ALS Environmental
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www.alsglobal.com

November 22, 2021

Analytical Report for Service Request No: K2109142

Peg Wendling
Bellingham, City of
2221 Pacific Street
Bellingham, WA 98229

RE: Post. Pt. Scan

Dear Peg,

Enclosed are the results of the sample(s) submitted to our laboratory August 06, 2021
For your reference, these analyses have been assigned our service request number **K2109142.**

Analyses were performed according to our laboratory's NELAP-approved quality assurance program. The test results meet requirements of the current NELAP standards, where applicable, and except as noted in the laboratory case narrative provided. For a specific list of NELAP-accredited analytes, refer to the certifications section at www.alsglobal.com. All results are intended to be considered in their entirety, and ALS Group USA Corp. dba ALS Environmental (ALS) is not responsible for use of less than the complete report. Results apply only to the items submitted to the laboratory for analysis and individual items (samples) analyzed, as listed in the report.

Please contact me if you have any questions. My extension is 3377. You may also contact me via email at Sydney.Wolf@alsglobal.com.

Respectfully submitted,

ALS Group USA, Corp. dba ALS Environmental

for Sydney A. Wolf
Project Manager

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Acronyms

ASTM	American Society for Testing and Materials
A2LA	American Association for Laboratory Accreditation
CARB	California Air Resources Board
CAS Number	Chemical Abstract Service registry Number
CFC	Chlorofluorocarbon
CFU	Colony-Forming Unit
DEC	Department of Environmental Conservation
DEQ	Department of Environmental Quality
DHS	Department of Health Services
DOE	Department of Ecology
DOH	Department of Health
EPA	U. S. Environmental Protection Agency
ELAP	Environmental Laboratory Accreditation Program
GC	Gas Chromatography
GC/MS	Gas Chromatography/Mass Spectrometry
LOD	Limit of Detection
LOQ	Limit of Quantitation
LUFT	Leaking Underground Fuel Tank
M	Modified
MCL	Maximum Contaminant Level is the highest permissible concentration of a substance allowed in drinking water as established by the USEPA.
MDL	Method Detection Limit
MPN	Most Probable Number
MRL	Method Reporting Limit
NA	Not Applicable
NC	Not Calculated
NCASI	National Council of the Paper Industry for Air and Stream Improvement
ND	Not Detected
NIOSH	National Institute for Occupational Safety and Health
PQL	Practical Quantitation Limit
RCRA	Resource Conservation and Recovery Act
SIM	Selected Ion Monitoring
TPH	Total Petroleum Hydrocarbons
tr	Trace level is the concentration of an analyte that is less than the PQL but greater than or equal to the MDL.

Inorganic Data Qualifiers

*	The result is an outlier. See case narrative.
#	The control limit criteria is not applicable.
B	The analyte was found in the associated method blank at a level that is significant relative to the sample result as defined by the DOD or NELAC standards.
E	The result is an estimate amount because the value exceeded the instrument calibration range.
J	The result is an estimated value.
U	The analyte was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL. *DOD-QSM 4.2 definition* : Analyte was not detected and is reported as less than the LOD or as defined by the project. The detection limit is adjusted for dilution.
i	The MRL/MDL or LOQ/LOD is elevated due to a matrix interference.
X	See case narrative.
Q	See case narrative. One or more quality control criteria was outside the limits.
H	The holding time for this test is immediately following sample collection. The samples were analyzed as soon as possible after receipt by the laboratory.

Metals Data Qualifiers

#	The control limit criteria is not applicable.
J	The result is an estimated value.
E	The percent difference for the serial dilution was greater than 10%, indicating a possible matrix interference in the sample.
M	The duplicate injection precision was not met.
N	The Matrix Spike sample recovery is not within control limits. See case narrative.
S	The reported value was determined by the Method of Standard Additions (MSA).
U	The analyte was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL. *DOD-QSM 4.2 definition* : Analyte was not detected and is reported as less than the LOD or as defined by the project. The detection limit is adjusted for dilution.
W	The post-digestion spike for furnace AA analysis is out of control limits, while sample absorbance is less than 50% of spike absorbance.
i	The MRL/MDL or LOQ/LOD is elevated due to a matrix interference.
X	See case narrative.
+	The correlation coefficient for the MSA is less than 0.995.
Q	See case narrative. One or more quality control criteria was outside the limits.

Organic Data Qualifiers

*	The result is an outlier. See case narrative.
#	The control limit criteria is not applicable. See case narrative.
A	A tentatively identified compound, a suspected aldol-condensation product.
B	The analyte was found in the associated method blank at a level that is significant relative to the sample result as defined by the DOD or NELAC standards.
C	The analyte was qualitatively confirmed using GC/MS techniques, pattern recognition, or by comparing to historical data.
D	The reported result is from a dilution.
E	The result is an estimated value.
J	The result is an estimated value.
N	The result is presumptive. The analyte was tentatively identified, but a confirmation analysis was not performed.
P	The GC or HPLC confirmation criteria was exceeded. The relative percent difference is greater than 40% between the two analytical results.
U	The analyte was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL. *DOD-QSM 4.2 definition* : Analyte was not detected and is reported as less than the LOD or as defined by the project. The detection limit is adjusted for dilution.
i	The MRL/MDL or LOQ/LOD is elevated due to a chromatographic interference.
X	See case narrative.
Q	See case narrative. One or more quality control criteria was outside the limits.

Additional Petroleum Hydrocarbon Specific Qualifiers

F	The chromatographic fingerprint of the sample matches the elution pattern of the calibration standard.
L	The chromatographic fingerprint of the sample resembles a petroleum product, but the elution pattern indicates the presence of a greater amount of lighter molecular weight constituents than the calibration standard.
H	The chromatographic fingerprint of the sample resembles a petroleum product, but the elution pattern indicates the presence of a greater amount of heavier molecular weight constituents than the calibration standard.
O	The chromatographic fingerprint of the sample resembles an oil, but does not match the calibration standard.
Y	The chromatographic fingerprint of the sample resembles a petroleum product eluting in approximately the correct carbon range, but the elution pattern does not match the calibration standard.
Z	The chromatographic fingerprint does not resemble a petroleum product.

ALS Group USA Corp. dba ALS Environmental (ALS) - Kelso
State Certifications, Accreditations, and Licenses

Agency	Web Site	Number
Alaska DEH	http://dec.alaska.gov/eh/lab/cs/csapproval.htm	UST-040
Arizona DHS	http://www.azdhs.gov/lab/license/env.htm	AZ0339
Arkansas - DEQ	http://www.adeq.state.ar.us/techsvs/labcert.htm	88-0637
California DHS (ELAP)	http://www.cdph.ca.gov/certlic/labs/Pages/ELAP.aspx	2795
DOD ELAP	http://www.denix.osd.mil/edqw/Accreditation/AccreditedLabs.cfm	L16-58-R4
Florida DOH	http://www.doh.state.fl.us/lab/EnvLabCert/WaterCert.htm	E87412
Hawaii DOH	http://health.hawaii.gov/	-
ISO 17025	http://www.pjlabs.com/	L16-57
Louisiana DEQ	http://www.deq.louisiana.gov/page/la-lab-accreditation	03016
Maine DHS	http://www.maine.gov/dhhs/	WA01276
Minnesota DOH	http://www.health.state.mn.us/accreditation	053-999-457
Nevada DEP	http://ndep.nv.gov/bsdw/labservice.htm	WA01276
New Jersey DEP	http://www.nj.gov/dep/enforcement/oqa.html	WA005
New York - DOH	https://www.wadsworth.org/regulatory/elap	12060
North Carolina DEQ	https://deq.nc.gov/about/divisions/water-resources/water-resources-data/water-sciences-home-page/laboratory-certification-branch/non-field-lab-certification	605
Oklahoma DEQ	http://www.deq.state.ok.us/CSDnew/labcert.htm	9801
Oregon – DEQ (NELAP)	http://public.health.oregon.gov/LaboratoryServices/EnvironmentalLaboratoryAccreditation/Pages/index.aspx	WA100010
South Carolina DHEC	http://www.scdhec.gov/environment/EnvironmentalLabCertification/	61002
Texas CEQ	http://www.tceq.texas.gov/field/qa/env_lab_accreditation.html	T104704427
Washington DOE	http://www.ecy.wa.gov/programs/eap/labs/lab-accreditation.html	C544
Wyoming (EPA Region 8)	https://www.epa.gov/region8-waterops/epa-region-8-certified-drinking-water-	-
Kelso Laboratory Website	www.alsglobal.com	NA

Analyses were performed according to our laboratory's NELAP-approved quality assurance program. A complete listing of specific NELAP-certified analytes, can be found in the certification section at www.ALSGlobal.com or at the accreditation bodies web site.
Please refer to the certification and/or accreditation body's web site if samples are submitted for compliance purposes. The states highlighted above, require the analysis be listed on the state certification if used for compliance purposes and if the method/anlayte is offered by that state.

Case Narrative

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1317 South 13th Ave, Kelso, WA 98626 | 1-360-577-7222 | www.alsglobal.com

Client: Bellingham, City of
Project: Post. Pt. Scan
Sample Matrix: Soil, Water

Service Request: K2109142
Date Received: 08/06/2021

CASE NARRATIVE

All analyses were performed consistent with the quality assurance program of ALS Environmental. This report contains analytical results for samples for the Tier level IV requested by the client.

Sample Receipt:

Two soil, water samples were received for analysis at ALS Environmental on 08/06/2021. Any discrepancies upon initial sample inspection are annotated on the sample receipt and preservation form included within this report. The samples were stored at minimum in accordance with the analytical method requirements.

Semivolatiles by GC/MS:

Method 8270D, 08/24/2021:The internal standard recovery of Chrysene-d12 and Perylene-d12 in sample Incin. Feed was outside control criteria because of suspected matrix interference. The results quantified using this internal standard were flagged to indicate the problem.

Method 8270D, 08/24/2021:The control criteria were exceeded for Fluoranthene-d10 in sample Incin. Feed due to suspected matrix interference. No further corrective action was appropriate.

Subcontracted Analytical Parameters:

Microplastics fluorescence and microscopy
The analysis was performed at ALS Cincinnati, Ohio Laboratory. The data for this analysis is included in the corresponding section of this report.
Dioxins and Furans by EPA Method 1613B
The analysis for Dioxins and Furans was performed at ALS Burlington, Ontario Laboratory. The data for this analysis is included in the corresponding section of this report.
PCB Congeners by EPA Method 1668C
The analysis for PCB Congeners was performed at ALS Burlington, Ontario Laboratory. The data for this analysis is included in the corresponding section of this report.
PBDE
The analysis for PBDE was performed at ALS Burlington, Ontario Laboratory. The data for this analysis is included in the corresponding section of this report.

Organic LC:

Method PFC/537M, 09/14/2021:The lower control criterion was exceeded for 13C2-PFTeDA in sample Final Effluent due to matrix interferences. Due to the presence of non-target background components that affected resolution of the surrogate, accurate quantitation was not optimal. Assuming the associated native analytes (Perfluorotridecanoic acid (PFTrDA) and Perfluorotetradecanoic acid (PFTeDA)) performed similar to the labeled analog, the effect on the reported results was minimal. A re-analysis of the sample was performed, but produced similar results. The results from the original analysis were reported. No further corrective action was taken.

Method PFC/537M, 09/14/2021:The upper control criterion was exceeded for one or more surrogates in sample Incin. Feed. The associated native analytes were not detected above the Method Reporting Limit (MRL) in this sample. The error associated with an elevated recovery equated to a high bias. Assuming the native analytes performed similar to the labeled analogs, the effect on the reported results was minimal. The quality of the sample data was not significantly affected. No further corrective action was appropriate.

Method PFC/537M, 09/14/2021:The lower control criterion was exceeded for 13C8-FOSA, D3-MeFOSA, D5-EtFOSA, and D7-MeFOSE in sample Incin. Feed due to matrix interferences. Due to the presence of non-target background components that

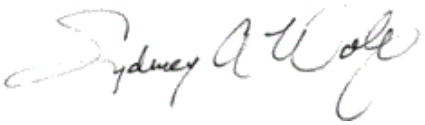
Approved by Sydney A Wolfe Date 11/22/2021

affected resolution of the surrogate, accurate quantitation was not optimal. Assuming the associated native analytes (Perfluorotridecanoic acid (PFTrDA) and Perfluorotetradecanoic acid (PFTeDA)) performed similar to the labeled analog, the effect on the reported results was minimal. The low recoveries are confirmed in the MS/DMS analysis of this sample. No further corrective action was taken.

Method PFC/537M, 08/23/2021:The control criteria were exceeded for one or more surrogates in Lab Control Sample LCS KQ2115525-03. The associated matrix spike recoveries of target compounds were in control, indicating the analysis was in control. The surrogate outlier was flagged accordingly. No further corrective action was appropriate.
Method PFC/537M, 08/28/2021:The matrix spike recovery of one or more analytes for sample Incin. Feed was outside control criteria. Recovery in the Laboratory Control Sample (LCS) was acceptable, which indicated the analytical batch was in control. The matrix spike outlier suggested a potential bias in this matrix. No further corrective action was appropriate.

Method PFC/537M, 08/28/2021:Insufficient sample volume was received to perform a Matrix Spike/Matrix Spike Duplicate (MS/MSD). A Laboratory Control Sample/Duplicate Laboratory Control Sample (LCS/DLCS) was analyzed and reported in lieu of the MS/MSD for these samples.

Method PFC/537M, 08/28/2021:The control criteria was exceeded for one or more surrogates in Continuing Calibration Verification (CCV) KQ2117883-01. The recoveries of the associated native analytes were within control criteria, which indicated the analysis was in control. No further corrective action was appropriate.

Approved by  Date 11/22/2021

Chain of Custody

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ALS Environmental

CHAIN OF CUSTODY
118610

001, 002

SR# R2109142

COC Set____of____

COC#_____

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Project Name: Post. Pt. Scan	Project Number:
Project Manager: Peg Wendling	
Company: City of Bellingham	
Address: 200 McKenzie Ave.	
Phone #: (360) 778-7870	email:
Sampler Signature:	Sampler Printed Name:

CLIENT SAMPLE ID	LABID	SAMPLING Date	Time	Matrix	NUMBER OF CONTAINERS	7D: 8270D / PAH SIM	14D: 8270D / PAH SIM	28D: PFC/537M / PFAS	365D: 1613B / Dioxins Furans	365D: 1668C / Cl Biphen Cong	999D: 160.3 Modified / TS	999D: None / Misc Out 1	999D: None / Misc Out 2	T	P	B	A	S	Remarks
1. Final Effluent	-001	8/4/21	24:00	W	1							X							Samples are 24-hr composites
2. Final Effluent				W	2			X											
3. Final Effluent				W	2	X													
4. Final Effluent				W	4				X	X									
5. Incin. Feed	-002			S	1		X				X								
6. Incin. Feed				S	1				X	X									
7. Incin. Feed				S	1			X											
8.																			
9.																			
10.																			

Report Requirements

- X I. Routine Report: Method Blank, Surrogate, as required
- ___ II. Report Dup., MS, MSD as required
- ___ III. CLP Like Summary (no raw data)
- ___ IV. Data Validation Report
- ___ V. EDD

Invoice Information

P.O.#_____

Bill To:_____

Turnaround Requirements

___ 24 hr. ___ 48 hr.
___ 5 Day
X Standard

Requested Report Date

Circle which metals are to be analyzed

Total Metals: Al As Sb Ba Be B Ca Cd Co Cr Cu Fe Pb Mg Mn Mo Ni K Ag Na Se Sr Tl Sn V Zn Hg

Dissolved Metals: Al As Sb Ba Be B Ca Cd Co Cr Cu Fe Pb Mg Mn Mo Ni K Ag Na Se Sr Tl Sn V Zn Hg

Special Instructions/Comments: Questions/issues? Contact Michelle Evans (360) 778-7870, until Peg returns on 8/24/21.

*Indicate State Hydrocarbon Procedure: AK CA WI Northwest Other_____(Circle One)

Relinquished By:	Received By:	Relinquished By:	Received By:	Relinquished By:	Received By:
Signature	Signature	Signature	Signature	Signature	Signature
Printed Name: Peg Wendling	Printed Name	Printed Name	Printed Name	Printed Name	Printed Name
Firm: City of Bellingham	Firm: 8/10/21 0900	Firm	Firm	Firm	Firm
Date/Time: 8/5/14 7 AM	Date/Time	Date/Time	Date/Time	Date/Time	Date/Time

PM SW

Cooler Receipt and Preservation Form

Client City of Bellingham Service Request K21 09142

Received: 8/16/21 Opened: 8/16/21 By: [signature] Unloaded: 8/16/21 By: [signature]

1. Samples were received via? *USPS* (*Fed Ex*) *UPS* *DHL* *PDX* *Courier* *Hand Delivered*
2. Samples were received in: (circle) (*Cooler*) *Box* *Envelope* *Other* _____ *NA*
3. Were custody seals on coolers? NA (Y) N If yes, how many and where? one, front
   If present, were custody seals intact? (Y) N If present, were they signed and dated? (Y) N
4. Was a Temperature Blank present in cooler? NA (Y) N If yes, notate the temperature in the appropriate column below:
   If no, take the temperature of a representative sample bottle contained within the cooler; notate in the column "Sample Temp":
5. Were samples received within the method specified temperature ranges? NA (Y) N
   If no, were they received on ice and same day as collected? If not, notate the cooler # below and notify the PM. (NA) Y N

If applicable, tissue samples were received: *Frozen* *Partially Thawed* *Thawed*

Temp Blank	Sample Temp	IR Gun	Cooler #/COC ID /(NA)	Out of temp indicate with "X"	PM Notified If out of temp	Tracking Number (NA)	Filed
4.1	—	IR01				2822 5757 2067	

6. Packing material: *Inserts* (*Baggies*) (*Bubble Wrap*) *Gel Packs* (*Wet Ice*) *Dry Ice* *Sleeves* _____
7. Were custody papers properly filled out (ink, signed, etc.)? NA (Y) N
8. Were samples received in good condition (unbroken) NA (Y) N
9. Were all sample labels complete (ie, analysis, preservation, etc.)? NA (Y) N
10. Did all sample labels and tags agree with custody papers? NA (Y) N
11. Were appropriate bottles/containers and volumes received for the tests indicated? NA (Y) N
12. Were the pH-preserved bottles (*see SMO GEN SOP*) received at the appropriate pH? *Indicate in the table below* (NA) Y N
13. Were VOA vials received without headspace? *Indicate in the table below.* (NA) Y N
14. Was C12/Res negative? NA (Y) N

Sample ID on Bottle	Sample ID on COC	Identified by:

Sample ID	Bottle Count Bottle Type	Head-space	Broke	pH	Reagent	Volume added	Reagent Lot Number	Initials	Time

Notes, Discrepancies, Resolutions: _____

Total Solids

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Analytical Report

Client:	Bellingham, City of	**Service Request:**	K2109142
Project:	Post. Pt. Scan	**Date Collected:**	08/5/21
Sample Matrix:	Soil	**Date Received:**	08/6/21
Analysis Method:	160.3 Modified	**Units:**	Percent
Prep Method:	None	**Basis:**	As Received

Solids, Total

Sample Name	Lab Code	Result	MRL	MDL	Dil.	Date Analyzed	Q
Incin. Feed	K2109142-002	**20.9**	-	-	1	08/27/21 16:35	

ALS Group USA, Corp.

dba ALS Environmental

QA/QC Report

Client:	Bellingham, City of	**Service Request:**	K2109142
Project	Post. Pt. Scan	**Date Collected:**	08/05/21
Sample Matrix:	Soil	**Date Received:**	08/06/21
		Date Analyzed:	08/27/21

Replicate Sample Summary
Inorganic Parameters

Sample Name:	Incin. Feed	**Units:**	Percent
Lab Code:	K2109142-002	**Basis:**	As Received

Analyte Name	Analysis Method	MRL	Sample Result	Duplicate Sample K2109142-002DUP Result	Average	RPD	RPD Limit
Solids, Total	160.3 Modified	-	20.9	20.6	20.8	1	20

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

Polycyclic Aromatic Hydrocarbons by GC/MS SIM

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Analytical Report

Client:	Bellingham, City of	**Service Request:**	K2109142
Project:	Post. Pt. Scan	**Date Collected:**	08/05/21
Sample Matrix:	Water	**Date Received:**	08/06/21 09:00
Sample Name:	Final Effluent	**Units:**	ug/L
Lab Code:	K2109142-001	**Basis:**	NA

Polycyclic Aromatic Hydrocarbons by GC/MS SIM

Analysis Method: 8270D
Prep Method: EPA 3511

Analyte Name	Result		MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
2-Methylnaphthalene	**0.0064**	**J**	0.020	0.0013	1	08/13/21 16:46	8/12/21	
Acenaphthene	**0.0082**	**J**	0.020	0.0012	1	08/13/21 16:46	8/12/21	
Acenaphthylene	**0.0021**	**J**	0.020	0.0011	1	08/13/21 16:46	8/12/21	
Anthracene	ND	U	0.020	0.00082	1	08/13/21 16:46	8/12/21	
Benz(a)anthracene	**0.0048**	**J**	0.020	0.00097	1	08/13/21 16:46	8/12/21	
Benzo(a)pyrene	ND	U	0.020	0.0011	1	08/13/21 16:46	8/12/21	
Benzo(b)fluoranthene	ND	U	0.020	0.00083	1	08/13/21 16:46	8/12/21	
Benzo(g,h,i)perylene	ND	U	0.020	0.00086	1	08/13/21 16:46	8/12/21	
Benzo(k)fluoranthene	ND	U	0.020	0.00094	1	08/13/21 16:46	8/12/21	
Chrysene	**0.0026**	**J**	0.020	0.00076	1	08/13/21 16:46	8/12/21	
Dibenz(a,h)anthracene	ND	U	0.020	0.0013	1	08/13/21 16:46	8/12/21	
Dibenzofuran	**0.0098**	**J**	0.020	0.00096	1	08/13/21 16:46	8/12/21	
Fluoranthene	**0.012**	**J**	0.020	0.00082	1	08/13/21 16:46	8/12/21	
Fluorene	**0.010**	**J**	0.020	0.0011	1	08/13/21 16:46	8/12/21	
Indeno(1,2,3-cd)pyrene	ND	U	0.020	0.00089	1	08/13/21 16:46	8/12/21	
Naphthalene	**0.014**	**J**	0.020	0.0014	1	08/13/21 16:46	8/12/21	
Phenanthrene	**0.024**		0.020	0.0011	1	08/13/21 16:46	8/12/21	
Pyrene	**0.036**		0.020	0.0010	1	08/13/21 16:46	8/12/21	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Fluoranthene-d10	78	42 - 133	08/13/21 16:46	
Fluorene-d10	95	42 - 131	08/13/21 16:46	
Terphenyl-d14	81	32 - 129	08/13/21 16:46	

Analytical Report

Client:	Bellingham, City of	**Service Request:**	K2109142
Project:	Post. Pt. Scan	**Date Collected:**	08/05/21
Sample Matrix:	Soil	**Date Received:**	08/06/21 13:25
Sample Name:	Incin. Feed	**Units:**	ug/Kg
Lab Code:	K2109142-002	**Basis:**	Dry

Polycyclic Aromatic Hydrocarbons by GC/MS SIM

Analysis Method: 8270D
Prep Method: EPA 3546

Analyte Name	Result		MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
2-Methylnaphthalene	**28**		23	1.7	1	08/24/21 19:14	8/13/21	
Acenaphthene	**28**		23	1.4	1	08/24/21 19:14	8/13/21	
Acenaphthylene	ND	U	23	1.3	1	08/24/21 19:14	8/13/21	
Anthracene	**13**	**J**	23	1.4	1	08/24/21 19:14	8/13/21	
Benz(a)anthracene	**30**		23	1.1	1	08/24/21 19:14	8/13/21	*
Benzo(a)pyrene	**39**		23	1.8	1	08/24/21 19:14	8/13/21	*
Benzo(b)fluoranthene	**58**		23	1.8	1	08/24/21 19:14	8/13/21	*
Benzo(g,h,i)perylene	**15**	**J**	23	1.9	1	08/24/21 19:14	8/13/21	*
Benzo(k)fluoranthene	**6.9**	**J**	23	1.1	1	08/24/21 19:14	8/13/21	*
Chrysene	**33**		23	1.5	1	08/24/21 19:14	8/13/21	*
Dibenz(a,h)anthracene	ND	U	23	1.1	1	08/24/21 19:14	8/13/21	*
Dibenzofuran	**19**	**J**	23	2.8	1	08/24/21 19:14	8/13/21	
Fluoranthene	**50**		23	2.9	1	08/24/21 19:14	8/13/21	
Fluorene	**74**		23	2.6	1	08/24/21 19:14	8/13/21	
Indeno(1,2,3-cd)pyrene	**15**	**J**	23	1.7	1	08/24/21 19:14	8/13/21	*
Naphthalene	**39**		23	2.2	1	08/24/21 19:14	8/13/21	
Phenanthrene	**68**		23	2.7	1	08/24/21 19:14	8/13/21	
Pyrene	**120**		23	1.5	1	08/24/21 19:14	8/13/21	*

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Fluoranthene-d10	24	38 - 104	08/24/21 19:14	*
Fluorene-d10	39	39 - 109	08/24/21 19:14	
Terphenyl-d14	42	38 - 113	08/24/21 19:14	

Analytical Report

Client:	Bellingham, City of	**Service Request:**	K2109142
Project:	Post. Pt. Scan	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Method Blank	**Units:**	ug/L
Lab Code:	KQ2115373-03	**Basis:**	NA

Polycyclic Aromatic Hydrocarbons by GC/MS SIM

Analysis Method: 8270D
Prep Method: EPA 3511

Analyte Name	Result		MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
2-Methylnaphthalene	**0.0017**	**J**	0.020	0.0013	1	08/13/21 11:24	8/12/21	
Acenaphthene	ND	U	0.020	0.0012	1	08/13/21 11:24	8/12/21	
Acenaphthylene	ND	U	0.020	0.0011	1	08/13/21 11:24	8/12/21	
Anthracene	ND	U	0.020	0.00082	1	08/13/21 11:24	8/12/21	
Benz(a)anthracene	ND	U	0.020	0.00097	1	08/13/21 11:24	8/12/21	
Benzo(a)pyrene	ND	U	0.020	0.0011	1	08/13/21 11:24	8/12/21	
Benzo(b)fluoranthene	ND	U	0.020	0.00083	1	08/13/21 11:24	8/12/21	
Benzo(g,h,i)perylene	ND	U	0.020	0.00086	1	08/13/21 11:24	8/12/21	
Benzo(k)fluoranthene	ND	U	0.020	0.00094	1	08/13/21 11:24	8/12/21	
Chrysene	ND	U	0.020	0.00076	1	08/13/21 11:24	8/12/21	
Dibenz(a,h)anthracene	ND	U	0.020	0.0013	1	08/13/21 11:24	8/12/21	
Dibenzofuran	ND	U	0.020	0.00096	1	08/13/21 11:24	8/12/21	
Fluoranthene	ND	U	0.020	0.00082	1	08/13/21 11:24	8/12/21	
Fluorene	ND	U	0.020	0.0011	1	08/13/21 11:24	8/12/21	
Indeno(1,2,3-cd)pyrene	ND	U	0.020	0.00089	1	08/13/21 11:24	8/12/21	
Naphthalene	**0.0024**	**J**	0.020	0.0014	1	08/13/21 11:24	8/12/21	
Phenanthrene	**0.0021**	**J**	0.020	0.0011	1	08/13/21 11:24	8/12/21	
Pyrene	ND	U	0.020	0.0010	1	08/13/21 11:24	8/12/21	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Fluoranthene-d10	87	42 - 133	08/13/21 11:24	
Fluorene-d10	90	42 - 131	08/13/21 11:24	
Terphenyl-d14	75	32 - 129	08/13/21 11:24	

Analytical Report

Client:	Bellingham, City of	**Service Request:**	K2109142
Project:	Post. Pt. Scan	**Date Collected:**	NA
Sample Matrix:	Soil	**Date Received:**	NA
Sample Name:	Method Blank	**Units:**	ug/Kg
Lab Code:	KQ2115593-06	**Basis:**	Dry

Polycyclic Aromatic Hydrocarbons by GC/MS SIM

Analysis Method: 8270D
Prep Method: EPA 3546

Analyte Name	Result		MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
2-Methylnaphthalene	**0.61**	**J**	4.6	0.37	1	08/24/21 15:11	8/13/21	
Acenaphthene	**1.5**	**J**	4.6	0.30	1	08/24/21 15:11	8/13/21	
Acenaphthylene	ND	U	4.6	0.28	1	08/24/21 15:11	8/13/21	
Anthracene	**0.62**	**J**	4.6	0.29	1	08/24/21 15:11	8/13/21	
Benz(a)anthracene	ND	U	4.6	0.23	1	08/24/21 15:11	8/13/21	
Benzo(a)pyrene	ND	U	4.6	0.38	1	08/24/21 15:11	8/13/21	
Benzo(b)fluoranthene	ND	U	4.6	0.38	1	08/24/21 15:11	8/13/21	
Benzo(g,h,i)perylene	ND	U	4.6	0.40	1	08/24/21 15:11	8/13/21	
Benzo(k)fluoranthene	ND	U	4.6	0.24	1	08/24/21 15:11	8/13/21	
Chrysene	ND	U	4.6	0.31	1	08/24/21 15:11	8/13/21	
Dibenz(a,h)anthracene	ND	U	4.6	0.23	1	08/24/21 15:11	8/13/21	
Dibenzofuran	ND	U	4.6	0.60	1	08/24/21 15:11	8/13/21	
Fluoranthene	ND	U	4.6	0.63	1	08/24/21 15:11	8/13/21	
Fluorene	**1.2**	**J**	4.6	0.57	1	08/24/21 15:11	8/13/21	
Indeno(1,2,3-cd)pyrene	ND	U	4.6	0.36	1	08/24/21 15:11	8/13/21	
Naphthalene	**1.5**	**J**	4.6	0.47	1	08/24/21 15:11	8/13/21	
Phenanthrene	**2.8**	**J**	4.6	0.59	1	08/24/21 15:11	8/13/21	
Pyrene	**1.1**	**J**	4.6	0.32	1	08/24/21 15:11	8/13/21	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Fluoranthene-d10	77	38 - 104	08/24/21 15:11	
Fluorene-d10	80	39 - 109	08/24/21 15:11	
Terphenyl-d14	112	38 - 113	08/24/21 15:11	

Client: Bellingham, City of **Service Request:** K2109142
Project: Post. Pt. Scan
Sample Matrix: Water

SURROGATE RECOVERY SUMMARY
Polycyclic Aromatic Hydrocarbons by GC/MS SIM

Analysis Method: 8270D
Extraction Method: EPA 3511

Sample Name	Lab Code	Fluoranthene-d10 42-133	Fluorene-d10 42-131	Terphenyl-d14 32-129
Final Effluent	K2109142-001	78	95	81
Method Blank	KQ2115373-03	87	90	75
Lab Control Sample	KQ2115373-01	92	94	78
Duplicate Lab Control Sample	KQ2115373-02	88	88	80

Client: Bellingham, City of **Service Request:** K2109142
Project: Post. Pt. Scan
Sample Matrix: Soil

SURROGATE RECOVERY SUMMARY
Polycyclic Aromatic Hydrocarbons by GC/MS SIM

Analysis Method: 8270D
Extraction Method: EPA 3511

Sample Name	Lab Code	Fluoranthene-d10 38-104	Fluorene-d10 39-109	Terphenyl-d14 38-113
Incin. Feed	K2109142-002	24*	39	42
Method Blank	KQ2115593-06	77	80	112
Lab Control Sample	KQ2115593-05	72	71	73

Client: Bellingham, City of **Service Request:**K2109142
Project: Post. Pt. Scan **Date Analyzed:**08/13/21 10:58

Internal Standard Area and RT SUMMARY
Polycyclic Aromatic Hydrocarbons by GC/MS SIM

File ID: J:\MS14\DATA\081321\0813F002.D\ **Lab Code:**KQ2115583-02
Instrument ID: K-MS-14 **Analysis Lot:**735140
Analysis Method: 8270D **Signal ID:**1

		Acenaphthene-d10		Chrysene-d12		Naphthalene-d8	
		Area	**RT**	**Area**	**RT**	**Area**	**RT**
	Result ==>	23,784	6.10	41,980	9.76	45,077	4.49
	Upper Limit ==>	47,568	6.60	83,960	10.26	90,154	4.99
	Lower Limit ==>	11,892	5.60	20,990	9.26	22,539	3.99
Associated Analyses							
Method Blank	KQ2115373-03	28832	6.10	48323	9.76	51447	4.48
Lab Control Sample	KQ2115373-01	25542	6.10	44290	9.76	51902	4.48
Duplicate Lab Control Sample	KQ2115373-02	25250	6.10	44181	9.76	50809	4.48
Final Effluent	K2109142-001	24418	6.10	27541	9.76	48993	4.48

Client: Bellingham, City of **Service Request:**K2109142
Project: Post. Pt. Scan **Date Analyzed:**08/13/21 10:58

Internal Standard Area and RT SUMMARY
Polycyclic Aromatic Hydrocarbons by GC/MS SIM

File ID: J:\MS14\DATA\081321\0813F002.D\ **Lab Code:**KQ2115583-02
Instrument ID: K-MS-14 **Analysis Lot:**735140
Analysis Method: 8270D **Signal ID:**1

		Perylene-d12		Phenanthrene-d10	
		Area	**RT**	**Area**	**RT**
	Result ==>	49,084	12.54	47,120	7.34
	Upper Limit ==>	98,168	13.04	94,240	7.84
	Lower Limit ==>	24,542	12.04	23,560	6.84
Associated Analyses					
Method Blank	KQ2115373-03	57694	12.54	56700	7.34
Lab Control Sample	KQ2115373-01	50550	12.55	50997	7.34
Duplicate Lab Control Sample	KQ2115373-02	49627	12.54	50944	7.34
Final Effluent	K2109142-001	36761	12.54	42824	7.34

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QA/QC Report

Client: Bellingham, City of **Service Request:**K2109142
Project: Post. Pt. Scan **Date Analyzed:**08/24/21 14:41

Internal Standard Area and RT SUMMARY
Polycyclic Aromatic Hydrocarbons by GC/MS SIM

File ID: J:\MS14\DATA\082421\0824F002.D\ **Lab Code:**KQ2116621-02
Instrument ID: K-MS-14 **Analysis Lot:**736775
Analysis Method: 8270D **Signal ID:**1

		Acenaphthene-d10		Chrysene-d12		Naphthalene-d8	
		Area	**RT**	**Area**	**RT**	**Area**	**RT**
	Result ==>	21,698	6.09	42,694	9.75	41,024	4.48
	Upper Limit ==>	43,396	6.59	85,388	10.25	82,048	4.98
	Lower Limit ==>	10,849	5.59	21,347	9.25	20,512	3.98
Associated Analyses							
Method Blank	KQ2115593-06	26910	6.09	29994	9.75	45046	4.47
Lab Control Sample	KQ2115593-05	23632	6.09	39328	9.75	44906	4.46
Incin. Feed	K2109142-002	21279	6.09	18706*	9.75	41171	4.48

Client: Bellingham, City of **Service Request:**K2109142
Project: Post. Pt. Scan **Date Analyzed:**08/24/21 14:41

Internal Standard Area and RT SUMMARY
Polycyclic Aromatic Hydrocarbons by GC/MS SIM

File ID: J:\MS14\DATA\082421\0824F002.D\ **Lab Code:**KQ2116621-02
Instrument ID: K-MS-14 **Analysis Lot:**736775
Analysis Method: 8270D **Signal ID:**1

		Perylene-d12		Phenanthrene-d10	
		Area	**RT**	**Area**	**RT**
	Result ==>	49,214	12.52	43,223	7.33
	Upper Limit ==>	98,428	13.02	86,446	7.83
	Lower Limit ==>	24,607	12.02	21,612	6.83
Associated Analyses					
Method Blank	KQ2115593-06	30050	12.52	52330	7.33
Lab Control Sample	KQ2115593-05	45315	12.51	46750	7.33
Incin. Feed	K2109142-002	22409*	12.54	35519	7.33

Client:	Bellingham, City of	**Service Request:**	K2109142
Project:	Post. Pt. Scan	**Date Analyzed:**	08/24/21
Sample Matrix:	Soil	**Date Extracted:**	08/13/21

Lab Control Sample Summary
Polycyclic Aromatic Hydrocarbons by GC/MS SIM

Analysis Method:	8270D	**Units:**	ug/Kg
Prep Method:	EPA 3546	**Basis:**	Dry
		Analysis Lot:	736775

Lab Control Sample
KQ2115593-05

Analyte Name	Result	Spike Amount	% Rec	% Rec Limits
2-Methylnaphthalene	425	500	85	43-92
Acenaphthene	401	500	80	44-95
Acenaphthylene	408	500	82	44-93
Anthracene	478	500	96	46-100
Benz(a)anthracene	450	500	90	52-105
Benzo(a)pyrene	458	500	92	52-111
Benzo(b)fluoranthene	473	500	95	52-114
Benzo(g,h,i)perylene	393	500	79	45-107
Benzo(k)fluoranthene	472	500	94	52-112
Chrysene	443	500	89	51-110
Dibenz(a,h)anthracene	370	500	74	44-110
Dibenzofuran	413	500	83	44-96
Fluoranthene	427	500	85	49-102
Fluorene	416	500	83	45-98
Indeno(1,2,3-cd)pyrene	487	500	97	44-117
Naphthalene	390	500	78	42-88
Phenanthrene	400	500	80	41-99
Pyrene	443	500	89	48-104

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QA/QC Report

Client:	Bellingham, City of	**Service Request:**	K2109142
Project:	Post. Pt. Scan	**Date Analyzed:**	08/13/21
Sample Matrix:	Water	**Date Extracted:**	08/12/21

Duplicate Lab Control Sample Summary
Polycyclic Aromatic Hydrocarbons by GC/MS SIM

Analysis Method:	8270D	**Units:**	ug/L
Prep Method:	EPA 3511	**Basis:**	NA
		Analysis Lot:	735140

	Lab Control Sample KQ2115373-01			Duplicate Lab Control Sample KQ2115373-02					
Analyte Name	**Result**	**Spike Amount**	**% Rec**	**Result**	**Spike Amount**	**% Rec**	**% Rec Limits**	**RPD**	**RPD Limit**
2-Methylnaphthalene	2.57	2.78	92	2.43	2.78	87	48-120	5	30
Acenaphthene	2.67	2.78	96	2.54	2.78	92	63-121	5	30
Acenaphthylene	2.73	2.78	98	2.60	2.78	94	58-124	5	30
Anthracene	3.16	2.78	114	3.00	2.78	108	68-127	5	30
Benz(a)anthracene	2.82	2.78	102	2.73	2.78	98	74-124	3	30
Benzo(a)pyrene	2.90	2.78	105	2.82	2.78	102	75-131	3	30
Benzo(b)fluoranthene	2.94	2.78	106	2.88	2.78	104	73-136	2	30
Benzo(g,h,i)perylene	2.73	2.78	98	2.70	2.78	97	63-127	1	30
Benzo(k)fluoranthene	2.90	2.78	104	2.81	2.78	101	74-134	3	30
Chrysene	2.71	2.78	97	2.62	2.78	94	74-132	3	30
Dibenz(a,h)anthracene	2.92	2.78	105	2.89	2.78	104	59-135	1	30
Dibenzofuran	2.76	2.78	99	2.62	2.78	94	56-132	5	30
Fluoranthene	2.62	2.78	94	2.50	2.78	90	70-127	5	30
Fluorene	2.69	2.78	97	2.56	2.78	92	68-121	5	30
Indeno(1,2,3-cd)pyrene	3.15	2.78	113	3.09	2.78	111	63-136	2	30
Naphthalene	2.54	2.78	91	2.40	2.78	86	52-115	6	30
Phenanthrene	2.66	2.78	96	2.52	2.78	91	64-126	5	30
Pyrene	2.74	2.78	99	2.64	2.78	95	72-127	4	30

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QA/QC Report

Client:	Bellingham, City of	**Service Request:**	K2109142
Project:	Post. Pt. Scan	**Date Analyzed:**	08/13/21 11:24
Sample Matrix:	Water	**Date Extracted:**	08/12/21

Method Blank Summary
Polycyclic Aromatic Hydrocarbons by GC/MS SIM

Sample Name:	Method Blank	**Instrument ID:**	K-MS-14
Lab Code:	KQ2115373-03	**File ID:**	J:\MS14\DATA\081321\0813F003.D\
Analysis Method:	8270D	**Analysis Lot:**	735140
Prep Method:	EPA 3511	**Extraction Lot:**	385208

This Method Blank applies to the following analyses.

Sample Name	Lab Code	File ID	Date Analyzed
Lab Control Sample	KQ2115373-01	J:\MS14\DATA\081321\0813F004.D\	08/13/21 11:51
Duplicate Lab Control Sample	KQ2115373-02	J:\MS14\DATA\081321\0813F005.D\	08/13/21 12:18
Final Effluent	K2109142-001	J:\MS14\DATA\081321\0813F015.D\	08/13/21 16:46

Client:	Bellingham, City of	**Service Request:**	K2109142
Project:	Post. Pt. Scan	**Date Analyzed:**	08/24/21 15:11
Sample Matrix:	Soil	**Date Extracted:**	08/13/21

Method Blank Summary
Polycyclic Aromatic Hydrocarbons by GC/MS SIM

Sample Name:	Method Blank	**Instrument ID:**	K-MS-14
Lab Code:	KQ2115593-06	**File ID:**	J:\MS14\DATA\082421\0824F003.D\
Analysis Method:	8270D	**Analysis Lot:**	736775
Prep Method:	EPA 3546	**Extraction Lot:**	385361

This Method Blank applies to the following analyses.

Sample Name	Lab Code	File ID	Date Analyzed
Lab Control Sample	KQ2115593-05	J:\MS14\DATA\082421\0824F005.D\	08/24/21 16:04
Incin. Feed	K2109142-002	J:\MS14\DATA\082421\0824F011.D\	08/24/21 19:14

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QA/QC Report

Client:	Bellingham, City of	**Service Request:**	K2109142
Project:	Post. Pt. Scan	**Date Analyzed:**	08/13/21 11:51
Sample Matrix:	Water	**Date Extracted:**	08/12/21

Lab Control Sample Summary
Polycyclic Aromatic Hydrocarbons by GC/MS SIM

Sample Name:	Lab Control Sample	**Instrument ID:**	K-MS-14
Lab Code:	KQ2115373-01	**File ID:**	J:\MS14\DATA\081321\0813F004.D\
Analysis Method:	8270D	**Analysis Lot:**	735140
Prep Method:	EPA 3511	**Extraction Lot:**	385208

This Lab Control Sample applies to the following analyses.

Sample Name	Lab Code	File ID	Date Analyzed
Method Blank	KQ2115373-03	J:\MS14\DATA\081321\0813F003.D\	08/13/21 11:24
Duplicate Lab Control Sample	KQ2115373-02	J:\MS14\DATA\081321\0813F005.D\	08/13/21 12:18
Final Effluent	K2109142-001	J:\MS14\DATA\081321\0813F015.D\	08/13/21 16:46

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QA/QC Report

Client:	Bellingham, City of	**Service Request:**	K2109142
Project:	Post. Pt. Scan	**Date Analyzed:**	08/24/21 16:04
Sample Matrix:	Soil	**Date Extracted:**	08/13/21

Lab Control Sample Summary
Polycyclic Aromatic Hydrocarbons by GC/MS SIM

Sample Name:	Lab Control Sample	**Instrument ID:**	K-MS-14
Lab Code:	KQ2115593-05	**File ID:**	J:\MS14\DATA\082421\0824F005.D\
Analysis Method:	8270D	**Analysis Lot:**	736775
Prep Method:	EPA 3546	**Extraction Lot:**	385361

This Lab Control Sample applies to the following analyses.

Sample Name	Lab Code	File ID	Date Analyzed
Method Blank	KQ2115593-06	J:\MS14\DATA\082421\0824F003.D\	08/24/21 15:11
Incin. Feed	K2109142-002	J:\MS14\DATA\082421\0824F011.D\	08/24/21 19:14

Client: Bellingham, City of **Service Request:**K2109142
Project: Post. Pt. Scan **Date Analyzed:**08/13/21 10:31

Tune Summary
Polycyclic Aromatic Hydrocarbons by GC/MS SIM

File ID: J:\MS14\DATA\081321\0813F001.D\ **Analytical Method:** 8270D
Instrument ID: K-MS-14 **Analysis Lot:** 735140

Target Mass	Relative to Mass	Lower Limit %	Upper Limit %	Relative Abundance %	Raw Abundance	Result Pass/Fail
51	198	10	80	26.29	167296	Pass
68	69	0	2	1.77	3205	Pass
69	198	0	100	28.44	180992	Pass
70	69	0	2	0.56	1010	Pass
127	198	10	80	43.38	276096	Pass
197	198	0	2	0.44	2813	Pass
198	442	30	100	75.13	636416	Pass
199	198	5	9	6.75	42952	Pass
275	198	10	60	28.95	184256	Pass
365	442	1	50	4.12	34904	Pass
441	443	0.01	100	72.63	118712	Pass
442	442	30	100	100.00	847104	Pass
443	442	15	24	19.30	163456	Pass

Sample Name	Lab Code	File ID:	Date Analyzed:	Q
Continuing Calibration Verification	KQ2115583-02	J:\MS14\DATA\081321\0813F002.D\	08/13/21 10:58	
Method Blank	KQ2115373-03	J:\MS14\DATA\081321\0813F003.D\	08/13/21 11:24	
Lab Control Sample	KQ2115373-01	J:\MS14\DATA\081321\0813F004.D\	08/13/21 11:51	
Duplicate Lab Control Sample	KQ2115373-02	J:\MS14\DATA\081321\0813F005.D\	08/13/21 12:18	
Final Effluent	K2109142-001	J:\MS14\DATA\081321\0813F015.D\	08/13/21 16:46	

Client: Bellingham, City of **Service Request:**K2109142
Project: Post. Pt. Scan **Date Analyzed:**08/24/21 14:15

Tune Summary
Polycyclic Aromatic Hydrocarbons by GC/MS SIM

File ID: J:\MS14\DATA\082421\0824F001.D\ **Analytical Method:** 8270D
Instrument ID: K-MS-14 **Analysis Lot:** 736775

Target Mass	Relative to Mass	Lower Limit %	Upper Limit %	Relative Abundance %	Raw Abundance	Result Pass/Fail
51	198	10	80	24.57	142400	Pass
68	69	0	2	1.50	2422	Pass
69	198	0	100	27.90	161700	Pass
70	69	0	2	0.61	985	Pass
127	198	10	80	43.56	252416	Pass
197	198	0	2	0.45	2592	Pass
198	442	30	100	67.73	579520	Pass
199	198	5	9	7.14	41384	Pass
275	198	10	60	30.46	176512	Pass
365	442	1	50	4.06	34728	Pass
441	443	0.01	100	65.69	113600	Pass
442	442	30	100	100.00	855680	Pass
443	442	15	24	20.21	172928	Pass

Sample Name	Lab Code	File ID:	Date Analyzed:	Q
Continuing Calibration Verification	KQ2116621-02	J:\MS14\DATA\082421\0824F002.D\	08/24/21 14:41	
Method Blank	KQ2115593-06	J:\MS14\DATA\082421\0824F003.D\	08/24/21 15:11	
Lab Control Sample	KQ2115593-05	J:\MS14\DATA\082421\0824F005.D\	08/24/21 16:04	
Incin. Feed	K2109142-002	J:\MS14\DATA\082421\0824F011.D\	08/24/21 19:14	

Client: Bellingham, City of **Service Request:** K2109142
Project: Post. Pt. Scan **Calibration Date:** 7/26/2021

Initial Calibration Summary
Polycyclic Aromatic Hydrocarbons by GC/MS SIM

Calibration ID: KC2100398 **Signal ID:** 1
Instrument ID: K-MS-14

#	Lab Code	Sample Name	File Location	Acquisition Date
01	KC2100398-01	SIM-PAH @ .002ug/mL | SVM66-41A	J:\MS14\DATA\072621\0726F013.D	07/26/2021 18:31
02	KC2100398-02	SIM-PAH @ .004ug/mL | SVM66-41B	J:\MS14\DATA\072621\0726F014.D	07/26/2021 18:58
03	KC2100398-03	SIM-PAH @ .008ug/mL | SVM66-41C	J:\MS14\DATA\072621\0726F015.D	07/26/2021 19:24
04	KC2100398-04	SIM-PAH @ .02ug/mL | SVM66-41D	J:\MS14\DATA\072621\0726F016.D	07/26/2021 19:51
05	KC2100398-05	SIM-PAH @ .1ug/mL | SVM66-41E	J:\MS14\DATA\072621\0726F017.D	07/26/2021 20:18
06	KC2100398-06	SIM-PAH @ .2ug/mL | SVM66-41F	J:\MS14\DATA\072621\0726F018.D	07/26/2021 20:44
07	KC2100398-07	SIM-PAH @ .4ug/mL | SVM66-41G	J:\MS14\DATA\072621\0726F019.D	07/26/2021 21:11
08	KC2100398-08	SIM-PAH @ 1.0ug/mL | SVM66-41H	J:\MS14\DATA\072621\0726F020.D	07/26/2021 21:37
09	KC2100398-09	SIM-PAH @ 1.6ug/mL | SVM66-41I	J:\MS14\DATA\072621\0726F021.D	07/26/2021 22:04
10	KC2100398-10	SIM-PAH @ 2.0ug/mL | SVM66-41J	J:\MS14\DATA\072621\0726F022.D	07/26/2021 22:31

Analyte

2-Methylnaphthalene

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	2.000	0.7085	02	4.000	0.6891	03	8.000	0.7007	04	20.000	0.6959
05	100.000	0.6664	06	200.000	0.6448	07	400.000	0.627	08	1000.000	0.5795
09	1600.000	0.5647	10	2000.000	0.5563						

Acenaphthene

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	2.000	1.201	02	4.000	1.246	03	8.000	1.238	04	20.000	1.231
05	100.000	1.221	06	200.000	1.214	07	400.000	1.24	08	1000.000	1.204
09	1600.000	1.187	10	2000.000	1.176						

Acenaphthylene

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	2.000	1.884	02	4.000	1.878	03	8.000	1.889	04	20.000	1.871
05	100.000	1.932	06	200.000	1.955	07	400.000	2.017	08	1000.000	1.997
09	1600.000	1.949	10	2000.000	1.915						

Anthracene

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	2.000	0.9354	02	4.000	0.9485	03	8.000	0.9488	04	20.000	0.9409
05	100.000	0.9731	06	200.000	0.9985	07	400.000	1.007	08	1000.000	0.9783
09	1600.000	0.9601	10	2000.000	0.9308						

Benz(a)anthracene

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	2.000	1.638	02	4.000	1.53	03	8.000	1.413	04	20.000	1.367
05	100.000	1.379	06	200.000	1.453	07	400.000	1.507	08	1000.000	1.538
09	1600.000	1.545	10	2000.000	1.513						

Client: Bellingham, City of
Project: Post. Pt. Scan

Service Request: K2109142
Calibration Date: 7/26/2021

Initial Calibration Summary
Polycyclic Aromatic Hydrocarbons by GC/MS SIM

Calibration ID: KC2100398
Instrument ID: K-MS-14

Signal ID: 1

Analyte

Benzo(a)pyrene

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	2.000	1.151	02	4.000	1.16	03	8.000	1.087	04	20.000	1.114
05	100.000	1.211	06	200.000	1.242	07	400.000	1.303	08	1000.000	1.297
09	1600.000	1.279	10	2000.000	1.249						

Benzo(b)fluoranthene

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	2.000	1.215	02	4.000	1.259	03	8.000	1.283	04	20.000	1.3
05	100.000	1.363	06	200.000	1.445	07	400.000	1.531	08	1000.000	1.506
09	1600.000	1.47	10	2000.000	1.435						

Benzo(g,h,i)perylene

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	2.000	1.358	02	4.000	1.316	03	8.000	1.319	04	20.000	1.361
05	100.000	1.373	06	200.000	1.402	07	400.000	1.449	08	1000.000	1.407
09	1600.000	1.368	10	2000.000	1.339						

Benzo(k)fluoranthene

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	2.000	1.066	02	4.000	1.195	03	8.000	1.162	04	20.000	1.225
05	100.000	1.344	06	200.000	1.386	07	400.000	1.427	08	1000.000	1.403
09	1600.000	1.367	10	2000.000	1.329						

Chrysene

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	2.000	1.348	02	4.000	1.408	03	8.000	1.381	04	20.000	1.38
05	100.000	1.396	06	200.000	1.4	07	400.000	1.43	08	1000.000	1.415
09	1600.000	1.417	10	2000.000	1.397						

Dibenz(a,h)anthracene

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	2.000	1.008	02	4.000	1.014	03	8.000	1.081	04	20.000	1.098
05	100.000	1.234	06	200.000	1.254	07	400.000	1.318	08	1000.000	1.312
09	1600.000	1.29	10	2000.000	1.263						

Dibenzofuran

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	2.000	1.759	02	4.000	1.765	03	8.000	1.752	04	20.000	1.785
05	100.000	1.778	06	200.000	1.778	07	400.000	1.816	08	1000.000	1.788
09	1600.000	1.758	10	2000.000	1.808						

Fluoranthene

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	2.000	1.239	02	4.000	1.307	03	8.000	1.303	04	20.000	1.317
05	100.000	1.374	06	200.000	1.376	07	400.000	1.392	08	1000.000	1.318
09	1600.000	1.292	10	2000.000	1.258						

Client: Bellingham, City of
Project: Post. Pt. Scan

Service Request: K2109142
Calibration Date: 7/26/2021

Initial Calibration Summary
Polycyclic Aromatic Hydrocarbons by GC/MS SIM

Calibration ID: KC2100398
Instrument ID: K-MS-14

Signal ID: 1

Analyte

Fluoranthene-d10

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	2.000	1.128	02	4.000	1.163	03	8.000	1.142	04	20.000	1.127
05	100.000	1.202	06	200.000	1.234	07	400.000	1.278	08	1000.000	1.253
09	1600.000	1.242	10	2000.000	1.213						

Fluorene

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	2.000	1.373	02	4.000	1.496	03	8.000	1.438	04	20.000	1.419
05	100.000	1.419	06	200.000	1.414	07	400.000	1.436	08	1000.000	1.385
09	1600.000	1.349	10	2000.000	1.338						

Fluorene-d10

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	2.000	1.254	02	4.000	1.194	03	8.000	1.173	04	20.000	1.199
05	100.000	1.199	06	200.000	1.208	07	400.000	1.233	08	1000.000	1.217
09	1600.000	1.197	10	2000.000	1.186						

Indeno(1,2,3-cd)pyrene

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	2.000	0.962	02	4.000	1.027	03	8.000	1.014	04	20.000	1.022
05	100.000	1.142	06	200.000	1.223	07	400.000	1.29	08	1000.000	1.287
09	1600.000	1.273	10	2000.000	1.251						

Naphthalene

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	2.000	0.9063	02	4.000	1.099	03	8.000	1.038	04	20.000	1.055
05	100.000	1.018	06	200.000	1.002	07	400.000	1.017	08	1000.000	0.9758
09	1600.000	0.9568	10	2000.000	0.9406						

Phenanthrene

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	2.000	1.175	02	4.000	1.211	03	8.000	1.166	04	20.000	1.172
05	100.000	1.142	06	200.000	1.132	07	400.000	1.161	08	1000.000	1.113
09	1600.000	1.096	10	2000.000	1.06						

Pyrene

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	2.000	1.532	02	4.000	1.556	03	8.000	1.549	04	20.000	1.555
05	100.000	1.545	06	200.000	1.558	07	400.000	1.573	08	1000.000	1.57
09	1600.000	1.562	10	2000.000	1.534						

Terphenyl-d14

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	2.000	1.083	02	4.000	1.052	03	8.000	1.045	04	20.000	1.042
05	100.000	1.046	06	200.000	1.05	07	400.000	1.082	08	1000.000	1.094
09	1600.000	1.103	10	2000.000	1.091						

Client: Bellingham, City of
Project: Post. Pt. Scan

Service Request: K2109142
Calibration Date: 7/26/2021

Initial Calibration Summary
Polycyclic Aromatic Hydrocarbons by GC/MS SIM

Calibration ID: KC2100398
Instrument ID: K-MS-14

Signal ID: 1

		Calibration Evaluation				Calibration Evaluation	
Analyte Name	Compound Type	Fit Type	Eval	Eval Result	Control Criteria	Average RRF	Minimum RRF
2-Methylnaphthalene	TRG	Average RF	% RSD	9.1	≤20	0.6433	0.40
Acenaphthene	TRG	Average RF	% RSD	1.9	≤20	1.216	0.90
Acenaphthylene	TRG	Average RF	% RSD	2.6	≤20	1.929	0.90
Anthracene	TRG	Average RF	% RSD	2.7	≤20	0.9621	0.70
Benz(a)anthracene	TRG	Average RF	% RSD	5.7	≤20	1.488	0.80
Benzo(a)pyrene	TRG	Average RF	% RSD	6.4	≤20	1.209	0.70
Benzo(b)fluoranthene	TRG	Average RF	% RSD	8.1	≤20	1.381	0.70
Benzo(g,h,i)perylene	TRG	Average RF	% RSD	3.0	≤20	1.369	0.50
Benzo(k)fluoranthene	TRG	Average RF	% RSD	9.3	≤20	1.29	0.70
Chrysene	TRG	Average RF	% RSD	1.7	≤20	1.397	0.70
Dibenz(a,h)anthracene	TRG	Average RF	% RSD	10.4	≤20	1.187	0.40
Dibenzofuran	TRG	Average RF	% RSD	1.2	≤20	1.779	0.80
Fluoranthene	TRG	Average RF	% RSD	3.8	≤20	1.318	0.60
Fluoranthene-d10	SURR	Average RF	% RSD	4.6	≤20	1.198	0.01
Fluorene	TRG	Average RF	% RSD	3.3	≤20	1.407	0.90
Fluorene-d10	SURR	Average RF	% RSD	2.0	≤20	1.206	0.01
Indeno(1,2,3-cd)pyrene	TRG	Average RF	% RSD	11.4	≤20	1.149	0.50
Naphthalene	TRG	Average RF	% RSD	5.7	≤20	1.001	0.70
Phenanthrene	TRG	Average RF	% RSD	3.9	≤20	1.143	0.70
Pyrene	TRG	Average RF	% RSD	0.9	≤20	1.553	0.60
Terphenyl-d14	SURR	Average RF	% RSD	2.2	≤20	1.069	0.01

Client: Bellingham, City of **Service Request:** K2109142
Project: Post. Pt. Scan **Calibration Date:** 7/26/2021

Initial Calibration Verification Summary
Polycyclic Aromatic Hydrocarbons by GC/MS SIM

Calibration ID: KC2100398 **Signal ID:** 1
Instrument ID: K-MS-14

#	Lab Code	Sample Name	File Location	Acquisition Date
11	KC2100398-11	SIM-PAH ICV @ 0.4ug/mL | SVM66 -12C	J:\MS14\DATA\072621\0726F023.D	07/26/2021 22:58

Analyte Name	Expected	Result	Average RF	SSV RF	% D	Criteria	Curve Fit
2-Methylnaphthalene	0.400	0.356	6.433E-1	5.729E-1	-10.947	±30	Average RF
Acenaphthene	0.400	0.354	1.216E0	1.075E0	-11.573	±30	Average RF
Acenaphthylene	0.400	0.390	1.929E0	1.879E0	-2.593	±30	Average RF
Anthracene	0.400	0.429	9.621E-1	1.031E0	7.14	±30	Average RF
Benz(a)anthracene	0.400	0.323	1.488E0	1.202E0	-19.245	±30	Average RF
Benzo(a)pyrene	0.400	0.398	1.209E0	1.204E0	-0.420	±30	Average RF
Benzo(b)fluoranthene	0.400	0.400	1.381E0	1.382E0	0.100	±30	Average RF
Benzo(g,h,i)perylene	0.400	0.376	1.369E0	1.289E0	-5.880	±30	Average RF
Benzo(k)fluoranthene	0.400	0.404	1.29E0	1.304E0	1.09	±30	Average RF
Chrysene	0.400	0.365	1.397E0	1.275E0	-8.745	±30	Average RF
Dibenz(a,h)anthracene	0.400	0.384	1.187E0	1.141E0	-3.890	±30	Average RF
Dibenzofuran	0.400	0.412	1.779E0	1.833E0	3.03	±30	Average RF
Fluoranthene	0.400	0.379	1.318E0	1.247E0	-5.375	±30	Average RF
Fluorene	0.400	0.372	1.407E0	1.308E0	-6.997	±30	Average RF
Indeno(1,2,3-cd)pyrene	0.400	0.422	1.149E0	1.213E0	5.53	±30	Average RF
Naphthalene	0.400	0.385	1.001E0	9.644E-1	-3.634	±30	Average RF
Phenanthrene	0.400	0.362	1.143E0	1.035E0	-9.416	±30	Average RF
Pyrene	0.400	0.355	1.553E0	1.38E0	-11.138	±30	Average RF

Analyte Name	Expected	Result	Average RF	SSV RF	% D	Criteria	Curve Fit
Fluoranthene-d10	0.400	0.430	1.198E0	1.287E0	7.45	±30	Average RF
Fluorene-d10	0.400	0.417	1.206E0	1.257E0	4.23	±30	Average RF
Terphenyl-d14	0.400	0.404	1.069E0	1.079E0	0.983	±30	Average RF

Client: Bellingham, City of
Project: Post. Pt. Scan

Service Request: K2109142
Date Analyzed: 08/13/21 10:58

Continuing Calibration Verification (CCV) Summary
Polycyclic Aromatic Hydrocarbons by GC/MS SIM

Analysis Method: 8270D
File ID: J:\MS14\DATA\081321\0813F002.D\
Signal ID: 1

Calibration Date: 7/26/2021
Calibration ID: KC2100398
Analysis Lot: 735140
Units: ng/mL

Analyte Name	Expected	Result	Average RF	CCV RF	% D	% Drift	Criteria	Curve Fit
2-Methylnaphthalene	400	434	0.6433	0.6981	8.5	NA	±20	Average RF
Acenaphthene	400	404	1.2156	1.2287	1.1	NA	±20	Average RF
Acenaphthylene	400	423	1.9287	2.0372	5.6	NA	±20	Average RF
Anthracene	400	468	0.9621	1.1256	17.0	NA	±20	Average RF
Benz(a)anthracene	400	417	1.4881	1.5521	4.3	NA	±20	Average RF
Benzo(a)pyrene	400	445	1.2093	1.3455	11.3	NA	±20	Average RF
Benzo(b)fluoranthene	400	443	1.3807	1.528	10.7	NA	±20	Average RF
Benzo(g,h,i)perylene	400	395	1.3692	1.3526	-1.2	NA	±20	Average RF
Benzo(k)fluoranthene	400	450	1.2905	1.453	12.6	NA	±20	Average RF
Chrysene	400	417	1.3972	1.4554	4.2	NA	±20	Average RF
Dibenz(a,h)anthracene	400	430	1.1871	1.2747	7.4	NA	±20	Average RF
Dibenzofuran	400	424	1.7788	1.8855	6.0	NA	±20	Average RF
Fluoranthene	400	414	1.3175	1.3631	3.5	NA	±20	Average RF
Fluorene	400	417	1.4068	1.4655	4.2	NA	±20	Average RF
Indeno(1,2,3-cd)pyrene	400	452	1.1491	1.2978	12.9	NA	±20	Average RF
Naphthalene	400	407	1.0008	1.0191	1.8	NA	±20	Average RF
Phenanthrene	400	406	1.1428	1.1605	1.5	NA	±20	Average RF
Pyrene	400	416	1.5535	1.6163	4.0	NA	±20	Average RF

Analyte Name	Expected	Result	Average RF	CCV RF	% D	% Drift	Criteria	Curve Fit
Fluoranthene-d10	400	425	1.1983	1.2739	6.3	NA	±20	Average RF
Fluorene-d10	400	426	1.2061	1.2847	6.5	NA	±20	Average RF
Terphenyl-d14	400	409	1.0687	1.0924	2.2	NA	±20	Average RF

Client: Bellingham, City of
Project: Post. Pt. Scan

Service Request: K2109142
Date Analyzed: 08/24/21 14:41

Continuing Calibration Verification (CCV) Summary
Polycyclic Aromatic Hydrocarbons by GC/MS SIM

Analysis Method: 8270D
File ID: J:\MS14\DATA\082421\0824F002.D\
Signal ID: 1

Calibration Date: 7/26/2021
Calibration ID: KC2100398
Analysis Lot: 736775
Units: ng/mL

Analyte Name	Expected	Result	Average RF	CCV RF	% D	% Drift	Criteria	Curve Fit
2-Methylnaphthalene	400	446	0.6433	0.7179	11.6	NA	±20	Average RF
Acenaphthene	400	414	1.2156	1.2581	3.5	NA	±20	Average RF
Acenaphthylene	400	429	1.9287	2.0682	7.2	NA	±20	Average RF
Anthracene	400	478	0.9621	1.1505	19.6	NA	±20	Average RF
Benz(a)anthracene	400	413	1.4881	1.5365	3.3	NA	±20	Average RF
Benzo(a)pyrene	400	434	1.2093	1.312	8.5	NA	±20	Average RF
Benzo(b)fluoranthene	400	445	1.3807	1.5351	11.2	NA	±20	Average RF
Benzo(g,h,i)perylene	400	388	1.3692	1.3275	-3.0	NA	±20	Average RF
Benzo(k)fluoranthene	400	448	1.2905	1.4437	11.9	NA	±20	Average RF
Chrysene	400	413	1.3972	1.4431	3.3	NA	±20	Average RF
Dibenz(a,h)anthracene	400	401	1.1871	1.1906	0.3	NA	±20	Average RF
Dibenzofuran	400	429	1.7788	1.9079	7.3	NA	±20	Average RF
Fluoranthene	400	448	1.3175	1.4756	12.0	NA	±20	Average RF
Fluorene	400	426	1.4068	1.4999	6.6	NA	±20	Average RF
Indeno(1,2,3-cd)pyrene	400	446	1.1491	1.28	11.4	NA	±20	Average RF
Naphthalene	400	418	1.0008	1.0464	4.6	NA	±20	Average RF
Phenanthrene	400	416	1.1428	1.1894	4.1	NA	±20	Average RF
Pyrene	400	404	1.5535	1.5676	0.9	NA	±20	Average RF

Analyte Name	Expected	Result	Average RF	CCV RF	% D	% Drift	Criteria	Curve Fit
Fluoranthene-d10	400	454	1.1983	1.3597	13.5	NA	±20	Average RF
Fluorene-d10	400	435	1.2061	1.312	8.8	NA	±20	Average RF
Terphenyl-d14	400	406	1.0687	1.0857	1.6	NA	±20	Average RF

Client: Bellingham, City of **Service Request:**K2109142
Project: Post. Pt. Scan

Analysis Run Log
Polycyclic Aromatic Hydrocarbons by GC/MS SIM

Analysis Method: **Analysis Lot:**735140
Instrument ID:K-MS-14

Raw Data File	Sample Name	Lab Code	Date Analyzed	Time Analyzed	Q
J:\MS14\DATA\081321\0813F001.D\	ZZZZZZZ	ZZZZZZZ	8/13/2021	10:31:00	
J:\MS14\DATA\081321\0813F002.D\	Continuing Calibration Verification	KQ2115583-02	8/13/2021	10:58:00	
J:\MS14\DATA\081321\0813F003.D\	Method Blank	KQ2115373-03	8/13/2021	11:24:00	
J:\MS14\DATA\081321\0813F004.D\	Lab Control Sample	KQ2115373-01	8/13/2021	11:51:00	
J:\MS14\DATA\081321\0813F005.D\	Duplicate Lab Control Sample	KQ2115373-02	8/13/2021	12:18:00	
J:\MS14\DATA\081321\0813F006.D\	ZZZZZZZ	ZZZZZZZ	8/13/2021	12:45:00	
J:\MS14\DATA\081321\0813F007.D\	ZZZZZZZ	ZZZZZZZ	8/13/2021	13:11:00	
J:\MS14\DATA\081321\0813F008.D\	ZZZZZZZ	ZZZZZZZ	8/13/2021	13:38:00	
J:\MS14\DATA\081321\0813F009.D\	ZZZZZZZ	ZZZZZZZ	8/13/2021	14:05:00	
J:\MS14\DATA\081321\0813F010.D\	ZZZZZZZ	ZZZZZZZ	8/13/2021	14:31:00	
J:\MS14\DATA\081321\0813F011.D\	ZZZZZZZ	ZZZZZZZ	8/13/2021	14:58:00	
J:\MS14\DATA\081321\0813F012.D\	ZZZZZZZ	ZZZZZZZ	8/13/2021	15:25:00	
J:\MS14\DATA\081321\0813F013.D\	ZZZZZZZ	ZZZZZZZ	8/13/2021	15:52:00	
J:\MS14\DATA\081321\0813F014.D\	ZZZZZZZ	ZZZZZZZ	8/13/2021	16:19:00	
J:\MS14\DATA\081321\0813F015.D\	Final Effluent	K2109142-001	8/13/2021	16:46:00	

Client: Bellingham, City of **Service Request:**K2109142
Project: Post. Pt. Scan

Analysis Run Log
Polycyclic Aromatic Hydrocarbons by GC/MS SIM

Analysis Method: **Analysis Lot:**736775
Instrument ID:K-MS-14

Raw Data File	Sample Name	Lab Code	Date Analyzed	Time Analyzed	Q
J:\MS14\DATA\082421\0824F001.D\	ZZZZZZZ	ZZZZZZZ	8/24/2021	14:15:00	
J:\MS14\DATA\082421\0824F002.D\	Continuing Calibration Verification	KQ2116621-02	8/24/2021	14:41:00	
J:\MS14\DATA\082421\0824F003.D\	Method Blank	KQ2115593-06	8/24/2021	15:11:00	
J:\MS14\DATA\082421\0824F005.D\	Lab Control Sample	KQ2115593-05	8/24/2021	16:04:00	
J:\MS14\DATA\082421\0824F009.D\	ZZZZZZZ	ZZZZZZZ	8/24/2021	18:20:00	
J:\MS14\DATA\082421\0824F010.D\	ZZZZZZZ	ZZZZZZZ	8/24/2021	18:47:00	
J:\MS14\DATA\082421\0824F011.D\	Incin. Feed	K2109142-002	8/24/2021	19:14:00	
J:\MS14\DATA\082421\0824F012.D\	ZZZZZZZ	ZZZZZZZ	8/24/2021	19:40:00	
J:\MS14\DATA\082421\0824F013.D\	ZZZZZZZ	ZZZZZZZ	8/24/2021	20:07:00	
J:\MS14\DATA\082421\0824F014.D\	ZZZZZZZ	ZZZZZZZ	8/24/2021	20:34:00	
J:\MS14\DATA\082421\0824F015.D\	ZZZZZZZ	ZZZZZZZ	8/24/2021	21:01:00	
J:\MS14\DATA\082421\0824F016.D\	ZZZZZZZ	ZZZZZZZ	8/24/2021	21:27:00	
J:\MS14\DATA\082421\0824F017.D\	ZZZZZZZ	ZZZZZZZ	8/24/2021	21:54:00	
J:\MS14\DATA\082421\0824F018.D\	ZZZZZZZ	ZZZZZZZ	8/24/2021	22:21:00	
J:\MS14\DATA\082421\0824F019.D\	ZZZZZZZ	ZZZZZZZ	8/24/2021	22:47:00	
J:\MS14\DATA\082421\0824F020.D\	ZZZZZZZ	ZZZZZZZ	8/24/2021	23:14:00	
J:\MS14\DATA\082421\0824F021.D\	ZZZZZZZ	ZZZZZZZ	8/24/2021	23:41:00	
J:\MS14\DATA\082421\0824F022.D\	ZZZZZZZ	ZZZZZZZ	8/25/2021	00:08:00	
J:\MS14\DATA\082421\0824F023.D\	ZZZZZZZ	ZZZZZZZ	8/25/2021	00:35:00	
J:\MS14\DATA\082421\0824F024.D\	ZZZZZZZ	ZZZZZZZ	8/25/2021	01:01:00	

Prep Summary Report

Client: Bellingham, City of
Service Request: K2109142
Project: Post. Pt. Scan
Sample Matrix: Water

Polycyclic Aromatic Hydrocarbons by GC/MS SIM

Prep Method: EPA 3511
Extraction Lot: 385208
Analytical Method: 8270D
Extraction Date: 08/12/21 18:06

Sample Name	Lab Code	Date Collected	Date Received	Sample Amount	Final Amount	Percent Solids
Final Effluent	K2109142-001	8/5/21	8/6/21	450 mL	2 mL	
Lab Control Sample	KQ2115373-01LCS	NA	NA	450 mL	2 mL	
Duplicate Lab Control Sample	KQ2115373-02DLCS	NA	NA	450 mL	2 mL	
Method Blank	KQ2115373-03MB	NA	NA	450 mL	2 mL	

Prep Summary Report

Client: Bellingham, City of **Service Request:** K2109142
Project: Post. Pt. Scan
Sample Matrix: Soil

Polycyclic Aromatic Hydrocarbons by GC/MS SIM

Prep Method: EPA 3546 **Extraction Lot:** 385361
Analytical Method: 8270D **Extraction Date:** 08/13/21 17:24

Sample Name	Lab Code	Date Collected	Date Received	Sample Amount	Final Amount	Percent Solids
Incin. Feed	K2109142-002	8/5/21	8/6/21	10.492 g	10 mL	20.9
Lab Control Sample	KQ2115593-05LCS	NA	NA	10.00 g	10 mL	
Method Blank	KQ2115593-06MB	NA	NA	10.8230 g	10 mL	

Per and Polyfluoroalkyl Substances (PFAS) by LC/MS/MS

ALS Environmental—Kelso Laboratory
1317 South 13th Avenue, Kelso, WA 98626
Phone (360)577-7222 Fax (360)636-1068
www.alsglobal.com

Analytical Report

Client:	Bellingham, City of	**Service Request:**	K2109142
Project:	Post. Pt. Scan	**Date Collected:**	08/05/21
Sample Matrix:	Water	**Date Received:**	08/06/21 09:00
Sample Name:	Final Effluent	**Units:**	ng/L
Lab Code:	K2109142-001	**Basis:**	NA

Per- and Polyfluoroalkyl Substances (PFAS) by LC/MS/MS

Analysis Method: PFC/537M
Prep Method: ALS SOP

Analyte Name	Result		MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Perfluoroalkyl Sulfonic Acids (PFSAs)								
Perfluorobutane sulfonic acid (PFBS)	ND	U	4.2	0.28	1	08/23/21 21:42	8/18/21	
Perfluorohexane sulfonic acid (PFHxS)	ND	U	4.2	1.3	1	08/23/21 21:42	8/18/21	
Perfluoroheptane sulfonic acid (PFHpS)	**1.1**	**J**	4.2	0.44	1	08/23/21 21:42	8/18/21	
Perfluorooctane sulfonic acid (PFOS)	**3.3**	**J**	4.2	0.44	1	08/23/21 21:42	8/18/21	
Perfluorodecane sulfonic acid (PFDS)	ND	U	4.2	0.30	1	08/23/21 21:42	8/18/21	
Perfluoroalkyl Carboxylic Acids (PFCAs)								
Perfluorobutanoic acid (PFBA)	**27**		4.2	0.40	1	08/23/21 21:42	8/18/21	
Perfluoropentanoic acid (PFPeA)	**6.0**		4.2	1.7	1	08/23/21 21:42	8/18/21	
Perfluorohexanoic acid (PFHxA)	**16**		9.2	8.8	1	08/23/21 21:42	8/18/21	
Perfluoroheptanoic acid (PFHpA)	**1.9**	**J**	4.2	0.63	1	08/23/21 21:42	8/18/21	
Perfluorooctanoic acid (PFOA)	**4.5**		1.7	0.35	1	08/23/21 21:42	8/18/21	
Perfluorononanoic acid (PFNA)	**1.3**	**J**	4.2	1.1	1	08/23/21 21:42	8/18/21	
Perfluorodecanoic acid (PFDA)	**1.2**	**J**	4.2	1.2	1	08/23/21 21:42	8/18/21	
Perfluoroundecanoic acid (PFUnDA)	ND	U	4.2	1.5	1	08/23/21 21:42	8/18/21	
Perfluorododecanoic acid (PFDoDA)	ND	U	4.2	1.3	1	08/23/21 21:42	8/18/21	
Perfluorotridecanoic acid (PFTrDA)	ND	U	4.2	1.3	1	08/23/21 21:42	8/18/21	
Perfluorotetradecanoic acid (PFTeDA)	ND	U	4.2	2.0	1	08/23/21 21:42	8/18/21	
Perfluoroalkyl Sulfonamido Substances								
Perfluorooctane sulfonamide (FOSA)	ND	U	4.2	0.52	1	08/23/21 21:42	8/18/21	
N-Methyl perfluorooctane sulfonamide (MeFOSA)	ND	U	4.2	0.46	1	08/23/21 21:42	8/18/21	
N-Ethyl perfluorooctane sulfonamide (EtFOSA)	ND	U	4.2	0.27	1	08/23/21 21:42	8/18/21	
N-Methyl perfluorooctane sulfonamidoethanol	ND	U	4.2	0.30	1	08/23/21 21:42	8/18/21	
N-Ethyl perfluorooctane sulfonamidoethanol	ND	U	4.2	0.13	1	08/23/21 21:42	8/18/21	
Fluorotelomer Sulfonic Acids (FTSAs)								
6:2 Fluorotelomer sulfonic acid (6:2 FTS)	**1.5**	**J**	4.2	0.55	1	08/23/21 21:42	8/18/21	
8:2 Fluorotelomer sulfonic acid (8:2 FTS)	**0.41**	**J**	4.2	0.15	1	08/23/21 21:42	8/18/21	

Analytical Report

Client:	Bellingham, City of	**Service Request:**	K2109142
Project:	Post. Pt. Scan	**Date Collected:**	08/05/21
Sample Matrix:	Water	**Date Received:**	08/06/21 09:00
Sample Name:	Final Effluent	**Units:**	ng/L
Lab Code:	K2109142-001	**Basis:**	NA

Per- and Polyfluoroalkyl Substances (PFAS) by LC/MS/MS

Analysis Method: PFC/537M
Prep Method: ALS SOP

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
13C3-PFBS	102	20 - 109	08/23/21 21:42	
18O2-PFHxS	87	26 - 122	08/23/21 21:42	
13C4-PFOS	82	25 - 121	08/23/21 21:42	
13C4-PFBA	85	27 - 124	08/23/21 21:42	
13C5-PFPeA	80	27 - 138	08/23/21 21:42	
13C2-PFHxA	81	28 - 132	08/23/21 21:42	
13C4-PFHpA	82	19 - 139	08/23/21 21:42	
13C4-PFOA	77	22 - 130	08/23/21 21:42	
13C5-PFNA	77	20 - 127	08/23/21 21:42	
13C2-PFDA	74	24 - 125	08/23/21 21:42	
13C2-PFUnDA	68	22 - 125	08/23/21 21:42	
13C2-PFDoDA	34	19 - 122	08/23/21 21:42	
13C2-PFTeDA	11	13 - 124	08/23/21 21:42	*
13C8-FOSA	59	18 - 109	08/23/21 21:42	
D3-MeFOSA	49	15 - 153	08/23/21 21:42	
D5-EtFOSA	42	25 - 107	08/23/21 21:42	
D7-MeFOSE	58	24 - 112	08/23/21 21:42	
D9-EtFOSE	54	19 - 109	08/23/21 21:42	
13C2-6:2 FTS	98	10 - 226	08/23/21 21:42	
13C2-8:2 FTS	95	10 - 202	08/23/21 21:42	

Analytical Report

Client:	Bellingham, City of	**Service Request:**	K2109142
Project:	Post. Pt. Scan	**Date Collected:**	08/05/21
Sample Matrix:	Soil	**Date Received:**	08/06/21 13:25
Sample Name:	Incin. Feed	**Units:**	ng/g
Lab Code:	K2109142-002	**Basis:**	Dry

Per- and Polyfluoroalkyl Substances (PFAS) by LC/MS/MS

Analysis Method: PFC/537M
Prep Method: ALS SOP

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Perfluoroalkyl Sulfonic Acids (PFSAs)							
Perfluorobutane sulfonic acid (PFBS)	ND U	4.5	1.0	1	09/14/21 14:45	8/31/21	
Perfluorohexane sulfonic acid (PFHxS)	ND U	4.5	1.4	1	09/14/21 14:45	8/31/21	
Perfluoroheptane sulfonic acid (PFHpS)	ND U	4.5	0.29	1	09/14/21 14:45	8/31/21	
Perfluorooctane sulfonic acid (PFOS)	**3.1 J**	4.5	0.59	1	09/14/21 14:45	8/31/21	
Perfluorodecane sulfonic acid (PFDS)	ND U	4.5	0.77	1	09/14/21 14:45	8/31/21	
Perfluoroalkyl Carboxylic Acids (PFCAs)							
Perfluorobutanoic acid (PFBA)	ND U	4.5	1.8	1	09/14/21 14:45	8/31/21	
Perfluoropentanoic acid (PFPeA)	ND U	4.5	0.95	1	09/14/21 14:45	8/31/21	
Perfluorohexanoic acid (PFHxA)	ND U	4.5	1.5	1	09/14/21 14:45	8/31/21	
Perfluoroheptanoic acid (PFHpA)	**8.3**	4.5	0.86	1	09/14/21 14:45	8/31/21	
Perfluorooctanoic acid (PFOA)	**0.62 J**	4.5	0.59	1	09/14/21 14:45	8/31/21	
Perfluorononanoic acid (PFNA)	ND U	4.5	1.5	1	09/14/21 14:45	8/31/21	
Perfluorodecanoic acid (PFDA)	**1.4 J**	4.5	1.2	1	09/14/21 14:45	8/31/21	
Perfluoroundecanoic acid (PFUnDA)	**0.86 J**	4.5	0.82	1	09/14/21 14:45	8/31/21	
Perfluorododecanoic acid (PFDoDA)	ND U	4.5	1.3	1	09/14/21 14:45	8/31/21	
Perfluorotridecanoic acid (PFTrDA)	ND U	4.5	0.95	1	09/14/21 14:45	8/31/21	
Perfluorotetradecanoic acid (PFTeDA)	ND U	4.5	0.82	1	09/14/21 14:45	8/31/21	
Perfluoroalkyl Sulfonamido Substances							
Perfluorooctane sulfonamide (FOSA)	**0.44 J**	4.5	0.31	1	09/14/21 14:45	8/31/21	
N-Methyl perfluorooctane sulfonamide (MeFOSA)	ND U	4.5	0.33	1	09/14/21 14:45	8/31/21	
N-Ethyl perfluorooctane sulfonamide (EtFOSA)	ND U	4.5	0.50	1	09/14/21 14:45	8/31/21	
N-Methyl perfluorooctane sulfonamidoethanol	**8.0**	4.5	0.25	1	09/14/21 14:45	8/31/21	
N-Ethyl perfluorooctane sulfonamidoethanol	ND U	4.5	0.40	1	09/14/21 14:45	8/31/21	
Fluorotelomer Sulfonic Acids (FTSAs)							
6:2 Fluorotelomer sulfonic acid (6:2 FTS)	ND U	4.5	0.68	1	09/14/21 14:45	8/31/21	
8:2 Fluorotelomer sulfonic acid (8:2 FTS)	**0.50 J**	4.5	0.14	1	09/14/21 14:45	8/31/21	

Analytical Report

Client:	Bellingham, City of	**Service Request:**	K2109142
Project:	Post. Pt. Scan	**Date Collected:**	08/05/21
Sample Matrix:	Soil	**Date Received:**	08/06/21 13:25
Sample Name:	Incin. Feed	**Units:**	ng/g
Lab Code:	K2109142-002	**Basis:**	Dry

Per- and Polyfluoroalkyl Substances (PFAS) by LC/MS/MS

Analysis Method: PFC/537M
Prep Method: ALS SOP

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
13C3-PFBS	114	33 - 109	09/14/21 14:45	*
18O2-PFHxS	130	36 - 120	09/14/21 14:45	*
13C4-PFOS	113	32 - 130	09/14/21 14:45	
13C4-PFBA	130	34 - 116	09/14/21 14:45	*
13C5-PFPeA	116	39 - 133	09/14/21 14:45	
13C2-PFHxA	121	32 - 136	09/14/21 14:45	
13C4-PFHpA	120	36 - 133	09/14/21 14:45	
13C4-PFOA	104	31 - 134	09/14/21 14:45	
13C5-PFNA	122	27 - 133	09/14/21 14:45	
13C2-PFDA	127	30 - 137	09/14/21 14:45	
13C2-PFUnDA	95	32 - 146	09/14/21 14:45	
13C2-PFDoDA	97	36 - 136	09/14/21 14:45	
13C2-PFTeDA	74	39 - 138	09/14/21 14:45	
13C8-FOSA	34	40 - 132	09/14/21 14:45	*
D3-MeFOSA	22	51 - 132	09/14/21 14:45	*
D5-EtFOSA	17	49 - 123	09/14/21 14:45	*
D7-MeFOSE	16	53 - 125	09/14/21 14:45	*
D9-EtFOSE	59	45 - 121	09/14/21 14:45	
13C2-6:2 FTS	199	30 - 140	09/14/21 14:45	*
13C2-8:2 FTS	242	9 - 171	09/14/21 14:45	*

Analytical Report

Client:	Bellingham, City of	**Service Request:**	K2109142
Project:	Post. Pt. Scan	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Method Blank	**Units:**	ng/L
Lab Code:	KQ2115525-04	**Basis:**	NA

Per- and Polyfluoroalkyl Substances (PFAS) by LC/MS/MS

Analysis Method: PFC/537M
Prep Method: ALS SOP

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Perfluoroalkyl Sulfonic Acids (PFSAs)							
Perfluorobutane sulfonic acid (PFBS)	ND U	5.0	0.28	1	08/23/21 19:05	8/18/21	
Perfluorohexane sulfonic acid (PFHxS)	ND U	5.0	1.3	1	08/23/21 19:05	8/18/21	
Perfluoroheptane sulfonic acid (PFHpS)	ND U	5.0	0.44	1	08/23/21 19:05	8/18/21	
Perfluorooctane sulfonic acid (PFOS)	ND U	5.0	0.44	1	08/23/21 19:05	8/18/21	
Perfluorodecane sulfonic acid (PFDS)	ND U	5.0	0.30	1	08/23/21 19:05	8/18/21	
Perfluoroalkyl Carboxylic Acids (PFCAs)							
Perfluorobutanoic acid (PFBA)	ND U	5.0	0.40	1	08/23/21 19:05	8/18/21	
Perfluoropentanoic acid (PFPeA)	ND U	5.0	1.7	1	08/23/21 19:05	8/18/21	
Perfluorohexanoic acid (PFHxA)	ND U	10	8.8	1	08/23/21 19:05	8/18/21	
Perfluoroheptanoic acid (PFHpA)	ND U	5.0	0.63	1	08/23/21 19:05	8/18/21	
Perfluorooctanoic acid (PFOA)	ND U	2.0	0.35	1	08/23/21 19:05	8/18/21	
Perfluorononanoic acid (PFNA)	ND U	5.0	1.1	1	08/23/21 19:05	8/18/21	
Perfluorodecanoic acid (PFDA)	ND U	5.0	1.2	1	08/23/21 19:05	8/18/21	
Perfluoroundecanoic acid (PFUnDA)	ND U	5.0	1.5	1	08/23/21 19:05	8/18/21	
Perfluorododecanoic acid (PFDoDA)	ND U	5.0	1.3	1	08/23/21 19:05	8/18/21	
Perfluorotridecanoic acid (PFTrDA)	ND U	5.0	1.3	1	08/23/21 19:05	8/18/21	
Perfluorotetradecanoic acid (PFTeDA)	ND U	5.0	2.0	1	08/23/21 19:05	8/18/21	
Perfluoroalkyl Sulfonamido Substances							
Perfluorooctane sulfonamide (FOSA)	ND U	5.0	0.52	1	08/23/21 19:05	8/18/21	
N-Methyl perfluorooctane sulfonamide (MeFOSA)	ND U	5.0	0.46	1	08/23/21 19:05	8/18/21	
N-Ethyl perfluorooctane sulfonamide (EtFOSA)	ND U	5.0	0.27	1	08/23/21 19:05	8/18/21	
N-Methyl perfluorooctane sulfonamidoethanol	ND U	5.0	0.30	1	08/23/21 19:05	8/18/21	
N-Ethyl perfluorooctane sulfonamidoethanol	ND U	5.0	0.13	1	08/23/21 19:05	8/18/21	
Fluorotelomer Sulfonic Acids (FTSAs)							
6:2 Fluorotelomer sulfonic acid (6:2 FTS)	ND U	5.0	0.55	1	08/23/21 19:05	8/18/21	
8:2 Fluorotelomer sulfonic acid (8:2 FTS)	ND U	5.0	0.15	1	08/23/21 19:05	8/18/21	

Analytical Report

Client:	Bellingham, City of	**Service Request:**	K2109142
Project:	Post. Pt. Scan	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Method Blank	**Units:**	ng/L
Lab Code:	KQ2115525-04	**Basis:**	NA

Per- and Polyfluoroalkyl Substances (PFAS) by LC/MS/MS

Analysis Method: PFC/537M
Prep Method: ALS SOP

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
13C3-PFBS	99	20 - 109	08/23/21 19:05	
18O2-PFHxS	92	26 - 122	08/23/21 19:05	
13C4-PFOS	92	25 - 121	08/23/21 19:05	
13C4-PFBA	106	27 - 124	08/23/21 19:05	
13C5-PFPeA	92	27 - 138	08/23/21 19:05	
13C2-PFHxA	96	28 - 132	08/23/21 19:05	
13C4-PFHpA	95	19 - 139	08/23/21 19:05	
13C4-PFOA	94	22 - 130	08/23/21 19:05	
13C5-PFNA	99	20 - 127	08/23/21 19:05	
13C2-PFDA	99	24 - 125	08/23/21 19:05	
13C2-PFUnDA	90	22 - 125	08/23/21 19:05	
13C2-PFDoDA	88	19 - 122	08/23/21 19:05	
13C2-PFTeDA	94	13 - 124	08/23/21 19:05	
13C8-FOSA	94	18 - 109	08/23/21 19:05	
D3-MeFOSA	82	15 - 153	08/23/21 19:05	
D5-EtFOSA	88	25 - 107	08/23/21 19:05	
D7-MeFOSE	88	24 - 112	08/23/21 19:05	
D9-EtFOSE	99	19 - 109	08/23/21 19:05	
13C2-6:2 FTS	87	10 - 226	08/23/21 19:05	
13C2-8:2 FTS	105	10 - 202	08/23/21 19:05	

Analytical Report

Client:	Bellingham, City of	**Service Request:**	K2109142
Project:	Post. Pt. Scan	**Date Collected:**	NA
Sample Matrix:	Soil	**Date Received:**	NA
Sample Name:	Method Blank	**Units:**	ng/g
Lab Code:	KQ2115544-04	**Basis:**	Dry

Per- and Polyfluoroalkyl Substances (PFAS) by LC/MS/MS

Analysis Method: PFC/537M
Prep Method: ALS SOP

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Perfluoroalkyl Sulfonic Acids (PFSAs)							
Perfluorobutane sulfonic acid (PFBS)	ND U	1.0	0.22	1	09/14/21 13:52	8/31/21	
Perfluorohexane sulfonic acid (PFHxS)	ND U	1.0	0.30	1	09/14/21 13:52	8/31/21	
Perfluoroheptane sulfonic acid (PFHpS)	ND U	1.0	0.062	1	09/14/21 13:52	8/31/21	
Perfluorooctane sulfonic acid (PFOS)	ND U	1.0	0.13	1	09/14/21 13:52	8/31/21	
Perfluorodecane sulfonic acid (PFDS)	ND U	1.0	0.17	1	09/14/21 13:52	8/31/21	
Perfluoroalkyl Carboxylic Acids (PFCAs)							
Perfluorobutanoic acid (PFBA)	ND U	1.0	0.39	1	09/14/21 13:52	8/31/21	
Perfluoropentanoic acid (PFPeA)	ND U	1.0	0.21	1	09/14/21 13:52	8/31/21	
Perfluorohexanoic acid (PFHxA)	ND U	1.0	0.31	1	09/14/21 13:52	8/31/21	
Perfluoroheptanoic acid (PFHpA)	ND U	1.0	0.19	1	09/14/21 13:52	8/31/21	
Perfluorooctanoic acid (PFOA)	ND U	1.0	0.13	1	09/14/21 13:52	8/31/21	
Perfluorononanoic acid (PFNA)	ND U	1.0	0.33	1	09/14/21 13:52	8/31/21	
Perfluorodecanoic acid (PFDA)	ND U	1.0	0.26	1	09/14/21 13:52	8/31/21	
Perfluoroundecanoic acid (PFUnDA)	ND U	1.0	0.18	1	09/14/21 13:52	8/31/21	
Perfluorododecanoic acid (PFDoDA)	ND U	1.0	0.27	1	09/14/21 13:52	8/31/21	
Perfluorotridecanoic acid (PFTrDA)	ND U	1.0	0.21	1	09/14/21 13:52	8/31/21	
Perfluorotetradecanoic acid (PFTeDA)	ND U	1.0	0.18	1	09/14/21 13:52	8/31/21	
Perfluoroalkyl Sulfonamido Substances							
Perfluorooctane sulfonamide (FOSA)	ND U	1.0	0.067	1	09/14/21 13:52	8/31/21	
N-Methyl perfluorooctane sulfonamide (MeFOSA)	ND U	1.0	0.073	1	09/14/21 13:52	8/31/21	
N-Ethyl perfluorooctane sulfonamide (EtFOSA)	ND U	1.0	0.11	1	09/14/21 13:52	8/31/21	
N-Methyl perfluorooctane sulfonamidoethanol	ND U	1.0	0.054	1	09/14/21 13:52	8/31/21	
N-Ethyl perfluorooctane sulfonamidoethanol	ND U	1.0	0.088	1	09/14/21 13:52	8/31/21	
Fluorotelomer Sulfonic Acids (FTSAs)							
6:2 Fluorotelomer sulfonic acid (6:2 FTS)	ND U	1.0	0.15	1	09/14/21 13:52	8/31/21	
8:2 Fluorotelomer sulfonic acid (8:2 FTS)	ND U	1.0	0.029	1	09/14/21 13:52	8/31/21	

Analytical Report

Client:	Bellingham, City of	**Service Request:**	K2109142
Project:	Post. Pt. Scan	**Date Collected:**	NA
Sample Matrix:	Soil	**Date Received:**	NA
Sample Name:	Method Blank	**Units:**	ng/g
Lab Code:	KQ2115544-04	**Basis:**	Dry

Per- and Polyfluoroalkyl Substances (PFAS) by LC/MS/MS

Analysis Method: PFC/537M
Prep Method: ALS SOP

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
13C3-PFBS	85	33 - 109	09/14/21 13:52	
18O2-PFHxS	99	36 - 120	09/14/21 13:52	
13C4-PFOS	90	32 - 130	09/14/21 13:52	
13C4-PFBA	88	34 - 116	09/14/21 13:52	
13C5-PFPeA	88	39 - 133	09/14/21 13:52	
13C2-PFHxA	93	32 - 136	09/14/21 13:52	
13C4-PFHpA	95	36 - 133	09/14/21 13:52	
13C4-PFOA	89	31 - 134	09/14/21 13:52	
13C5-PFNA	95	27 - 133	09/14/21 13:52	
13C2-PFDA	101	30 - 137	09/14/21 13:52	
13C2-PFUnDA	91	32 - 146	09/14/21 13:52	
13C2-PFDoDA	90	36 - 136	09/14/21 13:52	
13C2-PFTeDA	79	39 - 138	09/14/21 13:52	
13C8-FOSA	89	40 - 132	09/14/21 13:52	
D3-MeFOSA	76	51 - 132	09/14/21 13:52	
D5-EtFOSA	83	49 - 123	09/14/21 13:52	
D7-MeFOSE	70	53 - 125	09/14/21 13:52	
D9-EtFOSE	82	45 - 121	09/14/21 13:52	
13C2-6:2 FTS	118	30 - 140	09/14/21 13:52	
13C2-8:2 FTS	122	9 - 171	09/14/21 13:52	

Client: Bellingham, City of **Service Request:** K2109142
Project: Post. Pt. Scan/
Sample Matrix: Soil

SURROGATE RECOVERY SUMMARY
Per- and Polyfluoroalkyl Substances (PFAS) by LC/MS/MS

Analysis Method: PFC/537M
Extraction Method: ALS SOP

Surrogate	Control Limits	Final Effluent K2109142-001	Incin. Feed K2109142-002	Method Blank KQ2115525-04
13C3-PFBS	33-109		114*	
18O2-PFHxS	36-120		130*	
13C4-PFOS	32-130		113	
13C4-PFBA	34-116		130*	
13C5-PFPeA	39-133		116	
13C2-PFHxA	32-136		121	
13C4-PFHpA	36-133		120	
13C4-PFOA	31-134		104	
13C5-PFNA	27-133		122	
13C2-PFDA	30-137		127	
13C2-PFUnDA	32-146		95	
13C2-PFDoDA	36-136		97	
13C2-PFTeDA	39-138		74	
13C8-FOSA	40-132		34*	
D3-MeFOSA	51-132		22*	
D5-EtFOSA	49-123		17*	
D7-MeFOSE	53-125		16*	
D9-EtFOSE	45-121		59	
13C2-6:2 FTS	30-140		199*	
13C2-8:2 FTS	9-171		242*	

Results flagged with an asterisk (*) indicate values outside control criteria.
Results flagged with an pound (#) indicate the control criteria is not acceptable.

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QA/QC Report

Client: Bellingham, City of **Service Request:** K2109142
Project: Post. Pt. Scan/
Sample Matrix: Soil

SURROGATE RECOVERY SUMMARY
Per- and Polyfluoroalkyl Substances (PFAS) by LC/MS/MS

Analysis Method: PFC/537M
Extraction Method: ALS SOP

Surrogate	Control Limits	Method Blank KQ2115544-04	Lab Control Sample KQ2115525-03	Lab Control Sample KQ2115544-05
13C3-PFBS	33-109	85		91
18O2-PFHxS	36-120	99		98
13C4-PFOS	32-130	90		88
13C4-PFBA	34-116	88		87
13C5-PFPeA	39-133	88		90
13C2-PFHxA	32-136	93		90
13C4-PFHpA	36-133	95		97
13C4-PFOA	31-134	89		86
13C5-PFNA	27-133	95		95
13C2-PFDA	30-137	101		97
13C2-PFUnDA	32-146	91		92
13C2-PFDoDA	36-136	90		87
13C2-PFTeDA	39-138	79		81
13C8-FOSA	40-132	89		91
D3-MeFOSA	51-132	76		78
D5-EtFOSA	49-123	83		83
D7-MeFOSE	53-125	70		72
D9-EtFOSE	45-121	82		83
13C2-6:2 FTS	30-140	118		120
13C2-8:2 FTS	9-171	122		129

Results flagged with an asterisk (*) indicate values outside control criteria.
Results flagged with an pound (#) indicate the control criteria is not acceptable.

Client: Bellingham, City of **Service Request:** K2109142
Project: Post. Pt. Scan/
Sample Matrix: Soil

SURROGATE RECOVERY SUMMARY
Per- and Polyfluoroalkyl Substances (PFAS) by LC/MS/MS

Analysis Method: PFC/537M
Extraction Method: ALS SOP

Surrogate	Control Limits	Duplicate Lab Control Sample KQ2115544-06	Incin. Feed KQ2115544-01	Incin. Feed KQ2115544-02
13C3-PFBS	33-109	84	89	101
18O2-PFHxS	36-120	93	106	111
13C4-PFOS	32-130	87	91	109
13C4-PFBA	34-116	86	103	120*
13C5-PFPeA	39-133	88	89	98
13C2-PFHxA	32-136	80	87	92
13C4-PFHpA	36-133	95	98	96
13C4-PFOA	31-134	90	88	100
13C5-PFNA	27-133	90	99	118
13C2-PFDA	30-137	99	100	118
13C2-PFUnDA	32-146	89	90	102
13C2-PFDoDA	36-136	88	77	90
13C2-PFTeDA	39-138	79	53	56
13C8-FOSA	40-132	88	24*	24*
D3-MeFOSA	51-132	76	16*	17*
D5-EtFOSA	49-123	83	14*	12*
D7-MeFOSE	53-125	71	14*	13*
D9-EtFOSE	45-121	77	57	61
13C2-6:2 FTS	30-140	119	146*	171*
13C2-8:2 FTS	9-171	125	187*	224*

Results flagged with an asterisk (*) indicate values outside control criteria.
Results flagged with an pound (#) indicate the control criteria is not acceptable.

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QA/QC Report

Client: Bellingham, City of **Service Request:** K2109142
Project: Post. Pt. Scan/
Sample Matrix: Water

SURROGATE RECOVERY SUMMARY
Per- and Polyfluoroalkyl Substances (PFAS) by LC/MS/MS

Analysis Method: PFC/537M
Extraction Method: ALS SOP

Surrogate	Control Limits	Final Effluent K2109142-001	Incin. Feed K2109142-002	Method Blank KQ2115525-04
13C3-PFBS	20-109	102		99
18O2-PFHxS	26-122	87		92
13C4-PFOS	25-121	82		92
13C4-PFBA	27-124	85		106
13C5-PFPeA	27-138	80		92
13C2-PFHxA	28-132	81		96
13C4-PFHpA	19-139	82		95
13C4-PFOA	22-130	77		94
13C5-PFNA	20-127	77		99
13C2-PFDA	24-125	74		99
13C2-PFUnDA	22-125	68		90
13C2-PFDoDA	19-122	34		88
13C2-PFTeDA	13-124	11*		94
13C8-FOSA	18-109	59		94
D3-MeFOSA	15-153	49		82
D5-EtFOSA	25-107	42		88
D7-MeFOSE	24-112	58		88
D9-EtFOSE	19-109	54		99
13C2-6:2 FTS	10-226	98		87
13C2-8:2 FTS	10-202	95		105

Results flagged with an asterisk (*) indicate values outside control criteria.
Results flagged with an pound (#) indicate the control criteria is not acceptable.

Client: Bellingham, City of **Service Request:** K2109142
Project: Post. Pt. Scan/
Sample Matrix: Water

SURROGATE RECOVERY SUMMARY
Per- and Polyfluoroalkyl Substances (PFAS) by LC/MS/MS

Analysis Method: PFC/537M
Extraction Method: ALS SOP

Surrogate	Control Limits	Method Blank KQ2115544-04	Lab Control Sample KQ2115525-03	Lab Control Sample KQ2115544-05
13C3-PFBS	20-109		112*	
18O2-PFHxS	26-122		117	
13C4-PFOS	25-121		110	
13C4-PFBA	27-124		121	
13C5-PFPeA	27-138		100	
13C2-PFHxA	28-132		97	
13C4-PFHpA	19-139		102	
13C4-PFOA	22-130		101	
13C5-PFNA	20-127		107	
13C2-PFDA	24-125		107	
13C2-PFUnDA	22-125		100	
13C2-PFDoDA	19-122		97	
13C2-PFTeDA	13-124		97	
13C8-FOSA	18-109		95	
D3-MeFOSA	15-153		93	
D5-EtFOSA	25-107		95	
D7-MeFOSE	24-112		100	
D9-EtFOSE	19-109		110*	
13C2-6:2 FTS	10-226		86	
13C2-8:2 FTS	10-202		105	

Results flagged with an asterisk (*) indicate values outside control criteria.
Results flagged with an pound (#) indicate the control criteria is not acceptable.

Client: Bellingham, City of **Service Request:**K2109142
Project: Post. Pt. Scan **Date Analyzed:**08/23/21 16:49

Internal Standard Area and RT SUMMARY
Per- and Polyfluoroalkyl Substances (PFAS) by LC/MS/MS

File ID: J:\LCMS06\Data\210823_B3\210823_007 **Lab Code:**KQ2116601-01
Instrument ID: K-LCMS-06 **Analysis Lot:**736760
Analysis Method: PFC/537M **Signal ID:**1

	13C7-PFUnDA	
	Area	**RT**
Result ==>	3,458,834	5.133
Upper Limit ==>	6,917,668	6.13
Lower Limit ==>	1,729,417	4.13

Associated Analyses

Continuing Calibration Blank	KQ2116601-02	3976370	5.139
Method Blank	KQ2115525-04	4276589	5.137
Lab Control Sample	KQ2115525-03	3624960	5.141
Final Effluent	K2109142-001	4245006	5.140

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QA/QC Report

Client: Bellingham, City of **Service Request:**K2109142
Project: Post. Pt. Scan **Date Analyzed:**09/14/21 13:31

Internal Standard Area and RT SUMMARY
Per- and Polyfluoroalkyl Substances (PFAS) by LC/MS/MS

File ID: J:\LCMS06\Data\210914_B1\210914_015 **Lab Code:**KQ2117883-01
Instrument ID: K-LCMS-06 **Analysis Lot:**738712
Analysis Method: PFC/537M **Signal ID:**1

		13C7-PFUnDA	
		Area	**RT**
	Result ==>	4,454,644	5.122
	Upper Limit ==>	8,909,288	6.12
	Lower Limit ==>	2,227,322	4.12

Associated Analyses

Continuing Calibration Blank	KQ2117883-02	4652243	5.120
Method Blank	KQ2115544-04	4931100	5.121
Lab Control Sample	KQ2115544-05	5123384	5.120
Duplicate Lab Control Sample	KQ2115544-06	5038023	5.124
Incin. Feed	K2109142-002	3872869	5.117
Incin. FeedMS	KQ2115544-01	4690627	5.114
Incin. FeedDMS	KQ2115544-02	4309711	5.111

Client:	Bellingham, City of	**Service Request:**	K2109142
Project:	Post. Pt. Scan	**Date Collected:**	08/05/21
Sample Matrix:	Soil	**Date Received:**	08/06/21
		Date Analyzed:	09/14/21
		Date Extracted:	08/31/21

Duplicate Matrix Spike Summary
Per- and Polyfluoroalkyl Substances (PFAS) by LC/MS/MS

Sample Name:	Incin. Feed	**Units:**	ng/g
Lab Code:	K2109142-002	**Basis:**	Dry
Analysis Method:	PFC/537M		
Prep Method:	ALS SOP		

		Matrix Spike			Duplicate Matrix Spike					
		KQ2115544-01			KQ2115544-02					
Analyte Name	**Sample Result**	**Result**	**Spike Amount**	**% Rec**	**Result**	**Spike Amount**	**% Rec**	**% Rec Limits**	**RPD**	**RPD Limit**
Perfluorobutane sulfonic acid (PFBS)	ND U	31.2	30.0	104	31.4	27.7	113	48-148	<1	50
Perfluorohexane sulfonic acid (PFHxS)	ND U	26.3	30.9	85	28.3	28.5	99	75-142	8	50
Perfluoroheptane sulfonic acid (PFHpS)	ND U	30.7	32.2	95	31.4	29.8	105	69-173	2	50
Perfluorooctane sulfonic acid (PFOS)	3.1 J	37.1	31.4	108	34.2	29.0	107	72-141	8	50
Perfluorodecane sulfonic acid (PFDS)	ND U	34.3	32.6	105	30.3	30.1	100	83-152	12	50
Perfluorobutanoic acid (PFBA)	ND U	40.3	33.8	119	37.4	31.2	120	29-179	7	50
Perfluoropentanoic acid (PFPeA)	ND U	37.0	33.8	109	35.4	31.2	113	64-131	4	50
Perfluorohexanoic acid (PFHxA)	ND U	35.8	33.8	106	35.2	31.2	112	68-148	2	50
Perfluoroheptanoic acid (PFHpA)	8.3	43.3	33.8	104	40.1	31.2	102	73-136	8	50
Perfluorooctanoic acid (PFOA)	0.62 J	34.2	33.8	99	31.5	31.2	99	77-151	8	50
Perfluorononanoic acid (PFNA)	ND U	38.9	33.8	115	34.3	31.2	110	63-160	13	50
Perfluorodecanoic acid (PFDA)	1.4 J	35.1	33.8	100	33.2	31.2	102	73-142	6	50
Perfluoroundecanoic acid (PFUnDA)	0.86 J	36.4	33.8	105	33.8	31.2	105	69-147	7	50
Perfluorododecanoic acid (PFDoDA)	ND U	36.8	33.8	109	33.0	31.2	105	69-150	11	50
Perfluorotridecanoic acid (PFTrDA)	ND U	49.1	33.8	145 *	47.9	31.2	153 *	63-134	2	50
Perfluorotetradecanoic acid (PFTeDA)	ND U	33.2	33.8	98	31.0	31.2	99	70-143	7	50
Perfluorooctane sulfonamide (FOSA)	0.44 J	33.4	33.8	97	35.2	31.2	111	63-138	5	50
N-Methyl perfluorooctane sulfonamide (MeFOSA)	ND U	51.8	33.8	153 *	48.0	31.2	154 *	75-136	8	50
N-Ethyl perfluorooctane sulfonamide (EtFOSA)	ND U	443	33.8	1311 *	281	31.2	899 *	72-142	45	50
N-Methyl perfluorooctane sulfonamidoethanol	8.0	41.0	33.8	98	35.6	31.2	89	62-141	14	50
N-Ethyl perfluorooctane sulfonamidoethanol	ND U	11.5	33.8	34 *	8.45	31.2	27 *	70-137	31	50
6:2 Fluorotelomer sulfonic acid (6:2 FTS)	ND U	38.2	32.2	119	36.4	29.7	123	69-147	5	50
8:2 Fluorotelomer sulfonic acid (8:2 FTS)	0.50 J	35.3	32.5	107	35.0	30.0	115	66-141	<1	50

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

Matrix Spike and Matrix Spike Duplicate Data is presented for information purposes only. The matrix may or may not be relevant to samples reported in this report. The laboratory evaluates system performance based on the LCS and LCSD control limits.

Client:	Bellingham, City of	**Service Request:**	K2109142
Project:	Post. Pt. Scan	**Date Analyzed:**	08/23/21
Sample Matrix:	Water	**Date Extracted:**	08/18/21

Lab Control Sample Summary
Per- and Polyfluoroalkyl Substances (PFAS) by LC/MS/MS

Analysis Method:	PFC/537M	**Units:**	ng/L
Prep Method:	ALS SOP	**Basis:**	NA
		Analysis Lot:	736760

Lab Control Sample
KQ2115525-03

Analyte Name	Result	Spike Amount	% Rec	% Rec Limits
6:2 Fluorotelomer sulfonic acid (6:2 FTS)	34.4	30.4	113	77-150
8:2 Fluorotelomer sulfonic acid (8:2 FTS)	31.4	30.7	102	65-166
N-Ethyl perfluorooctane sulfonamide (EtFOSA)	27.8	32.0	87	73-145
N-Ethyl perfluorooctane sulfonamidoethanol	30.4	32.0	95	37-172
N-Methyl perfluorooctane sulfonamide (MeFOSA)	30.0	32.0	94	66-142
N-Methyl perfluorooctane sulfonamidoethanol	35.1	32.0	110	38-163
Perfluorobutane sulfonic acid (PFBS)	26.7	28.4	94	67-145
Perfluorobutanoic acid (PFBA)	32.5	32.0	101	81-139
Perfluorodecane sulfonic acid (PFDS)	27.5	30.9	89	60-129
Perfluorodecanoic acid (PFDA)	31.7	32.0	99	68-152
Perfluorododecanoic acid (PFDoDA)	32.9	32.0	103	66-142
Perfluoroheptane sulfonic acid (PFHpS)	26.6	30.5	87	60-162
Perfluoroheptanoic acid (PFHpA)	31.7	32.0	99	64-147
Perfluorohexane sulfonic acid (PFHxS)	26.5	29.2	91	65-148
Perfluorohexanoic acid (PFHxA)	31.3	32.0	98	65-149
Perfluorononanoic acid (PFNA)	27.2	32.0	85	72-145
Perfluorooctane sulfonamide (FOSA)	29.9	32.0	94	71-134
Perfluorooctane sulfonic acid (PFOS)	28.9	29.7	97	67-135
Perfluorooctanoic acid (PFOA)	29.9	32.0	93	59-147
Perfluoropentanoic acid (PFPeA)	30.6	32.0	96	66-159
Perfluorotetradecanoic acid (PFTeDA)	30.3	32.0	95	61-148
Perfluorotridecanoic acid (PFTrDA)	32.8	32.0	103	64-153
Perfluoroundecanoic acid (PFUnDA)	29.7	32.0	93	68-145

Client:	Bellingham, City of	**Service Request:**	K2109142
Project:	Post. Pt. Scan	**Date Analyzed:**	09/14/21
Sample Matrix:	Soil	**Date Extracted:**	08/31/21

Duplicate Lab Control Sample Summary
Per- and Polyfluoroalkyl Substances (PFAS) by LC/MS/MS

Analysis Method:	PFC/537M	**Units:**	ng/g
Prep Method:	ALS SOP	**Basis:**	Dry
		Analysis Lot:	738712

	Lab Control Sample KQ2115544-05			Duplicate Lab Control Sample KQ2115544-06					
Analyte Name	**Result**	**Spike Amount**	**% Rec**	**Result**	**Spike Amount**	**% Rec**	**% Rec Limits**	**RPD**	**RPD Limit**
6:2 Fluorotelomer sulfonic acid (6:2 FTS)	8.81	7.61	116	8.67	7.61	114	69-147	2	50
8:2 Fluorotelomer sulfonic acid (8:2 FTS)	8.18	7.68	106	8.48	7.68	110	66-141	4	50
N-Ethyl perfluorooctane sulfonamide (EtFOSA)	8.03	8.00	100	8.19	8.00	102	72-142	2	50
N-Ethyl perfluorooctane sulfonamidoethanol	8.35	8.00	104	8.50	8.00	106	70-137	2	50
N-Methyl perfluorooctane sulfonamide (MeFOSA)	9.21	8.00	115	9.39	8.00	117	75-136	2	50
N-Methyl perfluorooctane sulfonamidoethanol	9.40	8.00	118	9.50	8.00	119	62-141	1	50
Perfluorobutane sulfonic acid (PFBS)	7.26	7.10	102	7.70	7.10	108	48-148	6	50
Perfluorobutanoic acid (PFBA)	8.72	8.00	109	8.70	8.00	109	29-179	<1	50
Perfluorodecane sulfonic acid (PFDS)	9.38	7.72	122	9.16	7.72	119	83-152	2	50
Perfluorodecanoic acid (PFDA)	8.79	8.00	110	8.62	8.00	108	73-142	2	50
Perfluorododecanoic acid (PFDoDA)	9.68	8.00	121	9.01	8.00	113	69-150	7	50
Perfluoroheptane sulfonic acid (PFHpS)	7.85	7.63	103	8.34	7.63	109	69-173	6	50
Perfluoroheptanoic acid (PFHpA)	7.60	8.00	95	8.00	8.00	100	73-136	5	50
Perfluorohexane sulfonic acid (PFHxS)	6.91	7.30	95	8.54	7.30	117	75-142	21	50
Perfluorohexanoic acid (PFHxA)	8.53	8.00	107	8.26	8.00	103	68-148	3	50
Perfluorononanoic acid (PFNA)	8.51	8.00	106	9.35	8.00	117	63-160	9	50
Perfluorooctane sulfonamide (FOSA)	8.29	8.00	104	8.23	8.00	103	63-138	<1	50
Perfluorooctane sulfonic acid (PFOS)	8.61	7.43	116	8.57	7.43	115	72-141	<1	50
Perfluorooctanoic acid (PFOA)	8.86	8.00	111	8.45	8.00	106	77-151	5	50
Perfluoropentanoic acid (PFPeA)	9.30	8.00	116	9.26	8.00	116	64-131	<1	50
Perfluorotetradecanoic acid (PFTeDA)	7.97	8.00	100	8.01	8.00	100	70-143	<1	50
Perfluorotridecanoic acid (PFTrDA)	10.1	8.00	127	10.3	8.00	128	63-134	1	50
Perfluoroundecanoic acid (PFUnDA)	8.55	8.00	107	8.81	8.00	110	69-147	3	50

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QA/QC Report

Client:	Bellingham, City of	**Service Request:**	K2109142
Project:	Post. Pt. Scan	**Date Analyzed:**	08/23/21 19:05
Sample Matrix:	Water	**Date Extracted:**	08/18/21

Method Blank Summary
Per- and Polyfluoroalkyl Substances (PFAS) by LC/MS/MS

Sample Name:	Method Blank	**Instrument ID:**	K-LCMS-06
Lab Code:	KQ2115525-04	**File ID:**	J:\LCMS06\Data\210823_B3\210823_017
Analysis Method:	PFC/537M	**Analysis Lot:**	736760
Prep Method:	ALS SOP	**Extraction Lot:**	385310

This Method Blank applies to the following analyses.

Sample Name	Lab Code	File ID	Date Analyzed
Lab Control Sample	KQ2115525-03	J:\LCMS06\Data\210823_B3\210823_018	08/23/21 19:16
Final Effluent	K2109142-001	J:\LCMS06\Data\210823_B3\210823_032	08/23/21 21:42

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client:	Bellingham, City of	**Service Request:**	K2109142
Project:	Post. Pt. Scan	**Date Analyzed:**	09/14/21 13:52
Sample Matrix:	Soil	**Date Extracted:**	08/31/21

Method Blank Summary
Per- and Polyfluoroalkyl Substances (PFAS) by LC/MS/MS

Sample Name:	Method Blank	**Instrument ID:**	K-LCMS-06
Lab Code:	KQ2115544-04	**File ID:**	J:\LCMS06\Data\210914_B1\210914_017
Analysis Method:	PFC/537M	**Analysis Lot:**	738712
Prep Method:	ALS SOP	**Extraction Lot:**	385318

This Method Blank applies to the following analyses.

Sample Name	Lab Code	File ID	Date Analyzed
Lab Control Sample	KQ2115544-05	J:\LCMS06\Data\210914_B1\210914_018	09/14/21 14:03
Duplicate Lab Control Sample	KQ2115544-06	J:\LCMS06\Data\210914_B1\210914_019	09/14/21 14:13
Incin. Feed	K2109142-002	J:\LCMS06\Data\210914_B1\210914_022	09/14/21 14:45
Incin. FeedMS	KQ2115544-01	J:\LCMS06\Data\210914_B1\210914_023	09/14/21 14:55
Incin. FeedDMS	KQ2115544-02	J:\LCMS06\Data\210914_B1\210914_024	09/14/21 15:06

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client:	Bellingham, City of	**Service Request:**	K2109142
Project:	Post. Pt. Scan	**Date Analyzed:**	08/23/21 19:16
Sample Matrix:	Water	**Date Extracted:**	08/18/21

Lab Control Sample Summary
Per- and Polyfluoroalkyl Substances (PFAS) by LC/MS/MS

Sample Name:	Lab Control Sample	**Instrument ID:**	K-LCMS-06
Lab Code:	KQ2115525-03	**File ID:**	J:\LCMS06\Data\210823_B3\210823_018
Analysis Method:	PFC/537M	**Analysis Lot:**	736760
Prep Method:	ALS SOP	**Extraction Lot:**	385310

This Lab Control Sample applies to the following analyses.

Sample Name	Lab Code	File ID	Date Analyzed
Method Blank	KQ2115525-04	J:\LCMS06\Data\210823_B3\210823_017	08/23/21 19:05
Final Effluent	K2109142-001	J:\LCMS06\Data\210823_B3\210823_032	08/23/21 21:42

Client:	Bellingham, City of	**Service Request:**	K2109142
Project:	Post. Pt. Scan	**Date Analyzed:**	09/14/21 14:03
Sample Matrix:	Soil	**Date Extracted:**	08/31/21

Lab Control Sample Summary
Per- and Polyfluoroalkyl Substances (PFAS) by LC/MS/MS

Sample Name:	Lab Control Sample	**Instrument ID:**	K-LCMS-06
Lab Code:	KQ2115544-05	**File ID:**	J:\LCMS06\Data\210914_B1\210914_018
Analysis Method:	PFC/537M	**Analysis Lot:**	738712
Prep Method:	ALS SOP	**Extraction Lot:**	385318

This Lab Control Sample applies to the following analyses.

Sample Name	Lab Code	File ID	Date Analyzed
Method Blank	KQ2115544-04	J:\LCMS06\Data\210914_B1\210914_017	09/14/21 13:52
Duplicate Lab Control Sample	KQ2115544-06	J:\LCMS06\Data\210914_B1\210914_019	09/14/21 14:13
Incin. Feed	K2109142-002	J:\LCMS06\Data\210914_B1\210914_022	09/14/21 14:45
Incin. FeedMS	KQ2115544-01	J:\LCMS06\Data\210914_B1\210914_023	09/14/21 14:55
Incin. FeedDMS	KQ2115544-02	J:\LCMS06\Data\210914_B1\210914_024	09/14/21 15:06

Client: Bellingham, City of
Project: Post. Pt. Scan

Service Request: K2109142
Calibration Date: 8/19/2021

Initial Calibration Summary
Per- and Polyfluoroalkyl Substances (PFAS) by LC/MS/MS

Calibration ID: KC2100446
Instrument ID: K-LCMS-06

Signal ID: 1

#	Lab Code	Sample Name	File Location	Acquisition Date
01	KC2100446-01	PFC ICAL @ 0.05ppb	210819_020	08/19/2021 18:39
02	KC2100446-02	PFC ICAL @ 0.10ppb	210819_021	08/19/2021 18:49
03	KC2100446-03	PFC ICAL @ 0.50ppb	210819_022	08/19/2021 19:00
04	KC2100446-04	PFC ICAL @ 1.0ppb	210819_023	08/19/2021 19:10
05	KC2100446-05	PFC ICAL @ 5.0ppb	210819_024	08/19/2021 19:21
06	KC2100446-06	PFC ICAL @ 10ppb	210819_025	08/19/2021 19:31
07	KC2100446-07	PFC ICAL @ 15ppb	210819_027	08/19/2021 19:52

Analyte

13C2-6:2 FTS

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	5.0000	0.11	02	5.0000	0.1065	03	5.0000	0.1182	04	5.0000	0.1004
05	5.0000	0.1067	06	5.0000	0.1104	07	5.0000	0.1076			

13C2-8:2 FTS

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	5.0000	0.05652	02	5.0000	0.05726	03	5.0000	0.06015	04	5.0000	0.05521
05	5.0000	0.05846	06	5.0000	0.05918	07	5.0000	0.05764			

13C2-PFDA

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	5.0000	0.4788	02	5.0000	0.4667	03	5.0000	0.5006	04	5.0000	0.4605
05	5.0000	0.4662	06	5.0000	0.4729	07	5.0000	0.4599			

13C2-PFDoDA

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	5.0000	0.673	02	5.0000	0.6471	03	5.0000	0.7307	04	5.0000	0.6557
05	5.0000	0.69	06	5.0000	0.6983	07	5.0000	0.7295			

13C2-PFHxA

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
02	5.0000	0.7751	03	5.0000	0.769	04	5.0000	0.758	05	5.0000	0.6895
06	5.0000	0.7027	07	5.0000	0.7517						

13C2-PFTeDA

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	5.0000	0.4612	02	5.0000	0.4514	03	5.0000	0.4817	04	5.0000	0.4383
05	5.0000	0.475	06	5.0000	0.4699	07	5.0000	0.4872			

13C2-PFUnDA

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	5.0000	0.6207	02	5.0000	0.6266	03	5.0000	0.6423	04	5.0000	0.6278
05	5.0000	0.6312	06	5.0000	0.6288	07	5.0000	0.6268			

13C3-PFBS

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	5.0000	0.1036	02	5.0000	0.1003	03	5.0000	0.1076	04	5.0000	0.09773

Client: Bellingham, City of
Project: Post. Pt. Scan

Service Request: K2109142
Calibration Date: 8/19/2021

Initial Calibration Summary
Per- and Polyfluoroalkyl Substances (PFAS) by LC/MS/MS

Calibration ID: KC2100446
Instrument ID: K-LCMS-06

Signal ID: 1

Analyte

13C3-PFBS

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
05	5.0000	0.1035	06	5.0000	0.1049	07	5.0000	0.1049			

13C4-PFBA

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	5.0000	0.4191	02	5.0000	0.3955	03	5.0000	0.4156	04	5.0000	0.3968
05	5.0000	0.4031	06	5.0000	0.4077	07	5.0000	0.4207			

13C4-PFHpA

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	5.0000	0.7796	02	5.0000	0.7963	03	5.0000	0.7673	04	5.0000	0.7522
05	5.0000	0.7178	06	5.0000	0.709	07	5.0000	0.7442			

13C4-PFOA

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	5.0000	0.8571	02	5.0000	0.8499	03	5.0000	0.8643	04	5.0000	0.8317
05	5.0000	0.8264	06	5.0000	0.8248	07	5.0000	0.8084			

13C4-PFOS

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	5.0000	0.08686	02	5.0000	0.08856	03	5.0000	0.08799	04	5.0000	0.08474
05	5.0000	0.08528	06	5.0000	0.08918	07	5.0000	0.08971			

13C5-PFNA

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	5.0000	0.6534	02	5.0000	0.6247	03	5.0000	0.6876	04	5.0000	0.6357
05	5.0000	0.6318	06	5.0000	0.6192	07	5.0000	0.6198			

13C5-PFPeA

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	5.0000	0.2786	02	5.0000	0.2647	03	5.0000	0.2741	04	5.0000	0.2647
05	5.0000	0.2664	06	5.0000	0.2662	07	5.0000	0.2692			

13C8-FOSA

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	5.0000	0.2927	02	5.0000	0.2825	03	5.0000	0.2989	04	5.0000	0.2957
05	5.0000	0.2972	06	5.0000	0.3087	07	5.0000	0.3033			

18O2-PFHxS

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	5.0000	0.07264	02	5.0000	0.07291	03	5.0000	0.06747	04	5.0000	0.06683
05	5.0000	0.06832	06	5.0000	0.06655	07	5.0000	0.07796			

6:2 Fluorotelomer sulfonic acid (6:2 FTS)

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.0476	1.362	02	0.0951	1.384	03	0.4756	1.371	04	0.9512	1.587
05	4.7558	1.437	06	9.5117	1.308	07	14.2676	1.286			

Client: Bellingham, City of
Project: Post. Pt. Scan

Service Request: K2109142
Calibration Date: 8/19/2021

Initial Calibration Summary
Per- and Polyfluoroalkyl Substances (PFAS) by LC/MS/MS

Calibration ID: KC2100446
Instrument ID: K-LCMS-06

Signal ID: 1

Analyte

8:2 Fluorotelomer sulfonic acid (8:2 FTS)

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.0480	1.352	02	0.0960	1.139	03	0.4800	1.112	04	0.9600	1.264
05	4.8002	1.139	06	9.6005	1.066	07	14.4007	1.069			

D3-MeFOSA

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	5.0000	0.07027	02	5.0000	0.06791	03	5.0000	0.06989	04	5.0000	0.07057
05	5.0000	0.06633	06	5.0000	0.06825	07	5.0000	0.0702			

D5-EtFOSA

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	5.0000	0.08122	02	5.0000	0.07565	03	5.0000	0.07792	04	5.0000	0.07916
05	5.0000	0.0785	06	5.0000	0.07684	07	5.0000	0.07997			

D7-MeFOSE

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	5.0000	0.06831	02	5.0000	0.06502	03	5.0000	0.07057	04	5.0000	0.06771
05	5.0000	0.06993	06	5.0000	0.0697	07	5.0000	0.0722			

D9-EtFOSE

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	5.0000	0.07354	02	5.0000	0.07025	03	5.0000	0.07565	04	5.0000	0.06848
05	5.0000	0.06808	06	5.0000	0.07114	07	5.0000	0.07337			

N-Ethyl perfluorooctane sulfonamide (EtFOSA)

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.0500	0.3306	02	0.1000	0.305	03	0.5000	0.2819	04	1.0000	0.3454
05	5.0000	0.3048	06	10.0000	0.3143	07	15.0000	0.3114			

N-Ethyl perfluorooctane sulfonamidoethanol

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.0500	2.071	02	0.1000	2.105	03	0.5000	2.101	04	1.0000	2.571
05	5.0000	2.462	06	10.0000	2.348	07	15.0000	2.357			

N-Methyl perfluorooctane sulfonamide (MeFOSA)

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.0500	2.025	02	0.1000	1.783	03	0.5000	1.681	04	1.0000	2.017
05	5.0000	1.892	06	10.0000	1.849	07	15.0000	1.855			

N-Methyl perfluorooctane sulfonamidoethanol

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.0500	2.113	02	0.1000	2.111	03	0.5000	2.174	04	1.0000	2.325
05	5.0000	2.192	06	10.0000	2.184	07	15.0000	2.229			

Perfluorobutane sulfonic acid (PFBS)

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.0444	1.657	02	0.0887	1.676	03	0.4437	1.691	04	0.8874	2.014
05	4.4369	1.843	06	8.8737	1.813	07	13.3106	1.923			

Client: Bellingham, City of
Project: Post. Pt. Scan

Service Request: K2109142
Calibration Date: 8/19/2021

Initial Calibration Summary
Per- and Polyfluoroalkyl Substances (PFAS) by LC/MS/MS

Calibration ID: KC2100446
Instrument ID: K-LCMS-06

Signal ID: 1

Analyte

Perfluorobutanoic acid (PFBA)

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.0500	0.5757	02	0.1000	1.305	03	0.5000	1.15	04	1.0000	1.109
05	5.0000	1.232	06	10.0000	1.238	07	15.0000	1.273			

Perfluorodecane sulfonic acid (PFDS)

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.0482	1.406	02	0.0965	0.9027	03	0.4823	1.248	04	0.9647	1.289
05	4.8233	1.285	06	9.6467	1.215	07	14.4700	1.206			

Perfluorodecanoic acid (PFDA)

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.0500	1.548	02	0.1000	1.392	03	0.5000	1.455	04	1.0000	1.556
05	5.0000	1.52	06	10.0000	1.45	07	15.0000	1.548			

Perfluorododecanoic acid (PFDoDA)

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.0500	1.065	02	0.1000	0.9578	03	0.5000	0.873	04	1.0000	0.9646
05	5.0000	1.002	06	10.0000	0.967	07	15.0000	0.9811			

Perfluoroheptane sulfonic acid (PFHpS)

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.0477	2.514	02	0.0953	2.114	03	0.4767	2.016	04	0.9534	2.112
05	4.7672	2.007	06	9.5344	2.098	07	14.3016	1.828			

Perfluoroheptanoic acid (PFHpA)

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.0500	1.106	02	0.1000	1.118	03	0.5000	0.8871	04	1.0000	1.229
05	5.0000	1.074	06	10.0000	1.109	07	15.0000	1.088			

Perfluorohexane sulfonic acid (PFHxS)

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.0457	2.774	02	0.0913	1.711	03	0.4565	1.554	04	0.9131	1.872
05	4.5654	1.684	06	9.1308	1.717	07	13.6961	1.62			

Perfluorohexanoic acid (PFHxA)

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
02	0.1000	1.276	03	0.5000	1.332	04	1.0000	1.429	05	5.0000	1.38
06	10.0000	1.35	07	15.0000	1.361						

Perfluorononanoic acid (PFNA)

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.0500	1.187	02	0.1000	1.262	03	0.5000	1.155	04	1.0000	1.314
05	5.0000	1.247	06	10.0000	1.21	07	15.0000	1.266			

Perfluorooctane sulfonamide (FOSA)

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.0500	1.174	02	0.1000	1.278	03	0.5000	1.204	04	1.0000	1.319
05	5.0000	1.306	06	10.0000	1.274	07	15.0000	1.341			

Client: Bellingham, City of
Project: Post. Pt. Scan

Service Request: K2109142
Calibration Date: 8/19/2021

Initial Calibration Summary
Per- and Polyfluoroalkyl Substances (PFAS) by LC/MS/MS

Calibration ID: KC2100446
Instrument ID: K-LCMS-06

Signal ID: 1

Analyte

Perfluorooctane sulfonic acid (PFOS)

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.0465	1.158	02	0.0929	0.7795	03	0.4646	0.9167	04	0.9292	0.9784
05	4.6461	0.9372	06	9.2923	0.9	07	13.9385	0.9137			

Perfluorooctanoic acid (PFOA)

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.0500	1.973	02	0.1000	1.547	03	0.5000	1.393	04	1.0000	1.533
05	5.0000	1.428	06	10.0000	1.428	07	15.0000	1.455			

Perfluoropentanoic acid (PFPeA)

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.0500	4.099	02	0.1000	3.625	03	0.5000	2.841	04	1.0000	2.959
05	5.0000	2.868	06	10.0000	2.889	07	15.0000	2.978			

Perfluorotetradecanoic acid (PFTeDA)

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.0500	1.214	02	0.1000	1.141	03	0.5000	1.088	04	1.0000	1.137
05	5.0000	1.102	06	10.0000	1.08	07	15.0000	1.107			

Perfluorotridecanoic acid (PFTrDA)

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.0500	1.711	02	0.1000	1.374	03	0.5000	1.322	04	1.0000	1.566
05	5.0000	1.481	06	10.0000	1.499	07	15.0000	1.439			

Perfluoroundecanoic acid (PFUnDA)

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.0500	1.101	02	0.1000	1.264	03	0.5000	1.134	04	1.0000	1.224
05	5.0000	1.218	06	10.0000	1.219	07	15.0000	1.201			

Client: Bellingham, City of
Project: Post. Pt. Scan

Service Request: K2109142
Calibration Date: 8/19/2021

Initial Calibration Summary
Per- and Polyfluoroalkyl Substances (PFAS) by LC/MS/MS

Calibration ID: KC2100446
Instrument ID: K-LCMS-06

Signal ID: 1

Analyte Name	Compound Type	Calibration Evaluation				Calibration Evaluation	
		Fit Type	Eval	Eval Result	Control Criteria	Average RRF	Minimum RRF
13C2-6:2 FTS	SURR	Average RF	% RSD	4.9	≤20	0.1085	
13C2-8:2 FTS	SURR	Average RF	% RSD	2.9	≤20	0.05778	
13C2-PFDA	SURR	Average RF	% RSD	3.0	≤20	0.4722	
13C2-PFDoDA	SURR	Average RF	% RSD	4.8	≤20	0.6892	
13C2-PFHxA	SURR	Average RF	% RSD	4.9	≤20	0.741	
13C2-PFTeDA	SURR	Average RF	% RSD	3.7	≤20	0.4664	
13C2-PFUnDA	SURR	Average RF	% RSD	1.1	≤20	0.6292	
13C3-PFBS	SURR	Average RF	% RSD	3.2	≤20	0.1032	
13C4-PFBA	SURR	Average RF	% RSD	2.5	≤20	0.4084	
13C4-PFHpA	SURR	Average RF	% RSD	4.2	≤20	0.7523	
13C4-PFOA	SURR	Average RF	% RSD	2.4	≤20	0.8375	
13C4-PFOS	SURR	Average RF	% RSD	2.2	≤20	0.08747	
13C5-PFNA	SURR	Average RF	% RSD	3.8	≤20	0.6389	
13C5-PFPeA	SURR	Average RF	% RSD	2.0	≤20	0.2691	
13C8-FOSA	SURR	Average RF	% RSD	2.8	≤20	0.297	
18O2-PFHxS	SURR	Average RF	% RSD	6.1	≤20	0.07038	
6:2 Fluorotelomer sulfonic acid (6:2 FTS)	TRG	Average RF	% RSD	7.2	≤20	1.391	
8:2 Fluorotelomer sulfonic acid (8:2 FTS)	TRG	Average RF	% RSD	9.2	≤20	1.163	
D3-MeFOSA	SURR	Average RF	% RSD	2.3	≤20	0.06906	
D5-EtFOSA	SURR	Average RF	% RSD	2.4	≤20	0.07847	
D7-MeFOSE	SURR	Average RF	% RSD	3.3	≤20	0.06906	
D9-EtFOSE	SURR	Average RF	% RSD	3.9	≤20	0.0715	
N-Ethyl perfluorooctane sulfonamide (EtFOSA)	TRG	Average RF	% RSD	6.5	≤20	0.3133	
N-Ethyl perfluorooctane sulfonamidoethanol	TRG	Average RF	% RSD	8.6	≤20	2.288	
N-Methyl perfluorooctane sulfonamide (MeFOSA)	TRG	Average RF	% RSD	6.5	≤20	1.872	
N-Methyl perfluorooctane sulfonamidoethanol	TRG	Average RF	% RSD	3.3	≤20	2.19	
Perfluorobutane sulfonic acid (PFBS)	TRG	Average RF	% RSD	7.5	≤20	1.803	
Perfluorobutanoic acid (PFBA)	TRG	Linear	R2	0.9992	≥0.99	1.126	
Perfluorodecane sulfonic acid (PFDS)	TRG	Average RF	% RSD	12.7	≤20	1.222	
Perfluorodecanoic acid (PFDA)	TRG	Average RF	% RSD	4.2	≤20	1.496	
Perfluorododecanoic acid (PFDoDA)	TRG	Average RF	% RSD	5.9	≤20	0.9729	

Client: Bellingham, City of
Project: Post. Pt. Scan

Service Request: K2109142
Calibration Date: 8/19/2021

Initial Calibration Summary
Per- and Polyfluoroalkyl Substances (PFAS) by LC/MS/MS

Calibration ID: KC2100446
Instrument ID: K-LCMS-06

Signal ID: 1

Analyte Name	Compound Type	Calibration Evaluation				Calibration Evaluation	
		Fit Type	Eval	Eval Result	Control Criteria	Average RRF	Minimum RRF
Perfluoroheptane sulfonic acid (PFHpS)	TRG	Average RF	% RSD	10.0	≤20	2.098	
Perfluoroheptanoic acid (PFHpA)	TRG	Average RF	% RSD	9.3	≤20	1.087	
Perfluorohexane sulfonic acid (PFHxS)	TRG	Linear	R2	0.9986	≥0.99	1.847	
Perfluorohexanoic acid (PFHxA)	TRG	Average RF	% RSD	3.8	≤20	1.355	
Perfluorononanoic acid (PFNA)	TRG	Average RF	% RSD	4.4	≤20	1.234	
Perfluorooctane sulfonamide (FOSA)	TRG	Average RF	% RSD	4.8	≤20	1.271	
Perfluorooctane sulfonic acid (PFOS)	TRG	Average RF	% RSD	12.1	≤20	0.9405	
Perfluorooctanoic acid (PFOA)	TRG	Average RF	% RSD	13.1	≤20	1.537	
Perfluoropentanoic acid (PFPeA)	TRG	Average RF	% RSD	15.3	≤20	3.18	
Perfluorotetradecanoic acid (PFTeDA)	TRG	Average RF	% RSD	4.1	≤20	1.124	
Perfluorotridecanoic acid (PFTrDA)	TRG	Average RF	% RSD	8.6	≤20	1.485	
Perfluoroundecanoic acid (PFUnDA)	TRG	Average RF	% RSD	4.8	≤20	1.194	

Client: Bellingham, City of
Project: Post. Pt. Scan

Service Request: K2109142
Calibration Date: 9/9/2021

Initial Calibration Summary
Per- and Polyfluoroalkyl Substances (PFAS) by LC/MS/MS

Calibration ID: KC2100481
Instrument ID: K-LCMS-06

Signal ID: 1

#	Lab Code	Sample Name	File Location	Acquisition Date
01	KC2100481-01	PFC ICAL @ 0.05ppb	210909_008	09/09/2021 13:55
02	KC2100481-02	PFC ICAL @ 0.10ppb	210909_009	09/09/2021 14:05
03	KC2100481-03	PFC ICAL @ 0.50ppb	210909_010	09/09/2021 14:15
04	KC2100481-04	PFC ICAL @ 1.0ppb	210909_011	09/09/2021 14:26
05	KC2100481-05	PFC ICAL @ 5.0ppb	210909_012	09/09/2021 14:36
06	KC2100481-06	PFC ICAL @ 10ppb	210909_013	09/09/2021 14:47
07	KC2100481-07	PFC ICAL @ 15ppb	210909_015	09/09/2021 15:08

Analyte

13C2-6:2 FTS

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	5.0000	0.1029	02	5.0000	0.09875	03	5.0000	0.1052	04	5.0000	0.1074
05	5.0000	0.09026	06	5.0000	0.09906	07	5.0000	0.09608			

13C2-8:2 FTS

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	5.0000	0.07331	02	5.0000	0.07316	03	5.0000	0.07538	04	5.0000	0.07764
05	5.0000	0.06878	06	5.0000	0.07096	07	5.0000	0.06943			

13C2-PFDA

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	5.0000	0.4471	02	5.0000	0.4589	03	5.0000	0.4697	04	5.0000	0.47
05	5.0000	0.4556	06	5.0000	0.4537	07	5.0000	0.4603			

13C2-PFDoDA

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	5.0000	0.7488	02	5.0000	0.7364	03	5.0000	0.7383	04	5.0000	0.7849
05	5.0000	0.7698	06	5.0000	0.7854	07	5.0000	0.7839			

13C2-PFHxA

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	5.0000	0.5821	02	5.0000	0.606	03	5.0000	0.6098	04	5.0000	0.6333
05	5.0000	0.6314	06	5.0000	0.668	07	5.0000	0.6967			

13C2-PFTeDA

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	5.0000	0.7459	02	5.0000	0.7649	03	5.0000	0.7566	04	5.0000	0.7801
05	5.0000	0.7641	06	5.0000	0.7693	07	5.0000	0.7846			

13C2-PFUnDA

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	5.0000	0.6892	02	5.0000	0.6817	03	5.0000	0.6957	04	5.0000	0.723
05	5.0000	0.6905	06	5.0000	0.6801	07	5.0000	0.688			

13C3-PFBS

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	5.0000	0.1069	02	5.0000	0.1038	03	5.0000	0.1058	04	5.0000	0.1094

Client: Bellingham, City of
Project: Post. Pt. Scan

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Calibration Date: 9/9/2021

Initial Calibration Summary
Per- and Polyfluoroalkyl Substances (PFAS) by LC/MS/MS

Calibration ID: KC2100481
Instrument ID: K-LCMS-06

Signal ID: 1

Analyte

13C3-PFBS

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
05	5.0000	0.1087	06	5.0000	0.1119	07	5.0000	0.1146			

13C4-PFBA

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	5.0000	0.3727	02	5.0000	0.3641	03	5.0000	0.3748	04	5.0000	0.3895
05	5.0000	0.3911	06	5.0000	0.4065	07	5.0000	0.4312			

13C4-PFHpA

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	5.0000	0.5157	02	5.0000	0.5613	03	5.0000	0.56	04	5.0000	0.5631
05	5.0000	0.6119	06	5.0000	0.5816	07	5.0000	0.6216			

13C4-PFOA

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	5.0000	0.739	02	5.0000	0.767	03	5.0000	0.7744	04	5.0000	0.7907
05	5.0000	0.7446	06	5.0000	0.7893	07	5.0000	0.7627			

13C4-PFOS

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	5.0000	0.101	02	5.0000	0.1013	03	5.0000	0.1087	04	5.0000	0.1098
05	5.0000	0.1034	06	5.0000	0.1083	07	5.0000	0.1092			

13C5-PFNA

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	5.0000	0.6554	02	5.0000	0.6327	03	5.0000	0.6749	04	5.0000	0.6821
05	5.0000	0.6217	06	5.0000	0.6705	07	5.0000	0.6873			

13C5-PFPeA

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	5.0000	0.2167	02	5.0000	0.2096	03	5.0000	0.2132	04	5.0000	0.2249
05	5.0000	0.2227	06	5.0000	0.2319	07	5.0000	0.2413			

13C8-FOSA

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	5.0000	0.3073	02	5.0000	0.3118	03	5.0000	0.3134	04	5.0000	0.3132
05	5.0000	0.3172	06	5.0000	0.3297	07	5.0000	0.3336			

18O2-PFHxS

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	5.0000	0.07071	02	5.0000	0.07658	03	5.0000	0.07537	04	5.0000	0.07801
05	5.0000	0.08141	06	5.0000	0.07909	07	5.0000	0.08161			

6:2 Fluorotelomer sulfonic acid (6:2 FTS)

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.0476	1.426	02	0.0951	1.318	03	0.4756	1.283	04	0.9512	1.35
05	4.7558	1.35	06	9.5117	1.207	07	14.2676	1.198			

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8:2 Fluorotelomer sulfonic acid (8:2 FTS)

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.0480	0.9532	02	0.0960	0.9734	03	0.4800	0.9283	04	0.9600	1.043
05	4.8002	0.9929	06	9.6005	0.9099	07	14.4007	0.886			

D3-MeFOSA

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	5.0000	0.06991	02	5.0000	0.06815	03	5.0000	0.06757	04	5.0000	0.07184
05	5.0000	0.07135	06	5.0000	0.07369	07	5.0000	0.077			

D5-EtFOSA

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	5.0000	0.07979	02	5.0000	0.07802	03	5.0000	0.08055	04	5.0000	0.08318
05	5.0000	0.08263	06	5.0000	0.08688	07	5.0000	0.09086			

D7-MeFOSE

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	5.0000	0.1067	02	5.0000	0.1016	03	5.0000	0.1074	04	5.0000	0.1101
05	5.0000	0.1098	06	5.0000	0.1147	07	5.0000	0.1188			

D9-EtFOSE

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	5.0000	0.09772	02	5.0000	0.09963	03	5.0000	0.09916	04	5.0000	0.1046
05	5.0000	0.1039	06	5.0000	0.109	07	5.0000	0.1143			

N-Ethyl perfluorooctane sulfonamide (EtFOSA)

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.0500	0.3444	02	0.1000	0.3048	03	0.5000	0.2863	04	1.0000	0.2896
05	5.0000	0.3004	06	10.0000	0.2984	07	15.0000	0.2974			

N-Ethyl perfluorooctane sulfonamidoethanol

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.0500	1.851	02	0.1000	1.735	03	0.5000	1.677	04	1.0000	1.73
05	5.0000	1.737	06	10.0000	1.682	07	15.0000	1.719			

N-Methyl perfluorooctane sulfonamide (MeFOSA)

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.0500	1.929	02	0.1000	1.98	03	0.5000	1.849	04	1.0000	1.895
05	5.0000	1.878	06	10.0000	1.882	07	15.0000	1.911			

N-Methyl perfluorooctane sulfonamidoethanol

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.0500	1.887	02	0.1000	1.827	03	0.5000	1.72	04	1.0000	1.838
05	5.0000	1.784	06	10.0000	1.738	07	15.0000	1.787			

Perfluorobutane sulfonic acid (PFBS)

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.0444	1.68	02	0.0887	1.712	03	0.4437	1.596	04	0.8874	1.764
05	4.4369	1.681	06	8.8737	1.682	07	13.3106	1.734			

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Calibration Date: 9/9/2021

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Per- and Polyfluoroalkyl Substances (PFAS) by LC/MS/MS

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Perfluorobutanoic acid (PFBA)

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.0500	0.564	02	0.1000	0.8486	03	0.5000	0.9398	04	1.0000	1.046
05	5.0000	1.114	06	10.0000	1.165	07	15.0000	1.175			

Perfluorodecane sulfonic acid (PFDS)

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.0482	1.194	02	0.0965	1.234	03	0.4823	1.01	04	0.9647	1.199
05	4.8233	1.267	06	9.6467	1.146	07	14.4700	1.19			

Perfluorodecanoic acid (PFDA)

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.0500	1.641	02	0.1000	1.379	03	0.5000	1.281	04	1.0000	1.403
05	5.0000	1.378	06	10.0000	1.383	07	15.0000	1.401			

Perfluorododecanoic acid (PFDoDA)

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.0500	0.8633	02	0.1000	0.8934	03	0.5000	0.8903	04	1.0000	0.9297
05	5.0000	0.8699	06	10.0000	0.8858	07	15.0000	0.9011			

Perfluoroheptane sulfonic acid (PFHpS)

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.0477	1.79	02	0.0953	1.649	03	0.4767	1.713	04	0.9534	1.809
05	4.7672	1.629	06	9.5344	1.723	07	14.3016	1.713			

Perfluoroheptanoic acid (PFHpA)

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.0500	1.563	02	0.1000	1.158	03	0.5000	1.076	04	1.0000	1.138
05	5.0000	1.138	06	10.0000	1.169	07	15.0000	1.202			

Perfluorohexane sulfonic acid (PFHxS)

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.0457	2.71	02	0.0913	1.799	03	0.4565	1.547	04	0.9131	1.608
05	4.5654	1.601	06	9.1308	1.563	07	13.6961	1.645			

Perfluorohexanoic acid (PFHxA)

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.0500	1.474	02	0.1000	1.357	03	0.5000	1.166	04	1.0000	1.28
05	5.0000	1.302	06	10.0000	1.274	07	15.0000	1.291			

Perfluorononanoic acid (PFNA)

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.0500	0.9941	02	0.1000	1.097	03	0.5000	0.957	04	1.0000	1.018
05	5.0000	1.041	06	10.0000	1.053	07	15.0000	1.078			

Perfluorooctane sulfonamide (FOSA)

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.0500	1.142	02	0.1000	1.231	03	0.5000	1.128	04	1.0000	1.249
05	5.0000	1.228	06	10.0000	1.206	07	15.0000	1.21			

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Calibration ID: KC2100481
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Analyte

Perfluorooctane sulfonic acid (PFOS)

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.0465	0.8858	02	0.0929	0.9058	03	0.4646	0.9028	04	0.9292	0.9272
05	4.6461	0.9736	06	9.2923	0.9627	07	13.9385	0.9919			

Perfluorooctanoic acid (PFOA)

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.0500	1.678	02	0.1000	1.488	03	0.5000	1.216	04	1.0000	1.318
05	5.0000	1.308	06	10.0000	1.252	07	15.0000	1.337			

Perfluoropentanoic acid (PFPeA)

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.0500	5.201	02	0.1000	4.218	03	0.5000	3.076	04	1.0000	3.186
05	5.0000	3.026	06	10.0000	2.996	07	15.0000	3.097			

Perfluorotetradecanoic acid (PFTeDA)

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.0500	1.266	02	0.1000	1.068	03	0.5000	1.046	04	1.0000	1.098
05	5.0000	1.092	06	10.0000	1.077	07	15.0000	1.103			

Perfluorotridecanoic acid (PFTrDA)

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.0500	0.94	02	0.1000	1.018	03	0.5000	0.991	04	1.0000	1.041
05	5.0000	1.071	06	10.0000	1.036	07	15.0000	1.049			

Perfluoroundecanoic acid (PFUnDA)

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.0500	1.117	02	0.1000	1.129	03	0.5000	1.065	04	1.0000	1.093
05	5.0000	1.076	06	10.0000	1.141	07	15.0000	1.126			

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Initial Calibration Summary
Per- and Polyfluoroalkyl Substances (PFAS) by LC/MS/MS

Calibration ID: KC2100481
Instrument ID: K-LCMS-06

Signal ID: 1

Analyte Name	Compound Type	Calibration Evaluation				Calibration Evaluation	
		Fit Type	Eval	Eval Result	Control Criteria	Average RRF	Minimum RRF
13C2-6:2 FTS	SURR	Average RF	% RSD	5.8	≤20	0.09996	
13C2-8:2 FTS	SURR	Average RF	% RSD	4.4	≤20	0.07267	
13C2-PFDA	SURR	Average RF	% RSD	1.8	≤20	0.4593	
13C2-PFDoDA	SURR	Average RF	% RSD	2.9	≤20	0.7639	
13C2-PFHxA	SURR	Average RF	% RSD	6.2	≤20	0.6325	
13C2-PFTeDA	SURR	Average RF	% RSD	1.7	≤20	0.7665	
13C2-PFUnDA	SURR	Average RF	% RSD	2.1	≤20	0.6926	
13C3-PFBS	SURR	Average RF	% RSD	3.4	≤20	0.1087	
13C4-PFBA	SURR	Average RF	% RSD	5.9	≤20	0.39	
13C4-PFHpA	SURR	Average RF	% RSD	6.2	≤20	0.5736	
13C4-PFOA	SURR	Average RF	% RSD	2.6	≤20	0.7668	
13C4-PFOS	SURR	Average RF	% RSD	3.7	≤20	0.106	
13C5-PFNA	SURR	Average RF	% RSD	3.8	≤20	0.6607	
13C5-PFPeA	SURR	Average RF	% RSD	5.0	≤20	0.2229	
13C8-FOSA	SURR	Average RF	% RSD	3.1	≤20	0.318	
18O2-PFHxS	SURR	Average RF	% RSD	4.9	≤20	0.07754	
6:2 Fluorotelomer sulfonic acid (6:2 FTS)	TRG	Average RF	% RSD	6.3	≤20	1.304	
8:2 Fluorotelomer sulfonic acid (8:2 FTS)	TRG	Average RF	% RSD	5.6	≤20	0.9553	
D3-MeFOSA	SURR	Average RF	% RSD	4.6	≤20	0.07136	
D5-EtFOSA	SURR	Average RF	% RSD	5.3	≤20	0.08313	
D7-MeFOSE	SURR	Average RF	% RSD	5.1	≤20	0.1099	
D9-EtFOSE	SURR	Average RF	% RSD	5.7	≤20	0.1041	
N-Ethyl perfluorooctane sulfonamide (EtFOSA)	TRG	Average RF	% RSD	6.4	≤20	0.303	
N-Ethyl perfluorooctane sulfonamidoethanol	TRG	Average RF	% RSD	3.3	≤20	1.733	
N-Methyl perfluorooctane sulfonamide (MeFOSA)	TRG	Average RF	% RSD	2.2	≤20	1.904	
N-Methyl perfluorooctane sulfonamidoethanol	TRG	Average RF	% RSD	3.2	≤20	1.797	
Perfluorobutane sulfonic acid (PFBS)	TRG	Average RF	% RSD	3.1	≤20	1.693	
Perfluorobutanoic acid (PFBA)	TRG	Linear	R2	0.9992	≥0.99	0.9789	
Perfluorodecane sulfonic acid (PFDS)	TRG	Average RF	% RSD	7.0	≤20	1.177	
Perfluorodecanoic acid (PFDA)	TRG	Average RF	% RSD	7.8	≤20	1.41	
Perfluorododecanoic acid (PFDoDA)	TRG	Average RF	% RSD	2.4	≤20	0.8905	

Client: Bellingham, City of
Project: Post. Pt. Scan

Service Request: K2109142
Calibration Date: 9/9/2021

Initial Calibration Summary
Per- and Polyfluoroalkyl Substances (PFAS) by LC/MS/MS

Calibration ID: KC2100481
Instrument ID: K-LCMS-06

Signal ID: 1

Analyte Name	Compound Type	Calibration Evaluation				Calibration Evaluation	
		Fit Type	Eval	Eval Result	Control Criteria	Average RRF	Minimum RRF
Perfluoroheptane sulfonic acid (PFHpS)	TRG	Average RF	% RSD	3.9	≤20	1.718	
Perfluoroheptanoic acid (PFHpA)	TRG	Average RF	% RSD	13.4	≤20	1.206	
Perfluorohexane sulfonic acid (PFHxS)	TRG	Linear	R2	0.9992	≥0.99	1.782	
Perfluorohexanoic acid (PFHxA)	TRG	Average RF	% RSD	7.2	≤20	1.306	
Perfluorononanoic acid (PFNA)	TRG	Average RF	% RSD	4.7	≤20	1.034	
Perfluorooctane sulfonamide (FOSA)	TRG	Average RF	% RSD	3.9	≤20	1.199	
Perfluorooctane sulfonic acid (PFOS)	TRG	Average RF	% RSD	4.3	≤20	0.9357	
Perfluorooctanoic acid (PFOA)	TRG	Average RF	% RSD	11.7	≤20	1.371	
Perfluoropentanoic acid (PFPeA)	TRG	Linear	R2	0.9997	≥0.99	3.543	
Perfluorotetradecanoic acid (PFTeDA)	TRG	Average RF	% RSD	6.6	≤20	1.107	
Perfluorotridecanoic acid (PFTrDA)	TRG	Average RF	% RSD	4.3	≤20	1.021	
Perfluoroundecanoic acid (PFUnDA)	TRG	Average RF	% RSD	2.6	≤20	1.107	

Client: Bellingham, City of
Project: Post. Pt. Scan

Service Request: K2109142
Calibration Date: 8/19/2021

Initial Calibration Verification Summary
Per- and Polyfluoroalkyl Substances (PFAS) by LC/MS/MS

Calibration ID: KC2100446
Instrument ID: K-LCMS-06

Signal ID: 1

#	Lab Code	Sample Name	File Location	Acquisition Date
08	KC2100446-08	PFC ICV @ 1.0ppb	210819_029	08/19/2021 20:13
09	KC2100446-09	EtFOSAA + MeFOSAA ICV @ 1ppb	210819_030	08/19/2021 20:23

Analyte Name	Expected	Result	Average RF	SSV RF	% D	Criteria	Curve Fit
Perfluorobutane sulfonic acid (PFBS)	0.887	0.972	1.803E0	1.974E0	9.50	±30	Average RF
Perfluorohexane sulfonic acid (PFHxS)	0.913	1.05	1.847E0	1.941E0	14.47	±30	Linear
Perfluoroheptane sulfonic acid (PFHpS)	0.953	1.05	2.098E0	2.318E0	10.44	±30	Average RF
Perfluorooctane sulfonic acid (PFOS)	0.929	0.971	9.405E-1	9.83E-1	4.53	±30	Average RF
Perfluorodecane sulfonic acid (PFDS)	0.965	1.03	1.222E0	1.306E0	6.86	±30	Average RF
Perfluorobutanoic acid (PFBA)	1.00	0.926	1.126E0	1.134E0	-7.376	±30	Linear
Perfluoropentanoic acid (PFPeA)	1.00	0.949	3.18E0	3.018E0	-5.107	±30	Average RF
Perfluorohexanoic acid (PFHxA)	1.00	0.996	1.355E0	1.349E0	-0.422	±30	Average RF
Perfluoroheptanoic acid (PFHpA)	1.00	1.02	1.087E0	1.112E0	2.29	±30	Average RF
Perfluorooctanoic acid (PFOA)	1.00	0.981	1.537E0	1.507E0	-1.927	±30	Average RF
Perfluorononanoic acid (PFNA)	1.00	0.931	1.234E0	1.149E0	-6.889	±30	Average RF
Perfluorodecanoic acid (PFDA)	1.00	1.05	1.496E0	1.571E0	5.06	±30	Average RF
Perfluoroundecanoic acid (PFUnDA)	1.00	1.09	1.194E0	1.302E0	8.98	±30	Average RF
Perfluorododecanoic acid (PFDoDA)	1.00	1.03	9.729E-1	1.002E0	3.00	±30	Average RF
Perfluorotridecanoic acid (PFTrDA)	1.00	1.00	1.485E0	1.489E0	0.318	±30	Average RF
Perfluorotetradecanoic acid (PFTeDA)	1.00	0.992	1.124E0	1.115E0	-0.796	±30	Average RF
Perfluorooctane sulfonamide (FOSA)	1.00	1.06	1.271E0	1.349E0	6.12	±30	Average RF
N-Methyl perfluorooctane sulfonamide (MeFOSA)	1.00	1.02	1.872E0	1.901E0	1.57	±30	Average RF
N-Ethyl perfluorooctane sulfonamide (EtFOSA)	1.00	0.945	3.133E-1	2.96E-1	-5.524	±30	Average RF
N-Methyl perfluorooctane sulfonamidoethanol	1.00	1.08	2.19E0	2.356E0	7.58	±30	Average RF
N-Ethyl perfluorooctane sulfonamidoethanol	1.00	1.07	2.288E0	2.447E0	6.93	±30	Average RF
6:2 Fluorotelomer sulfonic acid (6:2 FTS)	0.951	1.15	1.391E0	1.685E0	21.18	±30	Average RF
8:2 Fluorotelomer sulfonic acid (8:2 FTS)	0.960	1.05	1.163E0	1.273E0	9.42	±30	Average RF

Analyte Name	Expected	Result	Average RF	SSV RF	% D	Criteria	Curve Fit
13C3-PFBS	5.00	4.41	1.032E-1	9.106E-2	-11.784	±30	Average RF
18O2-PFHxS	5.00	4.17	7.038E-2	5.87E-2	-16.593	±30	Average RF
13C4-PFOS	5.00	4.56	8.747E-2	7.969E-2	-8.899	±30	Average RF
13C4-PFBA	5.00	4.52	4.084E-1	3.693E-1	-9.574	±30	Average RF
13C5-PFPeA	5.00	4.55	2.691E-1	2.447E-1	-9.088	±30	Average RF

Client: Bellingham, City of
Project: Post. Pt. Scan

Service Request: K2109142
Calibration Date: 8/19/2021

Initial Calibration Verification Summary
Per- and Polyfluoroalkyl Substances (PFAS) by LC/MS/MS

Calibration ID: KC2100446
Instrument ID: K-LCMS-06

Signal ID: 1

Analyte Name	Expected	Result	Average RF	SSV RF	% D	Criteria	Curve Fit
13C2-PFHxA	5.00	4.38	7.41E-1	6.497E-1	-12.316	±30	Average RF
13C4-PFHpA	5.00	4.27	7.523E-1	6.428E-1	-14.555	±30	Average RF
13C4-PFOA	5.00	4.50	8.375E-1	7.543E-1	-9.942	±30	Average RF
13C5-PFNA	5.00	4.69	6.389E-1	5.997E-1	-6.127	±30	Average RF
13C2-PFDA	5.00	4.72	4.722E-1	4.454E-1	-5.678	±30	Average RF
13C2-PFUnDA	5.00	4.79	6.292E-1	6.023E-1	-4.274	±30	Average RF
13C2-PFDoDA	5.00	4.83	6.892E-1	6.659E-1	-3.376	±30	Average RF
13C2-PFTeDA	5.00	4.81	4.664E-1	4.483E-1	-3.881	±30	Average RF
13C8-FOSA	5.00	4.77	2.97E-1	2.832E-1	-4.643	±30	Average RF
D3-MeFOSA	5.00	4.65	6.906E-2	6.422E-2	-7.006	±30	Average RF
D5-EtFOSA	5.00	4.33	7.847E-2	6.803E-2	-13.301	±30	Average RF
D7-MeFOSE	5.00	4.56	6.906E-2	6.305E-2	-8.705	±30	Average RF
D9-EtFOSE	5.00	4.43	7.15E-2	6.337E-2	-11.371	±30	Average RF
13C2-6:2 FTS	5.00	4.55	1.085E-1	9.88E-2	-8.979	±30	Average RF
13C2-8:2 FTS	5.00	4.71	5.778E-2	5.441E-2	-5.821	±30	Average RF

Client: Bellingham, City of
Project: Post. Pt. Scan

Service Request: K2109142
Calibration Date: 9/9/2021

Initial Calibration Verification Summary
Per- and Polyfluoroalkyl Substances (PFAS) by LC/MS/MS

Calibration ID: KC2100481
Instrument ID: K-LCMS-06

Signal ID: 1

#	Lab Code	Sample Name	File Location	Acquisition Date
08	KC2100481-08	PFC ICV @ 1.0ppb	210909_017	09/09/2021 15:29

Analyte Name	Expected	Result	Average RF	SSV RF	% D	Criteria	Curve Fit
Perfluorobutane sulfonic acid (PFBS)	0.887	0.972	1.693E0	1.854E0	9.53	±30	Average RF
Perfluorohexane sulfonic acid (PFHxS)	0.913	0.822	1.782E0	1.482E0	-9.928	±30	Linear
Perfluoroheptane sulfonic acid (PFHpS)	0.953	1.03	1.718E0	1.858E0	8.14	±30	Average RF
Perfluorooctane sulfonic acid (PFOS)	0.929	1.03	9.357E-1	1.036E0	10.76	±30	Average RF
Perfluorodecane sulfonic acid (PFDS)	0.965	1.10	1.177E0	1.34E0	13.82	±30	Average RF
Perfluorobutanoic acid (PFBA)	1.00	0.963	9.789E-1	1.079E0	-3.726	±30	Linear
Perfluoropentanoic acid (PFPeA)	1.00	1.03	3.543E0	3.238E0	3.06	±30	Linear
Perfluorohexanoic acid (PFHxA)	1.00	0.981	1.306E0	1.282E0	-1.889	±30	Average RF
Perfluoroheptanoic acid (PFHpA)	1.00	1.02	1.206E0	1.23E0	1.99	±30	Average RF
Perfluorooctanoic acid (PFOA)	1.00	0.958	1.371E0	1.313E0	-4.241	±30	Average RF
Perfluorononanoic acid (PFNA)	1.00	1.07	1.034E0	1.106E0	6.95	±30	Average RF
Perfluorodecanoic acid (PFDA)	1.00	0.980	1.41E0	1.381E0	-2.015	±30	Average RF
Perfluoroundecanoic acid (PFUnDA)	1.00	1.05	1.107E0	1.162E0	4.99	±30	Average RF
Perfluorododecanoic acid (PFDoDA)	1.00	1.02	8.905E-1	9.067E-1	1.82	±30	Average RF
Perfluorotridecanoic acid (PFTrDA)	1.00	1.08	1.021E0	1.106E0	8.34	±30	Average RF
Perfluorotetradecanoic acid (PFTeDA)	1.00	1.01	1.107E0	1.12E0	1.13	±30	Average RF
Perfluorooctane sulfonamide (FOSA)	1.00	1.11	1.199E0	1.333E0	11.19	±30	Average RF
N-Methyl perfluorooctane sulfonamide (MeFOSA)	1.00	1.02	1.904E0	1.946E0	2.21	±30	Average RF
N-Ethyl perfluorooctane sulfonamide (EtFOSA)	1.00	0.998	3.03E-1	3.023E-1	-0.238	±30	Average RF
N-Methyl perfluorooctane sulfonamidoethanol	1.00	1.01	1.797E0	1.817E0	1.09	±30	Average RF
N-Ethyl perfluorooctane sulfonamidoethanol	1.00	1.04	1.733E0	1.8E0	3.88	±30	Average RF
6:2 Fluorotelomer sulfonic acid (6:2 FTS)	0.951	1.11	1.304E0	1.529E0	17.20	±30	Average RF
8:2 Fluorotelomer sulfonic acid (8:2 FTS)	0.960	1.08	9.553E-1	1.078E0	12.87	±30	Average RF

Analyte Name	Expected	Result	Average RF	SSV RF	% D	Criteria	Curve Fit
13C3-PFBS	5.00	4.57	1.087E-1	9.928E-2	-8.673	±30	Average RF
18O2-PFHxS	5.00	4.68	7.754E-2	7.25E-2	-6.493	±30	Average RF
13C4-PFOS	5.00	4.53	1.06E-1	9.6E-2	-9.399	±30	Average RF
13C4-PFBA	5.00	4.56	3.9E-1	3.56E-1	-8.717	±30	Average RF
13C5-PFPeA	5.00	4.55	2.229E-1	2.028E-1	-8.997	±30	Average RF
13C2-PFHxA	5.00	4.63	6.325E-1	5.857E-1	-7.398	±30	Average RF

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client: Bellingham, City of
Project: Post. Pt. Scan

Service Request: K2109142
Calibration Date: 9/9/2021

Initial Calibration Verification Summary
Per- and Polyfluoroalkyl Substances (PFAS) by LC/MS/MS

Calibration ID: KC2100481
Instrument ID: K-LCMS-06

Signal ID: 1

Analyte Name	Expected	Result	Average RF	SSV RF	% D	Criteria	Curve Fit
13C4-PFHpA	5.00	4.56	5.736E-1	5.226E-1	-8.880	±30	Average RF
13C4-PFOA	5.00	4.59	7.668E-1	7.036E-1	-8.250	±30	Average RF
13C5-PFNA	5.00	4.62	6.607E-1	6.102E-1	-7.644	±30	Average RF
13C2-PFDA	5.00	4.63	4.593E-1	4.25E-1	-7.464	±30	Average RF
13C2-PFUnDA	5.00	4.68	6.926E-1	6.478E-1	-6.460	±30	Average RF
13C2-PFDoDA	5.00	4.50	7.639E-1	6.871E-1	-10.057	±30	Average RF
13C2-PFTeDA	5.00	4.60	7.665E-1	7.05E-1	-8.029	±30	Average RF
13C8-FOSA	5.00	4.61	3.18E-1	2.93E-1	-7.883	±30	Average RF
D3-MeFOSA	5.00	4.53	7.136E-2	6.468E-2	-9.353	±30	Average RF
D5-EtFOSA	5.00	4.39	8.313E-2	7.305E-2	-12.127	±30	Average RF
D7-MeFOSE	5.00	4.67	1.099E-1	1.027E-1	-6.567	±30	Average RF
D9-EtFOSE	5.00	4.46	1.041E-1	9.287E-2	-10.745	±30	Average RF
13C2-6:2 FTS	5.00	4.58	9.996E-2	9.151E-2	-8.456	±30	Average RF
13C2-8:2 FTS	5.00	4.49	7.267E-2	6.527E-2	-10.174	±30	Average RF

Client:	Bellingham, City of	**Service Request:**	K2109142
Project:	Post. Pt. Scan	**Date Analyzed:**	08/23/21 16:49

Continuing Calibration Verification (CCV) Summary
Per- and Polyfluoroalkyl Substances (PFAS) by LC/MS/MS

Analysis Method:	PFC/537M	**Calibration Date:**	8/19/2021
File ID:	J:\LCMS06\Data\210823_B3\210823_007	**Calibration ID:**	KC2100446
Signal ID:	1	**Analysis Lot:**	736760
		Units:	ng/mL

Analyte Name	Expected	Result	Average RF	CCV RF	Rec.	% Drift	Criteria	Curve Fit
Perfluorobutane sulfonic acid (PFBS)	0.887	1.01	1.8025	2.0603	114	NA	±30	Average RF
Perfluorohexane sulfonic acid (PFHxS)	0.913	0.903	1.8475	1.6812	98.8	-1.2	±30	Linear
Perfluoroheptane sulfonic acid (PFHpS)	0.953	0.826	2.0985	1.8188	86.7	NA	±30	Average RF
Perfluorooctane sulfonic acid (PFOS)	0.929	0.940	0.9405	0.9518	101	NA	±30	Average RF
Perfluorodecane sulfonic acid (PFDS)	0.965	0.991	1.2218	1.2551	103	NA	±30	Average RF
Perfluorobutanoic acid (PFBA)	1.00	1.05	1.126	1.2858	105	4.7	±30	Linear
Perfluoropentanoic acid (PFPeA)	1.00	0.990	3.18	3.1482	99.0	NA	±30	Average RF
Perfluorohexanoic acid (PFHxA)	1.00	1.10	1.3547	1.4889	110	NA	±30	Average RF
Perfluoroheptanoic acid (PFHpA)	1.00	0.999	1.0873	1.0857	99.9	NA	±30	Average RF
Perfluorooctanoic acid (PFOA)	1.00	1.01	1.5368	1.5525	101	NA	±30	Average RF
Perfluorononanoic acid (PFNA)	1.00	0.994	1.2342	1.2267	99.4	NA	±30	Average RF
Perfluorodecanoic acid (PFDA)	1.00	1.05	1.4955	1.575	105	NA	±30	Average RF
Perfluoroundecanoic acid (PFUnDA)	1.00	1.02	1.1944	1.218	102	NA	±30	Average RF
Perfluorododecanoic acid (PFDoDA)	1.00	1.13	0.9729	1.1034	113	NA	±30	Average RF
Perfluorotridecanoic acid (PFTrDA)	1.00	1.05	1.4845	1.5606	105	NA	±30	Average RF
Perfluorotetradecanoic acid (PFTeDA)	1.00	0.977	1.1241	1.0981	97.7	NA	±30	Average RF
Perfluorooctane sulfonamide (FOSA)	1.00	1.06	1.2708	1.3468	106	NA	±30	Average RF
N-Methyl perfluorooctane sulfonamide (MeFOSA)	1.00	1.03	1.8717	1.9325	103	NA	±30	Average RF
N-Ethyl perfluorooctane sulfonamide (EtFOSA)	1.00	0.991	0.3133	0.3105	99.1	NA	±30	Average RF
N-Methyl perfluorooctane sulfonamidoethanol	1.00	1.25	2.1897	2.739	125	NA	±30	Average RF
N-Ethyl perfluorooctane sulfonamidoethanol	1.00	1.02	2.288	2.3431	102	NA	±30	Average RF
6:2 Fluorotelomer sulfonic acid (6:2 FTS)	0.951	1.13	1.3907	1.6479	118	NA	±30	Average RF
8:2 Fluorotelomer sulfonic acid (8:2 FTS)	0.960	1.02	1.163	1.2339	106	NA	±30	Average RF

Analyte Name	Expected	Result	Average RF	CCV RF	Rec.	% Drift	Criteria	Curve Fit
13C3-PFBS	5.00	5.09	0.1032	0.1051	102	NA	±30	Average RF
18O2-PFHxS	5.00	6.22	0.0704	0.0876	124	NA	±30	Average RF
13C4-PFOS	5.00	5.62	0.0875	0.0983	112	NA	±30	Average RF
13C4-PFBA	5.00	6.07	0.4084	0.4961	121	NA	±30	Average RF
13C5-PFPeA	5.00	6.02	0.2691	0.3239	120	NA	±30	Average RF

Client:	Bellingham, City of	**Service Request:**	K2109142
Project:	Post. Pt. Scan	**Date Analyzed:**	08/23/21 16:49

Continuing Calibration Verification (CCV) Summary
Per- and Polyfluoroalkyl Substances (PFAS) by LC/MS/MS

Analysis Method:	PFC/537M	**Calibration Date:**	8/19/2021
File ID:	J:\LCMS06\Data\210823_B3\210823_007	**Calibration ID:**	KC2100446
Signal ID:	1	**Analysis Lot:**	736760
		Units:	ng/mL

13C2-PFHxA	5.00	5.35	0.741	0.7928	107	NA	±30	Average RF
13C4-PFHpA	5.00	5.77	0.7523	0.8686	115	NA	±30	Average RF
13C4-PFOA	5.00	4.79	0.8375	0.8031	95.9	NA	±30	Average RF
13C5-PFNA	5.00	4.89	0.6389	0.6245	97.7	NA	±30	Average RF
13C2-PFDA	5.00	5.29	0.4722	0.5	106	NA	±30	Average RF
13C2-PFUnDA	5.00	5.05	0.6292	0.6358	101	NA	±30	Average RF
13C2-PFDoDA	5.00	4.84	0.6892	0.6677	96.9	NA	±30	Average RF
13C2-PFTeDA	5.00	5.22	0.4664	0.4872	104	NA	±30	Average RF
13C8-FOSA	5.00	5.05	0.297	0.2999	101	NA	±30	Average RF
D3-MeFOSA	5.00	5.76	0.0691	0.0796	115	NA	±30	Average RF
D5-EtFOSA	5.00	5.69	0.0785	0.0893	114	NA	±30	Average RF
D7-MeFOSE	5.00	5.33	0.0691	0.0736	107	NA	±30	Average RF
D9-EtFOSE	5.00	6.15	0.0715	0.088	123	NA	±30	Average RF
13C2-6:2 FTS	5.00	4.38	0.1085	0.0951	87.6	NA	±30	Average RF
13C2-8:2 FTS	5.00	5.50	0.0578	0.0636	110	NA	±30	Average RF

Client:	Bellingham, City of	**Service Request:**	K2109142
Project:	Post. Pt. Scan	**Date Analyzed:**	09/14/21 13:31

Continuing Calibration Verification (CCV) Summary
Per- and Polyfluoroalkyl Substances (PFAS) by LC/MS/MS

Analysis Method:	PFC/537M	**Calibration Date:**	9/9/2021
File ID:	J:\LCMS06\Data\210914_B1\210914_015	**Calibration ID:**	KC2100481
Signal ID:	1	**Analysis Lot:**	738712
		Units:	ng/mL

Analyte Name	Expected	Result	Average RF	CCV RF	Rec.	% Drift	Criteria	Curve Fit
Perfluorobutane sulfonic acid (PFBS)	0.887	0.965	1.6926	1.8398	109	NA	±30	Average RF
Perfluorohexane sulfonic acid (PFHxS)	0.913	0.850	1.7819	1.5298	93.1	-6.9	±30	Linear
Perfluoroheptane sulfonic acid (PFHpS)	0.953	0.946	1.7179	1.7053	99.3	NA	±30	Average RF
Perfluorooctane sulfonic acid (PFOS)	0.929	0.949	0.9357	0.9559	102	NA	±30	Average RF
Perfluorodecane sulfonic acid (PFDS)	0.965	1.02	1.1772	1.2481	106	NA	±30	Average RF
Perfluorobutanoic acid (PFBA)	1.00	0.997	0.9789	1.1189	99.7	-0.3	±30	Linear
Perfluoropentanoic acid (PFPeA)	1.00	1.05	3.5429	3.3016	105	5.1	±30	Linear
Perfluorohexanoic acid (PFHxA)	1.00	0.923	1.3065	1.2052	92.3	NA	±30	Average RF
Perfluoroheptanoic acid (PFHpA)	1.00	0.961	1.2063	1.1589	96.1	NA	±30	Average RF
Perfluorooctanoic acid (PFOA)	1.00	1.03	1.3709	1.4069	103	NA	±30	Average RF
Perfluorononanoic acid (PFNA)	1.00	1.05	1.034	1.0831	105	NA	±30	Average RF
Perfluorodecanoic acid (PFDA)	1.00	1.07	1.4095	1.5104	107	NA	±30	Average RF
Perfluoroundecanoic acid (PFUnDA)	1.00	0.988	1.1067	1.0933	98.8	NA	±30	Average RF
Perfluorododecanoic acid (PFDoDA)	1.00	1.14	0.8905	1.0133	114	NA	±30	Average RF
Perfluorotridecanoic acid (PFTrDA)	1.00	1.21	1.0209	1.2306	121	NA	±30	Average RF
Perfluorotetradecanoic acid (PFTeDA)	1.00	0.952	1.1071	1.0544	95.2	NA	±30	Average RF
Perfluorooctane sulfonamide (FOSA)	1.00	1.01	1.1991	1.2125	101	NA	±30	Average RF
N-Methyl perfluorooctane sulfonamide (MeFOSA)	1.00	1.14	1.9036	2.1779	114	NA	±30	Average RF
N-Ethyl perfluorooctane sulfonamide (EtFOSA)	1.00	0.983	0.303	0.298	98.3	NA	±30	Average RF
N-Methyl perfluorooctane sulfonamidoethanol	1.00	1.16	1.7973	2.0923	116	NA	±30	Average RF
N-Ethyl perfluorooctane sulfonamidoethanol	1.00	0.942	1.733	1.6318	94.2	NA	±30	Average RF
6:2 Fluorotelomer sulfonic acid (6:2 FTS)	0.951	1.04	1.3045	1.4229	109	NA	±30	Average RF
8:2 Fluorotelomer sulfonic acid (8:2 FTS)	0.960	1.02	0.9553	1.0128	106	NA	±30	Average RF

Analyte Name	Expected	Result	Average RF	CCV RF	Rec.	% Drift	Criteria	Curve Fit
13C3-PFBS	5.00	4.75	0.1087	0.1033	95.0	NA	±30	Average RF
18O2-PFHxS	5.00	5.69	0.0775	0.0882	114	NA	±30	Average RF
13C4-PFOS	5.00	5.48	0.106	0.1161	110	NA	±30	Average RF
13C4-PFBA	5.00	5.14	0.39	0.4012	103	NA	±30	Average RF
13C5-PFPeA	5.00	5.09	0.2229	0.227	102	NA	±30	Average RF

Client:	Bellingham, City of	**Service Request:**	K2109142
Project:	Post. Pt. Scan	**Date Analyzed:**	09/14/21 13:31

Continuing Calibration Verification (CCV) Summary
Per- and Polyfluoroalkyl Substances (PFAS) by LC/MS/MS

Analysis Method:	PFC/537M	**Calibration Date:**	9/9/2021
File ID:	J:\LCMS06\Data\210914_B1\210914_015	**Calibration ID:**	KC2100481
Signal ID:	1	**Analysis Lot:**	738712
		Units:	ng/mL

13C2-PFHxA	5.00	4.87	0.6325	0.6154	97.3	NA	±30	Average RF
13C4-PFHpA	5.00	5.31	0.5736	0.6087	106	NA	±30	Average RF
13C4-PFOA	5.00	5.25	0.7668	0.8059	105	NA	±30	Average RF
13C5-PFNA	5.00	5.26	0.6607	0.6955	105	NA	±30	Average RF
13C2-PFDA	5.00	5.95	0.4593	0.547	119	NA	±30	Average RF
13C2-PFUnDA	5.00	5.20	0.6926	0.7206	104	NA	±30	Average RF
13C2-PFDoDA	5.00	5.09	0.7639	0.7783	102	NA	±30	Average RF
13C2-PFTeDA	5.00	4.61	0.7665	0.7064	92.2	NA	±30	Average RF
13C8-FOSA	5.00	5.11	0.318	0.3251	102	NA	±30	Average RF
D3-MeFOSA	5.00	4.46	0.0714	0.0636	89.1	NA	±30	Average RF
D5-EtFOSA	5.00	4.89	0.0831	0.0812	97.7	NA	±30	Average RF
D7-MeFOSE	5.00	4.01	0.1099	0.0882	80.2	NA	±30	Average RF
D9-EtFOSE	5.00	4.79	0.1041	0.0996	95.7	NA	±30	Average RF
13C2-6:2 FTS	5.00	6.78	0.1	0.1356	136*	NA	±30	Average RF
13C2-8:2 FTS	5.00	7.41	0.0727	0.1077	148*	NA	±30	Average RF

Client: Bellingham, City of **Service Request:**K2109142
Project: Post. Pt. Scan

Analysis Run Log
Per- and Polyfluoroalkyl Substances (PFAS) by LC/MS/MS

Analysis Method: PFC/537M **Analysis Lot:**736760
Instrument ID:K-LCMS-06

Raw Data File	Sample Name	Lab Code	Date Analyzed	Time Analyzed	Q
J:\LCMS06\Data\210823_B3\210823_007	Continuing Calibration Verification	KQ2116601-01	8/23/2021	16:49	
J:\LCMS06\Data\210823_B3\210823_007	ZZZZZZZ	ZZZZZZZ	8/23/2021	16:49	
J:\LCMS06\Data\210823_B3\210823_008	Continuing Calibration Blank	KQ2116601-02	8/23/2021	16:59	
J:\LCMS06\Data\210823_B3\210823_008	ZZZZZZZ	ZZZZZZZ	8/23/2021	16:59	
J:\LCMS06\Data\210823_B3\210823_017	Method Blank	KQ2115525-04	8/23/2021	19:05	
J:\LCMS06\Data\210823_B3\210823_018	Lab Control Sample	KQ2115525-03	8/23/2021	19:16	
J:\LCMS06\Data\210823_B3\210823_019	ZZZZZZZ	ZZZZZZZ	8/23/2021	19:26	
J:\LCMS06\Data\210823_B3\210823_020	ZZZZZZZ	ZZZZZZZ	8/23/2021	19:36	
J:\LCMS06\Data\210823_B3\210823_021	ZZZZZZZ	ZZZZZZZ	8/23/2021	19:47	
J:\LCMS06\Data\210823_B3\210823_022	ZZZZZZZ	ZZZZZZZ	8/23/2021	19:57	
J:\LCMS06\Data\210823_B3\210823_023	ZZZZZZZ	ZZZZZZZ	8/23/2021	20:08	
J:\LCMS06\Data\210823_B3\210823_024	ZZZZZZZ	ZZZZZZZ	8/23/2021	20:18	
J:\LCMS06\Data\210823_B3\210823_025	ZZZZZZZ	ZZZZZZZ	8/23/2021	20:29	
J:\LCMS06\Data\210823_B3\210823_026	ZZZZZZZ	ZZZZZZZ	8/23/2021	20:39	
J:\LCMS06\Data\210823_B3\210823_027	ZZZZZZZ	ZZZZZZZ	8/23/2021	20:50	
J:\LCMS06\Data\210823_B3\210823_028	ZZZZZZZ	ZZZZZZZ	8/23/2021	21:00	
J:\LCMS06\Data\210823_B3\210823_029	ZZZZZZZ	ZZZZZZZ	8/23/2021	21:11	
J:\LCMS06\Data\210823_B3\210823_030	ZZZZZZZ	ZZZZZZZ	8/23/2021	21:21	
J:\LCMS06\Data\210823_B3\210823_031	ZZZZZZZ	ZZZZZZZ	8/23/2021	21:31	
J:\LCMS06\Data\210823_B3\210823_032	Final Effluent	K2109142-001	8/23/2021	21:42	
J:\LCMS06\Data\210823_B3\210823_033	ZZZZZZZ	ZZZZZZZ	8/23/2021	21:52	
J:\LCMS06\Data\210823_B3\210823_034	ZZZZZZZ	ZZZZZZZ	8/23/2021	22:03	
J:\LCMS06\Data\210823_B3\210823_035	ZZZZZZZ	ZZZZZZZ	8/23/2021	22:13	
J:\LCMS06\Data\210823_B3\210823_036	ZZZZZZZ	ZZZZZZZ	8/23/2021	22:24	
J:\LCMS06\Data\210823_B3\210823_037	ZZZZZZZ	ZZZZZZZ	8/23/2021	22:34	
J:\LCMS06\Data\210823_B3\210823_038	ZZZZZZZ	ZZZZZZZ	8/23/2021	22:45	
J:\LCMS06\Data\210823_B3\210823_039	ZZZZZZZ	ZZZZZZZ	8/23/2021	22:55	
J:\LCMS06\Data\210823_B3\210823_044	ZZZZZZZ	ZZZZZZZ	8/23/2021	23:47	
J:\LCMS06\Data\210823_B3\210823_045	ZZZZZZZ	ZZZZZZZ	8/23/2021	23:58	
J:\LCMS06\Data\210823_B3\210823_046	ZZZZZZZ	ZZZZZZZ	8/24/2021	00:08	
J:\LCMS06\Data\210823_B3\210823_047	ZZZZZZZ	ZZZZZZZ	8/24/2021	00:19	
J:\LCMS06\Data\210823_B3\210823_048	ZZZZZZZ	ZZZZZZZ	8/24/2021	00:29	
J:\LCMS06\Data\210823_B3\210823_049	ZZZZZZZ	ZZZZZZZ	8/24/2021	00:40	
J:\LCMS06\Data\210823_B3\210823_050	ZZZZZZZ	ZZZZZZZ	8/24/2021	00:50	
J:\LCMS06\Data\210823_B3\210823_051	ZZZZZZZ	ZZZZZZZ	8/24/2021	01:00	
J:\LCMS06\Data\210823_B3\210823_052	ZZZZZZZ	ZZZZZZZ	8/24/2021	01:11	
J:\LCMS06\Data\210823_B3\210823_053	ZZZZZZZ	ZZZZZZZ	8/24/2021	01:21	
J:\LCMS06\Data\210823_B3\210823_054	ZZZZZZZ	ZZZZZZZ	8/24/2021	01:32	
J:\LCMS06\Data\210823_B3\210823_055	ZZZZZZZ	ZZZZZZZ	8/24/2021	01:42	
J:\LCMS06\Data\210823_B3\210823_056	ZZZZZZZ	ZZZZZZZ	8/24/2021	01:53	
J:\LCMS06\Data\210823_B3\210823_057	ZZZZZZZ	ZZZZZZZ	8/24/2021	02:03	
J:\LCMS06\Data\210823_B3\210823_058	ZZZZZZZ	ZZZZZZZ	8/24/2021	02:14	
J:\LCMS06\Data\210823_B3\210823_059	ZZZZZZZ	ZZZZZZZ	8/24/2021	02:24	
J:\LCMS06\Data\210823_B3\210823_060	ZZZZZZZ	ZZZZZZZ	8/24/2021	02:35	
J:\LCMS06\Data\210823_B3\210823_061	ZZZZZZZ	ZZZZZZZ	8/24/2021	02:45	
J:\LCMS06\Data\210823_B3\210823_062	ZZZZZZZ	ZZZZZZZ	8/24/2021	02:55	

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client: Bellingham, City of **Service Request:**K2109142
Project: Post. Pt. Scan

Analysis Run Log
Per- and Polyfluoroalkyl Substances (PFAS) by LC/MS/MS

Analysis Method: PFC/537M **Analysis Lot:**736760
Instrument ID:K-LCMS-06

Raw Data File	Sample Name	Lab Code	Date Analyzed	Time Analyzed	Q
J:\LCMS06\Data\210823_B3\210823_063	ZZZZZZZ	ZZZZZZZ	8/24/2021	03:06	
J:\LCMS06\Data\210823_B3\210823_064	ZZZZZZZ	ZZZZZZZ	8/24/2021	03:16	
J:\LCMS06\Data\210823_B3\210823_065	ZZZZZZZ	ZZZZZZZ	8/24/2021	03:27	
J:\LCMS06\Data\210823_B3\210823_066	ZZZZZZZ	ZZZZZZZ	8/24/2021	03:37	

Client: Bellingham, City of **Service Request:**K2109142
Project: Post. Pt. Scan

Analysis Run Log
Per- and Polyfluoroalkyl Substances (PFAS) by LC/MS/MS

Analysis Method: PFC/537M **Analysis Lot:**738712
Instrument ID:K-LCMS-06

Raw Data File	Sample Name	Lab Code	Date Analyzed	Time Analyzed	Q
J:\LCMS06\Data\210914_B1\210914_015	Continuing Calibration Verification	KQ2117883-01	9/14/2021	13:31	
J:\LCMS06\Data\210914_B1\210914_016	Continuing Calibration Blank	KQ2117883-02	9/14/2021	13:42	
J:\LCMS06\Data\210914_B1\210914_017	Method Blank	KQ2115544-04	9/14/2021	13:52	
J:\LCMS06\Data\210914_B1\210914_018	Lab Control Sample	KQ2115544-05	9/14/2021	14:03	
J:\LCMS06\Data\210914_B1\210914_019	Duplicate Lab Control Sample	KQ2115544-06	9/14/2021	14:13	
J:\LCMS06\Data\210914_B1\210914_020	ZZZZZZZ	ZZZZZZZ	9/14/2021	14:24	
J:\LCMS06\Data\210914_B1\210914_021	ZZZZZZZ	ZZZZZZZ	9/14/2021	14:34	
J:\LCMS06\Data\210914_B1\210914_022	Incin. Feed	K2109142-002	9/14/2021	14:45	
J:\LCMS06\Data\210914_B1\210914_023	Incin. Feed MS	KQ2115544-01	9/14/2021	14:55	
J:\LCMS06\Data\210914_B1\210914_024	Incin. Feed DMS	KQ2115544-02	9/14/2021	15:06	

Prep Summary Report

Client: Bellingham, City of **Service Request:** K2109142
Project: Post. Pt. Scan
Sample Matrix: Water

Per- and Polyfluoroalkyl Substances (PFAS) by LC/MS/MS

Prep Method: ALS SOP **Extraction Lot:** 385310
Analytical Method: PFC/537M **Extraction Date:** 08/18/21 09:55

Sample Name	Lab Code	Date Collected	Date Received	Sample Amount	Final Amount	Percent Solids
Final Effluent	K2109142-001	8/5/21	8/6/21	300.0000 mL	8 mL	
Lab Control Sample	KQ2115525-03LCS	NA	NA	250 mL	8 mL	
Method Blank	KQ2115525-04MB	NA	NA	250 mL	8 mL	

Prep Summary Report

Client: Bellingham, City of **Service Request:**K2109142
Project: Post. Pt. Scan
Sample Matrix: Soil

Per- and Polyfluoroalkyl Substances (PFAS) by LC/MS/MS

Prep Method: ALS SOP **Extraction Lot:** 385318
Analytical Method: PFC/537M **Extraction Date:** 08/31/21 17:32

Sample Name	Lab Code	Date Collected	Date Received	Sample Amount	Final Amount	Percent Solids
Incin. Feed	K2109142-002	8/5/21	8/6/21	1.059 g	8 mL	20.9
Matrix Spike	KQ2115544-01MS	8/5/21	8/6/21	1.132 g	8 mL	20.9
Duplicate Matrix Spike	KQ2115544-02DMS	8/5/21	8/6/21	1.225 g	8 mL	20.9
Method Blank	KQ2115544-04MB	NA	NA	1 g	8 mL	
Lab Control Sample	KQ2115544-05LCS	NA	NA	1 g	8 mL	
Duplicate Lab Control Sample	KQ2115544-06DLCS	NA	NA	1 g	8 mL	

Subcontract Lab Results

ALS Environmental—Kelso Laboratory
1317 South 13th Avenue, Kelso, WA 98626
Phone (360)577-7222 Fax (360)636-1068
www.alsglobal.com

Contact: Sydney Wolf
Company: ALS Environmental
Address: 1317 South 13th Avenue,
Kelso, WA 98626

Project / Location: K2109142
PO Number: 51-K2109142
ALS Work Order: 21080358

NARRATIVE: This method was based on the study, "Synthetic Polymer Contamination in Bottled Water" conducted at the State University of New York at Fredonia which found an average of 325 MPP/L in bottled water brands from around the globe. The efficacy of this method for the detection of MPP in non-potable waters or other matrices has not been determined. Samples were analyzed according to ALS SOP Micro-Fluor-001 for the detection of micro plastic particles (MPP) using fluorescent tagging and static image analysis. This method has been shown to be sufficient for the rapid detection of polymerics including polyethylene, polypropylene, polystyrene and nylon 6 though it cannot differentiate between them.
Particle sizing is performed using static image analysis of representative calibrated two dimensional photomicrographs. Minimum caliper represents the shortest distance between any 2 points along a single particle boundary and may be considered the approximate diameter or width of an object depending upon its predominant morphology. Maximum caliper is the longest distance between any 2 points along a single particle boundary and may be considered the approximate length of an object. The smallest dimension which can be confidently resolved by this method at the lowest available magnification representing the largest imaged area has been determined to be approximately 6.5µm. Particles >5mm fall outside the general definition of micro plastics. Therefore, the total MPP reported includes only particles identified as polymeric via fluorescence whose DOI measures >6.5µm<5mm. The dimension of interest (DOI) shall be selected based on observation of dominant particle morphology and determines the units reported herein. Samples containing primarily fibrous MPP exhibiting an aspect ratio $\geq$3:1 shall be categorized according to maximum caliper (length). Samples containing primarily circular MPP shall be categorized according to minimum caliper (diameter/width). Samples containing a mixture of MPP morphologies including but not limited to fibrous, circular, amorphous, and agglomerated shall be categorized according to total area in square µm or mm.
The analytical sensitivity (AS) for this method is based on the detection of one particle in the total area analyzed. When possible, sufficient sample is analyzed to yield an AS<10 MPP/L. However, the volume of sample that can be analyzed is dependent upon purity. Therefore, samples containing significant concentrations of interferences may not attain the desired AS. Interferences such as opaque solids may result in a negative bias and lipid-rich interferences such as fats, waxes, and oils may result in a positive bias. All sample collection is performed outside ALS and is the sole responsibility of the client. Filtered samples are archived for 60 days prior to disposal. Results apply only to portions analyzed. Microscopy is not suitable for the examination of all types of materials. Additional testing may be required.

NOTE: The client submitted one effluent water sample with high lipid content limiting the amount of sample that could be analyzed.

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IDENTIFICATION

Client Sample ID:	K2109142-001
ALS Sample ID:	21080358-01

ANALYSIS

Analyst:	Pamela Hizar
Date:	8/11/2021
Filtered Volume (mL):	25
AS (MPP/L):	53.51
DOI:	DIAMETER

CONCENTRATION (MPP/L)

>6.5≤10µm:	642.09
>10≤100µm:	1,230.67
>100≤500µm:	107.01
>500µm≤1mm:	0.00
>1≤5mm:	0.00
TOTAL:	**1,979.77**

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SVOC DATA PACKAGE

Client Project Information

Project ID: K2109142
Project Description:
Contact: Sydney Wolf

ALSE Project Information

Project ID: ALS880
Contact: Claire Kocharakkal
Submission ID(s): L2625428-1

Final Package Review by:

Date Reviewed: 17-Nov-21

1435 Norjohn Court, Unit 1, Burlington, ON, Canada L7L 0E6

SVOC DATA PACKAGE

SECTION 1: PROJECT NARRATIVE

ALSE Project Information

Project ID: ALS880
Contact: Claire Kocharakkal
Submission ID(s): L2625428-1

Client Project Information

Project ID: K2109142
Project Description:
Contact: Sydney Wolf

Analytical Method: PCDD/F by EPA 1613B via Isotope Dilution

ALS Sample ID	Client Sample Descriptions	Matrix	Date Sampled	Date Received	Date Extracted	Date Analyzed
L2625428-1	FINAL EFFLUENT	Water	04-Aug-21	10-Aug-21	07-Sep-21	09-Oct-21
WG3603564-1	Method Blank	QC	n/a	n/a	07-Sep-21	09-Oct-21
WG3603564-2	Laboratory Control Sample	QC	n/a	n/a	07-Sep-21	09-Oct-21

Comments and Notes:
a) Sample Integrity:

The sample was received in good condition at 3.8 degrees C.

b) Instrumental Analysis:

For the continuing calibration verifications (CCVs) the recoveries of the labelled standard(s) 13C12-1,2,3,4,7,8-HxCDD and/or 13C12-1,2,3,4,7,8-HxCDF were below the method control limits. As a result, the reported recoveries of these standards may be biased low. Neither of the associated targets have been detected in the sample.

I certify that this data package is in compliance with the terms and condition of the contract , both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this data package (hardcopy and/or electronic version) has been authorized by the Laboratory Manager or his designee, as verified by the following signature.

Steve Kennedy, Technical Supervisor

17-Nov-21
Date

1435 Norjohn Court, Unit 1, Burlington, ON, Canada L7L 0E6

SVOC DATA PACKAGE

SECTION 2: DATA SUMMARY REPORT

1435 Norjohn Court, Unit 1, Burlington, ON, Canada L7L 0E6
Phone: 905-331-3111, FAX: 905-331-4567

Certificate of Analysis

ALS Project Contact:	Claire Kocharakkal	**Client Name:**	ALS Environmental - Kelso
ALS Project ID:	ALS880	**Client Address:**	1317 South 13th Avenue
ALS WO#:	L2625428-1		Kelso, WA
Date of Report	18-Nov-21		98626
Date of Sample Receipt	10-Aug-21	**Client Contact:**	Sydney Wolf
		Client Project ID:	K2109142

COMMENTS: **PCDD/F by EPA 1613B via Isotope Dilution**

Certified by:

Steve Kennedy, C.Chem.
Technical Supervisor

Results in this certificate relate only to the samples as submitted to the laboratory.
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ALS Life Sciences

Sample Analysis Summary Report

Sample Name	FINAL EFFLUENT
ALS Sample ID	L2625428-1
Sample Size	1.10
Sample size units	L
Percent Moisture	n/a
Sample Matrix	Water
Sampling Date	4-Aug-21
Extraction Date	7-Sep-21

Target Analytes	pg/L
2,3,7,8-TCDD	<0.72
1,2,3,7,8-PeCDD	<0.77
1,2,3,4,7,8-HxCDD	<1.6
1,2,3,6,7,8-HxCDD	<1.4
1,2,3,7,8,9-HxCDD	<1.5
1,2,3,4,6,7,8-HpCDD	<3.0
OCDD	38.6
2,3,7,8-TCDF	<0.65
1,2,3,7,8-PeCDF	<0.65
2,3,4,7,8-PeCDF	<0.55
1,2,3,4,7,8-HxCDF	<1.0
1,2,3,6,7,8-HxCDF	<0.95
2,3,4,6,7,8-HxCDF	<1.1
1,2,3,7,8,9-HxCDF	<1.7
1,2,3,4,6,7,8-HpCDF	<1.1
1,2,3,4,7,8,9-HpCDF	<2.0
OCDF	17.5
Extraction Standards	**% Rec**
13C12-2,3,7,8-TCDD	62
13C12-1,2,3,7,8-PeCDD	47
13C12-1,2,3,4,7,8-HxCDD	51
13C12-1,2,3,6,7,8-HxCDD	68
13C12-1,2,3,4,6,7,8-HpCDD	42
13C12-OCDD	30
13C12-2,3,7,8-TCDF	61
13C12-1,2,3,7,8-PeCDF	50
13C12-2,3,4,7,8-PeCDF	51
13C12-1,2,3,4,7,8-HxCDF	59
13C12-1,2,3,6,7,8-HxCDF	80
13C12-2,3,4,6,7,8-HxCDF	69
13C12-1,2,3,7,8,9-HxCDF	60
13C12-1,2,3,4,6,7,8-HpCDF	56
13C12-1,2,3,4,7,8,9-HpCDF	41
Cleanup Standard	
37Cl4-2,3,7,8-TCDD (Cleanup)	NS
Homologue Group Totals	**pg/L**
Total-TCDD	<0.72
Total-PeCDD	<0.77
Total-HxCDD	<1.6
Total-HpCDD	<2.2
Total-TCDF	<0.61
Total-PeCDF	<0.65
Total-HxCDF	1.71
Total-HpCDF	<2.0
Toxic Equivalency - (WHO 2005)	
Lower Bound PCDD/F TEQ (WHO 2005)	0.0168
Mid Point PCDD/F TEQ (WHO 2005)	1.43
Upper Bound PCDD/F TEQ (WHO 2005)	2.74

ALS Life Sciences

Quality Control Summary Report

Sample Name	Method Blank	Laboratory Control Sample
ALS Sample ID	WG3603564-1	WG3603564-2
Sample Size	1.00	1
Sample size units	L	N/A
Percent Moisture	n/a	n/a
Sample Matrix	QC	QC
Sampling Date	n/a	n/a
Extraction Date	7-Sep-21	7-Sep-21
Target Analytes	**pg/L**	**% Rec**
2,3,7,8-TCDD	<0.26	80
1,2,3,7,8-PeCDD	<0.31	110
1,2,3,4,7,8-HxCDD	<0.35	106
1,2,3,6,7,8-HxCDD	<0.33	94
1,2,3,7,8,9-HxCDD	<0.34	116
1,2,3,4,6,7,8-HpCDD	<0.80	101
OCDD	<1.9	95
2,3,7,8-TCDF	<0.31	101
1,2,3,7,8-PeCDF	<0.57	108
2,3,4,7,8-PeCDF	<0.22	97
1,2,3,4,7,8-HxCDF	0.271	106
1,2,3,6,7,8-HxCDF	<0.16	98
2,3,4,6,7,8-HxCDF	<0.17	96
1,2,3,7,8,9-HxCDF	<0.64	106
1,2,3,4,6,7,8-HpCDF	0.337	99
1,2,3,4,7,8,9-HpCDF	<0.44	100
OCDF	<0.81	104
Extraction Standards	**% Rec**	**% Rec**
13C12-2,3,7,8-TCDD	64	57
13C12-1,2,3,7,8-PeCDD	56	52
13C12-1,2,3,4,7,8-HxCDD	51	44
13C12-1,2,3,6,7,8-HxCDD	70	66
13C12-1,2,3,4,6,7,8-HpCDD	53	49
13C12-OCDD	46	45
13C12-2,3,7,8-TCDF	61	55
13C12-1,2,3,7,8-PeCDF	57	52
13C12-2,3,4,7,8-PeCDF	59	55
13C12-1,2,3,4,7,8-HxCDF	59	51
13C12-1,2,3,6,7,8-HxCDF	73	65
13C12-2,3,4,6,7,8-HxCDF	67	61
13C12-1,2,3,7,8,9-HxCDF	64	56
13C12-1,2,3,4,6,7,8-HpCDF	63	57
13C12-1,2,3,4,7,8,9-HpCDF	53	52
Cleanup Standard		
37Cl4-2,3,7,8-TCDD (Cleanup)	59	30
Homologue Group Totals	**pg/L**	
Total-TCDD	<0.26	
Total-PeCDD	<0.31	
Total-HxCDD	<0.35	
Total-HpCDD	<0.80	
Total-TCDF	<0.31	
Total-PeCDF	<0.27	
Total-HxCDF	0.271	
Total-HpCDF	<0.44	
Toxic Equivalency - (WHO 2005)		
Lower Bound PCDD/F TEQ (WHO 2005)	0.0305	
Mid Point PCDD/F TEQ (WHO 2005)	0.519	
Upper Bound PCDD/F TEQ (WHO 2005)	0.927	

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Continuing Calibration Summary Report

Sample Name	CVS	CCV	CCV	CCV	CCV
ALS Sample ID	H7-21-RS1-0199	H7-21-CCV-600	H7-21-CCV-601	H7-21-CCV-602	H7-21-CCV-603
Sample Size	1	1	1	1	1
Sample size units	n/a	n/a	n/a	n/a	n/a
Percent Moisture	n/a	n/a	n/a	n/a	n/a
Sample Matrix	QC	QC	QC	QC	QC
Sampling Date	n/a	n/a	n/a	n/a	n/a
Extraction Date	n/a	n/a	n/a	n/a	n/a
Target Analytes	**% Rec**	**% Rec**	**% Rec**	**% Rec**	**% Rec**
2,3,7,8-TCDD	95	92	92	88	88
1,2,3,7,8-PeCDD	109	100	101	103	100
1,2,3,4,7,8-HxCDD	100	108	107	89	108
1,2,3,6,7,8-HxCDD	108	98	99	111	99
1,2,3,7,8,9-HxCDD	110	115	115	119	122
1,2,3,4,6,7,8-HpCDD	104	102	104	103	99
OCDD	104	96	99	96	95
2,3,7,8-TCDF	104	120	117	107	108
1,2,3,7,8-PeCDF	103	102	103	103	105
2,3,4,7,8-PeCDF	98	103	100	101	102
1,2,3,4,7,8-HxCDF	101	106	104	100	100
1,2,3,6,7,8-HxCDF	101	105	104	102	105
2,3,4,6,7,8-HxCDF	99	103	104	97	101
1,2,3,7,8,9-HxCDF	111	99	101	99	99
1,2,3,4,6,7,8-HpCDF	100	104	101	101	102
1,2,3,4,7,8,9-HpCDF	102	100	101	96	97
OCDF	114	101	102	98	100
Extraction Standards	**% Rec**	**% Rec**	**% Rec**	**% Rec**	**% Rec**
13C12-2,3,7,8-TCDD	97	94	96	96	95
13C12-1,2,3,7,8-PeCDD	94	88	93	95	95
13C12-1,2,3,4,7,8-HxCDD	95	77	79	75	59
13C12-1,2,3,6,7,8-HxCDD	101	103	99	97	101
13C12-1,2,3,4,6,7,8-HpCDD	105	101	89	87	87
13C12-OCDD	95	138	93	95	99
13C12-2,3,7,8-TCDF	99	89	88	89	86
13C12-1,2,3,7,8-PeCDF	97	88	93	92	92
13C12-2,3,4,7,8-PeCDF	94	95	97	100	97
13C12-1,2,3,4,7,8-HxCDF	105	81	85	79	68
13C12-1,2,3,6,7,8-HxCDF	103	104	97	95	95
13C12-2,3,4,6,7,8-HxCDF	103	101	94	94	86
13C12-1,2,3,7,8,9-HxCDF	100	95	89	87	88
13C12-1,2,3,4,6,7,8-HpCDF	105	108	100	96	96
13C12-1,2,3,4,7,8,9-HpCDF	106	108	92	92	90
Cleanup Standard					
37Cl4-2,3,7,8-TCDD (Cleanup)	114	89	94	95	90

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Sample Analysis Report

Sample Name	**FINAL EFFLUENT**	Sampling Date	4-Aug-21		
ALS Sample ID	L2625428-1	Extraction Date	7-Sep-21		Approved:
Analysis Method	EPA 1613B	Sample Size	1.10	L	*K.BERG*
Analysis Type	Sample	Percent Moisture	n/a		--e-signature--
Sample Matrix	Water	Split Ratio	2		14-Oct-2021

Run Information	**Run 1**
Filename	7-211009B04
Run Date	09-Oct-21 13:37
Final Volume	10 uL
Dilution Factor	1
Analysis Units	pg/L
Instrument - Column	HRMS 7 DB5MSUS1331822H

Target Analytes	**TEF (WHO 2005)**	**Ret. Time**	**Conc. pg/L**	**EDL pg/L**	**Flags**	**EMPC pg/L**	**LQL**
2,3,7,8-TCDD	1	NotFnd	<0.72	0.72	U		9.1
1,2,3,7,8-PeCDD	1	NotFnd	<0.77	0.77	U		45
1,2,3,4,7,8-HxCDD	0.1	NotFnd	<1.6	1.6	U		45
1,2,3,6,7,8-HxCDD	0.1	NotFnd	<1.4	1.4	U		45
1,2,3,7,8,9-HxCDD	0.1	NotFnd	<1.5	1.5	U		45
1,2,3,4,6,7,8-HpCDD	0.01	36.02	<3.0	2.2	M,J,R	3.0	45
OCDD	0.0003	37.55	38.6	5.7	J		91
2,3,7,8-TCDF	0.1	27.71	<0.65	0.61	M,J,R	0.65	9.1
1,2,3,7,8-PeCDF	0.03	31.46	<0.65	0.65	M,U	0.57	45
2,3,4,7,8-PeCDF	0.3	32.14	<0.55	0.55	M,U	0.54	45
1,2,3,4,7,8-HxCDF	0.1	33.87	<1.0	1.0	M,U	0.45	45
1,2,3,6,7,8-HxCDF	0.1	NotFnd	<0.95	0.95	U		45
2,3,4,6,7,8-HxCDF	0.1	34.28	<1.1	1.1	U	0.96	45
1,2,3,7,8,9-HxCDF	0.1	34.69	<1.7	1.7	U		45
1,2,3,4,6,7,8-HpCDF	0.01	35.46	<1.1	1.1	M,U	0.62	45
1,2,3,4,7,8,9-HpCDF	0.01	NotFnd	<2.0	2.0	U		45
OCDF	0.0003	37.64	17.5	6.1	J		91

Extraction Standards	**pg**		**% Rec**	**Limits**
13C12-2,3,7,8-TCDD	4000	28.57	62	25-164
13C12-1,2,3,7,8-PeCDD	4000	32.35	47	25-181
13C12-1,2,3,4,7,8-HxCDD	4000	34.35	51	32-141
13C12-1,2,3,6,7,8-HxCDD	4000	34.39	68	28-130
13C12-1,2,3,4,6,7,8-HpCDD	4000	36.02	42	23-140
13C12-OCDD	8000	37.53	30	17-157
13C12-2,3,7,8-TCDF	4000	27.67	61	24-169
13C12-1,2,3,7,8-PeCDF	4000	31.46	50	24-185
13C12-2,3,4,7,8-PeCDF	4000	32.15	51	21-178
13C12-1,2,3,4,7,8-HxCDF	4000	33.87	59	26-152
13C12-1,2,3,6,7,8-HxCDF	4000	33.93	80	26-123
13C12-2,3,4,6,7,8-HxCDF	4000	34.26	69	28-136
13C12-1,2,3,7,8,9-HxCDF	4000	34.67	60	29-147
13C12-1,2,3,4,6,7,8-HpCDF	4000	35.45	56	28-143
13C12-1,2,3,4,7,8,9-HpCDF	4000	36.27	41	26-138

Cleanup Standard	**pg**	
37Cl4-2,3,7,8-TCDD (Cleanup)	0	NS

Homologue Group Totals	**# peaks**	**Conc. pg/L**	**EDL pg/L**		**LQL**
Total-TCDD	0	<0.72	0.72	U	9.1
Total-PeCDD	0	<0.77	0.77	U	45
Total-HxCDD	0	<1.6	1.6	U	45
Total-HpCDD	0	<2.2	2.2	U	45
Total-TCDF	0	<0.61	0.61	U	9.1
Total-PeCDF	0	<0.65	0.65	U	45
Total-HxCDF	1	1.71	1.7		45
Total-HpCDF	0	<2.0	2.0	U	45

Toxic Equivalency - (WHO 2005)	**pg/L**
Lower Bound PCDD/F TEQ (WHO 2005)	0.0168
Mid Point PCDD/F TEQ (WHO 2005)	1.43
Upper Bound PCDD/F TEQ (WHO 2005)	2.74

EDL	Indicates the Estimated Detection Limit, based on the measured background noise for this target in this sample.
TEF	Indicates the Toxic Equivalency Factor
TEQ	Indicates the Toxic Equivalency
M	Indicates that a peak has been manually integrated.
U	Indicates that this compound was not detected above the EDL.
J	Indicates that a target analyte was detected below the calibrated range.
R	Indicates that the ion abundance ratio for this compound did not meet the acceptance criterion.
LQL	Lower Quantification Limit, based on the lowest calibration level corrected for sample size, splits and dilutions.
EMPC	Estimated Maximum Possible Concentration – elevated detection limit due to interference or positive id criterion failure
NS	Indicates that this standard has not been added.

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SVOC DATA PACKAGE

SECTION 3: METHOD SUMMARY

PCDD/F METHOD SUMMARY
Methods 23/0023A/1613B/8290/TO-9A

Introduction:

This summary is to provide ALSE Burlington PCDD/F method details in order to provide persons reviewing or validating this data package sufficient information to re-construct the sample calculation, data verification and review. It incorporates the analysis of PCDD/F via the following reference methods:

US EPA Office of Water, Method 1613B
US EPA Office of Solid Waste, SW846 Methods 8290A and 0023/8290A
US EPA Office of Research & Development Method TO-9A.
US EPA Office of Air Quality Planning & Standards Method 23.

Any deviations to what is listed herein would be listed in the project narrative.

To avoid the confusion and conflicting nomenclature within the methods, we have defined the labeled standards in terms relating to the time of addition to the sample or extract. Therefore;

The Field or Sampling Standards are added prior to field sampling
The Extraction Standards are added prior to extraction
The Clean-up Standards are added prior to extract clean-up
The Injection Standards are added prior to extract injection.

Calibration Standard Levels:

Six levels of standard are available for calibration as listed in Table 1. The low point (the CS0) is below method requirements and therefore is optional.

Table 1: Calibration Standards

		CS0	CS1	CS2	CS3	CS4	CS5
Natives	2,3,7,8-TCDD	0.1	0.5	2	10	40	200
	2,3,7,8-TCDF	0.1	0.5	2	10	40	200
	1,2,3,7,8-PeCDD	0.5	2.5	10	50	200	1000
	1,2,3,7,8-PeCDF	0.5	2.5	10	50	200	1000
	2,3,4,7,8-PeCDF	0.5	2.5	10	50	200	1000
	1,2,3,4,7,8-HxCDD	0.5	2.5	10	50	200	1000
	1,2,3,6,7,8-HxCDD	0.5	2.5	10	50	200	1000
	1,2,3,7,8,9-HxCDD	0.5	2.5	10	50	200	1000
	1,2,3,4,7,8-HxCDF	0.5	2.5	10	50	200	1000
	1,2,3,6,7,8-HxCDF	0.5	2.5	10	50	200	1000
	1,2,3,7,8,9-HxCDF	0.5	2.5	10	50	200	1000
	2,3,4,6,7,8-HxCDF	0.5	2.5	10	50	200	1000
	1,2,3,4,6,7,8-HpCDD	0.5	2.5	10	50	200	1000
	1,2,3,4,6,7,8-HpCDF	0.5	2.5	10	50	200	1000
	1,2,3,4,7,8,9-HpCDF	0.5	2.5	10	50	200	1000
	OCDD	1	5	20	100	400	2000
	OCDF	1	5	20	100	400	2000
Labeled	2,3,7,8-TCDD-$^{13}C_{12}$	100	100	100	100	100	100
	2,3,7,8-TCDF-$^{13}C_{12}$	100	100	100	100	100	100
	1,2,3,7,8-PeCDD-$^{13}C_{12}$	100	100	100	100	100	100
	1,2,3,7,8-PeCDF-$^{13}C_{12}$	100	100	100	100	100	100
	2,3,4,7,8-PeCDF-$^{13}C_{12}$	100	100	100	100	100	100
	1,2,3,4,7,8-HxCDD-$^{13}C_{12}$	100	100	100	100	100	100
	1,2,3,6,7,8-HxCDD-$^{13}C_{12}$	100	100	100	100	100	100
	1,2,3,4,7,8-HxCDF-$^{13}C_{12}$	100	100	100	100	100	100
	1,2,3,6,7,8-HxCDF-$^{13}C_{12}$	100	100	100	100	100	100
	1,2,3,7,8,9-HxCDF-$^{13}C_{12}$	100	100	100	100	100	100
	2,3,4,6,7,8-HxCDF-$^{13}C_{12}$	100	100	100	100	100	100
	1,2,3,4,6,7,8-HpCDD-$^{13}C_{12}$	100	100	100	100	100	100
	1,2,3,4,6,7,8-HpCDF-$^{13}C_{12}$	100	100	100	100	100	100
	1,2,3,4,7,8,9-HpCDF-$^{13}C_{12}$	100	100	100	100	100	100
	OCDD-$^{13}C_{12}$	200	200	200	200	200	200
	2,3,7,8-TCDD-$^{37}Cl_4$	0.1	0.5	2	10	40	200
Injection	1,2,3,4-TCDD-$^{13}C_{12}$	100	100	100	100	100	100
	1,2,3,7,8,9-HxCDD-$^{13}C_{12}$	100	100	100	100	100	100

Calibration Control Limits

The initial and continuing calibration control limits for all methods are presented in Table 2 below. For the initial calibration CS1 and for each calibration verification CS3, the signal to noise ratio for each quantification ion for labelled and non-labelled analytes must be greater than or equal to 10:1

Table 2: Calibration Control Limits

	1613B		M23 & TO-9A		8290A	
	Initial Cal.	Cal. Ver.	Initial Cal.	Cal. Ver.	Initial Cal.	Cal. Ver.
	%RSD	ng/mL	%RSD	% Diff	%RSD	% Diff
Natives						
2,3,7,8-TCDD	20	7.8-12.9	25	25	20	20*
2,3,7,8-TCDF	20	8.4-12.0	25	25	20	20*
1,2,3,7,8-PeCDD	20	39-65	25	25	20	20*
1,2,3,7,8-PeCDF	20	41-60	25	25	20	20*
2,3,4,7,8-PeCDF	20	41-61	25	25	20	20*
1,2,3,4,7,8-HxCDD	20	39-64	25	25	20	20*
1,2,3,6,7,8-HxCDD	20	39-64	25	25	20	20*
1,2,3,7,8,9-HxCDD	35	41-61	25	25	20	20*
1,2,3,4,7,8-HxCDF	20	45-56	25	25	20	20*
1,2,3,6,7,8-HxCDF	20	44-57	25	25	20	20*
1,2,3,7,8,9-HxCDF	20	45-56	25	25	20	20*
2,3,4,6,7,8-HxCDF	20	44-57	25	25	20	20*
1,2,3,4,6,7,8-HpCDD	20	43-58	25	25	20	20*
1,2,3,4,6,7,8-HpCDF	20	45-55	25	25	20	20*
1,2,3,4,7,8,9-HpCDF	20	43-58	25	25	20	20*
OCDD	20	79-126	25	25	20	20*
OCDF	35	63-159	30	30	20	20*
Labels						
2,3,7,8-TCDD-$^{13}C_{12}$	35	82-121	25	25	30	30**
2,3,7,8-TCDF-$^{13}C_{12}$	35	71-140	30	30	30	30**
1,2,3,7,8-PeCDD-$^{13}C_{12}$	35	62-160	30	30	30	30**
1,2,3,7,8-PeCDF-$^{13}C_{12}$	35	76-130	30	30	30	30**
2,3,4,7,8-PeCDF-$^{13}C_{12}$	35	77-130	25	25	30	30**
1,2,3,4,7,8-HxCDD-$^{13}C_{12}$	35	85-117	25	25	30	30**
1,2,3,6,7,8-HxCDD-$^{13}C_{12}$	35	85-118	25	25	30	30**
1,2,3,4,7,8-HxCDF-$^{13}C_{12}$	35	76-131	25	25	30	30**
1,2,3,6,7,8-HxCDF-$^{13}C_{12}$	35	70-143	30	30	30	30**
1,2,3,7,8,9-HxCDF-$^{13}C_{12}$	35	74-135	-	-	-	-
2,3,4,6,7,8-HxCDF-$^{13}C_{12}$	35	73-137	30	30	30	30**
1,2,3,4,6,7,8-HpCDD-$^{13}C_{12}$	35	72-138	30	30	30	30**
1,2,3,4,6,7,8-HpCDF-$^{13}C_{12}$	35	78-129	30	30	30	30**
1,2,3,4,7,8,9-HpCDF-$^{13}C_{12}$	35	77-129	25	25	30	30**
OCDD-$^{13}C_{12}$	35	96-415	30	30	30	30**
2,3,7,8-TCDD-$^{37}Cl_4$	35	7.9-12.7	25	25	30	30**

* 25% is allowed for a post-run verification but when the value is above 20%, then the analyte quantification must be as per 8290A Section 8.3.2.4 and corrective action is required before more samples can be analyzed.
**35% is allowed for a post-run verification but when the value is above 30%, then the analyte quantification must be as per 8290A Section 8.3.2.4 and corrective action is required before more samples can be analyzed.

LCS Criteria:

The laboratory control sample (LCS) or the On-Going Precision and Accuracy (OPR) recovery criteria are listed in Table 3

Table 3: Acceptance Criteria for IPR and OPR[a]

	Test Conc.	IPR		OPR
		s[b]	X[c]	
	ng/L	ng/L	ng/L	ng/L
Natives				
2,3,7,8-TCDD	10	2.8	8.3-12.9	6.7-15.8
2,3,7,8-TCDF	10	2	8.7-13.7	7.5-15.8
1,2,3,7,8-PeCDD	50	7.5	38-66	35-71
1,2,3,7,8-PeCDF	50	7.5	43-62	40-67
2,3,4,7,8-PeCDF	50	8.6	36-75	34-80
1,2,3,4,7,8-HxCDD	50	9.4	39-76	35-82
1,2,3,6,7,8-HxCDD	50	7.7	42-62	38-67
1,2,3,7,8,9-HxCDD	50	11.1	37-71	32-81
1,2,3,4,7,8-HxCDF	50	8.7	41-59	36-67
1,2,3,6,7,8-HxCDF	50	6.7	46-60	42-65
1,2,3,7,8,9-HxCDF	50	6.4	42-61	39-65
2,3,4,6,7,8-HxCDF	50	7.4	37-74	35-78
1,2,3,4,6,7,8-HpCDD	50	7.7	38-65	35-70
1,2,3,4,6,7,8-HpCDF	50	6.3	45-56	41-61
1,2,3,4,7,8,9-HpCDF	50	8.1	43-63	39-69
OCDD	100	19	89-127	78-144
OCDF	100	27	74-146	63-170
Labels				
2,3,7,8-TCDD-$^{13}C_{12}$	100	37	28-134	20-175
2,3,7,8-TCDF-$^{13}C_{12}$	100	35	31-113	22-152
1,2,3,7,8-PeCDD-$^{13}C_{12}$	100	39	27-184	21-227
1,2,3,7,8-PeCDF-$^{13}C_{12}$	100	34	27-156	21-192
2,3,4,7,8-PeCDF-$^{13}C_{12}$	100	38	16-297	13-328
1,2,3,4,7,8-HxCDD-$^{13}C_{12}$	100	41	29-147	21-193
1,2,3,6,7,8-HxCDD-$^{13}C_{12}$	100	38	34-122	25-163
1,2,3,4,7,8-HxCDF-$^{13}C_{12}$	100	43	27-152	19-202
1,2,3,6,7,8-HxCDF-$^{13}C_{12}$	100	35	30-122	21-159
1,2,3,7,8,9-HxCDF-$^{13}C_{12}$	100	40	24-157	17-205
2,3,4,6,7,8-HxCDF-$^{13}C_{12}$	100	37	29-136	22-176
1,2,3,4,6,7,8-HpCDD-$^{13}C_{12}$	100	35	34-129	26-166
1,2,3,4,6,7,8-HpCDF-$^{13}C_{12}$	100	41	32-110	21-158
1,2,3,4,7,8,9-HpCDF-$^{13}C_{12}$	100	40	28-141	20-186
OCDD-$^{13}C_{12}$	200	95	41-276	26-397
2,3,7,8-TCDD-$^{37}Cl_4$	10	3.6	3.9-15.4	3.1-19.1

[a] Assuming a final volume of 20uL

[b] s = standard deviation

[c] X = Average Concentration

Extraction/Clean-up & Sampling Standard Recovery Limts:

Table 4: Extraction, Clean-up, Injection & Sampling Standard Recovery Limits

	1613B or 8290A (non Stack)		M23 or 0023A/8290A or TO-9A	
	(% Rec.)	Ref.	(% Rec.)	Ref.
Extraction Standard				
2,3,7,8-TCDD-$^{13}C_{12}$	25-164	a	40-130	b
2,3,7,8-TCDF-$^{13}C_{12}$	24-169	a	40-130	b
1,2,3,7,8-PeCDD-$^{13}C_{12}$	25-181	a	40-130	b
1,2,3,7,8-PeCDF-$^{13}C_{12}$	24-185	a	40-130	b
2,3,4,7,8-PeCDF-$^{13}C_{12}$	21-178	a	-	
1,2,3,4,7,8-HxCDD-$^{13}C_{12}$	32-141	a	-	
1,2,3,6,7,8-HxCDD-$^{13}C_{12}$	28-130	a	40-130	b
1,2,3,4,7,8-HxCDF-$^{13}C_{12}$	26-152	a	-	
1,2,3,6,7,8-HxCDF-$^{13}C_{12}$	26-123	a	40-130	b
1,2,3,7,8,9-HxCDF-$^{13}C_{12}$	29-147	a	-	
2,3,4,6,7,8-HxCDF-$^{13}C_{12}$	28-136	a	40-130	c,d
1,2,3,4,6,7,8-HpCDD-$^{13}C_{12}$	23-140	a	25-130	b
1,2,3,4,6,7,8-HpCDF-$^{13}C_{12}$	28-143	a	25-130	b
1,2,3,4,7,8,9-HpCDF-$^{13}C_{12}$	26-138	a	-	
OCDD-$^{13}C_{12}$	17-157	a	25-130	b
Clean-up Standard				
2,3,7,8-TCDD-$^{37}Cl_4$	35-197	a	-	
1,2,3,7,8,9-HxCDF-$^{13}C_{12}$	-		40-130	b
Injection Standard				
1,2,3,4-TCDD-$^{13}C_{12}$	30-300	d	30-300	d
1,2,3,7,8,9-HxCDD-$^{13}C_{12}$	30-300	d	30-300	d
Sampling Standard				
2,3,7,8-TCDD-$^{37}Cl_4$	-		70-130	b
2,3,4,7,8-PeCDF-$^{13}C_{12}$	-		70-130	b
1,2,3,4,7,8-HxCDD-$^{13}C_{12}$	-		70-130	b
1,2,3,4,7,8-HxCDF-$^{13}C_{12}$	-		70-130	b
1,2,3,4,7,8,9-HpCDF-$^{13}C_{12}$	-		70-130	b

References & Notes

[a] from OW method 1613B

[b] from OAQPS method 23

[c] this extraction standard is not required in methods 23 and 0023A/8290A

[d] ALS In-house criteria

Reporting Limits:

Unless indicated in the otherwise, the PCDD/F data is reported down to 2.5:1 signal to noise for each isomer grouping for each extract injection. This is consistent to SW846 8290 defined protocols (i.e. EDL or Estimated Detection Limit) and is commonly applied throughout the industry to all the HRMS PCDD/F methods applicable to this method summary.

Method Blank:

The method blank levels must be below the response to the low calibration standard, CS0 or CS1, whichever low calibration point is being applied to the project.

MS/MSD:

The % relative difference between the MS and MSD spike recoveries should be less than or equal to 20%.

Instrument/Run Performance Criteria:

1. Elution windows must be defined by a 'Window Performance Mix' at the beginning of each 12-hour run sequence
2. GC performance criteria of 25% maximum valley between 2,3,7,8-TCDD and it's neared eluting isomers (DB5) or 2,3,7,8-TCDF and it's nearest eluting isomers (DB225).
3. At the beginning of and just following the end of each 12 hour run sequence, the instrument must be checked to demonstrate a resolution of 10,000 for each quantification window.
4. For method 1613B, the relative retention times (RRT) of the compounds in the daily CS3 calibration verification must fall into the ranges presented in Table 4.
5. For all calibrations, QC samples and field samples, the absolute retention time (RT) for 1,2,3,4-TCDD-13C12 must be >25.0 min on a DB5 column and >15.0 min on a DB225 column.
6. The RT in the daily CS3 verification standards must be within 15 seconds of the CS3 in the initial calibration run.
7. The maximum time between scans within a descriptor is 1 second.
8. Lock mass deviations to the average response must be less than or equal 20%.

Laboratory Duplicates:

The % relative difference between duplicates should be less than or equal to 25% but only where the response is greater than the low calibration standard.

Analyte Identification Criteria:

1. Ion ratio must be within 15% of theoretical or within 10% of the most recent CS3.
2. The retention time (RT) of the peak maxima for each pair of quantification ions must be no more than 2 seconds (i.e. 2 scans) difference.
3. The retention time (RT) of the peak maxima of all 2,3,7,8- substituted native analytes must be within -1 to +3 seconds of the RT of corresponding $^{13}C_{12}$-labelled isomer of that injection run.
4. For those native analytes without a corresponding labelled isomer, the relative retention time (RRT) must be within 0.005 of the relative retention time observed in the daily CS3 run.
5. When there is a significant PCDPE interference observed, then a peak in the PCDF channel is not confirmed to be PCDF. [Significant PCDPE interference is identified when there is a PCDPE parent ion peak 10% or more of the response of a peak at the same RT (i.e. within 2 seconds) in the corresponding PCDF channel.]
6. For any peak to be identified as a positive PCDD/F response, that peak must be within the retention time windows defined by the daily analysis of Window Performance Mixture.

Table 4: Quantitation References and Method 1613B RT References and RRT

Analyte	Stack/Ambient Quantitation Reference	Method 1613B RT Reference Solids/ Waters Quantitation Reference	Method 1613B RRT
Compounds using 1,2,3,4-TCDD-$^{13}C_{12}$ as injection standard			
2,3,7,8-TCDF	2,3,7,8-TCDF-$^{13}C_{12}$	2,3,7,8-TCDF-$^{13}C_{12}$	0.999-1.003
2,3,7,8-TCDD	2,3,7,8-TCDD-$^{13}C_{12}$	2,3,7,8-TCDD-$^{13}C_{12}$	0.999-1.002
1,2,3,7,8-PeCDF	1,2,3,7,8-PeCDF-$^{13}C_{12}$	1,2,3,7,8-PeCDF-$^{13}C_{12}$	0.999-1.002
2,3,4,7,8-PeCDF	1,2,3,7,8-PeCDF-$^{13}C_{12}$	2,3,4,7,8-PeCDF-$^{13}C_{12}$	0.999-1.002
1,2,3,7,8-PeCDD	1,2,3,7,8-PeCDD-$^{13}C_{12}$	1,2,3,7,8-PeCDD-$^{13}C_{12}$	0.999-1.002
2,3,7,8-TCDF-$^{13}C_{12}$	1,2,3,4-TCDD-$^{13}C_{12}$	1,2,3,4-TCDD-$^{13}C_{12}$	0.923-1.103
2,3,7,8-TCDD-$^{13}C_{12}$	1,2,3,4-TCDD-$^{13}C_{12}$	1,2,3,4-TCDD-$^{13}C_{12}$	0.976-1.043
2,3,7,8-TCDD-$^{37}Cl_4$	2,3,7,8-TCDD-$^{13}C_{12}$	1,2,3,4-TCDD-$^{13}C_{12}$	0.989-1.052
1,2,3,7,8-PeCDF-$^{13}C_{12}$	1,2,3,4-TCDD-$^{13}C_{12}$	1,2,3,4-TCDD-$^{13}C_{12}$	1.000-1.425
2,3,4,7,8-PeCDF-$^{13}C_{12}$	1,2,3,7,8-PeCDF-$^{13}C_{12}$	1,2,3,4-TCDD-$^{13}C_{12}$	1.011-1.526
1,2,3,7,8-PeCDD-$^{13}C_{12}$	1,2,3,4-TCDD-$^{13}C_{12}$	1,2,3,4-TCDD-$^{13}C_{12}$	1.000-1.567
Compounds using 1,2,3,7,8,9-HxCDD-$^{13}C_{12}$ as injection standard			
1,2,3,4,7,8-HxCDF	1,2,3,6,7,8-HxCDF-$^{13}C_{12}$	1,2,3,4,7,8-HxCDF-$^{13}C_{12}$	0.999-1.001
1,2,3,6,7,8-HxCDF	1,2,3,6,7,8-HxCDF-$^{13}C_{12}$	1,2,3,6,7,8-HxCDF-$^{13}C_{12}$	0.997-1.005
1,2,3,7,8,9-HxCDF	1,2,3,6,7,8-HxCDF-$^{13}C_{12}$	1,2,3,7,8,9-HxCDF-$^{13}C_{12}$	0.999-1.001
2,3,4,6,7,8-HxCDF	2,3,4,6,7,8-HxCDF-$^{13}C_{12}$	2,3,4,6,7,8-HxCDF-$^{13}C_{12}$	0.999-1.001
1,2,3,4,7,8-HxCDD	1,2,3,6,7,8-HxCDD-$^{13}C_{12}$	1,2,3,4,7,8-HxCDD-$^{13}C_{12}$	0.999-1.001
1,2,3,6,7,8-HxCDD	1,2,3,6,7,8-HxCDD-$^{13}C_{12}$	1,2,3,6,7,8-HxCDD-$^{13}C_{12}$	0.998-1.004
1,2,3,7,8,9-HxCDD[a]	1,2,3,6,7,8-HxCDD-$^{13}C_{12}$	[a]	1.000-1.019
1,2,3,4,6,7,8-HpCDF	1,2,3,4,6,7,8-HpCDF-$^{13}C_{12}$	1,2,3,4,6,7,8-HpCDF-$^{13}C_{12}$	0.999-1.001
1,2,3,4,7,8,9-HpCDF	1,2,3,4,6,7,8-HpCDF-$^{13}C_{12}$	1,2,3,4,7,8,9-HpCDF-$^{13}C_{12}$	0.999-1.001
1,2,3,4,6,7,8-HpCDD	1,2,3,4,6,7,8-HpCDD-$^{13}C_{12}$	1,2,3,4,6,7,8-HpCDD-$^{13}C_{12}$	0.999-1.001
OCDF	OCDD-$^{13}C_{12}$	OCDD-$^{13}C_{12}$	0.999-1.008
OCDD	OCDD-$^{13}C_{12}$	OCDD-$^{13}C_{12}$	0.999-1.001
1,2,3,4,7,8-HxCDF-$^{13}C_{12}$	1,2,3,6,7,8-HxCDF-$^{13}C_{12}$	1,2,3,7,8,9-HxCDD-$^{13}C_{12}$	0.944-0.970
1,2,3,6,7,8-HxCDF-$^{13}C_{12}$	1,2,3,7,8,9-HxCDD-$^{13}C_{12}$	1,2,3,7,8,9-HxCDD-$^{13}C_{12}$	0.949-0.975
1,2,3,7,8,9-HxCDF-$^{13}C_{12}$	1,2,3,7,8,9-HxCDD-$^{13}C_{12}$	1,2,3,7,8,9-HxCDD-$^{13}C_{12}$	0.977-1.047
2,3,4,6,7,8-HxCDF-$^{13}C_{12}$	1,2,3,7,8,9-HxCDD-$^{13}C_{12}$	1,2,3,7,8,9-HxCDD-$^{13}C_{12}$	0.959-1.021
1,2,3,4,7,8-HxCDD-$^{13}C_{12}$	1,2,3,6,7,8-HxCDD-$^{13}C_{12}$	1,2,3,7,8,9-HxCDD-$^{13}C_{12}$	0.977-1.000
1,2,3,6,7,8-HxCDD-$^{13}C_{12}$	1,2,3,7,8,9-HxCDD-$^{13}C_{12}$	1,2,3,7,8,9-HxCDD-$^{13}C_{12}$	0.981-1.003
1,2,3,4,6,7,8-HpCDF-$^{13}C_{12}$	1,2,3,7,8,9-HxCDD-$^{13}C_{12}$	1,2,3,7,8,9-HxCDD-$^{13}C_{12}$	1.043-1.085
1,2,3,4,7,8,9-HpCDF-$^{13}C_{12}$	1,2,3,4,6,7,8-HpCDF-$^{13}C_{12}$	1,2,3,7,8,9-HxCDD-$^{13}C_{12}$	1.057-1.151
1,2,3,4,6,7,8-HpCDD-$^{13}C_{12}$	1,2,3,7,8,9-HxCDD-$^{13}C_{12}$	1,2,3,7,8,9-HxCDD-$^{13}C_{12}$	1.086-1.110
OCDD-$^{13}C_{12}$	1,2,3,7,8,9-HxCDD-$^{13}C_{12}$	1,2,3,7,8,9-HxCDD-$^{13}C_{12}$	1.032-1.311

[a] For solids/waters via 1612B, 1,2,3,7,8,9-HXCDD is quantified against the average responses of 1,2,3,4,7,8-HxCDD-$^{13}C_{12}$ and 1,2,3,6,7,8-HxCDD-$^{13}C_{12}$ while 1,2,3,6,7,8-HxCDD-$^{13}C_{12}$ is the RT reference.

Table 5: HRMS Instrumental Descriptor Parameters

Descriptor	Exact M/Z	M/Z Type	Elemental Composition	Substance	Type	Theoretical Ion Ratio	Ion Ratio QC Limits Upper	Lower
1	303.9016	M	$^{12}C_{12}\ ^{1}H_4\ ^{35}Cl_4\ ^{16}O$	TCDF	Native	0.77	0.65	0.89
	305.8987	M+2	$^{12}C_{12}\ ^{1}H_4\ ^{35}Cl_3\ ^{37}Cl\ ^{16}O$	TCDF	Native			
	315.9419	M	$^{13}C_{12}\ ^{1}H_4\ ^{35}Cl_4\ ^{16}O$	TCDF	^{13}C	0.77	0.65	0.89
	317.9389	M+2	$^{13}C_{12}\ ^{1}H_4\ ^{35}Cl_3\ ^{37}Cl\ ^{16}O$	TCDF	^{13}C			
	316.9824	Lock	$^{12}C_9\ ^{19}F_{11}$	PFK	Lock			
	319.8965	M	$^{12}C_{12}\ ^{1}H_4\ ^{35}Cl_4\ ^{16}O_2$	TCDD	Native	0.77	0.65	0.89
	321.8936	M+2	$^{12}C_{12}\ ^{1}H_4\ ^{35}Cl_3\ ^{37}Cl\ ^{16}O_2$	TCDD	Native			
	327.8847	M+8	$^{12}C_{12}\ ^{1}H_4\ ^{37}Cl_4\ ^{16}O_2$	TCDD	^{37}Cl			
	331.9368	M	$^{13}C_{12}\ ^{1}H_4\ ^{35}Cl_4\ ^{16}O_2$	TCDD	^{13}C	0.77	0.65	0.89
	333.9339	M+2	$^{13}C_{12}\ ^{1}H_4\ ^{35}Cl_3\ ^{37}Cl\ ^{16}O_2$	TCDD	^{13}C			
	339.8597	M+2	$^{12}C_{12}\ ^{1}H_3\ ^{35}Cl_4\ ^{37}Cl\ ^{16}O$	PeCDF	Native	1.55	1.32	1.78
	341.8568	M+4	$^{12}C_{12}\ ^{1}H_3\ ^{35}Cl_3\ ^{37}Cl_2\ ^{16}O$	PeCDF	Native			
	351.9	M+2	$^{13}C_{12}\ ^{1}H_3\ ^{35}Cl_4\ ^{37}Cl\ ^{16}O$	PeCDF	^{13}C	1.55	1.32	1.78
	353.897	M+4	$^{13}C_{12}\ ^{1}H_3\ ^{35}Cl_3\ ^{37}Cl_2\ ^{16}O$	PeCDF	^{13}C			
	375.8364	M+2	$^{12}C_{12}\ ^{1}H_4\ ^{35}Cl_5\ ^{37}Cl\ ^{16}O$	HxCDPE	Cl-DPE			
	409.7974	M+2	$^{12}C_{12}\ ^{1}H_3\ ^{35}Cl_6\ ^{37}Cl\ ^{16}O$	HpCDPE	Cl-DPE			
2	339.8597	M+2	$^{12}C_{12}\ ^{1}H_3\ ^{35}Cl_4\ ^{37}Cl\ ^{16}O$	PeCDF	Native	1.55	1.32	1.78
	341.8568	M+4	$^{12}C_{12}\ ^{1}H_3\ ^{35}Cl_3\ ^{37}Cl_2\ ^{16}O$	PeCDF	Native			
	351.9	M+2	$^{13}C_{12}\ ^{1}H_3\ ^{35}Cl_4\ ^{37}Cl\ ^{16}O$	PeCDF	^{13}C	1.55	1.32	1.78
	353.897	M+4	$^{13}C_{12}\ ^{1}H_3\ ^{35}Cl_3\ ^{37}Cl_2\ ^{16}O$	PeCDF	^{13}C			
	353.8576	M	$^{12}C_{12}\ ^{1}H_3\ ^{35}Cl_5\ ^{16}O_2$	PeCDD	Native	0.63	0.54	0.72
	355.8546	M+2	$^{12}C_{12}\ ^{1}H_3\ ^{35}Cl_4\ ^{37}Cl\ ^{16}O_2$	PeCDD	Native			
	366.9792	Lock	$^{12}C_{10}\ ^{19}F_{13}$	PFK	Lock			
	365.8978	M	$^{13}C_{12}\ ^{1}H_3\ ^{35}Cl_5\ ^{16}O_2$	PeCDD	^{13}C	0.63	0.54	0.72
	367.8949	M+2	$^{13}C_{12}\ ^{1}H_3\ ^{35}Cl_4\ ^{37}\ Cl\ ^{16}O_2$	PeCDD	^{13}C			
	409.7974	M+2	$^{12}C_{12}\ ^{1}H_3\ ^{35}Cl_6\ ^{37}Cl\ ^{16}O$	HpCDPE	Cl-DPE			
3	373.8207	M+2	$^{12}C_{12}\ ^{1}H_2\ ^{35}Cl_5\ ^{37}Cl\ ^{16}O$	HxCDF	Native	1.24	1.05	1.43
	375.8178	M+4	$^{12}C_{12}\ ^{1}H_2\ ^{35}Cl_4\ ^{37}Cl_2\ ^{16}O$	HxCDF	Native			
	380.976	Lock	$^{12}C_8\ ^{19}F_5$	PFK	Lock			
	383.8639	M	$^{13}C_{12}\ ^{1}H_2\ ^{35}Cl_6\ ^{16}O$	HxCDF	^{13}C	0.51	0.43	0.59
	385.861	M+2	$^{13}C_{12}\ ^{1}H_2\ ^{35}Cl_5\ ^{37}Cl\ ^{16}O$	HxCDF	^{13}C			
	389.8156	M+2	$^{12}C_{12}\ ^{1}H_2\ ^{35}Cl_5\ ^{37}Cl\ ^{16}O_2$	HxCDD	Native	1.24	1.05	1.43
	391.8127	M+4	$^{12}C_{12}\ ^{1}H_2\ ^{35}Cl_4\ ^{37}Cl_2\ ^{16}O_2$	HxCDD	Native			
	401.8559	M+2	$^{13}C_{12}\ ^{1}H_2\ ^{35}Cl_5\ ^{37}Cl\ ^{16}O_2$	HxCDD	^{13}C	1.24	1.05	1.43
	403.853	M+4	$^{13}C_{12}\ ^{1}H_2\ ^{35}Cl_4\ ^{37}Cl_2\ ^{16}O_2$	HxCDD	^{13}C			
	445.7555	M+4	$^{12}C_{12}\ ^{1}H_2\ ^{35}Cl_6\ ^{37}Cl_2\ ^{16}O$	OCDPE	Cl-DPE			
4	409.7789	M+4	$^{12}C_{12}\ ^{1}H\ ^{35}Cl_5\ ^{37}Cl_2\ ^{16}O$	HpCDF	Native	1.88	1.60	2.16
	411.7759	M+6	$^{12}C_{12}\ ^{1}H\ ^{35}Cl_4\ ^{37}Cl_3\ ^{16}O$	HpCDF	Native			
	417.8253	M	$^{13}C_{12}\ ^{1}H\ ^{35}Cl_7\ ^{16}O$	HpCDF	^{13}C	0.44	0.37	0.51
	419.822	M+2	$^{13}C_{12}\ ^{1}H\ ^{35}Cl_6\ ^{37}Cl\ ^{16}O$	HpCDF	^{13}C			
	423.7767	M+2	$^{12}C_{12}\ ^{1}H\ ^{35}Cl_6\ ^{37}Cl\ ^{16}O_2$	HpCDD	Native	1.04	0.88	1.20
	425.7737	M+4	$^{12}C_{12}\ ^{1}H\ ^{35}Cl_5\ ^{37}Cl_2\ ^{16}O_2$	HpCDD	Native			
	430.9728	Lock	$^{12}C_9\ ^{19}F_{17}$	PFK	Lock			
	435.8169	M+2	$^{13}C_{12}\ ^{1}H\ ^{35}Cl_6\ ^{37}Cl\ ^{16}O_2$	HpCDD	^{13}C	1.04	0.88	1.20
	437.814	M+4	$^{13}C_{12}\ ^{1}H\ ^{35}Cl_5\ ^{37}Cl_2\ ^{16}O_2$	HpCDD	^{13}C			
	479.7165	M+4	$^{12}C_{12}\ ^{1}H\ ^{35}Cl_7\ ^{37}Cl_2\ ^{16}O$	NCDPE	Cl-DPE			
5	441.7428	M+2	$^{12}C_{12}\ ^{35}Cl_7\ ^{37}Cl\ ^{16}O$	OCDF	Native	0.89	0.76	1.02
	443.7399	M+4	$^{12}C_{12}\ ^{35}Cl_6\ ^{37}Cl2\ ^{16}O$	OCDF	Native			
	454.9728	Lock	$^{12}C_{11}\ ^{19}F_{17}$	PFK	Lock			
	457.7377	M+2	$^{12}C_{12}\ ^{35}Cl_7\ ^{37}Cl\ ^{16}O_2$	OCDD	Native	0.89	0.76	1.02
	459.7348	M+4	$^{12}C_{12}\ ^{35}Cl_6\ ^{37}Cl_2\ ^{16}O_2$	OCDD	Native			
	469.778	M+2	$^{13}C_{12}\ ^{35}Cl_7\ ^{37}Cl\ ^{16}O_2$	OCDD	^{13}C	0.89	0.76	1.02
	471.775	M+4	$^{13}C_{12}\ ^{35}Cl_6\ ^{37}Cl_2\ ^{16}O_2$	OCDD	^{13}C			
	513.6775	M+4	$^{12}C_{12}\ ^{35}Cl_8\ ^{37}Cl_2\ ^{16}O$	DCDPE	Cl-DPE			

Data Calculations:

a) Analyte Concentrations:

The relative response factor of each target relative to the standard against which it is to be calculated is determined using the area responses of both quantification ions via equation 9.1.
In cases where a native target is calculated against an exact labelled analogue, the quantification will be considered to be by isotope dilution. In other cases, the quantification will be considered to be by internal standard.

$$RRF = \frac{(A1_t + A2_t)\ C_s}{(A1_s + A2_s)\ C_t} \qquad \text{Equ. 9.1}$$

Where,
$A1_t + A2_t$ = The areas of the two quantification ions for the target analyte
$A1_s + A2_s$ = The areas of the two quantification ions for the labelled compound against which the target analyte will be calculated.
C_t = The concentration in the calibration standard of the target analyte.
C_s = The concentration in the calibration standard of the labelled compound against which the target will be calculated.

For all analytes to be quantified and from the initial calibration series of standard injections, a table of RRFs is prepared. The relative standard deviation (%RSD, or the coefficient of variance) is checked to confirm that the appropriate method criteria has been met as listed in Table 3. The average of the five or six levels of standard for each analyte, RRF_{av} is applied for quantification of samples according to Equations 9.2 and 9.3 below.

$$\text{Amount in sample (pg)} = \frac{(A1_n + A2_n)\ Q_l}{(A1_l + A2_l)\ (RRF_{av})} \qquad \text{Equ. 9.2}$$

$$\text{Concentration in sample (pg/g or pg/l)} = \frac{(A1_n + A2_n)\ Q_l}{(A1_l + A2_l)\ (RRF_{av})\ (W_s)} \qquad \text{Equ. 9.3}$$

Where,

Q_l = The amount (pg) of labelled compound added to the sample

W_s = The weight (g) or volume (l) of sample

b) Extraction, Clean-up, and Sampling Standard Recovery Calculation:

The extraction, clean-up, and sampling standard recoveries are determined by Equation 9.4 below.

% Recovery = (Amount in sample)/(Amount added to sample) X 100 Equ. 9.4

c) Estimated Detection Limit

$$EDL = \frac{2.5 \times H_x \times Q_{es}}{H_{es} \times W \times RFF_{av}} \qquad \text{Equ. 9.5}$$

Where,

EDL = estimated detection limit for homologous 2,3,7,8-Substituted PCDD/Fs

H_x = sum of the height of the noise level for each quantification ions for the unlabelled PCDD/Fs.

H_{es} = Sum of the heights of responses of both quantification ions for the labelled extraction standard.

W = weight of volume of sample

RRF_{av} = average relative response factor

Q_{es} = Amount of extraction standard added

Chromatogram Annotation Codes

All manually integrated peaks are expanded and reprinted with the following annotations:

* Analyst Initials	AA
* Date	YYMMDD
* integration code	CC

The Syntax is:	Example:
AAYYMMDDCC	SK111220MB

Code	Mnemonic	Description
MB	Manual Baseline	The peak was manually integrated because the initial baseline was determined incorrectly by the software
MS	Manual Split	The peak was manually integrated because the peak was incorrectly or not split by the software
MJ/MC	Manual Join/Manual Combine	The peak was manually integrated because the peak was split by the software and the peak should be integrated as a single peak
MA	Manual Add	The peak was manually integrated because the signal:noise ratio was judged to be >2.5
MD	Manual Delete	The peak was excluded because the signal:noise ratio was judged to be <2.5
MX	Manual Exclude	The peak was excluded due to an interference
NH	Noise Height	The noise height for detection limit calculation was manually defined, over-riding the software chosen value
MT	Manual Time	The peak retention time was manually chosen

The following explanatory annotation codes may appear on the chromatograms of peaks that have been reviewed:

Code	Mnemonic	Description
+	Detected Peak	A peak was detected at this mass and retention time that was above 2.5:1 signal to noise
<	Below Detection Limit	The signal at this mass and retention time was below 2.5:1 signal to noise
EMPC	Estimated Maximum Possible Concentration	The signal at this mass and retention time is an interference such that the target compound could not be confirmed
X-RT	Not Detected due to Retention Time non-conformance	The signal at this retention time could not be used to positively identify the target compound because of retention time non-conformance (apex of quantification and confirmation ions do not maximize within the same two seconds, or the retention time of the peak does not fall within the expected range with respect to its labeled analogue)
X-LOC	Not Detected due to interference from a higher level of chlorination	The signal at this retention time is attributable to a fragment from a co-eluting compound at a higher level of chlorination, and cannot be used to positively identify the target. The result is expressed as an Estimated Maximum Possible Concentration (EMPC)
X-DPE	Not Detected due to diphenyl ether interference	The signal at this retention time is attributable to interference from a chlorinated diphenyl ether, and cannot be used to positively identify the target. The result is expressed as an Estimated Maximum Possible Concentration (EMPC)
X-IF	Not Detected due to interference	The signal at this retention time is attributable to a co-eluting interference, and cannot be used to positively identify the target. The result is expressed as an Estimated Maximum Possible Concentration (EMPC)

Deviations from the Primary Reference Methods:

The following changes and clarifications apply:

1) The calibration standards as listed in Table 2 are applied appropriately to all of the reference methods listed above. Such an application of one standard calibration series to all of these methods is within the scope of each and every one of the methods. The calibration standard set CS1 through CS5 is consistent with the standards concentration listing in method 1613B Table 4. The CS0 extends the calibration range below what is required by all of the methods. Table 4 defines the use of each of the labelled standards relative to each of the methods.

a. Method 1613B lists a larger suite of labelled extraction standards than does method 8290A. Additional labelled extraction standards have been added into the 8290A analysis to enhance the method and the data quality. These additions to the method constitute performance based enhancements and are within the scope of SW846 Method 8290A.

b. The levels presented in the calibration table of method 8290A are recommended values only. Changes to these concentrations, especially to expand the range, are within the scope of the method. Therefore application of the 1613B calibration standards to method 8290A is compliant with the scope of the method.

c. TO-9A is also a performance based method. It specifically states that different extraction standards and different concentrations of standards from those listed in TO-9A Table 3 is acceptable (see Section 6.8 of reference method).

d. Although OAQPS reference method 23 is not a performance based method, application of the 1613B standards has been defined as within the scope of the method. (see Appendix B)

2) Chlorinated Diphenyl Ether interferences: Both methods 1613B and 8290A indicate that any instrumental response showing the presence of a chlorinated diphenyl ether response and that coelutes with a PCDF represents an interference on that analyte (see Sections 18.3 and 7.8.4.4 respectively). This apparent zero tolerance does not take into account that the response in the diphenyl ether channel may be trivial relative to the corresponding PCDF. For this 'Standard Method', we have defined a chlorinated diphenyl ether interference as the presence of a **significant** response within the chlorinated diphenyl ether channel (rather than zero response) and defined significant as a response equal to or greater than 10% of the peak response in the PCDF channel.

3) When the primary analysis is performed using a DB5MS GC column, 2,3,7,8-TCDF can be resolved to a valley height of 60% from the closest-eluting isomers for this column, providing good quantification of this target without further confirmation. Confirmation of 2,3,7,8-TCDF concentrations above the level of the lowest calibration standard are performed on a second column on a contract basis when requested. Confirmation of additional 2,3,7,8-subtituted PCDD/F isomers is also available when requested.

4) Although not categorically stated in all associated PCDD/F methods, we maintain that each and every individual clean-up procedure is, by definition, performance-based and optional. There is not an expectation within the industry to follow exactly the descriptions of clean-ups in reference methods. Adaptations which meet or exceed the required performance criteria are therefore acceptable within the scope of each reference method. The reference method descriptions are intended as guidelines or templates available to help the laboratory to define effective in-house clean-up methods. The objective within the laboratory is to provide quality clean extracts to the instrument for analysis. Each individual clean-up is part of the laboratory's 'arsenal' in order to achieve this objective.

5) There are differences within the individual reference methods as to the precise spiking protocols for adding extraction standards and native spikes (for LCS, MS and MSD). To ensure consistency within the laboratory between PCDD/F and related methods, the PCDD/F preparative 'Specific Method' requires solids (including stack and ambient sorbants/filters) to be spiked in the soxhlet thimble from a nonane solution and waters are spiked before filtering from an acetone solution. This is consistent with the 8290A approach.

6) Sub-sampling of solids and pre-extraction processing is done in a manner that minimizes potential for cross-contamination. These processes are designed around SW846 protocols rather than 1613B protocols. Solids are sub-sampled directly from the bottle as submitted to the laboratory wherever practical. If the sample is submitted such that homogenization in the bottle is impractical (eg. the bottle is too full or lumps cannot be broken down), then transferring the sample to a tray or another bottle maybe in order.

7) The concentrations of labelled and native spiking solutions are not consistent with those listed in all of the reference methods. These concentrations are prepared at levels convenient and expedient for accurate laboratory processing.

8) With respect to extraction standard recovery limits on non-stack samples analyzed via method 8290A, the limits are based upon the inter-laboratory performance limits defined in method 1613B rather than the relatively arbitrary limits of 35-140% suggested in Section 8.4 of method 8290A.

9) With respect to ions monitored for P5CDD and H7CDF:

a. The 358 ion has a potential for interference from PCB (hexachlorobiphenyls) dependent upon levels of PCBs in the sample and the instrument tuning. Of particular concern is PCB-169 which on a DB5MS column elutes very close to 1,2,3,7,8-P5CDD and which is not removed for the PCDD/F extracts even by carbon clean-up. To eliminate the potential of such interferences from PCB on the 358 mass, we choose to monitor the alternate ion pair of 354 and 356.

b. Similarly, the 408 ion of native H7CDF is prone to problematic interferences arising from 13C-labeled heptachlorinated biphenyls. To eliminate the potential of such interferences from PCB on the 358 mass, we choose to monitor the alternate ion pair of 410 and 412.

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SVOC DATA PACKAGE

SECTION 4: CALIBRATION DATA

Including:

for Multi-Point Calibration(s)

- Multi-Point Calibration Tables
- Individual Quantitation Reports

for Continuing Calibration(s)

- Individual Quantitation Reports

ALS Life Sciences

Calibration Summary Report

Calibration Level	Filename	Run Date
CS-1	7-210611A03	11-Jun-2021 13:54
CS-2	7-210611A02	11-Jun-2021 13:13
CS-3	7-210611A01	11-Jun-2021 12:07
CS-4	7-210611A07	11-Jun-2021 16:48
CS-5	7-210611A06	11-Jun-2021 16:04

Approved: *K.BERG*
--e-signature--
14-Oct-2021

Relative Response Factors

Target Analytes	CS-1	CS-2	CS-3	CS-4	CS-5	Mean	% RSD
2,3,7,8-TCDD	1.164	1.178	1.124	1.166	1.173	1.161	2%
1,2,3,7,8-PeCDD	0.944	0.960	0.980	1.048	1.025	0.991	4%
1,2,3,4,7,8-HxCDD	1.007	1.102	0.992	1.119	0.971	1.038	7%
1,2,3,6,7,8-HxCDD	0.938	1.029	1.025	1.021	1.110	1.025	6%
1,2,3,7,8,9-HxCDD	0.969	1.033	0.999	1.039	0.985	1.005	3%
1,2,3,4,6,7,8-HpCDD	1.062	1.032	1.048	1.048	1.012	1.040	2%
OCDD	1.135	1.058	1.051	1.087	1.017	1.070	4%
2,3,7,8-TCDF	0.992	1.062	1.067	1.085	1.078	1.057	4%
1,2,3,7,8-PeCDF	1.031	1.096	1.093	1.148	1.143	1.102	4%
2,3,4,7,8-PeCDF	1.175	1.183	1.244	1.257	1.233	1.218	3%
1,2,3,4,7,8-HxCDF	1.219	1.305	1.335	1.389	1.395	1.329	5%
1,2,3,6,7,8-HxCDF	1.325	1.279	1.259	1.339	1.311	1.303	3%
2,3,4,6,7,8-HxCDF	1.357	1.412	1.407	1.471	1.441	1.418	3%
1,2,3,7,8,9-HxCDF	1.319	1.261	1.277	1.345	1.314	1.303	3%
1,2,3,4,6,7,8-HpCDF	1.086	1.079	1.052	1.098	1.058	1.075	2%
1,2,3,4,7,8,9-HpCDF	1.120	1.123	1.061	1.159	1.068	1.106	4%
OCDF	1.387	1.481	1.441	1.685	1.535	1.506	8%
Extraction Standards							
13C12-2,3,7,8-TCDD	1.168	1.125	1.173	1.179	1.237	1.176	3%
13C12-1,2,3,7,8-PeCDD	0.847	0.771	0.837	0.838	0.930	0.845	7%
13C12-1,2,3,4,7,8-HxCDD	0.910	0.913	0.975	0.847	0.989	0.927	6%
13C12-1,2,3,6,7,8-HxCDD	0.964	0.936	0.949	1.001	1.004	0.971	3%
13C12-1,2,3,4,6,7,8-HpCDD	0.808	0.741	0.662	0.667	0.716	0.719	8%
13C12-OCDD	0.679	0.453	0.408	0.392	0.514	0.489	24%
13C12-2,3,7,8-TCDF	1.718	1.660	1.795	1.770	1.840	1.757	4%
13C12-1,2,3,7,8-PeCDF	1.339	1.263	1.463	1.356	1.497	1.384	7%
13C12-2,3,4,7,8-PeCDF	1.292	1.189	1.301	1.337	1.453	1.314	7%
13C12-1,2,3,4,7,8-HxCDF	1.272	1.282	1.395	1.269	1.316	1.307	4%
13C12-1,2,3,6,7,8-HxCDF	1.360	1.420	1.459	1.467	1.485	1.438	3%
13C12-2,3,4,6,7,8-HxCDF	1.173	1.174	1.319	1.188	1.227	1.216	5%
13C12-1,2,3,7,8,9-HxCDF	1.082	1.100	1.106	1.082	1.114	1.097	1%
13C12-1,2,3,4,6,7,8-HpCDF	1.085	0.995	0.982	0.956	0.988	1.001	5%
13C12-1,2,3,4,7,8,9-HpCDF	0.868	0.757	0.726	0.683	0.751	0.757	9%
Cleanup Standard							
37Cl4-2,3,7,8-TCDD (Cleanup)	1.105	1.210	1.159	1.211	1.311	1.199	6%

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Calibration Report

ALS Sample ID **H7-21-CS1-0199**
Analysis Method EPA 1613B
Analysis Type Calibration

Filename	Inst #	Column	Run Date	Approved:	*K.BERG*
7-210611A03	HRMS-7	DB5MSUS1221911H	11-Jun-2021 13:54		--e-signature-- 14-Oct-2021

Target Analytes	Ret. Time	Ion Ratio	Concentration ng/mL	Response	RRF
2,3,7,8-TCDD	28.5	0.86	0.50	6.02E+03	1.164
1,2,3,7,8-PeCDD	32.32	1.57	2.50	1.77E+04	0.944
1,2,3,4,7,8-HxCDD	34.31	1.38	2.50	1.80E+04	1.007
1,2,3,6,7,8-HxCDD	34.37	1.23	2.50	1.77E+04	0.938
1,2,3,7,8,9-HxCDD	34.49	1.40	2.50	1.78E+04	0.969
1,2,3,4,6,7,8-HpCDD	35.98	0.99	2.50	1.68E+04	1.062
OCDD	37.49	0.89	5.00	3.02E+04	1.135
2,3,7,8-TCDF	27.6	0.83	0.50	7.54E+03	0.992
1,2,3,7,8-PeCDF	31.41	1.48	2.50	3.06E+04	1.031
2,3,4,7,8-PeCDF	32.11	1.54	2.50	3.36E+04	1.175
1,2,3,4,7,8-HxCDF	33.84	1.29	2.50	3.04E+04	1.219
1,2,3,6,7,8-HxCDF	33.9	1.28	2.50	3.53E+04	1.325
2,3,4,6,7,8-HxCDF	34.23	1.34	2.50	3.12E+04	1.357
1,2,3,7,8,9-HxCDF	34.64	1.38	2.50	2.80E+04	1.319
1,2,3,4,6,7,8-HpCDF	35.42	1.95	2.50	2.31E+04	1.086
1,2,3,4,7,8,9-HpCDF	36.24	1.78	2.50	1.91E+04	1.120
OCDF	37.59	0.88	5.00	3.70E+04	1.387
Extraction Standards					
13C12-2,3,7,8-TCDD	28.48	0.78	100.00	1.03E+06	1.168
13C12-1,2,3,7,8-PeCDD	32.31	1.55	100.00	7.50E+05	0.847
13C12-1,2,3,4,7,8-HxCDD	34.3	1.26	100.00	7.14E+05	0.910
13C12-1,2,3,6,7,8-HxCDD	34.35	1.32	100.00	7.56E+05	0.964
13C12-1,2,3,4,6,7,8-HpCDD	35.98	1.04	100.00	6.33E+05	0.808
13C12-OCDD	37.49	0.91	200.00	1.07E+06	0.679
13C12-2,3,7,8-TCDF	27.57	0.77	100.00	1.52E+06	1.718
13C12-1,2,3,7,8-PeCDF	31.4	1.59	100.00	1.19E+06	1.339
13C12-2,3,4,7,8-PeCDF	32.1	1.59	100.00	1.14E+06	1.292
13C12-1,2,3,4,7,8-HxCDF	33.82	0.53	100.00	9.98E+05	1.272
13C12-1,2,3,6,7,8-HxCDF	33.9	0.55	100.00	1.07E+06	1.360
13C12-2,3,4,6,7,8-HxCDF	34.22	0.52	100.00	9.20E+05	1.173
13C12-1,2,3,7,8,9-HxCDF	34.64	0.55	100.00	8.49E+05	1.082
13C12-1,2,3,4,6,7,8-HpCDF	35.41	0.45	100.00	8.51E+05	1.085
13C12-1,2,3,4,7,8,9-HpCDF	36.23	0.47	100.00	6.81E+05	0.868
Cleanup Standard					
37Cl4-2,3,7,8-TCDD (Cleanup)	28.5		0.50	4.89E+03	1.105
Labeled Injection Standards					
13C12-1,2,3,4-TCDD	27.8	0.76	100.00	8.85E+05	8851.619
13C12-1,2,3,7,8,9-HxCDD	34.48	1.28	100.00	7.84E+05	7844.946

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Calibration Report

ALS Sample ID **H7-21-CS2-0199**
Analysis Method EPA 1613B
Analysis Type Calibration

Filename	Inst #	Column	Run Date	Approved:	*K.BERG*
7-210611A02	HRMS-7	DB5MSUS1221911H	11-Jun-2021 13:13		--e-signature-- 14-Oct-2021

Target Analytes	Ret. Time	Ion Ratio	Concentration ng/mL	Response	RRF
2,3,7,8-TCDD	28.54	0.83	2.00	1.89E+04	1.178
1,2,3,7,8-PeCDD	32.33	1.69	10.00	5.29E+04	0.960
1,2,3,4,7,8-HxCDD	34.32	1.22	10.00	5.30E+04	1.102
1,2,3,6,7,8-HxCDD	34.38	1.26	10.00	5.07E+04	1.029
1,2,3,7,8,9-HxCDD	34.5	1.19	10.00	5.03E+04	1.033
1,2,3,4,6,7,8-HpCDD	35.99	1.04	10.00	4.03E+04	1.032
OCDD	37.5	0.91	20.00	5.05E+04	1.058
2,3,7,8-TCDF	27.64	0.66	2.00	2.52E+04	1.062
1,2,3,7,8-PeCDF	31.43	1.69	10.00	9.89E+04	1.096
2,3,4,7,8-PeCDF	32.12	1.61	10.00	1.00E+05	1.183
1,2,3,4,7,8-HxCDF	33.85	1.25	10.00	8.82E+04	1.305
1,2,3,6,7,8-HxCDF	33.92	1.33	10.00	9.57E+04	1.279
2,3,4,6,7,8-HxCDF	34.24	1.29	10.00	8.73E+04	1.412
1,2,3,7,8,9-HxCDF	34.65	1.23	10.00	7.31E+04	1.261
1,2,3,4,6,7,8-HpCDF	35.44	2.12	10.00	5.66E+04	1.079
1,2,3,4,7,8,9-HpCDF	36.26	1.78	10.00	4.48E+04	1.123
OCDF	37.6	0.93	20.00	7.07E+04	1.481
Extraction Standards					
13C12-2,3,7,8-TCDD	28.53	0.78	100.00	8.04E+05	1.125
13C12-1,2,3,7,8-PeCDD	32.32	1.54	100.00	5.51E+05	0.771
13C12-1,2,3,4,7,8-HxCDD	34.32	1.27	100.00	4.81E+05	0.913
13C12-1,2,3,6,7,8-HxCDD	34.37	1.27	100.00	4.93E+05	0.936
13C12-1,2,3,4,6,7,8-HpCDD	35.99	1.05	100.00	3.91E+05	0.741
13C12-OCDD	37.5	0.90	200.00	4.77E+05	0.453
13C12-2,3,7,8-TCDF	27.61	0.78	100.00	1.19E+06	1.660
13C12-1,2,3,7,8-PeCDF	31.42	1.61	100.00	9.02E+05	1.263
13C12-2,3,4,7,8-PeCDF	32.11	1.57	100.00	8.49E+05	1.189
13C12-1,2,3,4,7,8-HxCDF	33.84	0.53	100.00	6.76E+05	1.282
13C12-1,2,3,6,7,8-HxCDF	33.91	0.54	100.00	7.48E+05	1.420
13C12-2,3,4,6,7,8-HxCDF	34.23	0.54	100.00	6.19E+05	1.174
13C12-1,2,3,7,8,9-HxCDF	34.64	0.53	100.00	5.80E+05	1.100
13C12-1,2,3,4,6,7,8-HpCDF	35.42	0.44	100.00	5.24E+05	0.995
13C12-1,2,3,4,7,8,9-HpCDF	36.24	0.46	100.00	3.99E+05	0.757
Cleanup Standard					
37Cl4-2,3,7,8-TCDD (Cleanup)	28.54		2.00	1.73E+04	1.210
Labeled Injection Standards					
13C12-1,2,3,4-TCDD	27.84	0.78	100.00	7.14E+05	7143.855
13C12-1,2,3,7,8,9-HxCDD	34.49	1.26	100.00	5.27E+05	5269.898

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Calibration Report

ALS Sample ID **H7-21-CCV-0287**
Analysis Method EPA 1613B
Analysis Type Calibration

Filename	Inst #	Column	Run Date	Approved:	*K.BERG*
7-210611A01	HRMS-7	DB5MSUS1221911H	11-Jun-2021 12:07		--e-signature-- 14-Oct-2021

Target Analytes	Ret. Time	Ion Ratio	Concentration ng/mL	Response	RRF
2,3,7,8-TCDD	28.54	0.79	10.00	1.46E+05	1.124
1,2,3,7,8-PeCDD	32.33	1.62	50.00	4.55E+05	0.980
1,2,3,4,7,8-HxCDD	34.32	1.42	50.00	3.95E+05	0.992
1,2,3,6,7,8-HxCDD	34.38	1.13	50.00	3.98E+05	1.025
1,2,3,7,8,9-HxCDD	34.5	1.25	50.00	3.93E+05	0.999
1,2,3,4,6,7,8-HpCDD	35.99	1.05	50.00	2.83E+05	1.048
OCDD	37.51	0.91	100.00	3.50E+05	1.051
2,3,7,8-TCDF	27.63	0.82	10.00	2.13E+05	1.067
1,2,3,7,8-PeCDF	31.43	1.60	50.00	8.87E+05	1.093
2,3,4,7,8-PeCDF	32.12	1.60	50.00	8.98E+05	1.244
1,2,3,4,7,8-HxCDF	33.85	1.27	50.00	7.61E+05	1.335
1,2,3,6,7,8-HxCDF	33.91	1.27	50.00	7.51E+05	1.259
2,3,4,6,7,8-HxCDF	34.24	1.25	50.00	7.59E+05	1.407
1,2,3,7,8,9-HxCDF	34.65	1.28	50.00	5.77E+05	1.277
1,2,3,4,6,7,8-HpCDF	35.44	1.93	50.00	4.23E+05	1.052
1,2,3,4,7,8,9-HpCDF	36.26	1.94	50.00	3.15E+05	1.061
OCDF	37.6	0.93	100.00	4.80E+05	1.441
Extraction Standards					
13C12-2,3,7,8-TCDD	28.51	0.76	100.00	1.30E+06	1.173
13C12-1,2,3,7,8-PeCDD	32.32	1.53	100.00	9.28E+05	0.837
13C12-1,2,3,4,7,8-HxCDD	34.31	1.27	100.00	7.97E+05	0.975
13C12-1,2,3,6,7,8-HxCDD	34.37	1.28	100.00	7.76E+05	0.949
13C12-1,2,3,4,6,7,8-HpCDD	35.99	1.07	100.00	5.41E+05	0.662
13C12-OCDD	37.5	0.89	200.00	6.67E+05	0.408
13C12-2,3,7,8-TCDF	27.61	0.79	100.00	1.99E+06	1.795
13C12-1,2,3,7,8-PeCDF	31.42	1.60	100.00	1.62E+06	1.463
13C12-2,3,4,7,8-PeCDF	32.11	1.62	100.00	1.44E+06	1.301
13C12-1,2,3,4,7,8-HxCDF	33.84	0.53	100.00	1.14E+06	1.395
13C12-1,2,3,6,7,8-HxCDF	33.9	0.55	100.00	1.19E+06	1.459
13C12-2,3,4,6,7,8-HxCDF	34.23	0.55	100.00	1.08E+06	1.319
13C12-1,2,3,7,8,9-HxCDF	34.64	0.54	100.00	9.04E+05	1.106
13C12-1,2,3,4,6,7,8-HpCDF	35.42	0.45	100.00	8.03E+05	0.982
13C12-1,2,3,4,7,8,9-HpCDF	36.24	0.44	100.00	5.93E+05	0.726
Cleanup Standard					
37Cl4-2,3,7,8-TCDD (Cleanup)	28.54		10.00	1.29E+05	1.159
Labeled Injection Standards					
13C12-1,2,3,4-TCDD	27.83	0.78	100.00	1.11E+06	11093.541
13C12-1,2,3,7,8,9-HxCDD	34.49	1.23	100.00	8.17E+05	8174.433

ALS Life Sciences

Calibration Report

ALS Sample ID **H7-21-CS4-0199**
Analysis Method EPA 1613B
Analysis Type Calibration

Filename	Inst #	Column	Run Date	Approved:	*K.BERG*
7-210611A07	HRMS-7	DB5MSUS1221911H	11-Jun-2021 16:48		--e-signature-- 14-Oct-2021

Target Analytes	Ret. Time	Ion Ratio	Concentration ng/mL	Response	RRF
2,3,7,8-TCDD	28.51	0.79	40.00	3.59E+05	1.166
1,2,3,7,8-PeCDD	32.32	1.64	200.00	1.15E+06	1.048
1,2,3,4,7,8-HxCDD	34.31	1.25	200.00	9.68E+05	1.119
1,2,3,6,7,8-HxCDD	34.37	1.29	200.00	1.04E+06	1.021
1,2,3,7,8,9-HxCDD	34.49	1.26	200.00	9.81E+05	1.039
1,2,3,4,6,7,8-HpCDD	35.99	1.08	200.00	7.15E+05	1.048
OCDD	37.5	0.90	400.00	8.70E+05	1.087
2,3,7,8-TCDF	27.6	0.78	40.00	5.01E+05	1.085
1,2,3,7,8-PeCDF	31.41	1.59	200.00	2.03E+06	1.148
2,3,4,7,8-PeCDF	32.11	1.58	200.00	2.19E+06	1.257
1,2,3,4,7,8-HxCDF	33.84	1.25	200.00	1.80E+06	1.389
1,2,3,6,7,8-HxCDF	33.91	1.31	200.00	2.01E+06	1.339
2,3,4,6,7,8-HxCDF	34.23	1.24	200.00	1.79E+06	1.471
1,2,3,7,8,9-HxCDF	34.65	1.30	200.00	1.49E+06	1.345
1,2,3,4,6,7,8-HpCDF	35.42	1.87	200.00	1.07E+06	1.098
1,2,3,4,7,8,9-HpCDF	36.24	1.85	200.00	8.09E+05	1.159
OCDF	37.59	0.89	400.00	1.35E+06	1.685
Extraction Standards					
13C12-2,3,7,8-TCDD	28.5	0.79	100.00	7.69E+05	1.179
13C12-1,2,3,7,8-PeCDD	32.31	1.51	100.00	5.47E+05	0.838
13C12-1,2,3,4,7,8-HxCDD	34.31	1.29	100.00	4.33E+05	0.847
13C12-1,2,3,6,7,8-HxCDD	34.37	1.26	100.00	5.12E+05	1.001
13C12-1,2,3,4,6,7,8-HpCDD	35.98	1.07	100.00	3.41E+05	0.667
13C12-OCDD	37.49	0.90	200.00	4.00E+05	0.392
13C12-2,3,7,8-TCDF	27.58	0.78	100.00	1.16E+06	1.770
13C12-1,2,3,7,8-PeCDF	31.4	1.60	100.00	8.85E+05	1.356
13C12-2,3,4,7,8-PeCDF	32.1	1.60	100.00	8.73E+05	1.337
13C12-1,2,3,4,7,8-HxCDF	33.82	0.56	100.00	6.48E+05	1.269
13C12-1,2,3,6,7,8-HxCDF	33.9	0.53	100.00	7.49E+05	1.467
13C12-2,3,4,6,7,8-HxCDF	34.22	0.54	100.00	6.07E+05	1.188
13C12-1,2,3,7,8,9-HxCDF	34.64	0.56	100.00	5.53E+05	1.082
13C12-1,2,3,4,6,7,8-HpCDF	35.41	0.45	100.00	4.88E+05	0.956
13C12-1,2,3,4,7,8,9-HpCDF	36.23	0.47	100.00	3.49E+05	0.683
Cleanup Standard					
37Cl4-2,3,7,8-TCDD (Cleanup)	28.51		40.00	3.16E+05	1.211
Labeled Injection Standards					
13C12-1,2,3,4-TCDD	27.8	0.78	100.00	6.53E+05	6528.252
13C12-1,2,3,7,8,9-HxCDD	34.49	1.19	100.00	5.11E+05	5109.015

ALS Life Sciences

Calibration Report

ALS Sample ID **H7-21-CS5-0199**
Analysis Method EPA 1613B
Analysis Type Calibration

Filename	Inst #	Column	Run Date	Approved:	*K.BERG*
7-210611A06	HRMS-7	DB5MSUS1221911H	11-Jun-2021 16:04		--e-signature-- 14-Oct-2021

Target Analytes	Ret. Time	Ion Ratio	Concentration ng/mL	Response	RRF
2,3,7,8-TCDD	28.51	0.79	200.00	1.78E+06	1.173
1,2,3,7,8-PeCDD	32.32	1.62	1000.00	5.85E+06	1.025
1,2,3,4,7,8-HxCDD	34.32	1.26	1000.00	4.88E+06	0.971
1,2,3,6,7,8-HxCDD	34.38	1.26	1000.00	5.66E+06	1.110
1,2,3,7,8,9-HxCDD	34.5	1.25	1000.00	4.98E+06	0.985
1,2,3,4,6,7,8-HpCDD	35.99	1.08	1000.00	3.68E+06	1.012
OCDD	37.51	0.90	2000.00	5.31E+06	1.017
2,3,7,8-TCDF	27.61	0.79	200.00	2.43E+06	1.078
1,2,3,7,8-PeCDF	31.42	1.58	1000.00	1.05E+07	1.143
2,3,4,7,8-PeCDF	32.12	1.60	1000.00	1.10E+07	1.233
1,2,3,4,7,8-HxCDF	33.85	1.27	1000.00	9.32E+06	1.395
1,2,3,6,7,8-HxCDF	33.91	1.27	1000.00	9.89E+06	1.311
2,3,4,6,7,8-HxCDF	34.24	1.27	1000.00	8.98E+06	1.441
1,2,3,7,8,9-HxCDF	34.65	1.27	1000.00	7.43E+06	1.314
1,2,3,4,6,7,8-HpCDF	35.42	1.90	1000.00	5.31E+06	1.058
1,2,3,4,7,8,9-HpCDF	36.24	1.91	1000.00	4.08E+06	1.068
OCDF	37.6	0.92	2000.00	8.01E+06	1.535
Extraction Standards					
13C12-2,3,7,8-TCDD	28.5	0.76	100.00	7.59E+05	1.237
13C12-1,2,3,7,8-PeCDD	32.31	1.57	100.00	5.71E+05	0.930
13C12-1,2,3,4,7,8-HxCDD	34.31	1.29	100.00	5.03E+05	0.989
13C12-1,2,3,6,7,8-HxCDD	34.37	1.29	100.00	5.10E+05	1.004
13C12-1,2,3,4,6,7,8-HpCDD	35.98	1.01	100.00	3.64E+05	0.716
13C12-OCDD	37.5	0.88	200.00	5.22E+05	0.514
13C12-2,3,7,8-TCDF	27.58	0.80	100.00	1.13E+06	1.840
13C12-1,2,3,7,8-PeCDF	31.41	1.57	100.00	9.19E+05	1.497
13C12-2,3,4,7,8-PeCDF	32.11	1.58	100.00	8.92E+05	1.453
13C12-1,2,3,4,7,8-HxCDF	33.84	0.54	100.00	6.69E+05	1.316
13C12-1,2,3,6,7,8-HxCDF	33.9	0.54	100.00	7.55E+05	1.485
13C12-2,3,4,6,7,8-HxCDF	34.23	0.55	100.00	6.23E+05	1.227
13C12-1,2,3,7,8,9-HxCDF	34.64	0.54	100.00	5.66E+05	1.114
13C12-1,2,3,4,6,7,8-HpCDF	35.42	0.47	100.00	5.02E+05	0.988
13C12-1,2,3,4,7,8,9-HpCDF	36.24	0.47	100.00	3.81E+05	0.751
Cleanup Standard					
37Cl4-2,3,7,8-TCDD (Cleanup)	28.51		200.00	1.61E+06	1.311
Labeled Injection Standards					
13C12-1,2,3,4-TCDD	27.82	0.76	100.00	6.14E+05	6136.832
13C12-1,2,3,7,8,9-HxCDD	34.49	1.28	100.00	5.08E+05	5080.442

ALS Life Sciences

Second Source Calibration Verification Report

Sample Name	**CVS**	Sampling Date	n/a		
ALS Sample ID	H7-21-RS1-0199	Extraction Date	n/a		Approved:
Analysis Method	EPA 1613B	Sample Size	1	n/a	*K.BERG*
Analysis Type	CCV	Percent Moisture	n/a		--e-signature--
Sample Matrix	QC	Split Ratio	1		14-Oct-2021

Run Information	**Run 1**
Filename	7-210611A08
Run Date	11-Jun-21 17:31
Final Volume	10 uL
Dilution Factor	1
Analysis Units	%
Instrument - Column	HRMS 7 DB5MSUS1221911H

Target Analytes	**pg/uL**	**Ret. Time**	**% Rec**	**Limits**	**Flags**
2,3,7,8-TCDD	10	28.50	95	78-129	
1,2,3,7,8-PeCDD	50	32.31	109	78-130	
1,2,3,4,7,8-HxCDD	50	34.31	100	78-128	
1,2,3,6,7,8-HxCDD	50	34.37	108	78-128	
1,2,3,7,8,9-HxCDD	50	34.49	110	82-122	
1,2,3,4,6,7,8-HpCDD	50	35.98	104	86-116	
OCDD	100	37.49	104	79-126	
2,3,7,8-TCDF	10	27.60	104	84-120	
1,2,3,7,8-PeCDF	50	31.41	103	82-120	
2,3,4,7,8-PeCDF	50	32.11	98	82-122	
1,2,3,4,7,8-HxCDF	50	33.84	101	90-112	
1,2,3,6,7,8-HxCDF	50	33.90	101	88-114	
2,3,4,6,7,8-HxCDF	50	34.23	99	88-114	
1,2,3,7,8,9-HxCDF	50	34.64	111	90-112	
1,2,3,4,6,7,8-HpCDF	50	35.41	100	90-110	
1,2,3,4,7,8,9-HpCDF	50	36.23	102	86-116	
OCDF	100	37.59	114	63-159	

Extraction Standards	**pg/uL**		**% Rec**	**Limits**
13C12-2,3,7,8-TCDD	100	28.48	97	82-121
13C12-1,2,3,7,8-PeCDD	100	32.30	94	62-160
13C12-1,2,3,4,7,8-HxCDD	100	34.30	95	85-117
13C12-1,2,3,6,7,8-HxCDD	100	34.35	101	85-118
13C12-1,2,3,4,6,7,8-HpCDD	100	35.97	105	72-138
13C12-OCDD	200	37.48	95	48-207
13C12-2,3,7,8-TCDF	100	27.58	99	71-140
13C12-1,2,3,7,8-PeCDF	100	31.40	97	76-130
13C12-2,3,4,7,8-PeCDF	100	32.10	94	77-130
13C12-1,2,3,4,7,8-HxCDF	100	33.82	105	76-131
13C12-1,2,3,6,7,8-HxCDF	100	33.89	103	70-143
13C12-2,3,4,6,7,8-HxCDF	100	34.22	103	73-137
13C12-1,2,3,7,8,9-HxCDF	100	34.63	100	74-135
13C12-1,2,3,4,6,7,8-HpCDF	100	35.41	105	78-129
13C12-1,2,3,4,7,8,9-HpCDF	100	36.23	106	77-129

Cleanup Standard	**pg/uL**			
37Cl4-2,3,7,8-TCDD (Cleanup)	10	28.51	114	31-191

ALS Life Sciences

Continuing Calibration Report

Sample Name	**CCV**	Sampling Date	n/a		
ALS Sample ID	H7-21-CCV-600	Extraction Date	n/a		Approved:
Analysis Method	EPA 1613B	Sample Size	1	n/a	*K.BERG*
Analysis Type	CCV	Percent Moisture	n/a		--e-signature--
Sample Matrix	QC	Split Ratio	1		14-Oct-2021

Run Information	**Run 1**
Filename	7-211009A01
Run Date	09-Oct-21 02:56
Final Volume	10 uL
Dilution Factor	1
Analysis Units	%
Instrument - Column	HRMS 7 DB5MSUS1331822H

Target Analytes	**pg/uL**	**Ret. Time**	**% Rec**	**Limits**	**Flags**
2,3,7,8-TCDD	10	28.64	92	78-129	
1,2,3,7,8-PeCDD	50	32.39	100	78-130	
1,2,3,4,7,8-HxCDD	50	34.37	108	78-128	
1,2,3,6,7,8-HxCDD	50	34.42	98	78-128	
1,2,3,7,8,9-HxCDD	50	34.55	115	82-122	
1,2,3,4,6,7,8-HpCDD	50	36.05	102	86-116	
OCDD	100	37.57	96	79-126	
2,3,7,8-TCDF	10	27.74	120	84-120	M
1,2,3,7,8-PeCDF	50	31.51	102	82-120	
2,3,4,7,8-PeCDF	50	32.20	103	82-122	
1,2,3,4,7,8-HxCDF	50	33.90	106	90-112	
1,2,3,6,7,8-HxCDF	50	33.96	105	88-114	
2,3,4,6,7,8-HxCDF	50	34.29	103	88-114	
1,2,3,7,8,9-HxCDF	50	34.71	99	90-112	
1,2,3,4,6,7,8-HpCDF	50	35.48	104	90-110	
1,2,3,4,7,8,9-HpCDF	50	36.30	100	86-116	
OCDF	100	37.66	101	63-159	

Extraction Standards	**pg/uL**		**% Rec**	**Limits**	
13C12-2,3,7,8-TCDD	100	28.62	94	82-121	
13C12-1,2,3,7,8-PeCDD	100	32.38	88	62-160	
13C12-1,2,3,4,7,8-HxCDD	100	34.37	77	85-117	
13C12-1,2,3,6,7,8-HxCDD	100	34.41	103	85-118	
13C12-1,2,3,4,6,7,8-HpCDD	100	36.04	101	72-138	
13C12-OCDD	200	37.57	138	48-207	
13C12-2,3,7,8-TCDF	100	27.73	89	71-140	M
13C12-1,2,3,7,8-PeCDF	100	31.50	88	76-130	
13C12-2,3,4,7,8-PeCDF	100	32.19	95	77-130	
13C12-1,2,3,4,7,8-HxCDF	100	33.89	81	76-131	
13C12-1,2,3,6,7,8-HxCDF	100	33.95	104	70-143	
13C12-2,3,4,6,7,8-HxCDF	100	34.28	101	73-137	
13C12-1,2,3,7,8,9-HxCDF	100	34.71	95	74-135	
13C12-1,2,3,4,6,7,8-HpCDF	100	35.48	108	78-129	
13C12-1,2,3,4,7,8,9-HpCDF	100	36.30	108	77-129	

Cleanup Standard	**pg/uL**			
37Cl4-2,3,7,8-TCDD (Cleanup)	10	28.64	89	31-191

M Indicates that a peak has been manually integrated.

ALS Life Sciences

Continuing Calibration Report

Sample Name	**CCV**	Sampling Date	n/a		
ALS Sample ID	H7-21-CCV-601	Extraction Date	n/a		Approved:
Analysis Method	EPA 1613B	Sample Size	1	n/a	*K.BERG*
Analysis Type	CCV	Percent Moisture	n/a		--e-signature--
Sample Matrix	QC	Split Ratio	1		14-Oct-2021

Run Information	**Run 1**
Filename	7-211009A10
Run Date	09-Oct-21 09:29
Final Volume	10 uL
Dilution Factor	1
Analysis Units	%
Instrument - Column	HRMS 7 DB5MSUS1331822H

Target Analytes	**pg/uL**	**Ret. Time**	**% Rec**	**Limits**	**Flags**
2,3,7,8-TCDD	10	28.59	92	78-129	
1,2,3,7,8-PeCDD	50	32.37	101	78-130	
1,2,3,4,7,8-HxCDD	50	34.36	107	78-128	
1,2,3,6,7,8-HxCDD	50	34.41	99	78-128	
1,2,3,7,8,9-HxCDD	50	34.54	115	82-122	
1,2,3,4,6,7,8-HpCDD	50	36.04	104	86-116	
OCDD	100	37.57	99	79-126	
2,3,7,8-TCDF	10	27.68	117	84-120	
1,2,3,7,8-PeCDF	50	31.48	103	82-120	
2,3,4,7,8-PeCDF	50	32.18	100	82-122	
1,2,3,4,7,8-HxCDF	50	33.89	104	90-112	
1,2,3,6,7,8-HxCDF	50	33.95	104	88-114	
2,3,4,6,7,8-HxCDF	50	34.28	104	88-114	
1,2,3,7,8,9-HxCDF	50	34.70	101	90-112	
1,2,3,4,6,7,8-HpCDF	50	35.47	101	90-110	
1,2,3,4,7,8,9-HpCDF	50	36.30	101	86-116	
OCDF	100	37.66	102	63-159	
Extraction Standards	**pg/uL**		**% Rec**	**Limits**	
13C12-2,3,7,8-TCDD	100	28.57	96	82-121	
13C12-1,2,3,7,8-PeCDD	100	32.36	93	62-160	
13C12-1,2,3,4,7,8-HxCDD	100	34.36	79	85-117	
13C12-1,2,3,6,7,8-HxCDD	100	34.40	99	85-118	
13C12-1,2,3,4,6,7,8-HpCDD	100	36.03	89	72-138	
13C12-OCDD	200	37.56	93	48-207	
13C12-2,3,7,8-TCDF	100	27.67	88	71-140	
13C12-1,2,3,7,8-PeCDF	100	31.46	93	76-130	
13C12-2,3,4,7,8-PeCDF	100	32.16	97	77-130	
13C12-1,2,3,4,7,8-HxCDF	100	33.88	85	76-131	
13C12-1,2,3,6,7,8-HxCDF	100	33.94	97	70-143	
13C12-2,3,4,6,7,8-HxCDF	100	34.27	94	73-137	
13C12-1,2,3,7,8,9-HxCDF	100	34.69	89	74-135	
13C12-1,2,3,4,6,7,8-HpCDF	100	35.47	100	78-129	
13C12-1,2,3,4,7,8,9-HpCDF	100	36.29	92	77-129	
Cleanup Standard	**pg/uL**				
37Cl4-2,3,7,8-TCDD (Cleanup)	10	28.59	94	31-191	

ALS Life Sciences

Continuing Calibration Report

Sample Name	**CCV**	Sampling Date	n/a		
ALS Sample ID	H7-21-CCV-602	Extraction Date	n/a		Approved:
Analysis Method	EPA 1613B	Sample Size	1	n/a	*K.BERG*
Analysis Type	CCV	Percent Moisture	n/a		--e-signature--
Sample Matrix	QC	Split Ratio	1		14-Oct-2021

Run Information	**Run 1**
Filename	7-211009B01
Run Date	09-Oct-21 11:26
Final Volume	10 uL
Dilution Factor	1
Analysis Units	%
Instrument - Column	HRMS 7 DB5MSUS1331822H

Target Analytes	**pg/uL**	**Ret. Time**	**% Rec**	**Limits**	**Flags**
2,3,7,8-TCDD	10	28.47	88	78-129	
1,2,3,7,8-PeCDD	50	32.31	103	78-130	
1,2,3,4,7,8-HxCDD	50	34.30	89	78-128	
1,2,3,6,7,8-HxCDD	50	34.36	111	78-128	
1,2,3,7,8,9-HxCDD	50	34.48	119	82-122	
1,2,3,4,6,7,8-HpCDD	50	35.97	103	86-116	
OCDD	100	37.49	96	79-126	
2,3,7,8-TCDF	10	27.57	107	84-120	
1,2,3,7,8-PeCDF	50	31.41	103	82-120	
2,3,4,7,8-PeCDF	50	32.11	101	82-122	
1,2,3,4,7,8-HxCDF	50	33.83	100	90-112	
1,2,3,6,7,8-HxCDF	50	33.90	102	88-114	
2,3,4,6,7,8-HxCDF	50	34.22	97	88-114	
1,2,3,7,8,9-HxCDF	50	34.64	99	90-112	
1,2,3,4,6,7,8-HpCDF	50	35.41	101	90-110	
1,2,3,4,7,8,9-HpCDF	50	36.24	96	86-116	
OCDF	100	37.58	98	63-159	

Extraction Standards	**pg/uL**		**% Rec**	**Limits**
13C12-2,3,7,8-TCDD	100	28.46	96	82-121
13C12-1,2,3,7,8-PeCDD	100	32.30	95	62-160
13C12-1,2,3,4,7,8-HxCDD	100	34.29	75	85-117
13C12-1,2,3,6,7,8-HxCDD	100	34.35	97	85-118
13C12-1,2,3,4,6,7,8-HpCDD	100	35.96	87	72-138
13C12-OCDD	200	37.48	95	48-207
13C12-2,3,7,8-TCDF	100	27.54	89	71-140
13C12-1,2,3,7,8-PeCDF	100	31.40	92	76-130
13C12-2,3,4,7,8-PeCDF	100	32.10	100	77-130
13C12-1,2,3,4,7,8-HxCDF	100	33.83	79	76-131
13C12-1,2,3,6,7,8-HxCDF	100	33.89	95	70-143
13C12-2,3,4,6,7,8-HxCDF	100	34.21	94	73-137
13C12-1,2,3,7,8,9-HxCDF	100	34.63	87	74-135
13C12-1,2,3,4,6,7,8-HpCDF	100	35.40	96	78-129
13C12-1,2,3,4,7,8,9-HpCDF	100	36.22	92	77-129

Cleanup Standard	**pg/uL**			
37Cl4-2,3,7,8-TCDD (Cleanup)	10	28.47	95	31-191

ALS Life Sciences

Continuing Calibration Report

Sample Name	**CCV**	Sampling Date	n/a		
ALS Sample ID	H7-21-CCV-603	Extraction Date	n/a		Approved:
Analysis Method	EPA 1613B	Sample Size	1	n/a	*K.BERG*
Analysis Type	CCV	Percent Moisture	n/a		--e-signature--
Sample Matrix	QC	Split Ratio	1		14-Oct-2021

Run Information	**Run 1**
Filename	7-211009B11
Run Date	09-Oct-21 18:44
Final Volume	10 uL
Dilution Factor	1
Analysis Units	%
Instrument - Column	HRMS 7 DB5MSUS1331822H

Target Analytes	**pg/uL**	**Ret. Time**	**% Rec**	**Limits**	**Flags**
2,3,7,8-TCDD	10	28.57	88	78-129	
1,2,3,7,8-PeCDD	50	32.37	100	78-130	
1,2,3,4,7,8-HxCDD	50	34.36	108	78-128	
1,2,3,6,7,8-HxCDD	50	34.41	99	78-128	M
1,2,3,7,8,9-HxCDD	50	34.54	122	82-122	M
1,2,3,4,6,7,8-HpCDD	50	36.03	99	86-116	
OCDD	100	37.55	95	79-126	
2,3,7,8-TCDF	10	27.67	108	84-120	
1,2,3,7,8-PeCDF	50	31.48	105	82-120	
2,3,4,7,8-PeCDF	50	32.16	102	82-122	
1,2,3,4,7,8-HxCDF	50	33.88	100	90-112	
1,2,3,6,7,8-HxCDF	50	33.95	105	88-114	
2,3,4,6,7,8-HxCDF	50	34.27	101	88-114	
1,2,3,7,8,9-HxCDF	50	34.70	99	90-112	
1,2,3,4,6,7,8-HpCDF	50	35.47	102	90-110	
1,2,3,4,7,8,9-HpCDF	50	36.29	97	86-116	
OCDF	100	37.65	100	63-159	
Extraction Standards	**pg/uL**		**% Rec**	**Limits**	
13C12-2,3,7,8-TCDD	100	28.56	95	82-121	
13C12-1,2,3,7,8-PeCDD	100	32.35	95	62-160	
13C12-1,2,3,4,7,8-HxCDD	100	34.35	59	85-117	
13C12-1,2,3,6,7,8-HxCDD	100	34.40	101	85-118	
13C12-1,2,3,4,6,7,8-HpCDD	100	36.02	87	72-138	
13C12-OCDD	200	37.54	99	48-207	
13C12-2,3,7,8-TCDF	100	27.64	86	71-140	
13C12-1,2,3,7,8-PeCDF	100	31.46	92	76-130	
13C12-2,3,4,7,8-PeCDF	100	32.15	97	77-130	
13C12-1,2,3,4,7,8-HxCDF	100	33.87	68	76-131	R
13C12-1,2,3,6,7,8-HxCDF	100	33.94	95	70-143	
13C12-2,3,4,6,7,8-HxCDF	100	34.26	86	73-137	
13C12-1,2,3,7,8,9-HxCDF	100	34.69	88	74-135	
13C12-1,2,3,4,6,7,8-HpCDF	100	35.46	96	78-129	
13C12-1,2,3,4,7,8,9-HpCDF	100	36.28	90	77-129	
Cleanup Standard	**pg/uL**				
37Cl4-2,3,7,8-TCDD (Cleanup)	10	28.57	90	31-191	

M	Indicates that a peak has been manually integrated.
R	Indicates that the ion abundance ratio for this compound did not meet the acceptance criterion.

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SVOC DATA PACKAGE

SECTION 5: QC SAMPLE DATA

Including:

- Laboratory Method Blank Analysis Reports
- Laboratory Control Sample Analysis Reports
- Matrix Spike Analysis Reports
- Other QC Sample Analysis Reports (where applicable)

ALS Life Sciences

Laboratory Method Blank Analysis Report

Sample Name	**Method Blank**	Sampling Date	n/a		
ALS Sample ID	WG3603564-1	Extraction Date	7-Sep-21		Approved:
Analysis Method	EPA 1613B	Sample Size	1.00	L	*K.BERG*
Analysis Type	Blank	Percent Moisture	n/a		--e-signature--
Sample Matrix	QC	Split Ratio	2		14-Oct-2021

Run Information	**Run 1**
Filename	7-211009A08
Run Date	09-Oct-21 08:00
Final Volume	10 uL
Dilution Factor	1
Analysis Units	pg/L
Instrument - Column	HRMS 7 DB5MSUS1331822H

Target Analytes	**TEF (WHO 2005)**	**Ret. Time**	**Conc. pg/L**	**EDL pg/L**	**Flags**	**EMPC pg/L**	**LQL**
2,3,7,8-TCDD	1	NotFnd	<0.26	0.26	U		10
1,2,3,7,8-PeCDD	1	NotFnd	<0.31	0.31	U		50
1,2,3,4,7,8-HxCDD	0.1	NotFnd	<0.35	0.35	U		50
1,2,3,6,7,8-HxCDD	0.1	NotFnd	<0.33	0.33	U		50
1,2,3,7,8,9-HxCDD	0.1	NotFnd	<0.34	0.34	U		50
1,2,3,4,6,7,8-HpCDD	0.01	36.04	<0.80	0.80	U	0.42	50
OCDD	0.0003	37.56	<1.9	0.96	M,J,R	1.9	100
2,3,7,8-TCDF	0.1	NotFnd	<0.31	0.31	U		10
1,2,3,7,8-PeCDF	0.03	31.48	<0.57	0.27	M,J,R	0.57	50
2,3,4,7,8-PeCDF	0.3	32.18	<0.22	0.22	U	0.20	50
1,2,3,4,7,8-HxCDF	0.1	33.90	0.271	0.17	J		50
1,2,3,6,7,8-HxCDF	0.1	NotFnd	<0.16	0.16	U		50
2,3,4,6,7,8-HxCDF	0.1	NotFnd	<0.17	0.17	U		50
1,2,3,7,8,9-HxCDF	0.1	34.70	<0.64	0.27	J,R	0.64	50
1,2,3,4,6,7,8-HpCDF	0.01	35.49	0.337	0.26	J		50
1,2,3,4,7,8,9-HpCDF	0.01	NotFnd	<0.44	0.44	U		50
OCDF	0.0003	NotFnd	<0.81	0.81	U		100

Extraction Standards	**pg**		**% Rec**	**Limits**
13C12-2,3,7,8-TCDD	4000	28.57	64	25-164
13C12-1,2,3,7,8-PeCDD	4000	32.36	56	25-181
13C12-1,2,3,4,7,8-HxCDD	4000	34.36	51	32-141
13C12-1,2,3,6,7,8-HxCDD	4000	34.41	70	28-130
13C12-1,2,3,4,6,7,8-HpCDD	4000	36.03	53	23-140
13C12-OCDD	8000	37.56	46	17-157
13C12-2,3,7,8-TCDF	4000	27.67	61	24-169
13C12-1,2,3,7,8-PeCDF	4000	31.48	57	24-185
13C12-2,3,4,7,8-PeCDF	4000	32.16	59	21-178
13C12-1,2,3,4,7,8-HxCDF	4000	33.88	59	26-152
13C12-1,2,3,6,7,8-HxCDF	4000	33.94	73	26-123
13C12-2,3,4,6,7,8-HxCDF	4000	34.27	67	28-136
13C12-1,2,3,7,8,9-HxCDF	4000	34.70	64	29-147
13C12-1,2,3,4,6,7,8-HpCDF	4000	35.47	63	28-143
13C12-1,2,3,4,7,8,9-HpCDF	4000	36.29	53	26-138

Cleanup Standard	**pg**			
37Cl4-2,3,7,8-TCDD (Cleanup)	80	28.60	59	35-197

Homologue Group Totals	**# peaks**	**Conc. pg/L**	**EDL pg/L**		
Total-TCDD	0	<0.26	0.26	U	10
Total-PeCDD	0	<0.31	0.31	U	50
Total-HxCDD	0	<0.35	0.35	U	50
Total-HpCDD	0	<0.80	0.80	U	50
Total-TCDF	0	<0.31	0.31	U	10
Total-PeCDF	0	<0.27	0.27	U	50
Total-HxCDF	1	0.271	0.27		50
Total-HpCDF	0	<0.44	0.44	U	50

Toxic Equivalency - (WHO 2005)	**pg/L**
Lower Bound PCDD/F TEQ (WHO 2005)	0.0305
Mid Point PCDD/F TEQ (WHO 2005)	0.519
Upper Bound PCDD/F TEQ (WHO 2005)	0.927

EDL	Indicates the Estimated Detection Limit, based on the measured background noise for this target in this sample.
TEF	Indicates the Toxic Equivalency Factor
TEQ	Indicates the Toxic Equivalency
M	Indicates that a peak has been manually integrated.
U	Indicates that this compound was not detected above the EDL.
J	Indicates that a target analyte was detected below the calibrated range.
R	Indicates that the ion abundance ratio for this compound did not meet the acceptance criterion.
LQL	Lower Quantification Limit, based on the lowest calibration level corrected for sample size, splits and dilutions.
EMPC	Estimated Maximum Possible Concentration – elevated detection limit due to interference or positive id criterion failure

ALS Life Sciences

Laboratory Control Sample Analysis Report

Sample Name	**Laboratory Control Sample**	Sampling Date	n/a		
ALS Sample ID	WG3603564-2	Extraction Date	7-Sep-21		Approved:
Analysis Method	EPA 1613B	Sample Size	1	N/A	*K.BERG*
Analysis Type	LCS	Percent Moisture	n/a		--e-signature--
Sample Matrix	QC	Split Ratio	2		14-Oct-2021

Run Information	**Run 1**
Filename	7-211009A02
Run Date	09-Oct-21 03:37
Final Volume	10 uL
Dilution Factor	1
Analysis Units	%
Instrument - Column	HRMS 7 DB5MSUS1331822H

Target Analytes	**pg**	**Ret. Time**	**% Rec**	**Limits**	**Flags**
2,3,7,8-TCDD	400	28.59	80	67-158	
1,2,3,7,8-PeCDD	2000	32.37	110	70-142	
1,2,3,4,7,8-HxCDD	2000	34.36	106	70-164	
1,2,3,6,7,8-HxCDD	2000	34.41	94	76-134	
1,2,3,7,8,9-HxCDD	2000	34.54	116	64-162	
1,2,3,4,6,7,8-HpCDD	2000	36.03	101	70-140	
OCDD	4000	37.56	95	78-144	
2,3,7,8-TCDF	400	27.68	101	75-158	
1,2,3,7,8-PeCDF	2000	31.48	108	80-134	
2,3,4,7,8-PeCDF	2000	32.16	97	68-160	
1,2,3,4,7,8-HxCDF	2000	33.88	106	72-134	
1,2,3,6,7,8-HxCDF	2000	33.95	98	84-130	
2,3,4,6,7,8-HxCDF	2000	34.27	96	70-156	
1,2,3,7,8,9-HxCDF	2000	34.70	106	78-130	
1,2,3,4,6,7,8-HpCDF	2000	35.47	99	82-122	
1,2,3,4,7,8,9-HpCDF	2000	36.29	100	78-138	
OCDF	4000	37.66	104	63-170	
Extraction Standards	**pg**		**% Rec**	**Limits**	
13C12-2,3,7,8-TCDD	4000	28.57	57	20-175	
13C12-1,2,3,7,8-PeCDD	4000	32.35	52	21-227	
13C12-1,2,3,4,7,8-HxCDD	4000	34.35	44	21-193	
13C12-1,2,3,6,7,8-HxCDD	4000	34.40	66	25-163	
13C12-1,2,3,4,6,7,8-HpCDD	4000	36.03	49	26-166	
13C12-OCDD	8000	37.55	45	13-138	
13C12-2,3,7,8-TCDF	4000	27.67	55	22-152	
13C12-1,2,3,7,8-PeCDF	4000	31.46	52	21-192	
13C12-2,3,4,7,8-PeCDF	4000	32.15	55	13-328	
13C12-1,2,3,4,7,8-HxCDF	4000	33.87	51	19-202	R
13C12-1,2,3,6,7,8-HxCDF	4000	33.94	65	21-159	
13C12-2,3,4,6,7,8-HxCDF	4000	34.26	61	22-176	
13C12-1,2,3,7,8,9-HxCDF	4000	34.69	56	17-205	
13C12-1,2,3,4,6,7,8-HpCDF	4000	35.46	57	21-158	
13C12-1,2,3,4,7,8,9-HpCDF	4000	36.28	52	20-186	
Cleanup Standard	**pg**				
37Cl4-2,3,7,8-TCDD (Cleanup)	80	28.59	30	31-191	

R Indicates that the ion abundance ratio for this compound did not meet the acceptance criterion.

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SVOC DATA PACKAGE

SECTION 6: INTERNAL RECORDS

Including:

- Prep Logs
- Independent calculation checks
- Others as listed below:

Extraction Workup Sheet

Tray #1

Batch ID:	WG3603564	Analysis:	Water - DX/PCB/PBDE
			PBDE protocol
Analyst:	Navdeep Buttar	Date:	7-Sep-21

SUBSAMPLING

Sample I.D.	Client I.D.	Wet Sub-sample (g)
WG3603564-1	Method Blank	1000
WG3603564-2	Laboratory Control Sample	1000
WG3603564-3	Extraction and Injection STD.	—
L2625428-1	FINAL EFFLUENT	1100
	Copper treat DX portion only!	

BATCH TRACKING

	Date/Time/Initials
Bottle volume marked:	7-Sep-21 4:00pm NB
Client Labels Checked:	7-Sep-21 4:00pm NB
Samples Spiked	7-Sep-21 5:00pm NB
Samples Filtered:	—
Liquid/Liquid extraction:	7-Sep-21 7:00pm NB
Soxhlet start time:	—
Soxhlet reflux properly:	—
Soxhlet end time:	—
Rotovap Reduction:	9-Sep-21 KN
Rotovap Temp Verified:	9-Sep-21 KN
Acid Column:	9-Sep-21 KN
Split:	9-Sep-21 5:40pm NB
Alumina Column:	9-Sep-21 NB
Carbon Column:	10-Sept-21 AM
N-Evap Temp Verified:	10-Sept-21 AM
PCB/PBDE Micro/Robo Vial:	9-Sep-21 MNS

Batch ID:	WG3603564

DX Extraction Standard:

Sample I.D.	Volume (ul)	(Checkmark) Spiked
WG3603564-1	40	✓
WG3603564-2	40	✓
WG3603564-3	40	✓
L2625428-1	40	✓
	40	
	40	
	40	
	40	
	40	
	40	
	40	
	40	
	40	
	40	
	40	

Syringe ID: 318

Standard: 1613B-ES#1-093D

Spike Date: 07-Sep-21

Spike Witnessing

Chemist's Initials

Chemist: NS

Witness's Initials

Witness: GG

Witness's Initials

Correct Syringe Obtained: GG

Witness's Initials

Correct Standard Obtained: GG

Witness's Initials

Correct Technique Followed: GG

PCB Extraction Standard:

Sample I.D.	Volume (ul)	(Checkmark) Spiked
WG3603564-1	40	✓
WG3603564-2	40	✓
WG3603564-3	40	✓
L2625428-1	40	✓
	40	
	40	
	40	
	40	
	40	
	40	
	40	
	40	
	40	
	40	
	40	
	40	

Syringe ID: 382

Standard: 1668A-ES#2-075J

Spike Date: 07-Sep-21

Spike Witnessing

Chemist's Initials

Chemist: NS

Witness's Initials

Witness: GG

Witness's Initials

Correct Syringe Obtained: GG

Witness's Initials

Correct Standard Obtained: GG

Witness's Initials

Correct Technique Followed: GG

Batch ID:	WG3603564

PBDE Extraction Standard:

Sample I.D.	Volume (ul)	(Checkmark) Spiked
WG3603564-1	40	✓
WG3603564-2	40	✓
WG3603564-3	40	✓
L2625428-1	40	✓
	40	
	40	
	40	
	40	
	40	
	40	
	40	
	40	
	40	
	40	
	40	
	40	

Syringe ID: 169

Standard: PBDEX-ES#1- 008D

Spike Date: 07-Sep-~~20~~21

07-Sep-21 GG

Spike Witnessing

Chemist's Initials

Chemist: NB

Witness's Initials

Witness: GG

Witness's Initials

Correct Syringe Obtained: GG

Witness's Initials

Correct Standard Obtained: GG

Witness's Initials

Correct Technique Followed: GG

DX Native Standard:

Sample I.D.	Volume (ul)	(Checkmark) Spiked
WG3603564-2	40	✓
WG3603564-3	40	✓

Syringe ID: 322

Standard: 1613B-NS#3- 035B

Date & Initials: 7-Sep-21 NB

PCB Native Standard:

Sample I.D.	Volume (ul)	(Checkmark) Spiked
WG3603564-2	40	✓
WG3603564-3	40	✓

Syringe ID: 394

Standard: 1668A-NS#1- 043F

Date & Initials: 7-Sep-21 NB

PBDE Native Standard:

Sample I.D.	Volume (ul)	(Checkmark) Spiked
WG3603564-2	40	✓
WG3603564-3	40	✓

Syringe ID: 324

Standard: PBDEX-NS#1- 005B

Date & Initials: 7-Sep-2021 NB

Batch ID:	WG3603564

DX Cleanup Standard:

Sample I.D.	Volume (ul)	(Checkmark) Spiked
WG3603564-1	20	✓
WG3603564-2	20	✓
WG3603564-3	20	N/A
L2625428-1	20	✓
	20	
	20	
	20	
	20	
	20	
	20	
	20	
	20	
	20	
	20	
	20	

Syringe ID: 399

Standard: 1613B-CL#2- 080B

Date & Initials: 9-Sep-21 KM

Chemist's Initials

Correct Syringe Obtained: KM

Chemist's Initials

Correct Standard Obtained: KM

Chemist's Initials

Correct Technique Followed: KM

PCB Cleanup Standard:

Sample I.D.	Volume (ul)	(Checkmark) Spiked
WG3603564-1	20	✓
WG3603564-2	20	✓
WG3603564-3	20	N/A
L2625428-1	20	✓
	20	
	20	
	20	
	20	
	20	
	20	
	20	
	20	
	20	
	20	

Syringe ID: 378

Standard: 1668A-CL#2- 041G

Date & Initials: 9-Sep-21 KM

Chemist's Initials

Correct Syringe Obtained: KM

Chemist's Initials

Correct Standard Obtained: KM

Chemist's Initials

Correct Technique Followed: KM

Batch ID:	WG3603564

PBDE Cleanup Standard:

Sample I.D.	Volume (ul)	(Checkmark) Spiked
WG3603564-1	20	✓
WG3603564-2	20	✓
WG3603564-3	20	N/A
L2625428-1	20	✓
	20	
	20	
	20	
	20	
	20	
	20	
	20	
	20	
	20	
	20	

Syringe ID: 386

Standard: PBDEX-CL#1- 005E

Date & Initials: 9-Sep-21 KM

Correct Syringe Obtained: KM (Chemist's Initials)

Correct Standard Obtained: KM (Chemist's Initials)

Correct Technique Followed: KM (Chemist's Initials)

PCB Injection Standard:

Sample I.D.	Volume (ul)	(Checkmark) Spiked
WG3603564-1	5	✓
WG3603564-2	5	✓
WG3603564-3	5	✓
L2625428-1	5	✓
	5	
	5	
	5	
	5	
	5	
	5	
	5	
	5	
	5	
	5	
	5	
	5	
	5	
	5	
	5	
	5	
	5	

Syringe ID: 407

Standard: 1668A-IS#2- 016

Date & Initials: 9-Sep-21 NS

Correct Syringe Obtained: NS (Chemist's Initials)

Correct Standard Obtained: NS (Chemist's Initials)

Correct Technique Followed: NS (Chemist's Initials)

Batch ID:	WG3603564

PBDE Injection Standard:

Sample I.D.	Volume (ul)	Spiked (Checkmark)
WG3603564-1	5	✓
WG3603564-2	5	✓
WG3603564-3	5	✓
L2625428-1	5	✓
	5	
	5	
	5	
	5	
	5	
	5	
	5	
	5	
	5	
	5	
	5	
	5	
	5	
	5	
	5	
	5	
	5	

Syringe ID: 341

Standard: PBDEX-IS#1- 003E

Date & Initials: 9-Sep-21 NB

Correct Syringe Obtained: (Chemist's Initials) NB

Correct Standard Obtained: (Chemist's Initials) NB

Correct Technique Followed: (Chemist's Initials) NB

DX Injection Standard:

Sample I.D.	Volume (ul)	Spiked (Checkmark)
WG3603564-1	10	✓
WG3603564-2	10	✓
WG3603564-3	10	✓
L2625428-1	10	✓
	10	
	10	
	10	
	10	
	10	
	10	
	10	
	10	
	10	
	10	
	10	
	10	
	10	
	10	
	10	
	10	
	10	
	10	

Syringe ID: 408

Standard: 1613B-IS#1-093A

Date & Initials: 10-Sept-21 AM

Correct Syringe Obtained: (Chemist's Initials) AM

Correct Standard Obtained: (Chemist's Initials) AM

Correct Technique Followed: (Chemist's Initials) AM

Batch ID:	WG3603564

Procedure:

This batchsheet is a guideline only. Please see test procedure for complete set of instructions.
Extraction:
- Mark the liquid level on the sample bottle. **Sample Size = 1L**
- Spike Extraction Standard in to ~1ml of Acetone, then add to the sample bottle with 2 acetone rinses.
- Add 100mL DCM to sample bottle, then add to sep funnel, shake for 2mins, collect DCM in flask
- Repeat two more times, combine with first extraction. Elute 50mL DCM through allihn filter
- Fill the original sample bottle up to the mark with tap water, then measure and record the volume using a grad cylinder.
- Roto-vap down to ~2ml
- Transfer to a c-tube with 3x2ml Hexane rinses.
- Reduce to 1mL and spike cleanup standards.
- Perform Acid Silica column
- Elute to 50ml with Hexane.

Reduce to 2mL and Split **1/2 DX** **1/2 PCB/PBDE**

-Perform Copper treatment only for DX portion
PCB/PBDE
- Reduce to 50uL, bulk up with 1mL of Hexane
- Perform Alumina Column:
• Pre-elute the Alumina Column with 7ml Hexane
• Place F1 c-tube under the column, then load the sample with 3x 1ml Hexane Rinses
• F1 1mL of Hexane
• Place F2 c-tube under the column. Ensure ctube is accurately marked for split
• F2 (DX/PCB/PBDE) **25ml** 1:1 DCM:Hexane
- Blow down to ~500ul
PCB/PBDE:
- Vortex **very** well.
- Transfer every last drop to a micro-vial (no rinses).
- Blow down **VERY GENTLY** to the mark. (Micro-vial should contain **30ul Toluene**, and the level should be marked with a **fine tipped black marker**.)
- Spike PCB and PBDE Injection Standards. Cap and Vortex **FV = 40ul**

DX:

- Carbon Column: - 4cm of well-packed chroma-carb.
  - Pre-elute Carbon with 5ml Hexane
  - Transfer with 3x1ml Hexane
  - F1 = **10ml** 1:1 DCM:Hexane (Archive)
  - After dripping has stopped Invert Column.
  - F2 = 14ml Toluene (DX)

- After the column has stopped dripping reduce the **F2** portion down to ~1/2ml.

- Vortex well, then transfer to a micro-vial without rinses.
- Blow the micro-vial down to just-dry.
- Spike with Injection Standard, Cap the micro-vial, and Vortex. **FV=10ul**

Approval of Deviation from Standard Method

(Batch Writer): _____

☐ Procedure does deviate from Standard Method. **Approved (Supervisor/Manager):** _____

Comments:

- Label and save all columns.

Reagent Lot Numbers:

Reagent	Lot#	Comment
Acetone	106330	
Hexane	106342	
DCM	106349	
Toluene	106301	
Nonane	ORG-WAKONON- 061	
1:1 DCM:HEX	ORG-DH2- 713	
Sodium Sulphate	ORG-SSU- 2713	
Acid Silica	ORG-ASI- 10270, 10274, 10280	
Neutral Silica	ORG-NSI- 2658	
Alumina	ORG-ALU- 515	
Chromacarb	ORG-CC- 312	

Re-column/Re-work Requisition Form

Workgroup	WG3603564	
Samples	Rework 1: combine the extract with the alumina F1, submit for analysis	Rework 2:
WG3603564-1		
WG3603564-2	x	
WG3603564-3		
L2625428-1		

	Initials	Date
Column:	—	—
Microvial:	ACB	16-Sept-21
Spiking	—	—

Initials	Standards Used:
—	—

Reagent Lot Numbers:

Reagent	Lot#	Manufacturer
Copper	—	
Hexane	—	
DCM	—	
Toluene	—	
1:1 DCM:HEX	—	
Sodium Sulphate	—	
Acid Silica	—	
Neutral Silica	—	
Florisil	—	
Alumina	—	
Nitrogen	—	
Chromacarb	—	

	Initials	Date	Analysis
Re-Work Sent to Prep:	EG	15-Sep-21	PBDE

~~alumina F1 (W2) was found dry, built up with hexane and vortexed immediately and proceeded. ACB 16 Sept-21~~

ignore comment, was looking at wrong sample initially ACB 16-Sept-21

If all samples from a batch are being sent for remedial re-work or procedural re-work, be sure to include QC samples. If selected samples are being sent for remedial re-work, create a procedural blank which will receive the prescribed re-work.

ALS Life Sciences

Sample Calculation Report

Approved: *K.BERG* --e-signature-- 14-Oct-2021

CS3 RRF Check

$$RRF = \frac{\text{Response of 2,3,7,8-TCDD}}{\text{Response of 13C12-2,3,7,8-TCDD}} \times \frac{\text{Concentration of 13C12-2,3,7,8-TCDD}}{\text{Concentration of TCDD}}$$

						Calculated Value	Value from TargetLynx
RRF	=	**146278.90** / **1301341.60**	x	**100** / **10**	=	**1.12**	**1.12**

Calculation of OCDD amount in L2625428-1

$$pg/L = \frac{\text{Response of OCDD}}{\text{Response of 13C12-OCDD}} \times \frac{\text{pg of 13C12-OCDD spiked}}{\text{Mean RRF} * \text{Sample Size}}$$

pg/L	=	**2086.4** / **367885.1**	x	**8000** / **1.07** * **1.10**	=	**38.562**	**38.559**	

Calculation of 13C12-2,3,7,8-TCDD Recovery in L2625428-1

$$\%\ Recovery = \frac{\text{Response of 13C12-2,3,7,8-TCDD}}{\text{Response of 13C12-1,2,3,4-TCDD}} \times \frac{\text{pg of 13C12-1,2,3,4-TCDD spiked} * 100}{\text{Mean RRF} * \text{Amount Spiked per split}}$$

% Recovery	=	**1939682.8** / **1332181.9**	x	**1000** * **100** / **1.18** * **2000**	=	**62**	**62**	**%**

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SECTION 7: SHIPPING/RECEIVING DOCUMENTS

Including:

- Airbills
- Chain-of-Custody Records
- Sample Log-in Sheet(s) - where applicable
- Others as listed below:

ALS Environmental Chain of Custody

1317 South 13th Avenue • Kelso, WA 98626 • 1-360-577-7222 • FAX 1-360-636-1068

ALS Contact: Sydney A. Wolf

Project Number: K2109142
Project Manager: Sydney A. Wolf
QAP: LAB QAP

Lab Code	Sample ID	# of Cont.	Matrix	Sample Date	Sample Time	Lab ID	Cl Biphen Cong 1668C	Dioxins Furans 1613B	Misc Out 1 None	Misc Out 2 None
K2109142-001	Final Effluent	3	Water	8/4/21		Burlington ALS	X	X		X
K2109142-002	Incin. Feed	1	Soil	8/4/21		Burlington ALS	X	X	X	

L2625428-COFC

Test Comments

Dioxins Furans - 1613B	K2109142-001,2	Burlington
Cl Biphen Cong - 1668C	K2109142-002	Burlington
Misc Out 1 - None	K2109142-002	PBDEs Burlington
Misc Out 2 - None	K2109142-001	PBDEs Burlington

Special Instructions/Comments

Please provide the electronic (PDF and EDD) report to the following e-mail address: ALKLS.Data@alsglobal.com.

H - Test is On Hold P - Test is Authorized for Prep Only

Turnaround Requirements

____ **RUSH** (Surcharges Apply)

PLEASE CIRCLE WORK DAYS

1 2 3 4 5

X **STANDARD**

Requested FAX Date: _____

Requested Report Date: 09/08/21

Report Requirements

____ I. Results Only

____ II. Results + QC Summaries

____ III. Results + QC and Calibration Summaries

X IV. Data Validation Report with Raw Data

PQL/MDL/J Y

EDD N

Invoice Information

PO# 51K2109142

Bill to

Relinquished By: ALS Canada Ltd. 8/9/21 Received By: Anna Boston L2625428-(1)DX DPKG 214118

Airbill Number:

Page 149 of 2676 15:40 3.8°C

Sample Receiving Log

Date/Time Received	Client ID	Number/Description of Containers	Temp. on Receipt*	Condition of Samples, Courier & Tracking Information	Receiver's Initials	Date/Time Login Completed	Submission ID L2625333	Sample ID Range -1-17
10-Aug-24 15:40	ALS KELSO	44 x jars of sediment 28 x 1L amber bottles	3.8°C	Good FedEx 9340 2499 2668	NJ	11-Aug-2024 16:10	L2625409 L2625400 L2625332 L2625417 L2625428	-1-18 -1-13 -1-11 -1-5 -1.2

[redacted]

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SVOC DATA PACKAGE

Client Project Information

Project ID: K2109142
Project Description:
Contact: Sydney Wolf

ALSE Project Information

Project ID: ALS880
Contact: Claire Kocharakkal
Submission ID(s): L2625428-2

Final Package Review by: _____

Date Reviewed: 17-Nov-21

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SVOC DATA PACKAGE

SECTION 1: PROJECT NARRATIVE

ALSE Project Information

Project ID: ALS880
Contact: Claire Kocharakkal
Submission ID(s): L2625428-2

Client Project Information

Project ID: K2109142
Project Description:
Contact: Sydney Wolf

Analytical Method: PCDD/F by EPA 1613B via Isotope Dilution

ALS Sample ID	Client Sample Descriptions	Matrix	Date Sampled	Date Received	Date Extracted	Date Analyzed
L2625428-2	INCIN. FEED	Soil	04-Aug-21	10-Aug-21	03-Sep-21	11-Oct-21
WG3603574-1	Method Blank	QC	n/a	n/a	03-Sep-21	10-Oct-21
WG3603574-2	Laboratory Control Sample	QC	n/a	n/a	03-Sep-21	10-Oct-21

Comments and Notes:
a) Sample Integrity:

The sample was received in good condition at 3.8 degrees C.

b) Instrumental Analysis:

All results have been reported on a dry weight basis.

For the post-run continuing calibration verification (CCV), the recovery of the labelled standard 13C12-1,2,3,4,7,8-HxCDD was below the method control limit. As a result, the reported recoveries of this standard may be biased low. Reported target analyte data are not expected to be biased.

I certify that this data package is in compliance with the terms and condition of the contract , both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this data package (hardcopy and/or electronic version) has been authorized by the Laboratory Manager or his designee, as verified by the following signature.

Steve Kennedy, Technical Supervisor

17-Nov-21
Date

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SVOC DATA PACKAGE

SECTION 2: DATA SUMMARY REPORT

1435 Norjohn Court, Unit 1, Burlington, ON, Canada L7L 0E6
Phone: 905-331-3111, FAX: 905-331-4567

Certificate of Analysis

ALS Project Contact:	Claire Kocharakkal	**Client Name:**	ALS Environmental - Kelso
ALS Project ID:	ALS880	**Client Address:**	1317 South 13th Avenue
ALS WO#:	L2625428-2		Kelso, WA
Date of Report	18-Nov-21		98626
Date of Sample Receipt	10-Aug-21	**Client Contact:**	Sydney Wolf
		Client Project ID:	K2109142

COMMENTS: **PCDD/F by EPA 1613B via Isotope Dilution**

All results have been reported on a dry weight basis.

Certified by:

Steve Kennedy, C.Chem.
Technical Supervisor

Results in this certificate relate only to the samples as submitted to the laboratory.
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Sample Analysis Summary Report

Sample Name	INCIN. FEED
ALS Sample ID	L2625428-2
Sample Size	4.27
Sample size units	g
Percent Moisture	79.1%
Sample Matrix	Soil
Sampling Date	4-Aug-21
Extraction Date	3-Sep-21
Target Analytes	**pg/g**
2,3,7,8-TCDD	<0.15
1,2,3,7,8-PeCDD	1.05
1,2,3,4,7,8-HxCDD	<1.3
1,2,3,6,7,8-HxCDD	7.52
1,2,3,7,8,9-HxCDD	4.45
1,2,3,4,6,7,8-HpCDD	189
OCDD	1760
2,3,7,8-TCDF	7.62
1,2,3,7,8-PeCDF	<0.94
2,3,4,7,8-PeCDF	<1.6
1,2,3,4,7,8-HxCDF	1.92
1,2,3,6,7,8-HxCDF	<0.83
2,3,4,6,7,8-HxCDF	1.85
1,2,3,7,8,9-HxCDF	<1.1
1,2,3,4,6,7,8-HpCDF	28.4
1,2,3,4,7,8,9-HpCDF	1.40
OCDF	74.2
Extraction Standards	**% Rec**
13C12-2,3,7,8-TCDD	57
13C12-1,2,3,7,8-PeCDD	49
13C12-1,2,3,4,7,8-HxCDD	50
13C12-1,2,3,6,7,8-HxCDD	63
13C12-1,2,3,4,6,7,8-HpCDD	47
13C12-OCDD	44
13C12-2,3,7,8-TCDF	52
13C12-1,2,3,7,8-PeCDF	50
13C12-2,3,4,7,8-PeCDF	51
13C12-1,2,3,4,7,8-HxCDF	54
13C12-1,2,3,6,7,8-HxCDF	64
13C12-2,3,4,6,7,8-HxCDF	61
13C12-1,2,3,7,8,9-HxCDF	54
13C12-1,2,3,4,6,7,8-HpCDF	53
13C12-1,2,3,4,7,8,9-HpCDF	45
Cleanup Standard	
37Cl4-2,3,7,8-TCDD (Cleanup)	57
Homologue Group Totals	**pg/g**
Total-TCDD	2.48
Total-PeCDD	6.13
Total-HxCDD	49.4
Total-HpCDD	370
Total-TCDF	20.8
Total-PeCDF	19.1
Total-HxCDF	45.5
Total-HpCDF	77.3
Toxic Equivalency - (WHO 2005)	
Lower Bound PCDD/F TEQ (WHO 2005)	6.12
Mid Point PCDD/F TEQ (WHO 2005)	7.03
Upper Bound PCDD/F TEQ (WHO 2005)	7.11

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Quality Control Summary Report

Sample Name	Method Blank	Laboratory Control Sample
ALS Sample ID	WG3603574-1	WG3603574-2
Sample Size	4.27	1
Sample size units	g	n/a
Percent Moisture	n/a	n/a
Sample Matrix	QC	QC
Sampling Date	n/a	n/a
Extraction Date	3-Sep-21	3-Sep-21
Target Analytes	**pg/g**	**% Rec**
2,3,7,8-TCDD	<0.13	78
1,2,3,7,8-PeCDD	<0.16	106
1,2,3,4,7,8-HxCDD	<0.17	101
1,2,3,6,7,8-HxCDD	<0.16	91
1,2,3,7,8,9-HxCDD	<0.17	112
1,2,3,4,6,7,8-HpCDD	<0.35	92
OCDD	<0.93	90
2,3,7,8-TCDF	<0.11	99
1,2,3,7,8-PeCDF	<0.12	104
2,3,4,7,8-PeCDF	<0.10	96
1,2,3,4,7,8-HxCDF	<0.12	101
1,2,3,6,7,8-HxCDF	<0.12	97
2,3,4,6,7,8-HxCDF	<0.13	97
1,2,3,7,8,9-HxCDF	<0.23	102
1,2,3,4,6,7,8-HpCDF	<0.25	102
1,2,3,4,7,8,9-HpCDF	<0.43	98
OCDF	<0.54	92
Extraction Standards	**% Rec**	**% Rec**
13C12-2,3,7,8-TCDD	51	62
13C12-1,2,3,7,8-PeCDD	42	58
13C12-1,2,3,4,7,8-HxCDD	44	54
13C12-1,2,3,6,7,8-HxCDD	62	75
13C12-1,2,3,4,6,7,8-HpCDD	43	61
13C12-OCDD	43	66
13C12-2,3,7,8-TCDF	47	59
13C12-1,2,3,7,8-PeCDF	46	62
13C12-2,3,4,7,8-PeCDF	43	57
13C12-1,2,3,4,7,8-HxCDF	50	59
13C12-1,2,3,6,7,8-HxCDF	65	75
13C12-2,3,4,6,7,8-HxCDF	56	66
13C12-1,2,3,7,8,9-HxCDF	49	61
13C12-1,2,3,4,6,7,8-HpCDF	50	64
13C12-1,2,3,4,7,8,9-HpCDF	43	60
Cleanup Standard		
37Cl4-2,3,7,8-TCDD (Cleanup)	50	67
Homologue Group Totals	**pg/g**	
Total-TCDD	<0.13	
Total-PeCDD	<0.16	
Total-HxCDD	<0.17	
Total-HpCDD	<0.35	
Total-TCDF	<0.11	
Total-PeCDF	<0.12	
Total-HxCDF	<0.23	
Total-HpCDF	<0.43	
Toxic Equivalency - (WHO 2005)		
Lower Bound PCDD/F TEQ (WHO 2005)	0.00	
Mid Point PCDD/F TEQ (WHO 2005)	0.228	
Upper Bound PCDD/F TEQ (WHO 2005)	0.455	

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Continuing Calibration Summary Report

Sample Name	CVS	CCV	CCV
ALS Sample ID	H7-21-RS1-0199	H7-21-CCV-604	H7-21-CCV-605
Sample Size	1	1	1
Sample size units	n/a	n/a	n/a
Percent Moisture	n/a	n/a	n/a
Sample Matrix	QC	QC	QC
Sampling Date	n/a	n/a	n/a
Extraction Date	n/a	n/a	n/a
Target Analytes	**% Rec**	**% Rec**	**% Rec**
2,3,7,8-TCDD	95	89	87
1,2,3,7,8-PeCDD	109	103	102
1,2,3,4,7,8-HxCDD	100	89	89
1,2,3,6,7,8-HxCDD	108	111	104
1,2,3,7,8,9-HxCDD	110	112	115
1,2,3,4,6,7,8-HpCDD	104	103	104
OCDD	104	93	96
2,3,7,8-TCDF	104	105	107
1,2,3,7,8-PeCDF	103	105	104
2,3,4,7,8-PeCDF	98	103	102
1,2,3,4,7,8-HxCDF	101	103	103
1,2,3,6,7,8-HxCDF	101	100	99
2,3,4,6,7,8-HxCDF	99	100	100
1,2,3,7,8,9-HxCDF	111	101	98
1,2,3,4,6,7,8-HpCDF	100	97	101
1,2,3,4,7,8,9-HpCDF	102	100	96
OCDF	114	99	97
Extraction Standards	**% Rec**	**% Rec**	**% Rec**
13C12-2,3,7,8-TCDD	97	96	97
13C12-1,2,3,7,8-PeCDD	94	88	89
13C12-1,2,3,4,7,8-HxCDD	95	86	77
13C12-1,2,3,6,7,8-HxCDD	101	98	100
13C12-1,2,3,4,6,7,8-HpCDD	105	94	93
13C12-OCDD	95	100	106
13C12-2,3,7,8-TCDF	99	87	87
13C12-1,2,3,7,8-PeCDF	97	87	87
13C12-2,3,4,7,8-PeCDF	94	92	91
13C12-1,2,3,4,7,8-HxCDF	105	87	81
13C12-1,2,3,6,7,8-HxCDF	103	96	99
13C12-2,3,4,6,7,8-HxCDF	103	92	91
13C12-1,2,3,7,8,9-HxCDF	100	89	89
13C12-1,2,3,4,6,7,8-HpCDF	105	103	100
13C12-1,2,3,4,7,8,9-HpCDF	106	95	96
Cleanup Standard			
37Cl4-2,3,7,8-TCDD (Cleanup)	114	92	94

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Sample Analysis Report

Sample Name	**INCIN. FEED**	Sampling Date	4-Aug-21		
ALS Sample ID	L2625428-2	Extraction Date	3-Sep-21		Approved:
Analysis Method	EPA 1613B	Sample Size	4.27	g	*K.BERG*
Analysis Type	Sample	Percent Moisture	79.1%		--e-signature--
Sample Matrix	Soil	Split Ratio	2		15-Oct-2021

Run Information	**Run 1**
Filename	7-211010A28
Run Date	11-Oct-21 03:58
Final Volume	10 uL
Dilution Factor	1
Analysis Units	pg/g
Instrument - Column	HRMS 7 DB5MSUS1331822H

Target Analytes	**TEF (WHO 2005)**	**Ret. Time**	**Conc. pg/g**	**EDL pg/g**	**Flags**	**EMPC pg/g**	**LQL**
2,3,7,8-TCDD	1	NotFnd	<0.15	0.15	U		2.3
1,2,3,7,8-PeCDD	1	32.38	1.05	0.24	M,J		12
1,2,3,4,7,8-HxCDD	0.1	34.37	<1.3	0.39	M,J,R	1.3	12
1,2,3,6,7,8-HxCDD	0.1	34.42	7.52	0.36	M,J		12
1,2,3,7,8,9-HxCDD	0.1	34.55	4.45	0.38	M,J		12
1,2,3,4,6,7,8-HpCDD	0.01	36.04	189	1.3			12
OCDD	0.0003	37.57	1760	2.5			23
2,3,7,8-TCDF	0.1	27.70	7.62	0.29	M		2.3
1,2,3,7,8-PeCDF	0.03	31.49	<0.94	0.29	J,R	0.94	12
2,3,4,7,8-PeCDF	0.3	32.18	<1.6	0.25	M,J,R	1.6	12
1,2,3,4,7,8-HxCDF	0.1	33.90	1.92	0.34	J		12
1,2,3,6,7,8-HxCDF	0.1	33.96	<0.83	0.32	J,R	0.83	12
2,3,4,6,7,8-HxCDF	0.1	34.28	1.85	0.34	J		12
1,2,3,7,8,9-HxCDF	0.1	34.73	<1.1	0.54	J,R	1.1	12
1,2,3,4,6,7,8-HpCDF	0.01	35.48	28.4	0.44			12
1,2,3,4,7,8,9-HpCDF	0.01	36.30	1.40	0.77	J		12
OCDF	0.0003	37.66	74.2	0.64			23

Extraction Standards	**pg**		**% Rec**	**Limits**
13C12-2,3,7,8-TCDD	4000	28.57	57	25-164
13C12-1,2,3,7,8-PeCDD	4000	32.37	49	25-181
13C12-1,2,3,4,7,8-HxCDD	4000	34.37	50	32-141
13C12-1,2,3,6,7,8-HxCDD	4000	34.41	63	28-130
13C12-1,2,3,4,6,7,8-HpCDD	4000	36.04	47	23-140
13C12-OCDD	8000	37.56	44	17-157
13C12-2,3,7,8-TCDF	4000	27.67	52	24-169
13C12-1,2,3,7,8-PeCDF	4000	31.48	50	24-185
13C12-2,3,4,7,8-PeCDF	4000	32.16	51	21-178
13C12-1,2,3,4,7,8-HxCDF	4000	33.89	54	26-152
13C12-1,2,3,6,7,8-HxCDF	4000	33.95	64	26-123
13C12-2,3,4,6,7,8-HxCDF	4000	34.28	61	28-136
13C12-1,2,3,7,8,9-HxCDF	4000	34.70	54	29-147
13C12-1,2,3,4,6,7,8-HpCDF	4000	35.48	53	28-143
13C12-1,2,3,4,7,8,9-HpCDF	4000	36.30	45	26-138

Cleanup Standard	**pg**			
37Cl4-2,3,7,8-TCDD (Cleanup)	40	28.60	57	35-197

Homologue Group Totals	**# peaks**	**Conc. pg/g**	**EDL pg/g**	**LQL**
Total-TCDD	2	2.48	0.15	2.3
Total-PeCDD	5	6.13	0.24	12
Total-HxCDD	6	49.4	0.39	12
Total-HpCDD	2	370	1.3	12
Total-TCDF	9	20.8	0.29	2.3
Total-PeCDF	5	19.1	0.29	12
Total-HxCDF	6	45.5	0.54	12
Total-HpCDF	3	77.3	0.77	12

Toxic Equivalency - (WHO 2005)	**pg/g**
Lower Bound PCDD/F TEQ (WHO 2005)	6.12
Mid Point PCDD/F TEQ (WHO 2005)	7.03
Upper Bound PCDD/F TEQ (WHO 2005)	7.11

EDL	Indicates the Estimated Detection Limit, based on the measured background noise for this target in this sample.
TEF	Indicates the Toxic Equivalency Factor
TEQ	Indicates the Toxic Equivalency
M	Indicates that a peak has been manually integrated.
U	Indicates that this compound was not detected above the EDL.
J	Indicates that a target analyte was detected below the calibrated range.
R	Indicates that the ion abundance ratio for this compound did not meet the acceptance criterion.
LQL	Lower Quantification Limit, based on the lowest calibration level corrected for sample size, splits and dilutions.
EMPC	Estimated Maximum Possible Concentration – elevated detection limit due to interference or positive id criterion failure

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SVOC DATA PACKAGE

SECTION 3: METHOD SUMMARY

PCDD/F METHOD SUMMARY
Methods 23/0023A/1613B/8290/TO-9A

Introduction:

This summary is to provide ALSE Burlington PCDD/F method details in order to provide persons reviewing or validating this data package sufficient information to re-construct the sample calculation, data verification and review. It incorporates the analysis of PCDD/F via the following reference methods:

US EPA Office of Water, Method 1613B
US EPA Office of Solid Waste, SW846 Methods 8290A and 0023/8290A
US EPA Office of Research & Development Method TO-9A.
US EPA Office of Air Quality Planning & Standards Method 23.

Any deviations to what is listed herein would be listed in the project narrative.

To avoid the confusion and conflicting nomenclature within the methods, we have defined the labeled standards in terms relating to the time of addition to the sample or extract. Therefore;

The Field or Sampling Standards are added prior to field sampling
The Extraction Standards are added prior to extraction
The Clean-up Standards are added prior to extract clean-up
The Injection Standards are added prior to extract injection.

Calibration Standard Levels:

Six levels of standard are available for calibration as listed in Table 1. The low point (the CS0) is below method requirements and therefore is optional.

Table 1: Calibration Standards

		CS0	CS1	CS2	CS3	CS4	CS5
Natives	2,3,7,8-TCDD	0.1	0.5	2	10	40	200
	2,3,7,8-TCDF	0.1	0.5	2	10	40	200
	1,2,3,7,8-PeCDD	0.5	2.5	10	50	200	1000
	1,2,3,7,8-PeCDF	0.5	2.5	10	50	200	1000
	2,3,4,7,8-PeCDF	0.5	2.5	10	50	200	1000
	1,2,3,4,7,8-HxCDD	0.5	2.5	10	50	200	1000
	1,2,3,6,7,8-HxCDD	0.5	2.5	10	50	200	1000
	1,2,3,7,8,9-HxCDD	0.5	2.5	10	50	200	1000
	1,2,3,4,7,8-HxCDF	0.5	2.5	10	50	200	1000
	1,2,3,6,7,8-HxCDF	0.5	2.5	10	50	200	1000
	1,2,3,7,8,9-HxCDF	0.5	2.5	10	50	200	1000
	2,3,4,6,7,8-HxCDF	0.5	2.5	10	50	200	1000
	1,2,3,4,6,7,8-HpCDD	0.5	2.5	10	50	200	1000
	1,2,3,4,6,7,8-HpCDF	0.5	2.5	10	50	200	1000
	1,2,3,4,7,8,9-HpCDF	0.5	2.5	10	50	200	1000
	OCDD	1	5	20	100	400	2000
	OCDF	1	5	20	100	400	2000
Labeled	2,3,7,8-TCDD-$^{13}C_{12}$	100	100	100	100	100	100
	2,3,7,8-TCDF-$^{13}C_{12}$	100	100	100	100	100	100
	1,2,3,7,8-PeCDD-$^{13}C_{12}$	100	100	100	100	100	100
	1,2,3,7,8-PeCDF-$^{13}C_{12}$	100	100	100	100	100	100
	2,3,4,7,8-PeCDF-$^{13}C_{12}$	100	100	100	100	100	100
	1,2,3,4,7,8-HxCDD-$^{13}C_{12}$	100	100	100	100	100	100
	1,2,3,6,7,8-HxCDD-$^{13}C_{12}$	100	100	100	100	100	100
	1,2,3,4,7,8-HxCDF-$^{13}C_{12}$	100	100	100	100	100	100
	1,2,3,6,7,8-HxCDF-$^{13}C_{12}$	100	100	100	100	100	100
	1,2,3,7,8,9-HxCDF-$^{13}C_{12}$	100	100	100	100	100	100
	2,3,4,6,7,8-HxCDF-$^{13}C_{12}$	100	100	100	100	100	100
	1,2,3,4,6,7,8-HpCDD-$^{13}C_{12}$	100	100	100	100	100	100
	1,2,3,4,6,7,8-HpCDF-$^{13}C_{12}$	100	100	100	100	100	100
	1,2,3,4,7,8,9-HpCDF-$^{13}C_{12}$	100	100	100	100	100	100
	OCDD-$^{13}C_{12}$	200	200	200	200	200	200
	2,3,7,8-TCDD-$^{37}Cl_4$	0.1	0.5	2	10	40	200
Injection	1,2,3,4-TCDD-$^{13}C_{12}$	100	100	100	100	100	100
	1,2,3,7,8,9-HxCDD-$^{13}C_{12}$	100	100	100	100	100	100

Calibration Control Limits

The initial and continuing calibration control limits for all methods are presented in Table 2 below. For the initial calibration CS1 and for each calibration verification CS3, the signal to noise ratio for each quantification ion for labelled and non-labelled analytes must be greater than or equal to 10:1

Table 2: Calibration Control Limits

	1613B		M23 & TO-9A		8290A	
	Initial Cal.	Cal. Ver.	Initial Cal.	Cal. Ver.	Initial Cal.	Cal. Ver.
	%RSD	ng/mL	%RSD	% Diff	%RSD	% Diff
Natives						
2,3,7,8-TCDD	20	7.8-12.9	25	25	20	20*
2,3,7,8-TCDF	20	8.4-12.0	25	25	20	20*
1,2,3,7,8-PeCDD	20	39-65	25	25	20	20*
1,2,3,7,8-PeCDF	20	41-60	25	25	20	20*
2,3,4,7,8-PeCDF	20	41-61	25	25	20	20*
1,2,3,4,7,8-HxCDD	20	39-64	25	25	20	20*
1,2,3,6,7,8-HxCDD	20	39-64	25	25	20	20*
1,2,3,7,8,9-HxCDD	35	41-61	25	25	20	20*
1,2,3,4,7,8-HxCDF	20	45-56	25	25	20	20*
1,2,3,6,7,8-HxCDF	20	44-57	25	25	20	20*
1,2,3,7,8,9-HxCDF	20	45-56	25	25	20	20*
2,3,4,6,7,8-HxCDF	20	44-57	25	25	20	20*
1,2,3,4,6,7,8-HpCDD	20	43-58	25	25	20	20*
1,2,3,4,6,7,8-HpCDF	20	45-55	25	25	20	20*
1,2,3,4,7,8,9-HpCDF	20	43-58	25	25	20	20*
OCDD	20	79-126	25	25	20	20*
OCDF	35	63-159	30	30	20	20*
Labels						
2,3,7,8-TCDD-$^{13}C_{12}$	35	82-121	25	25	30	30**
2,3,7,8-TCDF-$^{13}C_{12}$	35	71-140	30	30	30	30**
1,2,3,7,8-PeCDD-$^{13}C_{12}$	35	62-160	30	30	30	30**
1,2,3,7,8-PeCDF-$^{13}C_{12}$	35	76-130	30	30	30	30**
2,3,4,7,8-PeCDF-$^{13}C_{12}$	35	77-130	25	25	30	30**
1,2,3,4,7,8-HxCDD-$^{13}C_{12}$	35	85-117	25	25	30	30**
1,2,3,6,7,8-HxCDD-$^{13}C_{12}$	35	85-118	25	25	30	30**
1,2,3,4,7,8-HxCDF-$^{13}C_{12}$	35	76-131	25	25	30	30**
1,2,3,6,7,8-HxCDF-$^{13}C_{12}$	35	70-143	30	30	30	30**
1,2,3,7,8,9-HxCDF-$^{13}C_{12}$	35	74-135	-	-	-	-
2,3,4,6,7,8-HxCDF-$^{13}C_{12}$	35	73-137	30	30	30	30**
1,2,3,4,6,7,8-HpCDD-$^{13}C_{12}$	35	72-138	30	30	30	30**
1,2,3,4,6,7,8-HpCDF-$^{13}C_{12}$	35	78-129	30	30	30	30**
1,2,3,4,7,8,9-HpCDF-$^{13}C_{12}$	35	77-129	25	25	30	30**
OCDD-$^{13}C_{12}$	35	96-415	30	30	30	30**
2,3,7,8-TCDD-$^{37}Cl_4$	35	7.9-12.7	25	25	30	30**

* 25% is allowed for a post-run verification but when the value is above 20%, then the analyte quantification must be as per 8290A Section 8.3.2.4 and corrective action is required before more samples can be analyzed.
**35% is allowed for a post-run verification but when the value is above 30%, then the analyte quantification must be as per 8290A Section 8.3.2.4 and corrective action is required before more samples can be analyzed.

LCS Criteria:

The laboratory control sample (LCS) or the On-Going Precision and Accuracy (OPR) recovery criteria are listed in Table 3

Table 3: Acceptance Criteria for IPR and OPR[a]

	Test Conc.	IPR		OPR
		s[b]	X[c]	
	ng/L	ng/L	ng/L	ng/L
Natives				
2,3,7,8-TCDD	10	2.8	8.3-12.9	6.7-15.8
2,3,7,8-TCDF	10	2	8.7-13.7	7.5-15.8
1,2,3,7,8-PeCDD	50	7.5	38-66	35-71
1,2,3,7,8-PeCDF	50	7.5	43-62	40-67
2,3,4,7,8-PeCDF	50	8.6	36-75	34-80
1,2,3,4,7,8-HxCDD	50	9.4	39-76	35-82
1,2,3,6,7,8-HxCDD	50	7.7	42-62	38-67
1,2,3,7,8,9-HxCDD	50	11.1	37-71	32-81
1,2,3,4,7,8-HxCDF	50	8.7	41-59	36-67
1,2,3,6,7,8-HxCDF	50	6.7	46-60	42-65
1,2,3,7,8,9-HxCDF	50	6.4	42-61	39-65
2,3,4,6,7,8-HxCDF	50	7.4	37-74	35-78
1,2,3,4,6,7,8-HpCDD	50	7.7	38-65	35-70
1,2,3,4,6,7,8-HpCDF	50	6.3	45-56	41-61
1,2,3,4,7,8,9-HpCDF	50	8.1	43-63	39-69
OCDD	100	19	89-127	78-144
OCDF	100	27	74-146	63-170
Labels				
2,3,7,8-TCDD-$^{13}C_{12}$	100	37	28-134	20-175
2,3,7,8-TCDF-$^{13}C_{12}$	100	35	31-113	22-152
1,2,3,7,8-PeCDD-$^{13}C_{12}$	100	39	27-184	21-227
1,2,3,7,8-PeCDF-$^{13}C_{12}$	100	34	27-156	21-192
2,3,4,7,8-PeCDF-$^{13}C_{12}$	100	38	16-297	13-328
1,2,3,4,7,8-HxCDD-$^{13}C_{12}$	100	41	29-147	21-193
1,2,3,6,7,8-HxCDD-$^{13}C_{12}$	100	38	34-122	25-163
1,2,3,4,7,8-HxCDF-$^{13}C_{12}$	100	43	27-152	19-202
1,2,3,6,7,8-HxCDF-$^{13}C_{12}$	100	35	30-122	21-159
1,2,3,7,8,9-HxCDF-$^{13}C_{12}$	100	40	24-157	17-205
2,3,4,6,7,8-HxCDF-$^{13}C_{12}$	100	37	29-136	22-176
1,2,3,4,6,7,8-HpCDD-$^{13}C_{12}$	100	35	34-129	26-166
1,2,3,4,6,7,8-HpCDF-$^{13}C_{12}$	100	41	32-110	21-158
1,2,3,4,7,8,9-HpCDF-$^{13}C_{12}$	100	40	28-141	20-186
OCDD-$^{13}C_{12}$	200	95	41-276	26-397
2,3,7,8-TCDD-$^{37}Cl_4$	10	3.6	3.9-15.4	3.1-19.1

[a] Assuming a final volume of 20uL

[b] s = standard deviation

[c] X = Average Concentration

Extraction/Clean-up & Sampling Standard Recovery Limts:

Table 4: Extraction, Clean-up, Injection & Sampling Standard Recovery Limits

	1613B or 8290A (non Stack)		M23 or 0023A/8290A or TO-9A	
	(% Rec.)	Ref.	(% Rec.)	Ref.
Extraction Standard				
2,3,7,8-TCDD-$^{13}C_{12}$	25-164	a	40-130	b
2,3,7,8-TCDF-$^{13}C_{12}$	24-169	a	40-130	b
1,2,3,7,8-PeCDD-$^{13}C_{12}$	25-181	a	40-130	b
1,2,3,7,8-PeCDF-$^{13}C_{12}$	24-185	a	40-130	b
2,3,4,7,8-PeCDF-$^{13}C_{12}$	21-178	a	-	
1,2,3,4,7,8-HxCDD-$^{13}C_{12}$	32-141	a	-	
1,2,3,6,7,8-HxCDD-$^{13}C_{12}$	28-130	a	40-130	b
1,2,3,4,7,8-HxCDF-$^{13}C_{12}$	26-152	a	-	
1,2,3,6,7,8-HxCDF-$^{13}C_{12}$	26-123	a	40-130	b
1,2,3,7,8,9-HxCDF-$^{13}C_{12}$	29-147	a	-	
2,3,4,6,7,8-HxCDF-$^{13}C_{12}$	28-136	a	40-130	c,d
1,2,3,4,6,7,8-HpCDD-$^{13}C_{12}$	23-140	a	25-130	b
1,2,3,4,6,7,8-HpCDF-$^{13}C_{12}$	28-143	a	25-130	b
1,2,3,4,7,8,9-HpCDF-$^{13}C_{12}$	26-138	a	-	
OCDD-$^{13}C_{12}$	17-157	a	25-130	b
Clean-up Standard				
2,3,7,8-TCDD-$^{37}Cl_4$	35-197	a	-	
1,2,3,7,8,9-HxCDF-$^{13}C_{12}$	-		40-130	b
Injection Standard				
1,2,3,4-TCDD-$^{13}C_{12}$	30-300	d	30-300	d
1,2,3,7,8,9-HxCDD-$^{13}C_{12}$	30-300	d	30-300	d
Sampling Standard				
2,3,7,8-TCDD-$^{37}Cl_4$	-		70-130	b
2,3,4,7,8-PeCDF-$^{13}C_{12}$	-		70-130	b
1,2,3,4,7,8-HxCDD-$^{13}C_{12}$	-		70-130	b
1,2,3,4,7,8-HxCDF-$^{13}C_{12}$	-		70-130	b
1,2,3,4,7,8,9-HpCDF-$^{13}C_{12}$	-		70-130	b

References & Notes

[a] from OW method 1613B

[b] from OAQPS method 23

[c] this extraction standard is not required in methods 23 and 0023A/8290A

[d] ALS In-house criteria

Reporting Limits:

Unless indicated in the otherwise, the PCDD/F data is reported down to 2.5:1 signal to noise for each isomer grouping for each extract injection. This is consistent to SW846 8290 defined protocols (i.e. EDL or Estimated Detection Limit) and is commonly applied throughout the industry to all the HRMS PCDD/F methods applicable to this method summary.

Method Blank:

The method blank levels must be below the response to the low calibration standard, CS0 or CS1, whichever low calibration point is being applied to the project.

MS/MSD:

The % relative difference between the MS and MSD spike recoveries should be less than or equal to 20%.

Instrument/Run Performance Criteria:

1. Elution windows must be defined by a 'Window Performance Mix' at the beginning of each 12-hour run sequence
2. GC performance criteria of 25% maximum valley between 2,3,7,8-TCDD and it's neared eluting isomers (DB5) or 2,3,7,8-TCDF and it's nearest eluting isomers (DB225).
3. At the beginning of and just following the end of each 12 hour run sequence, the instrument must be checked to demonstrate a resolution of 10,000 for each quantification window.
4. For method 1613B, the relative retention times (RRT) of the compounds in the daily CS3 calibration verification must fall into the ranges presented in Table 4.
5. For all calibrations, QC samples and field samples, the absolute retention time (RT) for 1,2,3,4-TCDD-13C12 must be >25.0 min on a DB5 column and >15.0 min on a DB225 column.
6. The RT in the daily CS3 verification standards must be within 15 seconds of the CS3 in the initial calibration run.
7. The maximum time between scans within a descriptor is 1 second.
8. Lock mass deviations to the average response must be less than or equal 20%.

Laboratory Duplicates:

The % relative difference between duplicates should be less than or equal to 25% but only where the response is greater than the low calibration standard.

Analyte Identification Criteria:

1. Ion ratio must be within 15% of theoretical or within 10% of the most recent CS3.
2. The retention time (RT) of the peak maxima for each pair of quantification ions must be no more than 2 seconds (i.e. 2 scans) difference.
3. The retention time (RT) of the peak maxima of all 2,3,7,8- substituted native analytes must be within -1 to +3 seconds of the RT of corresponding $^{13}C_{12}$-labelled isomer of that injection run.
4. For those native analytes without a corresponding labelled isomer, the relative retention time (RRT) must be within 0.005 of the relative retention time observed in the daily CS3 run.
5. When there is a significant PCDPE interference observed, then a peak in the PCDF channel is not confirmed to be PCDF. [Significant PCDPE interference is identified when there is a PCDPE parent ion peak 10% or more of the response of a peak at the same RT (i.e. within 2 seconds) in the corresponding PCDF channel.]
6. For any peak to be identified as a positive PCDD/F response, that peak must be within the retention time windows defined by the daily analysis of Window Performance Mixture.

Table 4: Quantitation References and Method 1613B RT References and RRT

Analyte	Stack/Ambient Quantitation Reference	Method 1613B RT Reference Solids/ Waters Quantitation Reference	Method 1613B RRT
Compounds using 1,2,3,4-TCDD-$^{13}C_{12}$ as injection standard			
2,3,7,8-TCDF	2,3,7,8-TCDF-$^{13}C_{12}$	2,3,7,8-TCDF-$^{13}C_{12}$	0.999-1.003
2,3,7,8-TCDD	2,3,7,8-TCDD-$^{13}C_{12}$	2,3,7,8-TCDD-$^{13}C_{12}$	0.999-1.002
1,2,3,7,8-PeCDF	1,2,3,7,8-PeCDF-$^{13}C_{12}$	1,2,3,7,8-PeCDF-$^{13}C_{12}$	0.999-1.002
2,3,4,7,8-PeCDF	1,2,3,7,8-PeCDF-$^{13}C_{12}$	2,3,4,7,8-PeCDF-$^{13}C_{12}$	0.999-1.002
1,2,3,7,8-PeCDD	1,2,3,7,8-PeCDD-$^{13}C_{12}$	1,2,3,7,8-PeCDD-$^{13}C_{12}$	0.999-1.002
2,3,7,8-TCDF-$^{13}C_{12}$	1,2,3,4-TCDD-$^{13}C_{12}$	1,2,3,4-TCDD-$^{13}C_{12}$	0.923-1.103
2,3,7,8-TCDD-$^{13}C_{12}$	1,2,3,4-TCDD-$^{13}C_{12}$	1,2,3,4-TCDD-$^{13}C_{12}$	0.976-1.043
2,3,7,8-TCDD-$^{37}Cl_4$	2,3,7,8-TCDD-$^{13}C_{12}$	1,2,3,4-TCDD-$^{13}C_{12}$	0.989-1.052
1,2,3,7,8-PeCDF-$^{13}C_{12}$	1,2,3,4-TCDD-$^{13}C_{12}$	1,2,3,4-TCDD-$^{13}C_{12}$	1.000-1.425
2,3,4,7,8-PeCDF-$^{13}C_{12}$	1,2,3,7,8-PeCDF-$^{13}C_{12}$	1,2,3,4-TCDD-$^{13}C_{12}$	1.011-1.526
1,2,3,7,8-PeCDD-$^{13}C_{12}$	1,2,3,4-TCDD-$^{13}C_{12}$	1,2,3,4-TCDD-$^{13}C_{12}$	1.000-1.567
Compounds using 1,2,3,7,8,9-HxCDD-$^{13}C_{12}$ as injection standard			
1,2,3,4,7,8-HxCDF	1,2,3,6,7,8-HxCDF-$^{13}C_{12}$	1,2,3,4,7,8-HxCDF-$^{13}C_{12}$	0.999-1.001
1,2,3,6,7,8-HxCDF	1,2,3,6,7,8-HxCDF-$^{13}C_{12}$	1,2,3,6,7,8-HxCDF-$^{13}C_{12}$	0.997-1.005
1,2,3,7,8,9-HxCDF	1,2,3,6,7,8-HxCDF-$^{13}C_{12}$	1,2,3,7,8,9-HxCDF-$^{13}C_{12}$	0.999-1.001
2,3,4,6,7,8-HxCDF	2,3,4,6,7,8-HxCDF-$^{13}C_{12}$	2,3,4,6,7,8-HxCDF-$^{13}C_{12}$	0.999-1.001
1,2,3,4,7,8-HxCDD	1,2,3,6,7,8-HxCDD-$^{13}C_{12}$	1,2,3,4,7,8-HxCDD-$^{13}C_{12}$	0.999-1.001
1,2,3,6,7,8-HxCDD	1,2,3,6,7,8-HxCDD-$^{13}C_{12}$	1,2,3,6,7,8-HxCDD-$^{13}C_{12}$	0.998-1.004
1,2,3,7,8,9-HxCDD[a]	1,2,3,6,7,8-HxCDD-$^{13}C_{12}$	[a]	1.000-1.019
1,2,3,4,6,7,8-HpCDF	1,2,3,4,6,7,8-HpCDF-$^{13}C_{12}$	1,2,3,4,6,7,8-HpCDF-$^{13}C_{12}$	0.999-1.001
1,2,3,4,7,8,9-HpCDF	1,2,3,4,6,7,8-HpCDF-$^{13}C_{12}$	1,2,3,4,7,8,9-HpCDF-$^{13}C_{12}$	0.999-1.001
1,2,3,4,6,7,8-HpCDD	1,2,3,4,6,7,8-HpCDD-$^{13}C_{12}$	1,2,3,4,6,7,8-HpCDD-$^{13}C_{12}$	0.999-1.001
OCDF	OCDD-$^{13}C_{12}$	OCDD-$^{13}C_{12}$	0.999-1.008
OCDD	OCDD-$^{13}C_{12}$	OCDD-$^{13}C_{12}$	0.999-1.001
1,2,3,4,7,8-HxCDF-$^{13}C_{12}$	1,2,3,6,7,8-HxCDF-$^{13}C_{12}$	1,2,3,7,8,9-HxCDD-$^{13}C_{12}$	0.944-0.970
1,2,3,6,7,8-HxCDF-$^{13}C_{12}$	1,2,3,7,8,9-HxCDD-$^{13}C_{12}$	1,2,3,7,8,9-HxCDD-$^{13}C_{12}$	0.949-0.975
1,2,3,7,8,9-HxCDF-$^{13}C_{12}$	1,2,3,7,8,9-HxCDD-$^{13}C_{12}$	1,2,3,7,8,9-HxCDD-$^{13}C_{12}$	0.977-1.047
2,3,4,6,7,8-HxCDF-$^{13}C_{12}$	1,2,3,7,8,9-HxCDD-$^{13}C_{12}$	1,2,3,7,8,9-HxCDD-$^{13}C_{12}$	0.959-1.021
1,2,3,4,7,8-HxCDD-$^{13}C_{12}$	1,2,3,6,7,8-HxCDD-$^{13}C_{12}$	1,2,3,7,8,9-HxCDD-$^{13}C_{12}$	0.977-1.000
1,2,3,6,7,8-HxCDD-$^{13}C_{12}$	1,2,3,7,8,9-HxCDD-$^{13}C_{12}$	1,2,3,7,8,9-HxCDD-$^{13}C_{12}$	0.981-1.003
1,2,3,4,6,7,8-HpCDF-$^{13}C_{12}$	1,2,3,7,8,9-HxCDD-$^{13}C_{12}$	1,2,3,7,8,9-HxCDD-$^{13}C_{12}$	1.043-1.085
1,2,3,4,7,8,9-HpCDF-$^{13}C_{12}$	1,2,3,4,6,7,8-HpCDF-$^{13}C_{12}$	1,2,3,7,8,9-HxCDD-$^{13}C_{12}$	1.057-1.151
1,2,3,4,6,7,8-HpCDD-$^{13}C_{12}$	1,2,3,7,8,9-HxCDD-$^{13}C_{12}$	1,2,3,7,8,9-HxCDD-$^{13}C_{12}$	1.086-1.110
OCDD-$^{13}C_{12}$	1,2,3,7,8,9-HxCDD-$^{13}C_{12}$	1,2,3,7,8,9-HxCDD-$^{13}C_{12}$	1.032-1.311

[a] For solids/waters via 1612B, 1,2,3,7,8,9-HXCDD is quantified against the average responses of 1,2,3,4,7,8-HxCDD-$^{13}C_{12}$ and 1,2,3,6,7,8-HxCDD-$^{13}C_{12}$ while 1,2,3,6,7,8-HxCDD-$^{13}C_{12}$ is the RT reference.

Table 5: HRMS Instrumental Descriptor Parameters

Descriptor	Exact M/Z	M/Z Type	Elemental Composition	Substance	Type	Theoretical Ion Ratio	Ion Ratio QC Limits Upper	Lower
1	303.9016	M	$^{12}C_{12}\ ^{1}H_4\ ^{35}Cl_4\ ^{16}O$	TCDF	Native	0.77	0.65	0.89
	305.8987	M+2	$^{12}C_{12}\ ^{1}H_4\ ^{35}Cl_3\ ^{37}Cl\ ^{16}O$	TCDF	Native			
	315.9419	M	$^{13}C_{12}\ ^{1}H_4\ ^{35}Cl_4\ ^{16}O$	TCDF	^{13}C	0.77	0.65	0.89
	317.9389	M+2	$^{13}C_{12}\ ^{1}H_4\ ^{35}Cl_3\ ^{37}Cl\ ^{16}O$	TCDF	^{13}C			
	316.9824	Lock	$^{12}C_9\ ^{19}F_{11}$	PFK	Lock			
	319.8965	M	$^{12}C_{12}\ ^{1}H_4\ ^{35}Cl_4\ ^{16}O_2$	TCDD	Native	0.77	0.65	0.89
	321.8936	M+2	$^{12}C_{12}\ ^{1}H_4\ ^{35}Cl_3\ ^{37}Cl\ ^{16}O_2$	TCDD	Native			
	327.8847	M+8	$^{12}C_{12}\ ^{1}H_4\ ^{37}Cl_4\ ^{16}O_2$	TCDD	^{37}Cl			
	331.9368	M	$^{13}C_{12}\ ^{1}H_4\ ^{35}Cl_4\ ^{16}O_2$	TCDD	^{13}C	0.77	0.65	0.89
	333.9339	M+2	$^{13}C_{12}\ ^{1}H_4\ ^{35}Cl_3\ ^{37}Cl\ ^{16}O_2$	TCDD	^{13}C			
	339.8597	M+2	$^{12}C_{12}\ ^{1}H_3\ ^{35}Cl_4\ ^{37}Cl\ ^{16}O$	PeCDF	Native	1.55	1.32	1.78
	341.8568	M+4	$^{12}C_{12}\ ^{1}H_3\ ^{35}Cl_3\ ^{37}Cl_2\ ^{16}O$	PeCDF	Native			
	351.9	M+2	$^{13}C_{12}\ ^{1}H_3\ ^{35}Cl_4\ ^{37}Cl\ ^{16}O$	PeCDF	^{13}C	1.55	1.32	1.78
	353.897	M+4	$^{13}C_{12}\ ^{1}H_3\ ^{35}Cl_3\ ^{37}Cl_2\ ^{16}O$	PeCDF	^{13}C			
	375.8364	M+2	$^{12}C_{12}\ ^{1}H_4\ ^{35}Cl_5\ ^{37}Cl\ ^{16}O$	HxCDPE	Cl-DPE			
	409.7974	M+2	$^{12}C_{12}\ ^{1}H_3\ ^{35}Cl_6\ ^{37}Cl\ ^{16}O$	HpCDPE	Cl-DPE			
2	339.8597	M+2	$^{12}C_{12}\ ^{1}H_3\ ^{35}Cl_4\ ^{37}Cl\ ^{16}O$	PeCDF	Native	1.55	1.32	1.78
	341.8568	M+4	$^{12}C_{12}\ ^{1}H_3\ ^{35}Cl_3\ ^{37}Cl_2\ ^{16}O$	PeCDF	Native			
	351.9	M+2	$^{13}C_{12}\ ^{1}H_3\ ^{35}Cl_4\ ^{37}Cl\ ^{16}O$	PeCDF	^{13}C	1.55	1.32	1.78
	353.897	M+4	$^{13}C_{12}\ ^{1}H_3\ ^{35}Cl_3\ ^{37}Cl_2\ ^{16}O$	PeCDF	^{13}C			
	353.8576	M	$^{12}C_{12}\ ^{1}H_3\ ^{35}Cl_5\ ^{16}O_2$	PeCDD	Native	0.63	0.54	0.72
	355.8546	M+2	$^{12}C_{12}\ ^{1}H_3\ ^{35}Cl_4\ ^{37}Cl\ ^{16}O_2$	PeCDD	Native			
	366.9792	Lock	$^{12}C_{10}\ ^{19}F_{13}$	PFK	Lock			
	365.8978	M	$^{13}C_{12}\ ^{1}H_3\ ^{35}Cl_5\ ^{16}O_2$	PeCDD	^{13}C	0.63	0.54	0.72
	367.8949	M+2	$^{13}C_{12}\ ^{1}H_3\ ^{35}Cl_4\ ^{37}\ Cl\ ^{16}O_2$	PeCDD	^{13}C			
	409.7974	M+2	$^{12}C_{12}\ ^{1}H_3\ ^{35}Cl_6\ ^{37}Cl\ ^{16}O$	HpCDPE	Cl-DPE			
3	373.8207	M+2	$^{12}C_{12}\ ^{1}H_2\ ^{35}Cl_5\ ^{37}Cl\ ^{16}O$	HxCDF	Native	1.24	1.05	1.43
	375.8178	M+4	$^{12}C_{12}\ ^{1}H_2\ ^{35}Cl_4\ ^{37}Cl_2\ ^{16}O$	HxCDF	Native			
	380.976	Lock	$^{12}C_8\ ^{19}F_5$	PFK	Lock			
	383.8639	M	$^{13}C_{12}\ ^{1}H_2\ ^{35}Cl_6\ ^{16}O$	HxCDF	^{13}C	0.51	0.43	0.59
	385.861	M+2	$^{13}C_{12}\ ^{1}H_2\ ^{35}Cl_5\ ^{37}Cl\ ^{16}O$	HxCDF	^{13}C			
	389.8156	M+2	$^{12}C_{12}\ ^{1}H_2\ ^{35}Cl_5\ ^{37}Cl\ ^{16}O_2$	HxCDD	Native	1.24	1.05	1.43
	391.8127	M+4	$^{12}C_{12}\ ^{1}H_2\ ^{35}Cl_4\ ^{37}Cl_2\ ^{16}O_2$	HxCDD	Native			
	401.8559	M+2	$^{13}C_{12}\ ^{1}H_2\ ^{35}Cl_5\ ^{37}Cl\ ^{16}O_2$	HxCDD	^{13}C	1.24	1.05	1.43
	403.853	M+4	$^{13}C_{12}\ ^{1}H_2\ ^{35}Cl_4\ ^{37}Cl_2\ ^{16}O_2$	HxCDD	^{13}C			
	445.7555	M+4	$^{12}C_{12}\ ^{1}H_2\ ^{35}Cl_6\ ^{37}Cl_2\ ^{16}O$	OCDPE	Cl-DPE			
4	409.7789	M+4	$^{12}C_{12}\ ^{1}H\ ^{35}Cl_5\ ^{37}Cl_2\ ^{16}O$	HpCDF	Native	1.88	1.60	2.16
	411.7759	M+6	$^{12}C_{12}\ ^{1}H\ ^{35}Cl_4\ ^{37}Cl_3\ ^{16}O$	HpCDF	Native			
	417.8253	M	$^{13}C_{12}\ ^{1}H\ ^{35}Cl_7\ ^{16}O$	HpCDF	^{13}C	0.44	0.37	0.51
	419.822	M+2	$^{13}C_{12}\ ^{1}H\ ^{35}Cl_6\ ^{37}Cl\ ^{16}O$	HpCDF	^{13}C			
	423.7767	M+2	$^{12}C_{12}\ ^{1}H\ ^{35}Cl_6\ ^{37}Cl\ ^{16}O_2$	HpCDD	Native	1.04	0.88	1.20
	425.7737	M+4	$^{12}C_{12}\ ^{1}H\ ^{35}Cl_5\ ^{37}Cl_2\ ^{16}O_2$	HpCDD	Native			
	430.9728	Lock	$^{12}C_9\ ^{19}F_{17}$	PFK	Lock			
	435.8169	M+2	$^{13}C_{12}\ ^{1}H\ ^{35}Cl_6\ ^{37}Cl\ ^{16}O_2$	HpCDD	^{13}C	1.04	0.88	1.20
	437.814	M+4	$^{13}C_{12}\ ^{1}H\ ^{35}Cl_5\ ^{37}Cl_2\ ^{16}O_2$	HpCDD	^{13}C			
	479.7165	M+4	$^{12}C_{12}\ ^{1}H\ ^{35}Cl_7\ ^{37}Cl_2\ ^{16}O$	NCDPE	Cl-DPE			
5	441.7428	M+2	$^{12}C_{12}\ ^{35}Cl_7\ ^{37}Cl\ ^{16}O$	OCDF	Native	0.89	0.76	1.02
	443.7399	M+4	$^{12}C_{12}\ ^{35}Cl_6\ ^{37}Cl2\ ^{16}O$	OCDF	Native			
	454.9728	Lock	$^{12}C_{11}\ ^{19}F_{17}$	PFK	Lock			
	457.7377	M+2	$^{12}C_{12}\ ^{35}Cl_7\ ^{37}Cl\ ^{16}O_2$	OCDD	Native	0.89	0.76	1.02
	459.7348	M+4	$^{12}C_{12}\ ^{35}Cl_6\ ^{37}Cl_2\ ^{16}O_2$	OCDD	Native			
	469.778	M+2	$^{13}C_{12}\ ^{35}Cl_7\ ^{37}Cl\ ^{16}O_2$	OCDD	^{13}C	0.89	0.76	1.02
	471.775	M+4	$^{13}C_{12}\ ^{35}Cl_6\ ^{37}Cl_2\ ^{16}O_2$	OCDD	^{13}C			
	513.6775	M+4	$^{12}C_{12}\ ^{35}Cl_8\ ^{37}Cl_2\ ^{16}O$	DCDPE	Cl-DPE			

Data Calculations:

a) Analyte Concentrations:

The relative response factor of each target relative to the standard against which it is to be calculated is determined using the area responses of both quantification ions via equation 9.1.
In cases where a native target is calculated against an exact labelled analogue, the quantification will be considered to be by isotope dilution. In other cases, the quantification will be considered to be by internal standard.

$$RRF = \frac{(A1_t + A2_t)\ C_s}{(A1_s + A2_s)\ C_t} \qquad \text{Equ. 9.1}$$

Where,
$A1_t + A2_t$ = The areas of the two quantification ions for the target analyte
$A1_s + A2_s$ = The areas of the two quantification ions for the labelled compound against which the target analyte will be calculated.
C_t = The concentration in the calibration standard of the target analyte.
C_s = The concentration in the calibration standard of the labelled compound against which the target will be calculated.

For all analytes to be quantified and from the initial calibration series of standard injections, a table of RRFs is prepared. The relative standard deviation (%RSD, or the coefficient of variance) is checked to confirm that the appropriate method criteria has been met as listed in Table 3. The average of the five or six levels of standard for each analyte, RRF_{av} is applied for quantification of samples according to Equations 9.2 and 9.3 below.

$$\text{Amount in sample (pg)} = \frac{(A1_n + A2_n)\ Q_l}{(A1_l + A2_l)\ (RRF_{av})} \qquad \text{Equ. 9.2}$$

$$\text{Concentration in sample (pg/g or pg/l)} = \frac{(A1_n + A2_n)\ Q_l}{(A1_l + A2_l)\ (RRF_{av})\ (W_s)} \qquad \text{Equ. 9.3}$$

Where,

Q_l = The amount (pg) of labelled compound added to the sample

W_s = The weight (g) or volume (l) of sample

b) Extraction, Clean-up, and Sampling Standard Recovery Calculation:

The extraction, clean-up, and sampling standard recoveries are determined by Equation 9.4 below.

% Recovery = (Amount in sample)/(Amount added to sample) X 100 Equ. 9.4

c) Estimated Detection Limit

$$EDL = \frac{2.5 \times H_x \times Q_{es}}{H_{es} \times W \times RFF_{av}} \qquad \text{Equ. 9.5}$$

Where,

EDL = estimated detection limit for homologous 2,3,7,8-Substituted PCDD/Fs

H_x = sum of the height of the noise level for each quantification ions for the unlabelled PCDD/Fs.

H_{es} = Sum of the heights of responses of both quantification ions for the labelled extraction standard.

W = weight of volume of sample

RRF_{av} = average relative response factor

Q_{es} = Amount of extraction standard added

Chromatogram Annotation Codes

All manually integrated peaks are expanded and reprinted with the following annotations:

* Analyst Initials	AA
* Date	YYMMDD
* integration code	CC

The Syntax is:	Example:
AAYYMMDDCC	SK111220MB

Code	Mnemonic	Description
MB	Manual Baseline	The peak was manually integrated because the initial baseline was determined incorrectly by the software
MS	Manual Split	The peak was manually integrated because the peak was incorrectly or not split by the software
MJ/MC	Manual Join/Manual Combine	The peak was manually integrated because the peak was split by the software and the peak should be integrated as a single peak
MA	Manual Add	The peak was manually integrated because the signal:noise ratio was judged to be >2.5
MD	Manual Delete	The peak was excluded because the signal:noise ratio was judged to be <2.5
MX	Manual Exclude	The peak was excluded due to an interference
NH	Noise Height	The noise height for detection limit calculation was manually defined, over-riding the software chosen value
MT	Manual Time	The peak retention time was manually chosen

The following explanatory annotation codes may appear on the chromatograms of peaks that have been reviewed:

Code	Mnemonic	Description
+	Detected Peak	A peak was detected at this mass and retention time that was above 2.5:1 signal to noise
<	Below Detection Limit	The signal at this mass and retention time was below 2.5:1 signal to noise
EMPC	Estimated Maximum Possible Concentration	The signal at this mass and retention time is an interference such that the target compound could not be confirmed
X-RT	Not Detected due to Retention Time non-conformance	The signal at this retention time could not be used to positively identify the target compound because of retention time non-conformance (apex of quantification and confirmation ions do not maximize within the same two seconds, or the retention time of the peak does not fall within the expected range with respect to its labeled analogue)
X-LOC	Not Detected due to interference from a higher level of chlorination	The signal at this retention time is attributable to a fragment from a co-eluting compound at a higher level of chlorination, and cannot be used to positively identify the target. The result is expressed as an Estimated Maximum Possible Concentration (EMPC)
X-DPE	Not Detected due to diphenyl ether interference	The signal at this retention time is attributable to interference from a chlorinated diphenyl ether, and cannot be used to positively identify the target. The result is expressed as an Estimated Maximum Possible Concentration (EMPC)
X-IF	Not Detected due to interference	The signal at this retention time is attributable to a co-eluting interference, and cannot be used to positively identify the target. The result is expressed as an Estimated Maximum Possible Concentration (EMPC)

Deviations from the Primary Reference Methods:

The following changes and clarifications apply:

1) The calibration standards as listed in Table 2 are applied appropriately to all of the reference methods listed above. Such an application of one standard calibration series to all of these methods is within the scope of each and every one of the methods. The calibration standard set CS1 through CS5 is consistent with the standards concentration listing in method 1613B Table 4. The CS0 extends the calibration range below what is required by all of the methods. Table 4 defines the use of each of the labelled standards relative to each of the methods.

a. Method 1613B lists a larger suite of labelled extraction standards than does method 8290A. Additional labelled extraction standards have been added into the 8290A analysis to enhance the method and the data quality. These additions to the method constitute performance based enhancements and are within the scope of SW846 Method 8290A.

b. The levels presented in the calibration table of method 8290A are recommended values only. Changes to these concentrations, especially to expand the range, are within the scope of the method. Therefore application of the 1613B calibration standards to method 8290A is compliant with the scope of the method.

c. TO-9A is also a performance based method. It specifically states that different extraction standards and different concentrations of standards from those listed in TO-9A Table 3 is acceptable (see Section 6.8 of reference method).

d. Although OAQPS reference method 23 is not a performance based method, application of the 1613B standards has been defined as within the scope of the method. (see Appendix B)

2) Chlorinated Diphenyl Ether interferences: Both methods 1613B and 8290A indicate that any instrumental response showing the presence of a chlorinated diphenyl ether response and that coelutes with a PCDF represents an interference on that analyte (see Sections 18.3 and 7.8.4.4 respectively). This apparent zero tolerance does not take into account that the response in the diphenyl ether channel may be trivial relative to the corresponding PCDF. For this 'Standard Method', we have defined a chlorinated diphenyl ether interference as the presence of a **significant** response within the chlorinated diphenyl ether channel (rather than zero response) and defined significant as a response equal to or greater than 10% of the peak response in the PCDF channel.

3) When the primary analysis is performed using a DB5MS GC column, 2,3,7,8-TCDF can be resolved to a valley height of 60% from the closest-eluting isomers for this column, providing good quantification of this target without further confirmation. Confirmation of 2,3,7,8-TCDF concentrations above the level of the lowest calibration standard are performed on a second column on a contract basis when requested. Confirmation of additional 2,3,7,8-subtituted PCDD/F isomers is also available when requested.

4) Although not categorically stated in all associated PCDD/F methods, we maintain that each and every individual clean-up procedure is, by definition, performance-based and optional. There is not an expectation within the industry to follow exactly the descriptions of clean-ups in reference methods. Adaptations which meet or exceed the required performance criteria are therefore acceptable within the scope of each reference method. The reference method descriptions are intended as guidelines or templates available to help the laboratory to define effective in-house clean-up methods. The objective within the laboratory is to provide quality clean extracts to the instrument for analysis. Each individual clean-up is part of the laboratory's 'arsenal' in order to achieve this objective.

5) There are differences within the individual reference methods as to the precise spiking protocols for adding extraction standards and native spikes (for LCS, MS and MSD). To ensure consistency within the laboratory between PCDD/F and related methods, the PCDD/F preparative 'Specific Method' requires solids (including stack and ambient sorbants/filters) to be spiked in the soxhlet thimble from a nonane solution and waters are spiked before filtering from an acetone solution. This is consistent with the 8290A approach.

6) Sub-sampling of solids and pre-extraction processing is done in a manner that minimizes potential for cross-contamination. These processes are designed around SW846 protocols rather than 1613B protocols. Solids are sub-sampled directly from the bottle as submitted to the laboratory wherever practical. If the sample is submitted such that homogenization in the bottle is impractical (eg. the bottle is too full or lumps cannot be broken down), then transferring the sample to a tray or another bottle maybe in order.

7) The concentrations of labelled and native spiking solutions are not consistent with those listed in all of the reference methods. These concentrations are prepared at levels convenient and expedient for accurate laboratory processing.

8) With respect to extraction standard recovery limits on non-stack samples analyzed via method 8290A, the limits are based upon the inter-laboratory performance limits defined in method 1613B rather than the relatively arbitrary limits of 35-140% suggested in Section 8.4 of method 8290A.

9) With respect to ions monitored for P5CDD and H7CDF:

a. The 358 ion has a potential for interference from PCB (hexachlorobiphenyls) dependent upon levels of PCBs in the sample and the instrument tuning. Of particular concern is PCB-169 which on a DB5MS column elutes very close to 1,2,3,7,8-P5CDD and which is not removed for the PCDD/F extracts even by carbon clean-up. To eliminate the potential of such interferences from PCB on the 358 mass, we choose to monitor the alternate ion pair of 354 and 356.

b. Similarly, the 408 ion of native H7CDF is prone to problematic interferences arising from 13C-labeled heptachlorinated biphenyls. To eliminate the potential of such interferences from PCB on the 358 mass, we choose to monitor the alternate ion pair of 410 and 412.

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SVOC DATA PACKAGE

SECTION 4: CALIBRATION DATA

Including:

for Multi-Point Calibration(s)

- Multi-Point Calibration Tables
- Individual Quantitation Reports

for Continuing Calibration(s)

- Individual Quantitation Reports

ALS Life Sciences

Calibration Summary Report

Calibration Level	Filename	Run Date
CS-1	7-210611A03	11-Jun-2021 13:54
CS-2	7-210611A02	11-Jun-2021 13:13
CS-3	7-210611A01	11-Jun-2021 12:07
CS-4	7-210611A07	11-Jun-2021 16:48
CS-5	7-210611A06	11-Jun-2021 16:04

Approved: *K.BERG*
--e-signature--
15-Oct-2021

Relative Response Factors

Target Analytes	CS-1	CS-2	CS-3	CS-4	CS-5	Mean	% RSD
2,3,7,8-TCDD	1.164	1.178	1.124	1.166	1.173	1.161	2%
1,2,3,7,8-PeCDD	0.944	0.960	0.980	1.048	1.025	0.991	4%
1,2,3,4,7,8-HxCDD	1.007	1.102	0.992	1.119	0.971	1.038	7%
1,2,3,6,7,8-HxCDD	0.938	1.029	1.025	1.021	1.110	1.025	6%
1,2,3,7,8,9-HxCDD	0.969	1.033	0.999	1.039	0.985	1.005	3%
1,2,3,4,6,7,8-HpCDD	1.062	1.032	1.048	1.048	1.012	1.040	2%
OCDD	1.135	1.058	1.051	1.087	1.017	1.070	4%
2,3,7,8-TCDF	0.992	1.062	1.067	1.085	1.078	1.057	4%
1,2,3,7,8-PeCDF	1.031	1.096	1.093	1.148	1.143	1.102	4%
2,3,4,7,8-PeCDF	1.175	1.183	1.244	1.257	1.233	1.218	3%
1,2,3,4,7,8-HxCDF	1.219	1.305	1.335	1.389	1.395	1.329	5%
1,2,3,6,7,8-HxCDF	1.325	1.279	1.259	1.339	1.311	1.303	3%
2,3,4,6,7,8-HxCDF	1.357	1.412	1.407	1.471	1.441	1.418	3%
1,2,3,7,8,9-HxCDF	1.319	1.261	1.277	1.345	1.314	1.303	3%
1,2,3,4,6,7,8-HpCDF	1.086	1.079	1.052	1.098	1.058	1.075	2%
1,2,3,4,7,8,9-HpCDF	1.120	1.123	1.061	1.159	1.068	1.106	4%
OCDF	1.387	1.481	1.441	1.685	1.535	1.506	8%
Extraction Standards							
13C12-2,3,7,8-TCDD	1.168	1.125	1.173	1.179	1.237	1.176	3%
13C12-1,2,3,7,8-PeCDD	0.847	0.771	0.837	0.838	0.930	0.845	7%
13C12-1,2,3,4,7,8-HxCDD	0.910	0.913	0.975	0.847	0.989	0.927	6%
13C12-1,2,3,6,7,8-HxCDD	0.964	0.936	0.949	1.001	1.004	0.971	3%
13C12-1,2,3,4,6,7,8-HpCDD	0.808	0.741	0.662	0.667	0.716	0.719	8%
13C12-OCDD	0.679	0.453	0.408	0.392	0.514	0.489	24%
13C12-2,3,7,8-TCDF	1.718	1.660	1.795	1.770	1.840	1.757	4%
13C12-1,2,3,7,8-PeCDF	1.339	1.263	1.463	1.356	1.497	1.384	7%
13C12-2,3,4,7,8-PeCDF	1.292	1.189	1.301	1.337	1.453	1.314	7%
13C12-1,2,3,4,7,8-HxCDF	1.272	1.282	1.395	1.269	1.316	1.307	4%
13C12-1,2,3,6,7,8-HxCDF	1.360	1.420	1.459	1.467	1.485	1.438	3%
13C12-2,3,4,6,7,8-HxCDF	1.173	1.174	1.319	1.188	1.227	1.216	5%
13C12-1,2,3,7,8,9-HxCDF	1.082	1.100	1.106	1.082	1.114	1.097	1%
13C12-1,2,3,4,6,7,8-HpCDF	1.085	0.995	0.982	0.956	0.988	1.001	5%
13C12-1,2,3,4,7,8,9-HpCDF	0.868	0.757	0.726	0.683	0.751	0.757	9%
Cleanup Standard							
37Cl4-2,3,7,8-TCDD (Cleanup)	1.105	1.210	1.159	1.211	1.311	1.199	6%

ALS Life Sciences

Calibration Report

ALS Sample ID **H7-21-CS1-0199**
Analysis Method EPA 1613B
Analysis Type Calibration

Filename	Inst #	Column	Run Date	Approved:	*K.BERG*
7-210611A03	HRMS-7	DB5MSUS1221911H	11-Jun-2021 13:54		--e-signature-- 15-Oct-2021

Target Analytes	Ret. Time	Ion Ratio	Concentration ng/mL	Response	RRF
2,3,7,8-TCDD	28.5	0.86	0.50	6.02E+03	1.164
1,2,3,7,8-PeCDD	32.32	1.57	2.50	1.77E+04	0.944
1,2,3,4,7,8-HxCDD	34.31	1.38	2.50	1.80E+04	1.007
1,2,3,6,7,8-HxCDD	34.37	1.23	2.50	1.77E+04	0.938
1,2,3,7,8,9-HxCDD	34.49	1.40	2.50	1.78E+04	0.969
1,2,3,4,6,7,8-HpCDD	35.98	0.99	2.50	1.68E+04	1.062
OCDD	37.49	0.89	5.00	3.02E+04	1.135
2,3,7,8-TCDF	27.6	0.83	0.50	7.54E+03	0.992
1,2,3,7,8-PeCDF	31.41	1.48	2.50	3.06E+04	1.031
2,3,4,7,8-PeCDF	32.11	1.54	2.50	3.36E+04	1.175
1,2,3,4,7,8-HxCDF	33.84	1.29	2.50	3.04E+04	1.219
1,2,3,6,7,8-HxCDF	33.9	1.28	2.50	3.53E+04	1.325
2,3,4,6,7,8-HxCDF	34.23	1.34	2.50	3.12E+04	1.357
1,2,3,7,8,9-HxCDF	34.64	1.38	2.50	2.80E+04	1.319
1,2,3,4,6,7,8-HpCDF	35.42	1.95	2.50	2.31E+04	1.086
1,2,3,4,7,8,9-HpCDF	36.24	1.78	2.50	1.91E+04	1.120
OCDF	37.59	0.88	5.00	3.70E+04	1.387
Extraction Standards					
13C12-2,3,7,8-TCDD	28.48	0.78	100.00	1.03E+06	1.168
13C12-1,2,3,7,8-PeCDD	32.31	1.55	100.00	7.50E+05	0.847
13C12-1,2,3,4,7,8-HxCDD	34.3	1.26	100.00	7.14E+05	0.910
13C12-1,2,3,6,7,8-HxCDD	34.35	1.32	100.00	7.56E+05	0.964
13C12-1,2,3,4,6,7,8-HpCDD	35.98	1.04	100.00	6.33E+05	0.808
13C12-OCDD	37.49	0.91	200.00	1.07E+06	0.679
13C12-2,3,7,8-TCDF	27.57	0.77	100.00	1.52E+06	1.718
13C12-1,2,3,7,8-PeCDF	31.4	1.59	100.00	1.19E+06	1.339
13C12-2,3,4,7,8-PeCDF	32.1	1.59	100.00	1.14E+06	1.292
13C12-1,2,3,4,7,8-HxCDF	33.82	0.53	100.00	9.98E+05	1.272
13C12-1,2,3,6,7,8-HxCDF	33.9	0.55	100.00	1.07E+06	1.360
13C12-2,3,4,6,7,8-HxCDF	34.22	0.52	100.00	9.20E+05	1.173
13C12-1,2,3,7,8,9-HxCDF	34.64	0.55	100.00	8.49E+05	1.082
13C12-1,2,3,4,6,7,8-HpCDF	35.41	0.45	100.00	8.51E+05	1.085
13C12-1,2,3,4,7,8,9-HpCDF	36.23	0.47	100.00	6.81E+05	0.868
Cleanup Standard					
37Cl4-2,3,7,8-TCDD (Cleanup)	28.5		0.50	4.89E+03	1.105
Labeled Injection Standards					
13C12-1,2,3,4-TCDD	27.8	0.76	100.00	8.85E+05	8851.619
13C12-1,2,3,7,8,9-HxCDD	34.48	1.28	100.00	7.84E+05	7844.946

ALS Life Sciences

Calibration Report

ALS Sample ID **H7-21-CS2-0199**
Analysis Method EPA 1613B
Analysis Type Calibration

Filename	Inst #	Column	Run Date	Approved:	*K.BERG*
7-210611A02	HRMS-7	DB5MSUS1221911H	11-Jun-2021 13:13		--e-signature-- 15-Oct-2021

Target Analytes	Ret. Time	Ion Ratio	Concentration ng/mL	Response	RRF
2,3,7,8-TCDD	28.54	0.83	2.00	1.89E+04	1.178
1,2,3,7,8-PeCDD	32.33	1.69	10.00	5.29E+04	0.960
1,2,3,4,7,8-HxCDD	34.32	1.22	10.00	5.30E+04	1.102
1,2,3,6,7,8-HxCDD	34.38	1.26	10.00	5.07E+04	1.029
1,2,3,7,8,9-HxCDD	34.5	1.19	10.00	5.03E+04	1.033
1,2,3,4,6,7,8-HpCDD	35.99	1.04	10.00	4.03E+04	1.032
OCDD	37.5	0.91	20.00	5.05E+04	1.058
2,3,7,8-TCDF	27.64	0.66	2.00	2.52E+04	1.062
1,2,3,7,8-PeCDF	31.43	1.69	10.00	9.89E+04	1.096
2,3,4,7,8-PeCDF	32.12	1.61	10.00	1.00E+05	1.183
1,2,3,4,7,8-HxCDF	33.85	1.25	10.00	8.82E+04	1.305
1,2,3,6,7,8-HxCDF	33.92	1.33	10.00	9.57E+04	1.279
2,3,4,6,7,8-HxCDF	34.24	1.29	10.00	8.73E+04	1.412
1,2,3,7,8,9-HxCDF	34.65	1.23	10.00	7.31E+04	1.261
1,2,3,4,6,7,8-HpCDF	35.44	2.12	10.00	5.66E+04	1.079
1,2,3,4,7,8,9-HpCDF	36.26	1.78	10.00	4.48E+04	1.123
OCDF	37.6	0.93	20.00	7.07E+04	1.481
Extraction Standards					
13C12-2,3,7,8-TCDD	28.53	0.78	100.00	8.04E+05	1.125
13C12-1,2,3,7,8-PeCDD	32.32	1.54	100.00	5.51E+05	0.771
13C12-1,2,3,4,7,8-HxCDD	34.32	1.27	100.00	4.81E+05	0.913
13C12-1,2,3,6,7,8-HxCDD	34.37	1.27	100.00	4.93E+05	0.936
13C12-1,2,3,4,6,7,8-HpCDD	35.99	1.05	100.00	3.91E+05	0.741
13C12-OCDD	37.5	0.90	200.00	4.77E+05	0.453
13C12-2,3,7,8-TCDF	27.61	0.78	100.00	1.19E+06	1.660
13C12-1,2,3,7,8-PeCDF	31.42	1.61	100.00	9.02E+05	1.263
13C12-2,3,4,7,8-PeCDF	32.11	1.57	100.00	8.49E+05	1.189
13C12-1,2,3,4,7,8-HxCDF	33.84	0.53	100.00	6.76E+05	1.282
13C12-1,2,3,6,7,8-HxCDF	33.91	0.54	100.00	7.48E+05	1.420
13C12-2,3,4,6,7,8-HxCDF	34.23	0.54	100.00	6.19E+05	1.174
13C12-1,2,3,7,8,9-HxCDF	34.64	0.53	100.00	5.80E+05	1.100
13C12-1,2,3,4,6,7,8-HpCDF	35.42	0.44	100.00	5.24E+05	0.995
13C12-1,2,3,4,7,8,9-HpCDF	36.24	0.46	100.00	3.99E+05	0.757
Cleanup Standard					
37Cl4-2,3,7,8-TCDD (Cleanup)	28.54		2.00	1.73E+04	1.210
Labeled Injection Standards					
13C12-1,2,3,4-TCDD	27.84	0.78	100.00	7.14E+05	7143.855
13C12-1,2,3,7,8,9-HxCDD	34.49	1.26	100.00	5.27E+05	5269.898

ALS Life Sciences

Calibration Report

ALS Sample ID **H7-21-CCV-0287**
Analysis Method EPA 1613B
Analysis Type Calibration

Filename	Inst #	Column	Run Date	Approved:	*K.BERG*
7-210611A01	HRMS-7	DB5MSUS1221911H	11-Jun-2021 12:07		--e-signature-- 15-Oct-2021

Target Analytes	Ret. Time	Ion Ratio	Concentration ng/mL	Response	RRF
2,3,7,8-TCDD	28.54	0.79	10.00	1.46E+05	1.124
1,2,3,7,8-PeCDD	32.33	1.62	50.00	4.55E+05	0.980
1,2,3,4,7,8-HxCDD	34.32	1.42	50.00	3.95E+05	0.992
1,2,3,6,7,8-HxCDD	34.38	1.13	50.00	3.98E+05	1.025
1,2,3,7,8,9-HxCDD	34.5	1.25	50.00	3.93E+05	0.999
1,2,3,4,6,7,8-HpCDD	35.99	1.05	50.00	2.83E+05	1.048
OCDD	37.51	0.91	100.00	3.50E+05	1.051
2,3,7,8-TCDF	27.63	0.82	10.00	2.13E+05	1.067
1,2,3,7,8-PeCDF	31.43	1.60	50.00	8.87E+05	1.093
2,3,4,7,8-PeCDF	32.12	1.60	50.00	8.98E+05	1.244
1,2,3,4,7,8-HxCDF	33.85	1.27	50.00	7.61E+05	1.335
1,2,3,6,7,8-HxCDF	33.91	1.27	50.00	7.51E+05	1.259
2,3,4,6,7,8-HxCDF	34.24	1.25	50.00	7.59E+05	1.407
1,2,3,7,8,9-HxCDF	34.65	1.28	50.00	5.77E+05	1.277
1,2,3,4,6,7,8-HpCDF	35.44	1.93	50.00	4.23E+05	1.052
1,2,3,4,7,8,9-HpCDF	36.26	1.94	50.00	3.15E+05	1.061
OCDF	37.6	0.93	100.00	4.80E+05	1.441
Extraction Standards					
13C12-2,3,7,8-TCDD	28.51	0.76	100.00	1.30E+06	1.173
13C12-1,2,3,7,8-PeCDD	32.32	1.53	100.00	9.28E+05	0.837
13C12-1,2,3,4,7,8-HxCDD	34.31	1.27	100.00	7.97E+05	0.975
13C12-1,2,3,6,7,8-HxCDD	34.37	1.28	100.00	7.76E+05	0.949
13C12-1,2,3,4,6,7,8-HpCDD	35.99	1.07	100.00	5.41E+05	0.662
13C12-OCDD	37.5	0.89	200.00	6.67E+05	0.408
13C12-2,3,7,8-TCDF	27.61	0.79	100.00	1.99E+06	1.795
13C12-1,2,3,7,8-PeCDF	31.42	1.60	100.00	1.62E+06	1.463
13C12-2,3,4,7,8-PeCDF	32.11	1.62	100.00	1.44E+06	1.301
13C12-1,2,3,4,7,8-HxCDF	33.84	0.53	100.00	1.14E+06	1.395
13C12-1,2,3,6,7,8-HxCDF	33.9	0.55	100.00	1.19E+06	1.459
13C12-2,3,4,6,7,8-HxCDF	34.23	0.55	100.00	1.08E+06	1.319
13C12-1,2,3,7,8,9-HxCDF	34.64	0.54	100.00	9.04E+05	1.106
13C12-1,2,3,4,6,7,8-HpCDF	35.42	0.45	100.00	8.03E+05	0.982
13C12-1,2,3,4,7,8,9-HpCDF	36.24	0.44	100.00	5.93E+05	0.726
Cleanup Standard					
37Cl4-2,3,7,8-TCDD (Cleanup)	28.54		10.00	1.29E+05	1.159
Labeled Injection Standards					
13C12-1,2,3,4-TCDD	27.83	0.78	100.00	1.11E+06	11093.541
13C12-1,2,3,7,8,9-HxCDD	34.49	1.23	100.00	8.17E+05	8174.433

ALS Life Sciences

Calibration Report

ALS Sample ID **H7-21-CS4-0199**
Analysis Method EPA 1613B
Analysis Type Calibration

Filename	Inst #	Column	Run Date	Approved:	*K.BERG*
7-210611A07	HRMS-7	DB5MSUS1221911H	11-Jun-2021 16:48		--e-signature-- 15-Oct-2021

Target Analytes	Ret. Time	Ion Ratio	Concentration ng/mL	Response	RRF
2,3,7,8-TCDD	28.51	0.79	40.00	3.59E+05	1.166
1,2,3,7,8-PeCDD	32.32	1.64	200.00	1.15E+06	1.048
1,2,3,4,7,8-HxCDD	34.31	1.25	200.00	9.68E+05	1.119
1,2,3,6,7,8-HxCDD	34.37	1.29	200.00	1.04E+06	1.021
1,2,3,7,8,9-HxCDD	34.49	1.26	200.00	9.81E+05	1.039
1,2,3,4,6,7,8-HpCDD	35.99	1.08	200.00	7.15E+05	1.048
OCDD	37.5	0.90	400.00	8.70E+05	1.087
2,3,7,8-TCDF	27.6	0.78	40.00	5.01E+05	1.085
1,2,3,7,8-PeCDF	31.41	1.59	200.00	2.03E+06	1.148
2,3,4,7,8-PeCDF	32.11	1.58	200.00	2.19E+06	1.257
1,2,3,4,7,8-HxCDF	33.84	1.25	200.00	1.80E+06	1.389
1,2,3,6,7,8-HxCDF	33.91	1.31	200.00	2.01E+06	1.339
2,3,4,6,7,8-HxCDF	34.23	1.24	200.00	1.79E+06	1.471
1,2,3,7,8,9-HxCDF	34.65	1.30	200.00	1.49E+06	1.345
1,2,3,4,6,7,8-HpCDF	35.42	1.87	200.00	1.07E+06	1.098
1,2,3,4,7,8,9-HpCDF	36.24	1.85	200.00	8.09E+05	1.159
OCDF	37.59	0.89	400.00	1.35E+06	1.685
Extraction Standards					
13C12-2,3,7,8-TCDD	28.5	0.79	100.00	7.69E+05	1.179
13C12-1,2,3,7,8-PeCDD	32.31	1.51	100.00	5.47E+05	0.838
13C12-1,2,3,4,7,8-HxCDD	34.31	1.29	100.00	4.33E+05	0.847
13C12-1,2,3,6,7,8-HxCDD	34.37	1.26	100.00	5.12E+05	1.001
13C12-1,2,3,4,6,7,8-HpCDD	35.98	1.07	100.00	3.41E+05	0.667
13C12-OCDD	37.49	0.90	200.00	4.00E+05	0.392
13C12-2,3,7,8-TCDF	27.58	0.78	100.00	1.16E+06	1.770
13C12-1,2,3,7,8-PeCDF	31.4	1.60	100.00	8.85E+05	1.356
13C12-2,3,4,7,8-PeCDF	32.1	1.60	100.00	8.73E+05	1.337
13C12-1,2,3,4,7,8-HxCDF	33.82	0.56	100.00	6.48E+05	1.269
13C12-1,2,3,6,7,8-HxCDF	33.9	0.53	100.00	7.49E+05	1.467
13C12-2,3,4,6,7,8-HxCDF	34.22	0.54	100.00	6.07E+05	1.188
13C12-1,2,3,7,8,9-HxCDF	34.64	0.56	100.00	5.53E+05	1.082
13C12-1,2,3,4,6,7,8-HpCDF	35.41	0.45	100.00	4.88E+05	0.956
13C12-1,2,3,4,7,8,9-HpCDF	36.23	0.47	100.00	3.49E+05	0.683
Cleanup Standard					
37Cl4-2,3,7,8-TCDD (Cleanup)	28.51		40.00	3.16E+05	1.211
Labeled Injection Standards					
13C12-1,2,3,4-TCDD	27.8	0.78	100.00	6.53E+05	6528.252
13C12-1,2,3,7,8,9-HxCDD	34.49	1.19	100.00	5.11E+05	5109.015

ALS Life Sciences

Calibration Report

ALS Sample ID **H7-21-CS5-0199**
Analysis Method EPA 1613B
Analysis Type Calibration

Filename	Inst #	Column	Run Date	Approved:	*K.BERG*
7-210611A06	HRMS-7	DB5MSUS1221911H	11-Jun-2021 16:04		--e-signature-- 15-Oct-2021

Target Analytes	Ret. Time	Ion Ratio	Concentration ng/mL	Response	RRF
2,3,7,8-TCDD	28.51	0.79	200.00	1.78E+06	1.173
1,2,3,7,8-PeCDD	32.32	1.62	1000.00	5.85E+06	1.025
1,2,3,4,7,8-HxCDD	34.32	1.26	1000.00	4.88E+06	0.971
1,2,3,6,7,8-HxCDD	34.38	1.26	1000.00	5.66E+06	1.110
1,2,3,7,8,9-HxCDD	34.5	1.25	1000.00	4.98E+06	0.985
1,2,3,4,6,7,8-HpCDD	35.99	1.08	1000.00	3.68E+06	1.012
OCDD	37.51	0.90	2000.00	5.31E+06	1.017
2,3,7,8-TCDF	27.61	0.79	200.00	2.43E+06	1.078
1,2,3,7,8-PeCDF	31.42	1.58	1000.00	1.05E+07	1.143
2,3,4,7,8-PeCDF	32.12	1.60	1000.00	1.10E+07	1.233
1,2,3,4,7,8-HxCDF	33.85	1.27	1000.00	9.32E+06	1.395
1,2,3,6,7,8-HxCDF	33.91	1.27	1000.00	9.89E+06	1.311
2,3,4,6,7,8-HxCDF	34.24	1.27	1000.00	8.98E+06	1.441
1,2,3,7,8,9-HxCDF	34.65	1.27	1000.00	7.43E+06	1.314
1,2,3,4,6,7,8-HpCDF	35.42	1.90	1000.00	5.31E+06	1.058
1,2,3,4,7,8,9-HpCDF	36.24	1.91	1000.00	4.08E+06	1.068
OCDF	37.6	0.92	2000.00	8.01E+06	1.535
Extraction Standards					
13C12-2,3,7,8-TCDD	28.5	0.76	100.00	7.59E+05	1.237
13C12-1,2,3,7,8-PeCDD	32.31	1.57	100.00	5.71E+05	0.930
13C12-1,2,3,4,7,8-HxCDD	34.31	1.29	100.00	5.03E+05	0.989
13C12-1,2,3,6,7,8-HxCDD	34.37	1.29	100.00	5.10E+05	1.004
13C12-1,2,3,4,6,7,8-HpCDD	35.98	1.01	100.00	3.64E+05	0.716
13C12-OCDD	37.5	0.88	200.00	5.22E+05	0.514
13C12-2,3,7,8-TCDF	27.58	0.80	100.00	1.13E+06	1.840
13C12-1,2,3,7,8-PeCDF	31.41	1.57	100.00	9.19E+05	1.497
13C12-2,3,4,7,8-PeCDF	32.11	1.58	100.00	8.92E+05	1.453
13C12-1,2,3,4,7,8-HxCDF	33.84	0.54	100.00	6.69E+05	1.316
13C12-1,2,3,6,7,8-HxCDF	33.9	0.54	100.00	7.55E+05	1.485
13C12-2,3,4,6,7,8-HxCDF	34.23	0.55	100.00	6.23E+05	1.227
13C12-1,2,3,7,8,9-HxCDF	34.64	0.54	100.00	5.66E+05	1.114
13C12-1,2,3,4,6,7,8-HpCDF	35.42	0.47	100.00	5.02E+05	0.988
13C12-1,2,3,4,7,8,9-HpCDF	36.24	0.47	100.00	3.81E+05	0.751
Cleanup Standard					
37Cl4-2,3,7,8-TCDD (Cleanup)	28.51		200.00	1.61E+06	1.311
Labeled Injection Standards					
13C12-1,2,3,4-TCDD	27.82	0.76	100.00	6.14E+05	6136.832
13C12-1,2,3,7,8,9-HxCDD	34.49	1.28	100.00	5.08E+05	5080.442

ALS Life Sciences

Second Source Calibration Verification Report

Sample Name	**CVS**	Sampling Date	n/a		
ALS Sample ID	H7-21-RS1-0199	Extraction Date	n/a		Approved:
Analysis Method	EPA 1613B	Sample Size	1	n/a	*K.BERG*
Analysis Type	CCV	Percent Moisture	n/a		--e-signature--
Sample Matrix	QC	Split Ratio	1		15-Oct-2021

Run Information	**Run 1**
Filename	7-210611A08
Run Date	11-Jun-21 17:31
Final Volume	10 uL
Dilution Factor	1
Analysis Units	%
Instrument - Column	HRMS 7 DB5MSUS1221911H

Target Analytes	**pg/uL**	**Ret. Time**	**% Rec**	**Limits**	**Flags**
2,3,7,8-TCDD	10	28.50	95	78-129	
1,2,3,7,8-PeCDD	50	32.31	109	78-130	
1,2,3,4,7,8-HxCDD	50	34.31	100	78-128	
1,2,3,6,7,8-HxCDD	50	34.37	108	78-128	
1,2,3,7,8,9-HxCDD	50	34.49	110	82-122	
1,2,3,4,6,7,8-HpCDD	50	35.98	104	86-116	
OCDD	100	37.49	104	79-126	
2,3,7,8-TCDF	10	27.60	104	84-120	
1,2,3,7,8-PeCDF	50	31.41	103	82-120	
2,3,4,7,8-PeCDF	50	32.11	98	82-122	
1,2,3,4,7,8-HxCDF	50	33.84	101	90-112	
1,2,3,6,7,8-HxCDF	50	33.90	101	88-114	
2,3,4,6,7,8-HxCDF	50	34.23	99	88-114	
1,2,3,7,8,9-HxCDF	50	34.64	111	90-112	
1,2,3,4,6,7,8-HpCDF	50	35.41	100	90-110	
1,2,3,4,7,8,9-HpCDF	50	36.23	102	86-116	
OCDF	100	37.59	114	63-159	

Extraction Standards	**pg/uL**		**% Rec**	**Limits**
13C12-2,3,7,8-TCDD	100	28.48	97	82-121
13C12-1,2,3,7,8-PeCDD	100	32.30	94	62-160
13C12-1,2,3,4,7,8-HxCDD	100	34.30	95	85-117
13C12-1,2,3,6,7,8-HxCDD	100	34.35	101	85-118
13C12-1,2,3,4,6,7,8-HpCDD	100	35.97	105	72-138
13C12-OCDD	200	37.48	95	48-207
13C12-2,3,7,8-TCDF	100	27.58	99	71-140
13C12-1,2,3,7,8-PeCDF	100	31.40	97	76-130
13C12-2,3,4,7,8-PeCDF	100	32.10	94	77-130
13C12-1,2,3,4,7,8-HxCDF	100	33.82	105	76-131
13C12-1,2,3,6,7,8-HxCDF	100	33.89	103	70-143
13C12-2,3,4,6,7,8-HxCDF	100	34.22	103	73-137
13C12-1,2,3,7,8,9-HxCDF	100	34.63	100	74-135
13C12-1,2,3,4,6,7,8-HpCDF	100	35.41	105	78-129
13C12-1,2,3,4,7,8,9-HpCDF	100	36.23	106	77-129

Cleanup Standard	**pg/uL**			
37Cl4-2,3,7,8-TCDD (Cleanup)	10	28.51	114	31-191

ALS Life Sciences

Continuing Calibration Report

Sample Name	**CCV**	Sampling Date	n/a		
ALS Sample ID	H7-21-CCV-604	Extraction Date	n/a		Approved:
Analysis Method	EPA 1613B	Sample Size	1	n/a	*K.BERG*
Analysis Type	CCV	Percent Moisture	n/a		--e-signature--
Sample Matrix	QC	Split Ratio	1		15-Oct-2021

Run Information	**Run 1**
Filename	7-211010A17
Run Date	10-Oct-21 19:49
Final Volume	10 uL
Dilution Factor	1
Analysis Units	%
Instrument - Column	HRMS 7 DB5MSUS1331822H

Target Analytes	**pg/uL**	**Ret. Time**	**% Rec**	**Limits**	**Flags**
2,3,7,8-TCDD	10	28.57	89	78-129	
1,2,3,7,8-PeCDD	50	32.36	103	78-130	
1,2,3,4,7,8-HxCDD	50	34.35	89	78-128	
1,2,3,6,7,8-HxCDD	50	34.40	111	78-128	
1,2,3,7,8,9-HxCDD	50	34.53	112	82-122	
1,2,3,4,6,7,8-HpCDD	50	36.02	103	86-116	
OCDD	100	37.55	93	79-126	
2,3,7,8-TCDF	10	27.66	105	84-120	
1,2,3,7,8-PeCDF	50	31.46	105	82-120	
2,3,4,7,8-PeCDF	50	32.15	103	82-122	
1,2,3,4,7,8-HxCDF	50	33.88	103	90-112	
1,2,3,6,7,8-HxCDF	50	33.94	100	88-114	
2,3,4,6,7,8-HxCDF	50	34.26	100	88-114	
1,2,3,7,8,9-HxCDF	50	34.69	101	90-112	
1,2,3,4,6,7,8-HpCDF	50	35.46	97	90-110	
1,2,3,4,7,8,9-HpCDF	50	36.28	100	86-116	
OCDF	100	37.64	99	63-159	

Extraction Standards	**pg/uL**		**% Rec**	**Limits**
13C12-2,3,7,8-TCDD	100	28.54	96	82-121
13C12-1,2,3,7,8-PeCDD	100	32.35	88	62-160
13C12-1,2,3,4,7,8-HxCDD	100	34.33	86	85-117
13C12-1,2,3,6,7,8-HxCDD	100	34.39	98	85-118
13C12-1,2,3,4,6,7,8-HpCDD	100	36.02	94	72-138
13C12-OCDD	200	37.54	100	48-207
13C12-2,3,7,8-TCDF	100	27.64	87	71-140
13C12-1,2,3,7,8-PeCDF	100	31.45	87	76-130
13C12-2,3,4,7,8-PeCDF	100	32.15	92	77-130
13C12-1,2,3,4,7,8-HxCDF	100	33.87	87	76-131
13C12-1,2,3,6,7,8-HxCDF	100	33.93	96	70-143
13C12-2,3,4,6,7,8-HxCDF	100	34.25	92	73-137
13C12-1,2,3,7,8,9-HxCDF	100	34.67	89	74-135
13C12-1,2,3,4,6,7,8-HpCDF	100	35.45	103	78-129
13C12-1,2,3,4,7,8,9-HpCDF	100	36.27	95	77-129

Cleanup Standard	**pg/uL**			
37Cl4-2,3,7,8-TCDD (Cleanup)	10	28.57	92	31-191

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Continuing Calibration Report

Sample Name	**CCV**	Sampling Date	n/a		
ALS Sample ID	H7-21-CCV-605	Extraction Date	n/a		Approved:
Analysis Method	EPA 1613B	Sample Size	1	n/a	*K.BERG*
Analysis Type	CCV	Percent Moisture	n/a		--e-signature--
Sample Matrix	QC	Split Ratio	1		15-Oct-2021

Run Information	**Run 1**
Filename	7-211010A31
Run Date	11-Oct-21 06:09
Final Volume	10 uL
Dilution Factor	1
Analysis Units	%
Instrument - Column	HRMS 7 DB5MSUS1331822H

Target Analytes	**pg/uL**	**Ret. Time**	**% Rec**	**Limits**	**Flags**
2,3,7,8-TCDD	10	28.57	87	78-129	
1,2,3,7,8-PeCDD	50	32.36	102	78-130	
1,2,3,4,7,8-HxCDD	50	34.35	89	78-128	R
1,2,3,6,7,8-HxCDD	50	34.40	104	78-128	
1,2,3,7,8,9-HxCDD	50	34.53	115	82-122	
1,2,3,4,6,7,8-HpCDD	50	36.03	104	86-116	
OCDD	100	37.55	96	79-126	
2,3,7,8-TCDF	10	27.66	107	84-120	
1,2,3,7,8-PeCDF	50	31.46	104	82-120	
2,3,4,7,8-PeCDF	50	32.16	102	82-122	
1,2,3,4,7,8-HxCDF	50	33.88	103	90-112	
1,2,3,6,7,8-HxCDF	50	33.94	99	88-114	
2,3,4,6,7,8-HxCDF	50	34.27	100	88-114	
1,2,3,7,8,9-HxCDF	50	34.69	98	90-112	
1,2,3,4,6,7,8-HpCDF	50	35.46	101	90-110	
1,2,3,4,7,8,9-HpCDF	50	36.28	96	86-116	
OCDF	100	37.65	97	63-159	

Extraction Standards	**pg/uL**		**% Rec**	**Limits**
13C12-2,3,7,8-TCDD	100	28.56	97	82-121
13C12-1,2,3,7,8-PeCDD	100	32.35	89	62-160
13C12-1,2,3,4,7,8-HxCDD	100	34.35	77	85-117
13C12-1,2,3,6,7,8-HxCDD	100	34.39	100	85-118
13C12-1,2,3,4,6,7,8-HpCDD	100	36.02	93	72-138
13C12-OCDD	200	37.54	106	48-207
13C12-2,3,7,8-TCDF	100	27.64	87	71-140
13C12-1,2,3,7,8-PeCDF	100	31.45	87	76-130
13C12-2,3,4,7,8-PeCDF	100	32.15	91	77-130
13C12-1,2,3,4,7,8-HxCDF	100	33.87	81	76-131
13C12-1,2,3,6,7,8-HxCDF	100	33.93	99	70-143
13C12-2,3,4,6,7,8-HxCDF	100	34.26	91	73-137
13C12-1,2,3,7,8,9-HxCDF	100	34.67	89	74-135
13C12-1,2,3,4,6,7,8-HpCDF	100	35.46	100	78-129
13C12-1,2,3,4,7,8,9-HpCDF	100	36.28	96	77-129

Cleanup Standard	**pg/uL**			
37Cl4-2,3,7,8-TCDD (Cleanup)	10	28.57	94	31-191

R Indicates that the ion abundance ratio for this compound did not meet the acceptance criterion.

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SVOC DATA PACKAGE

SECTION 5: QC SAMPLE DATA

Including:

- Laboratory Method Blank Analysis Reports
- Laboratory Control Sample Analysis Reports
- Matrix Spike Analysis Reports
- Other QC Sample Analysis Reports (where applicable)

ALS Life Sciences

Laboratory Method Blank Analysis Report

Sample Name	**Method Blank**	Sampling Date	n/a		
ALS Sample ID	WG3603574-1	Extraction Date	3-Sep-21		Approved:
Analysis Method	EPA 1613B	Sample Size	4.27	g	*K.BERG*
Analysis Type	Blank	Percent Moisture	n/a		--e-signature--
Sample Matrix	QC	Split Ratio	2		15-Oct-2021

Run Information	**Run 1**
Filename	7-211010A22
Run Date	10-Oct-21 23:34
Final Volume	10 uL
Dilution Factor	1
Analysis Units	pg/g
Instrument - Column	HRMS 7 DB5MSUS1331822H

Target Analytes	**TEF (WHO 2005)**	**Ret. Time**	**Conc. pg/g**	**EDL pg/g**	**Flags**	**EMPC pg/g**	**LQL**
2,3,7,8-TCDD	1	NotFnd	<0.13	0.13	U		2.3
1,2,3,7,8-PeCDD	1	NotFnd	<0.16	0.16	U		12
1,2,3,4,7,8-HxCDD	0.1	NotFnd	<0.17	0.17	U		12
1,2,3,6,7,8-HxCDD	0.1	NotFnd	<0.16	0.16	U		12
1,2,3,7,8,9-HxCDD	0.1	NotFnd	<0.17	0.17	U		12
1,2,3,4,6,7,8-HpCDD	0.01	NotFnd	<0.35	0.35	U		12
OCDD	0.0003	37.56	<0.93	0.50	J,R	0.93	23
2,3,7,8-TCDF	0.1	NotFnd	<0.11	0.11	U		2.3
1,2,3,7,8-PeCDF	0.03	31.45	<0.12	0.12	U	0.089	12
2,3,4,7,8-PeCDF	0.3	NotFnd	<0.10	0.10	U		12
1,2,3,4,7,8-HxCDF	0.1	NotFnd	<0.12	0.12	U		12
1,2,3,6,7,8-HxCDF	0.1	NotFnd	<0.12	0.12	U		12
2,3,4,6,7,8-HxCDF	0.1	34.27	<0.13	0.13	U	0.085	12
1,2,3,7,8,9-HxCDF	0.1	34.69	<0.23	0.23	U	0.17	12
1,2,3,4,6,7,8-HpCDF	0.01	NotFnd	<0.25	0.25	U		12
1,2,3,4,7,8,9-HpCDF	0.01	NotFnd	<0.43	0.43	U		12
OCDF	0.0003	37.65	<0.54	0.28	J,R	0.54	23

Extraction Standards	**pg**		**% Rec**	**Limits**
13C12-2,3,7,8-TCDD	4000	28.56	51	25-164
13C12-1,2,3,7,8-PeCDD	4000	32.35	42	25-181
13C12-1,2,3,4,7,8-HxCDD	4000	34.35	44	32-141
13C12-1,2,3,6,7,8-HxCDD	4000	34.40	62	28-130
13C12-1,2,3,4,6,7,8-HpCDD	4000	36.02	43	23-140
13C12-OCDD	8000	37.55	43	17-157
13C12-2,3,7,8-TCDF	4000	27.64	47	24-169
13C12-1,2,3,7,8-PeCDF	4000	31.46	46	24-185
13C12-2,3,4,7,8-PeCDF	4000	32.15	43	21-178
13C12-1,2,3,4,7,8-HxCDF	4000	33.87	50	26-152
13C12-1,2,3,6,7,8-HxCDF	4000	33.93	65	26-123
13C12-2,3,4,6,7,8-HxCDF	4000	34.26	56	28-136
13C12-1,2,3,7,8,9-HxCDF	4000	34.69	49	29-147
13C12-1,2,3,4,6,7,8-HpCDF	4000	35.46	50	28-143
13C12-1,2,3,4,7,8,9-HpCDF	4000	36.28	43	26-138

Cleanup Standard	**pg**			
37Cl4-2,3,7,8-TCDD (Cleanup)	40	28.57	50	35-197

Homologue Group Totals	**# peaks**	**Conc. pg/g**	**EDL pg/g**		**LQL**
Total-TCDD	0	<0.13	0.13	U	2.3
Total-PeCDD	0	<0.16	0.16	U	12
Total-HxCDD	0	<0.17	0.17	U	12
Total-HpCDD	0	<0.35	0.35	U	12
Total-TCDF	0	<0.11	0.11	U	2.3
Total-PeCDF	0	<0.12	0.12	U	12
Total-HxCDF	0	<0.23	0.23	U	12
Total-HpCDF	0	<0.43	0.43	U	12

Toxic Equivalency - (WHO 2005)	**pg/g**
Lower Bound PCDD/F TEQ (WHO 2005)	0.00
Mid Point PCDD/F TEQ (WHO 2005)	0.228
Upper Bound PCDD/F TEQ (WHO 2005)	0.455

EDL	Indicates the Estimated Detection Limit, based on the measured background noise for this target in this sample.
TEF	Indicates the Toxic Equivalency Factor
TEQ	Indicates the Toxic Equivalency
U	Indicates that this compound was not detected above the EDL.
J	Indicates that a target analyte was detected below the calibrated range.
R	Indicates that the ion abundance ratio for this compound did not meet the acceptance criterion.
LQL	Lower Quantification Limit, based on the lowest calibration level corrected for sample size, splits and dilutions.
EMPC	Estimated Maximum Possible Concentration – elevated detection limit due to interference or positive id criterion failure

ALS Life Sciences

Laboratory Control Sample Analysis Report

Sample Name	**Laboratory Control Sample**	Sampling Date	n/a		
ALS Sample ID	WG3603574-2	Extraction Date	3-Sep-21		Approved:
Analysis Method	EPA 1613B	Sample Size	1	n/a	*K.BERG*
Analysis Type	LCS	Percent Moisture	n/a		--e-signature--
Sample Matrix	QC	Split Ratio	2		15-Oct-2021

Run Information	**Run 1**
Filename	7-211010A18
Run Date	10-Oct-21 20:42
Final Volume	10 uL
Dilution Factor	1
Analysis Units	%
Instrument - Column	HRMS 7 DB5MSUS1331822H

Target Analytes	**pg**	**Ret. Time**	**% Rec**	**Limits**	**Flags**
2,3,7,8-TCDD	400	28.59	78	67-158	
1,2,3,7,8-PeCDD	2000	32.37	106	70-142	
1,2,3,4,7,8-HxCDD	2000	34.36	101	70-164	
1,2,3,6,7,8-HxCDD	2000	34.40	91	76-134	
1,2,3,7,8,9-HxCDD	2000	34.54	112	64-162	
1,2,3,4,6,7,8-HpCDD	2000	36.03	92	70-140	
OCDD	4000	37.56	90	78-144	
2,3,7,8-TCDF	400	27.68	99	75-158	
1,2,3,7,8-PeCDF	2000	31.48	104	80-134	
2,3,4,7,8-PeCDF	2000	32.16	96	68-160	
1,2,3,4,7,8-HxCDF	2000	33.88	101	72-134	
1,2,3,6,7,8-HxCDF	2000	33.95	97	84-130	
2,3,4,6,7,8-HxCDF	2000	34.27	97	70-156	
1,2,3,7,8,9-HxCDF	2000	34.70	102	78-130	
1,2,3,4,6,7,8-HpCDF	2000	35.47	102	82-122	
1,2,3,4,7,8,9-HpCDF	2000	36.29	98	78-138	
OCDF	4000	37.66	92	63-170	
Extraction Standards	**pg**		**% Rec**	**Limits**	
13C12-2,3,7,8-TCDD	4000	28.56	62	20-175	
13C12-1,2,3,7,8-PeCDD	4000	32.35	58	21-227	
13C12-1,2,3,4,7,8-HxCDD	4000	34.35	54	21-193	
13C12-1,2,3,6,7,8-HxCDD	4000	34.40	75	25-163	
13C12-1,2,3,4,6,7,8-HpCDD	4000	36.03	61	26-166	
13C12-OCDD	8000	37.56	66	13-138	
13C12-2,3,7,8-TCDF	4000	27.66	59	22-152	
13C12-1,2,3,7,8-PeCDF	4000	31.46	62	21-192	
13C12-2,3,4,7,8-PeCDF	4000	32.15	57	13-328	
13C12-1,2,3,4,7,8-HxCDF	4000	33.87	59	19-202	
13C12-1,2,3,6,7,8-HxCDF	4000	33.94	75	21-159	
13C12-2,3,4,6,7,8-HxCDF	4000	34.26	66	22-176	
13C12-1,2,3,7,8,9-HxCDF	4000	34.69	61	17-205	
13C12-1,2,3,4,6,7,8-HpCDF	4000	35.46	64	21-158	
13C12-1,2,3,4,7,8,9-HpCDF	4000	36.28	60	20-186	
Cleanup Standard	**pg**				
37Cl4-2,3,7,8-TCDD (Cleanup)	40	28.59	67	31-191	

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SECTION 6: INTERNAL RECORDS

Including:

- Prep Logs
- Independent calculation checks
- Others as listed below:

Extraction Workup Sheet

(3)

Batch ID:	WG3603574	Analysis:	Sediment - DX/PCB/PBDE **PBDE protocol**
Analyst:	Amith Bhusal	Date:	03-Sep-2021

SUBSAMPLING

Sample I.D.	Client I.D.	Wet Sub-sample (g)
WG3603574-1	Method Blank	20.01
WG3603574-2	Laboratory Control Sample	20.02
WG3603574-3	Extraction and Injection STD.	—
L2625428-2	INCIN. FEED	20.45
	If copper treatment needed - only copper treat DX portion	

BATCH TRACKING

	Date/Time/Initials
Bottle volume marked:	03-Sep-2021 11:09 AM
Client Labels Checked:	AB
Samples Spiked	AR
Samples Filtered:	—
Liquid/Liquid extraction:	—
Soxhlet start time:	03-Sept-21 3:00 PM AR
Soxhlet reflux properly:	MC
Soxhlet end time:	4-Sept-2021 7:00 AM MC
Rotovap Reduction:	7-Sept-21 ACB
Rotovap Temp Verified:	7-Sept-21 ACB
Acid Column:	7-Sept-21 ACB
Split:	9-Sept-21 ACB
Alumina Column:	9-Sept-21 ACB
Carbon Column:	5-Oct-21 ACB
N-Evap Temp Verified:	9-Sept-21 ACB PCB
Micro/Robo Vial:	9-Sept-21 ACB PCB 5-Oct-21 ACB DX

Batch ID:	WG3603574

DX Extraction Standard:

Sample I.D.	Volume (ul)	(Checkmark) Spiked
WG3603574-1	40	✓
WG3603574-2	40	✓
WG3603574-3	40	✓
L2625428-2	40	✓
	40	
	40	
	40	
	40	
	40	
	40	
	40	
	40	
	40	
	40	
	40	
	40	

Syringe ID: 318

Standard: 1613B-ES#1- 093D

Spike Date: 03-Sept-2021

Spike Witnessing

Chemist: AR (Chemist's Initials)

Witness: AGB (Witness's Initials)

Correct Syringe Obtained: AGB (Witness's Initials)

Correct Standard Obtained: AGB (Witness's Initials)

Correct Technique Followed: AGB (Witness's Initials)

PCB Extraction Standard:

Sample I.D.	Volume (ul)	(Checkmark) Spiked
WG3603574-1	40	✓
WG3603574-2	40	✓
WG3603574-3	40	✓
L2625428-2	40	✓
	40	
	40	
	40	
	40	
	40	
	40	
	40	
	40	
	40	
	40	
	40	
	40	

Syringe ID: 165

Standard: 1668A-ES#2- 075m

Spike Date: 03-Sept-2021

Spike Witnessing

Chemist: AR (Chemist's Initials)

Witness: AGB (Witness's Initials)

Correct Syringe Obtained: AGB (Witness's Initials)

Correct Standard Obtained: AGB (Witness's Initials)

Correct Technique Followed: AGB (Witness's Initials)

Batch ID:	WG3603574

PBDE Extraction Standard:

Sample I.D.	Volume (ul)	Spiked (Checkmark)
WG3603574-1	40	✓
WG3603574-2	40	✓
WG3603574-3	40	✓
L2625428-2	40	✓
	40	
	40	
	40	
	40	
	40	
	40	
	40	
	40	
	40	
	40	
	40	

Syringe ID: 169

Standard: PBDEX-ES#1- 008E

Spike Date: 03-Sept-2021

Spike Witnessing

Chemist's Initials

Chemist: AR

Witness's Initials

Witness: AGB

Witness's Initials

Correct Syringe Obtained: AGB

Witness's Initials

Correct Standard Obtained: AGB

Witness's Initials

Correct Technique Followed: AGB

DX Native Standard:

Sample I.D.	Volume (ul)	Spiked (Checkmark)
WG3603574-2	40	✓
WG3603574-3	40	✓

Syringe ID: 322

Standard: 1613B-NS#3-035B

Date & Initials: 03-Sept-2021 AGB

PCB Native Standard:

Sample I.D.	Volume (ul)	Spiked (Checkmark)
WG3603574-2	40	✓
WG3603574-3	40	✓

Syringe ID: 401

Standard: 1668A-NS#1- 043F

Date & Initials: 13-Sept-2021 AGB

PBDE Native Standard:

Sample I.D.	Volume (ul)	Spiked (Checkmark)
WG3603574-2	40	✓
WG3603574-3	40	✓

Syringe ID: 324

Standard: PBDEX-NS#1- 005B

Date & Initials: 03-Sept-2021 AGB

Batch ID:	WG3603574

DX Cleanup Standard:

Sample I.D.	Volume (ul)	Spiked (Checkmark)
WG3603574-1	20	✓
WG3603574-2	20	✓
WG3603574-3	20	N/A
L2625428-2	20	✓
	20	
	20	
	20	
	20	
	20	
	20	
	20	
	20	
	20	
	20	
	20	

Syringe ID: 399

Standard: 1613B-CL#2- 080B

Date & Initials: 7-Sept-21 ACB

Chemist's Initials

Correct Syringe Obtained: ACB

Chemist's Initials

Correct Standard Obtained: ACB

Chemist's Initials

Correct Technique Followed: ACB

PCB Cleanup Standard:

Sample I.D.	Volume (ul)	Spiked (Checkmark)
WG3603574-1	20	✓
WG3603574-2	20	✓
WG3603574-3	20	N/A
L2625428-2	20	✓
	20	
	20	
	20	
	20	
	20	
	20	
	20	
	20	
	20	
	20	

Syringe ID: 378

Standard: 1668A-CL#2- 041I

Date & Initials: 7-Sept-21 ACB

Chemist's Initials

Correct Syringe Obtained: ACB

Chemist's Initials

Correct Standard Obtained: ACB

Chemist's Initials

Correct Technique Followed: ACB

Batch ID:	WG3603574

PBDE Cleanup Standard:

Sample I.D.	Volume (ul)	Spiked (Checkmark)
WG3603574-1	20	✓
WG3603574-2	20	✓
WG3603574-3	20	N/A
L2625428-2	20	✓
	20	
	20	
	20	
	20	
	20	
	20	
	20	
	20	
	20	
	20	

Syringe ID: 386

Standard: PBDEX-CL#1- 005F

Date & Initials: 7-Sept-21 ACB

Correct Syringe Obtained: ACB (Chemist's Initials)

Correct Standard Obtained: ACB (Chemist's Initials)

Correct Technique Followed: ACB (Chemist's Initials)

PCB Injection Standard:

Sample I.D.	Volume (ul)	Spiked (Checkmark)
WG3603574-1	5	✓
WG3603574-2	5	✓
WG3603574-3	5	✓
L2625428-2	5	✓
	5	
	5	
	5	
	5	
	5	
	5	
	5	
	5	
	5	
	5	
	5	
	5	
	5	
	5	
	5	
	5	
	5	

Syringe ID: 407

Standard: 1668A-IS#2- 016E

Date & Initials: 9-Sept-21 ACB

Correct Syringe Obtained: ACB (Chemist's Initials)

Correct Standard Obtained: ACB (Chemist's Initials)

Correct Technique Followed: ACB (Chemist's Initials)

Batch ID:	WG3603574

PBDE Injection Standard: (Checkmark)

Sample I.D.	Volume (ul)	Spiked
WG3603574-1	5	✓
WG3603574-2	5	✓
WG3603574-3	5	✓
L2625428-2	5	✓
	5	
	5	
	5	
	5	
	5	
	5	
	5	
	5	
	5	
	5	
	5	
	5	
	5	
	5	
	5	
	5	

Syringe ID: 341

Standard: PBDEX-IS#1-

Date & Initials: 9-Sept-21 ACB

Chemist's Initials

Correct Syringe Obtained: ACB

Chemist's Initials

Correct Standard Obtained: ACB

Chemist's Initials

Correct Technique Followed: ACB

DX Injection Standard: (Checkmark)

Sample I.D.	Volume (ul)	Spiked
WG3603574-1	10	✓
WG3603574-2	10	✓
WG3603574-3	10	-
L2625428-2	10	✓
	10	
	10	
	10	
	10	
	10	
	10	
	10	
	10	
	10	
	10	
	10	
	10	
	10	
	10	
	10	
	10	
	10	

Syringe ID: 368

Standard: 1613B-IS#1- 095I

Date & Initials: 5-Oct-21 ACB

Chemist's Initials

Correct Syringe Obtained: ACB

Chemist's Initials

Correct Standard Obtained: ACB

Chemist's Initials

Correct Technique Followed: ACB

Could not find W3
5-Oct-21 ACB

Batch ID:	WG3603574

Procedure:

This batchsheet is a guideline only. Please see test procedure for complete set of instructions.
Extraction:
- Subsample size =20g. Dry Weight 10g.
- Mix with sand to create a free-flowing mixture.
- Spike Extraction and Native Standards.
- Dean-Stark Soxhlet extract in Toluene.
- Roto-vap down to ~2ml
- Transfer to a c-tube with 3x2ml Hexane rinses.
- Reduce to 1mL and spike cleanup standards.
- Perform Acid Silica column
- Elute to 50ml with Hexane.

Reduce to 2mL and Split **1/2 DX 1/2 PCB/PBDE**

-Perform Copper treatment only on DX portion!
PCB/PBDE
- Reduce to 50uL, bulk up with 1mL of Hexane
- Perform Alumina Column:
• Pre-elute the Alumina Column with 7ml Hexane
• Place F1 c-tube under the column, then load the sample with 3x 1ml Hexane Rinses
• F1 1mL of Hexane
• Place F2 c-tube under the column. Ensure ctube is accurately marked for split
• F2 (DX/PCB/PBDE) **25ml** 1:1 DCM:Hexane
- Blow down to ~500ul
PCB/PBDE:
- Vortex **very** well.
- Transfer every last drop to a micro-vial (no rinses).
- Blow down **VERY GENTLY** to the mark. (Micro-vial should contain **30ul Toluene**, and the level should be marked with a **fine tipped black marker**.)
- Spike PCB and PBDE Injection Standards. Cap and Vortex **FV = 40ul**

DX:

- Carbon Column: - 4cm of well-packed chroma-carb.
  - Pre-elute Carbon with 5ml Hexane
  - Transfer with 3x1ml Hexane
  - F1 = **10ml** 1:1 DCM:Hexane (Archive)
  - After dripping has stopped Invert Column.
  - F2 = 14ml Toluene (DX)

- After the column has stopped dripping reduce the **F2** portion down to ~1/2ml.

- Vortex well, then transfer to a micro-vial without rinses.
- Blow the micro-vial down to just-dry.
- Spike with Injection Standard, Cap the micro-vial, and Vortex. **FV=10ul**

Approval of Deviation from Standard Method

(Batch Writer): _____

☐ Procedure does deviate from Standard Method. **Approved (Supervisor/Manager):** _____

Comments:

- Label and save all columns.

Reagent Lot Numbers:

Reagent	Lot#	Comment
Acetone	166330	
Hexane	106396	
DCM	106399	
Toluene	106301	
Nonane	ORG-WAKONON- 61	
1:1 DCM:HEX	ORG-DH2- 713	
Sodium Sulphate	ORG-SSU- 2706, 2722	
Acid Silica	ORG-ASI- 10264, 10267	
Neutral Silica	ORG-NSI- 2654, 2655	
Alumina	ORG-ALU- 515	
Chromacarb	ORG-CC- 315	

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Sample Calculation Report

Approved:	*K.BERG* --e-signature-- 15-Oct-2021

CS3 RRF Check

$$RRF = \frac{\text{Response of 2,3,7,8-TCDD}}{\text{Response of 13C12-2,3,7,8-TCDD}} \times \frac{\text{Concentration of 13C12-2,3,7,8-TCDD}}{\text{Concentration of TCDD}}$$

						Calculated Value	Value from TargetLynx
RRF	=	**146278.90** / **1301341.60**	x	**100** / **10**	=	**1.12**	**1.12**

Calculation of OCDD amount in L2625428-2

$$pg/g = \frac{\text{Response of OCDD}}{\text{Response of 13C12-OCDD}} \times \frac{\text{pg of 13C12-OCDD spiked}}{\text{Mean RRF} * \text{Sample Size}}$$

pg/g	=	**1142519.6** / **1134367.1**	x	**8000** / **1.07** * **4.27**	=	**1760**	**1760**	

Calculation of 13C12-2,3,7,8-TCDD Recovery in L2625428-2

$$\%\ Recovery = \frac{\text{Response of 13C12-2,3,7,8-TCDD}}{\text{Response of 13C12-1,2,3,4-TCDD}} \times \frac{\text{pg of 13C12-1,2,3,4-TCDD spiked} * 100}{\text{Mean RRF} * \text{Amount Spiked}}$$

% Recovery	=	**2965316.9** / **2204171.3**	x	**2000** * **100** / **1.18** * **2000**	=	**57**	**57**	**%**

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SECTION 7: SHIPPING/RECEIVING DOCUMENTS

Including:

- Airbills
- Chain-of-Custody Records
- Sample Log-in Sheet(s) - where applicable
- Others as listed below:

ALS Environmental Chain of Custody

1317 South 13th Avenue • Kelso, WA 98626 • 1-360-577-7222 • FAX 1-360-636-1068

ALS Contact: Sydney A. Wolf

Project Number: K2109142
Project Manager: Sydney A. Wolf
QAP: LAB QAP

Lab Code	Sample ID	# of Cont.	Matrix	Sample Date	Sample Time	Lab ID	Cl Biphen Cong 1668C	Dioxins Furans 1613B	Misc Out 1 None	Misc Out 2 None
K2109142-001	Final Effluent	3	Water	8/4/21		Burlington ALS	X	X		X
K2109142-002	Incin. Feed	1	Soil	8/4/21		Burlington ALS	X	X	X	

L2625428-COFC

Test Comments

Dioxins Furans - 1613B	K2109142-001,2	Burlington
Cl Biphen Cong - 1668C	K2109142-002	Burlington
Misc Out 1 - None	K2109142-002	PBDEs Burlington
Misc Out 2 - None	K2109142-001	PBDEs Burlington

Special Instructions/Comments
Please provide the electronic (PDF and EDD) report to the following e-mail address: ALKLS.Data@alsglobal.com.

H - Test is On Hold P - Test is Authorized for Prep Only

Turnaround Requirements
____ **RUSH** (Surcharges Apply)
PLEASE CIRCLE WORK DAYS
1 2 3 4 5
X **STANDARD**
Requested FAX Date: _____
Requested Report Date: 09/08/21

Report Requirements
____ I. Results Only
____ II. Results + QC Summaries
____ III. Results + QC and Calibration Summaries
X IV. Data Validation Report with Raw Data
PQL/MDL/J Y
EDD N

Invoice Information
PO# 51K2109142
Bill to

Relinquished By: ALS Canada Ltd. 8/9/21 Received By: Anne Boston L2625428-(2)DX DPKG 21M18 Airbill Number:

Page 19 of 2676 15:40 3.8°C

Sample Receiving Log

Date/Time Received	Client ID	Number/Description of Containers	Temp. on Receipt*	Condition of Samples, Courier & Tracking Information	Receiver's Initials	Date/Time Login Completed	Submission ID L2625333	Sample ID Range -1-17
10-Aug-24 15:40	ALS KELSO	44 x jars of sediment 28 x 1L amber bottles	3.8°C	Good FedEx 9340 2499 2668	NJ	11-Aug-2024 16:10	L2625409 L2625400 L2625392 L2625417 L2625428	-1-18 -1-13 -1-11 -1-5 -1.2

[redacted]

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SVOC DATA PACKAGE

Client Project Information

Project ID: K2109142
Project Description:
Contact: Sydney Wolf

ALSE Project Information

Project ID: ALS880
Contact: Claire Kocharakkal
Submission ID(s): L2625428-1

Final Package Review by: _____

Date Reviewed: 18-Nov-21

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SVOC DATA PACKAGE

SECTION 1: PROJECT NARRATIVE

ALSE Project Information

Project ID: ALS880

Contact: Claire Kocharakkal
Submission ID(s): L2625428-1

Client Project Information

Project ID: K2109142
Project Description:
Contact: Sydney Wolf

Analytical Method: Brominated Flame Retardants by EPA 1614

ALS Sample ID	Client Sample Descriptions	Matrix	Date Sampled	Date Received	Date Extracted	Date Analyzed
L2625428-1	FINAL EFFLUENT	Water	04-Aug-21	10-Aug-21	07-Sep-21	14-Sep-21
WG3603564-1	Method Blank	QC	n/a	n/a	07-Sep-21	14-Sep-21
WG3603564-2	Laboratory Control Sample	QC	n/a	n/a	07-Sep-21	14-Sep-21

Comments and Notes:
a) Sample Integrity:

The sample was received in good condition at 3.8 degrees C.

b) Instrumental Analysis:

The recoveries of some targets are above the method control limit for the calibration verification standards (independent source: CVSs). Many are cases where the relative response factors have been derived from an initial calibration that contains two coeluting targets, and the CVS contains only one target. For BDE-85 and BDE-183, the reported results may be elevated. BDE-156 has not been detected in the sample. The recovery of BDE-197 is elevated due to a coeluting non-targeted BDE in the CVS. Sample data for BDE-197 are not expected to be biased.

The BDE-209 result for the laboratory control sample (LCS) has been reported from the analysis of an extract that has received additional laboratory preparation in order to fully recover this target.

I certify that this data package is in compliance with the terms and condition of the contract , both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this data package (hardcopy and/or electronic version) has been authorized by the Laboratory Manager or his designee, as verified by the following signature.

Steve Kennedy, Technical Supervisor

18-Nov-21
Date

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SVOC DATA PACKAGE

SECTION 2: DATA SUMMARY REPORT

1435 Norjohn Court, Unit 1, Burlington, ON, Canada L7L 0E6
Phone: 905-331-3111, FAX: 905-331-4567

Certificate of Analysis

ALS Project Contact:	Claire Kocharakkal	**Client Name:**	ALS Environmental - Kelso
ALS Project ID:	ALS880	**Client Address:**	1317 South 13th Avenue
ALS WO#:	L2625428-1		Kelso, WA 98626
Date of Report	18-Nov-21		USA
Date of Sample Receipt	10-Aug-21	**Client Contact:**	Sydney Wolf
		Client Project ID:	K2109142

COMMENTS: **Brominated Flame Retardants by EPA 1614**

The recoveries of some targets are above the method control limit for the calibration verification standards (independent source: CVSs). Many are cases where the relative response factors have been derived from an initial calibration that contains two coeluting targets, and the CVS contains only one target. For BDE-85 and BDE-183, the reported results may be elevated. BDE-156 has not been detected in the sample. The recovery of BDE-197 is elevated due to a coeluting non-targeted BDE in the CVS. Sample data for BDE-197 are not expected to be biased.

The BDE-209 result for the laboratory control sample (LCS) has been reported from the analysis of an extract that has received additional laboratory preparation in order to fully recover this target.

Certified by:

Steve Kennedy
Technical Supervisor

Results in this certificate relate only to the samples as submitted to the laboratory.
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Sample Analysis Summary Report

Sample Name	FINAL EFFLUENT
ALS Sample ID	L2625428-1
Sample Size	1.10
Sample size units	L
Percent Moisture	n/a
Sample Matrix	Water
Sampling Date	4-Aug-21
Extraction Date	7-Sep-21

Target Analytes	pg/L
BDE 10	<0.64
BDE 7	<0.63
BDE 8/11	<0.44
BDE 12/13	7.10
BDE 15	<0.32
BDE 30	<2.3
BDE 32	<1.7
BDE 17/25	39.8
BDE 28/33	143
BDE 35	<1.6
BDE 37	3.25
HBB	4.73
BDE 75	10.1
BDE 51	14.7
BDE 49	154
BDE 71	11.4
BDE 47	8200
BDE 79	15.3
BDE 66	125
BDE 77	<1.7
BDE 100	1490
BDE 119/120	31.6
BDE 99	7940
BDE 116	<3.6
BDE 83	<3.2
BDE 118	<16
BDE 85	277
BDE 126	<1.6
BDE 105	<2.8
BDE 155	<21
BDE 154	450
BDE 153	513
BDE 140	<13
BDE 138/166	81.0
BDE 156	<9.6
BDE 128	<8.4
BDE 184	<1.5
BDE 183	69.5
BDE 191	<3.6
BDE 181	<3.5
BDE 190	<5.2
BDE 197	19.9
BDE 203	27.9
BDE 196	<18
BDE 208	56.6
BDE 207	76.2
BDE 206	147
BDE 209	1300

PBDE Homologue Group Totals (Sum of detected PBDEs including EMPCs)	pg/L
Di BDE	7.10
Tri BDE	186
Tetra BDE	8530
Penta BDE	9750
Hexa BDE	1080
Hepta BDE	69.5
Octa BDE	65.8
Nona BDE	280
Deca BDE	1300
Total PBDEs	21300

Extraction Standards	% Rec
13C12 BDE 15	42
13C12 BDE 28	53
13C6 HBB	54
13C12 BDE 47	59
13C12 BDE 77	69
13C12 BDE 100	50
13C12 BDE 99	56
13C12 BDE 126	64
13C12 BDE 154	52
13C12 BDE 153	60
13C12 BDE 183	52
13C12 BDE 197	58
13C12 BDE 207	56
13C12 BDE 209	66

Cleanup Standard	
13C12 BDE 138 Cleanup	71

ALS Life Sciences

Quality Control Summary Report

Sample Name	Method Blank	Laboratory Control Sample
ALS Sample ID	WG3603564-1	WG3603564-2
Sample Size	1.00	1
Sample size units	L	n/a
Percent Moisture	n/a	n/a
Sample Matrix	QC	QC
Sampling Date	n/a	n/a
Extraction Date	7-Sep-21	7-Sep-21
Target Analytes	**pg/L**	**% Rec**
BDE 10	<0.73	12
BDE 7	<0.72	29
BDE 8/11	<0.50	92
BDE 12/13	<0.44	123
BDE 15	<0.37	98
BDE 30	<1.9	38
BDE 32	<1.4	112
BDE 17/25	<1.8	102
BDE 28/33	<1.8	99
BDE 35	<1.3	92
BDE 37	<1.3	88
HBB	2.55	96
BDE 75	<0.84	114
BDE 51	<0.71	113
BDE 49	<1.1	92
BDE 71	<1.1	101
BDE 47	9.44	101
BDE 79	<0.71	126
BDE 66	<1.2	132
BDE 77	<0.75	89
BDE 100	1.77	103
BDE 119/120	<2.0	106
BDE 99	<8.6	94
BDE 116	<3.0	58
BDE 83	<2.7	100
BDE 118	<2.3	101
BDE 85	<2.0	97
BDE 126	<1.4	104
BDE 105	<2.3	95
BDE 155	<1.2	101
BDE 154	<1.5	101
BDE 153	<3.3	93
BDE 140	<2.9	100
BDE 138/166	<5.3	81
BDE 156	<8.3	62
BDE 128	<7.2	76
BDE 184	<1.2	116
BDE 183	<1.8	104
BDE 191	<3.0	102
BDE 181	<2.9	74
BDE 190	<4.3	53
BDE 197	<3.3	111
BDE 203	<4.5	82
BDE 196	<3.9	80
BDE 208	<7.0	141
BDE 207	<8.5	113
BDE 206	8.35	91
BDE 209	53.3	101
PBDE Homologue Group Totals (Sum of detected PBDEs including EMPCs)	**pg/L**	
Di BDE	<0.37	
Tri BDE	<1.3	
Tetra BDE	9.44	
Penta BDE	10.4	
Hexa BDE	<1.2	
Hepta BDE	<1.2	
Octa BDE	<3.3	
Nona BDE	16.9	
Deca BDE	53.3	
Total PBDEs	90.0	
Extraction Standards	**% Rec**	**% Rec**
13C12 BDE 15	41	46
13C12 BDE 28	56	53
13C6 HBB	63	58
13C12 BDE 47	62	56
13C12 BDE 77	82	66
13C12 BDE 100	62	78
13C12 BDE 99	64	72
13C12 BDE 126	76	60
13C12 BDE 154	62	76
13C12 BDE 153	71	68
13C12 BDE 183	68	94
13C12 BDE 197	61	56
13C12 BDE 207	75	94
13C12 BDE 209	67	36
Cleanup Standard		
13C12 BDE 138 Cleanup	82	91

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Continuing Calibration Summary Report

Sample Name	CCV	CCV	CCV	CCV	CCV
ALS Sample ID	H10-21-CCV-0123	H10-21-CCV-0125	H10-21-CCV-0126	H10-21-RS2-0123	H10-21-RS3-0123
Sample Size	1	1	1	1	1
Sample size units	n/a	n/a	n/a	n/a	n/a
Percent Moisture	n/a	n/a	n/a	n/a	n/a
Sample Matrix	QC	QC	QC	QC	QC
Sampling Date	n/a	n/a	n/a	n/a	n/a
Extraction Date	n/a	n/a	n/a	n/a	n/a
Target Analytes	**% Rec**	**% Rec**	**% Rec**	**% Rec**	**% Rec**
BDE 10	118	105	110	117	
BDE 7	116	105	109	130	
BDE 8/11	111	104	107		
BDE 12/13	110	103	106		
BDE 15	104	103	104	116	
BDE 30	116	105	114	117	
BDE 32	114	106	113		
BDE 17/25	111	105	113	148	137
BDE 37	108	101	107		
PBEB	124	112	116	113	
PBB 52	119	114	118		
HBB	104	104	104	107	
BDE 75	105	101	103		
BDE 51	105	108	105		
BDE 49	106	108	102	110	
BDE 71	111	108	114	118	111
BDE 47	102	106	107	119	113
BDE 66	103	108	113	104	112
BDE 77	101	107	100	117	
PBB 101	96	101	94		
BDE 100	105	105	108	121	112
BDE 119/120	104	103	104	151	
BDE 99	104	106	105	121	116
BDE 116	101	96	101		
BDE 83	104	99	104		
BDE 118	106	99	104		
BDE 126	110	107	107	123	
BDE 105	106	99	112		
PBB 153	105	101	100	108	
BDE 155	105	105	101		
BDE 154	103	106	105	112	105
BDE 153	102	103	104	107	98
BDE 140	113	102	110	114	
BDE 138/166	107	99	111	145	122
BDE 156	117	98	113	237	
BDE 128	122	96	114		
BDE 184	104	98	101	108	
BDE 183	100	101	104	137	114
BDE 181	107	90	101		
BDE 190	103	86	104		
PBB 180	100	98	99		
BDE 203	105	84	99	94	
BDE 196	103	90	100	96	
PBB 194	101	89	102		
BDE 206	116	105	123	123	
PBB 209	120	79	109		
BDE 209	100	96	101	116	92
Extraction Standards	**% Rec**	**% Rec**	**% Rec**	**% Rec**	**% Rec**
13C12 BDE 3					
13C12 BDE 15	104	91	92	81	89
13C12 BDE 28	100	95	90	89	95
13C6 HBB	87	85	79	85	82
13C12 BDE 47	100	96	93	104	100
13C12 BDE 77	103	98	99	107	96
13C12 BDE 100	93	99	90	81	101
13C12 BDE 99	94	98	95	87	102
13C12 BDE 126	94	98	101	92	88
13C12 BDE 154	86	97	89	80	96
13C12 BDE 153	94	99	98	92	97
13C12 BDE 183	83	100	86	78	106
13C12 BDE 197	93	92	85	95	90
13C12 BDE 207	89	98	89	98	96
13C12 BDE 209	121	72	121	93	105
Cleanup Standard					
13C12 BDE 138 Cleanup	99	100	102	95	95

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Continuing Calibration Summary Report

Sample Name	CCV	CCV	CCV	CCV	CCV
ALS Sample ID	H9-21-RS#2-009	H9-21-RS#3-009	H9-21-CCV-779	H9-21-CCV-780	H9-21-CCV-782
Sample Size	1	1	1	1	1
Sample size units	n/a	n/a	n/a	n/a	n/a
Percent Moisture	n/a	n/a	n/a	n/a	n/a
Sample Matrix	QC	QC	QC	QC	QC
Sampling Date	n/a	n/a	n/a	n/a	n/a
Extraction Date	n/a	n/a	n/a	n/a	n/a
Target Analytes	**% Rec**	**% Rec**	**% Rec**	**% Rec**	**% Rec**
BDE 10	120		103	100	104
BDE 7	125		96	101	104
BDE 8/11			98	104	106
BDE 12/13			100	106	109
BDE 15	117		102	105	109
BDE 30	121		106	106	106
BDE 32			102	105	107
BDE 17/25	135	132	102	104	106
BDE 28/33	146	133	103	105	106
BDE 35			94	109	110
BDE 37			93	111	111
HBB	101		100	101	101
BDE 75			108	105	96
BDE 51			114	104	114
BDE 49	104		109	104	107
BDE 71	116	101	114	109	109
BDE 47	112	107	102	105	103
BDE 79			105	105	104
BDE 66	99	102	102	106	108
BDE 77	109		103	106	106
BDE 100	114	105	102	104	104
BDE 119/120	151		101	101	102
BDE 99	115	110	103	103	104
BDE 116			94	96	95
BDE 83			101	98	98
BDE 118			97	106	106
BDE 85	117	107	93	105	101
BDE 126	111		101	104	105
BDE 105			94	109	107
BDE 155			105	97	98
BDE 154	109	100	99	102	102
BDE 153	105	95	102	102	101
BDE 140	100		93	110	109
BDE 138/166	118	120	51	111	111
BDE 156	156		81	118	112
BDE 128			83	123	115
BDE 184	107		99	98	99
BDE 183	131	116	102	103	103
BDE 191	102		91	103	99
BDE 181			90	99	93
BDE 190			88	98	98
BDE 197	110		102	102	102
BDE 203	88		87	100	90
BDE 196	92		91	105	101
BDE 208	109		85	99	93
BDE 207	117		103	99	99
BDE 206	108		108	111	108
BDE 209	110	95	101	102	101
Extraction Standards	**% Rec**	**% Rec**	**% Rec**	**% Rec**	**% Rec**
13C12 BDE 15	113	97	130	95	103
13C12 BDE 28	105	97	115	96	100
13C6 HBB	94	92	109	87	87
13C12 BDE 47	106	103	99	96	97
13C12 BDE 77	103	100	96	102	103
13C12 BDE 100	105	108	107	92	98
13C12 BDE 99	99	103	103	97	102
13C12 BDE 126	91	91	100	103	106
13C12 BDE 154	96	96	107	84	86
13C12 BDE 153	90	95	96	100	99
13C12 BDE 183	91	105	105	88	92
13C12 BDE 197	108	96	106	91	91
13C12 BDE 207	104	96	92	92	95
13C12 BDE 209	95	121	102	99	95
Cleanup Standard					
13C12 BDE 138 Cleanup	86	93	93	104	103

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Sample Analysis Report

Sample Name	**FINAL EFFLUENT**	Sampling Date	4-Aug-21		
ALS Sample ID	L2625428-1	Extraction Date	7-Sep-21		Approved:
Analysis Method	EPA 1614	Sample Size	1.10	L	*Ella Gdyczynski*
Analysis Type	Sample	Percent Moisture	n/a		--e-signature--
Sample Matrix	Water	Split Ratio	2		15-Sep-2021

Run Information	**Run 1**
Filename	10-210913B17
Run Date	14-Sep-21 02:30
Final Volume	40 uL
Dilution Factor	1
Analysis Units	pg/L
Instrument - Column	HRMS-10 DB5US1450812

Target Analytes	**Ret. Time**	**Conc. pg/L**	**EDL pg/L**	**Flags**	**EMPC pg/L**	**LQL**
BDE 10	NotFnd	<0.64	0.64	U		73
BDE 7	NotFnd	<0.63	0.63	U		73
BDE 8/11	NotFnd	<0.44	0.44	U		150
BDE 12/13	7.13	7.10	0.38	J		150
BDE 15	NotFnd	<0.32	0.32	U		73
BDE 30	NotFnd	<2.3	2.3	U		73
BDE 32	NotFnd	<1.7	1.7	U		73
BDE 17/25	8.44	39.8	2.2	J		150
BDE 28/33	8.67	143	2.1	J		150
BDE 35	NotFnd	<1.6	1.6	U		73
BDE 37	9.01	3.25	1.6	M,J		73
HBB	10.01	4.73	0.69	M,J,B		73
BDE 75	10.06	10.1	1.9	M,J		73
BDE 51	10.12	14.7	1.6	M,J		73
BDE 49	10.22	154	2.5			73
BDE 71	10.28	11.4	2.4	J		73
BDE 47	10.56	8200	1.8	M		73
BDE 79	10.69	15.3	1.6	M,J		73
BDE 66	10.84	125	2.7			73
BDE 77	NotFnd	<1.7	1.7	U		73
BDE 100	12.20	1490	1.1			110
BDE 119/120	12.30	31.6	2.3	J		110
BDE 99	12.69	7940	1.6	M		110
BDE 116	NotFnd	<3.6	3.6	U		110
BDE 83	NotFnd	<3.2	3.2	U		110
BDE 118	13.10	<16	2.8	M,J,R	16	110
BDE 85	13.60	277	2.4	M		110
BDE 126	NotFnd	<1.6	1.6	U		110
BDE 105	NotFnd	<2.8	2.8	U		110
BDE 155	13.76	<21	0.99	M,J,R	21	150
BDE 154	14.13	450	1.2	M		150
BDE 153	14.87	513	3.8	M		150
BDE 140	15.33	<13	3.4	M,J,R	13	150
BDE 138/166	15.83	81.0	6.2	M,J		290
BDE 156	NotFnd	<9.6	9.6	U		150
BDE 128	NotFnd	<8.4	8.4	U		150
BDE 184	NotFnd	<1.5	1.5	U		180
BDE 183	17.01	69.5	2.2	M,J		180
BDE 191	NotFnd	<3.6	3.6	U		180
BDE 181	NotFnd	<3.5	3.5	U		180
BDE 190	NotFnd	<5.2	5.2	U		180
BDE 197	19.49	19.9	2.7	J		180
BDE 203	19.75	27.9	3.7	M,J		180
BDE 196	19.89	<18	3.3	M,J,R	18	180
BDE 208	21.23	56.6	5.4	J		360
BDE 207	21.34	76.2	4.6	M,J		360
BDE 206	21.61	147	6.1	J		360
BDE 209	23.27	1300	6.4			360

Extraction Standards	**pg**		**% Rec**	**Limits**
13C12 BDE 15	2000	7.12	42	25-150
13C12 BDE 28	2000	8.66	53	25-150
13C6 HBB	2000	10.00	54	25-150
13C12 BDE 47	2000	10.56	59	25-150
13C12 BDE 77	2000	11.31	69	25-150
13C12 BDE 100	2000	12.18	50	25-150
13C12 BDE 99	2000	12.69	56	25-150
13C12 BDE 126	2000	13.76	64	25-150
13C12 BDE 154	2000	14.13	52	25-150
13C12 BDE 153	2000	14.87	60	25-150
13C12 BDE 183	2000	17.00	52	25-150
13C12 BDE 197	4000	19.48	58	25-150
13C12 BDE 207	10000	21.34	56	25-150
13C12 BDE 209	10000	23.26	66	20-200

Cleanup Standard	**pg**			
13C12 BDE 138 Cleanup	2000	15.82	71	30-135

EDL	Indicates the Estimated Detection Limit, based on the measured background noise for this target in this sample.
LQL	Lower Quantification Limit, based on the lowest calibration level corrected for sample size, splits and dilutions.
M	Indicates that a peak has been manually integrated.
U	Indicates that this compound was not detected above the EDL.
J	Indicates that a target analyte was detected below the calibrated range.
R	Indicates that the ion abundance ratio for this compound did not meet the acceptance criterion.
B	Indicates that this target was detected in the blank at greater than 10% of the sample concentration.
EMPC	Estimated Maximum Possible Concentration – elevated detection limit due to interference or positive id criterion failure

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SVOC DATA PACKAGE

SECTION 3: METHOD SUMMARY

Brominated Flame Retardants METHOD SUMMARY
Method EPA 1614

Introduction:

This summary is to provide ALSE Burlington PBDE method details in order to provide persons reviewing or validating this data package sufficient information to re-construct the sample calculation, data verification and review. It incorporates the analysis of various brominated flame retardants, primarily polybrominated diphenyl ethers, by EPA method 1614. Deviations from this reference method are documented in ALS Standard Operating Procedures (available upon request) and this Method Summary.

Any deviations to what is listed herein or in the ALS Standard Operating Procedures would be listed in the project narrative.

To avoid the confusion and conflicting nomenclature within the performance based methods, we have defined the labeled standards in terms relating to the time of addition to the sample or extract. Therefore;

The Field or Sampling Standards (where used) are added prior to field sampling
The Extraction Standards are added prior to extraction
The Clean-up Standards (where used) are added prior to extract clean-up
The Injection Standards are added prior to extract injection.

Additional method information, such as Instrumental Descriptors, is documented in ALS Standard Operating Procedures and available upon request.

Calibration Standard Levels:

Table 1		CS1	CS2	CS3	CS4	CS5
Natives	BDE-1	1	4	20	80	300
	BDE-2	1	4	20	80	300
	BDE-3	1	4	20	80	300
	BDE-10	1	4	20	80	300
	BDE-7	1	4	20	80	300
	BDE-8/BDE-11	1	4	20	80	300
	BDE-12/BDE-13	1	4	20	80	300
	BDE-15	1	4	20	80	300
	BDE-30	1	4	20	80	300
	BDE-32	1	4	20	80	300
	BDE-17/BDE-25	1	4	20	80	300
	BDE-28/BDE-33	1	4	20	80	300
	BDE-35	1	4	20	80	300
	BDE-37	1	4	20	80	300
	PBEB	1	4	20	80	300
	PBB-52	1	4	20	80	300
	HBB	1	4	20	80	300
	BDE-75	1	4	20	80	300
	BDE-51	1	4	20	80	300
	BDE-49	1	4	20	80	300
	BDE-71	1	4	20	80	300
	BDE-47	1	4	20	80	300
	BDE-79	1	4	20	80	300
	BDE-66	1	4	20	80	300
	BDE-77	1	4	20	80	300
	PBB-101	2	8	40	160	600
	BDE-100	1.5	6	30	120	450
	BDE-119/BDE-120	1.5	6	30	120	450
	BDE-99	1.5	6	30	120	450
	BDE-116	1.5	6	30	120	450
	BDE-83	1.5	6	30	120	450
	BDE-118	1.5	6	30	120	450
	BDE-85	1.5	6	30	120	450
	BDE-126	1.5	6	30	120	450
	BDE-105	1.5	6	30	120	450
	PBB-153	2	8	40	160	600
	BDE-155	2	8	40	160	600
	BDE-154	2	8	40	160	600
	BDE-153	2	8	40	160	600
	BDE-140	2	8	40	160	600
	BDE-138/BDE-166	2	8	40	160	600
	BDE-156	2	8	40	160	600
	BDE-128	2	8	40	160	600
	BDE-184	2.5	10	50	200	750
	BDE-183	2.5	10	50	200	750
	BDE-191	2.5	10	50	200	750
	BDE-181	2.5	10	50	200	750
	BDE-190	2.5	10	50	200	750
	PBB-180	2	8	40	160	600
	BDE-197	2.5	10	50	200	750
	BDE-203	2.5	10	50	200	750
	BDE-196	2.5	10	50	200	750
	PBB-194	2	8	40	160	600
	BDE-208	5	20	100	400	1500
	BDE-207	5	20	100	400	1500
	PBB-206	5	20	100	400	1500
	PBB-209	5	20	100	400	1500
	BDE-206	5	20	100	400	1500
	BDE-209	5	20	100	400	1500
	DBDPE	10	40	200	800	3000
	BTBPE	2	8	40	160	600

Extraction Standards	13C12-BDE-3	50	50	50	50	50
	13C12-BDE-15	50	50	50	50	50
	13C12-BDE-28	50	50	50	50	50
	13C6-HBB	50	50	50	50	50
	13C12-BDE-47	50	50	50	50	50
	13C12-BDE-77	50	50	50	50	50
	13C12-BDE-100	50	50	50	50	50
	13C12-BDE-99	50	50	50	50	50
	13C12-BDE-126	50	50	50	50	50
	13C12-BDE-154	50	50	50	50	50
	13C12-BDE-153	50	50	50	50	50
	13C12-BDE-183	50	50	50	50	50
	13C12-BDE-197	100	100	100	100	100
	13C12-BDE-207	250	250	250	250	250
	13C12-BDE-209	250	250	250	250	250
	13C14-DBDPE	500	500	500	500	500
	13C12-BTBPE	50	50	50	50	50
Cleanup Standard	13C12-BDE-138	50	50	50	50	50
Injection Standards	13C12-BDE-79	50	50	50	50	50
	13C12-BDE-139	50	50	50	50	50
	13C12-BDE-180	50	50	50	50	50
	13C12-BDE-206	250	250	250	250	250

Calibration and Quality Control Limits

The calibration and QC Sample control limits are presented in Table 2 below. For the lowest standard used for initial calibration, and for each calibration verification CS3, the signal to noise ratio for each ion for both labelled and non-labelled analytes of primary interest* must be greater than or equal to 10:1

		Calibration		Samples and QC Samples	
		Initial Cal. %RSD	Cal. Ver. %Exp	LCS % Rec	Samples % Rec
Natives	BDE-1	20	70-130	NR-150	
	BDE-2	20	70-130	NR-150	
	BDE-3	20	70-130	NR-150	
	BDE-10	20	70-130	5-130	
	BDE-7	20	70-130	5-130	
	BDE-8/BDE-11	20	70-130	50-150	
	BDE-12/BDE-13	20	70-130	5-130	
	BDE-15	20	70-130	50-150	
	BDE-30	20	70-130	5-130	
	BDE-32	20	70-130	50-150	
	BDE-17/BDE-25	20	70-130	50-150	
	BDE-28/BDE-33	20	70-130	50-150	
	BDE-35	20	70-130	50-150	
	BDE-37	20	70-130	50-150	
	PBEB	20	70-130	50-150	
	PBB-52	20	70-130	50-150	
	HBB	20	70-130	50-150	
	BDE-75	20	70-130	50-150	
	BDE-51	20	70-130	50-150	
	BDE-49	20	70-130	50-150	
	BDE-71	20	70-130	50-150	
	BDE-47	20	70-130	50-150	
	BDE-79	20	70-130	50-150	
	BDE-66	20	70-130	50-150	
	BDE-77	20	70-130	50-150	
	PBB-101	20	70-130	50-150	
	BDE-100	20	70-130	50-150	
	BDE-119/BDE-120	20	70-130	50-150	
	BDE-99	20	70-130	50-150	
	BDE-116	20	70-130	40-140	
	BDE-83	20	70-130	50-150	
	BDE-118	20	70-130	50-150	
	BDE-85	20	70-130	50-150	
	BDE-126	20	70-130	50-150	
	BDE-105	20	70-130	50-150	
	PBB-153	20	70-130	50-150	
	BDE-155	20	70-130	50-150	
	BDE-154	20	70-130	50-150	
	BDE-153	20	70-130	50-150	
	BDE-140	20	70-130	50-150	
	BDE-138/BDE-166	20	70-130	50-150	
	BDE-156	20	70-130	50-150	
	BDE-128	20	70-130	50-150	
	BDE-184	20	70-130	50-150	
	BDE-183	20	70-130	50-150	
	BDE-191	20	70-130	50-150	
	BDE-181	20	70-130	50-150	
	BDE-190	20	70-130	50-150	
	PBB-180	20	70-130	50-150	
	BDE-197	20	70-130	50-150	
	BDE-203	20	70-130	50-150	
	BDE-196	20	70-130	50-150	
	PBB-194	20	70-130	50-150	
	BDE-208	20	70-130	50-150	
	BDE-207	20	70-130	50-150	
	PBB-206	20	70-130	50-150	
	PBB-209	20	50-200	40-200	
	BDE-206	20	50-200	40-200	
	BDE-209	20	50-200	40-200	
	DBDPE	20	50-200	40-200	
	BTBPE	20	70-130	50-150	
Extraction Standards	13C12-BDE-3	20	50-150	25-150	25-150
	13C12-BDE-15	20	50-150	25-150	25-150
	13C12-BDE-28	20	50-150	30-140	25-150
	13C6-HBB	20	50-150	30-140	25-150
	13C12-BDE-47	20	50-150	30-140	25-150
	13C12-BDE-77	20	50-150	30-140	25-150
	13C12-BDE-100	20	50-150	30-140	25-150
	13C12-BDE-99	20	50-150	30-140	25-150
	13C12-BDE-126	20	50-150	30-140	25-150
	13C12-BDE-154	20	50-150	30-140	25-150
	13C12-BDE-153	20	50-150	30-140	25-150
	13C12-BDE-183	20	50-150	30-140	25-150
	13C12-BDE-197	20	50-150	30-140	25-150
	13C12-BDE-207	20	50-150	30-140	25-150
	13C12-BDE-209	20	25-200	20-200	20-200
	13C14-DBDPE	20	25-200	5-200	5-200
	13C12-BTBPE	20	50-150	15-150	15-150
Cleanup Standard	13C12-BDE-138	20	60-130	40-125	30-135

* - BDE's of primary interest are those listed as such in EPA 1614 and according to that method are the only required targets for the multipoint calibration. They include BDE-28, BDE-47, BDE-99, BDE-100, BDE-153, BDE-154, BDE-183 and BDE-209.

Reporting Limits:

Unless indicated in the otherwise, the PBDE data is reported down to 2.5:1 signal to noise for each isomer grouping for each extract injection. This is consistent to SW846 8290 defined protocols (i.e. EDL or Estimated Detection Limit) and is commonly applied throughout the industry for performance-based HRMS methods including the one in this summary.

Method Blank:

If any BDE other than BDE-28, BDE-47, BDE-99, BDE-100 or BDE-209 is found in the blank at greater than the ML (minimum level) published in the reference method (EPA-1614 Table 1.), or one-third the regulatory compliance limit (whichever is greater); or if any potentially interfering compound is found in the blank at the minimum level for each BDE in EPA-1614 Table 1 (assuming a relative response factor of one relative to the quantitation reference at that level of bromination for potentially interfering compound; ie. a compound not listed in this method), analysis of samples must be halted until the sample batch is re-extracted and the extracts re-analyzed, and the blank associated with the sample batch shows no evidence of contamination at those levels. For BDE-28, -47, -99, -100 and -209, blanks at 5x the method MLs are acceptable.

MS/MSD:

The % relative difference between the MS and MSD spike recoveries should be less than or equal to 25%.

Instrument/Run Performance Criteria:

1. Elution windows must be verified at the beginning of each 12-hour run sequence relative to the application note
2. GC performance criteria: there must be a maximum valley height 40% between BDE-49 and BDE-71 (relative to th shorter of the two compounds)
3. The tailing factor (see Figure 13 in EPA Method 625; 40 CFR 136, Appendix A) for congener BDE-99L in the CS-3 standard must be less than 3.00.
4. At the beginning of and just following the end of each 12 hour run sequence, the instrument must be checked to demonstrate a resolution of 5,000 for each quantification window.
5. The RT in the daily CS3 verification standards must be within 15 seconds of the CS3 in the initial calibration run.
6. The maximum time between scans within a descriptor is 1 second.
7. Lock mass deviations to the average response must be less than or equal 20%.

Laboratory Duplicates:

The % relative difference between duplicates should be less than or equal to 35% where the levels are within the calibrated range of the method (50% for nona and deca BDEs).

Analyte Identification Criteria:

1. Ion ratio must be within 15% of theoretical or within 10% of the most recent CS3.
2. The retention time (RT) of the peak maxima for each pair of quantification ions must be no more than 2 seconds (i.e. 2 scans) difference.
3. The retention time (RT) of the peak maxima of all native analytes must be within -1 to +3 seconds of the RT of corresponding $^{13}C_{12}$-labelled isomer of that injection run.
4. For those native analytes without a corresponding labelled isomer, the relative retention time (RRT) must be within 0.005 of the relative retention time observed in the daily CS3 run.

Table 3: Monitored Masses, Ion Abuncance Ratios, and Quantitation/RT References

Entry	Native Standard	Quantification Method	Quantification vs. Entry #:	Quantitation Ion	Confirmation Ion	Theoretical Ion Abundance ratio	Ion Abundance Ratio Tolerance
1	BDE-1	rel_int	62	247.9837	249.9816	1.03	0.15
2	BDE-2	rel_int	62	247.9837	249.9816	1.03	0.15
3	BDE-3	rel_int	62	247.9837	249.9816	1.03	0.15
4	BDE-10	rel_int	63	325.8942	327.8921	0.51	0.15
5	BDE-7	rel_int	63	325.8942	327.8921	0.51	0.15
6	BDE-8/BDE-11	rel_int	63	325.8942	327.8921	0.51	0.15
7	BDE-12/BDE-13	rel_int	63	325.8942	327.8921	0.51	0.15
8	BDE-15	rel_int	63	325.8942	327.8921	0.51	0.15
9	BDE-30	rel_int	64	405.8027	407.8002	1.03	0.15
10	BDE-32	rel_int	64	405.8027	407.8002	1.03	0.15
11	BDE-17/BDE-25	rel_int	64	405.8027	407.8002	1.03	0.15
12	BDE-28/BDE-33	rel_int	64	405.8027	407.8002	1.03	0.15
13	BDE-35	rel_int	64	405.8027	407.8002	1.03	0.15
14	BDE-37	rel_int	64	405.8027	407.8002	1.03	0.15
15	PBEB	rel_int	65	499.6267	501.6247	1.03	0.15
16	PBB-52	rel_int	65	469.7162	471.7142	1.53	0.15
17	HBB	rel_int	65	547.508	549.5059	0.41	0.15
18	BDE-75	rel_int	66, 67	483.7132	485.7111	0.7	0.15
19	BDE-51	rel_int	66, 67	483.7132	485.7111	0.7	0.15
20	BDE-49	rel_int	66, 67	483.7132	485.7111	0.7	0.15
21	BDE-71	rel_int	66, 67	483.7132	485.7111	0.7	0.15
22	BDE-47	rel_int	66	483.7132	485.7111	0.7	0.15
23	BDE-79	rel_int	66, 67	483.7132	485.7111	0.7	0.15
24	BDE-66	rel_int	66, 67	483.7132	485.7111	0.7	0.15
25	BDE-77	rel_int	67	483.7132	485.7111	0.7	0.15
26	PBB-101	rel_int	66, 67	547.6267	549.6247	1.03	0.15
27	BDE-100	rel_int	68	563.6216	565.6196	1.03	0.15
28	BDE-119/BDE-120	rel_int	68,69,70	563.6216	565.6196	1.03	0.15
29	BDE-99	rel_int	69	563.6216	565.6196	1.03	0.15
30	BDE-116	rel_int	68,69,70	563.6216	565.6196	1.03	0.15
31	BDE-83	rel_int	68,69,70	563.6216	565.6196	1.03	0.15
32	BDE-118	rel_int	68,69,70	563.6216	565.6196	1.03	0.15
33	BDE-85	rel_int	68,69,70	563.6216	565.6196	1.03	0.15
34	BDE-126	rel_int	70	563.6216	565.6196	1.03	0.15
35	BDE-105	rel_int	68,69,70	563.6216	565.6196	1.03	0.15
36	PBB-153	rel_int	71,72	627.5362	629.5331	1.37	0.15
37	BDE-155	rel_int	71,72	643.5301	645.5279	1.37	0.15
38	BDE-154	rel_int	71	643.5301	645.5279	1.37	0.15
39	BDE-153	rel_int	72	643.5302	645.528	1.37	0.15
40	BDE-140	rel_int	71,72	643.5302	645.528	1.37	0.15
41	BDE-138/BDE-166	rel_int	71,72	643.5302	645.528	1.37	0.15
42	BDE-156	rel_int	71,72	643.5302	645.528	1.37	0.15
43	BDE-128	rel_int	71,72	643.5302	645.528	1.37	0.15
44	BDE-184	rel_int	73	721.4406	723.4386	1.03	0.15
45	BDE-183	rel_int	73	721.4406	723.4386	1.03	0.15
46	BDE-191	rel_int	73	721.4406	723.4386	1.03	0.15
47	BDE-181	rel_int	73	721.4406	723.4386	1.03	0.15
48	BDE-190	rel_int	73	721.4406	723.4386	1.03	0.15
49	PBB-180	rel_int	73	705.4457	707.4436	1.03	0.15
50	BDE-197	rel_int	74	799.3511	801.3491	0.82	0.15
51	BDE-203	rel_int	74	799.3511	801.3491	0.82	0.15
52	BDE-196	rel_int	74	799.3511	801.3491	0.82	0.15
53	PBB-194	rel_int	74	785.3542	787.3521	1.28	0.15
54	BDE-208	rel_int	75	719.425	721.4229	1.03	0.15
55	BDE-207	rel_int	75	719.425	721.4229	1.03	0.15
56	BDE-206	rel_int	75	719.425	721.4229	1.03	0.15
57	PBB-206	rel_int	75	703.43	705.428	1.03	0.15
58	PBB-209	rel_int	75	783.3385	785.3365	1.28	0.15
59	BDE-209	rel_int	76	799.3334	801.3314	1.23	0.15
60	DBDPE	rel_int	77	484.6033	486.6012	1.03	0.15
61	BTBPE	rel_int	78	356.7948	358.7928	1.03	0.15
	Extraction Standard						
62	13C12-BDE-3	rel_int	80	260.0239	262.0219	1.03	0.15
63	13C12-BDE-15	rel_int	80	337.9344	339.9324	0.51	0.15
64	13C12-BDE-28	rel_int	80	417.8429	419.8409	1.03	0.15
65	13C6-HBB	rel_int	80	559.522	561.5199	2.57	0.15
66	13C12-BDE-47	rel_int	80	497.7514	499.7493	1.54	0.15
67	13C12-BDE-77	rel_int	80	497.7514	499.7493	1.54	0.15
68	13C12-BDE-100	rel_int	81	575.6619	577.6598	1.03	0.15
69	13C12-BDE-99	rel_int	81	575.6619	577.6598	1.03	0.15
70	13C12-BDE-126	rel_int	81	575.6619	577.6598	1.03	0.15
71	13C12-BDE-154	rel_int	81	655.5703	657.5682	1.37	0.15
72	13C12-BDE-153	rel_int	81	655.5704	657.5683	1.37	0.15
73	13C12-BDE-183	rel_int	82	733.4809	735.4788	1.03	0.15
74	13C12-BDE-197	rel_int	82	811.3914	813.3893	0.82	0.15
75	13C12-BDE-207	rel_int	83	731.4652	733.4632	1.03	0.15
76	13C12-BDE-209	rel_int	83	811.3737	813.3716	1.23	0.15
77	13C14-DBDPE	rel_int	83	983.2534	985.2514	0.86	0.15
78	13C12-BTBPE	rel_int	83	362.815	364.8129	1.03	0.15
	Cleanup Standard						
79	13C12-BDE-138	rel_int	81	655.5704	657.5683	1.37	0.15
	Injection Standard						
80	13C12-BDE-79	abs_int		497.7514	499.7493	1.54	0.15
81	13C12-BDE-139	abs_int		655.5704	657.5683	1.37	0.15
82	13C12-BDE-180	abs_int		733.4809	735.4788	1.03	0.15
83	13C12-BDE-206	abs_int		731.4652	733.4632	1.03	0.15

Data Calculations:

a) Analyte Concentrations:

The relative response factor of each target relative to the standard against which it is to be calculated is determined using the area responses of both quantification ions via equation 9.1.
In cases where a native target is calculated against an exact labelled analogue, the quantification will be considered to be by isotope dilution. In other cases, the quantification will be considered to be by internal standard.

$$RRF = \frac{(A1_t + A2_t)\ C_s}{(A1_s + A2_s)\ C_t} \qquad \text{Equ. 9.1}$$

Where,
$A1_t + A2_t$ = The areas of the two quantification ions for the target analyte
$A1_s + A2_s$ = The areas of the two quantification ions for the labelled compound against which the target analyte will be calculated.
C_t = The concentration in the calibration standard of the target analyte.
C_s = The concentration in the calibration standard of the labelled compound against which the target will be calculated.

For all analytes to be quantified and from the initial calibration series of standard injections, a table of RRFs is prepared. The relative standard deviation (%RSD, or the coefficient of variance) is checked to confirm that the appropriate method criteria has been met as listed in Table 3. The average of the five levels of standard for each analyte, RRF_{av} is applied for quantification of samples according to Equations 9.2 and 9.3 below.

$$\text{Amount in sample (ng)} = \frac{(A1_n + A2_n)\ Q_l}{(A1_l + A2_l)\ (RRF_{av})} \qquad \text{Equ. 9.2}$$

$$\text{Concentration in sample (ng/g or ng/L)} = \frac{(A1_n + A2_n)\ Q_l}{(A1_l + A2_l)\ (RRF_{av})\ (W_s)} \qquad \text{Equ. 9.3}$$

Where,
Q_l = The amount (pg) of labelled compound added to the sample
W_s = The weight (g) or volume (l) of sample

b) Extraction, Clean-up, and Sampling Standard Recovery Calculation:

The extraction, clean-up, and sampling standard recoveries are determined by Equation 9.4 below.

% Recovery = (Amount in sample)/(Amount added to sample) X 100 Equ. 9.4

c) Estimated Detection Limit

$$EDL = \frac{2.5 \times H_x \times Q_{es}}{H_{es} \times W \times RFF_{av}} \qquad \text{Equ. 9.5}$$

Where,
EDL = estimated detection limit for native targets
H_x = sum of the height of the noise level for each quantification ions for the unlabeled target
H_{es} = Sum of the heights of responses of both quantification ions for the labelled extraction standard.
W = weight of volume of sample
RRF_{av} = average relative response factor
Q_{es} = Amount of extraction standard added

Chromatogram Annotation Codes

All manually integrated peaks are expanded and reprinted with the following annotations:

* Analyst Initials	AA
* Date	YYMMDD
* integration code	CC

The Syntax is:	Example:
AAYYMMDDCC	SK111220MB

Code	Mnemonic	Description
MB	Manual Baseline	The peak was manually integrated because the initial baseline was determined incorrectly by the software
MS	Manual Split	The peak was manually integrated because the peak was incorrectly or not split by the software
MJ/MC	Manual Join/Manual Combine	The peak was manually integrated because the peak was split by the software and the peak should be integrated as a single peak
MA	Manual Add	The peak was manually integrated because the signal:noise ratio was judged to be >2.5
MD	Manual Delete	The peak was excluded because the signal:noise ratio was judged to be <2.5
MX	Manual Exclude	The peak was excluded due to an interference
MT	Manual Time	The peak retention time was manually chosen

The following explanatory annotation codes may appear on the chromatograms of peaks that have been reviewed:

Code	Mnemonic	Description
+	Detected Peak	A peak was detected at this mass and retention time that was above 2.5:1 signal to noise
<	Below Detection Limit	The signal at this mass and retention time was below 2.5:1 signal to noise
EMPC	Estimated Maximum Possible Concentration	The signal at this mass and retention time is an interference such that the target compound could not be confirmed
X-RT	Not Detected due to Retention Time non-conformance	The signal at this retention time could not be used to positively identify the target compound because of retention time non-conformance (apex of quantification and confirmation ions do not maximize within the same two seconds, or the retention time of the peak does not fall within the expected range with respect to its labeled analogue)
X-LOC	Not Detected due to interference from a higher level of chlorination	The signal at this retention time is attributable to a fragment from a co-eluting compound at a higher level of chlorination, and cannot be used to positively identify the target. The result is expressed as an Estimated Maximum Possible Concentration (EMPC)
X-DPE	Not Detected due to diphenyl ether interference	The signal at this retention time is attributable to interference from a chlorinated diphenyl ether, and cannot be used to positively identify the target. The result is expressed as an Estimated Maximum Possible Concentration (EMPC)
X-IF	Not Detected due to interference	The signal at this retention time is attributable to a co-eluting interference, and cannot be used to positively identify the target. The result is expressed as an Estimated Maximum Possible Concentration (EMPC)

1435 Norjohn Court, Unit 1, Burlington, ON, Canada L7L 0E6

SVOC DATA PACKAGE

SECTION 4: CALIBRATION DATA

Including:

for Multi-Point Calibration(s)

- Multi-Point Calibration Tables
- Individual Quantitation Reports

for Continuing Calibration(s)

- Individual Quantitation Reports

ALS Life Sciences

Calibration Summary Report

Calibration Level	Filename	Run Date
CS-1	10-210913B05	13-Sep-2021 19:32
CS-2	10-210913B04	13-Sep-2021 18:57
CS-3	10-210913B03	13-Sep-2021 18:23
CS-4	10-210913B07	13-Sep-2021 20:42
CS-5	10-210913B06	13-Sep-2021 20:07

Approved: *Ella Gdyczynski*
--e-signature--
15-Sep-2021

Relative Response Factors

Target Analytes	CS-1	CS-2	CS-3	CS-4	CS-5	Mean	% RSD
BDE 1	0.525	0.438	0.422	0.433	0.437	0.451	9%
BDE 2	0.622	0.658	0.668	0.659	0.707	0.663	5%
BDE 3	0.845	0.791	0.783	0.763	0.802	0.797	4%
BDE 10	0.391	0.404	0.430	0.459	0.458	0.428	7%
BDE 7	0.379	0.412	0.447	0.452	0.467	0.431	8%
BDE 8/11	0.547	0.600	0.632	0.645	0.668	0.618	8%
BDE 12/13	0.636	0.691	0.724	0.747	0.776	0.715	8%
BDE 15	0.756	0.834	0.883	0.868	0.897	0.848	7%
BDE 30	0.569	0.561	0.624	0.668	0.636	0.612	7%
BDE 32	0.735	0.797	0.874	0.889	0.891	0.837	8%
BDE 17/25	0.547	0.614	0.668	0.681	0.701	0.642	10%
BDE 28/33	0.578	0.646	0.697	0.703	0.719	0.669	9%
BDE 35	0.787	0.856	0.971	0.973	1.029	0.923	11%
BDE 37	0.792	0.852	0.966	0.976	1.031	0.923	11%
PBEB	1.041	1.121	1.255	1.389	1.445	1.250	14%
PBB 52	1.113	1.108	1.238	1.377	1.478	1.263	13%
HBB	0.922	0.991	1.090	1.104	1.129	1.047	8%
BDE 75	0.636	0.673	0.772	0.877	0.887	0.769	15%
BDE 51	0.790	0.856	0.927	1.011	0.978	0.912	10%
BDE 49	0.463	0.518	0.613	0.645	0.669	0.582	15%
BDE 71	0.526	0.524	0.583	0.681	0.672	0.597	13%
BDE 47	0.750	0.770	0.875	0.882	0.920	0.839	9%
BDE 79	0.761	0.867	0.967	0.976	0.976	0.909	10%
BDE 66	0.440	0.476	0.550	0.593	0.611	0.534	14%
BDE 77	0.628	0.726	0.819	0.874	0.912	0.792	15%
PBB 101	0.931	0.986	1.075	1.179	1.233	1.081	12%
BDE 100	0.624	0.702	0.809	0.825	0.855	0.763	13%
BDE 119/120	0.363	0.419	0.483	0.537	0.564	0.473	18%
BDE 99	0.694	0.759	0.863	0.891	0.912	0.824	11%
BDE 116	0.258	0.270	0.314	0.345	0.353	0.308	14%
BDE 83	0.280	0.311	0.367	0.384	0.395	0.347	14%
BDE 118	0.310	0.348	0.428	0.435	0.458	0.396	16%
BDE 85	0.371	0.396	0.472	0.495	0.552	0.457	16%
BDE 126	0.633	0.726	0.813	0.840	0.904	0.783	13%
BDE 105	0.286	0.345	0.400	0.456	0.511	0.400	22%
PBB 153	1.143	1.199	1.306	1.364	1.444	1.291	9%
BDE 155	1.390	1.536	1.645	1.707	1.732	1.602	9%
BDE 154	0.815	0.871	0.947	0.955	0.987	0.915	8%
BDE 153	0.977	1.058	1.211	1.260	1.291	1.159	12%
BDE 140	0.615	0.666	0.739	0.763	0.829	0.722	12%
BDE 138/166	0.323	0.354	0.409	0.422	0.484	0.398	16%
BDE 156	0.186	0.223	0.259	0.268	0.352	0.258	24%
BDE 128	0.218	0.251	0.295	0.310	0.398	0.294	23%
BDE 184	0.989	0.951	1.106	1.244	1.261	1.110	13%
BDE 183	0.666	0.655	0.774	0.813	0.827	0.747	11%
BDE 191	0.403	0.374	0.461	0.501	0.568	0.461	17%
BDE 181	0.381	0.401	0.475	0.511	0.571	0.468	17%
BDE 190	0.251	0.275	0.316	0.340	0.398	0.316	18%
PBB 180	0.573	0.594	0.704	0.774	0.812	0.691	15%
BDE 197	0.644	0.722	0.810	0.858	0.899	0.787	13%
BDE 203	0.485	0.472	0.573	0.619	0.713	0.572	17%
BDE 196	0.496	0.516	0.640	0.736	0.895	0.657	25%
PBB 194	0.367	0.378	0.473	0.596	0.742	0.511	31%
BDE 208	0.657	0.627	0.749	0.899	0.992	0.785	20%
BDE 207	0.772	0.799	0.950	1.011	1.014	0.909	13%
BDE 206	0.539	0.691	0.736	0.712	0.757	0.687	13%
PBB 206	0.295	0.236	0.293	0.357	0.378	0.312	18%
PBB 209	0.343	0.272	0.333	0.398	0.435	0.356	18%
BDE 209	0.830	0.853	0.964	1.054	1.127	0.966	13%
DBDPE	0.784	0.754	0.901	0.958	1.056	0.891	14%
Extraction Standards							
13C12 BDE 3	5.517	4.541	4.441	5.744	5.030	5.055	11%
13C12 BDE 15	2.841	2.575	2.599	2.994	2.778	2.757	6%
13C12 BDE 28	1.251	1.201	1.214	1.318	1.293	1.255	4%
13C6 HBB	0.924	0.912	0.907	0.907	0.868	0.904	2%
13C12 BDE 47	0.875	0.861	0.867	0.880	0.871	0.871	1%
13C12 BDE 77	0.889	0.923	0.943	0.899	0.935	0.918	3%
13C12 BDE 100	3.170	2.791	2.808	3.315	3.474	3.112	10%
13C12 BDE 99	1.733	1.655	1.699	1.937	2.099	1.825	10%
13C12 BDE 126	1.762	1.795	1.976	2.172	2.559	2.053	16%
13C12 BDE 154	2.242	2.163	2.365	2.766	3.034	2.514	15%
13C12 BDE 153	0.756	0.757	0.808	0.884	1.045	0.850	14%
13C12 BDE 183	2.028	1.865	1.901	2.272	2.502	2.114	13%
13C12 BDE 197	1.560	1.568	1.554	1.645	1.827	1.631	7%
13C12 BDE 207	1.304	1.247	1.313	1.393	1.384	1.328	5%
13C12 BDE 209	0.319	0.367	0.357	0.325	0.344	0.342	6%
13C14 DBDPE	0.225	0.321	0.298	0.214	0.219	0.255	20%
Cleanup Standard							
13C12 BDE 138 Cleanup	0.585	0.658	0.715	0.726	0.896	0.716	16%

ALS Life Sciences

Calibration Report

ALS Sample ID **H10-21-CS1-0123**
Analysis Method EPA 1614
Analysis Type Calibration

Filename	Inst #	Column	Run Date	Approved:	*Ella Gdyczynski*
10-210913B05	HRMS-10	Col#DB5#US1450812H	13-Sep-2021 19:32		--e-signature--
					15-Sep-2021

Target Analytes	Ret. Time	Ion Ratio	Concentration ng/mL	Response	RRF
BDE 1	4.89	0.81	1.00	2.21E+04	0.525
BDE 2	5	1.32	1.00	2.62E+04	0.622
BDE 3	5.11	1.05	1.00	3.55E+04	0.845
BDE 10	6.33	0.47	1.00	8.47E+03	0.391
BDE 7	6.71	0.47	1.00	8.20E+03	0.379
BDE 8/11	6.87	0.47	2.00	2.37E+04	0.547
BDE 12/13	6.99	0.50	2.00	2.75E+04	0.636
BDE 15	7.13	0.46	1.00	1.64E+04	0.756
BDE 30	7.83	1.11	1.00	5.43E+03	0.569
BDE 32	8.28	1.02	1.00	7.01E+03	0.735
BDE 17/25	8.44	0.99	2.00	1.04E+04	0.547
BDE 28/33	8.67	1.06	2.00	1.10E+04	0.578
BDE 35	8.83	1.03	1.00	7.50E+03	0.787
BDE 37	9.02	0.99	1.00	7.55E+03	0.792
PBEB	9.03	1.05	1.00	7.33E+03	1.041
PBB 52	9.13	1.46	1.00	7.84E+03	1.113
HBB	10.01	0.38	1.00	6.50E+03	0.922
BDE 75	10.06	0.73	1.00	4.28E+03	0.636
BDE 51	10.13	0.64	1.00	5.31E+03	0.790
BDE 49	10.23	0.61	1.00	3.11E+03	0.463
BDE 71	10.29	0.70	1.00	3.54E+03	0.526
BDE 47	10.57	0.67	1.00	5.00E+03	0.750
BDE 79	10.73	0.61	1.00	5.11E+03	0.761
BDE 66	10.85	0.79	1.00	2.96E+03	0.440
BDE 77	11.33	0.66	1.00	4.26E+03	0.628
PBB 101	11.46	1.08	2.00	1.25E+04	0.931
BDE 100	12.2	0.95	1.50	6.35E+03	0.624
BDE 119/120	12.37	0.91	3.00	5.19E+03	0.363
BDE 99	12.71	1.01	1.50	3.86E+03	0.694
BDE 116	12.85	1.01	1.50	1.84E+03	0.258
BDE 83	12.99	1.06	1.50	2.00E+03	0.280
BDE 118	13.12	0.91	1.50	2.21E+03	0.310
BDE 85	13.6	1.15	1.50	2.65E+03	0.371
BDE 126	13.76	1.15	1.50	3.59E+03	0.633
BDE 105	13.92	0.93	1.50	2.04E+03	0.286
PBB 153	14.1	1.43	2.00	7.34E+03	1.143
BDE 155	13.76	1.43	2.00	8.93E+03	1.390
BDE 154	14.15	1.40	2.00	7.82E+03	0.815
BDE 153	14.87	1.53	2.00	3.17E+03	0.977
BDE 140	15.33	1.47	2.00	3.95E+03	0.615
BDE 138/166	15.87	1.18	4.00	4.15E+03	0.323
BDE 156	16.2	1.50	2.00	1.20E+03	0.186
BDE 128	16.82	1.53	2.00	1.40E+03	0.218
BDE 184	16.64	0.92	2.50	4.30E+03	0.989
BDE 183	17.01	1.05	2.50	2.89E+03	0.666
BDE 191	17.57	1.03	2.50	1.75E+03	0.403
BDE 181	18.11	1.08	2.50	1.65E+03	0.381
BDE 190	18.27	1.12	2.50	1.09E+03	0.251
PBB 180	17.1	1.17	2.00	1.99E+03	0.573
BDE 197	19.49	0.83	2.50	2.15E+03	0.644
BDE 203	19.77	0.71	2.50	1.62E+03	0.485
BDE 196	19.89	0.84	2.50	1.66E+03	0.496
PBB 194	19.97	1.09	2.00	9.82E+02	0.367
BDE 208	21.23	1.03	5.00	3.39E+03	0.657
BDE 207	21.34	0.96	5.00	3.98E+03	0.772
BDE 206	21.61	0.95	5.00	2.78E+03	0.539
PBB 206	21.06	0.96	5.00	1.52E+03	0.295
PBB 209	21.97	1.09	5.00	1.76E+03	0.343
BDE 209	23.27	1.13	5.00	1.05E+03	0.830
DBDPE	24.65	0.95	10.00	1.39E+03	0.784
Extraction Standards					
13C12 BDE 3	5.1	0.97	50.00	2.10E+06	5.517
13C12 BDE 15	7.13	0.49	50.00	1.08E+06	2.841
13C12 BDE 28	8.67	1.02	50.00	4.77E+05	1.251
13C6 HBB	10	2.59	50.00	3.52E+05	0.924
13C12 BDE 47	10.56	1.52	50.00	3.33E+05	0.875
13C12 BDE 77	11.31	1.53	50.00	3.39E+05	0.889
13C12 BDE 100	12.2	1.02	50.00	3.40E+05	3.170
13C12 BDE 99	12.69	1.00	50.00	1.86E+05	1.733
13C12 BDE 126	13.76	1.02	50.00	1.89E+05	1.762
13C12 BDE 154	14.13	1.40	50.00	2.40E+05	2.242
13C12 BDE 153	14.87	1.42	50.00	8.10E+04	0.756
13C12 BDE 183	17	1.02	50.00	8.69E+04	2.028
13C12 BDE 197	19.48	0.81	100.00	1.34E+05	1.560
13C12 BDE 207	21.34	1.04	250.00	2.57E+05	1.304
13C12 BDE 209	23.26	1.29	250.00	6.30E+04	0.319
13C14 DBDPE	24.65	1.01	500.00	8.86E+04	0.225
Cleanup Standard					
13C12 BDE 138 Cleanup	15.82	1.37	50.00	6.27E+04	0.585
Labeled Injection Standards					
13C12-BDE-79 (IS)	10.72	1.47	50.00	3.81E+05	
13C12-BDE-139 (IS)	15.14	1.43	50.00	1.07E+05	
13C12-BDE-180 (IS)	17.88	1.05	50.00	4.29E+04	
13C12-BDE-206 (IS)	21.6	1.03	250.00	1.97E+05	

ALS Life Sciences

Calibration Report

ALS Sample ID **H10-21-CS2-0123**
Analysis Method EPA 1614
Analysis Type Calibration

Filename	Inst #	Column	Run Date	Approved:	*Ella Gdyczynski*
10-210913B04	HRMS-10	Col#DB5#US1450812H	13-Sep-2021 18:57		--e-signature--
					15-Sep-2021

Target Analytes	Ret. Time	Ion Ratio	Concentration ng/mL	Response	RRF
BDE 1	4.91	0.96	4.00	7.83E+04	0.438
BDE 2	5.01	0.97	4.00	1.18E+05	0.658
BDE 3	5.12	0.95	4.00	1.41E+05	0.791
BDE 10	6.33	0.47	4.00	4.09E+04	0.404
BDE 7	6.71	0.48	4.00	4.17E+04	0.412
BDE 8/11	6.88	0.48	8.00	1.22E+05	0.600
BDE 12/13	7	0.49	8.00	1.40E+05	0.691
BDE 15	7.14	0.49	4.00	8.45E+04	0.834
BDE 30	7.84	1.03	4.00	2.65E+04	0.561
BDE 32	8.28	1.00	4.00	3.76E+04	0.797
BDE 17/25	8.45	1.00	8.00	5.80E+04	0.614
BDE 28/33	8.68	1.01	8.00	6.10E+04	0.646
BDE 35	8.83	1.01	4.00	4.04E+04	0.856
BDE 37	9.02	1.03	4.00	4.03E+04	0.852
PBEB	9.03	1.07	4.00	4.02E+04	1.121
PBB 52	9.13	1.56	4.00	3.97E+04	1.108
HBB	10.01	0.40	4.00	3.56E+04	0.991
BDE 75	10.07	0.67	4.00	2.36E+04	0.673
BDE 51	10.13	0.66	4.00	3.00E+04	0.856
BDE 49	10.23	0.65	4.00	1.82E+04	0.518
BDE 71	10.31	0.68	4.00	1.84E+04	0.524
BDE 47	10.57	0.64	4.00	2.61E+04	0.770
BDE 79	10.73	0.64	4.00	3.04E+04	0.867
BDE 66	10.85	0.61	4.00	1.67E+04	0.476
BDE 77	11.33	0.70	4.00	2.63E+04	0.726
PBB 101	11.46	1.01	8.00	6.91E+04	0.986
BDE 100	12.21	1.00	6.00	3.66E+04	0.702
BDE 119/120	12.37	1.02	12.00	3.26E+04	0.419
BDE 99	12.71	1.03	6.00	2.35E+04	0.759
BDE 116	12.87	1.03	6.00	1.05E+04	0.270
BDE 83	12.99	1.04	6.00	1.21E+04	0.311
BDE 118	13.12	1.04	6.00	1.35E+04	0.348
BDE 85	13.6	1.04	6.00	1.54E+04	0.396
BDE 126	13.77	1.02	6.00	2.44E+04	0.726
BDE 105	13.92	1.06	6.00	1.34E+04	0.345
PBB 153	14.1	1.37	8.00	4.36E+04	1.199
BDE 155	13.76	1.35	8.00	5.59E+04	1.536
BDE 154	14.15	1.37	8.00	4.69E+04	0.871
BDE 153	14.88	1.47	8.00	1.99E+04	1.058
BDE 140	15.34	1.42	8.00	2.42E+04	0.666
BDE 138/166	15.87	1.43	16.00	2.57E+04	0.354
BDE 156	16.2	1.37	8.00	8.10E+03	0.223
BDE 128	16.84	1.43	8.00	9.14E+03	0.251
BDE 184	16.64	1.03	10.00	2.53E+04	0.951
BDE 183	17.01	1.06	10.00	1.75E+04	0.655
BDE 191	17.57	1.10	10.00	9.98E+03	0.374
BDE 181	18.12	0.97	10.00	1.07E+04	0.401
BDE 190	18.27	1.07	10.00	7.32E+03	0.275
PBB 180	17.12	0.95	8.00	1.27E+04	0.594
BDE 197	19.49	0.77	10.00	1.62E+04	0.722
BDE 203	19.77	0.81	10.00	1.06E+04	0.472
BDE 196	19.91	0.80	10.00	1.16E+04	0.516
PBB 194	19.97	1.25	8.00	6.78E+03	0.378
BDE 208	21.23	1.00	20.00	2.67E+04	0.627
BDE 207	21.35	1.00	20.00	3.41E+04	0.799
BDE 206	21.63	1.04	20.00	2.95E+04	0.691
PBB 206	21.07	1.06	20.00	1.01E+04	0.236
PBB 209	21.97	1.31	20.00	1.16E+04	0.272
BDE 209	23.28	1.29	20.00	1.07E+04	0.853
DBDPE	24.67	1.04	40.00	1.66E+04	0.754
Extraction Standards					
13C12 BDE 3	5.11	0.97	50.00	2.23E+06	4.541
13C12 BDE 15	7.13	0.50	50.00	1.27E+06	2.575
13C12 BDE 28	8.67	1.01	50.00	5.90E+05	1.201
13C6 HBB	10.01	2.58	50.00	4.48E+05	0.912
13C12 BDE 47	10.56	1.53	50.00	4.23E+05	0.861
13C12 BDE 77	11.33	1.57	50.00	4.53E+05	0.923
13C12 BDE 100	12.2	1.02	50.00	4.35E+05	2.791
13C12 BDE 99	12.69	1.05	50.00	2.58E+05	1.655
13C12 BDE 126	13.76	0.98	50.00	2.80E+05	1.795
13C12 BDE 154	14.13	1.38	50.00	3.37E+05	2.163
13C12 BDE 153	14.87	1.46	50.00	1.18E+05	0.757
13C12 BDE 183	17.01	1.01	50.00	1.33E+05	1.865
13C12 BDE 197	19.49	0.85	100.00	2.24E+05	1.568
13C12 BDE 207	21.34	1.01	250.00	5.33E+05	1.247
13C12 BDE 209	23.27	1.28	250.00	1.57E+05	0.367
13C14 DBDPE	24.66	1.04	500.00	2.75E+05	0.321
Cleanup Standard					
13C12 BDE 138 Cleanup	15.83	1.39	50.00	1.02E+05	0.658
Labeled Injection Standards					
13C12-BDE-79 (IS)	10.73	1.52	50.00	4.91E+05	
13C12-BDE-139 (IS)	15.14	1.47	50.00	1.56E+05	
13C12-BDE-180 (IS)	17.88	1.03	50.00	7.15E+04	
13C12-BDE-206 (IS)	21.61	1.02	250.00	4.28E+05	

ALS Life Sciences

Calibration Report

ALS Sample ID **H10-21-CCV-0123**
Analysis Method EPA 1614
Analysis Type Calibration

Filename	Inst #	Column	Run Date	Approved:	*Ella Gdyczynski*
10-210913B03	HRMS-10	Col#DB5#US1450812H	13-Sep-2021 18:23		--e-signature--
					15-Sep-2021

Target Analytes	Ret. Time	Ion Ratio	Concentration ng/mL	Response	RRF
BDE 1	4.9	1.00	20.00	3.56E+05	0.422
BDE 2	5.01	0.98	20.00	5.63E+05	0.668
BDE 3	5.11	0.99	20.00	6.60E+05	0.783
BDE 10	6.33	0.50	20.00	2.12E+05	0.430
BDE 7	6.71	0.50	20.00	2.21E+05	0.447
BDE 8/11	6.87	0.50	40.00	6.24E+05	0.632
BDE 12/13	6.99	0.50	40.00	7.15E+05	0.724
BDE 15	7.14	0.50	20.00	4.36E+05	0.883
BDE 30	7.83	1.02	20.00	1.44E+05	0.624
BDE 32	8.28	1.02	20.00	2.02E+05	0.874
BDE 17/25	8.45	1.00	40.00	3.08E+05	0.668
BDE 28/33	8.67	1.01	40.00	3.21E+05	0.697
BDE 35	8.83	1.02	20.00	2.24E+05	0.971
BDE 37	9.02	1.02	20.00	2.23E+05	0.966
PBEB	9.03	1.06	20.00	2.16E+05	1.255
PBB 52	9.13	1.51	20.00	2.13E+05	1.238
HBB	10.01	0.40	20.00	1.88E+05	1.090
BDE 75	10.07	0.66	20.00	1.33E+05	0.772
BDE 51	10.13	0.68	20.00	1.59E+05	0.927
BDE 49	10.23	0.67	20.00	1.05E+05	0.613
BDE 71	10.29	0.67	20.00	1.00E+05	0.583
BDE 47	10.57	0.68	20.00	1.44E+05	0.875
BDE 79	10.73	0.68	20.00	1.66E+05	0.967
BDE 66	10.85	0.69	20.00	9.46E+04	0.550
BDE 77	11.33	0.67	20.00	1.47E+05	0.819
PBB 101	11.46	1.02	40.00	3.70E+05	1.075
BDE 100	12.2	1.02	30.00	2.04E+05	0.809
BDE 119/120	12.37	1.03	60.00	1.87E+05	0.483
BDE 99	12.71	1.02	30.00	1.32E+05	0.863
BDE 116	12.85	1.02	30.00	6.08E+04	0.314
BDE 83	12.99	0.99	30.00	7.11E+04	0.367
BDE 118	13.12	0.97	30.00	8.30E+04	0.428
BDE 85	13.6	1.02	30.00	9.16E+04	0.472
BDE 126	13.76	1.00	30.00	1.44E+05	0.813
BDE 105	13.92	1.02	30.00	7.76E+04	0.400
PBB 153	14.1	1.36	40.00	2.48E+05	1.306
BDE 155	13.76	1.36	40.00	3.12E+05	1.645
BDE 154	14.13	1.38	40.00	2.68E+05	0.947
BDE 153	14.88	1.37	40.00	1.17E+05	1.211
BDE 140	15.33	1.37	40.00	1.40E+05	0.739
BDE 138/166	15.87	1.40	80.00	1.55E+05	0.409
BDE 156	16.2	1.44	40.00	4.92E+04	0.259
BDE 128	16.82	1.48	40.00	5.60E+04	0.295
BDE 184	16.64	1.00	50.00	1.56E+05	1.106
BDE 183	17.01	1.02	50.00	1.09E+05	0.774
BDE 191	17.57	1.01	50.00	6.49E+04	0.461
BDE 181	18.11	0.99	50.00	6.69E+04	0.475
BDE 190	18.27	1.03	50.00	4.45E+04	0.316
PBB 180	17.12	1.00	40.00	7.93E+04	0.704
BDE 197	19.49	0.79	50.00	9.33E+04	0.810
BDE 203	19.77	0.79	50.00	6.60E+04	0.573
BDE 196	19.89	0.79	50.00	7.38E+04	0.640
PBB 194	19.97	1.31	40.00	4.36E+04	0.473
BDE 208	21.23	1.02	100.00	1.77E+05	0.749
BDE 207	21.34	1.01	100.00	2.24E+05	0.950
BDE 206	21.61	1.02	100.00	1.74E+05	0.736
PBB 206	21.07	1.05	100.00	6.92E+04	0.293
PBB 209	21.97	1.25	100.00	7.87E+04	0.333
BDE 209	23.27	1.29	100.00	6.19E+04	0.964
DBDPE	24.66	1.01	200.00	9.67E+04	0.901
Extraction Standards					
13C12 BDE 3	5.1	0.97	50.00	2.11E+06	4.441
13C12 BDE 15	7.13	0.49	50.00	1.23E+06	2.599
13C12 BDE 28	8.67	1.03	50.00	5.77E+05	1.214
13C6 HBB	10	2.60	50.00	4.31E+05	0.907
13C12 BDE 47	10.56	1.52	50.00	4.12E+05	0.867
13C12 BDE 77	11.31	1.56	50.00	4.48E+05	0.943
13C12 BDE 100	12.2	1.03	50.00	4.20E+05	2.808
13C12 BDE 99	12.69	1.04	50.00	2.54E+05	1.699
13C12 BDE 126	13.76	0.99	50.00	2.96E+05	1.976
13C12 BDE 154	14.13	1.38	50.00	3.54E+05	2.365
13C12 BDE 153	14.87	1.41	50.00	1.21E+05	0.808
13C12 BDE 183	17	0.99	50.00	1.41E+05	1.901
13C12 BDE 197	19.49	0.80	100.00	2.30E+05	1.554
13C12 BDE 207	21.34	1.02	250.00	5.90E+05	1.313
13C12 BDE 209	23.26	1.26	250.00	1.61E+05	0.357
13C14 DBDPE	24.65	1.05	500.00	2.68E+05	0.298
Cleanup Standard					
13C12 BDE 138 Cleanup	15.82	1.40	50.00	1.07E+05	0.715
Labeled Injection Standards					
13C12-BDE-79 (IS)	10.72	1.52	50.00	4.75E+05	
13C12-BDE-139 (IS)	15.14	1.42	50.00	1.50E+05	
13C12-BDE-180 (IS)	17.88	1.01	50.00	7.41E+04	
13C12-BDE-206 (IS)	21.61	1.01	250.00	4.50E+05	

ALS Life Sciences

Calibration Report

ALS Sample ID **H10-21-CS4-0123**
Analysis Method EPA 1614
Analysis Type Calibration

Filename	Inst #	Column	Run Date	Approved:	*Ella Gdyczynski*
10-210913B07	HRMS-10	Col#DB5#US1450812H	13-Sep-2021 20:42		--e-signature--
					15-Sep-2021

Target Analytes	Ret. Time	Ion Ratio	Concentration ng/mL	Response	RRF
BDE 1	4.91	0.90	80.00	1.58E+06	0.433
BDE 2	5.01	0.91	80.00	2.40E+06	0.659
BDE 3	5.12	0.95	80.00	2.78E+06	0.763
BDE 10	6.34	0.50	80.00	8.71E+05	0.459
BDE 7	6.71	0.50	80.00	8.58E+05	0.452
BDE 8/11	6.89	0.50	160.00	2.45E+06	0.645
BDE 12/13	7	0.50	160.00	2.83E+06	0.747
BDE 15	7.15	0.50	80.00	1.65E+06	0.868
BDE 30	7.84	1.00	80.00	5.58E+05	0.668
BDE 32	8.29	1.01	80.00	7.43E+05	0.889
BDE 17/25	8.45	1.00	160.00	1.14E+06	0.681
BDE 28/33	8.68	1.01	160.00	1.18E+06	0.703
BDE 35	8.84	1.01	80.00	8.13E+05	0.973
BDE 37	9.03	1.02	80.00	8.16E+05	0.976
PBEB	9.04	1.03	80.00	7.99E+05	1.389
PBB 52	9.14	1.52	80.00	7.92E+05	1.377
HBB	10.01	0.41	80.00	6.35E+05	1.104
BDE 75	10.07	0.67	80.00	4.95E+05	0.877
BDE 51	10.15	0.67	80.00	5.70E+05	1.011
BDE 49	10.23	0.67	80.00	3.64E+05	0.645
BDE 71	10.31	0.68	80.00	3.84E+05	0.681
BDE 47	10.57	0.68	80.00	4.92E+05	0.882
BDE 79	10.74	0.68	80.00	5.50E+05	0.976
BDE 66	10.85	0.67	80.00	3.34E+05	0.593
BDE 77	11.33	0.64	80.00	4.98E+05	0.874
PBB 101	11.48	1.02	160.00	1.33E+06	1.179
BDE 100	12.21	1.00	120.00	7.00E+05	0.825
BDE 119/120	12.38	1.02	240.00	6.80E+05	0.537
BDE 99	12.72	1.02	120.00	4.42E+05	0.891
BDE 116	12.87	1.00	120.00	2.19E+05	0.345
BDE 83	13	1.01	120.00	2.43E+05	0.384
BDE 118	13.12	0.98	120.00	2.75E+05	0.435
BDE 85	13.61	1.01	120.00	3.14E+05	0.495
BDE 126	13.77	1.01	120.00	4.67E+05	0.840
BDE 105	13.94	1.01	120.00	2.89E+05	0.456
PBB 153	14.11	1.36	160.00	8.50E+05	1.364
BDE 155	13.77	1.37	160.00	1.06E+06	1.707
BDE 154	14.15	1.37	160.00	9.02E+05	0.955
BDE 153	14.88	1.37	160.00	3.80E+05	1.260
BDE 140	15.34	1.39	160.00	4.75E+05	0.763
BDE 138/166	15.88	1.39	320.00	5.25E+05	0.422
BDE 156	16.22	1.40	160.00	1.67E+05	0.268
BDE 128	16.84	1.39	160.00	1.93E+05	0.310
BDE 184	16.65	1.02	200.00	5.40E+05	1.244
BDE 183	17.02	1.05	200.00	3.53E+05	0.813
BDE 191	17.58	1.03	200.00	2.18E+05	0.501
BDE 181	18.12	1.02	200.00	2.22E+05	0.511
BDE 190	18.27	1.00	200.00	1.48E+05	0.340
PBB 180	17.13	1.02	160.00	2.69E+05	0.774
BDE 197	19.5	0.80	200.00	2.70E+05	0.858
BDE 203	19.78	0.80	200.00	1.95E+05	0.619
BDE 196	19.91	0.81	200.00	2.32E+05	0.736
PBB 194	19.98	1.30	160.00	1.50E+05	0.596
BDE 208	21.24	1.01	400.00	5.72E+05	0.899
BDE 207	21.35	1.01	400.00	6.43E+05	1.011
BDE 206	21.63	1.04	400.00	4.53E+05	0.712
PBB 206	21.08	1.06	400.00	2.27E+05	0.357
PBB 209	21.98	1.28	400.00	2.53E+05	0.398
BDE 209	23.28	1.36	400.00	1.56E+05	1.054
DBDPE	24.66	1.00	800.00	1.87E+05	0.958
Extraction Standards					
13C12 BDE 3	5.11	0.98	50.00	2.28E+06	5.744
13C12 BDE 15	7.14	0.50	50.00	1.19E+06	2.994
13C12 BDE 28	8.68	1.01	50.00	5.22E+05	1.318
13C6 HBB	10.01	2.59	50.00	3.59E+05	0.907
13C12 BDE 47	10.57	1.59	50.00	3.49E+05	0.880
13C12 BDE 77	11.33	1.53	50.00	3.56E+05	0.899
13C12 BDE 100	12.2	1.02	50.00	3.54E+05	3.315
13C12 BDE 99	12.71	1.02	50.00	2.07E+05	1.937
13C12 BDE 126	13.77	1.01	50.00	2.32E+05	2.172
13C12 BDE 154	14.15	1.37	50.00	2.95E+05	2.766
13C12 BDE 153	14.88	1.40	50.00	9.43E+04	0.884
13C12 BDE 183	17.01	0.99	50.00	1.09E+05	2.272
13C12 BDE 197	19.49	0.82	100.00	1.57E+05	1.645
13C12 BDE 207	21.35	1.01	250.00	3.98E+05	1.393
13C12 BDE 209	23.28	1.37	250.00	9.27E+04	0.325
13C14 DBDPE	24.66	0.98	500.00	1.22E+05	0.214
Cleanup Standard					
13C12 BDE 138 Cleanup	15.83	1.43	50.00	7.74E+04	0.726
Labeled Injection Standards					
13C12-BDE-79 (IS)	10.73	1.58	50.00	3.96E+05	
13C12-BDE-139 (IS)	15.14	1.47	50.00	1.07E+05	
13C12-BDE-180 (IS)	17.88	0.99	50.00	4.78E+04	
13C12-BDE-206 (IS)	21.61	1.03	250.00	2.85E+05	

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Calibration Report

ALS Sample ID **H10-21-CS5-0123**
Analysis Method EPA 1614
Analysis Type Calibration

Filename	Inst #	Column	Run Date	Approved:	*Ella Gdyczynski*
10-210913B06	HRMS-10	Col#DB5#US1450812H	13-Sep-2021 20:07		--e-signature--
					15-Sep-2021

Target Analytes	Ret. Time	Ion Ratio	Concentration ng/mL	Response	RRF
BDE 1	4.89	0.99	240.00	4.61E+06	0.437
BDE 2	5	0.98	240.00	7.46E+06	0.707
BDE 3	5.1	1.00	240.00	8.47E+06	0.802
BDE 10	6.32	0.50	240.00	2.67E+06	0.458
BDE 7	6.71	0.50	240.00	2.72E+06	0.467
BDE 8/11	6.87	0.50	480.00	7.79E+06	0.668
BDE 12/13	6.99	0.50	480.00	9.05E+06	0.776
BDE 15	7.13	0.50	240.00	5.23E+06	0.897
BDE 30	7.83	1.00	240.00	1.73E+06	0.636
BDE 32	8.27	1.01	240.00	2.42E+06	0.891
BDE 17/25	8.44	1.01	480.00	3.81E+06	0.701
BDE 28/33	8.67	1.01	480.00	3.90E+06	0.719
BDE 35	8.82	1.01	240.00	2.79E+06	1.029
BDE 37	9.01	1.01	240.00	2.80E+06	1.031
PBEB	9.02	1.04	240.00	2.63E+06	1.445
PBB 52	9.12	1.52	240.00	2.69E+06	1.478
HBB	10	0.41	240.00	2.06E+06	1.129
BDE 75	10.06	0.67	240.00	1.68E+06	0.887
BDE 51	10.12	0.68	240.00	1.85E+06	0.978
BDE 49	10.22	0.67	240.00	1.27E+06	0.669
BDE 71	10.29	0.68	240.00	1.27E+06	0.672
BDE 47	10.56	0.68	240.00	1.68E+06	0.920
BDE 79	10.72	0.68	240.00	1.85E+06	0.976
BDE 66	10.84	0.67	240.00	1.16E+06	0.611
BDE 77	11.31	0.67	240.00	1.79E+06	0.912
PBB 101	11.46	1.02	480.00	4.67E+06	1.233
BDE 100	12.2	1.02	360.00	2.37E+06	0.855
BDE 119/120	12.37	1.02	720.00	2.44E+06	0.564
BDE 99	12.69	1.02	360.00	1.53E+06	0.912
BDE 116	12.85	1.02	360.00	7.65E+05	0.353
BDE 83	12.99	0.98	360.00	8.56E+05	0.395
BDE 118	13.1	1.01	360.00	9.92E+05	0.458
BDE 85	13.59	1.02	360.00	1.19E+06	0.552
BDE 126	13.76	1.02	360.00	1.85E+06	0.904
BDE 105	13.92	1.01	360.00	1.11E+06	0.511
PBB 153	14.09	1.35	480.00	3.14E+06	1.444
BDE 155	13.76	1.37	480.00	3.76E+06	1.732
BDE 154	14.13	1.35	480.00	3.19E+06	0.987
BDE 153	14.87	1.39	480.00	1.44E+06	1.291
BDE 140	15.33	1.39	480.00	1.80E+06	0.829
BDE 138/166	15.87	1.39	960.00	2.10E+06	0.484
BDE 156	16.2	1.41	480.00	7.65E+05	0.352
BDE 128	16.82	1.37	480.00	8.64E+05	0.398
BDE 184	16.64	1.01	600.00	2.18E+06	1.261
BDE 183	17.01	0.99	600.00	1.43E+06	0.827
BDE 191	17.57	1.03	600.00	9.82E+05	0.568
BDE 181	18.11	1.03	600.00	9.86E+05	0.571
BDE 190	18.27	1.06	600.00	6.87E+05	0.398
PBB 180	17.1	1.01	480.00	1.12E+06	0.812
BDE 197	19.49	0.82	600.00	1.13E+06	0.899
BDE 203	19.77	0.81	600.00	8.99E+05	0.713
BDE 196	19.89	0.82	600.00	1.13E+06	0.895
PBB 194	19.97	1.29	480.00	7.49E+05	0.742
BDE 208	21.23	1.02	1200.00	2.93E+06	0.992
BDE 207	21.34	1.01	1200.00	2.99E+06	1.014
BDE 206	21.61	1.01	1200.00	2.23E+06	0.757
PBB 206	21.07	1.03	1200.00	1.12E+06	0.378
PBB 209	21.97	1.25	1200.00	1.29E+06	0.435
BDE 209	23.27	1.26	1200.00	8.27E+05	1.127
DBDPE	24.66	1.03	2400.00	9.88E+05	1.056
Extraction Standards					
13C12 BDE 3	5.1	0.97	50.00	2.20E+06	5.030
13C12 BDE 15	7.12	0.49	50.00	1.21E+06	2.778
13C12 BDE 28	8.67	1.01	50.00	5.65E+05	1.293
13C6 HBB	10	2.57	50.00	3.79E+05	0.868
13C12 BDE 47	10.56	1.58	50.00	3.81E+05	0.871
13C12 BDE 77	11.31	1.54	50.00	4.09E+05	0.935
13C12 BDE 100	12.18	1.02	50.00	3.85E+05	3.474
13C12 BDE 99	12.69	1.02	50.00	2.33E+05	2.099
13C12 BDE 126	13.76	1.03	50.00	2.84E+05	2.559
13C12 BDE 154	14.13	1.39	50.00	3.37E+05	3.034
13C12 BDE 153	14.87	1.41	50.00	1.16E+05	1.045
13C12 BDE 183	17	1.03	50.00	1.44E+05	2.502
13C12 BDE 197	19.48	0.81	100.00	2.10E+05	1.827
13C12 BDE 207	21.34	1.01	250.00	6.15E+05	1.384
13C12 BDE 209	23.26	1.31	250.00	1.53E+05	0.344
13C14 DBDPE	24.65	1.02	500.00	1.95E+05	0.219
Cleanup Standard					
13C12 BDE 138 Cleanup	15.82	1.45	50.00	9.94E+04	0.896
Labeled Injection Standards					
13C12-BDE-79 (IS)	10.72	1.56	50.00	4.37E+05	
13C12-BDE-139 (IS)	15.13	1.46	50.00	1.11E+05	
13C12-BDE-180 (IS)	17.86	1.01	50.00	5.75E+04	
13C12-BDE-206 (IS)	21.61	1.01	250.00	4.44E+05	

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Continuing Calibration Report

Sample Name	**CCV**	Sampling Date	n/a		
ALS Sample ID	H10-21-CCV-0123	Extraction Date	n/a		Approved:
Analysis Method	EPA 1614	Sample Size	1	n/a	*Ella Gdyczynski*
Analysis Type	CCV	Percent Moisture	n/a		--e-signature--
Sample Matrix	QC	Split Ratio	1		15-Sep-2021

Run Information	**Run 1**
Filename	10-210913B19
Run Date	14-Sep-21 03:40
Final Volume	40 uL
Dilution Factor	1
Analysis Units	%
Instrument - Column	HRMS-10 DB5US1450812

Target Analytes	**pg/uL**	**Ret. Time**	**% Rec**	**Limits**	**Flags**
BDE 10	20	6.34	118	70-130	
BDE 7	20	6.71	116	70-130	
BDE 8/11	40	6.88	111	70-130	
BDE 12/13	40	7.00	110	70-130	
BDE 15	20	7.14	104	70-130	
BDE 30	20	7.84	116	70-130	
BDE 32	20	8.28	114	70-130	
BDE 17/25	40	8.45	111	70-130	
BDE 28/33	40	8.68	107	70-130	
BDE 35	20	8.83	112	70-130	
BDE 37	20	9.02	108	70-130	
HBB	20	10.01	104	70-130	
BDE 75	20	10.07	105	70-130	
BDE 51	20	10.15	105	70-130	
BDE 49	20	10.23	106	70-130	
BDE 71	20	10.31	111	70-130	
BDE 47	20	10.57	102	70-130	
BDE 79	20	10.73	101	70-130	
BDE 66	20	10.85	103	70-130	
BDE 77	20	11.33	101	70-130	
BDE 100	30	12.21	105	70-130	
BDE 119/120	60	12.38	104	70-130	
BDE 99	30	12.71	104	70-130	
BDE 116	30	12.87	101	70-130	
BDE 83	30	13.00	104	70-130	
BDE 118	30	13.12	106	70-130	
BDE 85	30	13.60	111	70-130	
BDE 126	30	13.77	110	70-130	
BDE 105	30	13.94	106	70-130	
BDE 155	40	13.76	105	70-130	
BDE 154	40	14.15	103	70-130	
BDE 153	40	14.88	102	70-130	
BDE 140	40	15.34	113	70-130	
BDE 138/166	80	15.84	107	70-130	
BDE 156	40	16.22	117	70-130	
BDE 128	40	16.84	122	70-130	
BDE 184	50	16.65	104	70-130	
BDE 183	50	17.01	100	70-130	
BDE 191	50	17.57	107	70-130	
BDE 181	50	18.12	107	70-130	
BDE 190	50	18.27	103	70-130	
BDE 197	50	19.49	100	70-130	
BDE 203	50	19.77	105	70-130	
BDE 196	50	19.91	103	70-130	
BDE 208	100	21.23	114	70-130	
BDE 207	100	21.35	97	70-130	
BDE 206	100	21.61	116	70-130	
BDE 209	100	23.28	100	50-200	
Extraction Standards	**pg/uL**		**% Rec**	**Limits**	
13C12 BDE 15	50	7.14	104	50-150	
13C12 BDE 28	50	8.68	100	50-150	
13C6 HBB	50	10.01	87	50-150	
13C12 BDE 47	50	10.57	100	50-150	
13C12 BDE 77	50	11.33	103	50-150	
13C12 BDE 100	50	12.20	93	50-150	
13C12 BDE 99	50	12.71	94	50-150	
13C12 BDE 126	50	13.76	94	50-150	
13C12 BDE 154	50	14.13	86	50-150	
13C12 BDE 153	50	14.87	94	50-150	
13C12 BDE 183	50	17.01	83	50-150	
13C12 BDE 197	100	19.49	93	50-150	
13C12 BDE 207	250	21.34	89	50-150	
13C12 BDE 209	250	23.27	121	25-200	
Cleanup Standard	**pg/uL**				
13C12 BDE 138 Cleanup	50	15.83	99	40-125	

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Continuing Calibration Report

Sample Name	**CCV**	Sampling Date	n/a		
ALS Sample ID	H10-21-CCV-0125	Extraction Date	n/a		Approved:
Analysis Method	EPA 1614	Sample Size	1	n/a	*Ella Gdyczynski*
Analysis Type	CCV	Percent Moisture	n/a		--e-signature--
Sample Matrix	QC	Split Ratio	1		15-Sep-2021

Run Information	**Run 1**
Filename	10-210913B34
Run Date	14-Sep-21 15:31
Final Volume	40 uL
Dilution Factor	1
Analysis Units	%
Instrument - Column	HRMS-10 DB5US1450812

Target Analytes	**pg/uL**	**Ret. Time**	**% Rec**	**Limits**	**Flags**
BDE 10	20	6.33	105	70-130	
BDE 7	20	6.71	105	70-130	
BDE 8/11	40	6.87	104	70-130	
BDE 12/13	40	6.99	103	70-130	
BDE 15	20	7.14	103	70-130	
BDE 30	20	7.83	105	70-130	
BDE 32	20	8.28	106	70-130	
BDE 17/25	40	8.45	105	70-130	
BDE 28/33	40	8.67	103	70-130	
BDE 35	20	8.83	102	70-130	
BDE 37	20	9.02	101	70-130	
HBB	20	10.01	104	70-130	
BDE 75	20	10.07	101	70-130	
BDE 51	20	10.13	108	70-130	
BDE 49	20	10.23	108	70-130	
BDE 71	20	10.29	108	70-130	
BDE 47	20	10.57	106	70-130	
BDE 79	20	10.73	110	70-130	
BDE 66	20	10.85	108	70-130	
BDE 77	20	11.33	107	70-130	
BDE 100	30	12.20	105	70-130	
BDE 119/120	60	12.37	103	70-130	
BDE 99	30	12.71	106	70-130	
BDE 116	30	12.85	96	70-130	
BDE 83	30	12.99	99	70-130	
BDE 118	30	13.12	99	70-130	
BDE 85	30	13.60	99	70-130	
BDE 126	30	13.77	107	70-130	
BDE 105	30	13.92	99	70-130	
BDE 155	40	13.76	105	70-130	
BDE 154	40	14.15	106	70-130	
BDE 153	40	14.88	103	70-130	
BDE 140	40	15.34	102	70-130	
BDE 138/166	80	15.87	99	70-130	
BDE 156	40	16.22	98	70-130	
BDE 128	40	16.84	96	70-130	
BDE 184	50	16.64	98	70-130	
BDE 183	50	17.01	101	70-130	
BDE 191	50	17.57	94	70-130	
BDE 181	50	18.12	90	70-130	
BDE 190	50	18.27	86	70-130	
BDE 197	50	19.49	104	70-130	
BDE 203	50	19.77	84	70-130	
BDE 196	50	19.91	90	70-130	
BDE 208	100	21.23	90	70-130	
BDE 207	100	21.35	105	70-130	
BDE 206	100	21.61	105	70-130	
BDE 209	100	23.27	96	50-200	

Extraction Standards	**pg/uL**		**% Rec**	**Limits**
13C12 BDE 15	50	7.13	91	50-150
13C12 BDE 28	50	8.67	95	50-150
13C6 HBB	50	10.00	85	50-150
13C12 BDE 47	50	10.56	96	50-150
13C12 BDE 77	50	11.31	98	50-150
13C12 BDE 100	50	12.20	99	50-150
13C12 BDE 99	50	12.69	98	50-150
13C12 BDE 126	50	13.76	98	50-150
13C12 BDE 154	50	14.13	97	50-150
13C12 BDE 153	50	14.87	99	50-150
13C12 BDE 183	50	17.01	100	50-150
13C12 BDE 197	100	19.49	92	50-150
13C12 BDE 207	250	21.34	98	50-150
13C12 BDE 209	250	23.26	72	25-200

Cleanup Standard	**pg/uL**			
13C12 BDE 138 Cleanup	50	15.83	100	40-125

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Continuing Calibration Report

Sample Name	**CCV**	Sampling Date	n/a		
ALS Sample ID	H10-21-CCV-0126	Extraction Date	n/a		Approved:
Analysis Method	EPA 1614	Sample Size	1	n/a	*Ella Gdyczynski*
Analysis Type	CCV	Percent Moisture	n/a		--e-signature--
Sample Matrix	QC	Split Ratio	1		15-Sep-2021

Run Information	**Run 1**
Filename	10-210914A21
Run Date	15-Sep-21 14:02
Final Volume	40 uL
Dilution Factor	1
Analysis Units	%
Instrument - Column	HRMS-10 DB5US1450812

Target Analytes	**pg/uL**	**Ret. Time**	**% Rec**	**Limits**	**Flags**
BDE 10	20	6.34	110	70-130	
BDE 7	20	6.71	109	70-130	
BDE 8/11	40	6.88	107	70-130	
BDE 12/13	40	7.00	106	70-130	
BDE 15	20	7.14	104	70-130	
BDE 30	20	7.84	114	70-130	
BDE 32	20	8.28	113	70-130	
BDE 17/25	40	8.45	113	70-130	
BDE 28/33	40	8.68	109	70-130	
BDE 35	20	8.84	111	70-130	
BDE 37	20	9.03	107	70-130	
HBB	20	10.01	104	70-130	
BDE 75	20	10.07	103	70-130	
BDE 51	20	10.13	105	70-130	
BDE 49	20	10.23	102	70-130	
BDE 71	20	10.31	114	70-130	
BDE 47	20	10.57	107	70-130	
BDE 79	20	10.73	108	70-130	
BDE 66	20	10.85	113	70-130	
BDE 77	20	11.33	100	70-130	
BDE 100	30	12.21	108	70-130	
BDE 119/120	60	12.38	104	70-130	
BDE 99	30	12.71	105	70-130	
BDE 116	30	12.87	101	70-130	
BDE 83	30	13.00	104	70-130	
BDE 118	30	13.12	104	70-130	
BDE 85	30	13.60	105	70-130	
BDE 126	30	13.77	107	70-130	
BDE 105	30	13.94	112	70-130	
BDE 155	40	13.76	101	70-130	
BDE 154	40	14.15	105	70-130	
BDE 153	40	14.88	104	70-130	
BDE 140	40	15.34	110	70-130	
BDE 138/166	80	15.88	111	70-130	
BDE 156	40	16.22	113	70-130	
BDE 128	40	16.84	114	70-130	
BDE 184	50	16.65	101	70-130	
BDE 183	50	17.02	104	70-130	
BDE 191	50	17.58	104	70-130	
BDE 181	50	18.12	101	70-130	
BDE 190	50	18.29	104	70-130	
BDE 197	50	19.50	104	70-130	
BDE 203	50	19.78	99	70-130	
BDE 196	50	19.91	100	70-130	
BDE 208	100	21.24	95	70-130	
BDE 207	100	21.35	108	70-130	
BDE 206	100	21.63	123	70-130	
BDE 209	100	23.28	101	50-200	

Extraction Standards	**pg/uL**		**% Rec**	**Limits**
13C12 BDE 15	50	7.14	92	50-150
13C12 BDE 28	50	8.68	90	50-150
13C6 HBB	50	10.01	79	50-150
13C12 BDE 47	50	10.57	93	50-150
13C12 BDE 77	50	11.33	99	50-150
13C12 BDE 100	50	12.20	90	50-150
13C12 BDE 99	50	12.71	95	50-150
13C12 BDE 126	50	13.77	101	50-150
13C12 BDE 154	50	14.15	89	50-150
13C12 BDE 153	50	14.88	98	50-150
13C12 BDE 183	50	17.01	86	50-150
13C12 BDE 197	100	19.49	85	50-150
13C12 BDE 207	250	21.35	89	50-150
13C12 BDE 209	250	23.27	121	25-200

Cleanup Standard	**pg/uL**			
13C12 BDE 138 Cleanup	50	15.83	102	40-125

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Continuing Calibration Report

Sample Name	**CCV**	Sampling Date	n/a		
ALS Sample ID	H10-21-RS2-0123	Extraction Date	n/a		Approved:
Analysis Method	EPA 1614	Sample Size	1	n/a	*Ella Gdyczynski*
Analysis Type	CCV	Percent Moisture	n/a		--e-signature--
Sample Matrix	QC	Split Ratio	1		15-Sep-2021

Run Information	**Run 1**
Filename	10-210913B33
Run Date	14-Sep-21 14:56
Final Volume	40 uL
Dilution Factor	1
Analysis Units	%
Instrument - Column	HRMS-10 DB5US1450812

Target Analytes	**pg/uL**	**Ret. Time**	**% Rec**	**Limits**	**Flags**
BDE 10	50	6.34	117	70-130	
BDE 7	50	6.71	130	70-130	
BDE 8/11					
BDE 12/13					
BDE 15	50	7.14	116	70-130	
BDE 30	50	7.84	117	70-130	
BDE 32					
BDE 17/25	50	8.45	148	70-130	
BDE 28/33	50	8.68	154	70-130	
BDE 35					
BDE 37					
HBB	50	10.01	107	70-130	
BDE 75					
BDE 51					
BDE 49	100	10.23	110	70-130	
BDE 71	100	10.31	118	70-130	
BDE 47	100	10.57	119	70-130	
BDE 79					
BDE 66	100	10.85	104	70-130	
BDE 77	100	11.33	117	70-130	
BDE 100	100	12.21	121	70-130	
BDE 119/120	100	12.37	151	70-130	
BDE 99	100	12.71	121	70-130	
BDE 116					
BDE 83					
BDE 118					
BDE 85	100	13.60	134	70-130	
BDE 126	100	13.77	123	70-130	
BDE 105					
BDE 155					
BDE 154	100	14.15	112	70-130	
BDE 153	100	14.88	107	70-130	
BDE 140	100	15.34	114	70-130	
BDE 138/166	100	15.84	145	70-130	
BDE 156	200	16.22	237	70-130	
BDE 128					
BDE 184	200	16.65	108	70-130	
BDE 183	200	17.02	137	70-130	
BDE 191	200	17.58	118	70-130	
BDE 181					
BDE 190					
BDE 197	200	19.50	195	70-130	
BDE 203	200	19.78	94	70-130	
BDE 196	200	19.91	96	70-130	
BDE 208	500	21.24	111	70-130	
BDE 207	500	21.35	123	70-130	
BDE 206	500	21.63	123	70-130	
BDE 209	500	23.28	116	50-200	

Extraction Standards	**pg/uL**		**% Rec**	**Limits**
13C12 BDE 15	50	7.14	81	50-150
13C12 BDE 28	50	8.68	89	50-150
13C6 HBB	50	10.01	85	50-150
13C12 BDE 47	50	10.57	104	50-150
13C12 BDE 77	50	11.33	107	50-150
13C12 BDE 100	50	12.20	81	50-150
13C12 BDE 99	50	12.71	87	50-150
13C12 BDE 126	50	13.77	92	50-150
13C12 BDE 154	50	14.13	80	50-150
13C12 BDE 153	50	14.88	92	50-150
13C12 BDE 183	50	17.01	78	50-150
13C12 BDE 197	100	19.49	95	50-150
13C12 BDE 207	250	21.35	98	50-150
13C12 BDE 209	250	23.28	93	25-200

Cleanup Standard	**pg/uL**			
13C12 BDE 138 Cleanup	50	15.83	95	40-125

R Indicates that the ion abundance ratio for this compound did not meet the acceptance criterion.

ALS Life Sciences

Continuing Calibration Report

Sample Name	**CCV**	Sampling Date	n/a		
ALS Sample ID	H10-21-RS3-0123	Extraction Date	n/a		Approved:
Analysis Method	EPA 1614	Sample Size	1	n/a	*Ella Gdyczynski*
Analysis Type	CCV	Percent Moisture	n/a		--e-signature--
Sample Matrix	QC	Split Ratio	1		15-Sep-2021

Run Information	**Run 1**
Filename	10-210913B35
Run Date	14-Sep-21 16:22
Final Volume	40 uL
Dilution Factor	1
Analysis Units	%
Instrument - Column	HRMS-10 DB5US1450812

Target Analytes	**pg/uL**	**Ret. Time**	**% Rec**	**Limits**	**Flags**
BDE 10					
BDE 7					
BDE 8/11					
BDE 12/13					
BDE 15					
BDE 30					
BDE 32					
BDE 17/25	50	8.45	137	70-130	
BDE 28/33	50	8.68	137	70-130	
BDE 35					
BDE 37					
HBB					
BDE 75					
BDE 51					
BDE 49					
BDE 71	50	10.31	111	70-130	
BDE 47	50	10.57	113	70-130	
BDE 79					
BDE 66	50	10.85	112	70-130	
BDE 77					
BDE 100	50	12.21	112	70-130	
BDE 119/120					
BDE 99	50	12.72	116	70-130	
BDE 116					
BDE 83					
BDE 118					
BDE 85	50	13.61	116	70-130	
BDE 126					
BDE 105					
BDE 155					
BDE 154	50	14.15	105	70-130	
BDE 153	50	14.90	98	70-130	
BDE 140					
BDE 138/166	75	15.84	122	70-130	
BDE 156					
BDE 128					
BDE 184					
BDE 183	50	17.02	114	70-130	
BDE 191					
BDE 181					
BDE 190					
BDE 197					
BDE 203					
BDE 196					
BDE 208					
BDE 207					
BDE 206					
BDE 209	200	23.28	92	50-200	

Extraction Standards	**pg/uL**		**% Rec**	**Limits**
13C12 BDE 15	50	7.14	89	50-150
13C12 BDE 28	50	8.68	95	50-150
13C6 HBB	50	10.01	82	50-150
13C12 BDE 47	50	10.57	100	50-150
13C12 BDE 77	50	11.33	96	50-150
13C12 BDE 100	50	12.21	101	50-150
13C12 BDE 99	50	12.71	102	50-150
13C12 BDE 126	50	13.77	88	50-150
13C12 BDE 154	50	14.15	96	50-150
13C12 BDE 153	50	14.88	97	50-150
13C12 BDE 183	50	17.01	106	50-150
13C12 BDE 197	100	19.50	90	50-150
13C12 BDE 207	250	21.35	96	50-150
13C12 BDE 209	250	23.28	105	25-200

Cleanup Standard	**pg/uL**			
13C12 BDE 138 Cleanup	50	15.84	95	40-125

R Indicates that the ion abundance ratio for this compound did not meet the acceptance criterion.

ALS Life Sciences

Calibration Summary Report

Calibration Level	Filename	Run Date
CS-1	9-210930B04	30-Sep-2021 18:07
CS-2	9-210930B03	30-Sep-2021 17:31
CS-3	9-210930B02	30-Sep-2021 16:54
CS-4	9-210930B06	30-Sep-2021 19:20
CS-5	9-210930B05	30-Sep-2021 18:44

Approved: *Ella Gdyczynski*
--e-signature--
15-Sep-2021

	Relative Response Factors						
Target Analytes	**CS-1**	**CS-2**	**CS-3**	**CS-4**	**CS-5**	**Mean**	**% RSD**
BDE 10	0.482	0.469	0.480	0.463	0.462	0.471	2%
BDE 7	0.503	0.512	0.513	0.505	0.505	0.508	1%
BDE 8/11	0.710	0.713	0.728	0.725	0.704	0.716	1%
BDE 12/13	0.815	0.820	0.845	0.841	0.754	0.815	4%
BDE 15	0.969	0.987	0.996	1.005	0.890	0.969	5%
BDE 30	0.692	0.689	0.707	0.682	0.680	0.690	2%
BDE 32	0.973	0.968	0.976	0.945	0.955	0.963	1%
BDE 17/25	0.760	0.747	0.783	0.772	0.781	0.769	2%
BDE 28/33	0.786	0.771	0.794	0.798	0.807	0.791	2%
BDE 35	1.130	1.146	1.202	1.182	1.224	1.177	3%
BDE 37	1.135	1.133	1.198	1.173	1.238	1.175	4%
PBEB	1.188	1.258	1.332	1.289	1.296	1.273	4%
PBB 52	1.190	1.179	1.206	1.201	1.165	1.188	1%
HBB	1.073	1.048	1.084	1.079	1.073	1.071	1%
BDE 75	0.776	0.762	0.813	0.767	0.790	0.782	3%
BDE 51	0.799	0.846	0.914	0.876	0.884	0.864	5%
BDE 49	0.576	0.578	0.613	0.590	0.609	0.593	3%
BDE 71	0.544	0.590	0.617	0.594	0.587	0.586	5%
BDE 47	0.977	0.966	0.981	0.979	0.992	0.979	1%
BDE 79	1.048	1.047	1.074	1.068	1.055	1.058	1%
BDE 66	0.557	0.553	0.576	0.567	0.599	0.570	3%
BDE 77	0.927	0.924	0.927	0.942	0.965	0.937	2%
PBB 101	0.699	0.688	0.721	0.717	0.739	0.713	3%
BDE 100	0.839	0.856	0.860	0.875	0.889	0.864	2%
BDE 119/120	0.521	0.518	0.535	0.557	0.547	0.536	3%
BDE 99	0.909	0.924	0.937	0.944	0.966	0.936	2%
BDE 116	0.307	0.327	0.338	0.339	0.365	0.335	6%
BDE 83	0.394	0.404	0.423	0.416	0.415	0.410	3%
BDE 118	0.451	0.464	0.481	0.490	0.510	0.479	5%
BDE 85	0.508	0.523	0.557	0.560	0.603	0.550	7%
BDE 126	0.922	0.909	0.937	0.924	0.932	0.925	1%
BDE 105	0.427	0.433	0.471	0.487	0.535	0.471	9%
PBB 153	1.100	1.102	1.132	1.119	1.158	1.122	2%
BDE 155	1.392	1.386	1.421	1.435	1.422	1.411	1%
BDE 154	0.945	0.942	0.957	0.962	0.964	0.954	1%
BDE 153	1.029	1.030	1.044	1.077	1.093	1.055	3%
BDE 140	0.847	0.882	0.898	0.927	0.972	0.905	5%
BDE 138/166	0.478	0.480	0.509	0.544	0.608	0.524	10%
BDE 156	0.315	0.338	0.371	0.414	0.504	0.388	19%
BDE 128	0.343	0.383	0.436	0.471	0.547	0.436	18%
BDE 184	1.182	1.210	1.247	1.250	1.280	1.234	3%
BDE 183	0.807	0.823	0.829	0.841	0.864	0.833	3%
BDE 191	0.498	0.513	0.570	0.577	0.661	0.564	11%
BDE 181	0.477	0.524	0.550	0.587	0.679	0.563	13%
BDE 190	0.323	0.341	0.374	0.407	0.499	0.389	18%
PBB 180	0.771	0.828	0.834	0.871	0.912	0.843	6%
BDE 197	0.786	0.793	0.817	0.819	0.861	0.815	4%
BDE 203	0.491	0.512	0.587	0.620	0.727	0.587	16%
BDE 196	0.506	0.547	0.632	0.737	0.867	0.658	22%
PBB 194	0.394	0.413	0.494	0.581	0.670	0.510	23%
BDE 208	0.686	0.709	0.863	0.927	1.028	0.843	17%
BDE 207	0.977	0.980	0.984	1.021	1.033	0.999	3%
BDE 206	0.822	0.798	0.770	0.793	0.856	0.808	4%
PBB 206	0.276	0.280	0.327	0.303	0.328	0.303	8%
PBB 209	0.248	0.254	0.307	0.296	0.330	0.287	12%
BDE 209	0.970	0.969	0.971	0.974	1.031	0.983	3%
DBDPE	0.922	0.920	0.995	0.981	1.056	0.975	6%
Extraction Standards							
13C12 BDE 15	1.603	1.618	1.710	1.617	1.656	1.641	3%
13C12 BDE 28	0.921	0.955	0.987	0.948	0.987	0.960	3%
13C6 HBB	0.513	0.518	0.542	0.509	0.560	0.528	4%
13C12 BDE 47	0.845	0.850	0.841	0.843	0.846	0.845	0%
13C12 BDE 77	0.976	0.988	0.992	0.992	1.026	0.995	2%
13C12 BDE 100	2.616	2.492	2.416	2.622	2.676	2.564	4%
13C12 BDE 99	1.558	1.516	1.498	1.627	1.700	1.580	5%
13C12 BDE 126	1.799	1.817	1.803	2.109	2.383	1.982	13%
13C12 BDE 154	1.512	1.487	1.493	1.660	1.763	1.583	8%
13C12 BDE 153	0.814	0.819	0.817	0.894	0.998	0.868	9%
13C12 BDE 183	1.719	1.698	1.760	1.901	1.980	1.812	7%
13C12 BDE 197	1.479	1.486	1.470	1.607	1.678	1.544	6%
13C12 BDE 207	1.211	1.251	1.312	1.285	1.238	1.259	3%
13C12 BDE 209	0.435	0.445	0.429	0.461	0.535	0.461	9%
13C14 DBDPE	0.263	0.282	0.257	0.289	0.378	0.294	17%
Cleanup Standard							
13C12 BDE 138 Cleanup	0.704	0.717	0.740	0.819	0.938	0.784	12%

ALS Life Sciences

Calibration Report

ALS Sample ID **H9-21-CS#1-009**
Analysis Method EPA 1614
Analysis Type Calibration

Filename	Inst #	Column	Run Date	Approved:	*Ella Gdyczynski*
9-210930B04	HRMS-10	Col#DB5#US1450812H	30-Sep-2021 18:07		--e-signature--
					15-Sep-2021

Target Analytes	Ret. Time	Ion Ratio	Concentration ng/mL	Response	RRF
BDE 10	6.26	0.52	1.00	7.55E+04	0.482
BDE 7	6.63	0.52	1.00	7.87E+04	0.503
BDE 8/11	6.8	0.51	2.00	2.22E+05	0.710
BDE 12/13	6.92	0.52	2.00	2.55E+05	0.815
BDE 15	7.06	0.51	1.00	1.52E+05	0.969
BDE 30	7.76	1.02	1.00	6.23E+04	0.692
BDE 32	8.2	0.99	1.00	8.75E+04	0.973
BDE 17/25	8.37	1.01	2.00	1.37E+05	0.760
BDE 28/33	8.6	1.00	2.00	1.41E+05	0.786
BDE 35	8.76	0.98	1.00	1.02E+05	1.130
BDE 37	8.95	1.02	1.00	1.02E+05	1.135
PBEB	8.96	1.01	1.00	5.96E+04	1.188
PBB 52	9.06	1.53	1.00	5.96E+04	1.190
HBB	9.94	0.40	1.00	5.38E+04	1.073
BDE 75	10	0.68	1.00	6.91E+04	0.776
BDE 51	10.08	0.69	1.00	7.11E+04	0.799
BDE 49	10.16	0.67	1.00	5.12E+04	0.576
BDE 71	10.24	0.68	1.00	4.84E+04	0.544
BDE 47	10.5	0.67	1.00	8.07E+04	0.977
BDE 79	10.66	0.69	1.00	9.33E+04	1.048
BDE 66	10.79	0.70	1.00	4.96E+04	0.557
BDE 77	11.26	0.67	1.00	8.84E+04	0.927
PBB 101	11.41	0.98	2.00	1.24E+05	0.699
BDE 100	12.14	1.04	1.50	1.13E+05	0.839
BDE 119/120	12.31	1.06	3.00	1.06E+05	0.521
BDE 99	12.65	1.02	1.50	7.27E+04	0.909
BDE 116	12.81	1.04	1.50	3.14E+04	0.307
BDE 83	12.94	1.02	1.50	4.03E+04	0.394
BDE 118	13.06	1.01	1.50	4.60E+04	0.451
BDE 85	13.54	1.06	1.50	5.18E+04	0.508
BDE 126	13.71	1.00	1.50	8.51E+04	0.922
BDE 105	13.87	1.00	1.50	4.36E+04	0.427
PBB 153	14.04	1.41	2.00	8.76E+04	1.100
BDE 155	13.71	1.38	2.00	1.11E+05	1.392
BDE 154	14.09	1.44	2.00	9.78E+04	0.945
BDE 153	14.82	1.32	2.00	5.73E+04	1.029
BDE 140	15.29	1.35	2.00	6.74E+04	0.847
BDE 138/166	15.78	1.40	4.00	7.60E+04	0.478
BDE 156	16.15	1.33	2.00	2.50E+04	0.315
BDE 128	16.77	1.41	2.00	2.73E+04	0.343
BDE 184	16.58	1.02	2.50	6.60E+04	1.182
BDE 183	16.96	0.99	2.50	4.51E+04	0.807
BDE 191	17.52	1.04	2.50	2.78E+04	0.498
BDE 181	18.06	1.03	2.50	2.66E+04	0.477
BDE 190	18.21	0.99	2.50	1.80E+04	0.323
PBB 180	17.06	0.98	2.00	3.44E+04	0.771
BDE 197	19.43	0.76	2.50	3.78E+04	0.786
BDE 203	19.69	0.77	2.50	2.36E+04	0.491
BDE 196	19.82	0.81	2.50	2.43E+04	0.506
PBB 194	19.9	1.25	2.00	1.52E+04	0.394
BDE 208	21.14	1.02	5.00	7.75E+04	0.686
BDE 207	21.27	1.03	5.00	1.10E+05	0.977
BDE 206	21.54	1.09	5.00	9.29E+04	0.822
PBB 206	20.99	0.94	5.00	3.12E+04	0.276
PBB 209	21.9	1.23	5.00	2.81E+04	0.248
BDE 209	23.22	1.32	5.00	3.94E+04	0.970
DBDPE	24.62	0.94	10.00	4.53E+04	0.922
Extraction Standards					
13C12 BDE 15	7.06	0.52	50.00	7.83E+06	1.603
13C12 BDE 28	8.6	1.03	50.00	4.50E+06	0.921
13C6 HBB	9.94	2.57	50.00	2.51E+06	0.513
13C12 BDE 47	10.5	1.56	50.00	4.13E+06	0.845
13C12 BDE 77	11.26	1.56	50.00	4.77E+06	0.976
13C12 BDE 100	12.14	1.03	50.00	4.47E+06	2.616
13C12 BDE 99	12.64	1.03	50.00	2.66E+06	1.558
13C12 BDE 126	13.71	1.03	50.00	3.08E+06	1.799
13C12 BDE 154	14.08	1.38	50.00	2.59E+06	1.512
13C12 BDE 153	14.82	1.39	50.00	1.39E+06	0.814
13C12 BDE 183	16.95	1.04	50.00	1.12E+06	1.719
13C12 BDE 197	19.42	0.81	100.00	1.92E+06	1.479
13C12 BDE 207	21.26	1.01	250.00	5.65E+06	1.211
13C12 BDE 209	23.21	1.27	250.00	2.03E+06	0.435
13C14 DBDPE	24.61	1.06	500.00	2.46E+06	0.263
Cleanup Standard					
13C12 BDE 138 Cleanup	15.77	1.38	50.00	1.20E+06	0.704
Labeled Injection Standards					
13C12-BDE-79 (IS)	10.66	1.56	50.00	4.89E+06	

13C12-BDE-139 (IS)	15.09	1.37	50.00	1.71E+06
13C12-BDE-180 (IS)	17.81	1.05	50.00	6.50E+05
13C12-BDE-206 (IS)	21.53	1.02	250.00	4.67E+06

ALS Life Sciences

Calibration Report

ALS Sample ID **H9-21-CS#2-009**
Analysis Method EPA 1614
Analysis Type Calibration

Filename	Inst #	Column	Run Date	Approved:	*Ella Gdyczynski*
9-210930B03	HRMS-10	Col#DB5#US1450812H	30-Sep-2021 17:31		--e-signature-- 15-Sep-2021

Target Analytes	Ret. Time	Ion Ratio	Concentration ng/mL	Response	RRF
BDE 10	6.25	0.51	4.00	3.07E+05	0.469
BDE 7	6.62	0.52	4.00	3.35E+05	0.512
BDE 8/11	6.79	0.52	8.00	9.34E+05	0.713
BDE 12/13	6.91	0.51	8.00	1.07E+06	0.820
BDE 15	7.05	0.51	4.00	6.46E+05	0.987
BDE 30	7.75	0.98	4.00	2.66E+05	0.689
BDE 32	8.2	1.02	4.00	3.74E+05	0.968
BDE 17/25	8.37	1.02	8.00	5.77E+05	0.747
BDE 28/33	8.59	1.01	8.00	5.95E+05	0.771
BDE 35	8.75	1.01	4.00	4.42E+05	1.146
BDE 37	8.94	1.02	4.00	4.37E+05	1.133
PBEB	8.95	1.02	4.00	2.63E+05	1.258
PBB 52	9.05	1.51	4.00	2.47E+05	1.179
HBB	9.94	0.41	4.00	2.19E+05	1.048
BDE 75	9.99	0.67	4.00	2.83E+05	0.762
BDE 51	10.07	0.69	4.00	3.14E+05	0.846
BDE 49	10.16	0.69	4.00	2.15E+05	0.578
BDE 71	10.23	0.69	4.00	2.19E+05	0.590
BDE 47	10.5	0.67	4.00	3.32E+05	0.966
BDE 79	10.66	0.68	4.00	3.89E+05	1.047
BDE 66	10.79	0.70	4.00	2.06E+05	0.553
BDE 77	11.26	0.67	4.00	3.69E+05	0.924
PBB 101	11.4	1.01	8.00	5.12E+05	0.688
BDE 100	12.14	1.02	6.00	4.69E+05	0.856
BDE 119/120	12.3	1.02	12.00	4.42E+05	0.518
BDE 99	12.64	1.02	6.00	3.08E+05	0.924
BDE 116	12.8	1.02	6.00	1.40E+05	0.327
BDE 83	12.94	1.02	6.00	1.72E+05	0.404
BDE 118	13.05	1.02	6.00	1.98E+05	0.464
BDE 85	13.53	1.03	6.00	2.23E+05	0.523
BDE 126	13.71	1.01	6.00	3.63E+05	0.909
BDE 105	13.86	0.99	6.00	1.85E+05	0.433
PBB 153	14.03	1.38	8.00	3.72E+05	1.102
BDE 155	13.69	1.35	8.00	4.68E+05	1.386
BDE 154	14.08	1.36	8.00	4.11E+05	0.942
BDE 153	14.82	1.35	8.00	2.47E+05	1.030
BDE 140	15.27	1.33	8.00	2.98E+05	0.882
BDE 138/166	15.78	1.36	16.00	3.24E+05	0.480
BDE 156	16.14	1.35	8.00	1.14E+05	0.338
BDE 128	16.76	1.39	8.00	1.29E+05	0.383
BDE 184	16.57	1.02	10.00	2.95E+05	1.210
BDE 183	16.95	1.02	10.00	2.01E+05	0.823
BDE 191	17.51	1.10	10.00	1.25E+05	0.513
BDE 181	18.05	1.06	10.00	1.28E+05	0.524
BDE 190	18.21	1.01	10.00	8.32E+04	0.341
PBB 180	17.05	1.02	8.00	1.62E+05	0.828
BDE 197	19.42	0.81	10.00	1.69E+05	0.793
BDE 203	19.68	0.83	10.00	1.09E+05	0.512
BDE 196	19.82	0.86	10.00	1.17E+05	0.547
PBB 194	19.88	1.30	8.00	7.05E+04	0.413
BDE 208	21.13	1.00	20.00	3.68E+05	0.709
BDE 207	21.26	0.99	20.00	5.09E+05	0.980
BDE 206	21.53	1.00	20.00	4.14E+05	0.798
PBB 206	20.98	0.91	20.00	1.46E+05	0.280
PBB 209	21.88	1.14	20.00	1.32E+05	0.254
BDE 209	23.21	1.24	20.00	1.79E+05	0.969
DBDPE	24.61	1.08	40.00	2.15E+05	0.920
Extraction Standards					
13C12 BDE 15	7.05	0.51	50.00	8.18E+06	1.618
13C12 BDE 28	8.59	1.04	50.00	4.83E+06	0.955
13C6 HBB	9.93	2.53	50.00	2.62E+06	0.518
13C12 BDE 47	10.49	1.55	50.00	4.30E+06	0.850
13C12 BDE 77	11.25	1.55	50.00	4.99E+06	0.988
13C12 BDE 100	12.13	1.03	50.00	4.56E+06	2.492
13C12 BDE 99	12.64	1.04	50.00	2.78E+06	1.516
13C12 BDE 126	13.69	1.04	50.00	3.33E+06	1.817
13C12 BDE 154	14.07	1.37	50.00	2.72E+06	1.487
13C12 BDE 153	14.81	1.37	50.00	1.50E+06	0.819
13C12 BDE 183	16.93	1.02	50.00	1.22E+06	1.698
13C12 BDE 197	19.42	0.82	100.00	2.14E+06	1.486
13C12 BDE 207	21.26	1.01	250.00	6.49E+06	1.251
13C12 BDE 209	23.2	1.26	250.00	2.31E+06	0.445
13C14 DBDPE	24.6	1.06	500.00	2.93E+06	0.282
Cleanup Standard					
13C12 BDE 138 Cleanup	15.77	1.37	50.00	1.31E+06	0.717
Labeled Injection Standards					
13C12-BDE-79 (IS)	10.65	1.53	50.00	5.06E+06	
13C12-BDE-139 (IS)	15.08	1.38	50.00	1.83E+06	
13C12-BDE-180 (IS)	17.81	1.04	50.00	7.18E+05	
13C12-BDE-206 (IS)	21.52	1.01	250.00	5.19E+06	

ALS Life Sciences

Calibration Report

ALS Sample ID **H9-21-CCV-781**
Analysis Method EPA 1614
Analysis Type Calibration

Filename	Inst #	Column	Run Date	Approved:	*Ella Gdyczynski*
9-210930B02	HRMS-10	Col#DB5#US1450812H	30-Sep-2021 16:54		--e-signature-- 15-Sep-2021

Target Analytes	Ret. Time	Ion Ratio	Concentration ng/mL	Response	RRF
BDE 10	6.24	0.51	20.00	9.77E+05	0.480
BDE 7	6.62	0.51	20.00	1.04E+06	0.513
BDE 8/11	6.79	0.51	40.00	2.96E+06	0.728
BDE 12/13	6.91	0.52	40.00	3.44E+06	0.845
BDE 15	7.05	0.51	20.00	2.03E+06	0.996
BDE 30	7.74	1.01	20.00	8.30E+05	0.707
BDE 32	8.19	1.01	20.00	1.15E+06	0.976
BDE 17/25	8.36	1.01	40.00	1.84E+06	0.783
BDE 28/33	8.58	1.01	40.00	1.87E+06	0.794
BDE 35	8.74	1.00	20.00	1.41E+06	1.202
BDE 37	8.93	1.00	20.00	1.41E+06	1.198
PBEB	8.94	1.01	20.00	8.59E+05	1.332
PBB 52	9.04	1.53	20.00	7.77E+05	1.206
HBB	9.92	0.40	20.00	6.99E+05	1.084
BDE 75	9.98	0.68	20.00	8.86E+05	0.813
BDE 51	10.05	0.69	20.00	9.97E+05	0.914
BDE 49	10.14	0.66	20.00	6.68E+05	0.613
BDE 71	10.21	0.68	20.00	6.73E+05	0.617
BDE 47	10.48	0.69	20.00	9.81E+05	0.981
BDE 79	10.64	0.68	20.00	1.17E+06	1.074
BDE 66	10.76	0.67	20.00	6.28E+05	0.576
BDE 77	11.23	0.68	20.00	1.09E+06	0.927
PBB 101	11.38	1.01	40.00	1.57E+06	0.721
BDE 100	12.12	1.02	30.00	1.39E+06	0.860
BDE 119/120	12.29	1.01	60.00	1.37E+06	0.535
BDE 99	12.63	1.02	30.00	9.42E+05	0.937
BDE 116	12.77	1.03	30.00	4.32E+05	0.338
BDE 83	12.91	1.01	30.00	5.41E+05	0.423
BDE 118	13.02	1.02	30.00	6.16E+05	0.481
BDE 85	13.52	1.02	30.00	7.12E+05	0.557
BDE 126	13.68	1.02	30.00	1.13E+06	0.937
BDE 105	13.84	1.03	30.00	6.03E+05	0.471
PBB 153	14.02	1.34	40.00	1.17E+06	1.132
BDE 155	13.68	1.36	40.00	1.47E+06	1.421
BDE 154	14.05	1.37	40.00	1.28E+06	0.957
BDE 153	14.8	1.36	40.00	7.64E+05	1.044
BDE 140	15.25	1.35	40.00	9.29E+05	0.898
BDE 138/166	15.75	1.34	80.00	1.05E+06	0.509
BDE 156	16.12	1.38	40.00	3.84E+05	0.371
BDE 128	16.74	1.34	40.00	4.51E+05	0.436
BDE 184	16.56	1.02	50.00	9.87E+05	1.247
BDE 183	16.92	1.03	50.00	6.57E+05	0.829
BDE 191	17.48	1.04	50.00	4.51E+05	0.570
BDE 181	18.03	1.03	50.00	4.36E+05	0.550
BDE 190	18.19	1.04	50.00	2.97E+05	0.374
PBB 180	17.03	1.01	40.00	5.29E+05	0.834
BDE 197	19.4	0.81	50.00	5.40E+05	0.817
BDE 203	19.67	0.82	50.00	3.89E+05	0.587
BDE 196	19.8	0.81	50.00	4.19E+05	0.632
PBB 194	19.87	1.29	40.00	2.62E+05	0.494
BDE 208	21.13	1.01	100.00	1.40E+06	0.863
BDE 207	21.25	1.02	100.00	1.60E+06	0.984
BDE 206	21.52	1.03	100.00	1.25E+06	0.770
PBB 206	20.97	0.94	100.00	5.32E+05	0.327
PBB 209	21.87	1.16	100.00	4.99E+05	0.307
BDE 209	23.18	1.24	100.00	5.16E+05	0.971
DBDPE	24.57	1.08	200.00	6.34E+05	0.995
Extraction Standards					
13C12 BDE 15	7.04	0.52	50.00	5.09E+06	1.710
13C12 BDE 28	8.58	1.04	50.00	2.94E+06	0.987
13C6 HBB	9.92	2.55	50.00	1.61E+06	0.542
13C12 BDE 47	10.48	1.54	50.00	2.50E+06	0.841
13C12 BDE 77	11.23	1.54	50.00	2.95E+06	0.992
13C12 BDE 100	12.12	1.03	50.00	2.70E+06	2.416
13C12 BDE 99	12.61	1.03	50.00	1.68E+06	1.498
13C12 BDE 126	13.67	1.05	50.00	2.02E+06	1.803
13C12 BDE 154	14.05	1.37	50.00	1.67E+06	1.493
13C12 BDE 153	14.78	1.40	50.00	9.15E+05	0.817
13C12 BDE 183	16.92	1.02	50.00	7.92E+05	1.760
13C12 BDE 197	19.39	0.81	100.00	1.32E+06	1.470
13C12 BDE 207	21.24	1.02	250.00	4.06E+06	1.312
13C12 BDE 209	23.17	1.26	250.00	1.33E+06	0.429
13C14 DBDPE	24.56	1.11	500.00	1.59E+06	0.257
Cleanup Standard					
13C12 BDE 138 Cleanup	15.74	1.37	50.00	8.28E+05	0.740
Labeled Injection Standards					
13C12-BDE-79 (IS)	10.64	1.55	50.00	2.97E+06	
13C12-BDE-139 (IS)	15.05	1.40	50.00	1.12E+06	
13C12-BDE-180 (IS)	17.79	1.04	50.00	4.50E+05	
13C12-BDE-206 (IS)	21.51	1.02	250.00	3.10E+06	

ALS Life Sciences

Calibration Report

ALS Sample ID **H9-21-CS#4-009**
Analysis Method EPA 1614
Analysis Type Calibration

Filename	Inst #	Column	Run Date	Approved:	*Ella Gdyczynski*
9-210930B06	HRMS-10	Col#DB5#US1450812H	30-Sep-2021 19:20		--e-signature--
					15-Sep-2021

Target Analytes	Ret. Time	Ion Ratio	Concentration ng/mL	Response	RRF
BDE 10	6.26	0.52	80.00	5.66E+06	0.463
BDE 7	6.64	0.52	80.00	6.18E+06	0.505
BDE 8/11	6.8	0.52	160.00	1.77E+07	0.725
BDE 12/13	6.93	0.52	160.00	2.06E+07	0.841
BDE 15	7.07	0.52	80.00	1.23E+07	1.005
BDE 30	7.76	1.01	80.00	4.90E+06	0.682
BDE 32	8.22	1.00	80.00	6.78E+06	0.945
BDE 17/25	8.37	1.00	160.00	1.11E+07	0.772
BDE 28/33	8.6	1.01	160.00	1.15E+07	0.798
BDE 35	8.76	1.02	80.00	8.48E+06	1.182
BDE 37	8.95	1.02	80.00	8.42E+06	1.173
PBEB	8.96	1.02	80.00	4.97E+06	1.289
PBB 52	9.06	1.54	80.00	4.63E+06	1.201
HBB	9.95	0.41	80.00	4.16E+06	1.079
BDE 75	10	0.67	80.00	5.33E+06	0.767
BDE 51	10.08	0.68	80.00	6.09E+06	0.876
BDE 49	10.17	0.68	80.00	4.10E+06	0.590
BDE 71	10.24	0.69	80.00	4.12E+06	0.594
BDE 47	10.5	0.68	80.00	6.25E+06	0.979
BDE 79	10.67	0.68	80.00	7.42E+06	1.068
BDE 66	10.79	0.68	80.00	3.94E+06	0.567
BDE 77	11.27	0.68	80.00	7.07E+06	0.942
PBB 101	11.41	1.01	160.00	9.96E+06	0.717
BDE 100	12.15	1.03	120.00	8.96E+06	0.875
BDE 119/120	12.31	1.02	240.00	9.22E+06	0.557
BDE 99	12.65	1.02	120.00	5.99E+06	0.944
BDE 116	12.81	1.01	120.00	2.80E+06	0.339
BDE 83	12.94	1.02	120.00	3.44E+06	0.416
BDE 118	13.06	1.03	120.00	4.05E+06	0.490
BDE 85	13.55	1.01	120.00	4.63E+06	0.560
BDE 126	13.72	1.02	120.00	7.61E+06	0.924
BDE 105	13.87	1.02	120.00	4.03E+06	0.487
PBB 153	14.04	1.36	160.00	7.44E+06	1.119
BDE 155	13.71	1.35	160.00	9.54E+06	1.435
BDE 154	14.09	1.36	160.00	8.31E+06	0.962
BDE 153	14.83	1.37	160.00	5.01E+06	1.077
BDE 140	15.29	1.35	160.00	6.16E+06	0.927
BDE 138/166	15.78	1.35	320.00	7.23E+06	0.544
BDE 156	16.15	1.32	160.00	2.75E+06	0.414
BDE 128	16.77	1.40	160.00	3.13E+06	0.471
BDE 184	16.58	1.03	200.00	6.57E+06	1.250
BDE 183	16.96	1.02	200.00	4.42E+06	0.841
BDE 191	17.52	1.03	200.00	3.04E+06	0.577
BDE 181	18.07	1.01	200.00	3.09E+06	0.587
BDE 190	18.22	1.01	200.00	2.14E+06	0.407
PBB 180	17.06	1.03	160.00	3.66E+06	0.871
BDE 197	19.43	0.81	200.00	3.64E+06	0.819
BDE 203	19.71	0.83	200.00	2.76E+06	0.620
BDE 196	19.83	0.81	200.00	3.28E+06	0.737
PBB 194	19.9	1.25	160.00	2.07E+06	0.581
BDE 208	21.15	1.02	400.00	1.30E+07	0.927
BDE 207	21.27	1.03	400.00	1.43E+07	1.021
BDE 206	21.54	1.02	400.00	1.11E+07	0.793
PBB 206	20.99	0.99	400.00	4.25E+06	0.303
PBB 209	21.9	1.24	400.00	4.16E+06	0.296
BDE 209	23.23	1.25	400.00	4.90E+06	0.974
DBDPE	24.63	0.94	800.00	6.19E+06	0.981
Extraction Standards					
13C12 BDE 15	7.06	0.51	50.00	7.65E+06	1.617
13C12 BDE 28	8.6	1.04	50.00	4.49E+06	0.948
13C6 HBB	9.94	2.56	50.00	2.41E+06	0.509
13C12 BDE 47	10.5	1.56	50.00	3.99E+06	0.843
13C12 BDE 77	11.26	1.55	50.00	4.69E+06	0.992
13C12 BDE 100	12.14	1.03	50.00	4.26E+06	2.622
13C12 BDE 99	12.64	1.04	50.00	2.65E+06	1.627
13C12 BDE 126	13.71	1.04	50.00	3.43E+06	2.109
13C12 BDE 154	14.08	1.37	50.00	2.70E+06	1.660
13C12 BDE 153	14.82	1.38	50.00	1.45E+06	0.894
13C12 BDE 183	16.96	1.05	50.00	1.31E+06	1.901
13C12 BDE 197	19.43	0.82	100.00	2.22E+06	1.607
13C12 BDE 207	21.27	1.03	250.00	8.78E+06	1.285
13C12 BDE 209	23.22	1.31	250.00	3.15E+06	0.461
13C14 DBDPE	24.62	1.05	500.00	3.94E+06	0.289
Cleanup Standard					
13C12 BDE 138 Cleanup	15.78	1.37	50.00	1.33E+06	0.819
Labeled Injection Standards					
13C12-BDE-79 (IS)	10.66	1.56	50.00	4.73E+06	
13C12-BDE-139 (IS)	15.09	1.37	50.00	1.63E+06	
13C12-BDE-180 (IS)	17.82	1.02	50.00	6.92E+05	
13C12-BDE-206 (IS)	21.54	1.02	250.00	6.83E+06	

ALS Life Sciences

Calibration Report

ALS Sample ID **H9-21-CS#5-009**
Analysis Method EPA 1614
Analysis Type Calibration

Filename	Inst #	Column	Run Date	Approved:	*Ella Gdyczynski*
9-210930B05	HRMS-10	Col#DB5#US1450812H	30-Sep-2021 18:44		--e-signature-- 15-Sep-2021

Target Analytes	Ret. Time	Ion Ratio	Concentration ng/mL	Response	RRF
BDE 10	6.27	0.51	240.00	2.07E+07	0.462
BDE 7	6.64	0.51	240.00	2.26E+07	0.505
BDE 8/11	6.81	0.55	480.00	6.31E+07	0.704
BDE 12/13	6.93	0.64	480.00	6.76E+07	0.754
BDE 15	7.07	0.63	240.00	3.99E+07	0.890
BDE 30	7.77	1.00	240.00	1.82E+07	0.680
BDE 32	8.22	1.00	240.00	2.55E+07	0.955
BDE 17/25	8.38	1.02	480.00	4.17E+07	0.781
BDE 28/33	8.62	1.01	480.00	4.31E+07	0.807
BDE 35	8.77	1.02	240.00	3.27E+07	1.224
BDE 37	8.96	1.02	240.00	3.31E+07	1.238
PBEB	8.97	1.01	240.00	1.97E+07	1.296
PBB 52	9.07	1.52	240.00	1.77E+07	1.165
HBB	9.95	0.40	240.00	1.63E+07	1.073
BDE 75	10.02	0.69	240.00	2.00E+07	0.790
BDE 51	10.08	0.72	240.00	2.24E+07	0.884
BDE 49	10.18	0.73	240.00	1.54E+07	0.609
BDE 71	10.25	0.71	240.00	1.49E+07	0.587
BDE 47	10.51	0.67	240.00	2.27E+07	0.992
BDE 79	10.67	0.68	240.00	2.67E+07	1.055
BDE 66	10.8	0.68	240.00	1.52E+07	0.599
BDE 77	11.27	0.68	240.00	2.68E+07	0.965
PBB 101	11.42	1.02	480.00	3.75E+07	0.739
BDE 100	12.15	1.02	360.00	3.33E+07	0.889
BDE 119/120	12.33	1.02	720.00	3.45E+07	0.547
BDE 99	12.66	1.02	360.00	2.30E+07	0.966
BDE 116	12.81	1.03	360.00	1.15E+07	0.365
BDE 83	12.95	1.01	360.00	1.31E+07	0.415
BDE 118	13.06	1.02	360.00	1.61E+07	0.510
BDE 85	13.56	1.02	360.00	1.90E+07	0.603
BDE 126	13.72	1.02	360.00	3.11E+07	0.932
BDE 105	13.88	1.03	360.00	1.69E+07	0.535
PBB 153	14.05	1.36	480.00	2.98E+07	1.158
BDE 155	13.72	1.36	480.00	3.66E+07	1.422
BDE 154	14.1	1.36	480.00	3.17E+07	0.964
BDE 153	14.83	1.36	480.00	2.04E+07	1.093
BDE 140	15.29	1.36	480.00	2.50E+07	0.972
BDE 138/166	15.79	1.38	960.00	3.13E+07	0.608
BDE 156	16.16	1.36	480.00	1.30E+07	0.504
BDE 128	16.78	1.36	480.00	1.41E+07	0.547
BDE 184	16.6	1.03	600.00	2.85E+07	1.280
BDE 183	16.97	1.02	600.00	1.92E+07	0.864
BDE 191	17.53	1.03	600.00	1.47E+07	0.661
BDE 181	18.07	1.02	600.00	1.51E+07	0.679
BDE 190	18.23	1.03	600.00	1.11E+07	0.499
PBB 180	17.08	1.03	480.00	1.62E+07	0.912
BDE 197	19.44	0.81	600.00	1.62E+07	0.861
BDE 203	19.71	0.81	600.00	1.37E+07	0.727
BDE 196	19.83	0.82	600.00	1.63E+07	0.867
PBB 194	19.91	1.28	480.00	1.01E+07	0.670
BDE 208	21.15	1.02	1200.00	6.61E+07	1.028
BDE 207	21.28	1.01	1200.00	6.64E+07	1.033
BDE 206	21.55	1.04	1200.00	5.50E+07	0.856
PBB 206	21	1.00	1200.00	2.11E+07	0.328
PBB 209	21.91	1.26	1200.00	2.12E+07	0.330
BDE 209	23.23	1.27	1200.00	2.86E+07	1.031
DBDPE	24.66	1.03	2400.00	4.14E+07	1.056
Extraction Standards					
13C12 BDE 15	7.07	0.52	50.00	9.34E+06	1.656
13C12 BDE 28	8.62	1.03	50.00	5.57E+06	0.987
13C6 HBB	9.95	2.57	50.00	3.16E+06	0.560
13C12 BDE 47	10.5	1.56	50.00	4.77E+06	0.846
13C12 BDE 77	11.27	1.55	50.00	5.79E+06	1.026
13C12 BDE 100	12.15	1.03	50.00	5.20E+06	2.676
13C12 BDE 99	12.65	1.03	50.00	3.30E+06	1.700
13C12 BDE 126	13.72	1.04	50.00	4.63E+06	2.383
13C12 BDE 154	14.09	1.36	50.00	3.43E+06	1.763
13C12 BDE 153	14.83	1.36	50.00	1.94E+06	0.998
13C12 BDE 183	16.96	1.03	50.00	1.85E+06	1.980
13C12 BDE 197	19.43	0.81	100.00	3.14E+06	1.678
13C12 BDE 207	21.27	1.03	250.00	1.34E+07	1.238
13C12 BDE 209	23.23	1.28	250.00	5.79E+06	0.535
13C14 DBDPE	24.65	1.05	500.00	8.18E+06	0.378
Cleanup Standard					
13C12 BDE 138 Cleanup	15.78	1.38	50.00	1.82E+06	0.938
Labeled Injection Standards					
13C12-BDE-79 (IS)	10.66	1.54	50.00	5.64E+06	
13C12-BDE-139 (IS)	15.09	1.37	50.00	1.94E+06	
13C12-BDE-180 (IS)	17.82	1.02	50.00	9.36E+05	
13C12-BDE-206 (IS)	21.54	1.03	250.00	1.08E+07	

ALS Life Sciences

Continuing Calibration Report

Sample Name	**CCV**	Sampling Date	n/a		
ALS Sample ID	H9-21-RS#2-009	Extraction Date	n/a		Approved:
Analysis Method	EPA 1614	Sample Size	1	n/a	*Ella Gdyczynski*
Analysis Type	CCV	Percent Moisture	n/a		--e-signature--
Sample Matrix	QC	Split Ratio	1		15-Sep-2021

Run Information	**Run 1**
Filename	9-210930B07
Run Date	30-Sep-21 19:57
Final Volume	40 uL
Dilution Factor	1
Analysis Units	%
Instrument - Column	HRMS-10 DB5US1450812

Target Analytes	**pg/uL**	**Ret. Time**	**% Rec**	**Limits**	**Flags**
BDE 10	50	6.27	120	70-130	
BDE 7	50	6.64	125	70-130	
BDE 8/11					
BDE 12/13					
BDE 15	50	7.07	117	70-130	
BDE 30	50	7.76	121	70-130	
BDE 32					
BDE 17/25	50	8.37	135	70-130	
BDE 28/33	50	8.62	146	70-130	
BDE 35					
BDE 37					
HBB	50	9.95	101	70-130	
BDE 75					
BDE 51					
BDE 49	100	10.18	104	70-130	
BDE 71	100	10.24	116	70-130	
BDE 47	100	10.51	112	70-130	
BDE 79					
BDE 66	100	10.80	99	70-130	
BDE 77	100	11.27	109	70-130	
BDE 100	100	12.15	114	70-130	
BDE 119/120	100	12.31	151	70-130	
BDE 99	100	12.65	115	70-130	
BDE 116					
BDE 83					
BDE 118					
BDE 85	100	13.54	117	70-130	
BDE 126	100	13.72	111	70-130	
BDE 105					
BDE 155					
BDE 154	100	14.09	109	70-130	
BDE 153	100	14.83	105	70-130	
BDE 140	100	15.29	100	70-130	
BDE 138/166	100	15.78	118	70-130	
BDE 156	200	16.15	156	70-130	
BDE 128					
BDE 184	200	16.60	107	70-130	
BDE 183	200	16.96	131	70-130	
BDE 191	200	17.52	102	70-130	
BDE 181					
BDE 190					
BDE 197	200	19.43	110	70-130	
BDE 203	200	19.71	88	70-130	
BDE 196	200	19.83	92	70-130	
BDE 208	500	21.15	109	70-130	
BDE 207	500	21.27	117	70-130	
BDE 206	500	21.54	108	70-130	
BDE 209	500	23.22	110	50-200	

Extraction Standards	**pg/uL**		**% Rec**	**Limits**
13C12 BDE 15	50	7.06	113	50-150
13C12 BDE 28	50	8.60	105	50-150
13C6 HBB	50	9.94	94	50-150
13C12 BDE 47	50	10.50	106	50-150
13C12 BDE 77	50	11.26	103	50-150
13C12 BDE 100	50	12.14	105	50-150
13C12 BDE 99	50	12.65	99	50-150
13C12 BDE 126	50	13.71	91	50-150
13C12 BDE 154	50	14.08	96	50-150
13C12 BDE 153	50	14.82	90	50-150
13C12 BDE 183	50	16.96	91	50-150
13C12 BDE 197	100	19.43	108	50-150
13C12 BDE 207	250	21.27	104	50-150
13C12 BDE 209	250	23.21	95	25-200

Cleanup Standard	**pg/uL**			
13C12 BDE 138 Cleanup	50	15.78	86	40-125

ALS Life Sciences

Continuing Calibration Report

Sample Name	**CCV**	Sampling Date	n/a		
ALS Sample ID	H9-21-RS#3-009	Extraction Date	n/a		Approved:
Analysis Method	EPA 1614	Sample Size	1	n/a	*Ella Gdyczynski*
Analysis Type	CCV	Percent Moisture	n/a		--e-signature--
Sample Matrix	QC	Split Ratio	1		15-Sep-2021

Run Information	**Run 1**
Filename	9-210930B08
Run Date	30-Sep-21 20:33
Final Volume	40 uL
Dilution Factor	1
Analysis Units	%
Instrument - Column	HRMS-10 DB5US1450812

Target Analytes	**pg/uL**	**Ret. Time**	**% Rec**	**Limits**	**Flags**
BDE 10					
BDE 7					
BDE 8/11					
BDE 12/13					
BDE 15					
BDE 30					
BDE 32					
BDE 17/25	50	8.38	132	70-130	
BDE 28/33	50	8.62	133	70-130	
BDE 35					
BDE 37					
HBB					
BDE 75					
BDE 51					
BDE 49					
BDE 71	50	10.25	101	70-130	
BDE 47	50	10.51	107	70-130	
BDE 79					
BDE 66	50	10.80	102	70-130	
BDE 77					
BDE 100	50	12.15	105	70-130	
BDE 119/120					
BDE 99	50	12.66	110	70-130	
BDE 116					
BDE 83					
BDE 118					
BDE 85	50	13.56	107	70-130	
BDE 126					
BDE 105					
BDE 155					
BDE 154	50	14.10	100	70-130	
BDE 153	50	14.83	95	70-130	
BDE 140					
BDE 138/166	75	15.79	120	70-130	
BDE 156					
BDE 128					
BDE 184					
BDE 183	50	16.97	116	70-130	
BDE 191					
BDE 181					
BDE 190					
BDE 197					
BDE 203					
BDE 196					
BDE 208					
BDE 207					
BDE 206					
BDE 209	200	23.23	95	50-200	

Extraction Standards	**pg/uL**		**% Rec**	**Limits**
13C12 BDE 15	50	7.07	97	50-150
13C12 BDE 28	50	8.62	97	50-150
13C6 HBB	50	9.95	92	50-150
13C12 BDE 47	50	10.51	103	50-150
13C12 BDE 77	50	11.27	100	50-150
13C12 BDE 100	50	12.15	108	50-150
13C12 BDE 99	50	12.65	103	50-150
13C12 BDE 126	50	13.72	91	50-150
13C12 BDE 154	50	14.09	96	50-150
13C12 BDE 153	50	14.83	95	50-150
13C12 BDE 183	50	16.96	105	50-150
13C12 BDE 197	100	19.43	96	50-150
13C12 BDE 207	250	21.27	96	50-150
13C12 BDE 209	250	23.22	121	25-200

Cleanup Standard	**pg/uL**			
13C12 BDE 138 Cleanup	50	15.78	93	40-125

ALS Life Sciences

Continuing Calibration Report

Sample Name	**CCV**	Sampling Date	n/a		
ALS Sample ID	H9-21-CCV-779	Extraction Date	n/a		Approved:
Analysis Method	EPA 1614	Sample Size	1	n/a	*Ella Gdyczynski*
Analysis Type	CCV	Percent Moisture	n/a		--e-signature--
Sample Matrix	QC	Split Ratio	1		15-Sep-2021

Run Information	**Run 1**
Filename	9-210930B23
Run Date	01-Oct-21 10:04
Final Volume	40 uL
Dilution Factor	1
Analysis Units	%
Instrument - Column	HRMS-10 DB5US1450812

Target Analytes	**pg/uL**	**Ret. Time**	**% Rec**	**Limits**	**Flags**
BDE 10	20	6.28	103	70-130	
BDE 7	20	6.65	96	70-130	
BDE 8/11	40	6.81	98	70-130	
BDE 12/13	40	6.93	100	70-130	
BDE 15	20	7.07	102	70-130	
BDE 30	20	7.77	106	70-130	
BDE 32	20	8.23	102	70-130	
BDE 17/25	40	8.39	102	70-130	
BDE 28/33	40	8.63	103	70-130	
BDE 35	20	8.77	94	70-130	
BDE 37	20	8.96	93	70-130	
HBB	20	9.97	100	70-130	
BDE 75	20	10.02	108	70-130	
BDE 51	20	10.09	114	70-130	
BDE 49	20	10.19	109	70-130	
BDE 71	20	10.25	114	70-130	
BDE 47	20	10.53	102	70-130	
BDE 79	20	10.69	105	70-130	
BDE 66	20	10.81	102	70-130	
BDE 77	20	11.28	103	70-130	
BDE 100	30	12.17	102	70-130	
BDE 119/120	60	12.34	101	70-130	
BDE 99	30	12.66	103	70-130	
BDE 116	30	12.82	94	70-130	
BDE 83	30	12.96	101	70-130	
BDE 118	30	13.07	97	70-130	
BDE 85	30	13.56	93	70-130	
BDE 126	30	13.73	101	70-130	
BDE 105	30	13.89	94	70-130	
BDE 155	40	13.73	105	70-130	
BDE 154	40	14.10	99	70-130	
BDE 153	40	14.84	102	70-130	
BDE 140	40	15.30	93	70-130	
BDE 138/166	80	15.80	51	70-130	R
BDE 156	40	16.17	81	70-130	
BDE 128	40	16.79	83	70-130	
BDE 184	50	16.61	99	70-130	
BDE 183	50	16.98	102	70-130	
BDE 191	50	17.54	91	70-130	
BDE 181	50	18.08	90	70-130	
BDE 190	50	18.23	88	70-130	
BDE 197	50	19.44	102	70-130	
BDE 203	50	19.72	87	70-130	
BDE 196	50	19.85	91	70-130	
BDE 208	100	21.17	85	70-130	
BDE 207	100	21.28	103	70-130	
BDE 206	100	21.55	108	70-130	
BDE 209	100	23.23	101	50-200	

Extraction Standards	**pg/uL**		**% Rec**	**Limits**
13C12 BDE 15	50	7.07	130	50-150
13C12 BDE 28	50	8.62	115	50-150
13C6 HBB	50	9.95	109	50-150
13C12 BDE 47	50	10.51	99	50-150
13C12 BDE 77	50	11.27	96	50-150
13C12 BDE 100	50	12.15	107	50-150
13C12 BDE 99	50	12.66	103	50-150
13C12 BDE 126	50	13.72	100	50-150
13C12 BDE 154	50	14.10	107	50-150
13C12 BDE 153	50	14.84	96	50-150
13C12 BDE 183	50	16.97	105	50-150
13C12 BDE 197	100	19.44	106	50-150
13C12 BDE 207	250	21.28	92	50-150
13C12 BDE 209	250	23.23	102	25-200

Cleanup Standard	**pg/uL**			
13C12 BDE 138 Cleanup	50	15.79	93	40-125

R Indicates that the ion abundance ratio for this compound did not meet the acceptance criterion.

ALS Life Sciences

Continuing Calibration Report

Sample Name	**CCV**	Sampling Date	n/a		
ALS Sample ID	H9-21-CCV-780	Extraction Date	n/a		Approved:
Analysis Method	EPA 1614	Sample Size	1	n/a	*Ella Gdyczynski*
Analysis Type	CCV	Percent Moisture	n/a		--e-signature--
Sample Matrix	QC	Split Ratio	1		15-Sep-2021

Run Information	**Run 1**
Filename	9-211001A15
Run Date	01-Oct-21 22:16
Final Volume	40 uL
Dilution Factor	1
Analysis Units	%
Instrument - Column	HRMS-10 DB5US1450812

Target Analytes	**pg/uL**	**Ret. Time**	**% Rec**	**Limits**	**Flags**
BDE 10	20	6.27	100	70-130	
BDE 7	20	6.64	101	70-130	
BDE 8/11	40	6.81	104	70-130	
BDE 12/13	40	6.93	106	70-130	
BDE 15	20	7.07	105	70-130	
BDE 30	20	7.77	106	70-130	
BDE 32	20	8.22	105	70-130	
BDE 17/25	40	8.38	104	70-130	
BDE 28/33	40	8.62	105	70-130	
BDE 35	20	8.77	109	70-130	
BDE 37	20	8.96	111	70-130	
HBB	20	9.97	101	70-130	
BDE 75	20	10.02	105	70-130	
BDE 51	20	10.09	104	70-130	
BDE 49	20	10.18	104	70-130	
BDE 71	20	10.25	109	70-130	
BDE 47	20	10.51	105	70-130	
BDE 79	20	10.69	105	70-130	
BDE 66	20	10.80	106	70-130	
BDE 77	20	11.28	106	70-130	
BDE 100	30	12.17	104	70-130	
BDE 119/120	60	12.34	101	70-130	
BDE 99	30	12.66	103	70-130	
BDE 116	30	12.82	96	70-130	
BDE 83	30	12.96	98	70-130	
BDE 118	30	13.07	106	70-130	
BDE 85	30	13.56	105	70-130	
BDE 126	30	13.73	104	70-130	
BDE 105	30	13.89	109	70-130	
BDE 155	40	13.73	97	70-130	
BDE 154	40	14.10	102	70-130	
BDE 153	40	14.84	102	70-130	
BDE 140	40	15.30	110	70-130	
BDE 138/166	80	15.80	111	70-130	
BDE 156	40	16.18	118	70-130	
BDE 128	40	16.79	123	70-130	
BDE 184	50	16.61	98	70-130	
BDE 183	50	16.98	103	70-130	
BDE 191	50	17.54	103	70-130	
BDE 181	50	18.08	99	70-130	
BDE 190	50	18.24	98	70-130	
BDE 197	50	19.46	102	70-130	
BDE 203	50	19.72	100	70-130	
BDE 196	50	19.85	105	70-130	
BDE 208	100	21.17	99	70-130	
BDE 207	100	21.28	99	70-130	
BDE 206	100	21.56	111	70-130	
BDE 209	100	23.24	102	50-200	

Extraction Standards	**pg/uL**		**% Rec**	**Limits**
13C12 BDE 15	50	7.07	95	50-150
13C12 BDE 28	50	8.62	96	50-150
13C6 HBB	50	9.95	87	50-150
13C12 BDE 47	50	10.51	96	50-150
13C12 BDE 77	50	11.27	102	50-150
13C12 BDE 100	50	12.15	92	50-150
13C12 BDE 99	50	12.66	97	50-150
13C12 BDE 126	50	13.73	103	50-150
13C12 BDE 154	50	14.10	84	50-150
13C12 BDE 153	50	14.84	100	50-150
13C12 BDE 183	50	16.97	88	50-150
13C12 BDE 197	100	19.44	91	50-150
13C12 BDE 207	250	21.28	92	50-150
13C12 BDE 209	250	23.24	99	25-200

Cleanup Standard	**pg/uL**			
13C12 BDE 138 Cleanup	50	15.79	104	40-125

ALS Life Sciences

Continuing Calibration Report

Sample Name	**CCV**	Sampling Date	n/a		
ALS Sample ID	H9-21-CCV-782	Extraction Date	n/a		Approved:
Analysis Method	EPA 1614	Sample Size	1	n/a	*Ella Gdyczynski*
Analysis Type	CCV	Percent Moisture	n/a		--e-signature--
Sample Matrix	QC	Split Ratio	1		15-Sep-2021

Run Information	**Run 1**
Filename	9-211001A25
Run Date	02-Oct-21 04:36
Final Volume	40 uL
Dilution Factor	1
Analysis Units	%
Instrument - Column	HRMS-10 DB5US1450812

Target Analytes	**pg/uL**	**Ret. Time**	**% Rec**	**Limits**	**Flags**
BDE 10	20	6.26	104	70-130	
BDE 7	20	6.64	104	70-130	
BDE 8/11	40	6.81	106	70-130	
BDE 12/13	40	6.92	109	70-130	
BDE 15	20	7.07	109	70-130	
BDE 30	20	7.76	106	70-130	
BDE 32	20	8.22	107	70-130	
BDE 17/25	40	8.38	106	70-130	
BDE 28/33	40	8.62	106	70-130	
BDE 35	20	8.76	110	70-130	
BDE 37	20	8.95	111	70-130	
HBB	20	9.95	101	70-130	
BDE 75	20	10.02	96	70-130	
BDE 51	20	10.08	114	70-130	
BDE 49	20	10.18	107	70-130	
BDE 71	20	10.25	109	70-130	
BDE 47	20	10.51	103	70-130	
BDE 79	20	10.67	104	70-130	
BDE 66	20	10.80	108	70-130	
BDE 77	20	11.27	106	70-130	
BDE 100	30	12.15	104	70-130	
BDE 119/120	60	12.33	102	70-130	
BDE 99	30	12.66	104	70-130	
BDE 116	30	12.82	95	70-130	
BDE 83	30	12.95	98	70-130	
BDE 118	30	13.07	106	70-130	
BDE 85	30	13.56	101	70-130	
BDE 126	30	13.73	105	70-130	
BDE 105	30	13.88	107	70-130	
BDE 155	40	13.72	98	70-130	
BDE 154	40	14.10	102	70-130	
BDE 153	40	14.84	101	70-130	
BDE 140	40	15.30	109	70-130	
BDE 138/166	80	15.79	111	70-130	M
BDE 156	40	16.16	112	70-130	
BDE 128	40	16.78	115	70-130	
BDE 184	50	16.60	99	70-130	
BDE 183	50	16.97	103	70-130	
BDE 191	50	17.53	99	70-130	
BDE 181	50	18.08	93	70-130	
BDE 190	50	18.23	98	70-130	
BDE 197	50	19.44	102	70-130	
BDE 203	50	19.71	90	70-130	
BDE 196	50	19.83	101	70-130	
BDE 208	100	21.15	93	70-130	
BDE 207	100	21.27	99	70-130	
BDE 206	100	21.55	108	70-130	
BDE 209	100	23.23	101	50-200	

Extraction Standards	**pg/uL**		**% Rec**	**Limits**
13C12 BDE 15	50	7.06	103	50-150
13C12 BDE 28	50	8.60	100	50-150
13C6 HBB	50	9.95	87	50-150
13C12 BDE 47	50	10.50	97	50-150
13C12 BDE 77	50	11.27	103	50-150
13C12 BDE 100	50	12.15	98	50-150
13C12 BDE 99	50	12.65	102	50-150
13C12 BDE 126	50	13.72	106	50-150
13C12 BDE 154	50	14.09	86	50-150
13C12 BDE 153	50	14.83	99	50-150
13C12 BDE 183	50	16.97	92	50-150
13C12 BDE 197	100	19.44	91	50-150
13C12 BDE 207	250	21.27	95	50-150
13C12 BDE 209	250	23.23	95	25-200

Cleanup Standard	**pg/uL**			
13C12 BDE 138 Cleanup	50	15.79	103	40-125

M Indicates that a peak has been manually integrated.

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SVOC DATA PACKAGE

SECTION 5: QC SAMPLE DATA

Including:

- Laboratory Method Blank Analysis Reports
- Laboratory Control Sample Analysis Reports
- Matrix Spike Analysis Reports
- Other QC Sample Analysis Reports (where applicable)

ALS Life Sciences

Laboratory Method Blank Analysis Report

Sample Name	**Method Blank**	Sampling Date	n/a		
ALS Sample ID	WG3603564-1	Extraction Date	7-Sep-21		Approved:
Analysis Method	EPA 1614	Sample Size	1.00	L	*Ella Gdyczynski*
Analysis Type	Blank	Percent Moisture	n/a		--e-signature--
Sample Matrix	QC	Split Ratio	2		15-Sep-2021

Run Information	**Run 1**
Filename	10-210913B14
Run Date	14-Sep-21 00:46
Final Volume	40 uL
Dilution Factor	1
Analysis Units	pg/L
Instrument - Column	HRMS-10 DB5US1450812

Target Analytes	**Ret. Time**	**Conc. pg/L**	**EDL pg/L**	**Flags**	**EMPC pg/L**	**LQL**
BDE 10	NotFnd	<0.73	0.73	U		80
BDE 7	NotFnd	<0.72	0.72	U		80
BDE 8/11	NotFnd	<0.50	0.50	U		160
BDE 12/13	NotFnd	<0.44	0.44	U		160
BDE 15	NotFnd	<0.37	0.37	U		80
BDE 30	NotFnd	<1.9	1.9	U		80
BDE 32	NotFnd	<1.4	1.4	U		80
BDE 17/25	NotFnd	<1.8	1.8	U		160
BDE 28/33	NotFnd	<1.8	1.8	U		160
BDE 35	NotFnd	<1.3	1.3	U		80
BDE 37	NotFnd	<1.3	1.3	U		80
HBB	10.02	2.55	0.77	M,J		80
BDE 75	NotFnd	<0.84	0.84	U		80
BDE 51	NotFnd	<0.71	0.71	U		80
BDE 49	NotFnd	<1.1	1.1	U		80
BDE 71	NotFnd	<1.1	1.1	U		80
BDE 47	10.57	9.44	0.87	J		80
BDE 79	NotFnd	<0.71	0.71	U		80
BDE 66	NotFnd	<1.2	1.2	U		80
BDE 77	NotFnd	<0.75	0.75	U		80
BDE 100	12.21	1.77	0.88	M,J		120
BDE 119/120	NotFnd	<2.0	2.0	U		120
BDE 99	12.71	<8.6	1.4	J,R	8.6	120
BDE 116	NotFnd	<3.0	3.0	U		120
BDE 83	NotFnd	<2.7	2.7	U		120
BDE 118	NotFnd	<2.3	2.3	U		120
BDE 85	NotFnd	<2.0	2.0	U		120
BDE 126	NotFnd	<1.4	1.4	U		120
BDE 105	NotFnd	<2.3	2.3	U		120
BDE 155	NotFnd	<1.2	1.2	U		160
BDE 154	NotFnd	<1.5	1.5	U		160
BDE 153	NotFnd	<3.3	3.3	U		160
BDE 140	NotFnd	<2.9	2.9	U		160
BDE 138/166	NotFnd	<5.3	5.3	U		320
BDE 156	NotFnd	<8.3	8.3	U		160
BDE 128	NotFnd	<7.2	7.2	U		160
BDE 184	NotFnd	<1.2	1.2	U		200
BDE 183	NotFnd	<1.8	1.8	U		200
BDE 191	NotFnd	<3.0	3.0	U		200
BDE 181	NotFnd	<2.9	2.9	U		200
BDE 190	NotFnd	<4.3	4.3	U		200
BDE 197	NotFnd	<3.3	3.3	U		200
BDE 203	NotFnd	<4.5	4.5	U		200
BDE 196	NotFnd	<3.9	3.9	U		200
BDE 208	NotFnd	<7.0	7.0	U		400
BDE 207	21.34	<8.5	6.0	M,J,R	8.5	400
BDE 206	21.61	8.35	8.0	M,J		400
BDE 209	23.28	53.3	14	M,J		400

Extraction Standards	**pg**		**% Rec**	**Limits**
13C12 BDE 15	2000	7.14	41	25-150
13C12 BDE 28	2000	8.68	56	25-150
13C6 HBB	2000	10.01	63	25-150
13C12 BDE 47	2000	10.57	62	25-150
13C12 BDE 77	2000	11.33	82	25-150
13C12 BDE 100	2000	12.20	62	25-150
13C12 BDE 99	2000	12.71	64	25-150
13C12 BDE 126	2000	13.76	76	25-150
13C12 BDE 154	2000	14.15	62	25-150
13C12 BDE 153	2000	14.88	71	25-150
13C12 BDE 183	2000	17.01	68	25-150
13C12 BDE 197	4000	19.49	61	25-150
13C12 BDE 207	10000	21.34	75	25-150
13C12 BDE 209	10000	23.27	67	20-200

Cleanup Standard	**pg**			
13C12 BDE 138 Cleanup	2000	15.83	82	30-135

EDL	Indicates the Estimated Detection Limit, based on the measured background noise for this target in this sample.
LQL	Lower Quantification Limit, based on the lowest calibration level corrected for sample size, splits and dilutions.
M	Indicates that a peak has been manually integrated.
U	Indicates that this compound was not detected above the EDL.
J	Indicates that a target analyte was detected below the calibrated range.
R	Indicates that the ion abundance ratio for this compound did not meet the acceptance criterion.
EMPC	Estimated Maximum Possible Concentration – elevated detection limit due to interference or positive id criterion failure

ALS Life Sciences

Laboratory Control Sample Analysis Report

Sample Name	**Laboratory Control Sample**	Sampling Date	n/a		
ALS Sample ID	WG3603564-2	Extraction Date	7-Sep-21		Approved:
Analysis Method	EPA 1614	Sample Size	1	n/a	*Ella Gdyczynski*
Analysis Type	LCS	Percent Moisture	n/a		--e-signature--
Sample Matrix	QC	Split Ratio	2		15-Sep-2021

Run Information	**Run 1**	**Run 2**
Filename	10-210914A01	9-211001A17
Run Date	14-Sep-21 17:22	01-Oct-21 23:44
Final Volume	40 uL	40 uL
Dilution Factor	5	1
Analysis Units	%	%
Instrument - Column	HRMS-10 DB5US1450812	HRMS-10 DB5US1450812

Target Analytes	**pg**	**Ret. Time**	**% Rec**	**Limits**	**Flags**	**Ret. Time**	**% Rec**	**Flags**
BDE 10	800	6.34	12	5-130				
BDE 7	800	6.72	29	5-130				
BDE 8/11	1600	6.90	92	50-150				
BDE 12/13	1600	6.99	123	5-130	R			
BDE 15	800	7.15	98	50-150				
BDE 30	800	7.85	38	5-130				
BDE 32	800	8.29	112	50-150				
BDE 17/25	1600	8.46	102	50-150				
BDE 28/33	1600	8.69	99	50-150				
BDE 35	800	8.84	92	50-150				
BDE 37	800	9.04	88	50-150				
HBB	800	10.02	96	50-150				
BDE 75	800	10.08	114	50-150	M			
BDE 51	800	10.15	113	50-150	M			
BDE 49	800	10.25	92	50-150				
BDE 71	800	10.32	101	50-150				
BDE 47	800	10.58	101	50-150				
BDE 79	800	10.74	126	50-150	M			
BDE 66	800	10.87	132	50-150	M			
BDE 77	800	11.35	89	50-150	M			
BDE 100	1200	12.22	103	50-150				
BDE 119/120	2400	12.40	106	50-150				
BDE 99	1200	12.73	94	50-150				
BDE 116	1200	12.88	58	40-140				
BDE 83	1200	13.02	100	50-150				
BDE 118	1200	13.14	101	50-150				
BDE 85	1200	13.63	97	50-150	M			
BDE 126	1200	13.80	104	50-150	M			
BDE 105	1200	13.95	95	50-150	M			
BDE 155	1600	13.77	101	50-150				
BDE 154	1600	14.16	101	50-150				
BDE 153	1600	14.90	93	50-150				
BDE 140	1600	15.36	100	50-150				
BDE 138/166	3200	15.89	81	50-150	M,R			
BDE 156	1600	16.23	62	50-150	M,R			
BDE 128	1600	16.86	76	50-150				
BDE 184	2000	16.66	116	50-150				
BDE 183	2000	17.03	104	50-150				
BDE 191	2000	17.60	102	50-150				
BDE 181	2000	18.15	74	50-150				
BDE 190	2000	18.30	53	50-150				
BDE 197	2000	19.51	111	50-150	M			
BDE 203	2000	19.79	82	50-150	M			
BDE 196	2000	19.92	80	50-150	M,R			
BDE 208	4000	21.25	141	50-150				
BDE 207	4000	21.37	113	50-150				
BDE 206	4000	21.64	91	50-150	M			
BDE 209	4000			40-200		23.23	101	
Extraction Standards	**pg**		**% Rec**	**Limits**			**% Rec**	
13C12 BDE 15	2000	7.15	46	25-150				
13C12 BDE 28	2000	8.69	53	30-140				
13C6 HBB	2000	10.02	58	30-140				
13C12 BDE 47	2000	10.58	56	30-140				
13C12 BDE 77	2000	11.34	66	30-140	M			
13C12 BDE 100	2000	12.21	78	30-140				
13C12 BDE 99	2000	12.72	72	30-140				
13C12 BDE 126	2000	13.79	60	30-140				
13C12 BDE 154	2000	14.16	76	30-140				
13C12 BDE 153	2000	14.90	68	30-140				
13C12 BDE 183	2000	17.02	94	30-140				
13C12 BDE 197	4000	19.50	56	30-140				
13C12 BDE 207	10000	21.37	94	30-140	M			
13C12 BDE 209	10000			20-200		23.23	36	
Cleanup Standard	**pg**							
13C12 BDE 138 Cleanup	2000			40-125		15.79	91	

M Indicates that a peak has been manually integrated.

R Indicates that the ion abundance ratio for this compound did not meet the acceptance criterion.

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SVOC DATA PACKAGE

SECTION 6: INTERNAL RECORDS

Including:

- Prep Logs
- Independent calculation checks
- Others as listed below:

Extraction Workup Sheet

Tray #1

Batch ID:	WG3603564	Analysis:	Water - DX/PCB/PBDE
			PBDE protocol
Analyst:	Navdeep Buttar	Date:	7-Sep-21

SUBSAMPLING

Sample I.D.	Client I.D.	Wet Sub-sample (g)
WG3603564-1	Method Blank	1000
WG3603564-2	Laboratory Control Sample	1000
WG3603564-3	Extraction and Injection STD.	—
L2625428-1	FINAL EFFLUENT	1100
	Copper treat DX portion only!	

BATCH TRACKING

	Date/Time/Initials
Bottle volume marked:	7-Sep-21 4:00pm NB
Client Labels Checked:	7-Sep-21 4:00pm NB
Samples Spiked	7-Sep-21 5:00pm NB
Samples Filtered:	—
Liquid/Liquid extraction:	7-Sep-21 7:00pm NB
Soxhlet start time:	—
Soxhlet reflux properly:	—
Soxhlet end time:	—
Rotovap Reduction:	9-Sep-21 KN
Rotovap Temp Verified:	9-Sep-21 KN
Acid Column:	9-Sep-21 KN
Split:	9-Sep-21 5:40pm NB
Alumina Column:	9-Sep-21 NB
Carbon Column:	10-Sept-21 AM
N-Evap Temp Verified:	10-Sept-21 AM
Micro/Robo Vial: PCB/PBDE	9-Sep-21 MNS

Batch ID:	WG3603564

DX Extraction Standard:

Sample I.D.	Volume (ul)	(Checkmark) Spiked
WG3603564-1	40	✓
WG3603564-2	40	✓
WG3603564-3	40	✓
L2625428-1	40	✓
	40	
	40	
	40	
	40	
	40	
	40	
	40	
	40	
	40	
	40	
	40	
	40	

Syringe ID: 318

Standard: 1613B-ES#1-093D

Spike Date: 07-Sep-21

Spike Witnessing

Chemist: NS (Chemist's Initials)

Witness: GG (Witness's Initials)

Correct Syringe Obtained: GG (Witness's Initials)

Correct Standard Obtained: GG (Witness's Initials)

Correct Technique Followed: GG (Witness's Initials)

PCB Extraction Standard:

Sample I.D.	Volume (ul)	(Checkmark) Spiked
WG3603564-1	40	✓
WG3603564-2	40	✓
WG3603564-3	40	✓
L2625428-1	40	✓
	40	
	40	
	40	
	40	
	40	
	40	
	40	
	40	
	40	
	40	
	40	
	40	

Syringe ID: 382

Standard: 1668A-ES#2-075J

Spike Date: 07-Sep-21

Spike Witnessing

Chemist: NS (Chemist's Initials)

Witness: GG (Witness's Initials)

Correct Syringe Obtained: GG (Witness's Initials)

Correct Standard Obtained: GG (Witness's Initials)

Correct Technique Followed: GG (Witness's Initials)

Batch ID:	WG3603564

PBDE Extraction Standard:

Sample I.D.	Volume (ul)	(Checkmark) Spiked
WG3603564-1	40	✓
WG3603564-2	40	✓
WG3603564-3	40	✓
L2625428-1	40	✓
	40	
	40	
	40	
	40	
	40	
	40	
	40	
	40	
	40	
	40	
	40	
	40	

Syringe ID: 169

Standard: PBDEX-ES#1- 008D

Spike Date: 07-Sep-21

07-Sep-21 GG

Spike Witnessing

Chemist's Initials

Chemist: NB

Witness's Initials

Witness: GG

Witness's Initials

Correct Syringe Obtained: GG

Witness's Initials

Correct Standard Obtained: GG

Witness's Initials

Correct Technique Followed: GG

DX Native Standard:

Sample I.D.	Volume (ul)	(Checkmark) Spiked
WG3603564-2	40	✓
WG3603564-3	40	✓

Syringe ID: 322

Standard: 1613B-NS#3- 035B

Date & Initials: 7-Sep-21 NB

PCB Native Standard:

Sample I.D.	Volume (ul)	(Checkmark) Spiked
WG3603564-2	40	✓
WG3603564-3	40	✓

Syringe ID: 394

Standard: 1668A-NS#1- 043F

Date & Initials: 7-Sep-21 NB

PBDE Native Standard:

Sample I.D.	Volume (ul)	(Checkmark) Spiked
WG3603564-2	40	✓
WG3603564-3	40	✓

Syringe ID: 324

Standard: PBDEX-NS#1- 005B

Date & Initials: 7-Sep-2021 NB

Batch ID:	WG3603564

DX Cleanup Standard:

Sample I.D.	Volume (ul)	(Checkmark) Spiked
WG3603564-1	20	✓
WG3603564-2	20	✓
WG3603564-3	20	N/A
L2625428-1	20	✓
	20	
	20	
	20	
	20	
	20	
	20	
	20	
	20	
	20	
	20	
	20	

Syringe ID: 399

Standard: 1613B-CL#2- 080B

Date & Initials: 9-Sep-21 KM

Chemist's Initials

Correct Syringe Obtained: KM

Chemist's Initials

Correct Standard Obtained: KM

Chemist's Initials

Correct Technique Followed: KM

PCB Cleanup Standard:

Sample I.D.	Volume (ul)	(Checkmark) Spiked
WG3603564-1	20	✓
WG3603564-2	20	✓
WG3603564-3	20	N/A
L2625428-1	20	✓
	20	
	20	
	20	
	20	
	20	
	20	
	20	
	20	
	20	
	20	

Syringe ID: 378

Standard: 1668A-CL#2- 041G

Date & Initials: 9-Sep-21 KM

Chemist's Initials

Correct Syringe Obtained: KM

Chemist's Initials

Correct Standard Obtained: KM

Chemist's Initials

Correct Technique Followed: KM

Batch ID:	WG3603564

PBDE Cleanup Standard:

Sample I.D.	Volume (ul)	(Checkmark) Spiked
WG3603564-1	20	✓
WG3603564-2	20	✓
WG3603564-3	20	N/A
L2625428-1	20	✓
	20	
	20	
	20	
	20	
	20	
	20	
	20	
	20	
	20	
	20	

Syringe ID: 386

Standard: PBDEX-CL#1- 005E

Date & Initials: 9-Sep-21 KM

Correct Syringe Obtained: KM (Chemist's Initials)

Correct Standard Obtained: KM (Chemist's Initials)

Correct Technique Followed: KM (Chemist's Initials)

PCB Injection Standard:

Sample I.D.	Volume (ul)	(Checkmark) Spiked
WG3603564-1	5	✓
WG3603564-2	5	✓
WG3603564-3	5	✓
L2625428-1	5	✓
	5	
	5	
	5	
	5	
	5	
	5	
	5	
	5	
	5	
	5	
	5	
	5	
	5	
	5	
	5	
	5	
	5	

Syringe ID: 407

Standard: 1668A-IS#2- 016C

Date & Initials: 9-Sep-21 NS

Correct Syringe Obtained: NS (Chemist's Initials)

Correct Standard Obtained: NS (Chemist's Initials)

Correct Technique Followed: NS (Chemist's Initials)

Batch ID:	WG3603564

PBDE Injection Standard:

Sample I.D.	Volume (ul)	Spiked (Checkmark)
WG3603564-1	5	✓
WG3603564-2	5	✓
WG3603564-3	5	✓
L2625428-1	5	✓
	5	
	5	
	5	
	5	
	5	
	5	
	5	
	5	
	5	
	5	
	5	
	5	
	5	
	5	
	5	
	5	
	5	

Syringe ID: 341

Standard: PBDEX-IS#1- 003E

Date & Initials: 9-Sep-21 NB

Correct Syringe Obtained: (Chemist's Initials) NB

Correct Standard Obtained: (Chemist's Initials) NB

Correct Technique Followed: (Chemist's Initials) NB

DX Injection Standard:

Sample I.D.	Volume (ul)	Spiked (Checkmark)
WG3603564-1	10	✓
WG3603564-2	10	✓
WG3603564-3	10	✓
L2625428-1	10	✓
	10	
	10	
	10	
	10	
	10	
	10	
	10	
	10	
	10	
	10	
	10	
	10	
	10	
	10	
	10	
	10	
	10	
	10	

Syringe ID: 408

Standard: 1613B-IS#1-093A

Date & Initials: 10-Sept-21 AM

Correct Syringe Obtained: (Chemist's Initials) AM

Correct Standard Obtained: (Chemist's Initials) AM

Correct Technique Followed: (Chemist's Initials) AM

Batch ID:	WG3603564

Procedure:

This batchsheet is a guideline only. Please see test procedure for complete set of instructions.
Extraction:
- Mark the liquid level on the sample bottle. **Sample Size = 1L**
- Spike Extraction Standard in to ~1ml of Acetone, then add to the sample bottle with 2 acetone rinses.
- Add 100mL DCM to sample bottle, then add to sep funnel, shake for 2mins, collect DCM in flask
- Repeat two more times, combine with first extraction. Elute 50mL DCM through allihn filter
- Fill the original sample bottle up to the mark with tap water, then measure and record the volume using a grad cylinder.
- Roto-vap down to ~2ml
- Transfer to a c-tube with 3x2ml Hexane rinses.
- Reduce to 1mL and spike cleanup standards.
- Perform Acid Silica column
- Elute to 50ml with Hexane.
Reduce to 2mL and Split **1/2 DX** **1/2 PCB/PBDE**

-Perform Copper treatment only for DX portion
PCB/PBDE
- Reduce to 50uL, bulk up with 1mL of Hexane
- Perform Alumina Column:
• Pre-elute the Alumina Column with 7ml Hexane
• Place F1 c-tube under the column, then load the sample with 3x 1ml Hexane Rinses
• F1 1mL of Hexane
• Place F2 c-tube under the column. Ensure ctube is accurately marked for split
• F2 (DX/PCB/PBDE) **25ml** 1:1 DCM:Hexane
- Blow down to ~500ul
PCB/PBDE:
- Vortex **very** well.
- Transfer every last drop to a micro-vial (no rinses).
- Blow down **VERY GENTLY** to the mark. (Micro-vial should contain **30ul Toluene**, and the level should be marked with a **fine tipped black marker**.)
- Spike PCB and PBDE Injection Standards. Cap and Vortex **FV = 40ul**

DX:

- Carbon Column: - 4cm of well-packed chroma-carb.
  - Pre-elute Carbon with 5ml Hexane
  - Transfer with 3x1ml Hexane
  - F1 = **10ml** 1:1 DCM:Hexane (Archive)
  - After dripping has stopped Invert Column.
  - F2 = 14ml Toluene (DX)

- After the column has stopped dripping reduce the **F2** portion down to ~1/2ml.

- Vortex well, then transfer to a micro-vial without rinses.
- Blow the micro-vial down to just-dry.
- Spike with Injection Standard, Cap the micro-vial, and Vortex. **FV=10ul**

Approval of Deviation from Standard Method

(Batch Writer): _____

☐ Procedure does deviate from Standard Method. **Approved (Supervisor/Manager):** _____

Comments:

- Label and save all columns.

Reagent Lot Numbers:

Reagent	Lot#	Comment
Acetone	106330	
Hexane	106342	
DCM	106344	
Toluene	106301	
Nonane	ORG-WAKONON- 061	
1:1 DCM:HEX	ORG-DH2- 713	
Sodium Sulphate	ORG-SSU- 2713	
Acid Silica	ORG-ASI- 10270, 10274, 10280	
Neutral Silica	ORG-NSI- 2658	
Alumina	ORG-ALU- 515	
Chromacarb	ORG-CC- 312	

Re-column/Re-work Requisition Form

Workgroup	WG3603564	
Samples	Rework 1: combine the extract with the alumina F1, submit for analysis	Rework 2:
WG3603564-1		
WG3603564-2	x	
WG3603564-3		
L2625428-1		

	Initials	Date
Column:	—	—
Microvial:	ACB	16-Sept-21
Spiking	—	—

Initials	Standards Used:
—	—

Reagent Lot Numbers:

Reagent	Lot#	Manufacturer
Copper	—	
Hexane	—	
DCM	—	
Toluene	—	
1:1 DCM:HEX	—	
Sodium Sulphate	—	
Acid Silica	—	
Neutral Silica	—	
Florisil	—	
Alumina	—	
Nitrogen	—	
Chromacarb	—	

	Initials	Date	Analysis
Re-Work Sent to Prep:	EG	15-Sep-21	PBDE

~~alumina F1 (W2) was found dry, bulk up with hexane and vortexed immediately and proceeded. ACB 16 Sept-21~~

ignore comment, was looking at wrong sample initially ACB 16-Sept-21

If all samples from a batch are being sent for remedial re-work or procedural re-work, be sure to include QC samples. If selected samples are being sent for remedial re-work, create a procedural blank which will receive the prescribed re-work.

ALS Life Sciences

Sample Calculation Report

Approved: *Ella Gdyczynski* --e-signature-- 15-Sep-2021

CS3 RRF Check

$$RRF = \frac{\text{Response of BDE-99}}{\text{Response of 13C12-BDE-99}} \times \frac{\text{Concentration of 13C12-BDE-99}}{\text{Concentration of BDE-99}}$$

							Calculated Value	Value from TargetLynx	
RRF	**=**	**131604.80** / **254071.80**	**x**	**50.00** / **30**		**=**	**0.86**	**0.86**	

Calculation of BDE-99 amount in L2625428-1

$$pg/L = \frac{\text{Response of BDE-99}}{\text{Response of 13C12-BDE-99}} \times \frac{\text{pg of 13C12-BDE-99 spiked}}{\text{Mean RRF} * \text{Sample Size}}$$

pg/L	**=**	**510850.2** / **141999.9**	**x**	**2000** / **0.82**	*****	**1.10**	**=**	**7940**	**7940**

Calculation of 13C12-BDE-99 Recovery in L2625428-1

$$\%\ Recovery = \frac{\text{Response of 13C12-BDE-99}}{\text{Response of 13C12-BDE-139}} \times \frac{\text{pg of 13C12-BDE-139 spiked} * 100}{\text{Mean RRF} * \text{Amount Spiked}}$$

% Recovery	**=**	**141999.9** / **138444.7**	**x**	**2000** / **1.82**	*****	**100** / **2000**	**=**	**56**	**56**	**%**

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SVOC DATA PACKAGE

SECTION 7: SHIPPING/RECEIVING DOCUMENTS

Including:

- Airbills
- Chain-of-Custody Records
- Sample Log-in Sheet(s) - where applicable
- Others as listed below:

ALS Environmental Chain of Custody

1317 South 13th Avenue • Kelso, WA 98626 • 1-360-577-7222 • FAX 1-360-636-1068

ALS Contact: Sydney A. Wolf

Project Number: K2109142
Project Manager: Sydney A. Wolf
QAP: LAB QAP

Lab Code	Sample ID	# of Cont.	Matrix	Sample Date	Sample Time	Lab ID	Cl Biphen Cong 1668C	Dioxins Furans 1613B	Misc Out 1 None	Misc Out 2 None
K2109142-001	Final Effluent	3	Water	8/4/21		Burlington ALS	X	X		X
K2109142-002	Incin. Feed	1	Soil	8/4/21		Burlington ALS	X	X	X	

L2625428-COFC

Test Comments

Dioxins Furans - 1613B	K2109142-001,2	Burlington
Cl Biphen Cong - 1668C	K2109142-002	Burlington
Misc Out 1 - None	K2109142-002	PBDEs Burlington
Misc Out 2 - None	K2109142-001	PBDEs Burlington

Special Instructions/Comments
Please provide the electronic (PDF and EDD) report to the following e-mail address: ALKLS.Data@alsglobal.com.

H - Test is On Hold P - Test is Authorized for Prep Only

Turnaround Requirements
____ **RUSH** (Surcharges Apply)
PLEASE CIRCLE WORK DAYS
1 2 3 4 5
X **STANDARD**
Requested FAX Date: _____
Requested Report Date: 09/08/21

Report Requirements
____ I. Results Only
____ II. Results + QC Summaries
____ III. Results + QC and Calibration Summaries
X IV. Data Validation Report with Raw Data
PQL/MDL/J Y
EDD N

Invoice Information
PO# 51K2109142
Bill to

Relinquished By: ALS Canada Ltd. 8/9/21 Received By: L2625428-COFC PBDE DPKG 2447118 Airbill Number:

8/9/21 15:40 3.8°C

Sample Receiving Log

Date/Time Received	Client ID	Number/Description of Containers	Temp. on Receipt*	Condition of Samples, Courier & Tracking Information	Receiver's Initials	Date/Time Login Completed	Submission ID L2625333	Sample ID Range -1-17
10-Aug-24 15:40	ALS KELSO	44 x jars of sediment 28 x 1L amber bottles	3.8°C	Good FedEx 9340 2499 2668	NJ	11-Aug-2024 16:10	L2625409 L2625400 L2625332 L2625417 L2625428	-1-18 -1-13 -1-11 -1-5 -1.2

[redacted]

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SVOC DATA PACKAGE

Client Project Information

Project ID: K2109142
Project Description:
Contact: Sydney Wolf

ALSE Project Information

Project ID: ALS880
Contact: Claire Kocharakkal
Submission ID(s): L2625428-2

Final Package Review by: _____

Date Reviewed: 17-Nov-21

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SVOC DATA PACKAGE

SECTION 1: PROJECT NARRATIVE

ALSE Project Information

Project ID: ALS880

Contact: Claire Kocharakkal

Submission ID(s): L2625428-2

Client Project Information

Project ID: K2109142

Project Description:

Contact: Sydney Wolf

Analytical Method: Brominated Flame Retardants by EPA 1614

ALS Sample ID	Client Sample Descriptions	Matrix	Date Sampled	Date Received	Date Extracted	Date Analyzed
L2625428-2	INCIN. FEED	Soil	04-Aug-21	10-Aug-21	03-Sep-21	14-Sep-21
WG3603574-1	Method Blank	Qc	n/a	n/a	03-Sep-21	14-Sep-21
WG3603574-2	Laboratory Control Sample	Qc	n/a	n/a	03-Sep-21	13-Sep-21

Comments and Notes:
a) Sample Integrity:

The sample was received in good condition at 3.8 degrees C.

b) Instrumental Analysis:

All results have been reported on a dry weight basis.

The recoveries of some targets are above the method control limit for the calibration verification standards (independent source) (CVSs). Many are cases where the relative response factors have been derived from an initial calibration that contains both targets, and the CVS contains only one target. For BDE-85 and BDE-183, the reported results may be elevated. BDE-156 has not been detected in the sample. The recovery of BDE-197 is elevated due to a coeluting non-targeted BDE in the CVS. Sample data for BDE-197 are not expected to be biased

For the laboratory control sample, the recoveries of BDE-128 is elevated. BDE-128 not been detected in the sample. The recoveries of BDE-138/166 and BDE-12/13 are also elevated. Reported values for these targets may be biased high.

For the sample, recovery of the labelled standard 13C12-BDE-183 was marginally below the method control limit. No negative impact to overall data quality is expected

Some results have been reported from the analysis of a diluted extract due to elevated target concentrations.

I certify that this data package is in compliance with the terms and condition of the contract , both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this data package (hardcopy and/or electronic version) has been authorized by the Laboratory Manager or his designee, as verified by the following signature.

Steve Kennedy, Technical Supervisor

17-Nov-21
Date

1435 Norjohn Court, Unit 1, Burlington, ON, Canada L7L 0E6

SVOC DATA PACKAGE

SECTION 2: DATA SUMMARY REPORT

1435 Norjohn Court, Unit 1, Burlington, ON, Canada L7L 0E6
Phone: 905-331-3111, FAX: 905-331-4567

Certificate of Analysis

ALS Project Contact:	Claire Kocharakkal	**Client Name:**	ALS Environmental - Kelso
ALS Project ID:	ALS880	**Client Address:**	1317 South 13th Avenue
ALS WO#:	L2625428-2		Kelso, WA 98626
Date of Report	18-Nov-21		USA
Date of Sample Receipt	10-Aug-21	**Client Contact:**	Sydney Wolf
		Client Project ID:	K2109142

COMMENTS: **Brominated Flame Retardants by EPA 1614**

All results have been reported on a dry weight basis.

The recoveries of some targets are above the method control limit for the calibration verification standards (independent source) (CVSs). Many are cases where the relative response factors have been derived from an initial calibration that contains both targets, and the CVS contains only one target. For BDE-85, BDE-183 and BDE-197, the reported results may be elevated. BDE-156 has not been detected in the sample.
For the laboratory control sample, the recoveries of BDE-128, and BDE-128 are elevated. These have not been detected in the sample. The recoveries of BDE-138/166 and BDE-12/13 are also elevated. Reported values for these targets may be biased high.

For the sample, recovery of the labelled standard 13C12 BDE 183 was marginally below the method control limit. No negative impact to overall data quality is expected

Some results have been reported from the analysis of a diluted extract due to elevated target concentrations.

Certified by:

Steve Kennedy
Technical Supervisor

Results in this certificate relate only to the samples as submitted to the laboratory.
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Sample Analysis Summary Report

Sample Name	INCIN. FEED
ALS Sample ID	L2625428-2
Sample Size	4.27
Sample size units	g
Percent Moisture	n/a
Sample Matrix	Soil
Sampling Date	4-Aug-21
Extraction Date	3-Sep-21

Target Analytes	pg/g
BDE 10	<0.94
BDE 7	<0.93
BDE 8/11	7.80
BDE 12/13	6.38
BDE 15	103
BDE 30	<4.1
BDE 32	9.38
BDE 17/25	1040
BDE 28/33	2420
BDE 35	<34
BDE 37	31.1
HBB	195
BDE 75	162
BDE 51	378
BDE 49	3170
BDE 71	226
BDE 47	162000
BDE 79	<270
BDE 66	2420
BDE 77	<7.8
BDE 100	28400
BDE 119/120	609
BDE 99	180000
BDE 116	<24
BDE 83	<21
BDE 118	367
BDE 85	6390
BDE 126	30.8
BDE 105	<18
BDE 155	547
BDE 154	9270
BDE 153	12400
BDE 140	292
BDE 138/166	1220
BDE 156	<34
BDE 128	<30
BDE 184	88.1
BDE 183	2170
BDE 191	<31
BDE 181	<31
BDE 190	<45
BDE 197	777
BDE 203	215
BDE 196	301
BDE 208	1230
BDE 207	4490
BDE 206	15300
BDE 209	438000

PBDE Homologue Group Totals (Sum of detected PBDEs including EMPCs)	pg/g
Di BDE	117
Tri BDE	3530
Tetra BDE	169000
Penta BDE	216000
Hexa BDE	23700
Hepta BDE	2260
Octa BDE	1290
Nona BDE	21000
Deca BDE	438000
Total PBDEs	874000

Extraction Standards	% Rec
13C12 BDE 15	61
13C12 BDE 28	48
13C6 HBB	39
13C12 BDE 47	49
13C12 BDE 77	70
13C12 BDE 100	74
13C12 BDE 99	47
13C12 BDE 126	79
13C12 BDE 154	61
13C12 BDE 153	70
13C12 BDE 183	23
13C12 BDE 197	29
13C12 BDE 207	47
13C12 BDE 209	136

Cleanup Standard	
13C12 BDE 138 Cleanup	64

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Quality Control Summary Report

Sample Name	Method Blank	Laboratory Control Sample	
ALS Sample ID	WG3603574-1	WG3603574-2	
Sample Size	4.20	1	
Sample size units	g	n/a	
Percent Moisture	n/a	n/a	
Sample Matrix	QC	QC	
Sampling Date	n/a	n/a	
Extraction Date	3-Sep-21	3-Sep-21	
Target Analytes	**pg/g**	**% Rec**	
BDE 10	<0.18	49	
BDE 7	<0.18	73	
BDE 8/11	<0.12	93	
BDE 12/13	<0.11	138	
BDE 15	<0.090	99	
BDE 30	<0.70	74	
BDE 32	<0.51	99	
BDE 17/25	<0.67	99	
BDE 28/33	<0.64	100	
BDE 35	<0.46	117	
BDE 37	<0.46	117	
HBB	1.04	99	
BDE 75	<0.43	89	
BDE 51	<0.36	92	
BDE 49	<0.57	88	
BDE 71	<0.55	88	
BDE 47	2.11	100	
BDE 79	<0.36	117	
BDE 66	<0.62	104	
BDE 77	<0.40	99	
BDE 100	<0.43	98	
BDE 119/120	<0.91	99	
BDE 99	<0.63	98	
BDE 116	<1.4	76	
BDE 83	<1.2	93	
BDE 118	<1.1	105	
BDE 85	<0.94	110	
BDE 126	<0.62	99	
BDE 105	<1.1	105	
BDE 155	<0.78	112	
BDE 154	<0.85	101	
BDE 153	<2.9	95	
BDE 140	<1.8	114	
BDE 138/166	<3.3	160	
BDE 156	<5.1	186	
BDE 128	<4.5	186	
BDE 184	<0.97	98	
BDE 183	<1.4	95	
BDE 191	<2.3	127	
BDE 181	<2.3	114	
BDE 190	<3.4	108	
BDE 197	<1.5	95	
BDE 203	<2.0	109	
BDE 196	<1.8	107	
BDE 208	<3.0	119	
BDE 207	<0.97	96	
BDE 206	<1.3	115	
BDE 209	9.71	95	
PBDE Homologue Group Totals (Sum of detected PBDEs including EMPCs)	**pg/g**		
Di BDE	<0.09		
Tri BDE	<0.46		
Tetra BDE	2.11		
Penta BDE	<0.43		
Hexa BDE	<0.78		
Hepta BDE	<0.97		
Octa BDE	<1.5		
Nona BDE	3.00		
Deca BDE	9.71		
Total PBDEs	14.8		
Extraction Standards	**% Rec**	**% Rec**	
13C12 BDE 15	37	38	
13C12 BDE 28	39	41	
13C6 HBB	35	38	
13C12 BDE 47	36	40	
13C12 BDE 77	43	50	
13C12 BDE 100	38	45	
13C12 BDE 99	43	51	
13C12 BDE 126	47	59	
13C12 BDE 154	35	42	
13C12 BDE 153	25	28	
13C12 BDE 183	30	34	
13C12 BDE 197	33	38	
13C12 BDE 207	36	44	
13C12 BDE 209	33	39	
Cleanup Standard			
13C12 BDE 138 Cleanup	51	70	

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Continuing Calibration Summary Report

Sample Name	CCV	CCV	CCV	CCV	CVS	CVS
ALS Sample ID	H10-21-CCV-0123	H10-21-CCV-0125	H10-21-CCV-0126	H10-21-CCV-0127	H10-21-RS2-0123	H10-21-RS3-0123
Sample Size	1	1	1	1	1	1
Sample size units	n/a	n/a	n/a	n/a	n/a	n/a
Percent Moisture	n/a	n/a	n/a	n/a	n/a	n/a
Sample Matrix	QC	QC	QC	QC	QC	QC
Sampling Date	n/a	n/a	n/a	n/a	n/a	n/a
Extraction Date	n/a	n/a	n/a	n/a	n/a	n/a
Target Analytes	**% Rec**	**% Rec**	**% Rec**	**% Rec**	**% Rec**	**% Rec**
BDE 10	118	105	110	116	117	-
BDE 7	116	105	109	111	130	-
BDE 8/11	111	104	107	107	-	-
BDE 12/13	110	103	106	107	-	-
BDE 15	104	103	104	104	116	-
BDE 30	116	105	114	117	117	-
BDE 32	114	106	113	113	-	-
BDE 17/25	111	105	113	109	148	137
BDE 28/33	107	103	109	104	154	137
BDE 35	112	102	111	105	-	-
BDE 37	108	101	107	102	-	-
HBB	104	104	104	106	107	-
BDE 75	105	101	103	108	-	-
BDE 51	105	108	105	116	-	-
BDE 49	106	108	102	104	110	-
BDE 71	111	108	114	119	118	111
BDE 47	102	106	107	105	119	113
BDE 79	101	110	108	110	-	-
BDE 66	103	108	113	110	104	112
BDE 77	101	107	100	107	117	-
BDE 100	105	105	108	107	121	112
BDE 119/120	104	103	104	106	151	-
BDE 99	104	106	105	107	121	116
BDE 116	101	96	101	104	-	-
BDE 83	104	99	104	107	-	-
BDE 118	106	99	104	103	-	-
BDE 85	111	99	105	101	134	116
BDE 126	110	107	107	110	123	-
BDE 105	106	99	112	105	-	-
BDE 155	105	105	101	105	-	-
BDE 154	103	106	105	106	112	105
BDE 153	102	103	104	104	107	98
BDE 140	113	102	110	110	114	-
BDE 138/166	107	99	111	106	145	122
BDE 156	117	98	113	107	237	-
BDE 128	122	96	114	106	-	-
BDE 184	104	98	101	102	108	-
BDE 183	100	101	104	102	137	114
BDE 191	107	94	104	97	118	-
BDE 181	107	90	101	102	-	-
BDE 190	103	86	104	101	-	-
BDE 197	100	104	104	103	195	-
BDE 203	105	84	99	100	94	-
BDE 196	103	90	100	102	96	-
BDE 208	114	90	95	98	111	-
BDE 207	97	105	108	104	123	-
BDE 206	116	105	123	120	123	-
BDE 209	100	96	101	101	116	92
Extraction Standards	**% Rec**	**% Rec**	**% Rec**	**% Rec**	**% Rec**	**% Rec**
13C12 BDE 15	104	91	92	114	81	89
13C12 BDE 28	100	95	90	106	89	95
13C6 HBB	87	85	79	88	85	82
13C12 BDE 47	100	96	93	100	104	100
13C12 BDE 77	103	98	99	97	107	96
13C12 BDE 100	93	99	90	97	81	101
13C12 BDE 99	94	98	95	97	87	102
13C12 BDE 126	94	98	101	96	92	88
13C12 BDE 154	86	97	89	91	80	96
13C12 BDE 153	94	99	98	94	92	97
13C12 BDE 183	83	100	86	89	78	106
13C12 BDE 197	93	92	85	90	95	90
13C12 BDE 207	89	98	89	89	98	96
13C12 BDE 209	121	72	121	127	93	105
Cleanup Standard						
13C12 BDE 138 Cleanup	99	100	102	97	95	95

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Sample Analysis Report

Sample Name	**INCIN. FEED**	Sampling Date	4-Aug-21		
ALS Sample ID	L2625428-2	Extraction Date	3-Sep-21		Approved:
Analysis Method	EPA 1614	Sample Size	4.27	g	*Ella Gdyczynski*
Analysis Type	Sample	Percent Moisture	n/a		--e-signature--
Sample Matrix	Soil	Split Ratio	2		16-Sep-2021

Run Information	**Run 1**	**Run 2**
Filename	10-210913B26	10-210914A24
Run Date	14-Sep-21 10:02	15-Sep-21 17:35
Final Volume	40 uL	40 uL
Dilution Factor	5	60
Analysis Units	pg/g	pg/g
Instrument - Column	HRMS-10 DB5US1450812	HRMS-10 DB5US1450812

	Ret.	Conc.	EDL		EMPC		Ret.	Conc.	EDL		EMPC	
Target Analytes	**Time**	**pg/g**	**pg/g**	**Flags**	**pg/g**	**LQL**	**Time**	**pg/g**	**pg/g**	**Flags**	**pg/g**	**LQL**
BDE 10	NotFnd	<0.94	0.94	U		94						
BDE 7	NotFnd	<0.93	0.93	U		94						
BDE 8/11	6.90	7.80	0.65	M,J		190						
BDE 12/13	7.03	6.38	0.56	M,J		190						
BDE 15	7.18	103	0.47			94						
BDE 30	NotFnd	<4.1	4.1	U		94						
BDE 32	8.32	9.38	3.0	M,J		94						
BDE 17/25	8.47	1040	3.9			190						
BDE 28/33	8.70	2420	3.8	M		190						
BDE 35	8.83	<34	2.7	J,R	34	94						
BDE 37	9.05	31.1	2.7	J		94						
HBB	10.07	195	1.8			94						
BDE 75	10.10	162	7.8			94						
BDE 51	10.16	378	6.6			94						
BDE 49	10.27	3170	10			94						
BDE 71	10.33	226	10			94						
BDE 47							10.57	162000	63	M		1100
BDE 79	10.74	<270	6.6	M,1.	270	94						
BDE 66	10.89	2420	11	M		94						
BDE 77	NotFnd	<7.8	7.8	U		94						
BDE 100	12.26	28400	7.5			140						
BDE 119/120	12.36	609	15			140						
BDE 99							12.72	180000	110	M		1700
BDE 116	NotFnd	<24	24	U		140						
BDE 83	NotFnd	<21	21	U		140						
BDE 118	13.15	367	18	M		140						
BDE 85	13.65	6390	16	M		140						
BDE 126	13.81	30.8	12	M,J		140						
BDE 105	NotFnd	<18	18	U		140						
BDE 155	13.81	547	3.5			190						
BDE 154	14.20	9270	4.1			190						
BDE 153	14.95	12400	14	M		190						
BDE 140	15.40	292	12			190						
BDE 138/166	15.90	1220	22			370						
BDE 156	NotFnd	<34	34	U		190						
BDE 128	NotFnd	<30	30	U		190						
BDE 184	16.72	88.1	13	J		230						
BDE 183							17.03	2170	78	M,J		2800
BDE 191	NotFnd	<31	31	U		230						
BDE 181	NotFnd	<31	31	U		230						
BDE 190	NotFnd	<45	45	U		230						
BDE 197	19.68	777	110			230						
BDE 203	19.93	215	150	M,J		230						
BDE 196	20.11	301	130	M		230						
BDE 208	21.32	1230	280			470						
BDE 207	21.43	4490	240			470						
BDE 206	21.68	15300	310			470						
BDE 209							23.28	438000	430			5600

Extraction Standards	**pg**		**% Rec**	**Limits**			**% Rec**
13C12 BDE 15	2000	7.17	61	25-150			
13C12 BDE 28	2000	8.69	48	25-150			
13C6 HBB	2000	10.07	39	25-150			
13C12 BDE 47	2000			25-150		10.57	49
13C12 BDE 77	2000	11.36	70	25-150			
13C12 BDE 100	2000	12.25	74	25-150			
13C12 BDE 99	2000			25-150		12.71	47
13C12 BDE 126	2000	13.81	79	25-150			
13C12 BDE 154	2000	14.18	61	25-150			
13C12 BDE 153	2000	14.94	70	25-150			
13C12 BDE 183	2000			25-150		17.01	23
13C12 BDE 197	4000	19.69	29	25-150	M		
13C12 BDE 207	10000	21.43	47	25-150			
13C12 BDE 209	10000			20-200		23.28	136 R

Cleanup Standard	**pg**				
13C12 BDE 138 Cleanup	2000	15.89	64	30-135	

EDL	Indicates the Estimated Detection Limit, based on the measured background noise for this target in this sample.
LQL	Lower Quantification Limit, based on the lowest calibration level corrected for sample size, splits and dilutions.
M	Indicates that a peak has been manually integrated.
U	Indicates that this compound was not detected above the EDL.
J	Indicates that a target analyte was detected below the calibrated range.
R	Indicates that the ion abundance ratio for this compound did not meet the acceptance criterion.
1.	This result is an EMPC
EMPC	Estimated Maximum Possible Concentration – elevated detection limit due to interference or positive id criterion failure

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SECTION 3: METHOD SUMMARY

Brominated Flame Retardants METHOD SUMMARY
Method EPA 1614

Introduction:

This summary is to provide ALSE Burlington PBDE method details in order to provide persons reviewing or validating this data package sufficient information to re-construct the sample calculation, data verification and review. It incorporates the analysis of various brominated flame retardants, primarily polybrominated diphenyl ethers, by EPA method 1614. Deviations from this reference method are documented in ALS Standard Operating Procedures (available upon request) and this Method Summary.

Any deviations to what is listed herein or in the ALS Standard Operating Procedures would be listed in the project narrative.

To avoid the confusion and conflicting nomenclature within the performance based methods, we have defined the labeled standards in terms relating to the time of addition to the sample or extract. Therefore;

The Field or Sampling Standards (where used) are added prior to field sampling
The Extraction Standards are added prior to extraction
The Clean-up Standards (where used) are added prior to extract clean-up
The Injection Standards are added prior to extract injection.

Additional method information, such as Instrumental Descriptors, is documented in ALS Standard Operating Procedures and available upon request.

Calibration Standard Levels:

Table 1		CS1	CS2	CS3	CS4	CS5
Natives	BDE-1	1	4	20	80	300
	BDE-2	1	4	20	80	300
	BDE-3	1	4	20	80	300
	BDE-10	1	4	20	80	300
	BDE-7	1	4	20	80	300
	BDE-8/BDE-11	1	4	20	80	300
	BDE-12/BDE-13	1	4	20	80	300
	BDE-15	1	4	20	80	300
	BDE-30	1	4	20	80	300
	BDE-32	1	4	20	80	300
	BDE-17/BDE-25	1	4	20	80	300
	BDE-28/BDE-33	1	4	20	80	300
	BDE-35	1	4	20	80	300
	BDE-37	1	4	20	80	300
	PBEB	1	4	20	80	300
	PBB-52	1	4	20	80	300
	HBB	1	4	20	80	300
	BDE-75	1	4	20	80	300
	BDE-51	1	4	20	80	300
	BDE-49	1	4	20	80	300
	BDE-71	1	4	20	80	300
	BDE-47	1	4	20	80	300
	BDE-79	1	4	20	80	300
	BDE-66	1	4	20	80	300
	BDE-77	1	4	20	80	300
	PBB-101	2	8	40	160	600
	BDE-100	1.5	6	30	120	450
	BDE-119/BDE-120	1.5	6	30	120	450
	BDE-99	1.5	6	30	120	450
	BDE-116	1.5	6	30	120	450
	BDE-83	1.5	6	30	120	450
	BDE-118	1.5	6	30	120	450
	BDE-85	1.5	6	30	120	450
	BDE-126	1.5	6	30	120	450
	BDE-105	1.5	6	30	120	450
	PBB-153	2	8	40	160	600
	BDE-155	2	8	40	160	600
	BDE-154	2	8	40	160	600
	BDE-153	2	8	40	160	600
	BDE-140	2	8	40	160	600
	BDE-138/BDE-166	2	8	40	160	600
	BDE-156	2	8	40	160	600
	BDE-128	2	8	40	160	600
	BDE-184	2.5	10	50	200	750
	BDE-183	2.5	10	50	200	750
	BDE-191	2.5	10	50	200	750
	BDE-181	2.5	10	50	200	750
	BDE-190	2.5	10	50	200	750
	PBB-180	2	8	40	160	600
	BDE-197	2.5	10	50	200	750
	BDE-203	2.5	10	50	200	750
	BDE-196	2.5	10	50	200	750
	PBB-194	2	8	40	160	600
	BDE-208	5	20	100	400	1500
	BDE-207	5	20	100	400	1500
	PBB-206	5	20	100	400	1500
	PBB-209	5	20	100	400	1500
	BDE-206	5	20	100	400	1500
	BDE-209	5	20	100	400	1500

DBDPE	10	40	200	800	3000
BTBPE	2	8	40	160	600

Extraction Standards	13C12-BDE-3	50	50	50	50	50
	13C12-BDE-15	50	50	50	50	50
	13C12-BDE-28	50	50	50	50	50
	13C6-HBB	50	50	50	50	50
	13C12-BDE-47	50	50	50	50	50
	13C12-BDE-77	50	50	50	50	50
	13C12-BDE-100	50	50	50	50	50
	13C12-BDE-99	50	50	50	50	50
	13C12-BDE-126	50	50	50	50	50
	13C12-BDE-154	50	50	50	50	50
	13C12-BDE-153	50	50	50	50	50
	13C12-BDE-183	50	50	50	50	50
	13C12-BDE-197	100	100	100	100	100
	13C12-BDE-207	250	250	250	250	250
	13C12-BDE-209	250	250	250	250	250
	13C14-DBDPE	500	500	500	500	500
	13C12-BTBPE	50	50	50	50	50
Cleanup Standard	13C12-BDE-138	50	50	50	50	50
Injection Standards	13C12-BDE-79	50	50	50	50	50
	13C12-BDE-139	50	50	50	50	50
	13C12-BDE-180	50	50	50	50	50
	13C12-BDE-206	250	250	250	250	250

Calibration and Quality Control Limits

The calibration and QC Sample control limits are presented in Table 2 below. For the lowest standard used for initial calibration, and for each calibration verification CS3, the signal to noise ratio for each ion for both labelled and non-labelled analytes of primary interest* must be greater than or equal to 10:1

		Calibration		Samples and QC Samples	
		Initial Cal. %RSD	Cal. Ver. %Exp	LCS % Rec	Samples % Rec
Natives	BDE-1	20	70-130	NR-150	
	BDE-2	20	70-130	NR-150	
	BDE-3	20	70-130	NR-150	
	BDE-10	20	70-130	5-130	
	BDE-7	20	70-130	5-130	
	BDE-8/BDE-11	20	70-130	50-150	
	BDE-12/BDE-13	20	70-130	5-130	
	BDE-15	20	70-130	50-150	
	BDE-30	20	70-130	5-130	
	BDE-32	20	70-130	50-150	
	BDE-17/BDE-25	20	70-130	50-150	
	BDE-28/BDE-33	20	70-130	50-150	
	BDE-35	20	70-130	50-150	
	BDE-37	20	70-130	50-150	
	PBEB	20	70-130	50-150	
	PBB-52	20	70-130	50-150	
	HBB	20	70-130	50-150	
	BDE-75	20	70-130	50-150	
	BDE-51	20	70-130	50-150	
	BDE-49	20	70-130	50-150	
	BDE-71	20	70-130	50-150	
	BDE-47	20	70-130	50-150	
	BDE-79	20	70-130	50-150	
	BDE-66	20	70-130	50-150	
	BDE-77	20	70-130	50-150	
	PBB-101	20	70-130	50-150	
	BDE-100	20	70-130	50-150	
	BDE-119/BDE-120	20	70-130	50-150	
	BDE-99	20	70-130	50-150	
	BDE-116	20	70-130	40-140	
	BDE-83	20	70-130	50-150	
	BDE-118	20	70-130	50-150	
	BDE-85	20	70-130	50-150	
	BDE-126	20	70-130	50-150	
	BDE-105	20	70-130	50-150	
	PBB-153	20	70-130	50-150	
	BDE-155	20	70-130	50-150	
	BDE-154	20	70-130	50-150	
	BDE-153	20	70-130	50-150	
	BDE-140	20	70-130	50-150	
	BDE-138/BDE-166	20	70-130	50-150	
	BDE-156	20	70-130	50-150	
	BDE-128	20	70-130	50-150	
	BDE-184	20	70-130	50-150	
	BDE-183	20	70-130	50-150	
	BDE-191	20	70-130	50-150	
	BDE-181	20	70-130	50-150	
	BDE-190	20	70-130	50-150	
	PBB-180	20	70-130	50-150	
	BDE-197	20	70-130	50-150	
	BDE-203	20	70-130	50-150	
	BDE-196	20	70-130	50-150	
	PBB-194	20	70-130	50-150	
	BDE-208	20	70-130	50-150	
	BDE-207	20	70-130	50-150	
	PBB-206	20	70-130	50-150	
	PBB-209	20	50-200	40-200	
	BDE-206	20	50-200	40-200	
	BDE-209	20	50-200	40-200	
	DBDPE	20	50-200	40-200	
	BTBPE	20	70-130	50-150	
Extraction Standards	13C12-BDE-3	20	50-150	25-150	25-150
	13C12-BDE-15	20	50-150	25-150	25-150
	13C12-BDE-28	20	50-150	30-140	25-150
	13C6-HBB	20	50-150	30-140	25-150
	13C12-BDE-47	20	50-150	30-140	25-150
	13C12-BDE-77	20	50-150	30-140	25-150
	13C12-BDE-100	20	50-150	30-140	25-150
	13C12-BDE-99	20	50-150	30-140	25-150
	13C12-BDE-126	20	50-150	30-140	25-150
	13C12-BDE-154	20	50-150	30-140	25-150
	13C12-BDE-153	20	50-150	30-140	25-150
	13C12-BDE-183	20	50-150	30-140	25-150
	13C12-BDE-197	20	50-150	30-140	25-150
	13C12-BDE-207	20	50-150	30-140	25-150
	13C12-BDE-209	20	25-200	20-200	20-200
	13C14-DBDPE	20	25-200	5-200	5-200
	13C12-BTBPE	20	50-150	15-150	15-150
Cleanup Standard	13C12-BDE-138	20	60-130	40-125	30-135

* - BDE's of primary interest are those listed as such in EPA 1614 and according to that method are the only required targets for the multipoint calibration. They include BDE-28, BDE-47, BDE-99, BDE-100, BDE-153, BDE-154, BDE-183 and BDE-209.

Reporting Limits:

Unless indicated in the otherwise, the PBDE data is reported down to 2.5:1 signal to noise for each isomer grouping for each extract injection. This is consistent to SW846 8290 defined protocols (i.e. EDL or Estimated Detection Limit) and is commonly applied throughout the industry for performance-based HRMS methods including the one in this summary.

Method Blank:

If any BDE other than BDE-28, BDE-47, BDE-99, BDE-100 or BDE-209 is found in the blank at greater than the ML (minimum level) published in the reference method (EPA-1614 Table 1.), or one-third the regulatory compliance limit (whichever is greater); or if any potentially interfering compound is found in the blank at the minimum level for each BDE in EPA-1614 Table 1 (assuming a relative response factor of one relative to the quantitation reference at that level of bromination for potentially interfering compound; ie. a compound not listed in this method), analysis of samples must be halted until the sample batch is re-extracted and the extracts re-analyzed, and the blank associated with the sample batch shows no evidence of contamination at those levels. For BDE-28, -47, -99, -100 and -209, blanks at 5x the method MLs are acceptable.

MS/MSD:

The % relative difference between the MS and MSD spike recoveries should be less than or equal to 25%.

Instrument/Run Performance Criteria:

1. Elution windows must be verified at the beginning of each 12-hour run sequence relative to the application note
2. GC performance criteria: there must be a maximum valley height 40% between BDE-49 and BDE-71 (relative to th shorter of the two compounds)
3. The tailing factor (see Figure 13 in EPA Method 625; 40 CFR 136, Appendix A) for congener BDE-99L in the CS-3 standard must be less than 3.00.
4. At the beginning of and just following the end of each 12 hour run sequence, the instrument must be checked to demonstrate a resolution of 5,000 for each quantification window.
5. The RT in the daily CS3 verification standards must be within 15 seconds of the CS3 in the initial calibration run.
6. The maximum time between scans within a descriptor is 1 second.
7. Lock mass deviations to the average response must be less than or equal 20%.

Laboratory Duplicates:

The % relative difference between duplicates should be less than or equal to 35% where the levels are within the calibrated range of the method (50% for nona and deca BDEs).

Analyte Identification Criteria:

1. Ion ratio must be within 15% of theoretical or within 10% of the most recent CS3.
2. The retention time (RT) of the peak maxima for each pair of quantification ions must be no more than 2 seconds (i.e. 2 scans) difference.
3. The retention time (RT) of the peak maxima of all native analytes must be within -1 to +3 seconds of the RT of corresponding $^{13}C_{12}$-labelled isomer of that injection run.
4. For those native analytes without a corresponding labelled isomer, the relative retention time (RRT) must be within 0.005 of the relative retention time observed in the daily CS3 run.

Table 3: Monitored Masses, Ion Abuncance Ratios, and Quantitation/RT References

Entry	Native Standard	Quantification Method	Quantification vs. Entry #:	Quantitation Ion	Confirmation Ion	Theoretical Ion Abundance ratio	Ion Abundance Ratio Tolerance
1	BDE-1	rel_int	62	247.9837	249.9816	1.03	0.15
2	BDE-2	rel_int	62	247.9837	249.9816	1.03	0.15
3	BDE-3	rel_int	62	247.9837	249.9816	1.03	0.15
4	BDE-10	rel_int	63	325.8942	327.8921	0.51	0.15
5	BDE-7	rel_int	63	325.8942	327.8921	0.51	0.15
6	BDE-8/BDE-11	rel_int	63	325.8942	327.8921	0.51	0.15
7	BDE-12/BDE-13	rel_int	63	325.8942	327.8921	0.51	0.15
8	BDE-15	rel_int	63	325.8942	327.8921	0.51	0.15
9	BDE-30	rel_int	64	405.8027	407.8002	1.03	0.15
10	BDE-32	rel_int	64	405.8027	407.8002	1.03	0.15
11	BDE-17/BDE-25	rel_int	64	405.8027	407.8002	1.03	0.15
12	BDE-28/BDE-33	rel_int	64	405.8027	407.8002	1.03	0.15
13	BDE-35	rel_int	64	405.8027	407.8002	1.03	0.15
14	BDE-37	rel_int	64	405.8027	407.8002	1.03	0.15
15	PBEB	rel_int	65	499.6267	501.6247	1.03	0.15
16	PBB-52	rel_int	65	469.7162	471.7142	1.53	0.15
17	HBB	rel_int	65	547.508	549.5059	0.41	0.15
18	BDE-75	rel_int	66, 67	483.7132	485.7111	0.7	0.15
19	BDE-51	rel_int	66, 67	483.7132	485.7111	0.7	0.15
20	BDE-49	rel_int	66, 67	483.7132	485.7111	0.7	0.15
21	BDE-71	rel_int	66, 67	483.7132	485.7111	0.7	0.15
22	BDE-47	rel_int	66	483.7132	485.7111	0.7	0.15
23	BDE-79	rel_int	66, 67	483.7132	485.7111	0.7	0.15
24	BDE-66	rel_int	66, 67	483.7132	485.7111	0.7	0.15
25	BDE-77	rel_int	67	483.7132	485.7111	0.7	0.15
26	PBB-101	rel_int	66, 67	547.6267	549.6247	1.03	0.15
27	BDE-100	rel_int	68	563.6216	565.6196	1.03	0.15
28	BDE-119/BDE-120	rel_int	68,69,70	563.6216	565.6196	1.03	0.15
29	BDE-99	rel_int	69	563.6216	565.6196	1.03	0.15
30	BDE-116	rel_int	68,69,70	563.6216	565.6196	1.03	0.15
31	BDE-83	rel_int	68,69,70	563.6216	565.6196	1.03	0.15
32	BDE-118	rel_int	68,69,70	563.6216	565.6196	1.03	0.15
33	BDE-85	rel_int	68,69,70	563.6216	565.6196	1.03	0.15
34	BDE-126	rel_int	70	563.6216	565.6196	1.03	0.15
35	BDE-105	rel_int	68,69,70	563.6216	565.6196	1.03	0.15
36	PBB-153	rel_int	71,72	627.5362	629.5331	1.37	0.15
37	BDE-155	rel_int	71,72	643.5301	645.5279	1.37	0.15
38	BDE-154	rel_int	71	643.5301	645.5279	1.37	0.15
39	BDE-153	rel_int	72	643.5302	645.528	1.37	0.15
40	BDE-140	rel_int	71,72	643.5302	645.528	1.37	0.15
41	BDE-138/BDE-166	rel_int	71,72	643.5302	645.528	1.37	0.15
42	BDE-156	rel_int	71,72	643.5302	645.528	1.37	0.15
43	BDE-128	rel_int	71,72	643.5302	645.528	1.37	0.15
44	BDE-184	rel_int	73	721.4406	723.4386	1.03	0.15
45	BDE-183	rel_int	73	721.4406	723.4386	1.03	0.15
46	BDE-191	rel_int	73	721.4406	723.4386	1.03	0.15
47	BDE-181	rel_int	73	721.4406	723.4386	1.03	0.15
48	BDE-190	rel_int	73	721.4406	723.4386	1.03	0.15
49	PBB-180	rel_int	73	705.4457	707.4436	1.03	0.15
50	BDE-197	rel_int	74	799.3511	801.3491	0.82	0.15
51	BDE-203	rel_int	74	799.3511	801.3491	0.82	0.15
52	BDE-196	rel_int	74	799.3511	801.3491	0.82	0.15
53	PBB-194	rel_int	74	785.3542	787.3521	1.28	0.15
54	BDE-208	rel_int	75	719.425	721.4229	1.03	0.15
55	BDE-207	rel_int	75	719.425	721.4229	1.03	0.15
56	BDE-206	rel_int	75	719.425	721.4229	1.03	0.15
57	PBB-206	rel_int	75	703.43	705.428	1.03	0.15
58	PBB-209	rel_int	75	783.3385	785.3365	1.28	0.15
59	BDE-209	rel_int	76	799.3334	801.3314	1.23	0.15
60	DBDPE	rel_int	77	484.6033	486.6012	1.03	0.15
61	BTBPE	rel_int	78	356.7948	358.7928	1.03	0.15
	Extraction Standard						
62	13C12-BDE-3	rel_int	80	260.0239	262.0219	1.03	0.15
63	13C12-BDE-15	rel_int	80	337.9344	339.9324	0.51	0.15
64	13C12-BDE-28	rel_int	80	417.8429	419.8409	1.03	0.15
65	13C6-HBB	rel_int	80	559.522	561.5199	2.57	0.15
66	13C12-BDE-47	rel_int	80	497.7514	499.7493	1.54	0.15
67	13C12-BDE-77	rel_int	80	497.7514	499.7493	1.54	0.15
68	13C12-BDE-100	rel_int	81	575.6619	577.6598	1.03	0.15
69	13C12-BDE-99	rel_int	81	575.6619	577.6598	1.03	0.15
70	13C12-BDE-126	rel_int	81	575.6619	577.6598	1.03	0.15
71	13C12-BDE-154	rel_int	81	655.5703	657.5682	1.37	0.15
72	13C12-BDE-153	rel_int	81	655.5704	657.5683	1.37	0.15
73	13C12-BDE-183	rel_int	82	733.4809	735.4788	1.03	0.15
74	13C12-BDE-197	rel_int	82	811.3914	813.3893	0.82	0.15
75	13C12-BDE-207	rel_int	83	731.4652	733.4632	1.03	0.15
76	13C12-BDE-209	rel_int	83	811.3737	813.3716	1.23	0.15
77	13C14-DBDPE	rel_int	83	983.2534	985.2514	0.86	0.15
78	13C12-BTBPE	rel_int	83	362.815	364.8129	1.03	0.15
	Cleanup Standard						
79	13C12-BDE-138	rel_int	81	655.5704	657.5683	1.37	0.15
	Injection Standard						
80	13C12-BDE-79	abs_int		497.7514	499.7493	1.54	0.15
81	13C12-BDE-139	abs_int		655.5704	657.5683	1.37	0.15
82	13C12-BDE-180	abs_int		733.4809	735.4788	1.03	0.15
83	13C12-BDE-206	abs_int		731.4652	733.4632	1.03	0.15

Data Calculations:

a) Analyte Concentrations:

The relative response factor of each target relative to the standard against which it is to be calculated is determined using the area responses of both quantification ions via equation 9.1.
In cases where a native target is calculated against an exact labelled analogue, the quantification will be considered to be by isotope dilution. In other cases, the quantification will be considered to be by internal standard.

$$RRF = \frac{(A1_t + A2_t)\ C_s}{(A1_s + A2_s)\ C_t} \qquad \text{Equ. 9.1}$$

Where,
$A1_t + A2_t$ = The areas of the two quantification ions for the target analyte
$A1_s + A2_s$ = The areas of the two quantification ions for the labelled compound against which the target analyte will be calculated.
C_t = The concentration in the calibration standard of the target analyte.
C_s = The concentration in the calibration standard of the labelled compound against which the target will be calculated.

For all analytes to be quantified and from the initial calibration series of standard injections, a table of RRFs is prepared. The relative standard deviation (%RSD, or the coefficient of variance) is checked to confirm that the appropriate method criteria has been met as listed in Table 3. The average of the five levels of standard for each analyte, RRF_{av} is applied for quantification of samples according to Equations 9.2 and 9.3 below.

$$\text{Amount in sample (ng)} = \frac{(A1_n + A2_n)\ Q_l}{(A1_l + A2_l)\ (RRF_{av})} \qquad \text{Equ. 9.2}$$

$$\text{Concentration in sample (ng/g or ng/L)} = \frac{(A1_n + A2_n)\ Q_l}{(A1_l + A2_l)\ (RRF_{av})\ (W_s)} \qquad \text{Equ. 9.3}$$

Where,

Q_l = The amount (pg) of labelled compound added to the sample

W_s = The weight (g) or volume (l) of sample

b) Extraction, Clean-up, and Sampling Standard Recovery Calculation:

The extraction, clean-up, and sampling standard recoveries are determined by Equation 9.4 below.

% Recovery = (Amount in sample)/(Amount added to sample) X 100 Equ. 9.4

c) Estimated Detection Limit

$$EDL = \frac{2.5 \times H_x \times Q_{es}}{H_{es} \times W \times RFF_{av}} \qquad \text{Equ. 9.5}$$

Where,
EDL = estimated detection limit for native targets
H_x = sum of the height of the noise level for each quantification ions for the unlabeled target
H_{es} = Sum of the heights of responses of both quantification ions for the labelled extraction standard.
W = weight of volume of sample
RRF_{av} = average relative response factor
Q_{es} = Amount of extraction standard added

Chromatogram Annotation Codes

All manually integrated peaks are expanded and reprinted with the following annotations:

* Analyst Initials	AA
* Date	YYMMDD
* integration code	CC

The Syntax is:	Example:
AAYYMMDDCC	SK111220MB

Code	Mnemonic	Description
MB	Manual Baseline	The peak was manually integrated because the initial baseline was determined incorrectly by the software
MS	Manual Split	The peak was manually integrated because the peak was incorrectly or not split by the software
MJ/MC	Manual Join/Manual Combine	The peak was manually integrated because the peak was split by the software and the peak should be integrated as a single peak
MA	Manual Add	The peak was manually integrated because the signal:noise ratio was judged to be >2.5
MD	Manual Delete	The peak was excluded because the signal:noise ratio was judged to be <2.5
MX	Manual Exclude	The peak was excluded due to an interference
MT	Manual Time	The peak retention time was manually chosen

The following explanatory annotation codes may appear on the chromatograms of peaks that have been reviewed:

Code	Mnemonic	Description
+	Detected Peak	A peak was detected at this mass and retention time that was above 2.5:1 signal to noise
<	Below Detection Limit	The signal at this mass and retention time was below 2.5:1 signal to noise
EMPC	Estimated Maximum Possible Concentration	The signal at this mass and retention time is an interference such that the target compound could not be confirmed
X-RT	Not Detected due to Retention Time non-conformance	The signal at this retention time could not be used to positively identify the target compound because of retention time non-conformance (apex of quantification and confirmation ions do not maximize within the same two seconds, or the retention time of the peak does not fall within the expected range with respect to its labeled analogue)
X-LOC	Not Detected due to interference from a higher level of chlorination	The signal at this retention time is attributable to a fragment from a co-eluting compound at a higher level of chlorination, and cannot be used to positively identify the target. The result is expressed as an Estimated Maximum Possible Concentration (EMPC)
X-DPE	Not Detected due to diphenyl ether interference	The signal at this retention time is attributable to interference from a chlorinated diphenyl ether, and cannot be used to positively identify the target. The result is expressed as an Estimated Maximum Possible Concentration (EMPC)
X-IF	Not Detected due to interference	The signal at this retention time is attributable to a co-eluting interference, and cannot be used to positively identify the target. The result is expressed as an Estimated Maximum Possible Concentration (EMPC)

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SVOC DATA PACKAGE

SECTION 4: CALIBRATION DATA

Including:

for Multi-Point Calibration(s)

- Multi-Point Calibration Tables
- Individual Quantitation Reports

for Continuing Calibration(s)

- Individual Quantitation Reports

ALS Life Sciences

Calibration Summary Report

Calibration Level	Filename	Run Date
CS-1	10-210913B05	13-Sep-2021 19:32
CS-2	10-210913B04	13-Sep-2021 18:57
CS-3	10-210913B03	13-Sep-2021 18:23
CS-4	10-210913B07	13-Sep-2021 20:42
CS-5	10-210913B06	13-Sep-2021 20:07

Approved: *Ella Gdyczynski*
--e-signature--
16-Sep-2021

Relative Response Factors

Target Analytes	CS-1	CS-2	CS-3	CS-4	CS-5	Mean	% RSD
BDE 1	0.525	0.438	0.422	0.433	0.437	0.451	9%
BDE 2	0.622	0.658	0.668	0.659	0.707	0.663	5%
BDE 3	0.845	0.791	0.783	0.763	0.802	0.797	4%
BDE 10	0.391	0.404	0.430	0.459	0.458	0.428	7%
BDE 7	0.379	0.412	0.447	0.452	0.467	0.431	8%
BDE 8/11	0.547	0.600	0.632	0.645	0.668	0.618	8%
BDE 12/13	0.636	0.691	0.724	0.747	0.776	0.715	8%
BDE 15	0.756	0.834	0.883	0.868	0.897	0.848	7%
BDE 30	0.569	0.561	0.624	0.668	0.636	0.612	7%
BDE 32	0.735	0.797	0.874	0.889	0.891	0.837	8%
BDE 17/25	0.547	0.614	0.668	0.681	0.701	0.642	10%
BDE 28/33	0.578	0.646	0.697	0.703	0.719	0.669	9%
BDE 35	0.787	0.856	0.971	0.973	1.029	0.923	11%
BDE 37	0.792	0.852	0.966	0.976	1.031	0.923	11%
PBEB	1.041	1.121	1.255	1.389	1.445	1.250	14%
PBB 52	1.113	1.108	1.238	1.377	1.478	1.263	13%
HBB	0.922	0.991	1.090	1.104	1.129	1.047	8%
BDE 75	0.636	0.673	0.772	0.877	0.887	0.769	15%
BDE 51	0.790	0.856	0.927	1.011	0.978	0.912	10%
BDE 49	0.463	0.518	0.613	0.645	0.669	0.582	15%
BDE 71	0.526	0.524	0.583	0.681	0.672	0.597	13%
BDE 47	0.750	0.770	0.875	0.882	0.920	0.839	9%
BDE 79	0.761	0.867	0.967	0.976	0.976	0.909	10%
BDE 66	0.440	0.476	0.550	0.593	0.611	0.534	14%
BDE 77	0.628	0.726	0.819	0.874	0.912	0.792	15%
PBB 101	0.931	0.986	1.075	1.179	1.233	1.081	12%
BDE 100	0.624	0.702	0.809	0.825	0.855	0.763	13%
BDE 119/120	0.363	0.419	0.483	0.537	0.564	0.473	18%
BDE 99	0.694	0.759	0.863	0.891	0.912	0.824	11%
BDE 116	0.258	0.270	0.314	0.345	0.353	0.308	14%
BDE 83	0.280	0.311	0.367	0.384	0.395	0.347	14%
BDE 118	0.310	0.348	0.428	0.435	0.458	0.396	16%
BDE 85	0.371	0.396	0.472	0.495	0.552	0.457	16%
BDE 126	0.633	0.726	0.813	0.840	0.904	0.783	13%
BDE 105	0.286	0.345	0.400	0.456	0.511	0.400	22%
PBB 153	1.143	1.199	1.306	1.364	1.444	1.291	9%
BDE 155	1.390	1.536	1.645	1.707	1.732	1.602	9%
BDE 154	0.815	0.871	0.947	0.955	0.987	0.915	8%
BDE 153	0.977	1.058	1.211	1.260	1.291	1.159	12%
BDE 140	0.615	0.666	0.739	0.763	0.829	0.722	12%
BDE 138/166	0.323	0.354	0.409	0.422	0.484	0.398	16%
BDE 156	0.186	0.223	0.259	0.268	0.352	0.258	24%
BDE 128	0.218	0.251	0.295	0.310	0.398	0.294	23%
BDE 184	0.989	0.951	1.106	1.244	1.261	1.110	13%
BDE 183	0.666	0.655	0.774	0.813	0.827	0.747	11%
BDE 191	0.403	0.374	0.461	0.501	0.568	0.461	17%
BDE 181	0.381	0.401	0.475	0.511	0.571	0.468	17%
BDE 190	0.251	0.275	0.316	0.340	0.398	0.316	18%
PBB 180	0.573	0.594	0.704	0.774	0.812	0.691	15%
BDE 197	0.644	0.722	0.810	0.858	0.899	0.787	13%
BDE 203	0.485	0.472	0.573	0.619	0.713	0.572	17%
BDE 196	0.496	0.516	0.640	0.736	0.895	0.657	25%
PBB 194	0.367	0.378	0.473	0.596	0.742	0.511	31%
BDE 208	0.657	0.627	0.749	0.899	0.992	0.785	20%
BDE 207	0.772	0.799	0.950	1.011	1.014	0.909	13%
BDE 206	0.539	0.691	0.736	0.712	0.757	0.687	13%
PBB 206	0.295	0.236	0.293	0.357	0.378	0.312	18%
PBB 209	0.343	0.272	0.333	0.398	0.435	0.356	18%
BDE 209	0.830	0.853	0.964	1.054	1.127	0.966	13%
DBDPE	0.784	0.754	0.901	0.958	1.056	0.891	14%
Extraction Standards							
13C12 BDE 3	5.517	4.541	4.441	5.744	5.030	5.055	11%
13C12 BDE 15	2.841	2.575	2.599	2.994	2.778	2.757	6%
13C12 BDE 28	1.251	1.201	1.214	1.318	1.293	1.255	4%
13C6 HBB	0.924	0.912	0.907	0.907	0.868	0.904	2%
13C12 BDE 47	0.875	0.861	0.867	0.880	0.871	0.871	1%
13C12 BDE 77	0.889	0.923	0.943	0.899	0.935	0.918	3%
13C12 BDE 100	3.170	2.791	2.808	3.315	3.474	3.112	10%
13C12 BDE 99	1.733	1.655	1.699	1.937	2.099	1.825	10%
13C12 BDE 126	1.762	1.795	1.976	2.172	2.559	2.053	16%
13C12 BDE 154	2.242	2.163	2.365	2.766	3.034	2.514	15%
13C12 BDE 153	0.756	0.757	0.808	0.884	1.045	0.850	14%
13C12 BDE 183	2.028	1.865	1.901	2.272	2.502	2.114	13%
13C12 BDE 197	1.560	1.568	1.554	1.645	1.827	1.631	7%
13C12 BDE 207	1.304	1.247	1.313	1.393	1.384	1.328	5%
13C12 BDE 209	0.319	0.367	0.357	0.325	0.344	0.342	6%
13C14 DBDPE	0.225	0.321	0.298	0.214	0.219	0.255	20%
Cleanup Standard							
13C12 BDE 138 Cleanup	0.585	0.658	0.715	0.726	0.896	0.716	16%

ALS Life Sciences

Calibration Report

ALS Sample ID **H10-21-CS1-0123**
Analysis Method EPA 1614
Analysis Type Calibration

Filename	Inst #	Column	Run Date	Approved:	*Ella Gdyczynski*
10-210913B05	HRMS-10	Col#idDB5#US1450812H	13-Sep-2021 19:32		--e-signature--
					16-Sep-2021

Target Analytes	Ret. Time	Ion Ratio	Concentration ng/mL	Response	RRF
BDE 1	4.89	0.81	1.00	2.21E+04	0.525
BDE 2	5	1.32	1.00	2.62E+04	0.622
BDE 3	5.11	1.05	1.00	3.55E+04	0.845
BDE 10	6.33	0.47	1.00	8.47E+03	0.391
BDE 7	6.71	0.47	1.00	8.20E+03	0.379
BDE 8/11	6.87	0.47	2.00	2.37E+04	0.547
BDE 12/13	6.99	0.50	2.00	2.75E+04	0.636
BDE 15	7.13	0.46	1.00	1.64E+04	0.756
BDE 30	7.83	1.11	1.00	5.43E+03	0.569
BDE 32	8.28	1.02	1.00	7.01E+03	0.735
BDE 17/25	8.44	0.99	2.00	1.04E+04	0.547
BDE 28/33	8.67	1.06	2.00	1.10E+04	0.578
BDE 35	8.83	1.03	1.00	7.50E+03	0.787
BDE 37	9.02	0.99	1.00	7.55E+03	0.792
PBEB	9.03	1.05	1.00	7.33E+03	1.041
PBB 52	9.13	1.46	1.00	7.84E+03	1.113
HBB	10.01	0.38	1.00	6.50E+03	0.922
BDE 75	10.06	0.73	1.00	4.28E+03	0.636
BDE 51	10.13	0.64	1.00	5.31E+03	0.790
BDE 49	10.23	0.61	1.00	3.11E+03	0.463
BDE 71	10.29	0.70	1.00	3.54E+03	0.526
BDE 47	10.57	0.67	1.00	5.00E+03	0.750
BDE 79	10.73	0.61	1.00	5.11E+03	0.761
BDE 66	10.85	0.79	1.00	2.96E+03	0.440
BDE 77	11.33	0.66	1.00	4.26E+03	0.628
PBB 101	11.46	1.08	2.00	1.25E+04	0.931
BDE 100	12.2	0.95	1.50	6.35E+03	0.624
BDE 119/120	12.37	0.91	3.00	5.19E+03	0.363
BDE 99	12.71	1.01	1.50	3.86E+03	0.694
BDE 116	12.85	1.01	1.50	1.84E+03	0.258
BDE 83	12.99	1.06	1.50	2.00E+03	0.280
BDE 118	13.12	0.91	1.50	2.21E+03	0.310
BDE 85	13.6	1.15	1.50	2.65E+03	0.371
BDE 126	13.76	1.15	1.50	3.59E+03	0.633
BDE 105	13.92	0.93	1.50	2.04E+03	0.286
PBB 153	14.1	1.43	2.00	7.34E+03	1.143
BDE 155	13.76	1.43	2.00	8.93E+03	1.390
BDE 154	14.15	1.40	2.00	7.82E+03	0.815
BDE 153	14.87	1.53	2.00	3.17E+03	0.977
BDE 140	15.33	1.47	2.00	3.95E+03	0.615
BDE 138/166	15.87	1.18	4.00	4.15E+03	0.323
BDE 156	16.2	1.50	2.00	1.20E+03	0.186
BDE 128	16.82	1.53	2.00	1.40E+03	0.218
BDE 184	16.64	0.92	2.50	4.30E+03	0.989
BDE 183	17.01	1.05	2.50	2.89E+03	0.666
BDE 191	17.57	1.03	2.50	1.75E+03	0.403
BDE 181	18.11	1.08	2.50	1.65E+03	0.381
BDE 190	18.27	1.12	2.50	1.09E+03	0.251
PBB 180	17.1	1.17	2.00	1.99E+03	0.573
BDE 197	19.49	0.83	2.50	2.15E+03	0.644
BDE 203	19.77	0.71	2.50	1.62E+03	0.485
BDE 196	19.89	0.84	2.50	1.66E+03	0.496
PBB 194	19.97	1.09	2.00	9.82E+02	0.367
BDE 208	21.23	1.03	5.00	3.39E+03	0.657
BDE 207	21.34	0.96	5.00	3.98E+03	0.772
BDE 206	21.61	0.95	5.00	2.78E+03	0.539
PBB 206	21.06	0.96	5.00	1.52E+03	0.295
PBB 209	21.97	1.09	5.00	1.76E+03	0.343
BDE 209	23.27	1.13	5.00	1.05E+03	0.830
DBDPE	24.65	0.95	10.00	1.39E+03	0.784
Extraction Standards					
13C12 BDE 3	5.1	0.97	50.00	2.10E+06	5.517
13C12 BDE 15	7.13	0.49	50.00	1.08E+06	2.841
13C12 BDE 28	8.67	1.02	50.00	4.77E+05	1.251
13C6 HBB	10	2.59	50.00	3.52E+05	0.924
13C12 BDE 47	10.56	1.52	50.00	3.33E+05	0.875
13C12 BDE 77	11.31	1.53	50.00	3.39E+05	0.889
13C12 BDE 100	12.2	1.02	50.00	3.40E+05	3.170
13C12 BDE 99	12.69	1.00	50.00	1.86E+05	1.733
13C12 BDE 126	13.76	1.02	50.00	1.89E+05	1.762
13C12 BDE 154	14.13	1.40	50.00	2.40E+05	2.242
13C12 BDE 153	14.87	1.42	50.00	8.10E+04	0.756
13C12 BDE 183	17	1.02	50.00	8.69E+04	2.028
13C12 BDE 197	19.48	0.81	100.00	1.34E+05	1.560
13C12 BDE 207	21.34	1.04	250.00	2.57E+05	1.304
13C12 BDE 209	23.26	1.29	250.00	6.30E+04	0.319
13C14 DBDPE	24.65	1.01	500.00	8.86E+04	0.225
Cleanup Standard					
13C12 BDE 138 Cleanup	15.82	1.37	50.00	6.27E+04	0.585
Labeled Injection Standards					
13C12-BDE-79 (IS)	10.72	1.47	50.00	3.81E+05	
13C12-BDE-139 (IS)	15.14	1.43	50.00	1.07E+05	
13C12-BDE-180 (IS)	17.88	1.05	50.00	4.29E+04	
13C12-BDE-206 (IS)	21.6	1.03	250.00	1.97E+05	

ALS Life Sciences

Calibration Report

ALS Sample ID **H10-21-CS2-0123**
Analysis Method EPA 1614
Analysis Type Calibration

Filename	Inst #	Column	Run Date	Approved:	*Ella Gdyczynski*
10-210913B04	HRMS-10	Col#idDB5#US1450812H	13-Sep-2021 18:57		--e-signature--
					16-Sep-2021

Target Analytes	Ret. Time	Ion Ratio	Concentration ng/mL	Response	RRF
BDE 1	4.91	0.96	4.00	7.83E+04	0.438
BDE 2	5.01	0.97	4.00	1.18E+05	0.658
BDE 3	5.12	0.95	4.00	1.41E+05	0.791
BDE 10	6.33	0.47	4.00	4.09E+04	0.404
BDE 7	6.71	0.48	4.00	4.17E+04	0.412
BDE 8/11	6.88	0.48	8.00	1.22E+05	0.600
BDE 12/13	7	0.49	8.00	1.40E+05	0.691
BDE 15	7.14	0.49	4.00	8.45E+04	0.834
BDE 30	7.84	1.03	4.00	2.65E+04	0.561
BDE 32	8.28	1.00	4.00	3.76E+04	0.797
BDE 17/25	8.45	1.00	8.00	5.80E+04	0.614
BDE 28/33	8.68	1.01	8.00	6.10E+04	0.646
BDE 35	8.83	1.01	4.00	4.04E+04	0.856
BDE 37	9.02	1.03	4.00	4.03E+04	0.852
PBEB	9.03	1.07	4.00	4.02E+04	1.121
PBB 52	9.13	1.56	4.00	3.97E+04	1.108
HBB	10.01	0.40	4.00	3.56E+04	0.991
BDE 75	10.07	0.67	4.00	2.36E+04	0.673
BDE 51	10.13	0.66	4.00	3.00E+04	0.856
BDE 49	10.23	0.65	4.00	1.82E+04	0.518
BDE 71	10.31	0.68	4.00	1.84E+04	0.524
BDE 47	10.57	0.64	4.00	2.61E+04	0.770
BDE 79	10.73	0.64	4.00	3.04E+04	0.867
BDE 66	10.85	0.61	4.00	1.67E+04	0.476
BDE 77	11.33	0.70	4.00	2.63E+04	0.726
PBB 101	11.46	1.01	8.00	6.91E+04	0.986
BDE 100	12.21	1.00	6.00	3.66E+04	0.702
BDE 119/120	12.37	1.02	12.00	3.26E+04	0.419
BDE 99	12.71	1.03	6.00	2.35E+04	0.759
BDE 116	12.87	1.03	6.00	1.05E+04	0.270
BDE 83	12.99	1.04	6.00	1.21E+04	0.311
BDE 118	13.12	1.04	6.00	1.35E+04	0.348
BDE 85	13.6	1.04	6.00	1.54E+04	0.396
BDE 126	13.77	1.02	6.00	2.44E+04	0.726
BDE 105	13.92	1.06	6.00	1.34E+04	0.345
PBB 153	14.1	1.37	8.00	4.36E+04	1.199
BDE 155	13.76	1.35	8.00	5.59E+04	1.536
BDE 154	14.15	1.37	8.00	4.69E+04	0.871
BDE 153	14.88	1.47	8.00	1.99E+04	1.058
BDE 140	15.34	1.42	8.00	2.42E+04	0.666
BDE 138/166	15.87	1.43	16.00	2.57E+04	0.354
BDE 156	16.2	1.37	8.00	8.10E+03	0.223
BDE 128	16.84	1.43	8.00	9.14E+03	0.251
BDE 184	16.64	1.03	10.00	2.53E+04	0.951
BDE 183	17.01	1.06	10.00	1.75E+04	0.655
BDE 191	17.57	1.10	10.00	9.98E+03	0.374
BDE 181	18.12	0.97	10.00	1.07E+04	0.401
BDE 190	18.27	1.07	10.00	7.32E+03	0.275
PBB 180	17.12	0.95	8.00	1.27E+04	0.594
BDE 197	19.49	0.77	10.00	1.62E+04	0.722
BDE 203	19.77	0.81	10.00	1.06E+04	0.472
BDE 196	19.91	0.80	10.00	1.16E+04	0.516
PBB 194	19.97	1.25	8.00	6.78E+03	0.378
BDE 208	21.23	1.00	20.00	2.67E+04	0.627
BDE 207	21.35	1.00	20.00	3.41E+04	0.799
BDE 206	21.63	1.04	20.00	2.95E+04	0.691
PBB 206	21.07	1.06	20.00	1.01E+04	0.236
PBB 209	21.97	1.31	20.00	1.16E+04	0.272
BDE 209	23.28	1.29	20.00	1.07E+04	0.853
DBDPE	24.67	1.04	40.00	1.66E+04	0.754
Extraction Standards					
13C12 BDE 3	5.11	0.97	50.00	2.23E+06	4.541
13C12 BDE 15	7.13	0.50	50.00	1.27E+06	2.575
13C12 BDE 28	8.67	1.01	50.00	5.90E+05	1.201
13C6 HBB	10.01	2.58	50.00	4.48E+05	0.912
13C12 BDE 47	10.56	1.53	50.00	4.23E+05	0.861
13C12 BDE 77	11.33	1.57	50.00	4.53E+05	0.923
13C12 BDE 100	12.2	1.02	50.00	4.35E+05	2.791
13C12 BDE 99	12.69	1.05	50.00	2.58E+05	1.655
13C12 BDE 126	13.76	0.98	50.00	2.80E+05	1.795
13C12 BDE 154	14.13	1.38	50.00	3.37E+05	2.163
13C12 BDE 153	14.87	1.46	50.00	1.18E+05	0.757
13C12 BDE 183	17.01	1.01	50.00	1.33E+05	1.865
13C12 BDE 197	19.49	0.85	100.00	2.24E+05	1.568
13C12 BDE 207	21.34	1.01	250.00	5.33E+05	1.247
13C12 BDE 209	23.27	1.28	250.00	1.57E+05	0.367
13C14 DBDPE	24.66	1.04	500.00	2.75E+05	0.321
Cleanup Standard					
13C12 BDE 138 Cleanup	15.83	1.39	50.00	1.02E+05	0.658
Labeled Injection Standards					
13C12-BDE-79 (IS)	10.73	1.52	50.00	4.91E+05	
13C12-BDE-139 (IS)	15.14	1.47	50.00	1.56E+05	
13C12-BDE-180 (IS)	17.88	1.03	50.00	7.15E+04	
13C12-BDE-206 (IS)	21.61	1.02	250.00	4.28E+05	

ALS Life Sciences

Calibration Report

ALS Sample ID **H10-21-CCV-0123**
Analysis Method EPA 1614
Analysis Type Calibration

Filename	Inst #	Column	Run Date	Approved:	*Ella Gdyczynski*
10-210913B03	HRMS-10	Col#idDB5#US1450812H	13-Sep-2021 18:23		--e-signature--
					16-Sep-2021

Target Analytes	Ret. Time	Ion Ratio	Concentration ng/mL	Response	RRF
BDE 1	4.9	1.00	20.00	3.56E+05	0.422
BDE 2	5.01	0.98	20.00	5.63E+05	0.668
BDE 3	5.11	0.99	20.00	6.60E+05	0.783
BDE 10	6.33	0.50	20.00	2.12E+05	0.430
BDE 7	6.71	0.50	20.00	2.21E+05	0.447
BDE 8/11	6.87	0.50	40.00	6.24E+05	0.632
BDE 12/13	6.99	0.50	40.00	7.15E+05	0.724
BDE 15	7.14	0.50	20.00	4.36E+05	0.883
BDE 30	7.83	1.02	20.00	1.44E+05	0.624
BDE 32	8.28	1.02	20.00	2.02E+05	0.874
BDE 17/25	8.45	1.00	40.00	3.08E+05	0.668
BDE 28/33	8.67	1.01	40.00	3.21E+05	0.697
BDE 35	8.83	1.02	20.00	2.24E+05	0.971
BDE 37	9.02	1.02	20.00	2.23E+05	0.966
PBEB	9.03	1.06	20.00	2.16E+05	1.255
PBB 52	9.13	1.51	20.00	2.13E+05	1.238
HBB	10.01	0.40	20.00	1.88E+05	1.090
BDE 75	10.07	0.66	20.00	1.33E+05	0.772
BDE 51	10.13	0.68	20.00	1.59E+05	0.927
BDE 49	10.23	0.67	20.00	1.05E+05	0.613
BDE 71	10.29	0.67	20.00	1.00E+05	0.583
BDE 47	10.57	0.68	20.00	1.44E+05	0.875
BDE 79	10.73	0.68	20.00	1.66E+05	0.967
BDE 66	10.85	0.69	20.00	9.46E+04	0.550
BDE 77	11.33	0.67	20.00	1.47E+05	0.819
PBB 101	11.46	1.02	40.00	3.70E+05	1.075
BDE 100	12.2	1.02	30.00	2.04E+05	0.809
BDE 119/120	12.37	1.03	60.00	1.87E+05	0.483
BDE 99	12.71	1.02	30.00	1.32E+05	0.863
BDE 116	12.85	1.02	30.00	6.08E+04	0.314
BDE 83	12.99	0.99	30.00	7.11E+04	0.367
BDE 118	13.12	0.97	30.00	8.30E+04	0.428
BDE 85	13.6	1.02	30.00	9.16E+04	0.472
BDE 126	13.76	1.00	30.00	1.44E+05	0.813
BDE 105	13.92	1.02	30.00	7.76E+04	0.400
PBB 153	14.1	1.36	40.00	2.48E+05	1.306
BDE 155	13.76	1.36	40.00	3.12E+05	1.645
BDE 154	14.13	1.38	40.00	2.68E+05	0.947
BDE 153	14.88	1.37	40.00	1.17E+05	1.211
BDE 140	15.33	1.37	40.00	1.40E+05	0.739
BDE 138/166	15.87	1.40	80.00	1.55E+05	0.409
BDE 156	16.2	1.44	40.00	4.92E+04	0.259
BDE 128	16.82	1.48	40.00	5.60E+04	0.295
BDE 184	16.64	1.00	50.00	1.56E+05	1.106
BDE 183	17.01	1.02	50.00	1.09E+05	0.774
BDE 191	17.57	1.01	50.00	6.49E+04	0.461
BDE 181	18.11	0.99	50.00	6.69E+04	0.475
BDE 190	18.27	1.03	50.00	4.45E+04	0.316
PBB 180	17.12	1.00	40.00	7.93E+04	0.704
BDE 197	19.49	0.79	50.00	9.33E+04	0.810
BDE 203	19.77	0.79	50.00	6.60E+04	0.573
BDE 196	19.89	0.79	50.00	7.38E+04	0.640
PBB 194	19.97	1.31	40.00	4.36E+04	0.473
BDE 208	21.23	1.02	100.00	1.77E+05	0.749
BDE 207	21.34	1.01	100.00	2.24E+05	0.950
BDE 206	21.61	1.02	100.00	1.74E+05	0.736
PBB 206	21.07	1.05	100.00	6.92E+04	0.293
PBB 209	21.97	1.25	100.00	7.87E+04	0.333
BDE 209	23.27	1.29	100.00	6.19E+04	0.964
DBDPE	24.66	1.01	200.00	9.67E+04	0.901
Extraction Standards					
13C12 BDE 3	5.1	0.97	50.00	2.11E+06	4.441
13C12 BDE 15	7.13	0.49	50.00	1.23E+06	2.599
13C12 BDE 28	8.67	1.03	50.00	5.77E+05	1.214
13C6 HBB	10	2.60	50.00	4.31E+05	0.907
13C12 BDE 47	10.56	1.52	50.00	4.12E+05	0.867
13C12 BDE 77	11.31	1.56	50.00	4.48E+05	0.943
13C12 BDE 100	12.2	1.03	50.00	4.20E+05	2.808
13C12 BDE 99	12.69	1.04	50.00	2.54E+05	1.699
13C12 BDE 126	13.76	0.99	50.00	2.96E+05	1.976
13C12 BDE 154	14.13	1.38	50.00	3.54E+05	2.365
13C12 BDE 153	14.87	1.41	50.00	1.21E+05	0.808
13C12 BDE 183	17	0.99	50.00	1.41E+05	1.901
13C12 BDE 197	19.49	0.80	100.00	2.30E+05	1.554
13C12 BDE 207	21.34	1.02	250.00	5.90E+05	1.313
13C12 BDE 209	23.26	1.26	250.00	1.61E+05	0.357
13C14 DBDPE	24.65	1.05	500.00	2.68E+05	0.298
Cleanup Standard					
13C12 BDE 138 Cleanup	15.82	1.40	50.00	1.07E+05	0.715
Labeled Injection Standards					
13C12-BDE-79 (IS)	10.72	1.52	50.00	4.75E+05	
13C12-BDE-139 (IS)	15.14	1.42	50.00	1.50E+05	
13C12-BDE-180 (IS)	17.88	1.01	50.00	7.41E+04	
13C12-BDE-206 (IS)	21.61	1.01	250.00	4.50E+05	

ALS Life Sciences

Calibration Report

ALS Sample ID **H10-21-CS4-0123**
Analysis Method EPA 1614
Analysis Type Calibration

Filename	Inst #	Column	Run Date	Approved:	*Ella Gdyczynski*
10-210913B07	HRMS-10	Col#idDB5#US1450812H	13-Sep-2021 20:42		--e-signature--
					16-Sep-2021

Target Analytes	Ret. Time	Ion Ratio	Concentration ng/mL	Response	RRF
BDE 1	4.91	0.90	80.00	1.58E+06	0.433
BDE 2	5.01	0.91	80.00	2.40E+06	0.659
BDE 3	5.12	0.95	80.00	2.78E+06	0.763
BDE 10	6.34	0.50	80.00	8.71E+05	0.459
BDE 7	6.71	0.50	80.00	8.58E+05	0.452
BDE 8/11	6.89	0.50	160.00	2.45E+06	0.645
BDE 12/13	7	0.50	160.00	2.83E+06	0.747
BDE 15	7.15	0.50	80.00	1.65E+06	0.868
BDE 30	7.84	1.00	80.00	5.58E+05	0.668
BDE 32	8.29	1.01	80.00	7.43E+05	0.889
BDE 17/25	8.45	1.00	160.00	1.14E+06	0.681
BDE 28/33	8.68	1.01	160.00	1.18E+06	0.703
BDE 35	8.84	1.01	80.00	8.13E+05	0.973
BDE 37	9.03	1.02	80.00	8.16E+05	0.976
PBEB	9.04	1.03	80.00	7.99E+05	1.389
PBB 52	9.14	1.52	80.00	7.92E+05	1.377
HBB	10.01	0.41	80.00	6.35E+05	1.104
BDE 75	10.07	0.67	80.00	4.95E+05	0.877
BDE 51	10.15	0.67	80.00	5.70E+05	1.011
BDE 49	10.23	0.67	80.00	3.64E+05	0.645
BDE 71	10.31	0.68	80.00	3.84E+05	0.681
BDE 47	10.57	0.68	80.00	4.92E+05	0.882
BDE 79	10.74	0.68	80.00	5.50E+05	0.976
BDE 66	10.85	0.67	80.00	3.34E+05	0.593
BDE 77	11.33	0.64	80.00	4.98E+05	0.874
PBB 101	11.48	1.02	160.00	1.33E+06	1.179
BDE 100	12.21	1.00	120.00	7.00E+05	0.825
BDE 119/120	12.38	1.02	240.00	6.80E+05	0.537
BDE 99	12.72	1.02	120.00	4.42E+05	0.891
BDE 116	12.87	1.00	120.00	2.19E+05	0.345
BDE 83	13	1.01	120.00	2.43E+05	0.384
BDE 118	13.12	0.98	120.00	2.75E+05	0.435
BDE 85	13.61	1.01	120.00	3.14E+05	0.495
BDE 126	13.77	1.01	120.00	4.67E+05	0.840
BDE 105	13.94	1.01	120.00	2.89E+05	0.456
PBB 153	14.11	1.36	160.00	8.50E+05	1.364
BDE 155	13.77	1.37	160.00	1.06E+06	1.707
BDE 154	14.15	1.37	160.00	9.02E+05	0.955
BDE 153	14.88	1.37	160.00	3.80E+05	1.260
BDE 140	15.34	1.39	160.00	4.75E+05	0.763
BDE 138/166	15.88	1.39	320.00	5.25E+05	0.422
BDE 156	16.22	1.40	160.00	1.67E+05	0.268
BDE 128	16.84	1.39	160.00	1.93E+05	0.310
BDE 184	16.65	1.02	200.00	5.40E+05	1.244
BDE 183	17.02	1.05	200.00	3.53E+05	0.813
BDE 191	17.58	1.03	200.00	2.18E+05	0.501
BDE 181	18.12	1.02	200.00	2.22E+05	0.511
BDE 190	18.27	1.00	200.00	1.48E+05	0.340
PBB 180	17.13	1.02	160.00	2.69E+05	0.774
BDE 197	19.5	0.80	200.00	2.70E+05	0.858
BDE 203	19.78	0.80	200.00	1.95E+05	0.619
BDE 196	19.91	0.81	200.00	2.32E+05	0.736
PBB 194	19.98	1.30	160.00	1.50E+05	0.596
BDE 208	21.24	1.01	400.00	5.72E+05	0.899
BDE 207	21.35	1.01	400.00	6.43E+05	1.011
BDE 206	21.63	1.04	400.00	4.53E+05	0.712
PBB 206	21.08	1.06	400.00	2.27E+05	0.357
PBB 209	21.98	1.28	400.00	2.53E+05	0.398
BDE 209	23.28	1.36	400.00	1.56E+05	1.054
DBDPE	24.66	1.00	800.00	1.87E+05	0.958
Extraction Standards					
13C12 BDE 3	5.11	0.98	50.00	2.28E+06	5.744
13C12 BDE 15	7.14	0.50	50.00	1.19E+06	2.994
13C12 BDE 28	8.68	1.01	50.00	5.22E+05	1.318
13C6 HBB	10.01	2.59	50.00	3.59E+05	0.907
13C12 BDE 47	10.57	1.59	50.00	3.49E+05	0.880
13C12 BDE 77	11.33	1.53	50.00	3.56E+05	0.899
13C12 BDE 100	12.2	1.02	50.00	3.54E+05	3.315
13C12 BDE 99	12.71	1.02	50.00	2.07E+05	1.937
13C12 BDE 126	13.77	1.01	50.00	2.32E+05	2.172
13C12 BDE 154	14.15	1.37	50.00	2.95E+05	2.766
13C12 BDE 153	14.88	1.40	50.00	9.43E+04	0.884
13C12 BDE 183	17.01	0.99	50.00	1.09E+05	2.272
13C12 BDE 197	19.49	0.82	100.00	1.57E+05	1.645
13C12 BDE 207	21.35	1.01	250.00	3.98E+05	1.393
13C12 BDE 209	23.28	1.37	250.00	9.27E+04	0.325
13C14 DBDPE	24.66	0.98	500.00	1.22E+05	0.214
Cleanup Standard					
13C12 BDE 138 Cleanup	15.83	1.43	50.00	7.74E+04	0.726
Labeled Injection Standards					
13C12-BDE-79 (IS)	10.73	1.58	50.00	3.96E+05	
13C12-BDE-139 (IS)	15.14	1.47	50.00	1.07E+05	
13C12-BDE-180 (IS)	17.88	0.99	50.00	4.78E+04	
13C12-BDE-206 (IS)	21.61	1.03	250.00	2.85E+05	

ALS Life Sciences

Calibration Report

ALS Sample ID **H10-21-CS5-0123**
Analysis Method EPA 1614
Analysis Type Calibration

Filename	Inst #	Column	Run Date	Approved:	*Ella Gdyczynski*
10-210913B06	HRMS-10	Col#idDB5#US1450812H	13-Sep-2021 20:07		--e-signature--
					16-Sep-2021

Target Analytes	Ret. Time	Ion Ratio	Concentration ng/mL	Response	RRF
BDE 1	4.89	0.99	240.00	4.61E+06	0.437
BDE 2	5	0.98	240.00	7.46E+06	0.707
BDE 3	5.1	1.00	240.00	8.47E+06	0.802
BDE 10	6.32	0.50	240.00	2.67E+06	0.458
BDE 7	6.71	0.50	240.00	2.72E+06	0.467
BDE 8/11	6.87	0.50	480.00	7.79E+06	0.668
BDE 12/13	6.99	0.50	480.00	9.05E+06	0.776
BDE 15	7.13	0.50	240.00	5.23E+06	0.897
BDE 30	7.83	1.00	240.00	1.73E+06	0.636
BDE 32	8.27	1.01	240.00	2.42E+06	0.891
BDE 17/25	8.44	1.01	480.00	3.81E+06	0.701
BDE 28/33	8.67	1.01	480.00	3.90E+06	0.719
BDE 35	8.82	1.01	240.00	2.79E+06	1.029
BDE 37	9.01	1.01	240.00	2.80E+06	1.031
PBEB	9.02	1.04	240.00	2.63E+06	1.445
PBB 52	9.12	1.52	240.00	2.69E+06	1.478
HBB	10	0.41	240.00	2.06E+06	1.129
BDE 75	10.06	0.67	240.00	1.68E+06	0.887
BDE 51	10.12	0.68	240.00	1.85E+06	0.978
BDE 49	10.22	0.67	240.00	1.27E+06	0.669
BDE 71	10.29	0.68	240.00	1.27E+06	0.672
BDE 47	10.56	0.68	240.00	1.68E+06	0.920
BDE 79	10.72	0.68	240.00	1.85E+06	0.976
BDE 66	10.84	0.67	240.00	1.16E+06	0.611
BDE 77	11.31	0.67	240.00	1.79E+06	0.912
PBB 101	11.46	1.02	480.00	4.67E+06	1.233
BDE 100	12.2	1.02	360.00	2.37E+06	0.855
BDE 119/120	12.37	1.02	720.00	2.44E+06	0.564
BDE 99	12.69	1.02	360.00	1.53E+06	0.912
BDE 116	12.85	1.02	360.00	7.65E+05	0.353
BDE 83	12.99	0.98	360.00	8.56E+05	0.395
BDE 118	13.1	1.01	360.00	9.92E+05	0.458
BDE 85	13.59	1.02	360.00	1.19E+06	0.552
BDE 126	13.76	1.02	360.00	1.85E+06	0.904
BDE 105	13.92	1.01	360.00	1.11E+06	0.511
PBB 153	14.09	1.35	480.00	3.14E+06	1.444
BDE 155	13.76	1.37	480.00	3.76E+06	1.732
BDE 154	14.13	1.35	480.00	3.19E+06	0.987
BDE 153	14.87	1.39	480.00	1.44E+06	1.291
BDE 140	15.33	1.39	480.00	1.80E+06	0.829
BDE 138/166	15.87	1.39	960.00	2.10E+06	0.484
BDE 156	16.2	1.41	480.00	7.65E+05	0.352
BDE 128	16.82	1.37	480.00	8.64E+05	0.398
BDE 184	16.64	1.01	600.00	2.18E+06	1.261
BDE 183	17.01	0.99	600.00	1.43E+06	0.827
BDE 191	17.57	1.03	600.00	9.82E+05	0.568
BDE 181	18.11	1.03	600.00	9.86E+05	0.571
BDE 190	18.27	1.06	600.00	6.87E+05	0.398
PBB 180	17.1	1.01	480.00	1.12E+06	0.812
BDE 197	19.49	0.82	600.00	1.13E+06	0.899
BDE 203	19.77	0.81	600.00	8.99E+05	0.713
BDE 196	19.89	0.82	600.00	1.13E+06	0.895
PBB 194	19.97	1.29	480.00	7.49E+05	0.742
BDE 208	21.23	1.02	1200.00	2.93E+06	0.992
BDE 207	21.34	1.01	1200.00	2.99E+06	1.014
BDE 206	21.61	1.01	1200.00	2.23E+06	0.757
PBB 206	21.07	1.03	1200.00	1.12E+06	0.378
PBB 209	21.97	1.25	1200.00	1.29E+06	0.435
BDE 209	23.27	1.26	1200.00	8.27E+05	1.127
DBDPE	24.66	1.03	2400.00	9.88E+05	1.056
Extraction Standards					
13C12 BDE 3	5.1	0.97	50.00	2.20E+06	5.030
13C12 BDE 15	7.12	0.49	50.00	1.21E+06	2.778
13C12 BDE 28	8.67	1.01	50.00	5.65E+05	1.293
13C6 HBB	10	2.57	50.00	3.79E+05	0.868
13C12 BDE 47	10.56	1.58	50.00	3.81E+05	0.871
13C12 BDE 77	11.31	1.54	50.00	4.09E+05	0.935
13C12 BDE 100	12.18	1.02	50.00	3.85E+05	3.474
13C12 BDE 99	12.69	1.02	50.00	2.33E+05	2.099
13C12 BDE 126	13.76	1.03	50.00	2.84E+05	2.559
13C12 BDE 154	14.13	1.39	50.00	3.37E+05	3.034
13C12 BDE 153	14.87	1.41	50.00	1.16E+05	1.045
13C12 BDE 183	17	1.03	50.00	1.44E+05	2.502
13C12 BDE 197	19.48	0.81	100.00	2.10E+05	1.827
13C12 BDE 207	21.34	1.01	250.00	6.15E+05	1.384
13C12 BDE 209	23.26	1.31	250.00	1.53E+05	0.344
13C14 DBDPE	24.65	1.02	500.00	1.95E+05	0.219
Cleanup Standard					
13C12 BDE 138 Cleanup	15.82	1.45	50.00	9.94E+04	0.896
Labeled Injection Standards					
13C12-BDE-79 (IS)	10.72	1.56	50.00	4.37E+05	
13C12-BDE-139 (IS)	15.13	1.46	50.00	1.11E+05	
13C12-BDE-180 (IS)	17.86	1.01	50.00	5.75E+04	
13C12-BDE-206 (IS)	21.61	1.01	250.00	4.44E+05	

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Continuing Calibration Report

Sample Name	**CCV**	Sampling Date	n/a		
ALS Sample ID	H10-21-CCV-0123	Extraction Date	n/a		Approved:
Analysis Method	EPA 1614	Sample Size	1	n/a	*Ella Gdyczynski*
Analysis Type	CCV	Percent Moisture	n/a		--e-signature--
Sample Matrix	QC	Split Ratio	1		16-Sep-2021

Run Information	**Run 1**
Filename	10-210913B19
Run Date	14-Sep-21 03:40
Final Volume	40 uL
Dilution Factor	1
Analysis Units	%
Instrument - Column	HRMS-10 DB5US1450812

Target Analytes	**pg/uL**	**Ret. Time**	**% Rec**	**Limits**	**Flags**
BDE 10	20	6.34	118	70-130	
BDE 7	20	6.71	116	70-130	
BDE 8/11	40	6.88	111	70-130	
BDE 12/13	40	7.00	110	70-130	
BDE 15	20	7.14	104	70-130	
BDE 30	20	7.84	116	70-130	
BDE 32	20	8.28	114	70-130	
BDE 17/25	40	8.45	111	70-130	
BDE 28/33	40	8.68	107	70-130	
BDE 35	20	8.83	112	70-130	
BDE 37	20	9.02	108	70-130	
HBB	20	10.01	104	70-130	
BDE 75	20	10.07	105	70-130	
BDE 51	20	10.15	105	70-130	
BDE 49	20	10.23	106	70-130	
BDE 71	20	10.31	111	70-130	
BDE 47	20	10.57	102	70-130	
BDE 79	20	10.73	101	70-130	
BDE 66	20	10.85	103	70-130	
BDE 77	20	11.33	101	70-130	
BDE 100	30	12.21	105	70-130	
BDE 119/120	60	12.38	104	70-130	
BDE 99	30	12.71	104	70-130	
BDE 116	30	12.87	101	70-130	
BDE 83	30	13.00	104	70-130	
BDE 118	30	13.12	106	70-130	
BDE 85	30	13.60	111	70-130	
BDE 126	30	13.77	110	70-130	
BDE 105	30	13.94	106	70-130	
BDE 155	40	13.76	105	70-130	
BDE 154	40	14.15	103	70-130	
BDE 153	40	14.88	102	70-130	
BDE 140	40	15.34	113	70-130	
BDE 138/166	80	15.84	107	70-130	
BDE 156	40	16.22	117	70-130	
BDE 128	40	16.84	122	70-130	
BDE 184	50	16.65	104	70-130	
BDE 183	50	17.01	100	70-130	
BDE 191	50	17.57	107	70-130	
BDE 181	50	18.12	107	70-130	
BDE 190	50	18.27	103	70-130	
BDE 197	50	19.49	100	70-130	
BDE 203	50	19.77	105	70-130	
BDE 196	50	19.91	103	70-130	
BDE 208	100	21.23	114	70-130	
BDE 207	100	21.35	97	70-130	
BDE 206	100	21.61	116	70-130	
BDE 209	100	23.28	100	50-200	
Extraction Standards	**pg/uL**		**% Rec**	**Limits**	
13C12 BDE 15	50	7.14	104	50-150	
13C12 BDE 28	50	8.68	100	50-150	
13C6 HBB	50	10.01	87	50-150	
13C12 BDE 47	50	10.57	100	50-150	
13C12 BDE 77	50	11.33	103	50-150	
13C12 BDE 100	50	12.20	93	50-150	
13C12 BDE 99	50	12.71	94	50-150	
13C12 BDE 126	50	13.76	94	50-150	
13C12 BDE 154	50	14.13	86	50-150	
13C12 BDE 153	50	14.87	94	50-150	
13C12 BDE 183	50	17.01	83	50-150	
13C12 BDE 197	100	19.49	93	50-150	
13C12 BDE 207	250	21.34	89	50-150	
13C12 BDE 209	250	23.27	121	25-200	
Cleanup Standard	**pg/uL**				
13C12 BDE 138 Cleanup	50	15.83	99	40-125	

ALS Life Sciences

Continuing Calibration Report

Sample Name	**CCV**	Sampling Date	n/a		
ALS Sample ID	H10-21-CCV-0125	Extraction Date	n/a		Approved:
Analysis Method	EPA 1614	Sample Size	1	n/a	*Ella Gdyczynski*
Analysis Type	CCV	Percent Moisture	n/a		--e-signature--
Sample Matrix	QC	Split Ratio	1		16-Sep-2021

Run Information	**Run 1**
Filename	10-210913B34
Run Date	14-Sep-21 15:31
Final Volume	40 uL
Dilution Factor	1
Analysis Units	%
Instrument - Column	HRMS-10 DB5US1450812

Target Analytes	**pg/uL**	**Ret. Time**	**% Rec**	**Limits**	**Flags**
BDE 10	20	6.33	105	70-130	
BDE 7	20	6.71	105	70-130	
BDE 8/11	40	6.87	104	70-130	
BDE 12/13	40	6.99	103	70-130	
BDE 15	20	7.14	103	70-130	
BDE 30	20	7.83	105	70-130	
BDE 32	20	8.28	106	70-130	
BDE 17/25	40	8.45	105	70-130	
BDE 28/33	40	8.67	103	70-130	
BDE 35	20	8.83	102	70-130	
BDE 37	20	9.02	101	70-130	
HBB	20	10.01	104	70-130	
BDE 75	20	10.07	101	70-130	
BDE 51	20	10.13	108	70-130	
BDE 49	20	10.23	108	70-130	
BDE 71	20	10.29	108	70-130	
BDE 47	20	10.57	106	70-130	
BDE 79	20	10.73	110	70-130	
BDE 66	20	10.85	108	70-130	
BDE 77	20	11.33	107	70-130	
BDE 100	30	12.20	105	70-130	
BDE 119/120	60	12.37	103	70-130	
BDE 99	30	12.71	106	70-130	
BDE 116	30	12.85	96	70-130	
BDE 83	30	12.99	99	70-130	
BDE 118	30	13.12	99	70-130	
BDE 85	30	13.60	99	70-130	
BDE 126	30	13.77	107	70-130	
BDE 105	30	13.92	99	70-130	
BDE 155	40	13.76	105	70-130	
BDE 154	40	14.15	106	70-130	
BDE 153	40	14.88	103	70-130	
BDE 140	40	15.34	102	70-130	
BDE 138/166	80	15.87	99	70-130	
BDE 156	40	16.22	98	70-130	
BDE 128	40	16.84	96	70-130	
BDE 184	50	16.64	98	70-130	
BDE 183	50	17.01	101	70-130	
BDE 191	50	17.57	94	70-130	
BDE 181	50	18.12	90	70-130	
BDE 190	50	18.27	86	70-130	
BDE 197	50	19.49	104	70-130	
BDE 203	50	19.77	84	70-130	
BDE 196	50	19.91	90	70-130	
BDE 208	100	21.23	90	70-130	
BDE 207	100	21.35	105	70-130	
BDE 206	100	21.61	105	70-130	
BDE 209	100	23.27	96	50-200	

Extraction Standards	**pg/uL**		**% Rec**	**Limits**
13C12 BDE 15	50	7.13	91	50-150
13C12 BDE 28	50	8.67	95	50-150
13C6 HBB	50	10.00	85	50-150
13C12 BDE 47	50	10.56	96	50-150
13C12 BDE 77	50	11.31	98	50-150
13C12 BDE 100	50	12.20	99	50-150
13C12 BDE 99	50	12.69	98	50-150
13C12 BDE 126	50	13.76	98	50-150
13C12 BDE 154	50	14.13	97	50-150
13C12 BDE 153	50	14.87	99	50-150
13C12 BDE 183	50	17.01	100	50-150
13C12 BDE 197	100	19.49	92	50-150
13C12 BDE 207	250	21.34	98	50-150
13C12 BDE 209	250	23.26	72	25-200

Cleanup Standard	**pg/uL**			
13C12 BDE 138 Cleanup	50	15.83	100	40-125

ALS Life Sciences

Continuing Calibration Report

Sample Name	**CCV**	Sampling Date	n/a		
ALS Sample ID	H10-21-CCV-0126	Extraction Date	n/a		Approved:
Analysis Method	EPA 1614	Sample Size	1	n/a	*Ella Gdyczynski*
Analysis Type	CCV	Percent Moisture	n/a		--e-signature--
Sample Matrix	QC	Split Ratio	1		16-Sep-2021

Run Information	**Run 1**
Filename	10-210914A21
Run Date	15-Sep-21 14:02
Final Volume	40 uL
Dilution Factor	1
Analysis Units	%
Instrument - Column	HRMS-10 DB5US1450812

Target Analytes	**pg/uL**	**Ret. Time**	**% Rec**	**Limits**	**Flags**
BDE 10	20	6.34	110	70-130	
BDE 7	20	6.71	109	70-130	
BDE 8/11	40	6.88	107	70-130	
BDE 12/13	40	7.00	106	70-130	
BDE 15	20	7.14	104	70-130	
BDE 30	20	7.84	114	70-130	
BDE 32	20	8.28	113	70-130	
BDE 17/25	40	8.45	113	70-130	
BDE 28/33	40	8.68	109	70-130	
BDE 35	20	8.84	111	70-130	
BDE 37	20	9.03	107	70-130	
HBB	20	10.01	104	70-130	
BDE 75	20	10.07	103	70-130	
BDE 51	20	10.13	105	70-130	
BDE 49	20	10.23	102	70-130	
BDE 71	20	10.31	114	70-130	
BDE 47	20	10.57	107	70-130	
BDE 79	20	10.73	108	70-130	
BDE 66	20	10.85	113	70-130	
BDE 77	20	11.33	100	70-130	
BDE 100	30	12.21	108	70-130	
BDE 119/120	60	12.38	104	70-130	
BDE 99	30	12.71	105	70-130	
BDE 116	30	12.87	101	70-130	
BDE 83	30	13.00	104	70-130	
BDE 118	30	13.12	104	70-130	
BDE 85	30	13.60	105	70-130	
BDE 126	30	13.77	107	70-130	
BDE 105	30	13.94	112	70-130	
BDE 155	40	13.76	101	70-130	
BDE 154	40	14.15	105	70-130	
BDE 153	40	14.88	104	70-130	
BDE 140	40	15.34	110	70-130	
BDE 138/166	80	15.88	111	70-130	
BDE 156	40	16.22	113	70-130	
BDE 128	40	16.84	114	70-130	
BDE 184	50	16.65	101	70-130	
BDE 183	50	17.02	104	70-130	
BDE 191	50	17.58	104	70-130	
BDE 181	50	18.12	101	70-130	
BDE 190	50	18.29	104	70-130	
BDE 197	50	19.50	104	70-130	
BDE 203	50	19.78	99	70-130	
BDE 196	50	19.91	100	70-130	
BDE 208	100	21.24	95	70-130	
BDE 207	100	21.35	108	70-130	
BDE 206	100	21.63	123	70-130	
BDE 209	100	23.28	101	50-200	

Extraction Standards	**pg/uL**		**% Rec**	**Limits**
13C12 BDE 15	50	7.14	92	50-150
13C12 BDE 28	50	8.68	90	50-150
13C6 HBB	50	10.01	79	50-150
13C12 BDE 47	50	10.57	93	50-150
13C12 BDE 77	50	11.33	99	50-150
13C12 BDE 100	50	12.20	90	50-150
13C12 BDE 99	50	12.71	95	50-150
13C12 BDE 126	50	13.77	101	50-150
13C12 BDE 154	50	14.15	89	50-150
13C12 BDE 153	50	14.88	98	50-150
13C12 BDE 183	50	17.01	86	50-150
13C12 BDE 197	100	19.49	85	50-150
13C12 BDE 207	250	21.35	89	50-150
13C12 BDE 209	250	23.27	121	25-200

Cleanup Standard	**pg/uL**			
13C12 BDE 138 Cleanup	50	15.83	102	40-125

ALS Life Sciences

Continuing Calibration Report

Sample Name	**CCV**	Sampling Date	n/a		
ALS Sample ID	H10-21-CCV-0127	Extraction Date	n/a		Approved:
Analysis Method	EPA 1614	Sample Size	1	n/a	*Ella Gdyczynski*
Analysis Type	CCV	Percent Moisture	n/a		--e-signature--
Sample Matrix	QC	Split Ratio	1		16-Sep-2021

Run Information	**Run 1**
Filename	10-210914A25
Run Date	15-Sep-21 18:38
Final Volume	40 uL
Dilution Factor	1
Analysis Units	%
Instrument - Column	HRMS-10 DB5US1450812

Target Analytes	**pg/uL**	**Ret. Time**	**% Rec**	**Limits**	**Flags**
BDE 10	20	6.33	116	70-130	
BDE 7	20	6.71	111	70-130	
BDE 8/11	40	6.87	107	70-130	
BDE 12/13	40	6.99	107	70-130	
BDE 15	20	7.13	104	70-130	
BDE 30	20	7.83	117	70-130	
BDE 32	20	8.28	113	70-130	
BDE 17/25	40	8.44	109	70-130	
BDE 28/33	40	8.67	104	70-130	
BDE 35	20	8.83	105	70-130	
BDE 37	20	9.02	102	70-130	
HBB	20	10.01	106	70-130	
BDE 75	20	10.06	108	70-130	
BDE 51	20	10.13	116	70-130	
BDE 49	20	10.23	104	70-130	
BDE 71	20	10.29	119	70-130	
BDE 47	20	10.57	105	70-130	
BDE 79	20	10.73	110	70-130	
BDE 66	20	10.85	110	70-130	
BDE 77	20	11.33	107	70-130	
BDE 100	30	12.20	107	70-130	
BDE 119/120	60	12.37	106	70-130	
BDE 99	30	12.71	107	70-130	
BDE 116	30	12.85	104	70-130	
BDE 83	30	12.99	107	70-130	
BDE 118	30	13.12	103	70-130	
BDE 85	30	13.60	101	70-130	
BDE 126	30	13.77	110	70-130	
BDE 105	30	13.92	105	70-130	
BDE 155	40	13.76	105	70-130	
BDE 154	40	14.15	106	70-130	
BDE 153	40	14.88	104	70-130	
BDE 140	40	15.34	110	70-130	
BDE 138/166	80	15.84	106	70-130	
BDE 156	40	16.22	107	70-130	
BDE 128	40	16.82	106	70-130	
BDE 184	50	16.64	102	70-130	
BDE 183	50	17.01	102	70-130	
BDE 191	50	17.57	97	70-130	
BDE 181	50	18.12	102	70-130	
BDE 190	50	18.27	101	70-130	
BDE 197	50	19.49	103	70-130	
BDE 203	50	19.77	100	70-130	
BDE 196	50	19.89	102	70-130	
BDE 208	100	21.23	98	70-130	
BDE 207	100	21.34	104	70-130	
BDE 206	100	21.61	120	70-130	
BDE 209	100	23.28	101	50-200	

Extraction Standards	**pg/uL**		**% Rec**	**Limits**
13C12 BDE 15	50	7.13	114	50-150
13C12 BDE 28	50	8.67	106	50-150
13C6 HBB	50	10.00	88	50-150
13C12 BDE 47	50	10.56	100	50-150
13C12 BDE 77	50	11.31	97	50-150
13C12 BDE 100	50	12.20	97	50-150
13C12 BDE 99	50	12.69	97	50-150
13C12 BDE 126	50	13.76	96	50-150
13C12 BDE 154	50	14.13	91	50-150
13C12 BDE 153	50	14.87	94	50-150
13C12 BDE 183	50	17.00	89	50-150
13C12 BDE 197	100	19.49	90	50-150
13C12 BDE 207	250	21.34	89	50-150
13C12 BDE 209	250	23.27	127	25-200

Cleanup Standard	**pg/uL**			
13C12 BDE 138 Cleanup	50	15.83	97	40-125

ALS Life Sciences

Second Source Calibration Verification Report

Sample Name	**CVS**	Sampling Date	n/a		
ALS Sample ID	H10-21-RS2-0123	Extraction Date	n/a		Approved:
Analysis Method	EPA 1614	Sample Size	1	n/a	*Ella Gdyczynski*
Analysis Type	CCV	Percent Moisture	n/a		--e-signature--
Sample Matrix	QC	Split Ratio	1		16-Sep-2021

Run Information	**Run 1**
Filename	10-210913B33
Run Date	14-Sep-21 14:56
Final Volume	40 uL
Dilution Factor	1
Analysis Units	%
Instrument - Column	HRMS-10 DB5US1450812

Target Analytes	**pg/uL**	**Ret. Time**	**% Rec**	**Limits**	**Flags**
BDE 10	50	6.34	117	70-130	
BDE 7	50	6.71	130	70-130	
BDE 8/11	0				
BDE 12/13	0				
BDE 15	50	7.14	116	70-130	
BDE 30	50	7.84	117	70-130	
BDE 32	0				
BDE 17/25	50	8.45	148	70-130	
BDE 28/33	50	8.68	154	70-130	
BDE 35	0				
BDE 37	0				
HBB	50	10.01	107	70-130	
BDE 75	0				
BDE 51	0				
BDE 49	100	10.23	110	70-130	
BDE 71	100	10.31	118	70-130	
BDE 47	100	10.57	119	70-130	
BDE 79	0				
BDE 66	100	10.85	104	70-130	
BDE 77	100	11.33	117	70-130	
BDE 100	100	12.21	121	70-130	
BDE 119/120	100	12.37	151	70-130	
BDE 99	100	12.71	121	70-130	
BDE 116	0				
BDE 83	0				
BDE 118	0				
BDE 85	100	13.60	134	70-130	
BDE 126	100	13.77	123	70-130	
BDE 105	0				
BDE 155	0				
BDE 154	100	14.15	112	70-130	
BDE 153	100	14.88	107	70-130	
BDE 140	100	15.34	114	70-130	
BDE 138/166	100	15.84	145	70-130	
BDE 156	200	16.22	237	70-130	
BDE 128	0				
BDE 184	200	16.65	108	70-130	
BDE 183	200	17.02	137	70-130	
BDE 191	200	17.58	118	70-130	
BDE 181	0				
BDE 190	0				
BDE 197	200	19.50	195	70-130	
BDE 203	200	19.78	94	70-130	
BDE 196	200	19.91	96	70-130	
BDE 208	500	21.24	111	70-130	
BDE 207	500	21.35	123	70-130	
BDE 206	500	21.63	123	70-130	
BDE 209	500	23.28	116	50-200	

Extraction Standards	**pg/uL**		**% Rec**	**Limits**
13C12 BDE 15	50	7.14	81	50-150
13C12 BDE 28	50	8.68	89	50-150
13C6 HBB	50	10.01	85	50-150
13C12 BDE 47	50	10.57	104	50-150
13C12 BDE 77	50	11.33	107	50-150
13C12 BDE 100	50	12.20	81	50-150
13C12 BDE 99	50	12.71	87	50-150
13C12 BDE 126	50	13.77	92	50-150
13C12 BDE 154	50	14.13	80	50-150
13C12 BDE 153	50	14.88	92	50-150
13C12 BDE 183	50	17.01	78	50-150
13C12 BDE 197	100	19.49	95	50-150
13C12 BDE 207	250	21.35	98	50-150
13C12 BDE 209	250	23.28	93	25-200

Cleanup Standard	**pg/uL**			
13C12 BDE 138 Cleanup	50	15.83	95	40-125

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Additional Source Calibration Verification Report

Sample Name	**CVS**	Sampling Date	n/a		
ALS Sample ID	H10-21-RS3-0123	Extraction Date	n/a		Approved:
Analysis Method	EPA 1614	Sample Size	1	n/a	*Ella Gdyczynski*
Analysis Type	CCV	Percent Moisture	n/a		--e-signature--
Sample Matrix	QC	Split Ratio	1		16-Sep-2021

Run Information	**Run 1**
Filename	10-210913B35
Run Date	14-Sep-21 16:22
Final Volume	40 uL
Dilution Factor	1
Analysis Units	%
Instrument - Column	HRMS-10 DB5US1450812

Target Analytes	**pg/uL**	**Ret. Time**	**% Rec**	**Limits**	**Flags**
BDE 10	0				
BDE 7	0				
BDE 8/11	0				
BDE 12/13	0				
BDE 15	0				
BDE 30	0				
BDE 32	0				
BDE 17/25	50	8.45	137	70-130	
BDE 28/33	50	8.68	137	70-130	
BDE 35	0				
BDE 37	0				
HBB	0				
BDE 75	0				
BDE 51	0				
BDE 49	0				
BDE 71	50	10.31	111	70-130	
BDE 47	50	10.57	113	70-130	
BDE 79	0				
BDE 66	50	10.85	112	70-130	
BDE 77	0				
BDE 100	50	12.21	112	70-130	
BDE 119/120	0				
BDE 99	50	12.72	116	70-130	
BDE 116	0				
BDE 83	0				
BDE 118	0				
BDE 85	50	13.61	116	70-130	
BDE 126	0				
BDE 105	0				
BDE 155	0				
BDE 154	50	14.15	105	70-130	
BDE 153	50	14.90	98	70-130	
BDE 140	0				
BDE 138/166	75	15.84	122	70-130	
BDE 156	0				
BDE 128	0				
BDE 184	0				
BDE 183	50	17.02	114	70-130	
BDE 191	0				
BDE 181	0				
BDE 190	0				
BDE 197	0				
BDE 203	0				
BDE 196	0				
BDE 208	0				
BDE 207	0				
BDE 206	0				
BDE 209	200	23.28	92	50-200	

Extraction Standards	**pg/uL**		**% Rec**	**Limits**
13C12 BDE 15	50	7.14	89	50-150
13C12 BDE 28	50	8.68	95	50-150
13C6 HBB	50	10.01	82	50-150
13C12 BDE 47	50	10.57	100	50-150
13C12 BDE 77	50	11.33	96	50-150
13C12 BDE 100	50	12.21	101	50-150
13C12 BDE 99	50	12.71	102	50-150
13C12 BDE 126	50	13.77	88	50-150
13C12 BDE 154	50	14.15	96	50-150
13C12 BDE 153	50	14.88	97	50-150
13C12 BDE 183	50	17.01	106	50-150
13C12 BDE 197	100	19.50	90	50-150
13C12 BDE 207	250	21.35	96	50-150
13C12 BDE 209	250	23.28	105	25-200

Cleanup Standard	**pg/uL**			
13C12 BDE 138 Cleanup	50	15.84	95	40-125

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SVOC DATA PACKAGE

SECTION 5: QC SAMPLE DATA

Including:

- Laboratory Method Blank Analysis Reports
- Laboratory Control Sample Analysis Reports
- Matrix Spike Analysis Reports
- Other QC Sample Analysis Reports (where applicable)

ALS Life Sciences

Laboratory Method Blank Analysis Report

Sample Name	**Method Blank**	Sampling Date	n/a		
ALS Sample ID	WG3603574-1	Extraction Date	3-Sep-21		Approved:
Analysis Method	EPA 1614	Sample Size	4.20	g	*Ella Gdyczynski*
Analysis Type	Blank	Percent Moisture	n/a		--e-signature--
Sample Matrix	QC	Split Ratio	2		16-Sep-2021

Run Information	**Run 1**
Filename	10-210913B15
Run Date	14-Sep-21 01:20
Final Volume	40 uL
Dilution Factor	1
Analysis Units	pg/g
Instrument - Column	HRMS-10 DB5US1450812

Target Analytes	**Ret. Time**	**Conc. pg/g**	**EDL pg/g**	**Flags**	**EMPC pg/g**	**LQL**
BDE 10	NotFnd	<0.18	0.18	U		19
BDE 7	NotFnd	<0.18	0.18	U		19
BDE 8/11	NotFnd	<0.12	0.12	U		38
BDE 12/13	NotFnd	<0.11	0.11	U		38
BDE 15	NotFnd	<0.090	0.090	U		19
BDE 30	NotFnd	<0.70	0.70	U		19
BDE 32	NotFnd	<0.51	0.51	U		19
BDE 17/25	NotFnd	<0.67	0.67	U		38
BDE 28/33	NotFnd	<0.64	0.64	U		38
BDE 35	NotFnd	<0.46	0.46	U		19
BDE 37	NotFnd	<0.46	0.46	U		19
HBB	10.02	1.04	0.31	M,J		19
BDE 75	NotFnd	<0.43	0.43	U		19
BDE 51	NotFnd	<0.36	0.36	U		19
BDE 49	NotFnd	<0.57	0.57	U		19
BDE 71	NotFnd	<0.55	0.55	U		19
BDE 47	10.57	2.11	0.41	M,J		19
BDE 79	NotFnd	<0.36	0.36	U		19
BDE 66	NotFnd	<0.62	0.62	U		19
BDE 77	NotFnd	<0.40	0.40	U		19
BDE 100	NotFnd	<0.43	0.43	U		29
BDE 119/120	NotFnd	<0.91	0.91	U		29
BDE 99	NotFnd	<0.63	0.63	U		29
BDE 116	NotFnd	<1.4	1.4	U		29
BDE 83	NotFnd	<1.2	1.2	U		29
BDE 118	NotFnd	<1.1	1.1	U		29
BDE 85	NotFnd	<0.94	0.94	U		29
BDE 126	NotFnd	<0.62	0.62	U		29
BDE 105	NotFnd	<1.1	1.1	U		29
BDE 155	NotFnd	<0.78	0.78	U		38
BDE 154	NotFnd	<0.85	0.85	U		38
BDE 153	NotFnd	<2.9	2.9	U		38
BDE 140	NotFnd	<1.8	1.8	U		38
BDE 138/166	NotFnd	<3.3	3.3	U		76
BDE 156	NotFnd	<5.1	5.1	U		38
BDE 128	NotFnd	<4.5	4.5	U		38
BDE 184	NotFnd	<0.97	0.97	U		48
BDE 183	NotFnd	<1.4	1.4	U		48
BDE 191	NotFnd	<2.3	2.3	U		48
BDE 181	NotFnd	<2.3	2.3	U		48
BDE 190	NotFnd	<3.4	3.4	U		48
BDE 197	NotFnd	<1.5	1.5	U		48
BDE 203	NotFnd	<2.0	2.0	U		48
BDE 196	NotFnd	<1.8	1.8	U		48
BDE 208	21.25	<3.0	1.1	M,J,R	3.0	95
BDE 207	NotFnd	<0.97	0.97	U		95
BDE 206	NotFnd	<1.3	1.3	U		95
BDE 209	23.28	9.71	5.7	M,J		95

Extraction Standards	**pg**		**% Rec**	**Limits**
13C12 BDE 15	2000	7.14	37	25-150
13C12 BDE 28	2000	8.68	39	25-150
13C6 HBB	2000	10.01	35	25-150
13C12 BDE 47	2000	10.57	36	25-150
13C12 BDE 77	2000	11.33	43	25-150
13C12 BDE 100	2000	12.20	38	25-150
13C12 BDE 99	2000	12.71	43	25-150
13C12 BDE 126	2000	13.76	47	25-150
13C12 BDE 154	2000	14.15	35	25-150
13C12 BDE 153	2000	14.88	25	25-150
13C12 BDE 183	2000	17.01	30	25-150
13C12 BDE 197	4000	19.49	33	25-150
13C12 BDE 207	10000	21.35	36	25-150
13C12 BDE 209	10000	23.27	33	20-200

Cleanup Standard	**pg**			
13C12 BDE 138 Cleanup	2000	15.83	51	30-135

EDL	Indicates the Estimated Detection Limit, based on the measured background noise for this target in this sample.
LQL	Lower Quantification Limit, based on the lowest calibration level corrected for sample size, splits and dilutions.
M	Indicates that a peak has been manually integrated.
U	Indicates that this compound was not detected above the EDL.
J	Indicates that a target analyte was detected below the calibrated range.
R	Indicates that the ion abundance ratio for this compound did not meet the acceptance criterion.
EMPC	Estimated Maximum Possible Concentration – elevated detection limit due to interference or positive id criterion failure

ALS Life Sciences

Laboratory Control Sample Analysis Report

Sample Name	**Laboratory Control Sample**	Sampling Date	n/a		
ALS Sample ID	WG3603574-2	Extraction Date	3-Sep-21		Approved:
Analysis Method	EPA 1614	Sample Size	1	n/a	*Ella Gdyczynski*
Analysis Type	LCS	Percent Moisture	n/a		--e-signature--
Sample Matrix	QC	Split Ratio	2		16-Sep-2021

Run Information	**Run 1**
Filename	10-210913B10
Run Date	13-Sep-21 22:26
Final Volume	40 uL
Dilution Factor	1
Analysis Units	%
Instrument - Column	HRMS-10 DB5US1450812

Target Analytes	**pg**	**Ret. Time**	**% Rec**	**Limits**	**Flags**
BDE 10	800	6.34	49	5-130	
BDE 7	800	6.71	73	5-130	
BDE 8/11	1600	6.89	93	50-150	
BDE 12/13	1600	6.98	138	5-130	R
BDE 15	800	7.15	99	50-150	
BDE 30	800	7.84	74	5-130	
BDE 32	800	8.28	99	50-150	
BDE 17/25	1600	8.45	99	50-150	
BDE 28/33	1600	8.68	100	50-150	
BDE 35	800	8.83	117	50-150	
BDE 37	800	9.02	117	50-150	
HBB	800	10.01	99	50-150	
BDE 75	800	10.07	89	50-150	
BDE 51	800	10.13	92	50-150	
BDE 49	800	10.23	88	50-150	
BDE 71	800	10.31	88	50-150	
BDE 47	800	10.57	100	50-150	
BDE 79	800	10.73	117	50-150	
BDE 66	800	10.85	104	50-150	
BDE 77	800	11.33	99	50-150	
BDE 100	1200	12.21	98	50-150	
BDE 119/120	2400	12.37	99	50-150	
BDE 99	1200	12.71	98	50-150	
BDE 116	1200	12.87	76	40-140	
BDE 83	1200	12.99	93	50-150	
BDE 118	1200	13.12	105	50-150	
BDE 85	1200	13.60	110	50-150	
BDE 126	1200	13.77	99	50-150	
BDE 105	1200	13.92	105	50-150	
BDE 155	1600	13.76	112	50-150	
BDE 154	1600	14.15	101	50-150	
BDE 153	1600	14.88	95	50-150	
BDE 140	1600	15.34	114	50-150	
BDE 138/166	3200	15.84	160	50-150	
BDE 156	1600	16.22	186	50-150	
BDE 128	1600	16.82	186	50-150	
BDE 184	2000	16.64	98	50-150	
BDE 183	2000	17.01	95	50-150	
BDE 191	2000	17.57	127	50-150	
BDE 181	2000	18.12	114	50-150	
BDE 190	2000	18.27	108	50-150	
BDE 197	2000	19.49	95	50-150	
BDE 203	2000	19.77	109	50-150	
BDE 196	2000	19.91	107	50-150	
BDE 208	4000	21.23	119	50-150	
BDE 207	4000	21.35	96	50-150	
BDE 206	4000	21.61	115	50-150	
BDE 209	4000	23.28	95	40-200	

Extraction Standards	**pg**		**% Rec**	**Limits**
13C12 BDE 15	2000	7.14	38	25-150
13C12 BDE 28	2000	8.67	41	30-140
13C6 HBB	2000	10.00	38	30-140
13C12 BDE 47	2000	10.56	40	30-140
13C12 BDE 77	2000	11.31	50	30-140
13C12 BDE 100	2000	12.20	45	30-140
13C12 BDE 99	2000	12.69	51	30-140
13C12 BDE 126	2000	13.76	59	30-140
13C12 BDE 154	2000	14.13	42	30-140
13C12 BDE 153	2000	14.87	28	30-140
13C12 BDE 183	2000	17.01	34	30-140
13C12 BDE 197	4000	19.49	38	30-140
13C12 BDE 207	10000	21.34	44	30-140
13C12 BDE 209	10000	23.27	39	20-200

Cleanup Standard	**pg**			
13C12 BDE 138 Cleanup	2000	15.83	70	40-125

R Indicates that the ion abundance ratio for this compound did not meet the acceptance criterion.

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SECTION 6: INTERNAL RECORDS

Including:

- Prep Logs
- Independent calculation checks
- Others as listed below:

Extraction Workup Sheet

(3)

Batch ID:	WG3603574	Analysis:	Sediment - DX/PCB/PBDE **PBDE protocol**
Analyst:	Amilh Bhousal	Date:	03-Sep-2021

SUBSAMPLING

Sample I.D.	Client I.D.	Wet Sub-sample (g)
WG3603574-1	Method Blank	20.01
WG3603574-2	Laboratory Control Sample	20.02
WG3603574-3	Extraction and Injection STD.	—
L2625428-2	INCIN. FEED	20.45
	If copper treatment needed - only copper treat DX portion	

BATCH TRACKING

	Date/Time/Initials
Bottle volume marked:	03-Sep-2021 11:09 AM
Client Labels Checked:	AB
Samples Spiked	AR
Samples Filtered:	—
Liquid/Liquid extraction:	—
Soxhlet start time:	03-Sept-21 3:00 PM AR
Soxhlet reflux properly:	MC
Soxhlet end time:	4-Sept-2021 7:00 AM MC
Rotovap Reduction:	7-Sept-21 ACB
Rotovap Temp Verified:	7-Sept-21 ACB
Acid Column:	7-Sept-21 ACB
Split:	9-Sept-21 ACB
Alumina Column:	9-Sept-21 ACB
Carbon Column:	5-Oct-21 ACB
N-Evap Temp Verified:	9-Sept-21 ACB PCB
Micro/Robo Vial:	9-Sept-21 ACB PCB 5-Oct-21 ACB DX

Batch ID:	WG3603574

DX Extraction Standard:

Sample I.D.	Volume (ul)	(Checkmark) Spiked
WG3603574-1	40	✓
WG3603574-2	40	✓
WG3603574-3	40	✓
L2625428-2	40	✓
	40	
	40	
	40	
	40	
	40	
	40	
	40	
	40	
	40	
	40	
	40	
	40	

Syringe ID: 318

Standard: 1613B-ES#1- 093D

Spike Date: 03-Sept-2021

Spike Witnessing

Chemist: AR (Chemist's Initials)

Witness: AGB (Witness's Initials)

Correct Syringe Obtained: AGB (Witness's Initials)

Correct Standard Obtained: AGB (Witness's Initials)

Correct Technique Followed: AGB (Witness's Initials)

PCB Extraction Standard:

Sample I.D.	Volume (ul)	(Checkmark) Spiked
WG3603574-1	40	✓
WG3603574-2	40	✓
WG3603574-3	40	✓
L2625428-2	40	✓
	40	
	40	
	40	
	40	
	40	
	40	
	40	
	40	
	40	
	40	
	40	
	40	

Syringe ID: 165

Standard: 1668A-ES#2- 075m

Spike Date: 03-Sept-2021

Spike Witnessing

Chemist: AR (Chemist's Initials)

Witness: AGB (Witness's Initials)

Correct Syringe Obtained: AGB (Witness's Initials)

Correct Standard Obtained: AGB (Witness's Initials)

Correct Technique Followed: AGB (Witness's Initials)

Batch ID:	WG3603574

PBDE Extraction Standard:

Sample I.D.	Volume (ul)	Spiked (Checkmark)
WG3603574-1	40	✓
WG3603574-2	40	✓
WG3603574-3	40	✓
L2625428-2	40	✓
	40	
	40	
	40	
	40	
	40	
	40	
	40	
	40	
	40	
	40	
	40	

Syringe ID: 169

Standard: PBDEX-ES#1- 008E

Spike Date: 03-Sept-2021

Spike Witnessing

Chemist's Initials

Chemist: AR

Witness's Initials

Witness: AGB

Witness's Initials

Correct Syringe Obtained: AGB

Witness's Initials

Correct Standard Obtained: AGB

Witness's Initials

Correct Technique Followed: AGB

DX Native Standard:

Sample I.D.	Volume (ul)	Spiked (Checkmark)
WG3603574-2	40	✓
WG3603574-3	40	✓

Syringe ID: 322

Standard: 1613B-NS#3-035B

Date & Initials: 03-Sept-2021 AGB

PCB Native Standard:

Sample I.D.	Volume (ul)	Spiked (Checkmark)
WG3603574-2	40	✓
WG3603574-3	40	✓

Syringe ID: 401

Standard: 1668A-NS#1- 043F

Date & Initials: 13-Sept-2021 AGB

PBDE Native Standard:

Sample I.D.	Volume (ul)	Spiked (Checkmark)
WG3603574-2	40	✓
WG3603574-3	40	✓

Syringe ID: 324

Standard: PBDEX-NS#1- 005B

Date & Initials: 03-Sept-2021 AGB

Batch ID:	WG3603574

DX Cleanup Standard:

Sample I.D.	Volume (ul)	Spiked (Checkmark)
WG3603574-1	20	✓
WG3603574-2	20	✓
WG3603574-3	20	N/A
L2625428-2	20	✓
	20	
	20	
	20	
	20	
	20	
	20	
	20	
	20	
	20	
	20	
	20	

Syringe ID: 399

Standard: 1613B-CL#2- 080B

Date & Initials: 7-Sept-21 ACB

Correct Syringe Obtained: (Chemist's Initials) ACB

Correct Standard Obtained: (Chemist's Initials) ACB

Correct Technique Followed: (Chemist's Initials) ACB

PCB Cleanup Standard:

Sample I.D.	Volume (ul)	Spiked (Checkmark)
WG3603574-1	20	✓
WG3603574-2	20	✓
WG3603574-3	20	N/A
L2625428-2	20	✓
	20	
	20	
	20	
	20	
	20	
	20	
	20	
	20	
	20	
	20	

Syringe ID: 378

Standard: 1668A-CL#2- 041I

Date & Initials: 7-Sept-21 ACB

Correct Syringe Obtained: (Chemist's Initials) ACB

Correct Standard Obtained: (Chemist's Initials) ACB

Correct Technique Followed: (Chemist's Initials) ACB

Batch ID:	WG3603574

PBDE Cleanup Standard:

Sample I.D.	Volume (ul)	(Checkmark) Spiked
WG3603574-1	20	✓
WG3603574-2	20	✓
WG3603574-3	20	N/A
L2625428-2	20	✓
	20	
	20	
	20	
	20	
	20	
	20	
	20	
	20	
	20	
	20	

Syringe ID: 386

Standard: PBDEX-CL#1- 005F

Date & Initials: 7-Sept-21 ACB

Correct Syringe Obtained: Chemist's Initials ACB

Correct Standard Obtained: Chemist's Initials ACB

Correct Technique Followed: Chemist's Initials ACB

PCB Injection Standard:

Sample I.D.	Volume (ul)	(Checkmark) Spiked
WG3603574-1	5	✓
WG3603574-2	5	✓
WG3603574-3	5	✓
L2625428-2	5	✓
	5	
	5	
	5	
	5	
	5	
	5	
	5	
	5	
	5	
	5	
	5	
	5	
	5	
	5	
	5	
	5	
	5	

Syringe ID: 407

Standard: 1668A-IS#2- 016E

Date & Initials: 9-Sept-21 ACB

Correct Syringe Obtained: Chemist's Initials ACB

Correct Standard Obtained: Chemist's Initials ACB

Correct Technique Followed: Chemist's Initials ACB

Batch ID:	WG3603574

PBDE Injection Standard: (Checkmark)

Sample I.D.	Volume (ul)	Spiked
WG3603574-1	5	✓
WG3603574-2	5	✓
WG3603574-3	5	✓
L2625428-2	5	✓
	5	
	5	
	5	
	5	
	5	
	5	
	5	
	5	
	5	
	5	
	5	
	5	
	5	
	5	
	5	
	5	

Syringe ID: 341

Standard: PBDEX-IS#1-

Date & Initials: 9-Sept-21 ACB

Chemist's Initials

Correct Syringe Obtained: ACB

Chemist's Initials

Correct Standard Obtained: ACB

Chemist's Initials

Correct Technique Followed: ACB

DX Injection Standard: (Checkmark)

Sample I.D.	Volume (ul)	Spiked
WG3603574-1	10	✓
WG3603574-2	10	✓
WG3603574-3	10	-
L2625428-2	10	✓
	10	
	10	
	10	
	10	
	10	
	10	
	10	
	10	
	10	
	10	
	10	
	10	
	10	
	10	
	10	
	10	
	10	

Syringe ID: 368

Standard: 1613B-IS#1- 095I

Date & Initials: 5-Oct-21 ACB

Chemist's Initials

Correct Syringe Obtained: ACB

Chemist's Initials

Correct Standard Obtained: ACB

Chemist's Initials

Correct Technique Followed: ACB

Could not find W3
5-Oct-21 ACB

Batch ID:	WG3603574

Procedure:

This batchsheet is a guideline only. Please see test procedure for complete set of instructions.
Extraction:
- Subsample size =20g. Dry Weight 10g.
- Mix with sand to create a free-flowing mixture.
- Spike Extraction and Native Standards.
- Dean-Stark Soxhlet extract in Toluene.
- Roto-vap down to ~2ml
- Transfer to a c-tube with 3x2ml Hexane rinses.
- Reduce to 1mL and spike cleanup standards.
- Perform Acid Silica column
- Elute to 50ml with Hexane.

Reduce to 2mL and Split **1/2 DX 1/2 PCB/PBDE**

-Perform Copper treatment only on DX portion!
PCB/PBDE
- Reduce to 50uL, bulk up with 1mL of Hexane
- Perform Alumina Column:
• Pre-elute the Alumina Column with 7ml Hexane
• Place F1 c-tube under the column, then load the sample with 3x 1ml Hexane Rinses
• F1 1mL of Hexane
• Place F2 c-tube under the column. Ensure ctube is accurately marked for split
• F2 (DX/PCB/PBDE) **25ml** 1:1 DCM:Hexane
- Blow down to ~500ul
PCB/PBDE:
- Vortex **very** well.
- Transfer every last drop to a micro-vial (no rinses).
- Blow down **VERY GENTLY** to the mark. (Micro-vial should contain **30ul Toluene**, and the level should be marked with a **fine tipped black marker**.)
- Spike PCB and PBDE Injection Standards. Cap and Vortex **FV = 40ul**

DX:

- Carbon Column: - 4cm of well-packed chroma-carb.
  - Pre-elute Carbon with 5ml Hexane
  - Transfer with 3x1ml Hexane
  - F1 = **10ml** 1:1 DCM:Hexane (Archive)
  - After dripping has stopped Invert Column.
  - F2 = 14ml Toluene (DX)

- After the column has stopped dripping reduce the **F2** portion down to ~1/2ml.

- Vortex well, then transfer to a micro-vial without rinses.
- Blow the micro-vial down to just-dry.
- Spike with Injection Standard, Cap the micro-vial, and Vortex. **FV=10ul**

Approval of Deviation from Standard Method

(Batch Writer): _____

☐ Procedure does deviate from Standard Method. **Approved (Supervisor/Manager):** _____

Comments:

- Label and save all columns.

Reagent Lot Numbers:

Reagent	Lot#	Comment
Acetone	166330	
Hexane	106396	
DCM	106399	
Toluene	106301	
Nonane	ORG-WAKONON- 61	
1:1 DCM:HEX	ORG-DH2- 713	
Sodium Sulphate	ORG-SSU- 2706, 2722	
Acid Silica	ORG-ASI- 10264, 10267	
Neutral Silica	ORG-NSI- 2654, 2655	
Alumina	ORG-ALU- 515	
Chromacarb	ORG-CC- 315	

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Sample Calculation Report

Approved: *Ella Gdyczynski* --e-signature-- 16-Sep-2021

CS3 RRF Check

$$RRF = \frac{\text{Response of BDE-99}}{\text{Response of 13C12-BDE-99}} \times \frac{\text{Concentration of 13C12-BDE-99}}{\text{Concentration of BDE-99}}$$

| | | |

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SECTION 7: SHIPPING/RECEIVING DOCUMENTS

Including:

- Airbills
- Chain-of-Custody Records
- Sample Log-in Sheet(s) - where applicable
- Others as listed below:

ALS Environmental Chain of Custody

1317 South 13th Avenue • Kelso, WA 98626 • 1-360-577-7222 • FAX 1-360-636-1068

ALS Contact: Sydney A. Wolf

Project Number: K2109142
Project Manager: Sydney A. Wolf
QAP: LAB QAP

Lab Code	Sample ID	# of Cont.	Matrix	Sample Date	Sample Time	Lab ID	Cl Biphen Cong 1668C	Dioxins Furans 1613B	Misc Out 1 None	Misc Out 2 None
K2109142-001	Final Effluent	3	Water	8/4/21		Burlington ALS	X	X		X
K2109142-002	Incin. Feed	1	Soil	8/4/21		Burlington ALS	X	X	X	

L2625428-COFC

Test Comments

Dioxins Furans - 1613B	K2109142-001,2	Burlington
Cl Biphen Cong - 1668C	K2109142-002	Burlington
Misc Out 1 - None	K2109142-002	PBDEs Burlington
Misc Out 2 - None	K2109142-001	PBDEs Burlington

Special Instructions/Comments

Please provide the electronic (PDF and EDD) report to the following e-mail address: ALKLS.Data@alsglobal.com.

H - Test is On Hold P - Test is Authorized for Prep Only

Turnaround Requirements

____ **RUSH** (Surcharges Apply)

PLEASE CIRCLE WORK DAYS

1 2 3 4 5

X **STANDARD**

Requested FAX Date: _____

Requested Report Date: 09/08/21

Report Requirements

____ I. Results Only

____ II. Results + QC Summaries

____ III. Results + QC and Calibration Summaries

X IV. Data Validation Report with Raw Data

PQL/MDL/J Y

EDD N

Invoice Information

PO# 51K2109142

Bill to

Relinquished By: ALS Canada Ltd. 8/9/21 Received By: L2625428-COFC PBDE DPKG 2447118 Airbill Number:

8/9/21 15:40 3.8°C

Sample Receiving Log

Date/Time Received	Client ID	Number/Description of Containers	Temp. on Receipt*	Condition of Samples, Courier & Tracking Information	Receiver's Initials	Date/Time Login Completed	Submission ID	Sample ID Range
10-Aug-24 15:40	ALS KELSO	44 x jars of sediment 28 x 1L amber bottles	3.8°C	Good FedEx 9340 2499 2668	NJ	11-Aug-2024 16:10	L2625333	-1-17
							L2625409	-1-18
							L2625400	-1-13
							L2625392	-1-11
							L2625417	-1-5
							L2625428	-1-2

[redacted]

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SVOC DATA PACKAGE

Client Project Information

Project ID: K2109142
Project Description:
Contact: Sydney Wolf

ALSE Project Information

Project ID: ALS880
Contact: Claire Kocharakkal
Submission ID(s): L2625428

Final Package Review by: _____

Date Reviewed: 18-Nov-21

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SVOC DATA PACKAGE

SECTION 1: PROJECT NARRATIVE

ALSE Project Information

Project ID: ALS880
Contact: Claire Kocharakkal
Submission ID(s): L2625428

Client Project Information

Project ID: K2109142
Project Description:
Contact: Sydney Wolf

Analytical Method: PCB Congeners by EPA 1668C

ALS Sample ID	Client Sample Descriptions	Matrix	Date Sampled	Date Received	Date Extracted	Date Analyzed
L2625428-1	FINAL EFFLUENT	Water	04-Aug-21	10-Aug-21	07-Sep-21	03-Nov-21
WG3603564-1	Method Blank	QC	n/a	n/a	07-Sep-21	03-Nov-21
WG3603564-2	Laboratory Control Sample	QC	n/a	n/a	07-Sep-21	02-Nov-21

Comments and Notes:
a) Sample Integrity:

The samples were received in good condition at 3.8 degrees C.

b) Instrumental Analysis:

No criteria failures or exceedences.

I certify that this data package is in compliance with the terms and condition of the contract , both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this data package (hardcopy and/or electronic version) has been authorized by the Laboratory Manager or his designee, as verified by the following signature.

Reviewer and Title

18-Nov-21
Date

1435 Norjohn Court, Unit 1, Burlington, ON, Canada L7L 0E6

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SECTION 2: DATA SUMMARY REPORT

1435 Norjohn Court, Unit 1, Burlington, ON, Canada L7L 0E6
Phone: 905-331-3111, FAX: 905-331-4567

Certificate of Analysis

ALS Project Contact:	Claire Kocharakkal	**Client Name:**	ALS Environmental - Kelso
ALS Project ID:	ALS880	**Client Address:**	1317 South 13th Avenue
ALS WO#:	L2625428		Kelso, WA 98626
Date of Report	19-Nov-21		USA
Date of Sample Receipt	10-Aug-21	**Client Contact:**	Sydney Wolf
		Client Project ID:	K2109142

COMMENTS: **PCB Congeners by EPA 1668C**

PCB Congener Group Totals and Total PCB are a sum of detected values, including EMPC values, consistent with USEPA CLP SOW CBC1.2

Certified by:

Steve Kennedy
Technical Supervisor

Results in this certificate relate only to the samples as submitted to the laboratory.
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Sample Analysis Summary Report

Sample Name	**FINAL EFFLUENT**
ALS Sample ID	L2625428-1
Sample Size	1.10
Sample size units	L
Percent Moisture	n/a
Sample Matrix	Water
Sampling Date	4-Aug-21
Extraction Date	7-Sep-21

Target Analytes	**pg/L**
PCB-001	<5.7
PCB-002	4.77
PCB-003	<7.6
PCB-004	<7.2
PCB-010	<3.3
PCB-009	<3.4
PCB-007	<3.3
PCB-006	<3.2
PCB-005	<4.0
PCB-008	<5.5
PCB-014	<6.3
PCB-011	<76
PCB-012/013	<6.7
PCB-015	<7.9
PCB-019	3.38
PCB-018/030	10.8
PCB-017	<5.6
PCB-027	<1.3
PCB-024	<1.4
PCB-016	<4.6
PCB-032	3.11
PCB-034	<1.5
PCB-023	<1.4
PCB-026/029	4.63
PCB-025	<2.0
PCB-031	23.6
PCB-020/028	28.2
PCB-021/033	<4.7
PCB-022	11.0
PCB-036	<1.3
PCB-039	<1.4
PCB-038	<1.5
PCB-035	3.31
PCB-037	7.69
PCB-054	<0.81
PCB-050/053	2.70
PCB-045/051	5.88
PCB-046	1.22
PCB-052	49.3
PCB-073	<0.69
PCB-043	2.37
PCB-049/069	16.3
PCB-048	4.93
PCB-044/047/065	40.1
PCB-059/062/075	2.18
PCB-042	<5.0
PCB-040/041/071	13.4
PCB-064	12.3
PCB-072	<0.81
PCB-068	2.89
PCB-057	<0.86
PCB-058	<0.85
PCB-067	<0.74
PCB-063	<0.98
PCB-061/070/074/076	70.7
PCB-066	22.3
PCB-055	<0.85
PCB-056	<11
PCB-060	6.82
PCB-080	<0.73
PCB-079	<0.71
PCB-078	<0.82
PCB-081	<0.82
PCB-077	2.03
PCB-104	<0.75
PCB-096	<0.64
PCB-103	<0.94
PCB-094	<1.1
PCB-095	47.4
PCB-093/098/100/102	<1.1

ALS Life Sciences

Sample Analysis Summary Report

Sample Name	**FINAL EFFLUENT**
ALS Sample ID	L2625428-1
Sample Size	1.10
Sample size units	L
Percent Moisture	n/a
Sample Matrix	Water
Sampling Date	4-Aug-21
Extraction Date	7-Sep-21

Target Analytes	**pg/L**
PCB-088/091	8.23
PCB-084	15.3
PCB-089	<1.2
PCB-121	<0.77
PCB-092	12.7
PCB-090/101/113	71.7
PCB-083/099	37.1
PCB-112	<0.78
PCB-086/087/097/109/119/125	48.9
PCB-085/110/115/116/117	94.8
PCB-082	<7.4
PCB-111	<0.75
PCB-120	<0.70
PCB-108/124	2.42
PCB-107	3.80
PCB-123	<1.1
PCB-106	<0.97
PCB-118	69.0
PCB-122	<1.1
PCB-114	<2.0
PCB-105	27.1
PCB-127	<0.94
PCB-126	<1.0
PCB-155	5.02
PCB-152	<0.35
PCB-150	<0.37
PCB-136	5.83
PCB-145	<0.38
PCB-148	<0.49
PCB-135/151	15.7
PCB-154	1.05
PCB-144	<2.3
PCB-147/149	42.6
PCB-134/143	2.43
PCB-139/140	1.96
PCB-131	<1.0
PCB-142	<0.75
PCB-132	20.1
PCB-133	1.21
PCB-165	<0.52
PCB-146	7.99
PCB-161	<0.48
PCB-153/168	50.2
PCB-141	11.2
PCB-130	<3.3
PCB-137/164	6.55
PCB-129/138/163	72.3
PCB-160	<0.41
PCB-158	6.83
PCB-128/166	8.49
PCB-159	<0.47
PCB-162	<0.50
PCB-167	<2.4
PCB-156/157	8.66
PCB-169	<0.51
PCB-188	<0.30
PCB-179	<4.1
PCB-184	8.17
PCB-176	<1.0
PCB-186	<0.29
PCB-178	3.29
PCB-175	<0.38
PCB-187	14.0
PCB-182	<0.39
PCB-183	6.47
PCB-185	0.703
PCB-174	9.34
PCB-177	5.32
PCB-181	<0.40
PCB-171/173	<2.5
PCB-172	1.39

ALS Life Sciences

Sample Analysis Summary Report

Sample Name	FINAL EFFLUENT
ALS Sample ID	L2625428-1
Sample Size	1.10
Sample size units	L
Percent Moisture	n/a
Sample Matrix	Water
Sampling Date	4-Aug-21
Extraction Date	7-Sep-21

Target Analytes	pg/L
PCB-192	<0.32
PCB-180/193	25.6
PCB-191	<0.29
PCB-170	9.63
PCB-190	1.90
PCB-189	0.468
PCB-202	<2.0
PCB-201	<1.0
PCB-204	<0.35
PCB-197	<0.63
PCB-200	<0.50
PCB-198/199	7.95
PCB-196	2.67
PCB-203	<3.5
PCB-195	2.01
PCB-194	6.36
PCB-205	<0.38
PCB-208	<1.5
PCB-207	<1.0
PCB-206	<4.1
PCB-209	2.67
Extraction Standards	**% Rec**
13C12-PCB-001	16
13C12-PCB-003	21
13C12-PCB-004	20
13C12-PCB-015	43
13C12-PCB-019	24
13C12-PCB-037	63
13C12-PCB-054	27
13C12-PCB-081	69
13C12-PCB-077	71
13C12-PCB-104	37
13C12-PCB-123	69
13C12-PCB-118	68
13C12-PCB-114	73
13C12-PCB-105	75
13C12-PCB-126	83
13C12-PCB-155	49
13C12-PCB-167	72
13C12-PCB-156/157	71
13C12-PCB-169	86
13C12-PCB-188	56
13C12-PCB-189	74
13C12-PCB-202	57
13C12-PCB-205	65
13C12-PCB-208	68
13C12-PCB-206	67
13C12-PCB-209	54
Cleanup Standards	
13C12-PCB-028	26
13C12-PCB-111	39
13C12-PCB-178	42

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Sample Analysis Summary Report

Sample Name	FINAL EFFLUENT
ALS Sample ID	L2625428-1
Sample Size	1.10
Sample size units	L
Percent Moisture	n/a
Sample Matrix	Water
Sampling Date	4-Aug-21
Extraction Date	7-Sep-21

Target Analytes	pg/L
Homologue Group Totals	
Total MonoCB	18.1
Total DiCB	81.5
Total TriCB	113
Total TetraCB	272
Total PentaCB	448
Total HexaCB	277
Total HeptaCB	93.9
Total OctaCB	26.6
Total NonaCB	5.60
DecaCB	2.67
Total PCB	1340
Toxic Equivalency - (WHO 2005)	
Lower Bound PCB TEQ	0.00336
Mid Point PCB TEQ	0.0613
Upper Bound PCB TEQ	0.119

ALS Life Sciences

Quality Control Summary Report

Sample Name	**Method Blank**
ALS Sample ID	WG3603564-1
Sample Size	1.00
Sample size units	L
Percent Moisture	n/a
Sample Matrix	QC
Sampling Date	n/a
Extraction Date	7-Sep-21

Target Analytes	**pg/L**
PCB-001	<9.6
PCB-002	<8.3
PCB-003	<11
PCB-004	<32
PCB-010	<19
PCB-009	<19
PCB-007	<18
PCB-006	<18
PCB-005	<23
PCB-008	<16
PCB-014	<23
PCB-011	<24
PCB-012/013	<25
PCB-015	<34
PCB-019	<12
PCB-018/030	<4.4
PCB-017	<5.7
PCB-027	<3.8
PCB-024	<4.0
PCB-016	<6.0
PCB-032	<3.5
PCB-034	<5.9
PCB-023	<5.6
PCB-026/029	<5.7
PCB-025	<4.8
PCB-031	<5.2
PCB-020/028	<5.9
PCB-021/033	<5.3
PCB-022	<5.5
PCB-036	<5.2
PCB-039	<5.4
PCB-038	<5.8
PCB-035	<5.8
PCB-037	<6.7
PCB-054	<3.7
PCB-050/053	<2.1
PCB-045/051	<2.2
PCB-046	<2.6
PCB-052	<2.5
PCB-073	<1.7
PCB-043	<2.4
PCB-049/069	<1.9
PCB-048	<2.2
PCB-044/047/065	<3.4
PCB-059/062/075	<1.6
PCB-042	<2.3
PCB-040/041/071	<2.2
PCB-064	<1.5
PCB-072	<2.0
PCB-068	<1.9
PCB-057	<2.2
PCB-058	<2.1
PCB-067	<1.8
PCB-063	<2.0
PCB-061/070/074/076	<5.4
PCB-066	2.11
PCB-055	<2.1
PCB-056	<2.2
PCB-060	<2.1
PCB-080	<1.8
PCB-079	<1.8
PCB-078	<2.1
PCB-081	<1.9
PCB-077	<2.0
PCB-104	<2.9
PCB-096	<2.1
PCB-103	<2.7
PCB-094	<3.2
PCB-095	<2.9
PCB-093/098/100/102	<3.0

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Quality Control Summary Report

Sample Name	Method Blank
ALS Sample ID	WG3603564-1
Sample Size	1.00
Sample size units	L
Percent Moisture	n/a
Sample Matrix	QC
Sampling Date	n/a
Extraction Date	7-Sep-21

Target Analytes	pg/L
PCB-088/091	<3.0
PCB-084	<3.5
PCB-089	<3.3
PCB-121	<2.2
PCB-092	<3.0
PCB-090/101/113	<2.5
PCB-083/099	<3.1
PCB-112	<2.2
PCB-086/087/097/109/119/125	<2.6
PCB-085/110/115/116/117	<3.8
PCB-082	<3.6
PCB-111	<2.1
PCB-120	<2.0
PCB-108/124	<2.3
PCB-107	<2.3
PCB-123	<2.4
PCB-106	<2.2
PCB-118	3.73
PCB-122	<2.5
PCB-114	<2.2
PCB-105	<2.1
PCB-127	<2.2
PCB-126	<2.1
PCB-155	<1.1
PCB-152	<0.82
PCB-150	<0.87
PCB-136	<0.86
PCB-145	<0.89
PCB-148	<1.2
PCB-135/151	<1.2
PCB-154	<1.0
PCB-144	<1.2
PCB-147/149	2.03
PCB-134/143	<1.4
PCB-139/140	<1.3
PCB-131	<1.5
PCB-142	<1.4
PCB-132	<1.4
PCB-133	<1.3
PCB-165	<0.96
PCB-146	<1.2
PCB-161	<0.88
PCB-153/168	<1.1
PCB-141	<1.3
PCB-130	<1.4
PCB-137/164	<1.1
PCB-129/138/163	<3.2
PCB-160	<0.76
PCB-158	<0.82
PCB-128/166	<1.0
PCB-159	<0.86
PCB-162	<0.93
PCB-167	<0.87
PCB-156/157	<1.2
PCB-169	<0.87
PCB-188	<1.2
PCB-179	<0.97
PCB-184	<0.95
PCB-176	<1.0
PCB-186	<1.0
PCB-178	<1.4
PCB-175	<1.4
PCB-187	<1.2
PCB-182	<1.4
PCB-183	<1.3
PCB-185	<1.3
PCB-174	<1.5
PCB-177	<1.4
PCB-181	<1.4
PCB-171/173	<1.5
PCB-172	<1.4

ALS Life Sciences

Quality Control Summary Report

Sample Name	Method Blank
ALS Sample ID	WG3603564-1
Sample Size	1.00
Sample size units	L
Percent Moisture	n/a
Sample Matrix	QC
Sampling Date	n/a
Extraction Date	7-Sep-21

Target Analytes	pg/L
PCB-192	<1.2
PCB-180/193	<1.2
PCB-191	<1.0
PCB-170	<1.5
PCB-190	<0.96
PCB-189	<0.73
PCB-202	<0.96
PCB-201	<0.86
PCB-204	<0.88
PCB-197	<0.89
PCB-200	<0.86
PCB-198/199	<1.2
PCB-196	<1.2
PCB-203	<1.1
PCB-195	<0.98
PCB-194	<1.2
PCB-205	<0.86
PCB-208	<1.9
PCB-207	<2.2
PCB-206	<3.4
PCB-209	1.37
Extraction Standards	**% Rec**
13C12-PCB-001	23
13C12-PCB-003	25
13C12-PCB-004	25
13C12-PCB-015	40
13C12-PCB-019	27
13C12-PCB-037	61
13C12-PCB-054	26
13C12-PCB-081	76
13C12-PCB-077	82
13C12-PCB-104	33
13C12-PCB-123	83
13C12-PCB-118	81
13C12-PCB-114	87
13C12-PCB-105	94
13C12-PCB-126	112
13C12-PCB-155	48
13C12-PCB-167	86
13C12-PCB-156/157	88
13C12-PCB-169	110
13C12-PCB-188	57
13C12-PCB-189	98
13C12-PCB-202	70
13C12-PCB-205	80
13C12-PCB-208	80
13C12-PCB-206	80
13C12-PCB-209	69
Cleanup Standards	
13C12-PCB-028	21
13C12-PCB-111	42
13C12-PCB-178	44

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Quality Control Summary Report

Sample Name	Method Blank
ALS Sample ID	WG3603564-1
Sample Size	1.00
Sample size units	L
Percent Moisture	n/a
Sample Matrix	QC
Sampling Date	n/a
Extraction Date	7-Sep-21
Target Analytes	**pg/L**
Homologue Group Totals	
Total MonoCB	28.9
Total DiCB	<16
Total TriCB	<3.5
Total TetraCB	13.4
Total PentaCB	7.53
Total HexaCB	6.33
Total HeptaCB	<0.73
Total OctaCB	1.20
Total NonaCB	<1.9
DecaCB	1.37
Total PCB	58.7
Toxic Equivalency - (WHO 2005)	
Lower Bound PCB TEQ	0.000112
Mid Point PCB TEQ	0.119
Upper Bound PCB TEQ	0.237

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Sample Analysis Summary Report

Sample Name	Laboratory Control Sample
ALS Sample ID	WG3603564-2
Sample Size	1
Sample size units	n/a
Percent Moisture	n/a
Sample Matrix	QC
Sampling Date	n/a
Extraction Date	7-Sep-21

Target Analytes	% Rec
PCB-001	98
PCB-003	94
PCB-004	109
PCB-015	101
PCB-019	109
PCB-037	102
PCB-054	109
PCB-081	98
PCB-077	100
PCB-104	101
PCB-123	99
PCB-118	102
PCB-114	99
PCB-105	96
PCB-126	93
PCB-155	105
PCB-167	99
PCB-156/157	101
PCB-169	100
PCB-188	108
PCB-189	101
PCB-202	107
PCB-205	96
PCB-208	91
PCB-206	90
PCB-209	103
Extraction Standards	**% Rec**
13C12-PCB-001	29
13C12-PCB-003	32
13C12-PCB-004	32
13C12-PCB-015	45
13C12-PCB-019	32
13C12-PCB-037	64
13C12-PCB-054	31
13C12-PCB-081	69
13C12-PCB-077	70
13C12-PCB-104	35
13C12-PCB-123	71
13C12-PCB-118	68
13C12-PCB-114	72
13C12-PCB-105	77
13C12-PCB-126	86
13C12-PCB-155	47
13C12-PCB-167	77
13C12-PCB-156/157	77
13C12-PCB-169	92
13C12-PCB-188	58
13C12-PCB-189	79
13C12-PCB-202	65
13C12-PCB-205	70
13C12-PCB-208	78
13C12-PCB-206	76
13C12-PCB-209	62
Cleanup Standards	
13C12-PCB-028	26
13C12-PCB-111	39
13C12-PCB-178	42

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Sample Analysis Summary Report

Sample Name	CVS	CCV	CCV
ALS Sample ID	H5-20-RS1-1035	H5_21_CCV_944	H5_21_CCV_946
Sample Size	1	1	1
Sample size units	n/a	n/a	n/a
Percent Moisture	n/a	n/a	n/a
Sample Matrix	QC	QC	QC
Sampling Date	n/a	n/a	n/a
Extraction Date	n/a	n/a	n/a
Target Analytes	**% Rec**	**% Rec**	**% Rec**
PCB-001	104	91	91
PCB-003	101	85	86
PCB-004	107	98	99
PCB-015	109	96	98
PCB-019	111	101	99
PCB-037	107	98	97
PCB-054	108	99	99
PCB-081	103	97	97
PCB-077	103	95	96
PCB-104	98	104	105
PCB-123	104	97	97
PCB-118	103	101	101
PCB-114	104	94	96
PCB-105	101	95	96
PCB-126	101	98	98
PCB-155	100	103	102
PCB-167	100	101	101
PCB-156/157	103	102	102
PCB-169	106	103	101
PCB-188	103	104	106
PCB-189	103	99	100
PCB-202	105	103	103
PCB-205	99	102	101
PCB-208	98	94	94
PCB-206	95	94	96
PCB-209	105	90	91
Extraction Standards	**% Rec**	**% Rec**	**% Rec**
13C12-PCB-001	97	91	90
13C12-PCB-003	97	99	96
13C12-PCB-004	94	88	88
13C12-PCB-015	98	106	103
13C12-PCB-019	92	80	80
13C12-PCB-037	94	104	105
13C12-PCB-054	92	72	72
13C12-PCB-081	94	98	98
13C12-PCB-077	93	103	99
13C12-PCB-104	92	67	66
13C12-PCB-123	93	95	93
13C12-PCB-118	94	94	93
13C12-PCB-114	92	101	99
13C12-PCB-105	93	103	102
13C12-PCB-126	92	108	112
13C12-PCB-155	91	77	78
13C12-PCB-167	98	100	99
13C12-PCB-156/157	97	99	100
13C12-PCB-169	101	110	113
13C12-PCB-188	92	85	82
13C12-PCB-189	104	106	103
13C12-PCB-202	94	85	85
13C12-PCB-205	97	92	94
13C12-PCB-208	94	96	98
13C12-PCB-206	97	94	94
13C12-PCB-209	99	83	82
Cleanup Standards			
13C12-PCB-028	101	99	100
13C12-PCB-111	99	103	103
13C12-PCB-178	99	96	95

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Sample Analysis Report

Sample Name	**FINAL EFFLUENT**	Sampling Date	4-Aug-21		
ALS Sample ID	L2625428-1	Extraction Date	7-Sep-21		Approved:
Analysis Method	EPA 1668C	Sample Size	1.10	L	*N Ashtari*
Analysis Type	Sample	Percent Moisture	n/a		--e-signature--
Sample Matrix	Water	Split Ratio	2		11-Nov-2021

Run Information	**Run 1**
Filename	5_211102A24
Run Date	03-Nov-21 02:13
Final Volume	40 ul
Dilution Factor	1
Analysis Units	pg/L
Instrument - Column	HRMS-5 SPBOCTYL256001-02

Target Analytes	TEF (WHO 2005)	Ret. Time	Conc. pg/L	EDL pg/L	Flags	EMPC pg/L	LQL
PCB-001		8.91	<5.7	1.1	M,J,R	5.7	73
PCB-002		10.31	4.77	1.1	M,J		73
PCB-003		10.42	<7.6	1.0	M,J,R	7.6	73
PCB-004		NotFnd	<7.2	7.2	U		73
PCB-010		NotFnd	<3.3	3.3	U		73
PCB-009		NotFnd	<3.4	3.4	U		73
PCB-007		NotFnd	<3.3	3.3	U		73
PCB-006		NotFnd	<3.2	3.2	U		73
PCB-005		NotFnd	<4.0	4.0	U		73
PCB-008		12.40	<5.5	2.8	M,J,R	5.5	73
PCB-014		NotFnd	<6.3	6.3	U		73
PCB-011		13.92	<76	6.6	M,R	76	73
PCB-012/013		NotFnd	<6.7	6.7	U		73
PCB-015		14.31	<7.9	7.9	M,U	7.7	73
PCB-019		12.61	3.38	2.6	M,J		73
PCB-018/030		13.72	10.8	1.6	J		73
PCB-017		13.96	<5.6	2.0	J,R	5.6	73
PCB-027		NotFnd	<1.3	1.3	U		73
PCB-024		NotFnd	<1.4	1.4	U		73
PCB-016		14.25	<4.6	2.1	M,J,R	4.6	73
PCB-032		14.54	3.11	1.2	M,J		73
PCB-034		NotFnd	<1.5	1.5	U		73
PCB-023		NotFnd	<1.4	1.4	U		73
PCB-026/029		15.52	4.63	1.5	M,J		73
PCB-025		15.65	<2.0	1.2	M,J,R	2.0	73
PCB-031		15.83	23.6	1.3	J		73
PCB-020/028		16.00	28.2	1.5	M,J		73
PCB-021/033		16.15	<4.7	1.3	M,J,R	4.7	73
PCB-022		16.38	11.0	1.4	J		73
PCB-036		17.21	<1.3	1.3	U		73
PCB-039		NotFnd	<1.4	1.4	U		73
PCB-038		NotFnd	<1.5	1.5	U		73
PCB-035		18.01	3.31	1.5	M,J		73
PCB-037		18.26	7.69	1.7	J		73
PCB-054		NotFnd	<0.81	0.81	U		73
PCB-050/053		15.67	2.70	0.85	M,J		73
PCB-045/051		16.09	5.88	0.89	J		73
PCB-046		16.24	1.22	1.1	M,J		73
PCB-052		17.00	49.3	0.85	M,J		73
PCB-073		NotFnd	<0.69	0.69	U		73
PCB-043		17.13	2.37	0.98	M,J		73
PCB-049/069		17.27	16.3	0.76	J		73
PCB-048		17.43	4.93	0.88	J		73
PCB-044/047/065		17.56	40.1	0.81	J		73
PCB-059/062/075		17.75	2.18	0.66	J		73
PCB-042		17.86	<5.0	0.92	M,J,R	5.0	73
PCB-040/041/071		18.13	13.4	0.91	J		73
PCB-064		18.24	12.3	0.63	J		73
PCB-072		NotFnd	<0.81	0.81	U		73
PCB-068		18.81	2.89	0.75	J		73
PCB-057		NotFnd	<0.86	0.86	U		73
PCB-058		19.17	<0.85	0.85	M,U		73
PCB-067		19.27	<0.74	0.74	M,U	0.66	73
PCB-063		19.40	<0.98	0.79	J,R	0.98	73
PCB-061/070/074/076		19.60	70.7	0.85	J		73
PCB-066		19.77	22.3	0.77	J		73
PCB-055		NotFnd	<0.85	0.85	U		73
PCB-056		20.16	<11	0.88	J,R	11	73
PCB-060		20.28	6.82	0.84	J		73
PCB-080		NotFnd	<0.73	0.73	U		73
PCB-079		21.27	<0.71	0.71	M,U	0.56	73
PCB-078		NotFnd	<0.82	0.82	U		73
PCB-081	0.0003	NotFnd	<0.82	0.82	U		73
PCB-077	0.0001	22.13	2.03	0.86	J		73
PCB-104		NotFnd	<0.75	0.75	U		73
PCB-096		NotFnd	<0.64	0.64	U		73
PCB-103		NotFnd	<0.94	0.94	U		73
PCB-094		NotFnd	<1.1	1.1	U		73
PCB-095		19.14	47.4	1.0	M,J		73
PCB-093/098/100/102		19.30	<1.1	1.1	M,U	0.042	73

ALS Life Sciences

Sample Analysis Report

Sample Name	**FINAL EFFLUENT**	Sampling Date	4-Aug-21		
ALS Sample ID	L2625428-1	Extraction Date	7-Sep-21		Approved:
Analysis Method	EPA 1668C	Sample Size	1.10	L	*N Ashtari*
Analysis Type	Sample	Percent Moisture	n/a		--e-signature--
Sample Matrix	Water	Split Ratio	2		11-Nov-2021

Run Information	**Run 1**
Filename	5_211102A24
Run Date	03-Nov-21 02:13
Final Volume	40 ul
Dilution Factor	1
Analysis Units	pg/L
Instrument - Column	HRMS-5 SPBOCTYL256001-02

Target Analytes	TEF (WHO 2005)	Ret. Time	Conc. pg/L	EDL pg/L	Flags	EMPC pg/L	LQL
PCB-088/091		19.60	8.23	1.1	J		73
PCB-084		19.74	15.3	1.2	J		73
PCB-089		NotFnd	<1.2	1.2	U		73
PCB-121		NotFnd	<0.77	0.77	U		73
PCB-092		20.35	12.7	1.1	J		73
PCB-090/101/113		20.66	71.7	0.90	J		73
PCB-083/099		20.97	37.1	1.1	J		73
PCB-112		21.09	<0.78	0.78	U	0.31	73
PCB-086/087/097/109/119/125		21.32	48.9	0.91	M,J		73
PCB-085/110/115/116/117		21.73	94.8	0.83	M		73
PCB-082		21.93	<7.4	1.3	M,J,R	7.4	73
PCB-111		NotFnd	<0.75	0.75	U		73
PCB-120		NotFnd	<0.70	0.70	U		73
PCB-108/124		22.92	2.42	1.0	J		73
PCB-107		23.05	3.80	1.0	M,J		73
PCB-123	0.00003	NotFnd	<1.1	1.1	U		73
PCB-106		NotFnd	<0.97	0.97	U		73
PCB-118	0.00003	23.28	69.0	1.0	M,J		73
PCB-122		NotFnd	<1.1	1.1	U		73
PCB-114	0.00003	23.58	<2.0	0.97	M,J,R	2.0	73
PCB-105	0.00003	23.93	27.1	1.0	J		73
PCB-127		NotFnd	<0.94	0.94	U		73
PCB-126	0.1	NotFnd	<1.0	1.0	U		73
PCB-155		20.51	5.02	0.36	J		73
PCB-152		NotFnd	<0.35	0.35	U		73
PCB-150		20.74	<0.37	0.37	M,U	0.27	73
PCB-136		20.98	5.83	0.37	J		73
PCB-145		NotFnd	<0.38	0.38	U		73
PCB-148		NotFnd	<0.49	0.49	U		73
PCB-135/151		22.19	15.7	0.52	M,J		73
PCB-154		22.27	1.05	0.44	M,J		73
PCB-144		22.48	<2.3	0.50	J,R	2.3	73
PCB-147/149		22.67	42.6	0.69	M,J		73
PCB-134/143		22.82	2.43	0.78	J		73
PCB-139/140		22.98	1.96	0.68	M,J		73
PCB-131		23.11	<1.0	0.82	M,J,R	1.0	73
PCB-142		NotFnd	<0.75	0.75	U		73
PCB-132		23.36	20.1	0.74	J		73
PCB-133		23.56	1.21	0.69	J		73
PCB-165		NotFnd	<0.52	0.52	U		73
PCB-146		23.88	7.99	0.64	J		73
PCB-161		NotFnd	<0.48	0.48	U		73
PCB-153/168		24.21	50.2	0.53	J		73
PCB-141		24.34	11.2	0.69	J		73
PCB-130		24.56	<3.3	0.76	M,J,R	3.3	73
PCB-137/164		24.67	6.55	0.58	M,J		73
PCB-129/138/163		24.90	72.3	0.70	J		73
PCB-160		NotFnd	<0.41	0.41	U		73
PCB-158		25.09	6.83	0.45	J		73
PCB-128/166		25.57	8.49	0.57	J		73
PCB-159		NotFnd	<0.47	0.47	U		73
PCB-162		NotFnd	<0.50	0.50	U		73
PCB-167	0.00003	26.42	<2.4	0.49	M,J,R	2.4	73
PCB-156/157	0.00003	27.04	8.66	0.69	J		150
PCB-169	0.03	NotFnd	<0.51	0.51	U		73
PCB-188		NotFnd	<0.30	0.30	U		73
PCB-179		23.73	<4.1	0.27	J,R	4.1	73
PCB-184		23.95	8.17	0.26	J		73
PCB-176		24.18	<1.0	0.28	M,J,R	1.0	73
PCB-186		NotFnd	<0.29	0.29	U		73
PCB-178		25.09	3.29	0.40	J		73
PCB-175		NotFnd	<0.38	0.38	U		73
PCB-187		25.55	14.0	0.35	J		73
PCB-182		NotFnd	<0.39	0.39	U		73
PCB-183		25.86	6.47	0.36	M,J		73
PCB-185		25.95	0.703	0.38	M,J		73
PCB-174		26.02	9.34	0.41	M,J		73
PCB-177		26.26	5.32	0.40	J		73
PCB-181		NotFnd	<0.40	0.40	U		73
PCB-171/173		26.58	<2.5	0.42	M,J,R	2.5	73
PCB-172		27.36	1.39	0.40	J		73

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Sample Analysis Report

Sample Name	**FINAL EFFLUENT**	Sampling Date	4-Aug-21		
ALS Sample ID	L2625428-1	Extraction Date	7-Sep-21		Approved:
Analysis Method	EPA 1668C	Sample Size	1.10	L	*N Ashtari*
Analysis Type	Sample	Percent Moisture	n/a		--e-signature--
Sample Matrix	Water	Split Ratio	2		11-Nov-2021

Run Information	**Run 1**
Filename	5_211102A24
Run Date	03-Nov-21 02:13
Final Volume	40 ul
Dilution Factor	1
Analysis Units	pg/L
Instrument - Column	HRMS-5 SPBOCTYL256001-02

Target Analytes	**TEF (WHO 2005)**	**Ret. Time**	**Conc. pg/L**	**EDL pg/L**	**Flags**	**EMPC pg/L**	**LQL**
PCB-192		NotFnd	<0.32	0.32	U		73
PCB-180/193		27.71	25.6	0.34	J		73
PCB-191		NotFnd	<0.29	0.29	U		73
PCB-170		28.40	9.63	0.42	J		73
PCB-190		28.67	1.90	0.27	M,J		73
PCB-189	0.00003	29.98	0.468	0.33	M,J		73
PCB-202		26.29	<2.0	0.35	J,R	2.0	73
PCB-201		26.77	<1.0	0.34	J,R	1.0	73
PCB-204		27.07	<0.35	0.35	M,U	0.31	73
PCB-197		27.21	<0.63	0.35	J,R	0.63	73
PCB-200		27.31	<0.50	0.34	J,R	0.50	73
PCB-198/199		28.72	7.95	0.49	J		73
PCB-196		29.03	2.67	0.49	M,J		73
PCB-203		29.15	<3.5	0.44	M,J,R	3.5	73
PCB-195		29.88	2.01	0.41	J		73
PCB-194		31.09	6.36	0.38	J		73
PCB-205		31.37	<0.38	0.38	M,U	0.33	73
PCB-208		29.71	<1.5	0.93	M,J,R	1.5	73
PCB-207		30.17	<1.0	1.0	M,J,R	1.0	73
PCB-206		32.43	<4.1	1.6	M,J,R	4.1	73
PCB-209		33.56	2.67	0.30	J,B		73

Extraction Standards	**pg**	**Time**	**% Rec**	**Limits**
13C12-PCB-001	4000	8.90	16	5-145
13C12-PCB-003	4000	10.44	21	5-145
13C12-PCB-004	4000	10.59	20	5-145
13C12-PCB-015	4000	14.30	43	5-145
13C12-PCB-019	4000	12.60	24	5-145
13C12-PCB-037	4000	18.24	63	5-145
13C12-PCB-054	4000	14.45	27	5-145
13C12-PCB-081	4000	21.81	69	10-145
13C12-PCB-077	4000	22.12	71	10-145
13C12-PCB-104	4000	17.50	37	10-145
13C12-PCB-123	4000	23.10	69	10-145
13C12-PCB-118	4000	23.27	68	10-145
13C12-PCB-114	4000	23.57	73	10-145
13C12-PCB-105	4000	23.92	75	10-145
13C12-PCB-126	4000	25.51	83	10-145
13C12-PCB-155	4000	20.50	49	10-145
13C12-PCB-167	4000	26.41	72	10-145
13C12-PCB-156/157	8000	27.04	71	10-145
13C12-PCB-169	4000	28.69	86	10-145
13C12-PCB-188	4000	23.50	56	10-145
13C12-PCB-189	4000	29.96	74	10-145
13C12-PCB-202	4000	26.27	57	10-145
13C12-PCB-205	4000	31.36	65	10-145
13C12-PCB-208	4000	29.69	68	10-145
13C12-PCB-206	4000	32.42	67	10-145
13C12-PCB-209	4000	33.53	54	10-145

Cleanup Standards				
13C12-PCB-028	4000	15.99	26	5-145
13C12-PCB-111	4000	22.03	39	10-145
13C12-PCB-178	4000	25.08	42	10-145

ALS Life Sciences

Sample Analysis Report

Sample Name	**FINAL EFFLUENT**	Sampling Date	4-Aug-21		
ALS Sample ID	L2625428-1	Extraction Date	7-Sep-21		Approved:
Analysis Method	EPA 1668C	Sample Size	1.10	L	*N Ashtari*
Analysis Type	Sample	Percent Moisture	n/a		--e-signature--
Sample Matrix	Water	Split Ratio	2		11-Nov-2021

Run Information	**Run 1**
Filename	5_211102A24
Run Date	03-Nov-21 02:13
Final Volume	40 ul
Dilution Factor	1
Analysis Units	pg/L
Instrument - Column	HRMS-5 SPBOCTYL256001-02

Target Analytes	**TEF (WHO 2005)**	**Ret. Time**	**Conc. pg/L**	**EDL pg/L**	**Flags**	**EMPC pg/L**	**LQL**
Homologue Group Totals							
Total MonoCB			18.1	1.0	J		290
Total DiCB			81.5	2.8	J		580
Total TriCB			113	1.2	J		580
Total TetraCB			272	0.63	J		1200
Total PentaCB			448	0.64	J		1200
Total HexaCB			277	0.35	J		1200
Total HeptaCB			93.9	0.26	J		580
Total OctaCB			26.6	0.34	J		580
Total NonaCB			5.60	0.93	J		290
DecaCB			2.67	0.30	J		290
Total PCB			1340		J		2300
Toxic Equivalency - (WHO 2005)							
Lower Bound PCB TEQ			0.00336				
Mid Point PCB TEQ			0.0613				
Upper Bound PCB TEQ			0.119				

EDL	Indicates the Estimated Detection Limit, based on the measured background noise for this target in this sample.
TEF	Indicates the Toxic Equivalency Factor TEQ Indicates the Toxic Equivalency
LQL	Lower Quantification Limit, based on the lowest calibration level corrected for sample size, splits and dilutions.
M	Indicates that a peak has been manually integrated.
U	Indicates that this compound was not detected above the EDL.
J	Indicates that the analyte was positively identified. The associated numerical result is an estimate.
R	Indicates that the ion abundance ratio for this analyte did not meet the control limit. The reported value represents an estimated concentration.
B	Indicates that this target was detected in the blank at greater than 10% of the sample concentration.
EMPC	Estimated Maximum Possible Concentration – elevated detection limit due to interference or positive id criterion failure

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SVOC DATA PACKAGE

SECTION 3: METHOD SUMMARY

PCB METHOD SUMMARY
Method 1668

Introduction:

This summary is to provide ALSE Burlington PCB method details in order to provide persons reviewing or validating this data package sufficient informatior to re-construct the sample calculation, data verification and review. It incorporates the analysis of PCBs via the following reference methods

US EPA Office of Water, Method 1668A
US EPA Office of Water, Method 1668C

Any deviations to what is listed herein would be listed in the project narrative

To avoid the confusion and conflicting nomenclature within the methods, we have defined the labeled standards in terms relating to the time of addition to the sample or extract. Therefore;

The Field or Sampling Standards are added prior to field sampling
The Extraction Standards are added prior to extraction
The Clean-up Standards are added prior to extract clean-up
The Injection Standards are added prior to extract injection

Calibration Standard Levels:

Six levels of standard are available for calibration as listed in Table 1. The low point (the CS0) is below method requirements and therefore is optional

Table 1. Concentration of CB congeners in calibration and calibration verification standards
Solution concentration (ng/mL)

CB congener	IUPAC [1]	CS-0.2 (Hi sens)2	CS-1	CS-2	CS-3 (VER)	CS-4	CS-5
Native Toxics/LOC							
2-MoCB	1	0.2	1	5	50	400	2000
4-MoCB	3	0.2	1	5	50	400	2000
2,2'-DiCB	4	0.2	1	5	50	400	2000
4,4'-DiCB	15	0.2	1	5	50	400	2000
2,2',6'-TrCB	19	0.2	1	5	50	400	2000
3,4,4'-TrCB	37	0.2	1	5	50	400	2000
2,2',6,6'-TeCB	54	0.2	1	5	50	400	2000
3,3',4,4'-TeCB	77	0.2	1	5	50	400	2000
3,4,4',5-TeCB	81	0.2	1	5	50	400	2000
2,2',4,6,6'-PeCB	104	0.2	1	5	50	400	2000
2,3,3',4,4'-PeCB	105	0.2	1	5	50	400	2000
2,3,4,4',5-PeCB	114	0.2	1	5	50	400	2000
2,3',4,4',5-PeCB	118	0.2	1	5	50	400	2000
2',3,4,4',5-PeCB	123	0.2	1	5	50	400	2000
3,3',4,4',5-PeCB	126	0.2	1	5	50	400	2000
2,2',4,4',6,6'-HxCB	155	0.2	1	5	50	400	2000
2,3,3',4,4',5-HxCB	156	0.2	1	5	50	400	2000
2,3,3',4,4',5'-HxCB	157	0.2	1	5	50	400	2000
2,3',4,4',5,5'-HxCB	167	0.2	1	5	50	400	2000
3,3',4,4',5,5'-HxCB	169	0.2	1	5	50	400	2000
2,2',3,4',5,6,6'-HpCB	188	0.2	1	5	50	400	2000
2,3,3',4,4',5,5'-HpCB	189	0.2	1	5	50	400	2000
2,2',3,3',5,5',6,6'-OcCB	202	0.2	1	5	50	400	2000
2,3,3',4,4',5,5',6-OcCB	205	0.2	1	5	50	400	2000
2,2',3,3',4,4',5,5',6-NoCB	206	0.2	1	5	50	400	2000
2,2',3,3',4',5,5',6,6'-NoCB	208	0.2	1	5	50	400	2000
DeCB 209	209	0.2	1	5	50	400	2000
Labelled Toxics/LOC/window-defining							
13C12-2-MoCB	1L	100	100	100	100	100	100
13C12-4-MoCB	3L	100	100	100	100	100	100
13C12-2,2'-DiCB	4L	100	100	100	100	100	100
13C12-4,4'-DiCB	15L	100	100	100	100	100	100
13C12-2,2',6'-TrCB	19L	100	100	100	100	100	100
13C12-3,4,4'-TrCB	37L	100	100	100	100	100	100
13C12-2,2',6,6'-TeCB	54L	100	100	100	100	100	100
13C12-3,3',4,4'-TeCB	77L	100	100	100	100	100	100
13C12-3,4,4',5-TeCB	81L	100	100	100	100	100	100
13C12-2,2',4,6,6'-PeCB	104L	100	100	100	100	100	100
13C12-2,3,3',4,4'-PeCB	105L	100	100	100	100	100	100
13C12-2,3,4,4',5-PeCB	114L	100	100	100	100	100	100
13C12-2,3',4,4',5-PeCB	118L	100	100	100	100	100	100
13C12-2',3,4,4',5-PeCB	123L	100	100	100	100	100	100
13C12-3,3',4,4',5-PeCB	126L	100	100	100	100	100	100
13C12-2,2',4,4',6,6'-HxCB	155L	100	100	100	100	100	100
13C12-2,3,3',4,4',5-HxCB	156L	100	100	100	100	100	100
13C12-2,3,3',4,4',5'-HxCB	157L	100	100	100	100	100	100
13C12-2,3',4,4',5,5'-HxCB	167L	100	100	100	100	100	100
13C12-3,3',4,4',5,5'-HxCB	169L	100	100	100	100	100	100
13C12-2,2',3,4',5,6,6'-HpCB	188L	100	100	100	100	100	100
13C12-2,3,3',4,4',5,5'-HpCB	189L	100	100	100	100	100	100
13C12-2,2',3,3',5,5',6,6'-OcCB	202L	100	100	100	100	100	100
13C12-2,3,3',4,4',5,5',6-OcCB	205L	100	100	100	100	100	100
13C12-2,2',3,3',4,4',5,5',6-NoCB	206L	100	100	100	100	100	100
13C12-2,2',3,3',4',5,5',6,6'-NoCB	208L	100	100	100	100	100	100
13C12-DeCB 209L	209L	100	100	100	100	100	100
Labelled clean-up							
13C12-2,4,4'-TrCB	28L	100	100	100	100	100	100
13C12-2,3,3',5,5'-PeCB	111L	100	100	100	100	100	100
13C12-2,2',3,3',5,5',6-HpCB	178L	100	100	100	100	100	100
Labelled injection internal							
13C12-2,5-DiCB	9L	100	100	100	100	100	100
13C12-2,2',5,5'-TeCB	52L	100	100	100	100	100	100
13C12-2,2',4',5,5'-PeCB	101L	100	100	100	100	100	100
13C12-2,2',3',4,4',5'-HxCB	138L	100	100	100	100	100	100
13C12-2,2',3,3',4,4',5,5'-OcCB	194L	100	100	100	100	100	100

Method Control Limits for 1668A

The initial and continuing calibration control limits for both methods are presented in Table 2 below. For the initial calibration CS1 and for each calibration verification CS3, the signal to noise ratio for each quantification ion for labelled and non-labelled analytes must be greater than or equal to 10:1

Table 2A. QC acceptance crtiteria for chlorinated biphenyls in VER, IPR, OPR, and samples [1]

Congener	IUPAC Number [2]	Test conc (ng/mL)	VER (%)	IPR RSD (%)	IPR X (%)	OPR (%)	Labelled compound recovery in samples (%)
2-MoCB	1	50	70-130	40	60-140	50-150	
4-MoCB	3	50	70-130	40	60-140	50-150	
2,2'-DiCB	4	50	70-130	40	60-140	50-150	
4,4'-DiCB	15	50	70-130	40	60-140	50-150	
2,2'6-TrCB	19	50	70-130	40	60-140	50-150	
3,4,4'-TrCB	37	50	70-130	40	60-140	50-150	
2,2'6,6'TeCB	54	50	70-130	40	60-140	50-150	
3,3',4,4'-TeCB	77	50	70-130	40	60-140	50-150	
3,4,4',5-TeCB	81	50	70-130	40	60-140	50-150	
2,2',4,6,6'-PeCB	104	50	70-130	40	60-140	50-150	
2,3,3',4,4'-PeCB	105	50	70-130	40	60-140	50-150	
2,3,4,4',5-PeCB	114	50	70-130	40	60-140	50-150	
2,3',4,4',5-PeCB	118	50	70-130	40	60-140	50-150	
2',3,4,4',5-PeCB	123	50	70-130	40	60-140	50-150	
3,3',4,4',5-PeCB	126	50	70-130	40	60-140	50-150	
2,2',4,4',6,6'-HxCB	155	50	70-130	40	60-140	50-150	
2,3,3',4,4',5-HxCB [3]	156	50	70-130	40	60-140	50-150	
2,3,3',4,4',5'-HxCB [3]	157	50	70-130	40	60-140	50-150	
2,3',4,4',5,5'-HxCB	167	50	70-130	40	60-140	50-150	
3,3',4,4',5,5'-HxCB	169	50	70-130	40	60-140	50-150	
2,2',3,4',5,6,6'-HpCB	188	50	70-130	40	60-140	50-150	
2,3,3',4,4',5,5'-HpCB	189	50	70-130	40	60-140	50-150	
2,2',3,3',5,5',6,6'-OcCB	202	50	70-130	40	60-140	50-150	
2,3,3',4,4',5,5',6-OcCB	205	50	70-130	40	60-140	50-150	
2,2',3,3',4,4',5,5',6-NoCB	206	50	70-130	40	60-140	50-150	
2,2',3,3,'4,5,5',6,6'-NoCB	208	50	70-130	40	60-140	50-150	
DeCB	209	50	70-130	40	60-140	50-150	
13C12-2-MoCB	1L	100	50-150	50	35-135	30-140	25-150
13C12-4-MoCB	3L	100	50-150	50	35-135	30-140	25-150
13C12-2,2'-DiCB	4L	100	50-150	50	35-135	30-140	25-150
13C12-4,4'-DiCB	15L	100	50-150	50	35-135	30-140	25-150
13C12-2,2',6-TrCB	19L	100	50-150	50	35-135	30-140	25-150
13C12-3,4,4'-TrCB	37L	100	50-150	50	35-135	30-140	25-150
13C12-2,2',6,6'-TeCB	54L	100	50-150	50	35-135	30-140	25-150
13C12-3,3',4,4'-TCB	77L	100	50-150	50	35-135	30-140	25-150
13C12-3,4,4',5-TeCB	81L	100	50-150	50	35-135	30-140	25-150
13C12-2,2',4,6,6'-PeCB	104L	100	50-150	50	35-135	30-140	25-150
13C12-2,3,3',4,4'-PeCB	105L	100	50-150	50	35-135	30-140	25-150
13C12-2,3,4,4',5-PeCB	114L	100	50-150	50	35-135	30-140	25-150
13C12-2,3',4,4',5-PeCB	118L	100	50-150	50	35-135	30-140	25-150
13C12-2',3,4,4',5-PeCB	123L	100	50-150	50	35-135	30-140	25-150
13C12-3,3',4,4',5-PeCB	126L	100	50-150	50	35-135	30-140	25-150
13C12-2,2',4,4',6,6'-HxCB	155L	100	50-150	50	35-135	30-140	25-150
13C12-2,3,3',4,4',5 –HxCB [3]	156L	100	50-150	50	35-135	30-140	25-150
13C12-2,3,3',4,4',5'-HxCB [3]	157L	100	50-150	50	35-135	30-140	25-150
13C12-2,3',4,4',5,5'-HxCB	167L	100	50-150	50	35-135	30-140	25-150
13C12-3,3',4,4',5,5'-HxCB	169L	100	50-150	50	35-135	30-140	25-150
13C12-2,2',3,4',5,6,6'-HpCB	188L	100	50-150	50	35-135	30-140	25-150
13C12-2',3,3',4,4',5,5'-HpCB	189L	100	50-150	50	35-135	30-140	25-150
13C12-2,2',3,3',5,5',6,6'-OcCB	202L	100	50-150	50	35-135	30-140	25-150
13C12-2,3,3',4,4',5,5',6-OcCB	205L	100	50-150	50	35-135	30-140	25-150
13C12-2,2',3,3',4,4',5,5',6-NoCB	206L	100	50-150	50	35-135	30-140	25-150
13C12-2,2',3,3',4,5,5',6,6'-NoCB	208L	100	50-150	50	35-135	30-140	25-150
13C12-2,2',3,3',4,4',5,5',6,6'-DeCB	209L	100	50-150	50	35-135	30-140	25-150
Cleanup standard							
13C12-2,4,4'-TrCB	28L	100	60-130	45	45-120	40-125	30-135
13C12-2,3,3',5,5'-PeCB	111L	100	60-130	45	45-120	40-125	30-135
13C12-2,2',3,3',5,5',6-HpCB	178L	100	60-130	45	45-120	40-125	30-135

1. QC acceptance criteria for IPR, OPR, and samples based on a 20 ul extract final volume
2. Suffix "L" indicates labelled compound.
3. PCBs 156 and 157 are tested as the sum of two concentrations

Method Control Limits for 1668C

The initial and continuing calibration control limits for both methods are presented in Table 2 below. For the initial calibration CS1 and for each calibration verification CS3, the signal to noise ratio for each quantification ion for labelled and non-labelled analytes must be greater than or equal to 10:1

Table 2A. QC acceptance crtiteria for chlorinated biphenyls in VER, IPR, OPR, and samples [1]

Congener	IUPAC Number [2]	Test conc (ng/mL)	VER (%)	IPR		OPR (%)	Labelled compound recovery in samples (%)
				RSD (%)	X (%)		
2-MoCB	1	50	75 - 125	25	70 - 130	60 - 135	
4-MoCB	3	50	75 - 125	25	70 - 130	60 - 135	
2,2'-DiCB	4	50	75 - 125	25	70 - 130	60 - 135	
4,4'-DiCB	15	50	75 - 125	25	70 - 130	60 - 135	
2,2'6-TrCB	19	50	75 - 125	25	70 - 130	60 - 135	
3,4,4'-TrCB	37	50	75 - 125	25	70 - 130	60 - 135	
2,2'6,6'TeCB	54	50	75 - 125	25	70 - 130	60 - 135	
3,3',4,4'-TeCB	77	50	75 - 125	25	70 - 130	60 - 135	
3,4,4',5-TeCB	81	50	75 - 125	25	70 - 130	60 - 135	
2,2',4,6,6'-PeCB	104	50	75 - 125	25	70 - 130	60 - 135	
2,3,3',4,4'-PeCB	105	50	75 - 125	25	70 - 130	60 - 135	
2,3,4,4',5-PeCB	114	50	75 - 125	25	70 - 130	60 - 135	
2,3',4,4',5-PeCB	118	50	75 - 125	25	70 - 130	60 - 135	
2',3,4,4',5-PeCB	123	50	75 - 125	25	70 - 130	60 - 135	
3,3',4,4',5-PeCB	126	50	75 - 125	25	70 - 130	60 - 135	
2,2',4,4',6,6'-HxCB	155	50	75 - 125	25	70 - 130	60 - 135	
2,3,3',4,4',5-HxCB [3]	156	50	75 - 125	25	70 - 130	60 - 135	
2,3,3',4,4',5'-HxCB [3]	157	50	75 - 125	25	70 - 130	60 - 135	
2,3',4,4',5,5'-HxCB	167	50	75 - 125	25	70 - 130	60 - 135	
3,3',4,4',5,5'-HxCB	169	50	75 - 125	25	70 - 130	60 - 135	
2,2',3,4',5,6,6'-HpCB	188	50	75 - 125	25	70 - 130	60 - 135	
2,3,3',4,4',5,5'-HpCB	189	50	75 - 125	25	70 - 130	60 - 135	
2,2',3,3',5,5',6,6'-OcCB	202	50	75 - 125	25	70 - 130	60 - 135	
2,3,3',4,4',5,5',6-OcCB	205	50	75 - 125	25	70 - 130	60 - 135	
2,2',3,3',4,4',5,5',6-NoCB	206	50	75 - 125	25	70 - 130	60 - 135	
2,2',3,3,'4,5,5',6,6'-NoCB	208	50	75 - 125	25	70 - 130	60 - 135	
DeCB	209	50	75 - 125	25	70 - 130	60 - 135	
13C12-2-MoCB	1L	100	50 - 145	70	20 - 135	5 - 145	5 - 145
13C12-4-MoCB	3L	100	50 - 145	70	20 - 135	5 - 145	5 - 145
13C12-2,2'-DiCB	4L	100	50 - 145	70	20 - 135	5 - 145	5 - 145
13C12-4,4'-DiCB	15L	100	50 - 145	70	20 - 135	5 - 145	5 - 145
13C12-2,2',6-TrCB	19L	100	50 - 145	70	20 - 135	5 - 145	5 - 145
13C12-3,4,4'-TrCB	37L	100	50 - 145	70	20 - 135	5 - 145	5 - 145
13C12-2,2',6,6'-TeCB	54L	100	50 - 145	70	20 - 135	5 - 145	5 - 145
13C12-3,3',4,4'-TeCB	77L	100	50 - 145	50	45 - 135	10 - 145	10 - 145
13C12-3,4,4',5-TeCB	81L	100	50 - 145	50	45 - 135	10 - 145	10 - 145
13C12-2,2',4,6,6'-PeCB	104L	100	50 - 145	50	45 - 135	10 - 145	10 - 145
13C12-2,3,3',4,4'-PeCB	105L	100	50 - 145	50	45 - 135	10 - 145	10 - 145
13C12-2,3,4,4',5-PeCB	114L	100	50 - 145	50	45 - 135	10 - 145	10 - 145
13C12-2,3',4,4',5-PeCB	118L	100	50 - 145	50	45 - 135	10 - 145	10 - 145
13C12-2',3,4,4',5-PeCB	123L	100	50 - 145	50	45 - 135	10 - 145	10 - 145
13C12-3,3',4,4',5-PeCB	126L	100	50 - 145	50	45 - 135	10 - 145	10 - 145
13C12-2,2',4,4',6,6'-HxCB	155L	100	50 - 145	50	45 - 135	10 - 145	10 - 145
13C12-2,3,3',4,4',5 -HxCB [3]	156L	100	50 - 145	50	45 - 135	10 - 145	10 - 145
13C12-2,3,3',4,4',5'-HxCB [3]	157L	100	50 - 145	50	45 - 135	10 - 145	10 - 145
13C12-2,3',4,4',5,5'-HxCB	167L	100	50 - 145	50	45 - 135	10 - 145	10 - 145
13C12-3,3',4,4',5,5'-HxCB	169L	100	50 - 145	50	45 - 135	10 - 145	10 - 145
13C12-2,2',3,4',5,6,6'-HpCB	188L	100	50 - 145	50	45 - 135	10 - 145	10 - 145
13C12-2',3,3',4,4',5,5'-HpCB	189L	100	50 - 145	50	45 - 135	10 - 145	10 - 145
13C12-2,2',3,3',5,5',6,6'-OcCB	202L	100	50 - 145	50	45 - 135	10 - 145	10 - 145
13C12-2,3,3',4,4',5,5',6-OcCB	205L	100	50 - 145	50	45 - 135	10 - 145	10 - 145
13C12-2,2',3,3',4,4',5,5',6-NoCB	206L	100	50 - 145	50	45 - 135	10 - 145	10 - 145
13C12-2,2',3,3',4,5,5',6,6'-NoCB	208L	100	50 - 145	50	45 - 135	10 - 145	10 - 145
13C12-2,2',3,3',4,4',5,5',6,6'-DeCB	209L	100	50 - 145	50	45 - 135	10 - 145	10 - 145
Cleanup standards							
13C12-2,4,4'-TrCB	28L	100	65 - 135	70	20 - 135	5 - 145	5 - 145
13C12-2,3,3',5,5'-PeCB	111L	100	75 - 125	50	45 - 135	10 - 145	10 - 145
13C12-2,2',3,3',5,5',6-HpCB	178L	100	75 - 125	50	45 - 135	10 - 145	10 - 145

1. QC acceptance criteria for IPR, OPR, and samples based on a 20-µL extract final volume
2. Suffix "L" indicates labeled compound.
3. CBs 156/157 and 156L/157L are tested as the sum of the two congeners

Reporting Limits:

Unless indicated in the otherwise, the PCB results are reported down to 2.5:1 signal to noise for each isomer grouping for each extract injection. This is consistent to SW846 8290 defined protocols (i.e. EDL or Estimated Detection Limit) and is commonly applied throughout the industry to any or all the HRMS performance based methods applicable to this method summary.

Method Blank:

The Method Blank must be below the EMLs published in the required method, 1668A or 1668C.

MS/MSD:

The % relative difference between the MS and MSD spike recoveries should be less than or equal to 20%.

Instrument/Run Performance Criteria:

1 Elution windows must be defined by a 'Window Performance Mix' at the beginning of each 12-hour run sequence

2 GC performance criteria of 40% maximum valley between PCB-34/PCB-23, and PCB-187/PCB-182 (Octyl Column).

3 At the beginning of and just following the end of each 12 hour run sequence, the instrument must be checked to demonstrate a resolution of 10,000 within each quantification window (8,000 minimum across the window).

4 The relative retention times (RRT) of the compounds in the daily 209 congener mix must fall into the ranges presented in Table 4.

5 The RT in the daily CS3 verification standards must be within 15 seconds of the CS3 in the initial calibration run.

6 The maximum time between scans within a descriptor is 1 second.

7 Lock mass deviations to the average response must be less than or equal 20%.

Laboratory Duplicates:

The % relative difference between duplicates should be less than or equal to 25% but only where the response is greater than the low calibration standard.

Analyte Identification Criteria:

1 Ion ratio must be within 15% of theoretical or within 10% of the most recent CS3.

2 The retention time (RT) of the peak maxima for each pair of quantification ions must be no more than 2 seconds (i.e. 2 scans) difference.

3 The retention time (RT) of the peak maxima of all native analytes for which a labeled analogue is used must be within -1 to +3 seconds of the RT of corresponding $^{13}C_{12}$-labelled isomer of that injection run.

4 For those native analytes without a corresponding labelled isomer, the relative retention time (RRT) must be within 0.005 of the relative retention time observed in the daily 209 congener run.

DEVIATIONS AND CLARIFICATIONS FROM THE PRIMARY REFERENCES

The reference methods applicable to this document are:
US EPA Office of Water, Method 1668A
US EPA Office of Water, Method 1668C

These methods are referred-to herein as Method 1668

The following changes and clarifications apply:

1) As stated in method 1668, alternate columns and column systems are allowable changes to the method. In the context of the method, it is clear that Table 2 of this method (including retention times, relative retention times, and quantitation references) is specific to the Octyl GC column if used exactly as suggested in the method.

As a performance based method, changes in the internal standard references could be considered an improvement even when using the SPB-Octyl column. However when using an alternate column system (which may or may not include use of the Octyl column), optimization of the quantitation references can be an important part of optimizing the method. Consider that the MS acquisition method must be divided into mass descriptors or 'functions', each one defining the masses that are monitored during that time range. When monitoring for all 209 PCB congeners, there are large chromatographic regions where elution of target compounds is nearly continuous with little separation between peaks. In addition, there is a slight acquisition "gap" that occurs at each function change (for Water's instruments 1-2 seconds, for Thermo instruments 6-8 seconds), and also the likelihood of slight retention time shifts from one run to another. Consequently, choosing the exact location of each function boundary can be challenging. For a 1668 method, there are typically between 5 and 8 functions dependent upon the column, the GC conditions, the instrument and the choice of the function boundaries by the laboratory. Each function can have 1 to as many as 4 chlorination levels. When optimizing the quantification model in the case where RT and elution patterns have changed – even slightly - the best choice of internal standard references can and should change dependent upon target retention times and placement of function boundaries. For example, the best quantification is achieved using an internal standard reference that elutes at close to the same retention time. Another consideration is that it is best practice where possible (i.e. generally allows for more accurate target determinations) to have the internal standard reference within the same function rather than quantify a target relative to an internal standard from an outside function.

The quantification references used in this analysis are detailed in Table 3.

2) The absolute retention time criterion for decachlorobiphenyl of 55 minutes is not generally followed and is an unnecessary restriction since method 1668 was developed without the use of electronic pressure control on the GC injection system, and there are GC performance criteria that can be met without this restriction. As a result, the RRT criteria of 1668 may not be applicable.

3) Although not clearly stated in method 1668, we maintain that each and every individual clean-up procedure is, by definition, performance-based and optional. There is not an expectation within the industry to follow exactly the descriptions of clean-ups in reference methods. Adaptations which meet or exceed the required performance criteria are therefore acceptable within the scope of each reference method. The reference method descriptions are intended as guidelines or templates available to help the laboratory to define effective in-house clean-up methods. The objective within the laboratory is to provide quality clean extracts to the instrument for analysis. Each individual clean-up is part of the laboratory's available tools in order to achieve this objective.

4) There are differences within the individual reference methods as to the precise spiking protocols for adding extraction standards and native spikes (for LCS, MS and MSD). To ensure consistency within the laboratory between HRMS methods, the PCB preparative method requires solid samples (including stack and ambient sorbants/filters) to be spiked in the soxhlet extractor from a nonane solution and waters are spiked before filtering from an acetone solution. .

5) Sub-sampling of solids and pre-extraction processing is done in a manner that minimizes potential for cross-contamination. These processes are designed around SW846 protocols rather than 1668 protocols. Solids are sub-sampled directly from the bottle as submitted to the laboratory wherever practical. If the sample is submitted such that homogenization in the bottle is impractical (eg. the bottle is too full or lumps cannot be broken down), then transferring the sample to a tray or another bottle maybe in order.

6) The concentration of labelled and native spiking solutions are not consistent with those listed in all of the reference methods. These concentrations are prepared at levels convenient and expedient for accurate laboratory processing.

7) Extraction and injection standard concentrations differ from 1668, in order to aid precise measurement and standardise volumes with other reference methods such as PCDD/F by 1613B.

8) Method 1668C recognizes the option to use the 209 congener mix as the daily calibration verification solution rather than the CS3. This document acknowledges and allows either calibration option for both 1668A and 1668C analytical approaches.

9) For method 1668C analysis, the OPR labelled recovery limits are the same as for the sample recovery limits in method 1668C. This represents a broader acceptance range for the OPR than is currently listed in method 1668C. However, the control of the native (i.e. non-labelled) recovery limits is the key item to demonstrate/monitor in the OPR. Furthermore, in the OPR performance, it is important to demonstrate these native controls are maintained within the same range of labelled recoveries as is observed in the sample data.

Table 3: Quantitation References for Native and Labeled CBs

Cl No.[1]	Congener No.[2,3]	RT Ref[4]	Quantitation Reference[5]
Native Compounds			
1	1	1L	1L
1	2	3L	1L/3L
1	3	3L	3L
2	4	4L	4L
2	10	4L	4L/15L
2	9	4L	4L/15L
2	7	4L	4L/15L
2	6	4L	4L/15L
2	5	4L	4L/15L
2	8	4L	4L/15L
2	14	15L	4L/15L
2	11	15L	4L/15L
2	13/12	15L	4L/15L
2	15	15L	15L
3	19	19L	19L
3	30/18	19L	19L/37L
3	17	19L	19L/37L
3	27	19L	19L/37L
3	24	19L	19L/37L
3	16	19L	19L/37L
3	32	19L	19L/37L
3	34	19L	19L/37L
3	23	19L	19L/37L
3	26/29	19L	19L/37L
3	25	37L	19L/37L
3	31	37L	19L/37L
3	28/20	37L	19L/37L
3	21/33	37L	19L/37L
3	22	37L	19L/37L
3	36	37L	19L/37L
3	39	37L	19L/37L
3	38	37L	19L/37L
3	35	37L	19L/37L
3	37	37L	37L
4	54	54L	54L
4	50/53	54L	54L/81L/77L
4	45/51	54L	54L/81L/77L
4	46	54L	54L/81L/77L
4	52	54L	54L/81L/77L
4	73	54L	54L/81L/77L
4	43	54L	54L/81L/77L
4	69/49	54L	54L/81L/77L
4	48	54L	54L/81L/77L
4	44/47/65	54L	54L/81L/77L
4	59/62/75	54L	54L/81L/77L
4	42	54L	54L/81L/77L
4	41/40/71	54L	54L/81L/77L
4	64	54L	54L/81L/77L
4	72	81L	54L/81L/77L
4	68	81L	54L/81L/77L

Cl No. [1]	Congener No. [2,3]	RT Ref [4]	Quantitation Reference [5]
4	57	81L	54L/81L/77L
4	58	81L	54L/81L/77L
4	67	81L	54L/81L/77L
4	63	81L	54L/81L/77L
4	61/70/74/76	81L	54L/81L/77L
4	66	81L	54L/81L/77L
4	55	81L	54L/81L/77L
4	56	81L	54L/81L/77L
4	60	81L	54L/81L/77L
4	80	81L	54L/81L/77L
4	79	81L	54L/81L/77L
4	78	81L	54L/81L/77L
4	81	81L	81L
4	77	77L	77L
5	104	104L	104L
5	96	104L	104L/123L/114L/118L
5	103	104L	104L/123L/114L/118L
5	94	104L	104L/123L/114L/118L
5	95	104L	104L/123L/114L/118L
5	95/100/93/102/98	104L	104L/123L/114L/118L
5	88/91	104L	104L/123L/114L/118L
5	84	104L	104L/123L/114L/118L
5	89	104L	104L/123L/114L/118L
5	121	104L	104L/123L/114L/118L
5	92	123L	104L/123L/114L/118L
5	113/90/101	104L	104L/123L/114L/118L
5	83/99	104L	104L/123L/114L/118L
5	112	104L	104L/123L/114L/118L
5	108/119/86/97/125/87	104L	104L/123L/114L/118L
5	117/116/85/110/115	104L	104L/123L/114L/118L
5	82	104L	104L/123L/114L/118L
5	111	104L	104L/123L/114L/118L
5	120	104L	104L/123L/114L/118L
5	107/124	104L	104L/123L/114L/118L
5	109	104L	104L/123L/114L/118L
5	123	123L	123L
5	106	123L	104L/123L/114L/118L
5	118	118L	118L
5	122	118L	104L/123L/114L/118L
5	114	114L	114L
5	105	105L	105L
5	127	105L	104L/123L/114L/118L
5	126	126L	126L
6	155	155L	155L
6	152	155L	155L/156L/157L/167L
6	150	155L	155L/156L/157L/167L
6	136	155L	155L/156L/157L/167L
6	145	155L	155L/156L/157L/167L
6	148	155L	155L/156L/157L/167L
6	151/135	135L	155L/156L/157L/167L
6	154	155L	155L/156L/157L/167L
6	144	155L	155L/156L/157L/167L
6	147/149	155L	155L/156L/157L/167L
6	134/143	155L	155L/156L/157L/167L

Cl No. [1]	Congener No. [2,3]	RT Ref [4]	Quantitation Reference [5]
6	139/140	155L	155L/156L/157L/167L
6	131	155L	155L/156L/157L/167L
6	142	155L	155L/156L/157L/167L
6	132	155L	155L/156L/157L/167L
6	133	155L	155L/156L/157L/167L
6	165	167L	155L/156L/157L/167L
6	146	167L	155L/156L/157L/167L
6	161	167L	155L/156L/157L/167L
6	153/168	167L	155L/156L/157L/167L
6	141	167L	155L/156L/157L/167L
6	130	167L	155L/156L/157L/167L
6	137/164	167L	155L/156L/157L/167L
6	138/163/129	167L	155L/156L/157L/167L
6	160	167L	155L/156L/157L/167L
6	158	167L	155L/156L/157L/167L
6	128/166	167L	155L/156L/157L/167L
6	159	167L	155L/156L/157L/167L
6	162	167L	155L/156L/157L/167L
6	167	167L	155L/156L/157L/167L
6	156/157	156L/157L	156L/157L
6	169	169L	169L
7	188	188L	188L
7	179	188L	188L/189L
7	184	188L	188L/189L
7	176	188L	188L/189L
7	186	188L	188L/189L
7	178	188L	188L/189L
7	175	188L	188L/189L
7	187	188L	188L/189L
7	182	188L	188L/189L
7	183	188L	188L/189L
7	185	188L	188L/189L
7	174	188L	188L/189L
7	177	188L	188L/189L
7	181	188L	188L/189L
7	171/173	188L	188L/189L
7	172	189L	188L/189L
7	192	189L	188L/189L
7	180/193	189L	188L/189L
7	191	189L	188L/189L
7	170	189L	188L/189L
7	190	189L	188L/189L
7	189	189L	189L
8	202	202L	202L
8	201	202L	202L/205L
8	204	202L	202L/205L
8	197	202L	202L/205L
8	200	202L	202L/205L
8	198/199	202L	202L/205L
8	196	205L	202L/205L
8	203	205L	202L/205L
8	195	205L	202L/205L
8	194	205L	202L/205L
8	205	205L	205L
9	208	208L	208L
9	207	208L	208L/206L
9	206	206L	206L
10	209	209L	209L

Cl No.[1]	Congener No.[2,3]	RT Ref[4]	Quantitation Reference[5]
Labelled Extraction Standards			
1	1L	9L	9L
1	3L	9L	9L
2	4L	9L	9L
2	15L	9L	9L
3	19L	9L	9L
3	37L	52L	52L
4	54L	52L	52L
4	81L	101L	101L
4	77L	101L	101L
5	104L	101L	101L
5	123L	101L	101L
5	118L	101L	101L
5	114L	101L	101L
5	105L	101L	101L
5	126L	101L	101L
6	155L	101L	101L
6	167L	138L	138L
6	156L/157L	157L	138L
6	169L	138L	138L
7	188L	138L	138L
7	189L	138L	138L
8	202L	138L	138L
8	205L	194L	194L
9	208L	194L	194L
9	206L	194L	194L
10	209L	194L	194L
Labelled clean-up standards			
3	28L	52L	52L
5	111L	101L	101L
7	178L	138L	138L
Labelled injection internal standards			
2	9L	138L	138L
4	52L	138L	138L
5	101L	138L	138L
6	138L	138L	
8	194L	138L	138L

1. Number of chlorines on congener.

2. Suffix "L" indicates labelled compound.

3. Multiple congeners in a box indicates a group of congeners that co-elute or may not be adequately resolved on a 30-m SPBOctyl column. Congeners included in the group are listed as the last entry in the box.

4. Retention time reference that is used to locate target congener.

5. Labelled congeners that form the quantitation reference. Areas from the exact m/z's of the congeners listed in the quantitation

Table 5: HRMS Instrumental Descriptor Parameters

Function and chlorine level	m/z	m/z type	m/z formula	Substance
	180.9888	QC	C4F7	PFK
Fn-1; Cl-1	188.0393	M	12C12 H9 35Cl	Cl-1 CB
	190.0363	M+2	12C12 H9 37Cl	Cl-1 CB
	200.0795	M	13C12 H9 35Cl	13C12 Cl-1 CB
	202.0766	M+2	13C12 H9 37Cl	13C12 Cl-1 CB
	204.9983	QC	C6F7	PFK
	218.9856	lock	C4 F9	PFK
	230.9850	QC	C5F9	PFK
	204.9883	QC	C6F7	PFK
	218.9856	QC	C4F9	PFK
Fn-2; Cl-2,3	222.0003	M	12C12 H8 35Cl2	Cl-2 PCB
	223.9974	M+2	12C12 H8 35Cl 37Cl	Cl-2 PCB
	225.9944	M+4	12C12 H8 37Cl2	Cl-2 PCB
	234.0406	M	13C12 H8 35Cl2	13C12 Cl-2 PCB
	236.0376	M+2	13C12 H8 35Cl 37 Cl	13C12 Cl-2 PCB
	242.9856	lock	C6 F9	PFK
	255.9613	M	12C12 H7 35Cl3	Cl-3 PCB
	257.9584	M+2	12C12 H7 35Cl2 37Cl	Cl-3 PCB
	268.0016	M	13C12 H7 35Cl3	13C12 Cl-3 PCB
	269.9986	M+2	13C12 H7 35Cl2 37Cl 13C12	13C12 Cl-3 PCB
Fn-3	255.9613	M	12C12 H7 35Cl3	Cl-3 PCB
Cl-3,4,5	257.9584	M+2	12C12 H7 35Cl2 37Cl	Cl-3 PCB
	268.0016	M	13C12 H7 35Cl3	13C12 Cl-3 PCB
	269.9986	M+2	13C12 H7 35Cl2 37Cl 13C12	13C12 Cl-3 PCB
	280.9825	lock	C6 F11	PFK
	289.9224	M	12C12 H6 35Cl4	Cl-4 PCB
	291.9194	M+2	12C12 H6 35Cl3 37Cl	Cl-4 PCB
	301.9626	M	13C12 H6 35Cl4	13C12 Cl-4 PCB
	303.9597	M+2	13C12 H6 35Cl3 37Cl	13C12 Cl-4 PCB
	323.8834	M	12C12 H5 35Cl5	Cl-5 PCB
	325.8804	M+2 1	2C12 H5 35Cl4 37Cl	Cl-5 PCB
	327.8775	M+4	12C12 H5 35Cl3 37Cl2	Cl-5 PCB
	337.9207	M+2	13C12 H5 35Cl4 37Cl	13C12 Cl-5 PCB
	339.9178	M+4	13C12 H5 35Cl3 37Cl2	13C12 Cl-5 PCB
	280.9824		C6 F11	PFK
Fn-4	289.9224	M	12C12 H6 35Cl4	Cl-4 PCB
Cl-4,5,6	291.9194	M+2	12C12 H6 35Cl3 37Cl	Cl-4 PCB
	293.9165	M+4	12C12 H6 35Cl2 37Cl2	Cl-4 PCB
	301.9626	M+2	13C12 H6 35Cl3 37Cl	13C12 Cl-4 PCB
	303.9597	M+4	13C12 H6 35Cl2	13C12 Cl-4 PCB
	323.8834	M	12C12 H5 35Cl5	Cl-5 PCB
	325.8804	M+2	12C12 H5 35Cl4 37Cl	Cl-5 PCB
	327.8775	M+4	12C12 H5 35Cl3 37Cl2	Cl-5 PCB
	330.9792	lock	C7 F15	PFK
	337.9207	M+2	13C12 H5 35Cl4 37Cl 13C12	Cl-5 PCB
	339.9178	M+4	13C12 H5 35Cl3 37Cl2	13C12 Cl-5 PCB
	359.8415	M+2	13C12 H4 35Cl5 37Cl	Cl-6 PCB
	361.8385	M+4	13C12 H4 35Cl4 37Cl2	Cl-6 PCB
	363.8356	M+6	13C12 H4 35Cl3 37Cl2	Cl-6 PCB
	371.8817	M+2	13C12 H4 35Cl5 37Cl	13C12 Cl-6 PCB
	373.8788	M+4	13C12 H4 35Cl4 37Cl2	13C12 Cl-6 PCB

Function and chlorine level	m/z	m/z type	m/z formula	Substance
Fn-5	323.8834	M	12C12 H5 35Cl5	Cl-5 PCB
Cl-5,6,7	325.8804	M+2	12C12 H5 35Cl4 37Cl	Cl-5 PCB
	327.8775	M+4	12C12 H5 35Cl3 37Cl2	Cl-5 PCB
	337.9207	M+2	13C12 H5 35Cl4 37Cl	13C12 Cl-5 PCB
	339.9178	M+4	13C12 H5 35Cl3 37Cl2	13C12 Cl-5 PCB
	354.9792	lock	C9 F13	PFK
	359.8415	M+2	12C12 H4 35Cl5 37Cl	Cl-6 PCB
	361.8385	M+4	12C12 H4 35Cl4 37Cl2	Cl-6 PCB
	363.8356	M+6	12C12 H4 35Cl3 37Cl3	Cl-6 PCB
	371.8817	M+2	13C12 H4 35Cl5 37Cl	13C12 Cl-6 PCB
	373.8788	M+4	13C12 H4 35Cl4 37Cl2	13C12 Cl-6 PCB
	393.8025	M+2	12C12 H3 35Cl6 37Cl	Cl-7 PCB
	395.7995	M+4	12C12 H3 35Cl5 37Cl2	Cl-7 PCB
	397.7966	M+6	12C12 H3 35Cl4 37Cl3	Cl-7 PCB
	405.8428	M+2	13C12 H3 35Cl6 37Cl	13C12 Cl-7 PCB
	407.8398	M+4	13C12 H3 35Cl5 37Cl2	13C12 Cl-7 PCB
	427.7635	M+2	12C12 H2 35Cl7 37Cl	Cl-8 PCB
	429.7606	M+4	12C12 H2 35Cl6 37Cl2	Cl-8 PCB
	431.7576	M+6	12C12 H2 35Cl5 37Cl3	Cl-8 PCB
	439.8038	M+2	13C12 H2 35Cl7 37Cl	13C12 Cl-8 PCB
	441.8008	M+4	13C12 H2 35Cl6 37Cl2	13C12 Cl-8 PCB
Fn-6	393.8025	M+2	12C12 H3 35Cl6 37Cl	Cl-7 PCB
Cl-7,8,9,10	395.7995	M+4	12C12 H3 35Cl5 37Cl2	Cl-7 PCB
	397.7966	M+6	12C12 H3 35Cl4 37Cl3	Cl-7 PCB
	405.8428	M+2	13C12 H3 35Cl6 37Cl 13C12	Cl-7 PCB
	407.8398	M+4	13C12 H3 35Cl5 37Cl2	13C12 Cl-7 PCB
	427.7635	M+2	12C12 H2 35Cl7 37Cl	Cl-8 PCB
	429.7606	M+4	12C12 H2 35Cl6 37Cl2	Cl-8 PCB
	431.7576	M+6	12C12 H2 35Cl5 37Cl3	Cl-8 PCB
	439.8038	M+2	13C12 H2 35Cl7 37Cl	13C12 Cl-8 PCB
	441.8008	M+4	13C12 H2 35Cl6 37Cl2	13C12 Cl-8 PCB
	442.9728	QC	C10 F13	PFK
	454.9728	lock	C11 F13	PFK
	461.7246	M+2	12C12 H1 35Cl8 37Cl	Cl-9 PCB
	463.7216	M+4	12C12 H1 35Cl7 37Cl2	Cl-9 PCB
	465.7187	M+6	12C12 H1 35Cl6 37Cl3	Cl-9 PCB
	473.7648	M+2	13C12 H1 35Cl8 37Cl	13C12 Cl-9 PCB
	475.7619	M+4	13C12 H1 35Cl7 37Cl2	13C12 Cl-9 PCB
	495.6856	M+2	13C12 H4 35Cl9 37Cl	Cl-10 PCB
Fn-7	497.6826	M+4	12C12 35Cl8 37Cl2	Cl-10 PCB
	499.6797	M+6	12C12 35Cl7 37Cl3	Cl-10 PCB
	509.7229	M+4	13C12 H4 35Cl8 37Cl2	13C12 Cl-10 PCB
	511.7199	M+6	13C12 H4 35Cl8 37Cl4	13C12 Cl-10 PCB
	516.9697	lock	C13F19	PFK

Data Calculations:

a) Analyte Concentrations:

The relative response factor of each target relative to the standard against which it is to be calculated is determined using the area responses of both quantification ions via equation 9.1.
In cases where a native target is calculated against an exact labelled analogue, the quantification will be considered to be by isotope dilution. In other cases, the quantification will be considered to be by internal standard.

$$RRF = \frac{(A1_t + A2_t)\ C_s}{(A1_s + A2_s)\ C_t} \qquad \text{Equ. 9.1}$$

Where,
$A1_t + A2_t$ = The areas of the two quantification ions for the target analyte
$A1_s + A2_s$ = The areas of the two quantification ions for the labelled compound against which the target analyte will be calculated.
C_t = The concentration in the calibration standard of the target analyte.
C_s = The concentration in the calibration standard of the labelled compound against which the target will be calculated.

For all analytes to be quantified and from the initial calibration series of standard injections, a table of RRFs is prepared. The relative standard deviation (%RSD, or the coefficient of variance) is checked to confirm that the appropriate method criteria has been met as listed in Table 3. The average of the five or six levels of standard for each analyte, RRF_{av} is applied for quantification of samples according to Equations 9.2 and 9.3 below.

$$\text{Amount in sample (pg)} = \frac{(A1_n + A2_n)\ Q_l}{(A1_l + A2_l)\ (RRF_{av})} \qquad \text{Equ. 9.2}$$

$$\text{Concentration in sample (pg/g or pg/l)} = \frac{(A1_n + A2_n)\ Q_l}{(A1_l + A2_l)\ (RRF_{av})\ (W_s)} \qquad \text{Equ. 9.3}$$

Where,

Q_l = The amount (pg) of labelled compound added to the sample
W_s = The weight (g) or volume (l) of sample

b) Extraction, Clean-up, and Sampling Standard Recovery Calculation:

The extraction, clean-up, and sampling standard recoveries are determined by Equation 9.4 below.

% Recovery = (Amount in sample)/(Amount added to sample) X 100 Equ. 9.4

c) Estimated Detection Limit

$$EDL = \frac{2.5 \times H_x \times Q_{es}}{H_{es} \times W \times RFF_{av}} \qquad \text{Equ. 9.5}$$

Where,
EDL = estimated detection limit for homologous PCB
H_x = sum of the height of the noise level for each quantification ions for the unlabelled PCB.
H_{es} = Sum of the heights of responses of both quantification ions for the labelled extraction standard.
W = weight of volume of sample
RRF_{av} = average relative response factor
Q_{es} = Amount of extraction standard added

Chromatogram Annotation Codes

All manually integrated peaks are expanded and reprinted with the following annotations:

* Analyst Initials	AA
* Date	YYMMDD
* integration code	CC

The Syntax is:	Example:
AAYYMMDDCC	SK111220MB

Code	Mnemonic	Description
MB	Manual Baseline	The peak was manually integrated because the initial baseline was determined incorrectly by the software
MS	Manual Split	The peak was manually integrated because the peak was incorrectly or not split by the software
MJ/MC	Manual Join/Manual Combine	The peak was manually integrated because the peak was split by the software and the peak should be integrated as a single peak
MA	Manual Add	The peak was manually integrated because the signal:noise ratio was judged to be >2.5
MD	Manual Delete	The peak was excluded because the signal:noise ratio was judged to be <2.5
MX	Manual Exclude	The peak was excluded due to an interference
NH	Noise Height	The noise height for Estimated Detection Limit calculation was chosen by the analyst (automated noise height not appropriate)
MT	Manual Time	The peak retention time was manually chosen

The following explanatory annotation codes may appear on the chromatograms of peaks that have been reviewed:

Code	Mnemonic	Description
+	Detected Peak	A peak was detected at this mass and retention time that was above 2.5:1 signal to noise
<	Below Detection Limit	The signal at this mass and retention time was below 2.5:1 signal to noise
EMPC	Estimated Maximum Possible Concentration	The signal at this mass and retention time is an interference such that the target compound could not be confirmed
X-RT	Not Detected due to Retention Time non-conformance	The signal at this retention time could not be used to positively identify the target compound because of retention time non-conformance (apex of quantification and confirmation ions do not maximize within the same two seconds, or the retention time of the peak does not fall within the expected range with respect to its labeled analogue)
X-LOC	Not Detected due to interference from a higher level of chlorination	The signal at this retention time is attributable to a fragment from a co-eluting compound at a higher level of chlorination, and cannot be used to positively identify the target. The result is expressed as an Estimated Maximum Possible Concentration (EMPC)
X-DPE	Not Detected due to diphenyl ether interference	The signal at this retention time is attributable to interference from a chlorinated diphenyl ether, and cannot be used to positively identify the target. The result is expressed as an Estimated Maximum Possible Concentration (EMPC)
X-IF	Not Detected due to interference	The signal at this retention time is attributable to a co-eluting interference, and cannot be used to positively identify the target. The result is expressed as an Estimated Maximum Possible Concentration (EMPC)

1435 Norjohn Court, Unit 1, Burlington, ON, Canada L7L 0E6

SVOC DATA PACKAGE

SECTION 4: CALIBRATION DATA

Including:

for Multi-Point Calibration(s)

- Multi-Point Calibration Tables
- Individual Quantitation Reports

for Continuing Calibration(s)

- Individual Quantitation Reports

ALS Life Sciences

Calibration Summary Report

Calibration Level	Filename	Run Date
CS-1	5-201202A03	02-Dec-2020 11:14
CS-2	5-201202A02	02-Dec-2020 10:34
CS-3	5-201202A01	02-Dec-2020 09:37
CS-4	5-201202A07	02-Dec-2020 12:39
CS-5	5-201202A08	02-Dec-2020 13:21

Approved: *N Ashtari*
--e-signature--
11-Nov-2021

Relative Response Factors

Target Analytes	CS-1	CS-2	CS-3	CS-4	CS-5	Mean	% RSD
PCB-001	1.081	1.118	1.192	1.206	1.122	1.144	5%
PCB-003	1.143	1.149	1.201	1.234	1.251	1.196	4%
PCB-004	0.842	0.905	0.893	0.897	0.916	0.891	3%
PCB-015	0.977	1.048	1.108	1.166	1.187	1.097	8%
PCB-019	1.050	1.149	1.197	1.208	1.211	1.163	6%
PCB-037	1.042	1.037	1.139	1.158	1.193	1.114	6%
PCB-054	1.002	1.031	1.085	1.106	1.115	1.068	5%
PCB-081	1.079	1.132	1.262	1.280	1.306	1.212	8%
PCB-077	1.012	1.066	1.229	1.239	1.261	1.161	10%
PCB-104	1.053	1.109	1.176	1.197	1.230	1.153	6%
PCB-123	0.979	1.055	1.145	1.148	1.182	1.102	8%
PCB-118	1.075	1.084	1.208	1.237	1.251	1.171	7%
PCB-114	1.176	1.173	1.254	1.281	1.265	1.230	4%
PCB-105	1.089	1.151	1.229	1.255	1.302	1.205	7%
PCB-126	1.058	1.115	1.258	1.283	1.345	1.212	10%
PCB-155	1.006	1.006	1.057	1.089	1.130	1.058	5%
PCB-167	0.985	1.057	1.147	1.163	1.166	1.104	7%
PCB-156/157	1.038	1.084	1.179	1.199	1.209	1.142	7%
PCB-169	0.915	1.054	1.145	1.167	1.176	1.091	10%
PCB-188	0.830	0.874	0.984	1.010	1.019	0.943	9%
PCB-189	0.925	0.957	1.032	1.056	1.075	1.009	6%
PCB-202	1.020	1.050	1.078	1.115	1.125	1.078	4%
PCB-205	0.875	0.843	0.939	0.958	0.962	0.915	6%
PCB-208	1.170	1.154	1.251	1.269	1.262	1.221	4%
PCB-206	1.173	1.174	1.212	1.240	1.253	1.210	3%
PCB-209	1.169	0.976	0.968	0.970	0.978	1.012	9%
Extraction Standards							
13C12-PCB-001	0.981	1.007	0.979	1.074	1.335	1.075	14%
13C12-PCB-003	0.893	0.889	0.882	0.937	1.178	0.956	13%
13C12-PCB-004	0.631	0.632	0.635	0.659	0.806	0.673	11%
13C12-PCB-015	0.736	0.782	0.771	0.833	1.076	0.840	16%
13C12-PCB-019	0.456	0.476	0.480	0.494	0.610	0.503	12%
13C12-PCB-037	1.311	1.289	1.277	1.467	1.908	1.450	18%
13C12-PCB-054	1.533	1.598	1.595	1.691	2.114	1.706	14%
13C12-PCB-081	1.437	1.430	1.433	1.530	1.916	1.549	14%
13C12-PCB-077	1.472	1.453	1.455	1.558	1.941	1.576	13%
13C12-PCB-104	1.797	1.815	1.904	1.928	2.271	1.943	10%
13C12-PCB-123	1.263	1.247	1.259	1.323	1.691	1.357	14%
13C12-PCB-118	1.322	1.314	1.329	1.382	1.773	1.424	14%
13C12-PCB-114	1.188	1.190	1.199	1.247	1.667	1.298	16%
13C12-PCB-105	1.193	1.201	1.219	1.254	1.557	1.285	12%
13C12-PCB-126	1.067	1.079	1.058	1.129	1.494	1.165	16%
13C12-PCB-155	1.684	1.727	1.753	1.813	2.252	1.846	13%
13C12-PCB-167	1.195	1.173	1.177	1.243	1.550	1.268	13%
13C12-PCB-156/157	1.122	1.105	1.118	1.197	1.570	1.222	16%
13C12-PCB-169	1.114	1.070	1.053	1.099	1.405	1.148	13%
13C12-PCB-188	1.386	1.361	1.397	1.461	1.833	1.488	13%
13C12-PCB-189	1.127	1.121	1.066	1.112	1.382	1.162	11%
13C12-PCB-202	1.064	1.051	1.098	1.118	1.418	1.150	13%
13C12-PCB-205	1.417	1.429	1.421	1.482	1.695	1.489	8%
13C12-PCB-208	1.127	1.118	1.136	1.162	1.393	1.187	10%
13C12-PCB-206	0.797	0.799	0.793	0.825	0.944	0.832	8%
13C12-PCB-209	1.292	1.272	1.267	1.319	1.486	1.327	7%
Cleanup Standards							
13C12-PCB-028	1.735	1.765	1.711	1.778	1.829	1.764	3%
13C12-PCB-111	1.122	1.138	1.140	1.124	1.164	1.138	1%
13C12-PCB-178	0.833	0.841	0.843	0.830	0.834	0.836	1%

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Calibration Report

ALS Sample ID **H5-20-CS1-1035**
Analysis Method EPA 1668C
Analysis Type Calibration

Filename	Inst #	Column	Run Date	Approved:	*N Ashtari*
5-201202A03	HRMS-5	SPBOCTYL25600-01	02-Dec-2020 11:14		--e-signature--
					11-Nov-2021

Target Analytes	Ret. Time	Ion Ratio	Concentration ng/mL	Response	RRF
PCB-001	8.95	3.27	1.00	2.29E+04	1.081
PCB-003	10.48	3.32	1.00	2.21E+04	1.143
PCB-004	10.63	1.71	1.00	1.15E+04	0.842
PCB-015	14.32	1.50	1.00	1.55E+04	0.977
PCB-019	12.62	1.06	1.00	1.04E+04	1.050
PCB-037	18.24	1.15	1.00	1.14E+04	1.042
PCB-054	14.46	0.81	1.00	1.28E+04	1.002
PCB-081	21.81	0.83	1.00	8.50E+03	1.079
PCB-077	22.11	0.71	1.00	8.17E+03	1.012
PCB-104	17.5	1.49	1.00	1.04E+04	1.053
PCB-123	23.08	1.78	1.00	6.78E+03	0.979
PCB-118	23.25	1.46	1.00	7.79E+03	1.075
PCB-114	23.55	1.49	1.00	7.67E+03	1.176
PCB-105	23.91	1.53	1.00	7.13E+03	1.089
PCB-126	25.51	1.64	1.00	6.19E+03	1.058
PCB-155	20.48	1.24	1.00	9.29E+03	1.006
PCB-167	26.38	1.20	1.00	6.07E+03	0.985
PCB-156/157	27.02	1.17	2.00	1.20E+04	1.038
PCB-169	28.69	1.19	1.00	5.26E+03	0.915
PCB-188	23.48	1.01	1.00	5.94E+03	0.830
PCB-189	29.95	1.13	1.00	5.38E+03	0.925
PCB-202	26.26	0.86	1.00	5.60E+03	1.020
PCB-205	31.33	0.86	1.00	4.37E+03	0.875
PCB-208	29.67	0.87	1.00	4.64E+03	1.170
PCB-206	32.37	0.70	1.00	3.29E+03	1.173
PCB-209	33.5	1.21	1.00	5.32E+03	1.169
Extraction Standards					
13C12-PCB-001	8.95	3.01	100.00	2.12E+06	0.981
13C12-PCB-003	10.47	3.05	100.00	1.93E+06	0.893
13C12-PCB-004	10.62	1.59	100.00	1.37E+06	0.631
13C12-PCB-015	14.3	1.63	100.00	1.59E+06	0.736
13C12-PCB-019	12.61	1.03	100.00	9.86E+05	0.456
13C12-PCB-037	18.24	1.06	100.00	1.10E+06	1.311
13C12-PCB-054	14.45	0.78	100.00	1.28E+06	1.533
13C12-PCB-081	21.8	0.80	100.00	7.88E+05	1.437
13C12-PCB-077	22.1	0.81	100.00	8.07E+05	1.472
13C12-PCB-104	17.49	1.57	100.00	9.86E+05	1.797
13C12-PCB-123	23.07	1.58	100.00	6.93E+05	1.263
13C12-PCB-118	23.24	1.65	100.00	7.25E+05	1.322
13C12-PCB-114	23.54	1.67	100.00	6.52E+05	1.188
13C12-PCB-105	23.9	1.66	100.00	6.54E+05	1.193
13C12-PCB-126	25.5	1.65	100.00	5.85E+05	1.067
13C12-PCB-155	20.48	1.24	100.00	9.24E+05	1.684
13C12-PCB-167	26.37	1.29	100.00	6.16E+05	1.195
13C12-PCB-156/157	27.01	1.31	200.00	1.16E+06	1.122
13C12-PCB-169	28.67	1.30	100.00	5.75E+05	1.114
13C12-PCB-188	23.47	1.04	100.00	7.15E+05	1.386
13C12-PCB-189	29.92	1.07	100.00	5.82E+05	1.127
13C12-PCB-202	26.23	0.89	100.00	5.49E+05	1.064
13C12-PCB-205	31.3	0.89	100.00	4.99E+05	1.417
13C12-PCB-208	29.65	0.79	100.00	3.97E+05	1.127
13C12-PCB-206	32.36	0.81	100.00	2.81E+05	0.797
13C12-PCB-209	33.48	1.21	100.00	4.55E+05	1.292
Cleanup Standards					
13C12-PCB-028	15.98	1.06	100.00	1.45E+06	1.735
13C12-PCB-111	22	1.62	100.00	6.15E+05	1.122
13C12-PCB-178	25.04	1.04	100.00	4.30E+05	0.833
Injection Standards					
13C12-PCB-9	11.88	1.56	100.00	2.16E+06	-
13C12-PCB-52	16.97	0.82	100.00	8.36E+05	-
13C12-PCB-101	20.61	1.64	100.00	5.49E+05	-
13C12-PCB-138	24.84	1.32	100.00	5.16E+05	-
13C12-PCB-194	31.02	0.89	100.00	3.52E+05	-

ALS Life Sciences

Calibration Report

ALS Sample ID **H5-20-CS2-1035**
Analysis Method EPA 1668C
Analysis Type Calibration

Filename	Inst #	Column	Run Date	Approved:	*N Ashtari*
5-201202A02	HRMS-5	SPBOCTYL25600-01	02-Dec-2020 10:34		--e-signature--
					11-Nov-2021

Target Analytes	Ret. Time	Ion Ratio	Concentration ng/mL	Response	RRF
PCB-001	8.97	3.23	5.00	1.14E+05	1.118
PCB-003	10.49	3.32	5.00	1.03E+05	1.149
PCB-004	10.65	1.26	5.00	5.78E+04	0.905
PCB-015	14.32	1.58	5.00	8.30E+04	1.048
PCB-019	12.64	1.07	5.00	5.53E+04	1.149
PCB-037	18.27	1.08	5.00	5.48E+04	1.037
PCB-054	14.49	0.80	5.00	6.76E+04	1.031
PCB-081	21.83	0.80	5.00	4.42E+04	1.132
PCB-077	22.13	0.79	5.00	4.23E+04	1.066
PCB-104	17.52	1.61	5.00	5.50E+04	1.109
PCB-123	23.1	1.64	5.00	3.59E+04	1.055
PCB-118	23.27	1.68	5.00	3.89E+04	1.084
PCB-114	23.58	1.58	5.00	3.81E+04	1.173
PCB-105	23.93	1.64	5.00	3.78E+04	1.151
PCB-126	25.52	1.63	5.00	3.29E+04	1.115
PCB-155	20.5	1.22	5.00	4.75E+04	1.006
PCB-167	26.4	1.19	5.00	3.27E+04	1.057
PCB-156/157	27.03	1.19	10.00	6.32E+04	1.084
PCB-169	28.7	1.18	5.00	2.98E+04	1.054
PCB-188	23.5	1.04	5.00	3.14E+04	0.874
PCB-189	29.96	1.00	5.00	2.83E+04	0.957
PCB-202	26.27	0.85	5.00	2.91E+04	1.050
PCB-205	31.34	0.93	5.00	2.16E+04	0.843
PCB-208	29.68	0.79	5.00	2.31E+04	1.154
PCB-206	32.4	0.82	5.00	1.68E+04	1.174
PCB-209	33.53	1.18	5.00	2.22E+04	0.976
Extraction Standards					
13C12-PCB-001	8.97	3.01	100.00	2.04E+06	1.007
13C12-PCB-003	10.49	3.07	100.00	1.80E+06	0.889
13C12-PCB-004	10.63	1.58	100.00	1.28E+06	0.632
13C12-PCB-015	14.32	1.61	100.00	1.58E+06	0.782
13C12-PCB-019	12.62	1.04	100.00	9.63E+05	0.476
13C12-PCB-037	18.26	1.06	100.00	1.06E+06	1.289
13C12-PCB-054	14.47	0.79	100.00	1.31E+06	1.598
13C12-PCB-081	21.82	0.80	100.00	7.81E+05	1.430
13C12-PCB-077	22.12	0.80	100.00	7.94E+05	1.453
13C12-PCB-104	17.51	1.58	100.00	9.92E+05	1.815
13C12-PCB-123	23.09	1.58	100.00	6.81E+05	1.247
13C12-PCB-118	23.26	1.59	100.00	7.18E+05	1.314
13C12-PCB-114	23.56	1.58	100.00	6.50E+05	1.190
13C12-PCB-105	23.91	1.61	100.00	6.56E+05	1.201
13C12-PCB-126	25.52	1.64	100.00	5.90E+05	1.079
13C12-PCB-155	20.49	1.24	100.00	9.44E+05	1.727
13C12-PCB-167	26.39	1.30	100.00	6.19E+05	1.173
13C12-PCB-156/157	27.02	1.29	200.00	1.17E+06	1.105
13C12-PCB-169	28.69	1.33	100.00	5.65E+05	1.070
13C12-PCB-188	23.49	1.03	100.00	7.19E+05	1.361
13C12-PCB-189	29.95	1.06	100.00	5.92E+05	1.121
13C12-PCB-202	26.26	0.91	100.00	5.55E+05	1.051
13C12-PCB-205	31.33	0.88	100.00	5.11E+05	1.429
13C12-PCB-208	29.67	0.80	100.00	4.00E+05	1.118
13C12-PCB-206	32.39	0.80	100.00	2.86E+05	0.799
13C12-PCB-209	33.5	1.21	100.00	4.55E+05	1.272
Cleanup Standards					
13C12-PCB-028	16	1.04	100.00	1.45E+06	1.765
13C12-PCB-111	22.02	1.65	100.00	6.22E+05	1.138
13C12-PCB-178	25.06	1.04	100.00	4.44E+05	0.841
Injection Standards					
13C12-PCB-9	11.9	1.55	100.00	2.02E+06	-
13C12-PCB-52	16.99	0.82	100.00	8.21E+05	-
13C12-PCB-101	20.64	1.63	100.00	5.46E+05	-
13C12-PCB-138	24.87	1.31	100.00	5.28E+05	-
13C12-PCB-194	31.05	0.88	100.00	3.58E+05	-

ALS Life Sciences

Calibration Report

ALS Sample ID **H5-20-CS3-1035**
Analysis Method EPA 1668C
Analysis Type Calibration

Filename	Inst #	Column	Run Date	Approved:	*N Ashtari*
5-201202A01	HRMS-5	SPBOCTYL25600-01	02-Dec-2020 09:37		--e-signature--
					11-Nov-2021

Target Analytes	Ret. Time	Ion Ratio	Concentration ng/mL	Response	RRF
PCB-001	8.97	3.24	50.00	1.18E+06	1.192
PCB-003	10.49	3.25	50.00	1.08E+06	1.201
PCB-004	10.65	1.46	50.00	5.76E+05	0.893
PCB-015	14.32	1.55	50.00	8.66E+05	1.108
PCB-019	12.64	1.06	50.00	5.83E+05	1.197
PCB-037	18.26	1.06	50.00	5.88E+05	1.139
PCB-054	14.48	0.80	50.00	7.00E+05	1.085
PCB-081	21.83	0.79	50.00	4.64E+05	1.262
PCB-077	22.13	0.79	50.00	4.59E+05	1.229
PCB-104	17.52	1.56	50.00	5.75E+05	1.176
PCB-123	23.1	1.57	50.00	3.70E+05	1.145
PCB-118	23.27	1.61	50.00	4.12E+05	1.208
PCB-114	23.58	1.61	50.00	3.86E+05	1.254
PCB-105	23.93	1.61	50.00	3.85E+05	1.229
PCB-126	25.52	1.57	50.00	3.42E+05	1.258
PCB-155	20.5	1.25	50.00	4.76E+05	1.057
PCB-167	26.4	1.24	50.00	3.31E+05	1.147
PCB-156/157	27.03	1.23	100.00	6.46E+05	1.179
PCB-169	28.7	1.24	50.00	2.96E+05	1.145
PCB-188	23.5	1.02	50.00	3.37E+05	0.984
PCB-189	29.95	1.03	50.00	2.70E+05	1.032
PCB-202	26.27	0.90	50.00	2.90E+05	1.078
PCB-205	31.34	0.92	50.00	2.11E+05	0.939
PCB-208	29.68	0.81	50.00	2.25E+05	1.251
PCB-206	32.4	0.80	50.00	1.52E+05	1.212
PCB-209	33.53	1.21	50.00	1.94E+05	0.968
Extraction Standards					
13C12-PCB-001	8.95	3.06	100.00	1.99E+06	0.979
13C12-PCB-003	10.48	3.01	100.00	1.79E+06	0.882
13C12-PCB-004	10.63	1.57	100.00	1.29E+06	0.635
13C12-PCB-015	14.32	1.66	100.00	1.56E+06	0.771
13C12-PCB-019	12.62	1.06	100.00	9.74E+05	0.480
13C12-PCB-037	18.25	1.09	100.00	1.03E+06	1.277
13C12-PCB-054	14.47	0.80	100.00	1.29E+06	1.595
13C12-PCB-081	21.82	0.83	100.00	7.36E+05	1.433
13C12-PCB-077	22.12	0.80	100.00	7.47E+05	1.455
13C12-PCB-104	17.51	1.55	100.00	9.77E+05	1.904
13C12-PCB-123	23.09	1.65	100.00	6.47E+05	1.259
13C12-PCB-118	23.26	1.63	100.00	6.83E+05	1.329
13C12-PCB-114	23.56	1.65	100.00	6.16E+05	1.199
13C12-PCB-105	23.91	1.64	100.00	6.26E+05	1.219
13C12-PCB-126	25.51	1.59	100.00	5.43E+05	1.058
13C12-PCB-155	20.49	1.24	100.00	9.00E+05	1.753
13C12-PCB-167	26.39	1.31	100.00	5.77E+05	1.177
13C12-PCB-156/157	27.02	1.31	200.00	1.10E+06	1.118
13C12-PCB-169	28.69	1.31	100.00	5.17E+05	1.053
13C12-PCB-188	23.49	1.03	100.00	6.85E+05	1.397
13C12-PCB-189	29.95	1.07	100.00	5.23E+05	1.066
13C12-PCB-202	26.26	0.90	100.00	5.39E+05	1.098
13C12-PCB-205	31.33	0.88	100.00	4.50E+05	1.421
13C12-PCB-208	29.67	0.80	100.00	3.60E+05	1.136
13C12-PCB-206	32.39	0.78	100.00	2.51E+05	0.793
13C12-PCB-209	33.5	1.21	100.00	4.01E+05	1.267
Cleanup Standards					
13C12-PCB-028	16	1.05	100.00	1.38E+06	1.711
13C12-PCB-111	22.02	1.64	100.00	5.85E+05	1.140
13C12-PCB-178	25.06	1.03	100.00	4.14E+05	0.843
Injection Standards					
13C12-PCB-9	11.9	1.55	100.00	2.03E+06	-
13C12-PCB-52	16.99	0.82	100.00	8.09E+05	-
13C12-PCB-101	20.64	1.64	100.00	5.13E+05	-
13C12-PCB-138	24.87	1.29	100.00	4.90E+05	-
13C12-PCB-194	31.05	0.86	100.00	3.17E+05	-

ALS Life Sciences

Calibration Report

ALS Sample ID **H5-20-CS4-1035**
Analysis Method EPA 1668C
Analysis Type Calibration

Filename	Inst #	Column	Run Date	Approved:	*N Ashtari*
5-201202A07	HRMS-5	SPBOCTYL25600-01	02-Dec-2020 12:39		--e-signature--
					11-Nov-2021

Target Analytes	Ret. Time	Ion Ratio	Concentration ng/mL	Response	RRF
PCB-001	8.95	3.24	400.00	1.04E+07	1.206
PCB-003	10.47	3.25	400.00	9.32E+06	1.234
PCB-004	10.63	1.49	400.00	4.77E+06	0.897
PCB-015	14.3	1.56	400.00	7.84E+06	1.166
PCB-019	12.62	1.05	400.00	4.81E+06	1.208
PCB-037	18.23	1.06	400.00	5.36E+06	1.158
PCB-054	14.47	0.79	400.00	5.90E+06	1.106
PCB-081	21.8	0.79	400.00	4.07E+06	1.280
PCB-077	22.1	0.79	400.00	4.02E+06	1.239
PCB-104	17.51	1.55	400.00	4.80E+06	1.197
PCB-123	23.08	1.57	400.00	3.16E+06	1.148
PCB-118	23.25	1.58	400.00	3.55E+06	1.237
PCB-114	23.55	1.57	400.00	3.32E+06	1.281
PCB-105	23.91	1.56	400.00	3.27E+06	1.255
PCB-126	25.5	1.59	400.00	3.01E+06	1.283
PCB-155	20.49	1.25	400.00	4.11E+06	1.089
PCB-167	26.38	1.22	400.00	2.77E+06	1.163
PCB-156/157	27.02	1.24	800.00	5.51E+06	1.199
PCB-169	28.67	1.23	400.00	2.46E+06	1.167
PCB-188	23.49	1.02	400.00	2.83E+06	1.010
PCB-189	29.95	1.03	400.00	2.25E+06	1.056
PCB-202	26.26	0.89	400.00	2.39E+06	1.115
PCB-205	31.33	0.90	400.00	1.75E+06	0.958
PCB-208	29.68	0.81	400.00	1.81E+06	1.269
PCB-206	32.4	0.81	400.00	1.26E+06	1.240
PCB-209	33.51	1.19	400.00	1.57E+06	0.970
Extraction Standards					
13C12-PCB-001	8.94	2.99	100.00	2.17E+06	1.074
13C12-PCB-003	10.47	3.05	100.00	1.89E+06	0.937
13C12-PCB-004	10.62	1.58	100.00	1.33E+06	0.659
13C12-PCB-015	14.29	1.59	100.00	1.68E+06	0.833
13C12-PCB-019	12.61	1.04	100.00	9.96E+05	0.494
13C12-PCB-037	18.22	1.08	100.00	1.16E+06	1.467
13C12-PCB-054	14.45	0.79	100.00	1.33E+06	1.691
13C12-PCB-081	21.79	0.82	100.00	7.95E+05	1.530
13C12-PCB-077	22.09	0.81	100.00	8.10E+05	1.558
13C12-PCB-104	17.49	1.57	100.00	1.00E+06	1.928
13C12-PCB-123	23.07	1.59	100.00	6.88E+05	1.323
13C12-PCB-118	23.24	1.62	100.00	7.19E+05	1.382
13C12-PCB-114	23.54	1.64	100.00	6.49E+05	1.247
13C12-PCB-105	23.9	1.64	100.00	6.52E+05	1.254
13C12-PCB-126	25.48	1.64	100.00	5.87E+05	1.129
13C12-PCB-155	20.48	1.25	100.00	9.43E+05	1.813
13C12-PCB-167	26.37	1.31	100.00	5.96E+05	1.243
13C12-PCB-156/157	27.01	1.31	200.00	1.15E+06	1.197
13C12-PCB-169	28.67	1.31	100.00	5.27E+05	1.099
13C12-PCB-188	23.48	1.03	100.00	7.01E+05	1.461
13C12-PCB-189	29.93	1.06	100.00	5.34E+05	1.112
13C12-PCB-202	26.25	0.90	100.00	5.36E+05	1.118
13C12-PCB-205	31.31	0.88	100.00	4.56E+05	1.482
13C12-PCB-208	29.67	0.80	100.00	3.57E+05	1.162
13C12-PCB-206	32.37	0.79	100.00	2.54E+05	0.825
13C12-PCB-209	33.5	1.21	100.00	4.06E+05	1.319
Cleanup Standards					
13C12-PCB-028	15.99	1.05	100.00	1.40E+06	1.778
13C12-PCB-111	22	1.63	100.00	5.85E+05	1.124
13C12-PCB-178	25.05	1.02	100.00	3.98E+05	0.830
Injection Standards					
13C12-PCB-9	11.88	1.56	100.00	2.02E+06	-
13C12-PCB-52	16.97	0.83	100.00	7.89E+05	-
13C12-PCB-101	20.62	1.62	100.00	5.20E+05	-
13C12-PCB-138	24.86	1.26	100.00	4.80E+05	-
13C12-PCB-194	31.03	0.87	100.00	3.08E+05	-

ALS Life Sciences

Calibration Report

ALS Sample ID **H5-20-CS5-1035**
Analysis Method EPA 1668C
Analysis Type Calibration

Filename	Inst #	Column	Run Date	Approved:	*N Ashtari*
5-201202A08	HRMS-5	SPBOCTYL25600-01	02-Dec-2020 13:21		--e-signature--
					11-Nov-2021

Target Analytes	Ret. Time	Ion Ratio	Concentration ng/mL	Response	RRF
PCB-001	8.95	2.91	2000.00	5.31E+07	1.122
PCB-003	10.47	3.15	2000.00	5.23E+07	1.251
PCB-004	10.63	1.50	2000.00	2.62E+07	0.916
PCB-015	14.29	1.57	2000.00	4.52E+07	1.187
PCB-019	12.62	1.05	2000.00	2.62E+07	1.211
PCB-037	18.23	1.06	2000.00	3.18E+07	1.193
PCB-054	14.47	0.78	2000.00	3.29E+07	1.115
PCB-081	21.8	0.78	2000.00	2.48E+07	1.306
PCB-077	22.1	0.79	2000.00	2.43E+07	1.261
PCB-104	17.51	1.55	2000.00	2.77E+07	1.230
PCB-123	23.08	1.58	2000.00	1.98E+07	1.182
PCB-118	23.25	1.57	2000.00	2.20E+07	1.251
PCB-114	23.55	1.56	2000.00	2.09E+07	1.265
PCB-105	23.91	1.56	2000.00	2.01E+07	1.302
PCB-126	25.5	1.58	2000.00	1.99E+07	1.345
PCB-155	20.49	1.26	2000.00	2.52E+07	1.130
PCB-167	26.39	1.22	2000.00	1.75E+07	1.166
PCB-156/157	27.02	1.22	4000.00	3.68E+07	1.209
PCB-169	28.67	1.23	2000.00	1.60E+07	1.176
PCB-188	23.49	1.01	2000.00	1.81E+07	1.019
PCB-189	29.95	1.05	2000.00	1.44E+07	1.075
PCB-202	26.27	0.88	2000.00	1.55E+07	1.125
PCB-205	31.34	0.91	2000.00	1.10E+07	0.962
PCB-208	29.68	0.80	2000.00	1.19E+07	1.262
PCB-206	32.4	0.80	2000.00	7.99E+06	1.253
PCB-209	33.53	1.18	2000.00	9.81E+06	0.978
Extraction Standards					
13C12-PCB-001	8.94	3.03	100.00	2.36E+06	1.335
13C12-PCB-003	10.47	2.99	100.00	2.09E+06	1.178
13C12-PCB-004	10.62	1.58	100.00	1.43E+06	0.806
13C12-PCB-015	14.28	1.64	100.00	1.91E+06	1.076
13C12-PCB-019	12.61	1.03	100.00	1.08E+06	0.610
13C12-PCB-037	18.22	1.07	100.00	1.33E+06	1.908
13C12-PCB-054	14.46	0.79	100.00	1.48E+06	2.114
13C12-PCB-081	21.79	0.82	100.00	9.50E+05	1.916
13C12-PCB-077	22.08	0.83	100.00	9.62E+05	1.941
13C12-PCB-104	17.5	1.54	100.00	1.13E+06	2.271
13C12-PCB-123	23.08	1.57	100.00	8.38E+05	1.691
13C12-PCB-118	23.25	1.61	100.00	8.79E+05	1.773
13C12-PCB-114	23.55	1.63	100.00	8.27E+05	1.667
13C12-PCB-105	23.9	1.62	100.00	7.72E+05	1.557
13C12-PCB-126	25.48	1.61	100.00	7.41E+05	1.494
13C12-PCB-155	20.48	1.24	100.00	1.12E+06	2.252
13C12-PCB-167	26.38	1.30	100.00	7.51E+05	1.550
13C12-PCB-156/157	27.01	1.31	200.00	1.52E+06	1.570
13C12-PCB-169	28.66	1.30	100.00	6.81E+05	1.405
13C12-PCB-188	23.48	1.02	100.00	8.89E+05	1.833
13C12-PCB-189	29.93	1.06	100.00	6.70E+05	1.382
13C12-PCB-202	26.26	0.90	100.00	6.88E+05	1.418
13C12-PCB-205	31.31	0.88	100.00	5.72E+05	1.695
13C12-PCB-208	29.67	0.80	100.00	4.70E+05	1.393
13C12-PCB-206	32.39	0.80	100.00	3.19E+05	0.944
13C12-PCB-209	33.5	1.20	100.00	5.01E+05	1.486
Cleanup Standards					
13C12-PCB-028	15.99	1.06	100.00	1.28E+06	1.829
13C12-PCB-111	22.01	1.63	100.00	5.77E+05	1.164
13C12-PCB-178	25.05	1.04	100.00	4.05E+05	0.834
Injection Standards					
13C12-PCB-9	11.88	1.57	100.00	1.77E+06	-
13C12-PCB-52	16.98	0.83	100.00	6.98E+05	-
13C12-PCB-101	20.62	1.61	100.00	4.96E+05	-
13C12-PCB-138	24.86	1.30	100.00	4.85E+05	-
13C12-PCB-194	31.03	0.88	100.00	3.38E+05	-

ALS Life Sciences

Second Source Calibration Verification Report

Sample Name	**CVS**	Sampling Date	n/a		
ALS Sample ID	H5-20-RS1-1035	Extraction Date	n/a		Approved:
Analysis Method	EPA 1668C	Sample Size	1	n/a	*N Ashtari*
Analysis Type	CCV	Percent Moisture	n/a		--e-signature--
Sample Matrix	QC	Split Ratio	1		11-Nov-2021

Run Information	**Run 1**
Filename	5-201202A09
Run Date	02-Dec-20 14:03
Final Volume	40 ul
Dilution Factor	1
Analysis Units	%
Instrument - Column	HRMS-5 SPBOCTYL256001-02

Target Analytes	**pg/uL**	**Ret. Time**	**% Rec**	**Limits**	**Flags**
PCB-001	50	8.97	104	75-125	
PCB-003	50	10.49	101	75-125	
PCB-004	50	10.65	107	75-125	
PCB-015	50	14.32	109	75-125	
PCB-019	50	12.64	111	75-125	
PCB-037	50	18.27	107	75-125	
PCB-054	50	14.49	108	75-125	
PCB-081	50	21.83	103	75-125	
PCB-077	50	22.13	103	75-125	
PCB-104	50	17.52	98	75-125	
PCB-123	50	23.10	104	75-125	
PCB-118	50	23.27	103	75-125	
PCB-114	50	23.58	104	75-125	
PCB-105	50	23.93	101	75-125	
PCB-126	50	25.52	101	75-125	
PCB-155	50	20.51	100	75-125	
PCB-167	50	26.40	100	75-125	
PCB-156/157	100	27.04	103	75-125	
PCB-169	50	28.70	106	75-125	
PCB-188	50	23.50	103	75-125	
PCB-189	50	29.96	103	75-125	
PCB-202	50	26.28	105	75-125	
PCB-205	50	31.34	99	75-125	
PCB-208	50	29.69	98	75-125	
PCB-206	50	32.41	95	75-125	
PCB-209	50	33.53	105	75-125	
Extraction Standards		**Time**	**% Rec**	**Limits**	
13C12-PCB-001	100	8.97	97	50-145	
13C12-PCB-003	100	10.48	97	50-145	
13C12-PCB-004	100	10.63	94	50-145	
13C12-PCB-015	100	14.32	98	50-145	
13C12-PCB-019	100	12.62	92	50-145	
13C12-PCB-037	100	18.25	94	50-145	
13C12-PCB-054	100	14.47	92	50-145	
13C12-PCB-081	100	21.82	94	50-145	
13C12-PCB-077	100	22.12	93	50-145	
13C12-PCB-104	100	17.51	92	50-145	
13C12-PCB-123	100	23.09	93	50-145	
13C12-PCB-118	100	23.26	94	50-145	
13C12-PCB-114	100	23.56	92	50-145	
13C12-PCB-105	100	23.91	93	50-145	
13C12-PCB-126	100	25.52	92	50-145	
13C12-PCB-155	100	20.49	91	50-145	
13C12-PCB-167	100	26.39	98	50-145	
13C12-PCB-156/157	200	27.03	97	50-145	
13C12-PCB-169	100	28.69	101	50-145	
13C12-PCB-188	100	23.49	92	50-145	
13C12-PCB-189	100	29.95	104	50-145	
13C12-PCB-202	100	26.26	94	50-145	
13C12-PCB-205	100	31.33	97	50-145	
13C12-PCB-208	100	29.68	94	50-145	
13C12-PCB-206	100	32.40	97	50-145	
13C12-PCB-209	100	33.51	99	50-145	
Cleanup Standards					
13C12-PCB-028	100	16.00	101	65-135	
13C12-PCB-111	100	22.02	99	75-125	
13C12-PCB-178	100	25.06	99	75-125	

ALS Life Sciences

Continuing Calibration Report

Sample Name	**CCV**	Sampling Date	n/a		
ALS Sample ID	H5_21_CCV_944	Extraction Date	n/a		Approved:
Analysis Method	EPA 1668C	Sample Size	1	n/a	*N Ashtari*
Analysis Type	CCV	Percent Moisture	n/a		--e-signature--
Sample Matrix	QC	Split Ratio	1		11-Nov-2021

Run Information	**Run 1**
Filename	5_211102A16
Run Date	02-Nov-21 20:25
Final Volume	40 ul
Dilution Factor	1
Analysis Units	%
Instrument - Column	HRMS-5 SPBOCTYL256001-02

Target Analytes	**pg/uL**	**Ret. Time**	**% Rec**	**Limits**	**Flags**
PCB-001	50	8.91	91	75-125	
PCB-003	50	10.45	85	75-125	
PCB-004	50	10.61	98	75-125	
PCB-015	50	14.30	96	75-125	
PCB-019	50	12.61	101	75-125	
PCB-037	50	18.25	98	75-125	
PCB-054	50	14.46	99	75-125	
PCB-081	50	21.83	97	75-125	
PCB-077	50	22.13	95	75-125	
PCB-104	50	17.52	104	75-125	
PCB-123	50	23.11	97	75-125	
PCB-118	50	23.29	101	75-125	
PCB-114	50	23.58	94	75-125	
PCB-105	50	23.94	95	75-125	
PCB-126	50	25.54	98	75-125	
PCB-155	50	20.51	103	75-125	
PCB-167	50	26.42	101	75-125	
PCB-156/157	100	27.06	102	75-125	
PCB-169	50	28.72	103	75-125	
PCB-188	50	23.51	104	75-125	
PCB-189	50	29.99	99	75-125	
PCB-202	50	26.29	103	75-125	
PCB-205	50	31.37	102	75-125	
PCB-208	50	29.70	94	75-125	
PCB-206	50	32.45	94	75-125	
PCB-209	50	33.56	90	75-125	
Extraction Standards		**Time**	**% Rec**	**Limits**	
13C12-PCB-001	100	8.91	91	50-145	
13C12-PCB-003	100	10.44	99	50-145	
13C12-PCB-004	100	10.59	88	50-145	
13C12-PCB-015	100	14.29	106	50-145	
13C12-PCB-019	100	12.60	80	50-145	
13C12-PCB-037	100	18.24	104	50-145	
13C12-PCB-054	100	14.45	72	50-145	
13C12-PCB-081	100	21.82	98	50-145	
13C12-PCB-077	100	22.12	103	50-145	
13C12-PCB-104	100	17.50	67	50-145	
13C12-PCB-123	100	23.10	95	50-145	
13C12-PCB-118	100	23.28	94	50-145	
13C12-PCB-114	100	23.57	101	50-145	
13C12-PCB-105	100	23.93	103	50-145	
13C12-PCB-126	100	25.53	108	50-145	
13C12-PCB-155	100	20.50	77	50-145	
13C12-PCB-167	100	26.41	100	50-145	
13C12-PCB-156/157	200	27.05	99	50-145	
13C12-PCB-169	100	28.70	110	50-145	
13C12-PCB-188	100	23.50	85	50-145	
13C12-PCB-189	100	29.98	106	50-145	
13C12-PCB-202	100	26.27	85	50-145	
13C12-PCB-205	100	31.36	92	50-145	
13C12-PCB-208	100	29.69	96	50-145	
13C12-PCB-206	100	32.42	94	50-145	
13C12-PCB-209	100	33.54	83	50-145	
Cleanup Standards					
13C12-PCB-028	100	15.99	99	65-135	
13C12-PCB-111	100	22.03	103	75-125	
13C12-PCB-178	100	25.08	96	75-125	

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Continuing Calibration Report

Sample Name	**CCV**	Sampling Date	n/a		
ALS Sample ID	H5_21_CCV_946	Extraction Date	n/a		Approved:
Analysis Method	EPA 1668C	Sample Size	1	n/a	*N Ashtari*
Analysis Type	CCV	Percent Moisture	n/a		--e-signature--
Sample Matrix	QC	Split Ratio	1		11-Nov-2021

Run Information	**Run 1**
Filename	5_211102A25
Run Date	03-Nov-21 02:55
Final Volume	40 ul
Dilution Factor	1
Analysis Units	%
Instrument - Column	HRMS-5 SPBOCTYL256001-02

Target Analytes	**pg/uL**	**Ret. Time**	**% Rec**	**Limits**	**Flags**
PCB-001	50	8.91	91	75-125	
PCB-003	50	10.44	86	75-125	
PCB-004	50	10.59	99	75-125	
PCB-015	50	14.29	98	75-125	
PCB-019	50	12.60	99	75-125	
PCB-037	50	18.24	97	75-125	
PCB-054	50	14.44	99	75-125	
PCB-081	50	21.81	97	75-125	
PCB-077	50	22.12	96	75-125	
PCB-104	50	17.50	105	75-125	
PCB-123	50	23.10	97	75-125	
PCB-118	50	23.27	101	75-125	
PCB-114	50	23.57	96	75-125	
PCB-105	50	23.92	96	75-125	
PCB-126	50	25.51	98	75-125	
PCB-155	50	20.50	102	75-125	
PCB-167	50	26.41	101	75-125	
PCB-156/157	100	27.04	102	75-125	
PCB-169	50	28.70	101	75-125	
PCB-188	50	23.50	106	75-125	
PCB-189	50	29.98	100	75-125	
PCB-202	50	26.27	103	75-125	
PCB-205	50	31.36	101	75-125	
PCB-208	50	29.69	94	75-125	
PCB-206	50	32.42	96	75-125	
PCB-209	50	33.55	91	75-125	
Extraction Standards		**Time**	**% Rec**	**Limits**	
13C12-PCB-001	100	8.90	90	50-145	
13C12-PCB-003	100	10.42	96	50-145	
13C12-PCB-004	100	10.58	88	50-145	
13C12-PCB-015	100	14.27	103	50-145	
13C12-PCB-019	100	12.58	80	50-145	
13C12-PCB-037	100	18.23	105	50-145	
13C12-PCB-054	100	14.43	72	50-145	
13C12-PCB-081	100	21.80	98	50-145	
13C12-PCB-077	100	22.10	99	50-145	
13C12-PCB-104	100	17.49	66	50-145	
13C12-PCB-123	100	23.08	93	50-145	
13C12-PCB-118	100	23.25	93	50-145	
13C12-PCB-114	100	23.56	99	50-145	
13C12-PCB-105	100	23.91	102	50-145	
13C12-PCB-126	100	25.50	112	50-145	
13C12-PCB-155	100	20.49	78	50-145	
13C12-PCB-167	100	26.40	99	50-145	
13C12-PCB-156/157	200	27.04	100	50-145	
13C12-PCB-169	100	28.69	113	50-145	
13C12-PCB-188	100	23.48	82	50-145	
13C12-PCB-189	100	29.96	103	50-145	
13C12-PCB-202	100	26.26	85	50-145	
13C12-PCB-205	100	31.35	94	50-145	
13C12-PCB-208	100	29.67	98	50-145	
13C12-PCB-206	100	32.41	94	50-145	
13C12-PCB-209	100	33.52	82	50-145	
Cleanup Standards					
13C12-PCB-028	100	15.97	100	65-135	
13C12-PCB-111	100	22.02	103	75-125	
13C12-PCB-178	100	25.07	95	75-125	

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SVOC DATA PACKAGE

SECTION 5: QC SAMPLE DATA

Including:

- Laboratory Method Blank Analysis Reports
- Laboratory Control Sample Analysis Reports
- Matrix Spike Analysis Reports
- Other QC Sample Analysis Reports (where applicable)

ALS Life Sciences

Laboratory Method Blank Analysis Report

Sample Name	**Method Blank**	Sampling Date	n/a		
ALS Sample ID	WG3603564-1	Extraction Date	7-Sep-21		Approved:
Analysis Method	EPA 1668C	Sample Size	1.00	L	*N Ashtari*
Analysis Type	Blank	Percent Moisture	n/a		--e-signature--
Sample Matrix	QC	Split Ratio	2		11-Nov-2021

Run Information	**Run 1**
Filename	5_211102A22
Run Date	03-Nov-21 00:48
Final Volume	40 ul
Dilution Factor	1
Analysis Units	pg/L
Instrument - Column	HRMS-5 SPBOCTYL256001-02

Target Analytes	**TEF (WHO 2005)**	**Ret. Time**	**Conc. pg/L**	**EDL pg/L**	**Flags**	**EMPC pg/L**	**LQL**
PCB-001		8.91	<9.6	3.7	M,J,R	9.6	80
PCB-002		10.33	<8.3	4.3	M,J,R	8.3	80
PCB-003		10.42	<11	4.4	M,J,R	11	80
PCB-004		NotFnd	<32	32	U		80
PCB-010		NotFnd	<19	19	U		80
PCB-009		NotFnd	<19	19	U		80
PCB-007		NotFnd	<18	18	U		80
PCB-006		NotFnd	<18	18	U		80
PCB-005		NotFnd	<23	23	U		80
PCB-008		NotFnd	<16	16	U		80
PCB-014		NotFnd	<23	23	U		80
PCB-011		NotFnd	<24	24	U		80
PCB-012/013		NotFnd	<25	25	U		80
PCB-015		NotFnd	<34	34	U		80
PCB-019		NotFnd	<12	12	U		80
PCB-018/030		NotFnd	<4.4	4.4	U		80
PCB-017		NotFnd	<5.7	5.7	U		80
PCB-027		NotFnd	<3.8	3.8	U		80
PCB-024		NotFnd	<4.0	4.0	U		80
PCB-016		NotFnd	<6.0	6.0	U		80
PCB-032		14.54	<3.5	3.5	M,U	1.4	80
PCB-034		NotFnd	<5.9	5.9	U		80
PCB-023		NotFnd	<5.6	5.6	U		80
PCB-026/029		NotFnd	<5.7	5.7	U		80
PCB-025		NotFnd	<4.8	4.8	U		80
PCB-031		15.86	<5.2	5.2	M,U	4.6	80
PCB-020/028		NotFnd	<5.9	5.9	U		80
PCB-021/033		16.15	<5.3	5.3	M,U	2.3	80
PCB-022		NotFnd	<5.5	5.5	U		80
PCB-036		NotFnd	<5.2	5.2	U		80
PCB-039		NotFnd	<5.4	5.4	U		80
PCB-038		NotFnd	<5.8	5.8	U		80
PCB-035		NotFnd	<5.8	5.8	U		80
PCB-037		18.29	<6.7	6.7	M,U		80
PCB-054		NotFnd	<3.7	3.7	U		80
PCB-050/053		NotFnd	<2.1	2.1	U		80
PCB-045/051		NotFnd	<2.2	2.2	U		80
PCB-046		NotFnd	<2.6	2.6	U		80
PCB-052		17.00	<2.5	2.1	M,J,R	2.5	80
PCB-073		NotFnd	<1.7	1.7	U		80
PCB-043		NotFnd	<2.4	2.4	U		80
PCB-049/069		17.27	<1.9	1.9	M,U	1.8	80
PCB-048		NotFnd	<2.2	2.2	U		80
PCB-044/047/065		17.58	<3.4	2.0	J,R	3.4	80
PCB-059/062/075		NotFnd	<1.6	1.6	U		80
PCB-042		NotFnd	<2.3	2.3	U		80
PCB-040/041/071		NotFnd	<2.2	2.2	U		80
PCB-064		NotFnd	<1.5	1.5	U		80
PCB-072		NotFnd	<2.0	2.0	U		80
PCB-068		NotFnd	<1.9	1.9	U		80
PCB-057		NotFnd	<2.2	2.2	U		80
PCB-058		NotFnd	<2.1	2.1	U		80
PCB-067		NotFnd	<1.8	1.8	U		80
PCB-063		NotFnd	<2.0	2.0	U		80
PCB-061/070/074/076		19.61	<5.4	2.1	M,J,R	5.4	80
PCB-066		19.78	2.11	1.9	M,J		80
PCB-055		NotFnd	<2.1	2.1	U		80
PCB-056		NotFnd	<2.2	2.2	U		80
PCB-060		NotFnd	<2.1	2.1	U		80
PCB-080		NotFnd	<1.8	1.8	U		80
PCB-079		NotFnd	<1.8	1.8	U		80
PCB-078		NotFnd	<2.1	2.1	U		80
PCB-081	0.0003	NotFnd	<1.9	1.9	U		80
PCB-077	0.0001	NotFnd	<2.0	2.0	U		80
PCB-104		NotFnd	<2.9	2.9	U		80
PCB-096		NotFnd	<2.1	2.1	U		80
PCB-103		NotFnd	<2.7	2.7	U		80
PCB-094		NotFnd	<3.2	3.2	U		80
PCB-095		19.16	<2.9	2.9	M,U	2.4	80
PCB-093/098/100/102		NotFnd	<3.0	3.0	U		80

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Laboratory Method Blank Analysis Report

Sample Name	**Method Blank**	Sampling Date	n/a		
ALS Sample ID	WG3603564-1	Extraction Date	7-Sep-21		Approved:
Analysis Method	EPA 1668C	Sample Size	1.00	L	*N Ashtari*
Analysis Type	Blank	Percent Moisture	n/a		--e-signature--
Sample Matrix	QC	Split Ratio	2		11-Nov-2021

Run Information	**Run 1**
Filename	5_211102A22
Run Date	03-Nov-21 00:48
Final Volume	40 ul
Dilution Factor	1
Analysis Units	pg/L
Instrument - Column	HRMS-5 SPBOCTYL256001-02

Target Analytes	TEF (WHO 2005)	Ret. Time	Conc. pg/L	EDL pg/L	Flags	EMPC pg/L	LQL
PCB-088/091		NotFnd	<3.0	3.0	U		80
PCB-084		NotFnd	<3.5	3.5	U		80
PCB-089		NotFnd	<3.3	3.3	U		80
PCB-121		NotFnd	<2.2	2.2	U		80
PCB-092		NotFnd	<3.0	3.0	U		80
PCB-090/101/113		NotFnd	<2.5	2.5	U		80
PCB-083/099		20.97	<3.1	3.1	M,U	2.6	80
PCB-112		NotFnd	<2.2	2.2	U		80
PCB-086/087/097/109/119/125		NotFnd	<2.6	2.6	U		80
PCB-085/110/115/116/117		21.73	<3.8	2.3	M,J,R	3.8	80
PCB-082		NotFnd	<3.6	3.6	U		80
PCB-111		NotFnd	<2.1	2.1	U		80
PCB-120		NotFnd	<2.0	2.0	U		80
PCB-108/124		NotFnd	<2.3	2.3	U		80
PCB-107		NotFnd	<2.3	2.3	U		80
PCB-123	0.00003	NotFnd	<2.4	2.4	U		80
PCB-106		NotFnd	<2.2	2.2	U		80
PCB-118	0.00003	23.28	3.73	2.4	M,J		80
PCB-122		NotFnd	<2.5	2.5	U		80
PCB-114	0.00003	NotFnd	<2.2	2.2	U		80
PCB-105	0.00003	23.93	<2.1	2.1	M,U	1.6	80
PCB-127		NotFnd	<2.2	2.2	U		80
PCB-126	0.1	NotFnd	<2.1	2.1	U		80
PCB-155		NotFnd	<1.1	1.1	U		80
PCB-152		NotFnd	<0.82	0.82	U		80
PCB-150		NotFnd	<0.87	0.87	U		80
PCB-136		NotFnd	<0.86	0.86	U		80
PCB-145		NotFnd	<0.89	0.89	U		80
PCB-148		NotFnd	<1.2	1.2	U		80
PCB-135/151		NotFnd	<1.2	1.2	U		80
PCB-154		NotFnd	<1.0	1.0	U		80
PCB-144		NotFnd	<1.2	1.2	U		80
PCB-147/149		22.67	2.03	1.3	M,J		80
PCB-134/143		NotFnd	<1.4	1.4	U		80
PCB-139/140		NotFnd	<1.3	1.3	U		80
PCB-131		NotFnd	<1.5	1.5	U		80
PCB-142		NotFnd	<1.4	1.4	U		80
PCB-132		NotFnd	<1.4	1.4	U		80
PCB-133		NotFnd	<1.3	1.3	U		80
PCB-165		NotFnd	<0.96	0.96	U		80
PCB-146		NotFnd	<1.2	1.2	U		80
PCB-161		NotFnd	<0.88	0.88	U		80
PCB-153/168		24.21	<1.1	0.97	M,J,R	1.1	80
PCB-141		NotFnd	<1.3	1.3	U		80
PCB-130		NotFnd	<1.4	1.4	U		80
PCB-137/164		NotFnd	<1.1	1.1	U		80
PCB-129/138/163		24.89	<3.2	1.3	J,R	3.2	80
PCB-160		NotFnd	<0.76	0.76	U		80
PCB-158		NotFnd	<0.82	0.82	U		80
PCB-128/166		NotFnd	<1.0	1.0	U		80
PCB-159		NotFnd	<0.86	0.86	U		80
PCB-162		NotFnd	<0.93	0.93	U		80
PCB-167	0.00003	NotFnd	<0.87	0.87	U		80
PCB-156/157	0.00003	NotFnd	<1.2	1.2	U		160
PCB-169	0.03	NotFnd	<0.87	0.87	U		80
PCB-188		NotFnd	<1.2	1.2	U		80
PCB-179		NotFnd	<0.97	0.97	U		80
PCB-184		NotFnd	<0.95	0.95	U		80
PCB-176		NotFnd	<1.0	1.0	U		80
PCB-186		NotFnd	<1.0	1.0	U		80
PCB-178		NotFnd	<1.4	1.4	U		80
PCB-175		NotFnd	<1.4	1.4	U		80
PCB-187		NotFnd	<1.2	1.2	U		80
PCB-182		NotFnd	<1.4	1.4	U		80
PCB-183		NotFnd	<1.3	1.3	U		80
PCB-185		NotFnd	<1.3	1.3	U		80
PCB-174		NotFnd	<1.5	1.5	U		80
PCB-177		NotFnd	<1.4	1.4	U		80
PCB-181		NotFnd	<1.4	1.4	U		80
PCB-171/173		NotFnd	<1.5	1.5	U		80
PCB-172		NotFnd	<1.4	1.4	U		80

ALS Life Sciences

Laboratory Method Blank Analysis Report

Sample Name	**Method Blank**	Sampling Date	n/a		
ALS Sample ID	WG3603564-1	Extraction Date	7-Sep-21		Approved:
Analysis Method	EPA 1668C	Sample Size	1.00	L	*N Ashtari*
Analysis Type	Blank	Percent Moisture	n/a		--e-signature--
Sample Matrix	QC	Split Ratio	2		11-Nov-2021

Run Information	**Run 1**
Filename	5_211102A22
Run Date	03-Nov-21 00:48
Final Volume	40 ul
Dilution Factor	1
Analysis Units	pg/L
Instrument - Column	HRMS-5 SPBOCTYL256001-02

Target Analytes	**TEF (WHO 2005)**	**Ret. Time**	**Conc. pg/L**	**EDL pg/L**	**Flags**	**EMPC pg/L**	**LQL**
PCB-192		NotFnd	<1.2	1.2	U		80
PCB-180/193		NotFnd	<1.2	1.2	U		80
PCB-191		NotFnd	<1.0	1.0	U		80
PCB-170		NotFnd	<1.5	1.5	U		80
PCB-190		NotFnd	<0.96	0.96	U		80
PCB-189	0.00003	NotFnd	<0.73	0.73	U		80
PCB-202		NotFnd	<0.96	0.96	U		80
PCB-201		NotFnd	<0.86	0.86	U		80
PCB-204		NotFnd	<0.88	0.88	U		80
PCB-197		NotFnd	<0.89	0.89	U		80
PCB-200		NotFnd	<0.86	0.86	U		80
PCB-198/199		NotFnd	<1.2	1.2	U		80
PCB-196		NotFnd	<1.2	1.2	U		80
PCB-203		NotFnd	<1.1	1.1	U		80
PCB-195		NotFnd	<0.98	0.98	U		80
PCB-194		31.08	<1.2	0.91	M,J,R	1.2	80
PCB-205		NotFnd	<0.86	0.86	U		80
PCB-208		NotFnd	<1.9	1.9	U		80
PCB-207		NotFnd	<2.2	2.2	U		80
PCB-206		NotFnd	<3.4	3.4	U		80
PCB-209		33.56	1.37	0.58	M,J		80

Extraction Standards	**pg**	**Time**	**% Rec**	**Limits**
13C12-PCB-001	4000	8.90	23	5-145
13C12-PCB-003	4000	10.44	25	5-145
13C12-PCB-004	4000	10.59	25	5-145
13C12-PCB-015	4000	14.33	40	5-145
13C12-PCB-019	4000	12.60	27	5-145
13C12-PCB-037	4000	18.27	61	5-145
13C12-PCB-054	4000	14.46	26	5-145
13C12-PCB-081	4000	21.82	76	10-145
13C12-PCB-077	4000	22.12	82	10-145
13C12-PCB-104	4000	17.51	33	10-145
13C12-PCB-123	4000	23.10	83	10-145
13C12-PCB-118	4000	23.27	81	10-145
13C12-PCB-114	4000	23.57	87	10-145
13C12-PCB-105	4000	23.92	94	10-145
13C12-PCB-126	4000	25.51	112	10-145
13C12-PCB-155	4000	20.50	48	10-145
13C12-PCB-167	4000	26.41	86	10-145
13C12-PCB-156/157	8000	27.04	88	10-145
13C12-PCB-169	4000	28.70	110	10-145
13C12-PCB-188	4000	23.50	57	10-145
13C12-PCB-189	4000	29.96	98	10-145
13C12-PCB-202	4000	26.26	70	10-145
13C12-PCB-205	4000	31.35	80	10-145
13C12-PCB-208	4000	29.69	80	10-145
13C12-PCB-206	4000	32.42	80	10-145
13C12-PCB-209	4000	33.53	69	10-145

Cleanup Standards				
13C12-PCB-028	4000	16.01	21	5-145
13C12-PCB-111	4000	22.04	42	10-145
13C12-PCB-178	4000	25.08	44	10-145

ALS Life Sciences

Laboratory Method Blank Analysis Report

Sample Name	**Method Blank**	Sampling Date	n/a		
ALS Sample ID	WG3603564-1	Extraction Date	7-Sep-21		Approved:
Analysis Method	EPA 1668C	Sample Size	1.00	L	*N Ashtari*
Analysis Type	Blank	Percent Moisture	n/a		--e-signature--
Sample Matrix	QC	Split Ratio	2		11-Nov-2021

Run Information	**Run 1**
Filename	5_211102A22
Run Date	03-Nov-21 00:48
Final Volume	40 ul
Dilution Factor	1
Analysis Units	pg/L
Instrument - Column	HRMS-5 SPBOCTYL256001-02

Target Analytes	**TEF (WHO 2005)**	**Ret. Time**	**Conc. pg/L**	**EDL pg/L**	**Flags**	**EMPC pg/L**	**LQL**
Homologue Group Totals							
Total MonoCB			28.9	3.7	J		320
Total DiCB			<16	16	U		640
Total TriCB			<3.5	3.5	U		640
Total TetraCB			13.4	1.5	J		1300
Total PentaCB			7.53	2.0	J		1300
Total HexaCB			6.33	0.76	J		1300
Total HeptaCB			<0.73	0.73	U		640
Total OctaCB			1.20	0.86	J		640
Total NonaCB			<1.9	1.9	U		320
DecaCB			1.37	0.58	J		320
Total PCB			58.7		J		2600
Toxic Equivalency - (WHO 2005)							
Lower Bound PCB TEQ			0.000112				
Mid Point PCB TEQ			0.119				
Upper Bound PCB TEQ			0.237				

EDL	Indicates the Estimated Detection Limit, based on the measured background noise for this target in this sample.
TEF	Indicates the Toxic Equivalency Factor TEQ Indicates the Toxic Equivalency
LQL	Lower Quantification Limit, based on the lowest calibration level corrected for sample size, splits and dilutions.
M	Indicates that a peak has been manually integrated.
U	Indicates that this compound was not detected above the EDL.
J	Indicates that the analyte was positively identified. The associated numerical result is an estimate.
R	Indicates that the ion abundance ratio for this analyte did not meet the control limit. The reported value represents an estimated concentration.
EMPC	Estimated Maximum Possible Concentration – elevated detection limit due to interference or positive id criterion failure

ALS Life Sciences

Laboratory Control Sample Analysis Report

Sample Name	**Laboratory Control Sample**	Sampling Date	n/a		
ALS Sample ID	WG3603564-2	Extraction Date	7-Sep-21		Approved:
Analysis Method	EPA 1668C	Sample Size	1	n/a	*N Ashtari*
Analysis Type	LCS	Percent Moisture	n/a		--e-signature--
Sample Matrix	QC	Split Ratio	2		11-Nov-2021

Run Information	**Run 1**
Filename	5_211102A19
Run Date	02-Nov-21 22:42
Final Volume	40 ul
Dilution Factor	1
Analysis Units	% Rec
Instrument - Column	HRMS-5 SPBOCTYL256001-02

Target Analytes	**pg**	**Ret. Time**	**% Rec**	**Limits**	**Flags**
PCB-001	2000	8.90	98	60-135	
PCB-003	2000	10.44	94	60-135	
PCB-004	2000	10.59	109	60-135	
PCB-015	2000	14.29	101	60-135	
PCB-019	2000	12.60	109	60-135	
PCB-037	2000	18.24	102	60-135	
PCB-054	2000	14.46	109	60-135	
PCB-081	2000	21.82	98	60-135	
PCB-077	2000	22.12	100	60-135	
PCB-104	2000	17.51	101	60-135	
PCB-123	2000	23.11	99	60-135	
PCB-118	2000	23.28	102	60-135	
PCB-114	2000	23.57	99	60-135	
PCB-105	2000	23.93	96	60-135	
PCB-126	2000	25.51	93	60-135	
PCB-155	2000	20.50	105	60-135	
PCB-167	2000	26.41	99	60-135	
PCB-156/157	4000	27.05	101	60-135	
PCB-169	2000	28.70	100	60-135	
PCB-188	2000	23.51	108	60-135	
PCB-189	2000	29.98	101	60-135	
PCB-202	2000	26.27	107	60-135	
PCB-205	2000	31.36	96	60-135	
PCB-208	2000	29.70	91	60-135	
PCB-206	2000	32.43	90	60-135	
PCB-209	2000	33.56	103	60-135	
Extraction Standards		**Time**	**% Rec**	**Limits**	
13C12-PCB-001	4000	8.90	29	15-145	
13C12-PCB-003	4000	10.42	32	15-145	
13C12-PCB-004	4000	10.59	32	15-145	
13C12-PCB-015	4000	14.28	45	15-145	
13C12-PCB-019	4000	12.58	32	15-145	
13C12-PCB-037	4000	18.22	64	15-145	
13C12-PCB-054	4000	14.44	31	15-145	
13C12-PCB-081	4000	21.80	69	40-145	
13C12-PCB-077	4000	22.11	70	40-145	
13C12-PCB-104	4000	17.50	35	40-145	
13C12-PCB-123	4000	23.08	71	40-145	
13C12-PCB-118	4000	23.27	68	40-145	
13C12-PCB-114	4000	23.56	72	40-145	
13C12-PCB-105	4000	23.92	77	40-145	
13C12-PCB-126	4000	25.50	86	40-145	
13C12-PCB-155	4000	20.49	47	40-145	
13C12-PCB-167	4000	26.40	77	40-145	
13C12-PCB-156/157	8000	27.04	77	40-145	
13C12-PCB-169	4000	28.69	92	40-145	
13C12-PCB-188	4000	23.50	58	40-145	
13C12-PCB-189	4000	29.96	79	40-145	
13C12-PCB-202	4000	26.26	65	40-145	
13C12-PCB-205	4000	31.35	70	40-145	
13C12-PCB-208	4000	29.69	78	40-145	
13C12-PCB-206	4000	32.42	76	40-145	
13C12-PCB-209	4000	33.53	62	40-145	
Cleanup Standards					
13C12-PCB-028	4000	15.98	26	15-145	
13C12-PCB-111	4000	22.02	39	40-145	
13C12-PCB-178	4000	25.07	42	40-145	

R Indicates that the ion abundance ratio for this analyte did not meet the control limit. The reported value represents an estimated concentration.

1435 Norjohn Court, Unit 1, Burlington, ON, Canada L7L 0E6

SVOC DATA PACKAGE

SECTION 6: INTERNAL RECORDS

Including:

- Prep Logs
- Independent calculation checks
- Others as listed below:

Extraction Workup Sheet

Tray #1

Batch ID:	WG3603564	Analysis:	Water - DX/PCB/PBDE
			PBDE protocol
Analyst:	Navdeep Buttar	Date:	7-Sep-21

SUBSAMPLING

Sample I.D.	Client I.D.	Wet Sub-sample (g)
WG3603564-1	Method Blank	1000
WG3603564-2	Laboratory Control Sample	1000
WG3603564-3	Extraction and Injection STD.	—
L2625428-1	FINAL EFFLUENT	1100
	Copper treat DX portion only!	

BATCH TRACKING

	Date/Time/Initials
Bottle volume marked:	7-Sep-21 4:00pm NB
Client Labels Checked:	7-Sep-21 4:00pm NB
Samples Spiked	7-Sep-21 5:00pm NB
Samples Filtered:	—
Liquid/Liquid extraction:	7-Sep-21 7:00pm NB
Soxhlet start time:	—
Soxhlet reflux properly:	—
Soxhlet end time:	—
Rotovap Reduction:	9-Sep-21 KN
Rotovap Temp Verified:	9-Sep-21 KN
Acid Column:	9-Sep-21 KN
Split:	9-Sep-21 5:40pm NB
Alumina Column:	9-Sep-21 NB
Carbon Column:	10-Sept-21 AM
N-Evap Temp Verified:	10-Sept-21 AM
PCB/PBDE Micro/Robo Vial:	9-Sep-21 MNS

Batch ID:	WG3603564

DX Extraction Standard:

Sample I.D.	Volume (ul)	(Checkmark) Spiked
WG3603564-1	40	✓
WG3603564-2	40	✓
WG3603564-3	40	✓
L2625428-1	40	✓
	40	
	40	
	40	
	40	
	40	
	40	
	40	
	40	
	40	
	40	
	40	
	40	

Syringe ID: 318

Standard: 1613B-ES#1-093D

Spike Date: 07-Sep-21

Spike Witnessing

Chemist's Initials

Chemist: NS

Witness's Initials

Witness: GG

Witness's Initials

Correct Syringe Obtained: GG

Witness's Initials

Correct Standard Obtained: GG

Witness's Initials

Correct Technique Followed: GG

PCB Extraction Standard:

Sample I.D.	Volume (ul)	(Checkmark) Spiked
WG3603564-1	40	✓
WG3603564-2	40	✓
WG3603564-3	40	✓
L2625428-1	40	✓
	40	
	40	
	40	
	40	
	40	
	40	
	40	
	40	
	40	
	40	
	40	
	40	

Syringe ID: 382

Standard: 1668A-ES#2-075J

Spike Date: 07-Sep-21

Spike Witnessing

Chemist's Initials

Chemist: NS

Witness's Initials

Witness: GG

Witness's Initials

Correct Syringe Obtained: GG

Witness's Initials

Correct Standard Obtained: GG

Witness's Initials

Correct Technique Followed: GG

Batch ID:	WG3603564

PBDE Extraction Standard:

Sample I.D.	Volume (ul)	(Checkmark) Spiked
WG3603564-1	40	✓
WG3603564-2	40	✓
WG3603564-3	40	✓
L2625428-1	40	✓
	40	
	40	
	40	
	40	
	40	
	40	
	40	
	40	
	40	
	40	
	40	
	40	

Syringe ID: 169

Standard: PBDEX-ES#1- 008D

Spike Date: 07-Sep-21

07-Sep-21 GG

Spike Witnessing

Chemist's Initials

Chemist: NB

Witness's Initials

Witness: GG

Witness's Initials

Correct Syringe Obtained: GG

Witness's Initials

Correct Standard Obtained: GG

Witness's Initials

Correct Technique Followed: GG

DX Native Standard:

Sample I.D.	Volume (ul)	(Checkmark) Spiked
WG3603564-2	40	✓
WG3603564-3	40	✓

Syringe ID: 322

Standard: 1613B-NS#3- 035B

Date & Initials: 7-Sep-21 NB

PCB Native Standard:

Sample I.D.	Volume (ul)	(Checkmark) Spiked
WG3603564-2	40	✓
WG3603564-3	40	✓

Syringe ID: 394

Standard: 1668A-NS#1- 043F

Date & Initials: 7-Sep-21 NB

PBDE Native Standard:

Sample I.D.	Volume (ul)	(Checkmark) Spiked
WG3603564-2	40	✓
WG3603564-3	40	✓

Syringe ID: 324

Standard: PBDEX-NS#1- 005B

Date & Initials: 7-Sep-2021 NB

Batch ID:	WG3603564

DX Cleanup Standard:

Sample I.D.	Volume (ul)	(Checkmark) Spiked
WG3603564-1	20	✓
WG3603564-2	20	✓
WG3603564-3	20	N/A
L2625428-1	20	✓
	20	
	20	
	20	
	20	
	20	
	20	
	20	
	20	
	20	
	20	
	20	

Syringe ID: 399

Standard: 1613B-CL#2- 080B

Date & Initials: 9-Sep-21 KM

Chemist's Initials

Correct Syringe Obtained: KM

Chemist's Initials

Correct Standard Obtained: KM

Chemist's Initials

Correct Technique Followed: KM

PCB Cleanup Standard:

Sample I.D.	Volume (ul)	(Checkmark) Spiked
WG3603564-1	20	✓
WG3603564-2	20	✓
WG3603564-3	20	N/A
L2625428-1	20	✓
	20	
	20	
	20	
	20	
	20	
	20	
	20	
	20	
	20	
	20	

Syringe ID: 378

Standard: 1668A-CL#2- 041G

Date & Initials: 9-Sep-21 KM

Chemist's Initials

Correct Syringe Obtained: KM

Chemist's Initials

Correct Standard Obtained: KM

Chemist's Initials

Correct Technique Followed: KM

Batch ID:	WG3603564

PBDE Cleanup Standard:

Sample I.D.	Volume (ul)	(Checkmark) Spiked
WG3603564-1	20	✓
WG3603564-2	20	✓
WG3603564-3	20	N/A
L2625428-1	20	✓
	20	
	20	
	20	
	20	
	20	
	20	
	20	
	20	
	20	
	20	

Syringe ID: 386

Standard: PBDEX-CL#1- 005E

Date & Initials: 9-Sep-21 KM

Correct Syringe Obtained: KM (Chemist's Initials)

Correct Standard Obtained: KM (Chemist's Initials)

Correct Technique Followed: KM (Chemist's Initials)

PCB Injection Standard:

Sample I.D.	Volume (ul)	(Checkmark) Spiked
WG3603564-1	5	✓
WG3603564-2	5	✓
WG3603564-3	5	✓
L2625428-1	5	✓
	5	
	5	
	5	
	5	
	5	
	5	
	5	
	5	
	5	
	5	
	5	
	5	
	5	
	5	
	5	
	5	
	5	

Syringe ID: 407

Standard: 1668A-IS#2- 016C

Date & Initials: 9-Sep-21 NS

Correct Syringe Obtained: NS (Chemist's Initials)

Correct Standard Obtained: NS (Chemist's Initials)

Correct Technique Followed: NS (Chemist's Initials)

Batch ID:	WG3603564

PBDE Injection Standard:

Sample I.D.	Volume (ul)	Spiked (Checkmark)
WG3603564-1	5	✓
WG3603564-2	5	✓
WG3603564-3	5	✓
L2625428-1	5	✓
	5	
	5	
	5	
	5	
	5	
	5	
	5	
	5	
	5	
	5	
	5	
	5	
	5	
	5	
	5	
	5	
	5	

Syringe ID: 341

Standard: PBDEX-IS#1- 003E

Date & Initials: 9-Sep-21 NB

Chemist's Initials

Correct Syringe Obtained: NB

Chemist's Initials

Correct Standard Obtained: NB

Chemist's Initials

Correct Technique Followed: NB

DX Injection Standard:

Sample I.D.	Volume (ul)	Spiked (Checkmark)
WG3603564-1	10	✓
WG3603564-2	10	✓
WG3603564-3	10	✓
L2625428-1	10	✓
	10	
	10	
	10	
	10	
	10	
	10	
	10	
	10	
	10	
	10	
	10	
	10	
	10	
	10	
	10	
	10	
	10	
	10	

Syringe ID: 408

Standard: 1613B-IS#1-093A

Date & Initials: 10-Sept-21 AM

Chemist's Initials

Correct Syringe Obtained: AM

Chemist's Initials

Correct Standard Obtained: AM

Chemist's Initials

Correct Technique Followed: AM

Batch ID:	WG3603564

Procedure:

This batchsheet is a guideline only. Please see test procedure for complete set of instructions.
Extraction:
- Mark the liquid level on the sample bottle. **Sample Size = 1L**
- Spike Extraction Standard in to ~1ml of Acetone, then add to the sample bottle with 2 acetone rinses.
- Add 100mL DCM to sample bottle, then add to sep funnel, shake for 2mins, collect DCM in flask
- Repeat two more times, combine with first extraction. Elute 50mL DCM through allihn filter
- Fill the original sample bottle up to the mark with tap water, then measure and record the volume using a grad cylinder.
- Roto-vap down to ~2ml
- Transfer to a c-tube with 3x2ml Hexane rinses.
- Reduce to 1mL and spike cleanup standards.
- Perform Acid Silica column
- Elute to 50ml with Hexane.
Reduce to 2mL and Split **1/2 DX** **1/2 PCB/PBDE**

-Perform Copper treatment only for DX portion
PCB/PBDE
- Reduce to 50uL, bulk up with 1mL of Hexane
- Perform Alumina Column:
• Pre-elute the Alumina Column with 7ml Hexane
• Place F1 c-tube under the column, then load the sample with 3x 1ml Hexane Rinses
• F1 1mL of Hexane
• Place F2 c-tube under the column. Ensure ctube is accurately marked for split
• F2 (DX/PCB/PBDE) **25ml** 1:1 DCM:Hexane
- Blow down to ~500ul
PCB/PBDE:
- Vortex **very** well.
- Transfer every last drop to a micro-vial (no rinses).
- Blow down **VERY GENTLY** to the mark. (Micro-vial should contain **30ul Toluene**, and the level should be marked with a **fine tipped black marker**.)
- Spike PCB and PBDE Injection Standards. Cap and Vortex **FV = 40ul**

DX:

- Carbon Column: - 4cm of well-packed chroma-carb.
  - Pre-elute Carbon with 5ml Hexane
  - Transfer with 3x1ml Hexane
  - F1 = **10ml** 1:1 DCM:Hexane (Archive)
  - After dripping has stopped Invert Column.
  - F2 = 14ml Toluene (DX)

- After the column has stopped dripping reduce the **F2** portion down to ~1/2ml.

- Vortex well, then transfer to a micro-vial without rinses.
- Blow the micro-vial down to just-dry.
- Spike with Injection Standard, Cap the micro-vial, and Vortex. **FV=10ul**

Approval of Deviation from Standard Method

(Batch Writer): _____

☐ Procedure does deviate from Standard Method. **Approved (Supervisor/Manager):** _____

Comments:

- Label and save all columns.

Reagent Lot Numbers:

Reagent	Lot#	Comment
Acetone	106330	
Hexane	106342	
DCM	106349	
Toluene	106301	
Nonane	ORG-WAKONON- 061	
1:1 DCM:HEX	ORG-DH2- 713	
Sodium Sulphate	ORG-SSU- 2713	
Acid Silica	ORG-ASI- 10270, 10274, 10280	
Neutral Silica	ORG-NSI- 2658	
Alumina	ORG-ALU- 515	
Chromacarb	ORG-CC- 312	

WG3603564
28-Jul-2020 / MSM
Page 8 of 8

Page 8 of 8

Re-column/Re-work Requisition Form

Workgroup	WG3603564	
Samples	Rework 1: combine the extract with the alumina F1, submit for analysis	Rework 2:
WG3603564-1		
WG3603564-2	x	
WG3603564-3		
L2625428-1		

	Initials	Date
Column:	—	—
Microvial:	ACB	16-Sept-21
Spiking	—	—

Initials	Standards Used:
—	—

Reagent Lot Numbers:

Reagent	Lot#	Manufacturer
Copper	—	
Hexane	—	
DCM	—	
Toluene	—	
1:1 DCM:HEX	—	
Sodium Sulphate	—	
Acid Silica	—	
Neutral Silica	—	
Florisil	—	
Alumina	—	
Nitrogen	—	
Chromacarb	—	

	Initials	Date	Analysis
Re-Work Sent to Prep:	EG	15-Sep-21	PBDE

~~alumina F1 (W2) was found dry, built up with hexane and vortexed immediately and proceeded.~~
~~ACB 16 Sept-21~~
ignore comment, was looking at wrong sample initially ACB 16-Sept-21

If all samples from a batch are being sent for remedial re-work or procedural re-work, be sure to include QC samples. If selected samples are being sent for remedial re-work, create a procedural blank which will receive the prescribed re-work.

WG3603564 REWORK
16-Feb-2017 / JP, MM
Page 1 of 1

ALS Life Sciences

Sample Calculation Report

Approved: *N Ashtari* --e-signature-- 11-Nov-2021

CS3 RRF Check

$$RRF = \frac{\text{Response of PCB-118}}{\text{Response of 13C12-PCB-118}} \times \frac{\text{Concentration of 13C12-PCB-118}}{\text{Concentration of PCB-118}}$$

							Calculated Value	Value from TargetLynx
RRF	=	**412135.20** / **682591.40**	x	**100** / **50**	=	**1.21**	**1.21**	

Calculation of PCB-118 amount in L2625428-1

$$pg/L = \frac{\text{Response of PCB-118}}{\text{Response of 13C12-PCB-118}} \times \frac{\text{pg of 13C12-PCB-118 spiked}}{\text{Mean RRF} * \text{Sample Size}}$$

pg/L	=	**52784** / **2375000.3**	x	**4000** / **1.17** * **1.10**	=	**69.0**	**69.0**		

Calculation of 13C12-PCB-118 Recovery in L2625428-1

$$\%\ Recovery = \frac{\text{Response of 13C12-PCB-118}}{\text{Response of 13C12-PCB-101}} \times \frac{\text{pg of 13C12-PCB-101 spiked} * 100}{\text{Mean RRF} * \text{pg 13C12-PCB-118 Spiked}}$$

% Recovery	=	**2375000.3** / **2447065.3**	x	**4000** * **100** / **1.42** * **4000**	=	**68**	**68**	**%**	

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SVOC DATA PACKAGE

SECTION 7: SHIPPING/RECEIVING DOCUMENTS

Including:

- Airbills
- Chain-of-Custody Records
- Sample Log-in Sheet(s) - where applicable
- Others as listed below:

ALS Environmental Chain of Custody

1317 South 13th Avenue • Kelso, WA 98626 • 1-360-577-7222 • FAX 1-360-636-1068

ALS Contact: Sydney A. Wolf

Project Number: K2109142
Project Manager: Sydney A. Wolf
QAP: LAB QAP

Lab Code	Sample ID	# of Cont.	Matrix	Sample Date	Sample Time	Lab ID	Cl Biphen Cong 1668C	Dioxins Furans 1613B	Misc Out 1 None	Misc Out 2 None
K2109142-001	Final Effluent	3	Water	8/4/21		Burlington ALS	X	X		X
K2109142-002	Incin. Feed	1	Soil	8/4/21		Burlington ALS	X	X	X	

L2625428-COFC

Test Comments

Dioxins Furans - 1613B	K2109142-001,2	Burlington
Cl Biphen Cong - 1668C	K2109142-002	Burlington
Misc Out 1 - None	K2109142-002	PBDEs Burlington
Misc Out 2 - None	K2109142-001	PBDEs Burlington

Special Instructions/Comments

Please provide the electronic (PDF and EDD) report to the following e-mail address: ALKLS.Data@alsglobal.com.

H - Test is On Hold P - Test is Authorized for Prep Only

Turnaround Requirements

____ **RUSH** (Surcharges Apply)

PLEASE CIRCLE WORK DAYS

1 2 3 4 5

X **STANDARD**

Requested FAX Date: _____

Requested Report Date: 09/08/21

Report Requirements

____ I. Results Only

____ II. Results + QC Summaries

____ III. Results + QC and Calibration Summaries

X IV. Data Validation Report with Raw Data

PQL/MDL/J Y

EDD N

Invoice Information

PO# 51K2109142

Bill to

Relinquished By: [signature] 8/9/21 Received By: AARON BOLTON

Airbill Number:

15:40 3.8°C

Sample Receiving Log

Date/Time Received	Client ID	Number/Description of Containers	Temp. on Receipt*	Condition of Samples, Courier & Tracking Information	Receiver's Initials	Date/Time Login Completed	Submission ID	Sample ID Range
10-Aug-24 15:40	ALS KELSO	44 x jars of sediment 28 x 1L amber bottles	3.8°C	Good FedEx 9340 2499 2668	NJ	11-Aug-2024 16:10	L2625333	-1-17
							L2625409	-1-18
							L2625400	-1-13
							L2625392	-1-11
							L2625417	-1-5
							L2625428	-1-2

*Temperatures were recorded using :

☑ VWR Traceable dedicated I.R. gun (model 36934-178 SN 192108143)

☐ Other (specify): _____

BU-FM-0261c v03 Sample Receiving Log

Date Issued: 18-Jul-2019

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1435 Norjohn Court, Unit 1, Burlington, ON, Canada L7L 0E6

SVOC DATA PACKAGE

Client Project Information

Project ID: K2109142
Project Description:
Contact: Sydney Wolf

ALSE Project Information

Project ID: ALS880
Contact: Claire Kocharakkal
Submission ID(s): L2625428-2

Final Package Review by:

Date Reviewed: 19-Nov-21

1435 Norjohn Court, Unit 1, Burlington, ON, Canada L7L 0E6

SVOC DATA PACKAGE

SECTION 1: PROJECT NARRATIVE

ALSE Project Information

Project ID: ALS880
Contact: Claire Kocharakkal
Submission ID(s): L2625428-2

Client Project Information

Project ID: K2109142
Project Description:
Contact: Sydney Wolf

Analytical Method: PCB Congeners by EPA 1668C

ALS Sample ID	Client Sample Descriptions	Matrix	Date Sampled	Date Received	Date Extracted	Date Analyzed
L2625428-2	INCIN. FEED	Soil	04-Aug-21	10-Aug-21	03-Sep-21	03-Nov-21
WG3603574-1	Method Blank	QC	n/a	n/a	03-Sep-21	03-Nov-21
WG3603574-2	Laboratory Control Sample	QC	n/a	n/a	03-Sep-21	02-Nov-21

Comments and Notes:
a) Sample Integrity:

The sample was received in good condition at 3.8 degrees C.

b) Instrumental Analysis:

All results have been reported on a dry weight basis.

No criteria failures or exceedances.

I certify that this data package is in compliance with the terms and condition of the contract , both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this data package (hardcopy and/or electronic version) has been authorized by the Laboratory Manager or his designee, as verified by the following signature.

Steve Kennedy, Technical Supervisor — 19-Nov-21 (Date)

1435 Norjohn Court, Unit 1, Burlington, ON, Canada L7L 0E6

SVOC DATA PACKAGE

SECTION 2: DATA SUMMARY REPORT

1435 Norjohn Court, Unit 1, Burlington, ON, Canada L7L 0E6
Phone: 905-331-3111, FAX: 905-331-4567

Certificate of Analysis

ALS Project Contact:	Claire Kocharakkal	**Client Name:**	ALS Environmental - Kelso
ALS Project ID:	ALS880	**Client Address:**	1317 South 13th Avenue
ALS WO#:	L2625428-2		Kelso, WA 98626
Date of Report	22-Nov-21		USA
Date of Sample Receipt	10-Aug-21	**Client Contact:**	Sydney Wolf
		Client Project ID:	K2109142

COMMENTS: **PCB Congeners by EPA 1668C**

PCB Congener Group Totals and Total PCB are a sum of detected values, including EMPC values, consistent with USEPA CLP SOW CBC1.2

All results have been reported on a dry weight basis.

Certified by:

Steve Kennedy
Technical Supervisor

Results in this certificate relate only to the samples as submitted to the laboratory.
This report shall not be reproduced, except in full, without the written permission of ALS Canada Ltd.

ALS Life Sciences

Sample Analysis Summary Report

Sample Name	**INCIN. FEED**
ALS Sample ID	L2625428-2
Sample Size	4.27
Sample size units	g
Percent Moisture	79.1%
Sample Matrix	Soil
Sampling Date	4-Aug-21
Extraction Date	3-Sep-21

Target Analytes	**pg/g**
PCB-001	33.0
PCB-002	80.9
PCB-003	<28
PCB-004	<54
PCB-010	<15
PCB-009	<15
PCB-007	<15
PCB-006	<41
PCB-005	<18
PCB-008	<71
PCB-014	<22
PCB-011	768
PCB-012/013	<23
PCB-015	<77
PCB-019	31.2
PCB-018/030	170
PCB-017	90.8
PCB-027	11.9
PCB-024	<5.7
PCB-016	79.8
PCB-032	58.9
PCB-034	<7.1
PCB-023	<6.7
PCB-026/029	54.9
PCB-025	<18
PCB-031	296
PCB-020/028	376
PCB-021/033	95.3
PCB-022	113
PCB-036	<6.2
PCB-039	<6.5
PCB-038	<7.0
PCB-035	33.0
PCB-037	<94
PCB-054	<4.7
PCB-050/053	41.7
PCB-045/051	79.7
PCB-046	19.6
PCB-052	883
PCB-073	<4.4
PCB-043	<28
PCB-049/069	277
PCB-048	79.9
PCB-044/047/065	622
PCB-059/062/075	27.9
PCB-042	93.2
PCB-040/041/071	200
PCB-064	187
PCB-072	<6.3
PCB-068	<30
PCB-057	<6.7
PCB-058	<6.6
PCB-067	10.4
PCB-063	17.1
PCB-061/070/074/076	1160
PCB-066	375
PCB-055	<12
PCB-056	181
PCB-060	103
PCB-080	<5.6
PCB-079	14.3
PCB-078	<6.4
PCB-081	<6.4
PCB-077	40.6
PCB-104	<4.4
PCB-096	<4.3
PCB-103	<10
PCB-094	<10
PCB-095	889
PCB-093/098/100/102	<34

ALS Life Sciences

Sample Analysis Summary Report

Sample Name	INCIN. FEED
ALS Sample ID	L2625428-2
Sample Size	4.27
Sample size units	g
Percent Moisture	79.1%
Sample Matrix	Soil
Sampling Date	4-Aug-21
Extraction Date	3-Sep-21

Target Analytes	pg/g
PCB-088/091	146
PCB-084	314
PCB-089	13.1
PCB-121	8.49
PCB-092	240
PCB-090/101/113	1350
PCB-083/099	693
PCB-112	<7.0
PCB-086/087/097/109/119/125	858
PCB-085/110/115/116/117	1750
PCB-082	170
PCB-111	<6.8
PCB-120	<6.3
PCB-108/124	47.6
PCB-107	71.7
PCB-123	16.6
PCB-106	<6.8
PCB-118	1250
PCB-122	17.2
PCB-114	33.7
PCB-105	437
PCB-127	<6.6
PCB-126	<9.0
PCB-155	73.5
PCB-152	<2.7
PCB-150	<4.3
PCB-136	112
PCB-145	<3.0
PCB-148	<4.9
PCB-135/151	359
PCB-154	14.8
PCB-144	65.6
PCB-147/149	872
PCB-134/143	50.1
PCB-139/140	31.4
PCB-131	<21
PCB-142	<8.2
PCB-132	405
PCB-133	19.7
PCB-165	<5.7
PCB-146	166
PCB-161	<5.2
PCB-153/168	1040
PCB-141	228
PCB-130	72.5
PCB-137/164	<140
PCB-129/138/163	1450
PCB-160	<4.5
PCB-158	120
PCB-128/166	187
PCB-159	6.92
PCB-162	<5.5
PCB-167	48.1
PCB-156/157	177
PCB-169	<6.1
PCB-188	<3.2
PCB-179	91.8
PCB-184	144
PCB-176	27.8
PCB-186	<3.3
PCB-178	53.7
PCB-175	<9.6
PCB-187	323
PCB-182	<4.4
PCB-183	142
PCB-185	22.0
PCB-174	<190
PCB-177	107
PCB-181	<4.5
PCB-171/173	60.4
PCB-172	<33

ALS Life Sciences

Sample Analysis Summary Report

Sample Name	**INCIN. FEED**
ALS Sample ID	L2625428-2
Sample Size	4.27
Sample size units	g
Percent Moisture	79.1%
Sample Matrix	Soil
Sampling Date	4-Aug-21
Extraction Date	3-Sep-21

Target Analytes	**pg/g**
PCB-192	<3.7
PCB-180/193	553
PCB-191	14.7
PCB-170	192
PCB-190	43.3
PCB-189	8.87
PCB-202	41.7
PCB-201	24.9
PCB-204	<7.1
PCB-197	13.1
PCB-200	<14
PCB-198/199	173
PCB-196	68.5
PCB-203	97.6
PCB-195	32.5
PCB-194	112
PCB-205	<4.0
PCB-208	<29
PCB-207	<13
PCB-206	88.2
PCB-209	45.4

Extraction Standards	**% Rec**
13C12-PCB-001	57
13C12-PCB-003	64
13C12-PCB-004	52
13C12-PCB-015	66
13C12-PCB-019	45
13C12-PCB-037	84
13C12-PCB-054	35
13C12-PCB-081	73
13C12-PCB-077	75
13C12-PCB-104	46
13C12-PCB-123	70
13C12-PCB-118	68
13C12-PCB-114	72
13C12-PCB-105	74
13C12-PCB-126	78
13C12-PCB-155	57
13C12-PCB-167	70
13C12-PCB-156/157	67
13C12-PCB-169	80
13C12-PCB-188	58
13C12-PCB-189	67
13C12-PCB-202	60
13C12-PCB-205	59
13C12-PCB-208	72
13C12-PCB-206	62
13C12-PCB-209	45

Cleanup Standards	
13C12-PCB-028	30
13C12-PCB-111	41
13C12-PCB-178	34

ALS Life Sciences

Sample Analysis Summary Report

Sample Name	**INCIN. FEED**
ALS Sample ID	L2625428-2
Sample Size	4.27
Sample size units	g
Percent Moisture	79.1%
Sample Matrix	Soil
Sampling Date	4-Aug-21
Extraction Date	3-Sep-21

Target Analytes	**pg/g**
Homologue Group Totals	
Total MonoCB	142
Total DiCB	1010
Total TriCB	1520
Total TetraCB	4480
Total PentaCB	8350
Total HexaCB	5670
Total HeptaCB	2020
Total OctaCB	584
Total NonaCB	130
DecaCB	45.4
Total PCB	24000
Toxic Equivalency - (WHO 2005)	
Lower Bound PCB TEQ	0.0632
Mid Point PCB TEQ	0.606
Upper Bound PCB TEQ	1.15

ALS Life Sciences

Quality Control Summary Report

Sample Name	Method Blank
ALS Sample ID	WG3603574-1
Sample Size	4.00
Sample size units	g
Percent Moisture	n/a
Sample Matrix	QC
Sampling Date	n/a
Extraction Date	3-Sep-21

Target Analytes	pg/g
PCB-001	<0.61
PCB-002	<0.52
PCB-003	1.84
PCB-004	2.23
PCB-010	<0.43
PCB-009	0.552
PCB-007	0.888
PCB-006	<0.51
PCB-005	<0.52
PCB-008	2.84
PCB-014	<0.39
PCB-011	11.0
PCB-012/013	<0.42
PCB-015	<0.83
PCB-019	<0.62
PCB-018/030	1.89
PCB-017	<0.20
PCB-027	<0.14
PCB-024	<0.14
PCB-016	<0.81
PCB-032	0.608
PCB-034	<0.14
PCB-023	<0.14
PCB-026/029	<0.42
PCB-025	0.177
PCB-031	1.93
PCB-020/028	2.78
PCB-021/033	1.36
PCB-022	<0.74
PCB-036	<0.13
PCB-039	<0.13
PCB-038	<0.14
PCB-035	0.293
PCB-037	<0.66
PCB-054	<0.096
PCB-050/053	0.233
PCB-045/051	0.681
PCB-046	<0.12
PCB-052	2.10
PCB-073	<0.076
PCB-043	<0.11
PCB-049/069	0.977
PCB-048	<0.27
PCB-044/047/065	3.02
PCB-059/062/075	<0.19
PCB-042	0.599
PCB-040/041/071	0.871
PCB-064	0.799
PCB-072	<0.10
PCB-068	<0.21
PCB-057	<0.11
PCB-058	<0.11
PCB-067	<0.093
PCB-063	<0.10
PCB-061/070/074/076	2.60
PCB-066	1.26
PCB-055	<0.11
PCB-056	<0.64
PCB-060	0.324
PCB-080	<0.092
PCB-079	<0.091
PCB-078	<0.10
PCB-081	<0.11
PCB-077	<0.20
PCB-104	<0.10
PCB-096	<0.090
PCB-103	<0.11
PCB-094	<0.13
PCB-095	1.30
PCB-093/098/100/102	<0.13

ALS Life Sciences

Quality Control Summary Report

Sample Name	Method Blank
ALS Sample ID	WG3603574-1
Sample Size	4.00
Sample size units	g
Percent Moisture	n/a
Sample Matrix	QC
Sampling Date	n/a
Extraction Date	3-Sep-21

Target Analytes	pg/g
PCB-088/091	<0.20
PCB-084	0.423
PCB-089	<0.14
PCB-121	<0.091
PCB-092	0.305
PCB-090/101/113	1.71
PCB-083/099	1.05
PCB-112	<0.092
PCB-086/087/097/109/119/125	1.10
PCB-085/110/115/116/117	2.26
PCB-082	<0.15
PCB-111	<0.089
PCB-120	<0.083
PCB-108/124	<0.10
PCB-107	<0.10
PCB-123	<0.11
PCB-106	<0.099
PCB-118	<1.1
PCB-122	<0.11
PCB-114	<0.10
PCB-105	<0.51
PCB-127	<0.096
PCB-126	<0.11
PCB-155	<0.061
PCB-152	<0.060
PCB-150	<0.063
PCB-136	0.318
PCB-145	<0.065
PCB-148	<0.085
PCB-135/151	0.815
PCB-154	0.0760
PCB-144	<0.086
PCB-147/149	2.05
PCB-134/143	<0.11
PCB-139/140	<0.099
PCB-131	<0.12
PCB-142	<0.11
PCB-132	<0.56
PCB-133	<0.10
PCB-165	<0.076
PCB-146	0.356
PCB-161	<0.070
PCB-153/168	1.77
PCB-141	0.500
PCB-130	<0.11
PCB-137/164	<0.25
PCB-129/138/163	2.55
PCB-160	<0.060
PCB-158	0.176
PCB-128/166	0.336
PCB-159	<0.068
PCB-162	<0.073
PCB-167	<0.13
PCB-156/157	0.278
PCB-169	<0.077
PCB-188	<0.069
PCB-179	0.331
PCB-184	<0.064
PCB-176	<0.068
PCB-186	<0.070
PCB-178	0.175
PCB-175	<0.092
PCB-187	0.744
PCB-182	<0.093
PCB-183	0.305
PCB-185	<0.090
PCB-174	0.796
PCB-177	0.415
PCB-181	<0.095
PCB-171/173	<0.16
PCB-172	<0.097

ALS Life Sciences

Quality Control Summary Report

Sample Name	Method Blank
ALS Sample ID	WG3603574-1
Sample Size	4.00
Sample size units	g
Percent Moisture	n/a
Sample Matrix	QC
Sampling Date	n/a
Extraction Date	3-Sep-21

Target Analytes	pg/g
PCB-192	<0.078
PCB-180/193	<1.1
PCB-191	<0.069
PCB-170	<0.59
PCB-190	0.138
PCB-189	<0.072
PCB-202	<0.067
PCB-201	<0.068
PCB-204	<0.070
PCB-197	<0.070
PCB-200	<0.068
PCB-198/199	0.259
PCB-196	0.156
PCB-203	<0.13
PCB-195	<0.092
PCB-194	0.700
PCB-205	<0.089
PCB-208	<0.15
PCB-207	<0.17
PCB-206	<0.28
PCB-209	<0.12
Extraction Standards	**% Rec**
13C12-PCB-001	23
13C12-PCB-003	39
13C12-PCB-004	35
13C12-PCB-015	50
13C12-PCB-019	31
13C12-PCB-037	56
13C12-PCB-054	26
13C12-PCB-081	51
13C12-PCB-077	53
13C12-PCB-104	30
13C12-PCB-123	51
13C12-PCB-118	50
13C12-PCB-114	53
13C12-PCB-105	52
13C12-PCB-126	59
13C12-PCB-155	38
13C12-PCB-167	53
13C12-PCB-156/157	51
13C12-PCB-169	61
13C12-PCB-188	43
13C12-PCB-189	53
13C12-PCB-202	45
13C12-PCB-205	49
13C12-PCB-208	54
13C12-PCB-206	50
13C12-PCB-209	40
Cleanup Standards	
13C12-PCB-028	25
13C12-PCB-111	29
13C12-PCB-178	30

ALS Life Sciences

Quality Control Summary Report

Sample Name	Method Blank
ALS Sample ID	WG3603574-1
Sample Size	4.00
Sample size units	g
Percent Moisture	n/a
Sample Matrix	QC
Sampling Date	n/a
Extraction Date	3-Sep-21
Target Analytes	**pg/g**
Homologue Group Totals	
Total MonoCB	2.97
Total DiCB	18.9
Total TriCB	12.3
Total TetraCB	15.0
Total PentaCB	9.96
Total HexaCB	10.2
Total HeptaCB	4.75
Total OctaCB	1.25
Total NonaCB	<0.15
DecaCB	0.120
Total PCB	75.4
Toxic Equivalency - (WHO 2005)	
Lower Bound PCB TEQ	0.00000834
Mid Point PCB TEQ	0.00676
Upper Bound PCB TEQ	0.0134

ALS Life Sciences

Sample Analysis Summary Report

Sample Name	Laboratory Control Sample
ALS Sample ID	WG3603574-2
Sample Size	1
Sample size units	n/a
Percent Moisture	n/a
Sample Matrix	QC
Sampling Date	n/a
Extraction Date	3-Sep-21

Target Analytes	% Rec
PCB-001	96
PCB-003	93
PCB-004	109
PCB-015	99
PCB-019	107
PCB-037	100
PCB-054	104
PCB-081	94
PCB-077	94
PCB-104	96
PCB-123	96
PCB-118	98
PCB-114	97
PCB-105	93
PCB-126	90
PCB-155	103
PCB-167	99
PCB-156/157	97
PCB-169	100
PCB-188	106
PCB-189	99
PCB-202	107
PCB-205	100
PCB-208	90
PCB-206	87
PCB-209	99

Extraction Standards	% Rec
13C12-PCB-001	26
13C12-PCB-003	36
13C12-PCB-004	31
13C12-PCB-015	49
13C12-PCB-019	28
13C12-PCB-037	59
13C12-PCB-054	25
13C12-PCB-081	56
13C12-PCB-077	58
13C12-PCB-104	33
13C12-PCB-123	56
13C12-PCB-118	54
13C12-PCB-114	59
13C12-PCB-105	57
13C12-PCB-126	63
13C12-PCB-155	41
13C12-PCB-167	59
13C12-PCB-156/157	56
13C12-PCB-169	68
13C12-PCB-188	47
13C12-PCB-189	60
13C12-PCB-202	49
13C12-PCB-205	51
13C12-PCB-208	59
13C12-PCB-206	53
13C12-PCB-209	40

Cleanup Standards	
13C12-PCB-028	26
13C12-PCB-111	32
13C12-PCB-178	34

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Sample Analysis Summary Report

Sample Name	CVS	CCV	CCV
ALS Sample ID	H5-20-RS1-1035	H5_21_CCV_944	H5_21_CCV_946
Sample Size	1	1	1
Sample size units	n/a	n/a	n/a
Percent Moisture	n/a	n/a	n/a
Sample Matrix	QC	QC	QC
Sampling Date	n/a	n/a	n/a
Extraction Date	n/a	n/a	n/a
Target Analytes	**% Rec**	**% Rec**	**% Rec**
PCB-001	104	91	91
PCB-003	101	85	86
PCB-004	107	98	99
PCB-015	109	96	98
PCB-019	111	101	99
PCB-037	107	98	97
PCB-054	108	99	99
PCB-081	103	97	97
PCB-077	103	95	96
PCB-104	98	104	105
PCB-123	104	97	97
PCB-118	103	101	101
PCB-114	104	94	96
PCB-105	101	95	96
PCB-126	101	98	98
PCB-155	100	103	102
PCB-167	100	101	101
PCB-156/157	103	102	102
PCB-169	106	103	101
PCB-188	103	104	106
PCB-189	103	99	100
PCB-202	105	103	103
PCB-205	99	102	101
PCB-208	98	94	94
PCB-206	95	94	96
PCB-209	105	90	91
Extraction Standards	**% Rec**	**% Rec**	**% Rec**
13C12-PCB-001	97	91	90
13C12-PCB-003	97	99	96
13C12-PCB-004	94	88	88
13C12-PCB-015	98	106	103
13C12-PCB-019	92	80	80
13C12-PCB-037	94	104	105
13C12-PCB-054	92	72	72
13C12-PCB-081	94	98	98
13C12-PCB-077	93	103	99
13C12-PCB-104	92	67	66
13C12-PCB-123	93	95	93
13C12-PCB-118	94	94	93
13C12-PCB-114	92	101	99
13C12-PCB-105	93	103	102
13C12-PCB-126	92	108	112
13C12-PCB-155	91	77	78
13C12-PCB-167	98	100	99
13C12-PCB-156/157	97	99	100
13C12-PCB-169	101	110	113
13C12-PCB-188	92	85	82
13C12-PCB-189	104	106	103
13C12-PCB-202	94	85	85
13C12-PCB-205	97	92	94
13C12-PCB-208	94	96	98
13C12-PCB-206	97	94	94
13C12-PCB-209	99	83	82
Cleanup Standards			
13C12-PCB-028	101	99	100
13C12-PCB-111	99	103	103
13C12-PCB-178	99	96	95

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Sample Analysis Report

Sample Name	**INCIN. FEED**	Sampling Date	4-Aug-21		
ALS Sample ID	L2625428-2	Extraction Date	3-Sep-21		Approved:
Analysis Method	EPA 1668C	Sample Size	4.27	g	*N Ashtari*
Analysis Type	Sample	Percent Moisture	79.1%		--e-signature--
Sample Matrix	Soil	Split Ratio	2		11-Nov-2021

Run Information	**Run 1**
Filename	5_211102A23
Run Date	03-Nov-21 01:31
Final Volume	40 ul
Dilution Factor	20
Analysis Units	pg/g
Instrument - Column	HRMS-5 SPBOCTYL256001-02

Target Analytes	**TEF (WHO 2005)**	**Ret. Time**	**Conc. pg/g**	**EDL pg/g**	**Flags**	**EMPC pg/g**	**LQL**
PCB-001		8.90	33.0	3.1	J		370
PCB-002		10.31	80.9	3.5	M,J		370
PCB-003		10.44	<28	3.4	M,J,R	28	370
PCB-004		10.59	<54	28	M,J,R	54	370
PCB-010		NotFnd	<15	15	U		370
PCB-009		NotFnd	<15	15	U		370
PCB-007		NotFnd	<15	15	U		370
PCB-006		12.12	<41	15	M,J,R	41	370
PCB-005		NotFnd	<18	18	U		370
PCB-008		12.40	<71	13	J,R	71	370
PCB-014		NotFnd	<22	22	U		370
PCB-011		13.90	768	23	M		370
PCB-012/013		NotFnd	<23	23	U		370
PCB-015		14.30	<77	25	M,J,R	77	370
PCB-019		12.60	31.2	10	M,J		370
PCB-018/030		13.71	170	6.3	J		370
PCB-017		13.96	90.8	8.1	J		370
PCB-027		14.08	11.9	5.5	J		370
PCB-024		NotFnd	<5.7	5.7	U		370
PCB-016		14.24	79.8	8.5	J		370
PCB-032		14.53	58.9	5.0	J		370
PCB-034		NotFnd	<7.1	7.1	U		370
PCB-023		NotFnd	<6.7	6.7	U		370
PCB-026/029		15.49	54.9	6.9	M,J		370
PCB-025		15.64	<18	5.8	M,J,R	18	370
PCB-031		15.81	296	6.2	J		370
PCB-020/028		15.99	376	7.2	M		370
PCB-021/033		16.13	95.3	6.4	M,J		370
PCB-022		16.36	113	6.7	J		370
PCB-036		NotFnd	<6.2	6.2	U		370
PCB-039		NotFnd	<6.5	6.5	U		370
PCB-038		NotFnd	<7.0	7.0	U		370
PCB-035		17.99	33.0	7.0	J		370
PCB-037		18.24	<94	8.3	M,J,R	94	370
PCB-054		NotFnd	<4.7	4.7	U		370
PCB-050/053		15.66	41.7	5.5	J		370
PCB-045/051		16.08	79.7	5.7	J		370
PCB-046		16.24	19.6	6.9	J		370
PCB-052		16.98	883	5.5	M		370
PCB-073		NotFnd	<4.4	4.4	U		370
PCB-043		17.10	<28	6.3	M,J,R	28	370
PCB-049/069		17.25	277	4.9	J		370
PCB-048		17.42	79.9	5.7	J		370
PCB-044/047/065		17.55	622	5.2			370
PCB-059/062/075		17.72	27.9	4.2	J		370
PCB-042		17.84	93.2	5.9	J		370
PCB-040/041/071		18.11	200	5.9	J		370
PCB-064		18.23	187	4.1	J		370
PCB-072		NotFnd	<6.3	6.3	U		370
PCB-068		18.79	<30	5.8	M,J,R	30	370
PCB-057		NotFnd	<6.7	6.7	U		370
PCB-058		19.16	<6.6	6.6	M,U	3.8	370
PCB-067		19.26	10.4	5.7	M,J		370
PCB-063		19.40	17.1	6.1	M,J		370
PCB-061/070/074/076		19.59	1160	6.6			370
PCB-066		19.77	375	6.0	M		370
PCB-055		19.88	<12	6.6	M,J,R	12	370
PCB-056		20.15	181	6.8	J		370
PCB-060		20.27	103	6.5	J		370
PCB-080		NotFnd	<5.6	5.6	U		370
PCB-079		21.25	14.3	5.5	M,J		370
PCB-078		NotFnd	<6.4	6.4	U		370
PCB-081	0.0003	21.83	<6.4	6.4	M,U	2.4	370
PCB-077	0.0001	22.12	40.6	6.8	J		370
PCB-104		NotFnd	<4.4	4.4	U		370
PCB-096		NotFnd	<4.3	4.3	U		370
PCB-103		18.74	<10	8.5	J,R	10	370
PCB-094		NotFnd	<10	10	U		370
PCB-095		19.13	889	9.3	M		370
PCB-093/098/100/102		19.30	<34	9.6	M,J,R	34	370

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Sample Analysis Report

Sample Name	**INCIN. FEED**	Sampling Date	4-Aug-21		
ALS Sample ID	L2625428-2	Extraction Date	3-Sep-21		Approved:
Analysis Method	EPA 1668C	Sample Size	4.27	g	*N Ashtari*
Analysis Type	Sample	Percent Moisture	79.1%		--e-signature--
Sample Matrix	Soil	Split Ratio	2		11-Nov-2021

Run Information	**Run 1**
Filename	5_211102A23
Run Date	03-Nov-21 01:31
Final Volume	40 ul
Dilution Factor	20
Analysis Units	pg/g
Instrument - Column	HRMS-5 SPBOCTYL256001-02

Target Analytes	**TEF (WHO 2005)**	**Ret. Time**	**Conc. pg/g**	**EDL pg/g**	**Flags**	**EMPC pg/g**	**LQL**
PCB-088/091		19.59	146	9.6	J		370
PCB-084		19.74	314	11	J		370
PCB-089		19.99	13.1	10	J		370
PCB-121		20.12	8.49	7.0	J		370
PCB-092		20.35	240	9.7	J		370
PCB-090/101/113		20.65	1350	8.2			370
PCB-083/099		20.96	693	9.8			370
PCB-112		NotFnd	<7.0	7.0	U		370
PCB-086/087/097/109/119/125		21.31	858	8.2	M		370
PCB-085/110/115/116/117		21.73	1750	7.5	M		370
PCB-082		21.92	170	11	J		370
PCB-111		22.09	<6.8	6.8	M,U	1.2	370
PCB-120		22.27	<6.3	6.3	M,U		370
PCB-108/124		22.90	47.6	7.0	J		370
PCB-107		23.04	71.7	7.0	M,J		370
PCB-123	0.00003	23.10	16.6	8.0	M,J		370
PCB-106		NotFnd	<6.8	6.8	U		370
PCB-118	0.00003	23.28	1250	7.6	M		370
PCB-122		23.47	17.2	7.6	M,J		370
PCB-114	0.00003	23.57	33.7	7.2	J		370
PCB-105	0.00003	23.93	437	7.7			370
PCB-127		NotFnd	<6.6	6.6	U		370
PCB-126	0.1	25.51	<9.0	9.0	M,U	2.3	370
PCB-155		20.51	73.5	2.3	J		370
PCB-152		NotFnd	<2.7	2.7	U		370
PCB-150		20.74	<4.3	2.9	M,J,R	4.3	370
PCB-136		20.97	112	2.9	J		370
PCB-145		NotFnd	<3.0	3.0	U		370
PCB-148		21.84	<4.9	3.9	J,R	4.9	370
PCB-135/151		22.17	359	4.1	M,J		370
PCB-154		22.27	14.8	3.4	M,J		370
PCB-144		22.47	65.6	3.9	J		370
PCB-147/149		22.66	872	7.6	M		370
PCB-134/143		22.79	50.1	8.6	J		370
PCB-139/140		22.98	31.4	7.5	J		370
PCB-131		23.11	<21	9.0	J,R	21	370
PCB-142		NotFnd	<8.2	8.2	U		370
PCB-132		23.36	405	8.2			370
PCB-133		23.54	19.7	7.6	J		370
PCB-165		NotFnd	<5.7	5.7	U		370
PCB-146		23.88	166	7.0	J		370
PCB-161		NotFnd	<5.2	5.2	U		370
PCB-153/168		24.20	1040	5.8			370
PCB-141		24.33	228	7.5	J		370
PCB-130		24.55	72.5	8.3	J		370
PCB-137/164		24.72	<140	6.4	M,J,R	140	370
PCB-129/138/163		24.89	1450	7.7			370
PCB-160		NotFnd	<4.5	4.5	U		370
PCB-158		25.08	120	4.9	J		370
PCB-128/166		25.57	187	6.2	J		370
PCB-159		26.01	6.92	5.1	J		370
PCB-162		NotFnd	<5.5	5.5	U		370
PCB-167	0.00003	26.41	48.1	5.4	M,J		370
PCB-156/157	0.00003	27.04	177	8.0	J		750
PCB-169	0.03	NotFnd	<6.1	6.1	U		370
PCB-188		NotFnd	<3.2	3.2	U		370
PCB-179		23.73	91.8	3.1	M,J		370
PCB-184		23.94	144	3.0	J		370
PCB-176		24.17	27.8	3.2	J		370
PCB-186		NotFnd	<3.3	3.3	U		370
PCB-178		25.07	53.7	4.6	J		370
PCB-175		25.41	<9.6	4.3	J,R	9.6	370
PCB-187		25.54	323	3.9	J		370
PCB-182		NotFnd	<4.4	4.4	U		370
PCB-183		25.85	142	4.1	J		370
PCB-185		25.94	22.0	4.3	M,J		370
PCB-174		26.01	<190	4.6	M,J,R	190	370
PCB-177		26.24	107	4.6	J		370
PCB-181		26.46	<4.5	4.5	M,U	3.5	370
PCB-171/173		26.58	60.4	4.8	J		370
PCB-172		27.36	<33	4.6	M,J,R	33	370

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Sample Analysis Report

Sample Name	**INCIN. FEED**	Sampling Date	4-Aug-21		
ALS Sample ID	L2625428-2	Extraction Date	3-Sep-21		Approved:
Analysis Method	EPA 1668C	Sample Size	4.27	g	*N Ashtari*
Analysis Type	Sample	Percent Moisture	79.1%		--e-signature--
Sample Matrix	Soil	Split Ratio	2		11-Nov-2021

Run Information	**Run 1**
Filename	5_211102A23
Run Date	03-Nov-21 01:31
Final Volume	40 ul
Dilution Factor	20
Analysis Units	pg/g
Instrument - Column	HRMS-5 SPBOCTYL256001-02

Target Analytes	**TEF (WHO 2005)**	**Ret. Time**	**Conc. pg/g**	**EDL pg/g**	**Flags**	**EMPC pg/g**	**LQL**
PCB-192		NotFnd	<3.7	3.7	U		370
PCB-180/193		27.70	553	3.8			370
PCB-191		27.88	14.7	3.2	J		370
PCB-170		28.39	192	4.8	J		370
PCB-190		28.66	43.3	3.0	J		370
PCB-189	0.00003	29.98	8.87	2.9	M,J		370
PCB-202		26.27	41.7	2.7	J		370
PCB-201		26.75	24.9	3.0	J		370
PCB-204		27.08	<7.1	3.1	M,J,R	7.1	370
PCB-197		27.22	13.1	3.1	M,J		370
PCB-200		27.30	<14	3.0	J,R	14	370
PCB-198/199		28.70	173	4.3	J		370
PCB-196		29.04	68.5	4.3	J		370
PCB-203		29.14	97.6	3.9	J		370
PCB-195		29.87	32.5	3.8	J		370
PCB-194		31.08	112	3.5	J		370
PCB-205		NotFnd	<4.0	4.0	U		370
PCB-208		29.69	<29	8.2	J,R	29	370
PCB-207		30.17	<13	9.7	M,J,R	13	370
PCB-206		32.42	88.2	17	J		370
PCB-209		33.55	45.4	3.5	J		370

Extraction Standards	**pg**	**Time**	**% Rec**	**Limits**	
13C12-PCB-001	4000	8.88	57	5-145	R
13C12-PCB-003	4000	10.42	64	5-145	
13C12-PCB-004	4000	10.58	52	5-145	
13C12-PCB-015	4000	14.28	66	5-145	
13C12-PCB-019	4000	12.58	45	5-145	
13C12-PCB-037	4000	18.22	84	5-145	
13C12-PCB-054	4000	14.44	35	5-145	
13C12-PCB-081	4000	21.80	73	10-145	
13C12-PCB-077	4000	22.11	75	10-145	
13C12-PCB-104	4000	17.49	46	10-145	
13C12-PCB-123	4000	23.08	70	10-145	
13C12-PCB-118	4000	23.25	68	10-145	
13C12-PCB-114	4000	23.56	72	10-145	
13C12-PCB-105	4000	23.92	74	10-145	
13C12-PCB-126	4000	25.51	78	10-145	
13C12-PCB-155	4000	20.49	57	10-145	
13C12-PCB-167	4000	26.40	70	10-145	
13C12-PCB-156/157	8000	27.04	67	10-145	
13C12-PCB-169	4000	28.69	80	10-145	
13C12-PCB-188	4000	23.50	58	10-145	
13C12-PCB-189	4000	29.96	67	10-145	
13C12-PCB-202	4000	26.26	60	10-145	
13C12-PCB-205	4000	31.35	59	10-145	
13C12-PCB-208	4000	29.69	72	10-145	
13C12-PCB-206	4000	32.42	62	10-145	
13C12-PCB-209	4000	33.53	45	10-145	
Cleanup Standards					
13C12-PCB-028	4000	15.98	30	5-145	R
13C12-PCB-111	4000	22.02	41	10-145	
13C12-PCB-178	4000	25.07	34	10-145	

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Sample Analysis Report

Sample Name	**INCIN. FEED**	Sampling Date	4-Aug-21		
ALS Sample ID	L2625428-2	Extraction Date	3-Sep-21		Approved:
Analysis Method	EPA 1668C	Sample Size	4.27	g	*N Ashtari*
Analysis Type	Sample	Percent Moisture	79.1%		--e-signature--
Sample Matrix	Soil	Split Ratio	2		11-Nov-2021

Run Information	**Run 1**
Filename	5_211102A23
Run Date	03-Nov-21 01:31
Final Volume	40 ul
Dilution Factor	20
Analysis Units	pg/g
Instrument - Column	HRMS-5 SPBOCTYL256001-02

Target Analytes	**TEF (WHO 2005)**	**Ret. Time**	**Conc. pg/g**	**EDL pg/g**	**Flags**	**EMPC pg/g**	**LQL**
Homologue Group Totals							
Total MonoCB			142	3.1	J		1500
Total DiCB			1010	13	J		3000
Total TriCB			1520	5.0	J		3000
Total TetraCB			4480	4.1	J		6000
Total PentaCB			8350	4.3	J		6000
Total HexaCB			5670	2.3	J		6000
Total HeptaCB			2020	2.9	J		3000
Total OctaCB			584	2.7	J		3000
Total NonaCB			130	8.2	J		1500
DecaCB			45.4	3.5	J		1500
Total PCB			24000		J		12000
Toxic Equivalency - (WHO 2005)							
Lower Bound PCB TEQ			0.0632				
Mid Point PCB TEQ			0.606				
Upper Bound PCB TEQ			1.15				

EDL	Indicates the Estimated Detection Limit, based on the measured background noise for this target in this sample.
TEF	Indicates the Toxic Equivalency Factor TEQ Indicates the Toxic Equivalency
LQL	Lower Quantification Limit, based on the lowest calibration level corrected for sample size, splits and dilutions.
M	Indicates that a peak has been manually integrated.
U	Indicates that this compound was not detected above the EDL.
J	Indicates that the analyte was positively identifed. The associated numerical result is an estimate.
R	Indicates that the ion abundance ratio for this analyte did not meet the control limit. The reported value represents an estimated concentration.
EMPC	Estimated Maximum Possible Concentration – elevated detection limit due to interference or positive id criterion failure

1435 Norjohn Court, Unit 1, Burlington, ON, Canada L7L 0E6

SVOC DATA PACKAGE

SECTION 3: METHOD SUMMARY

PCB METHOD SUMMARY
Method 1668

Introduction:

This summary is to provide ALSE Burlington PCB method details in order to provide persons reviewing or validating this data package sufficient information to re-construct the sample calculation, data verification and review. It incorporates the analysis of PCBs via the following reference methods:

US EPA Office of Water, Method 1668A
US EPA Office of Water, Method 1668C

Any deviations to what is listed herein would be listed in the project narrative.

To avoid the confusion and conflicting nomenclature within the methods, we have defined the labeled standards in terms relating to the time of addition to the sample or extract. Therefore;

The Field or Sampling Standards are added prior to field sampling
The Extraction Standards are added prior to extraction
The Clean-up Standards are added prior to extract clean-up
The Injection Standards are added prior to extract injection.

Calibration Standard Levels:

Six levels of standard are available for calibration as listed in Table 1. The low point (the CS0) is below method requirements and therefore is optional.

Table 1. Concentration of CB congeners in calibration and calibration verification standards
Solution concentration (ng/mL)

CB congener	IUPAC [1]	CS-0.2 (Hi sens)2	CS-1	CS-2	CS-3 (VER)	CS-4	CS-5
Native Toxics/LOC							
2-MoCB	1	0.2	1	5	50	400	2000
4-MoCB	3	0.2	1	5	50	400	2000
2,2'-DiCB	4	0.2	1	5	50	400	2000
4,4'-DiCB	15	0.2	1	5	50	400	2000
2,2',6'-TrCB	19	0.2	1	5	50	400	2000
3,4,4'-TrCB	37	0.2	1	5	50	400	2000
2,2',6,6'-TeCB	54	0.2	1	5	50	400	2000
3,3',4,4'-TeCB	77	0.2	1	5	50	400	2000
3,4,4',5-TeCB	81	0.2	1	5	50	400	2000
2,2',4,6,6'-PeCB	104	0.2	1	5	50	400	2000
2,3,3',4,4'-PeCB	105	0.2	1	5	50	400	2000
2,3,4,4',5-PeCB	114	0.2	1	5	50	400	2000
2,3',4,4',5-PeCB	118	0.2	1	5	50	400	2000
2',3,4,4',5-PeCB	123	0.2	1	5	50	400	2000
3,3',4,4',5-PeCB	126	0.2	1	5	50	400	2000
2,2',4,4',6,6'-HxCB	155	0.2	1	5	50	400	2000
2,3,3',4,4',5-HxCB	156	0.2	1	5	50	400	2000
2,3,3',4,4',5'-HxCB	157	0.2	1	5	50	400	2000
2,3',4,4',5,5'-HxCB	167	0.2	1	5	50	400	2000
3,3',4,4',5,5'-HxCB	169	0.2	1	5	50	400	2000
2,2',3,4',5,6,6'-HpCB	188	0.2	1	5	50	400	2000
2,3,3',4,4',5,5'-HpCB	189	0.2	1	5	50	400	2000
2,2',3,3',5,5',6,6'-OcCB	202	0.2	1	5	50	400	2000
2,3,3',4,4',5,5',6-OcCB	205	0.2	1	5	50	400	2000
2,2',3,3',4,4',5,5',6-NoCB	206	0.2	1	5	50	400	2000
2,2',3,3',4',5,5',6,6'-NoCB	208	0.2	1	5	50	400	2000
DeCB 209	209	0.2	1	5	50	400	2000
Labelled Toxics/LOC/window-defining							
13C12-2-MoCB	1L	100	100	100	100	100	100
13C12-4-MoCB	3L	100	100	100	100	100	100
13C12-2,2'-DiCB	4L	100	100	100	100	100	100
13C12-4,4'-DiCB	15L	100	100	100	100	100	100
13C12-2,2',6'-TrCB	19L	100	100	100	100	100	100
13C12-3,4,4'-TrCB	37L	100	100	100	100	100	100
13C12-2,2',6,6'-TeCB	54L	100	100	100	100	100	100
13C12-3,3',4,4'-TeCB	77L	100	100	100	100	100	100
13C12-3,4,4',5-TeCB	81L	100	100	100	100	100	100
13C12-2,2',4,6,6'-PeCB	104L	100	100	100	100	100	100
13C12-2,3,3',4,4'-PeCB	105L	100	100	100	100	100	100
13C12-2,3,4,4',5-PeCB	114L	100	100	100	100	100	100
13C12-2,3',4,4',5-PeCB	118L	100	100	100	100	100	100
13C12-2',3,4,4',5-PeCB	123L	100	100	100	100	100	100
13C12-3,3',4,4',5-PeCB	126L	100	100	100	100	100	100
13C12-2,2',4,4',6,6'-HxCB	155L	100	100	100	100	100	100
13C12-2,3,3',4,4',5-HxCB	156L	100	100	100	100	100	100
13C12-2,3,3',4,4',5'-HxCB	157L	100	100	100	100	100	100
13C12-2,3',4,4',5,5'-HxCB	167L	100	100	100	100	100	100
13C12-3,3',4,4',5,5'-HxCB	169L	100	100	100	100	100	100
13C12-2,2',3,4',5,6,6'-HpCB	188L	100	100	100	100	100	100
13C12-2,3,3',4,4',5,5'-HpCB	189L	100	100	100	100	100	100
13C12-2,2',3,3',5,5',6,6'-OcCB	202L	100	100	100	100	100	100
13C12-2,3,3',4,4',5,5',6-OcCB	205L	100	100	100	100	100	100
13C12-2,2',3,3',4,4',5,5',6-NoCB	206L	100	100	100	100	100	100
13C12-2,2',3,3',4',5,5',6,6'-NoCB	208L	100	100	100	100	100	100
13C12-DeCB 209L	209L	100	100	100	100	100	100
Labelled clean-up							
13C12-2,4,4'-TrCB	28L	100	100	100	100	100	100
13C12-2,3,3',5,5'-PeCB	111L	100	100	100	100	100	100
13C12-2,2',3,3',5,5',6-HpCB	178L	100	100	100	100	100	100
Labelled injection internal							
13C12-2,5-DiCB	9L	100	100	100	100	100	100
13C12-2,2',5,5'-TeCB	52L	100	100	100	100	100	100
13C12-2,2',4',5,5'-PeCB	101L	100	100	100	100	100	100
13C12-2,2',3',4,4',5'-HxCB	138L	100	100	100	100	100	100
13C12-2,2',3,3',4,4',5,5'-OcCB	194L	100	100	100	100	100	100

Method Control Limits for 1668A

The initial and continuing calibration control limits for both methods are presented in Table 2 below. For the initial calibration CS1 and for each calibration verification CS3, the signal to noise ratio for each quantification ion for labelled and non-labelled analytes must be greater than or equal to 10:1

Table 2A. QC acceptance crtiteria for chlorinated biphenyls in VER, IPR, OPR, and samples [1]

Congener	IUPAC Number [2]	Test conc (ng/mL)	VER (%)	IPR		OPR (%)	Labelled compound recovery in samples (%)
				RSD (%)	X (%)		
2-MoCB	1	50	70-130	40	60-140	50-150	
4-MoCB	3	50	70-130	40	60-140	50-150	
2,2'-DiCB	4	50	70-130	40	60-140	50-150	
4,4'-DiCB	15	50	70-130	40	60-140	50-150	
2,2'6-TrCB	19	50	70-130	40	60-140	50-150	
3,4,4'-TrCB	37	50	70-130	40	60-140	50-150	
2,2'6,6'TeCB	54	50	70-130	40	60-140	50-150	
3,3',4,4'-TeCB	77	50	70-130	40	60-140	50-150	
3,4,4',5-TeCB	81	50	70-130	40	60-140	50-150	
2,2',4,6,6'-PeCB	104	50	70-130	40	60-140	50-150	
2,3,3',4,4'-PeCB	105	50	70-130	40	60-140	50-150	
2,3,4,4',5-PeCB	114	50	70-130	40	60-140	50-150	
2,3',4,4',5-PeCB	118	50	70-130	40	60-140	50-150	
2',3,4,4',5-PeCB	123	50	70-130	40	60-140	50-150	
3,3',4,4',5-PeCB	126	50	70-130	40	60-140	50-150	
2,2',4,4',6,6'-HxCB	155	50	70-130	40	60-140	50-150	
2,3,3',4,4',5-HxCB [3]	156	50	70-130	40	60-140	50-150	
2,3,3',4,4',5'-HxCB [3]	157	50	70-130	40	60-140	50-150	
2,3',4,4',5,5'-HxCB	167	50	70-130	40	60-140	50-150	
3,3',4,4',5,5'-HxCB	169	50	70-130	40	60-140	50-150	
2,2',3,4',5,6,6'-HpCB	188	50	70-130	40	60-140	50-150	
2,3,3',4,4',5,5'-HpCB	189	50	70-130	40	60-140	50-150	
2,2',3,3',5,5',6,6'-OcCB	202	50	70-130	40	60-140	50-150	
2,3,3',4,4',5,5',6-OcCB	205	50	70-130	40	60-140	50-150	
2,2',3,3',4,4',5,5',6-NoCB	206	50	70-130	40	60-140	50-150	
2,2',3,3,'4,5,5',6,6'-NoCB	208	50	70-130	40	60-140	50-150	
DeCB	209	50	70-130	40	60-140	50-150	
13C12-2-MoCB	1L	100	50-150	50	35-135	30-140	25-150
13C12-4-MoCB	3L	100	50-150	50	35-135	30-140	25-150
13C12-2,2'-DiCB	4L	100	50-150	50	35-135	30-140	25-150
13C12-4,4'-DiCB	15L	100	50-150	50	35-135	30-140	25-150
13C12-2,2',6-TrCB	19L	100	50-150	50	35-135	30-140	25-150
13C12-3,4,4'-TrCB	37L	100	50-150	50	35-135	30-140	25-150
13C12-2,2',6,6'-TeCB	54L	100	50-150	50	35-135	30-140	25-150
13C12-3,3',4,4'-TCB	77L	100	50-150	50	35-135	30-140	25-150
13C12-3,4,4',5-TeCB	81L	100	50-150	50	35-135	30-140	25-150
13C12-2,2',4,6,6'-PeCB	104L	100	50-150	50	35-135	30-140	25-150
13C12-2,3,3',4,4'-PeCB	105L	100	50-150	50	35-135	30-140	25-150
13C12-2,3,4,4',5-PeCB	114L	100	50-150	50	35-135	30-140	25-150
13C12-2,3',4,4',5-PeCB	118L	100	50-150	50	35-135	30-140	25-150
13C12-2',3,4,4',5-PeCB	123L	100	50-150	50	35-135	30-140	25-150
13C12-3,3',4,4',5-PeCB	126L	100	50-150	50	35-135	30-140	25-150
13C12-2,2',4,4',6,6'-HxCB	155L	100	50-150	50	35-135	30-140	25-150
13C12-2,3,3',4,4',5 –HxCB [3]	156L	100	50-150	50	35-135	30-140	25-150
13C12-2,3,3',4,4',5'-HxCB [3]	157L	100	50-150	50	35-135	30-140	25-150
13C12-2,3',4,4',5,5'-HxCB	167L	100	50-150	50	35-135	30-140	25-150
13C12-3,3',4,4',5,5'-HxCB	169L	100	50-150	50	35-135	30-140	25-150
13C12-2,2',3,4',5,6,6'-HpCB	188L	100	50-150	50	35-135	30-140	25-150
13C12-2',3,3',4,4',5,5'-HpCB	189L	100	50-150	50	35-135	30-140	25-150
13C12-2,2',3,3',5,5',6,6'-OcCB	202L	100	50-150	50	35-135	30-140	25-150
13C12-2,3,3',4,4',5,5',6-OcCB	205L	100	50-150	50	35-135	30-140	25-150
13C12-2,2',3,3',4,4',5,5',6-NoCB	206L	100	50-150	50	35-135	30-140	25-150
13C12-2,2',3,3',4,5,5',6,6'-NoCB	208L	100	50-150	50	35-135	30-140	25-150
13C12-2,2',3,3',4,4',5,5',6,6'-DeCB	209L	100	50-150	50	35-135	30-140	25-150
Cleanup standard							
13C12-2,4,4'-TrCB	28L	100	60-130	45	45-120	40-125	30-135
13C12-2,3,3',5,5'-PeCB	111L	100	60-130	45	45-120	40-125	30-135
13C12-2,2',3,3',5,5',6-HpCB	178L	100	60-130	45	45-120	40-125	30-135

1. QC acceptance criteria for IPR, OPR, and samples based on a 20 ul extract final volume
2. Suffix "L" indicates labelled compound.
3. PCBs 156 and 157 are tested as the sum of two concentrations

Method Control Limits for 1668C

The initial and continuing calibration control limits for both methods are presented in Table 2 below. For the initial calibration CS1 and for each calibration verification CS3, the signal to noise ratio for each quantification ion for labelled and non-labelled analytes must be greater than or equal to 10:1

Table 2A. QC acceptance crtiteria for chlorinated biphenyls in VER, IPR, OPR, and samples [1]

Congener	IUPAC Number [2]	Test conc (ng/mL)	VER (%)	IPR		OPR (%)	Labelled compound recovery in samples (%)
				RSD (%)	X (%)		
2-MoCB	1	50	75 - 125	25	70 - 130	60 - 135	
4-MoCB	3	50	75 - 125	25	70 - 130	60 - 135	
2,2'-DiCB	4	50	75 - 125	25	70 - 130	60 - 135	
4,4'-DiCB	15	50	75 - 125	25	70 - 130	60 - 135	
2,2'6-TrCB	19	50	75 - 125	25	70 - 130	60 - 135	
3,4,4'-TrCB	37	50	75 - 125	25	70 - 130	60 - 135	
2,2'6,6'TeCB	54	50	75 - 125	25	70 - 130	60 - 135	
3,3',4,4'-TeCB	77	50	75 - 125	25	70 - 130	60 - 135	
3,4,4',5-TeCB	81	50	75 - 125	25	70 - 130	60 - 135	
2,2',4,6,6'-PeCB	104	50	75 - 125	25	70 - 130	60 - 135	
2,3,3',4,4'-PeCB	105	50	75 - 125	25	70 - 130	60 - 135	
2,3,4,4',5-PeCB	114	50	75 - 125	25	70 - 130	60 - 135	
2,3',4,4',5-PeCB	118	50	75 - 125	25	70 - 130	60 - 135	
2',3,4,4',5-PeCB	123	50	75 - 125	25	70 - 130	60 - 135	
3,3',4,4',5-PeCB	126	50	75 - 125	25	70 - 130	60 - 135	
2,2',4,4',6,6'-HxCB	155	50	75 - 125	25	70 - 130	60 - 135	
2,3,3',4,4',5-HxCB [3]	156	50	75 - 125	25	70 - 130	60 - 135	
2,3,3',4,4',5'-HxCB [3]	157	50	75 - 125	25	70 - 130	60 - 135	
2,3',4,4',5,5'-HxCB	167	50	75 - 125	25	70 - 130	60 - 135	
3,3',4,4',5,5'-HxCB	169	50	75 - 125	25	70 - 130	60 - 135	
2,2',3,4',5,6,6'-HpCB	188	50	75 - 125	25	70 - 130	60 - 135	
2,3,3',4,4',5,5'-HpCB	189	50	75 - 125	25	70 - 130	60 - 135	
2,2',3,3',5,5',6,6'-OcCB	202	50	75 - 125	25	70 - 130	60 - 135	
2,3,3',4,4',5,5',6-OcCB	205	50	75 - 125	25	70 - 130	60 - 135	
2,2',3,3',4,4',5,5',6-NoCB	206	50	75 - 125	25	70 - 130	60 - 135	
2,2',3,3,'4,5,5',6,6'-NoCB	208	50	75 - 125	25	70 - 130	60 - 135	
DeCB	209	50	75 - 125	25	70 - 130	60 - 135	
13C12-2-MoCB	1L	100	50 - 145	70	20 - 135	5 - 145	5 - 145
13C12-4-MoCB	3L	100	50 - 145	70	20 - 135	5 - 145	5 - 145
13C12-2,2'-DiCB	4L	100	50 - 145	70	20 - 135	5 - 145	5 - 145
13C12-4,4'-DiCB	15L	100	50 - 145	70	20 - 135	5 - 145	5 - 145
13C12-2,2',6-TrCB	19L	100	50 - 145	70	20 - 135	5 - 145	5 - 145
13C12-3,4,4'-TrCB	37L	100	50 - 145	70	20 - 135	5 - 145	5 - 145
13C12-2,2',6,6'-TeCB	54L	100	50 - 145	70	20 - 135	5 - 145	5 - 145
13C12-3,3',4,4'-TeCB	77L	100	50 - 145	50	45 - 135	10 - 145	10 - 145
13C12-3,4,4',5-TeCB	81L	100	50 - 145	50	45 - 135	10 - 145	10 - 145
13C12-2,2',4,6,6'-PeCB	104L	100	50 - 145	50	45 - 135	10 - 145	10 - 145
13C12-2,3,3',4,4'-PeCB	105L	100	50 - 145	50	45 - 135	10 - 145	10 - 145
13C12-2,3,4,4',5-PeCB	114L	100	50 - 145	50	45 - 135	10 - 145	10 - 145
13C12-2,3',4,4',5-PeCB	118L	100	50 - 145	50	45 - 135	10 - 145	10 - 145
13C12-2',3,4,4',5-PeCB	123L	100	50 - 145	50	45 - 135	10 - 145	10 - 145
13C12-3,3',4,4',5-PeCB	126L	100	50 - 145	50	45 - 135	10 - 145	10 - 145
13C12-2,2',4,4',6,6'-HxCB	155L	100	50 - 145	50	45 - 135	10 - 145	10 - 145
13C12-2,3,3',4,4',5 -HxCB [3]	156L	100	50 - 145	50	45 - 135	10 - 145	10 - 145
13C12-2,3,3',4,4',5'-HxCB [3]	157L	100	50 - 145	50	45 - 135	10 - 145	10 - 145
13C12-2,3',4,4',5,5'-HxCB	167L	100	50 - 145	50	45 - 135	10 - 145	10 - 145
13C12-3,3',4,4',5,5'-HxCB	169L	100	50 - 145	50	45 - 135	10 - 145	10 - 145
13C12-2,2',3,4',5,6,6'-HpCB	188L	100	50 - 145	50	45 - 135	10 - 145	10 - 145
13C12-2',3,3',4,4',5,5'-HpCB	189L	100	50 - 145	50	45 - 135	10 - 145	10 - 145
13C12-2,2',3,3',5,5',6,6'-OcCB	202L	100	50 - 145	50	45 - 135	10 - 145	10 - 145
13C12-2,3,3',4,4',5,5',6-OcCB	205L	100	50 - 145	50	45 - 135	10 - 145	10 - 145
13C12-2,2',3,3',4,4',5,5',6-NoCB	206L	100	50 - 145	50	45 - 135	10 - 145	10 - 145
13C12-2,2',3,3',4,5,5',6,6'-NoCB	208L	100	50 - 145	50	45 - 135	10 - 145	10 - 145
13C12-2,2',3,3',4,4',5,5',6,6'-DeCB	209L	100	50 - 145	50	45 - 135	10 - 145	10 - 145
Cleanup standards							
13C12-2,4,4'-TrCB	28L	100	65 - 135	70	20 - 135	5 - 145	5 - 145
13C12-2,3,3',5,5'-PeCB	111L	100	75 - 125	50	45 - 135	10 - 145	10 - 145
13C12-2,2',3,3',5,5',6-HpCB	178L	100	75 - 125	50	45 - 135	10 - 145	10 - 145

1. QC acceptance criteria for IPR, OPR, and samples based on a 20-µL extract final volume
2. Suffix “L” indicates labeled compound.
3. CBs 156/157 and 156L/157L are tested as the sum of the two congeners

Reporting Limits:

Unless indicated in the otherwise, the PCB results are reported down to 2.5:1 signal to noise for each isomer grouping for each extract injection. This is consistent to SW846 8290 defined protocols (i.e. EDL or Estimated Detection Limit) and is commonly applied throughout the industry to any or all the HRMS performance based methods applicable to this method summary.

Method Blank:

The Method Blank must be below the EMLs published in the required method, 1668A or 1668C.

MS/MSD:

The % relative difference between the MS and MSD spike recoveries should be less than or equal to 20%.

Instrument/Run Performance Criteria:

1. Elution windows must be defined by a 'Window Performance Mix' at the beginning of each 12-hour run sequence
2. GC performance criteria of 40% maximum valley between PCB-34/PCB-23, and PCB-187/PCB-182 (Octyl Column).
3. At the beginning of and just following the end of each 12 hour run sequence, the instrument must be checked to demonstrate a resolution of 10,000 within each quantification window (8,000 minimum across the window).
4. The relative retention times (RRT) of the compounds in the daily 209 congener mix must fall into the ranges presented in Table 4.
5. The RT in the daily CS3 verification standards must be within 15 seconds of the CS3 in the initial calibration run.
6. The maximum time between scans within a descriptor is 1 second.
7. Lock mass deviations to the average response must be less than or equal 20%.

Laboratory Duplicates:

The % relative difference between duplicates should be less than or equal to 25% but only where the response is greater than the low calibration standard.

Analyte Identification Criteria:

1. Ion ratio must be within 15% of theoretical or within 10% of the most recent CS3.
2. The retention time (RT) of the peak maxima for each pair of quantification ions must be no more than 2 seconds (i.e. 2 scans) difference.
3. The retention time (RT) of the peak maxima of all native analytes for which a labeled analogue is used must be within -1 to +3 seconds of the RT of corresponding $^{13}C_{12}$-labelled isomer of that injection run.
4. For those native analytes without a corresponding labelled isomer, the relative retention time (RRT) must be within 0.005 of the relative retention time observed in the daily 209 congener run.

DEVIATIONS AND CLARIFICATIONS FROM THE PRIMARY REFERENCES

The reference methods applicable to this document are:
US EPA Office of Water, Method 1668A
US EPA Office of Water, Method 1668C

These methods are referred-to herein as Method 1668

The following changes and clarifications apply:

1) As stated in method 1668, alternate columns and column systems are allowable changes to the method. In the context of the method, it is clear that Table 2 of this method (including retention times, relative retention times, and quantitation references) is specific to the Octyl GC column if used exactly as suggested in the method.

As a performance based method, changes in the internal standard references could be considered an improvement even when using the SPB-Octyl column. However when using an alternate column system (which may or may not include use of the Octyl column), optimization of the quantitation references can be an important part of optimizing the method. Consider that the MS acquisition method must be divided into mass descriptors or 'functions', each one defining the masses that are monitored during that time range. When monitoring for all 209 PCB congeners, there are large chromatographic regions where elution of target compounds is nearly continuous with little separation between peaks. In addition, there is a slight acquisition "gap" that occurs at each function change (for Water's instruments 1-2 seconds, for Thermo instruments 6-8 seconds), and also the likelihood of slight retention time shifts from one run to another. Consequently, choosing the exact location of each function boundary can be challenging. For a 1668 method, there are typically between 5 and 8 functions dependent upon the column, the GC conditions, the instrument and the choice of the function boundaries by the laboratory. Each function can have 1 to as many as 4 chlorination levels. When optimizing the quantification model in the case where RT and elution patterns have changed – even slightly - the best choice of internal standard references can and should change dependent upon target retention times and placement of function boundaries. For example, the best quantification is achieved using an internal standard reference that elutes at close to the same retention time. Another consideration is that it is best practice where possible (i.e. generally allows for more accurate target determinations) to have the internal standard reference within the same function rather than quantify a target relative to an internal standard from an outside function.

The quantification references used in this analysis are detailed in Table 3.

2) The absolute retention time criterion for decachlorobiphenyl of 55 minutes is not generally followed and is an unnecessary restriction since method 1668 was developed without the use of electronic pressure control on the GC injection system, and there are GC performance criteria that can be met without this restriction. As a result, the RRT criteria of 1668 may not be applicable.

3) Although not clearly stated in method 1668, we maintain that each and every individual clean-up procedure is, by definition, performance-based and optional. There is not an expectation within the industry to follow exactly the descriptions of clean-ups in reference methods. Adaptations which meet or exceed the required performance criteria are therefore acceptable within the scope of each reference method. The reference method descriptions are intended as guidelines or templates available to help the laboratory to define effective in-house clean-up methods. The objective within the laboratory is to provide quality clean extracts to the instrument for analysis. Each individual clean-up is part of the laboratory's available tools in order to achieve this objective.

4) There are differences within the individual reference methods as to the precise spiking protocols for adding extraction standards and native spikes (for LCS, MS and MSD). To ensure consistency within the laboratory between HRMS methods, the PCB preparative method requires solid samples (including stack and ambient sorbants/filters) to be spiked in the soxhlet extractor from a nonane solution and waters are spiked before filtering from an acetone solution. .

5) Sub-sampling of solids and pre-extraction processing is done in a manner that minimizes potential for cross-contamination. These processes are designed around SW846 protocols rather than 1668 protocols. Solids are sub-sampled directly from the bottle as submitted to the laboratory wherever practical. If the sample is submitted such that homogenization in the bottle is impractical (eg. the bottle is too full or lumps cannot be broken down), then transferring the sample to a tray or another bottle maybe in order.

6) The concentration of labelled and native spiking solutions are not consistent with those listed in all of the reference methods. These concentrations are prepared at levels convenient and expedient for accurate laboratory processing.

7) Extraction and injection standard concentrations differ from 1668, in order to aid precise measurement and standardise volumes with other reference methods such as PCDD/F by 1613B.

8) Method 1668C recognizes the option to use the 209 congener mix as the daily calibration verification solution rather than the CS3. This document acknowledges and allows either calibration option for both 1668A and 1668C analytical approaches.

9) For method 1668C analysis, the OPR labelled recovery limits are the same as for the sample recovery limits in method 1668C. This represents a broader acceptance range for the OPR than is currently listed in method 1668C. However, the control of the native (i.e. non-labelled) recovery limits is the key item to demonstrate/monitor in the OPR. Furthermore, in the OPR performance, it is important to demonstrate these native controls are maintained within the same range of labelled recoveries as is observed in the sample data.

Table 3: Quantitation References for Native and Labeled CBs

Cl No.[1]	Congener No.[2,3]	RT Ref[4]	Quantitation Reference[5]
Native Compounds			
1	1	1L	1L
1	2	3L	1L/3L
1	3	3L	3L
2	4	4L	4L
2	10	4L	4L/15L
2	9	4L	4L/15L
2	7	4L	4L/15L
2	6	4L	4L/15L
2	5	4L	4L/15L
2	8	4L	4L/15L
2	14	15L	4L/15L
2	11	15L	4L/15L
2	13/12	15L	4L/15L
2	15	15L	15L
3	19	19L	19L
3	30/18	19L	19L/37L
3	17	19L	19L/37L
3	27	19L	19L/37L
3	24	19L	19L/37L
3	16	19L	19L/37L
3	32	19L	19L/37L
3	34	19L	19L/37L
3	23	19L	19L/37L
3	26/29	19L	19L/37L
3	25	37L	19L/37L
3	31	37L	19L/37L
3	28/20	37L	19L/37L
3	21/33	37L	19L/37L
3	22	37L	19L/37L
3	36	37L	19L/37L
3	39	37L	19L/37L
3	38	37L	19L/37L
3	35	37L	19L/37L
3	37	37L	37L
4	54	54L	54L
4	50/53	54L	54L/81L/77L
4	45/51	54L	54L/81L/77L
4	46	54L	54L/81L/77L
4	52	54L	54L/81L/77L
4	73	54L	54L/81L/77L
4	43	54L	54L/81L/77L
4	69/49	54L	54L/81L/77L
4	48	54L	54L/81L/77L
4	44/47/65	54L	54L/81L/77L
4	59/62/75	54L	54L/81L/77L
4	42	54L	54L/81L/77L
4	41/40/71	54L	54L/81L/77L
4	64	54L	54L/81L/77L
4	72	81L	54L/81L/77L
4	68	81L	54L/81L/77L

Cl No. [1]	Congener No. [2,3]	RT Ref [4]	Quantitation Reference [5]
4	57	81L	54L/81L/77L
4	58	81L	54L/81L/77L
4	67	81L	54L/81L/77L
4	63	81L	54L/81L/77L
4	61/70/74/76	81L	54L/81L/77L
4	66	81L	54L/81L/77L
4	55	81L	54L/81L/77L
4	56	81L	54L/81L/77L
4	60	81L	54L/81L/77L
4	80	81L	54L/81L/77L
4	79	81L	54L/81L/77L
4	78	81L	54L/81L/77L
4	81	81L	81L
4	77	77L	77L
5	104	104L	104L
5	96	104L	104L/123L/114L/118L
5	103	104L	104L/123L/114L/118L
5	94	104L	104L/123L/114L/118L
5	95	104L	104L/123L/114L/118L
5	95/100/93/102/98	104L	104L/123L/114L/118L
5	88/91	104L	104L/123L/114L/118L
5	84	104L	104L/123L/114L/118L
5	89	104L	104L/123L/114L/118L
5	121	104L	104L/123L/114L/118L
5	92	123L	104L/123L/114L/118L
5	113/90/101	104L	104L/123L/114L/118L
5	83/99	104L	104L/123L/114L/118L
5	112	104L	104L/123L/114L/118L
5	108/119/86/97/125/87	104L	104L/123L/114L/118L
5	117/116/85/110/115	104L	104L/123L/114L/118L
5	82	104L	104L/123L/114L/118L
5	111	104L	104L/123L/114L/118L
5	120	104L	104L/123L/114L/118L
5	107/124	104L	104L/123L/114L/118L
5	109	104L	104L/123L/114L/118L
5	123	123L	123L
5	106	123L	104L/123L/114L/118L
5	118	118L	118L
5	122	118L	104L/123L/114L/118L
5	114	114L	114L
5	105	105L	105L
5	127	105L	104L/123L/114L/118L
5	126	126L	126L
6	155	155L	155L
6	152	155L	155L/156L/157L/167L
6	150	155L	155L/156L/157L/167L
6	136	155L	155L/156L/157L/167L
6	145	155L	155L/156L/157L/167L
6	148	155L	155L/156L/157L/167L
6	151/135	135L	155L/156L/157L/167L
6	154	155L	155L/156L/157L/167L
6	144	155L	155L/156L/157L/167L
6	147/149	155L	155L/156L/157L/167L
6	134/143	155L	155L/156L/157L/167L

Cl No. [1]	Congener No. [2,3]	RT Ref [4]	Quantitation Reference [5]
6	139/140	155L	155L/156L/157L/167L
6	131	155L	155L/156L/157L/167L
6	142	155L	155L/156L/157L/167L
6	132	155L	155L/156L/157L/167L
6	133	155L	155L/156L/157L/167L
6	165	167L	155L/156L/157L/167L
6	146	167L	155L/156L/157L/167L
6	161	167L	155L/156L/157L/167L
6	153/168	167L	155L/156L/157L/167L
6	141	167L	155L/156L/157L/167L
6	130	167L	155L/156L/157L/167L
6	137/164	167L	155L/156L/157L/167L
6	138/163/129	167L	155L/156L/157L/167L
6	160	167L	155L/156L/157L/167L
6	158	167L	155L/156L/157L/167L
6	128/166	167L	155L/156L/157L/167L
6	159	167L	155L/156L/157L/167L
6	162	167L	155L/156L/157L/167L
6	167	167L	155L/156L/157L/167L
6	156/157	156L/157L	156L/157L
6	169	169L	169L
7	188	188L	188L
7	179	188L	188L/189L
7	184	188L	188L/189L
7	176	188L	188L/189L
7	186	188L	188L/189L
7	178	188L	188L/189L
7	175	188L	188L/189L
7	187	188L	188L/189L
7	182	188L	188L/189L
7	183	188L	188L/189L
7	185	188L	188L/189L
7	174	188L	188L/189L
7	177	188L	188L/189L
7	181	188L	188L/189L
7	171/173	188L	188L/189L
7	172	189L	188L/189L
7	192	189L	188L/189L
7	180/193	189L	188L/189L
7	191	189L	188L/189L
7	170	189L	188L/189L
7	190	189L	188L/189L
7	189	189L	189L
8	202	202L	202L
8	201	202L	202L/205L
8	204	202L	202L/205L
8	197	202L	202L/205L
8	200	202L	202L/205L
8	198/199	202L	202L/205L
8	196	205L	202L/205L
8	203	205L	202L/205L
8	195	205L	202L/205L
8	194	205L	202L/205L
8	205	205L	205L
9	208	208L	208L
9	207	208L	208L/206L
9	206	206L	206L
10	209	209L	209L

Cl No. [1]	Congener No. [2,3]	RT Ref [4]	Quantitation Reference [5]
Labelled Extraction Standards			
1	1L	9L	9L
1	3L	9L	9L
2	4L	9L	9L
2	15L	9L	9L
3	19L	9L	9L
3	37L	52L	52L
4	54L	52L	52L
4	81L	101L	101L
4	77L	101L	101L
5	104L	101L	101L
5	123L	101L	101L
5	118L	101L	101L
5	114L	101L	101L
5	105L	101L	101L
5	126L	101L	101L
6	155L	101L	101L
6	167L	138L	138L
6	156L/157L	157L	138L
6	169L	138L	138L
7	188L	138L	138L
7	189L	138L	138L
8	202L	138L	138L
8	205L	194L	194L
9	208L	194L	194L
9	206L	194L	194L
10	209L	194L	194L
Labelled clean-up standards			
3	28L	52L	52L
5	111L	101L	101L
7	178L	138L	138L
Labelled injection internal standards			
2	9L	138L	138L
4	52L	138L	138L
5	101L	138L	138L
6	138L	138L	
8	194L	138L	138L

1. Number of chlorines on congener.

2. Suffix "L" indicates labelled compound.

3. Multiple congeners in a box indicates a group of congeners that co-elute or may not be adequately resolved on a 30-m SPBOctyl column. Congeners included in the group are listed as the last entry in the box.

4. Retention time reference that is used to locate target congener.

5. Labelled congeners that form the quantitation reference. Areas from the exact m/z's of the congeners listed in the quantitation

Table 5: HRMS Instrumental Descriptor Parameters

Function and chlorine level	m/z	m/z type	m/z formula	Substance
	180.9888	QC	C4F7	PFK
Fn-1; Cl-1	188.0393	M	12C12 H9 35Cl	Cl-1 CB
	190.0363	M+2	12C12 H9 37Cl	Cl-1 CB
	200.0795	M	13C12 H9 35Cl	13C12 Cl-1 CB
	202.0766	M+2	13C12 H9 37Cl	13C12 Cl-1 CB
	204.9983	QC	C6F7	PFK
	218.9856	lock	C4 F9	PFK
	230.9850	QC	C5F9	PFK
	204.9883	QC	C6F7	PFK
	218.9856	QC	C4F9	PFK
Fn-2; Cl-2,3	222.0003	M	12C12 H8 35Cl2	Cl-2 PCB
	223.9974	M+2	12C12 H8 35Cl 37Cl	Cl-2 PCB
	225.9944	M+4	12C12 H8 37Cl2	Cl-2 PCB
	234.0406	M	13C12 H8 35Cl2	13C12 Cl-2 PCB
	236.0376	M+2	13C12 H8 35Cl 37 Cl	13C12 Cl-2 PCB
	242.9856	lock	C6 F9	PFK
	255.9613	M	12C12 H7 35Cl3	Cl-3 PCB
	257.9584	M+2	12C12 H7 35Cl2 37Cl	Cl-3 PCB
	268.0016	M	13C12 H7 35Cl3	13C12 Cl-3 PCB
	269.9986	M+2	13C12 H7 35Cl2 37Cl 13C12	13C12 Cl-3 PCB
Fn-3	255.9613	M	12C12 H7 35Cl3	Cl-3 PCB
Cl-3,4,5	257.9584	M+2	12C12 H7 35Cl2 37Cl	Cl-3 PCB
	268.0016	M	13C12 H7 35Cl3	13C12 Cl-3 PCB
	269.9986	M+2	13C12 H7 35Cl2 37Cl 13C12	13C12 Cl-3 PCB
	280.9825	lock	C6 F11	PFK
	289.9224	M	12C12 H6 35Cl4	Cl-4 PCB
	291.9194	M+2	12C12 H6 35Cl3 37Cl	Cl-4 PCB
	301.9626	M	13C12 H6 35Cl4	13C12 Cl-4 PCB
	303.9597	M+2	13C12 H6 35Cl3 37Cl	13C12 Cl-4 PCB
	323.8834	M	12C12 H5 35Cl5	Cl-5 PCB
	325.8804	M+2 1	2C12 H5 35Cl4 37Cl	Cl-5 PCB
	327.8775	M+4	12C12 H5 35Cl3 37Cl2	Cl-5 PCB
	337.9207	M+2	13C12 H5 35Cl4 37Cl	13C12 Cl-5 PCB
	339.9178	M+4	13C12 H5 35Cl3 37Cl2	13C12 Cl-5 PCB
	280.9824		C6 F11	PFK
Fn-4	289.9224	M	12C12 H6 35Cl4	Cl-4 PCB
Cl-4,5,6	291.9194	M+2	12C12 H6 35Cl3 37Cl	Cl-4 PCB
	293.9165	M+4	12C12 H6 35Cl2 37Cl2	Cl-4 PCB
	301.9626	M+2	13C12 H6 35Cl3 37Cl	13C12 Cl-4 PCB
	303.9597	M+4	13C12 H6 35Cl2	13C12 Cl-4 PCB
	323.8834	M	12C12 H5 35Cl5	Cl-5 PCB
	325.8804	M+2	12C12 H5 35Cl4 37Cl	Cl-5 PCB
	327.8775	M+4	12C12 H5 35Cl3 37Cl2	Cl-5 PCB
	330.9792	lock	C7 F15	PFK
	337.9207	M+2	13C12 H5 35Cl4 37Cl 13C12	Cl-5 PCB
	339.9178	M+4	13C12 H5 35Cl3 37Cl2	13C12 Cl-5 PCB
	359.8415	M+2	13C12 H4 35Cl5 37Cl	Cl-6 PCB
	361.8385	M+4	13C12 H4 35Cl4 37Cl2	Cl-6 PCB
	363.8356	M+6	13C12 H4 35Cl3 37Cl2	Cl-6 PCB
	371.8817	M+2	13C12 H4 35Cl5 37Cl	13C12 Cl-6 PCB
	373.8788	M+4	13C12 H4 35Cl4 37Cl2	13C12 Cl-6 PCB

Function and chlorine level	m/z	m/z type	m/z formula	Substance
Fn-5	323.8834	M	12C12 H5 35Cl5	Cl-5 PCB
Cl-5,6,7	325.8804	M+2	12C12 H5 35Cl4 37Cl	Cl-5 PCB
	327.8775	M+4	12C12 H5 35Cl3 37Cl2	Cl-5 PCB
	337.9207	M+2	13C12 H5 35Cl4 37Cl	13C12 Cl-5 PCB
	339.9178	M+4	13C12 H5 35Cl3 37Cl2	13C12 Cl-5 PCB
	354.9792	lock	C9 F13	PFK
	359.8415	M+2	12C12 H4 35Cl5 37Cl	Cl-6 PCB
	361.8385	M+4	12C12 H4 35Cl4 37Cl2	Cl-6 PCB
	363.8356	M+6	12C12 H4 35Cl3 37Cl3	Cl-6 PCB
	371.8817	M+2	13C12 H4 35Cl5 37Cl	13C12 Cl-6 PCB
	373.8788	M+4	13C12 H4 35Cl4 37Cl2	13C12 Cl-6 PCB
	393.8025	M+2	12C12 H3 35Cl6 37Cl	Cl-7 PCB
	395.7995	M+4	12C12 H3 35Cl5 37Cl2	Cl-7 PCB
	397.7966	M+6	12C12 H3 35Cl4 37Cl3	Cl-7 PCB
	405.8428	M+2	13C12 H3 35Cl6 37Cl	13C12 Cl-7 PCB
	407.8398	M+4	13C12 H3 35Cl5 37Cl2	13C12 Cl-7 PCB
	427.7635	M+2	12C12 H2 35Cl7 37Cl	Cl-8 PCB
	429.7606	M+4	12C12 H2 35Cl6 37Cl2	Cl-8 PCB
	431.7576	M+6	12C12 H2 35Cl5 37Cl3	Cl-8 PCB
	439.8038	M+2	13C12 H2 35Cl7 37Cl	13C12 Cl-8 PCB
	441.8008	M+4	13C12 H2 35Cl6 37Cl2	13C12 Cl-8 PCB
Fn-6	393.8025	M+2	12C12 H3 35Cl6 37Cl	Cl-7 PCB
Cl-7,8,9,10	395.7995	M+4	12C12 H3 35Cl5 37Cl2	Cl-7 PCB
	397.7966	M+6	12C12 H3 35Cl4 37Cl3	Cl-7 PCB
	405.8428	M+2	13C12 H3 35Cl6 37Cl 13C12	Cl-7 PCB
	407.8398	M+4	13C12 H3 35Cl5 37Cl2	13C12 Cl-7 PCB
	427.7635	M+2	12C12 H2 35Cl7 37Cl	Cl-8 PCB
	429.7606	M+4	12C12 H2 35Cl6 37Cl2	Cl-8 PCB
	431.7576	M+6	12C12 H2 35Cl5 37Cl3	Cl-8 PCB
	439.8038	M+2	13C12 H2 35Cl7 37Cl	13C12 Cl-8 PCB
	441.8008	M+4	13C12 H2 35Cl6 37Cl2	13C12 Cl-8 PCB
	442.9728	QC	C10 F13	PFK
	454.9728	lock	C11 F13	PFK
	461.7246	M+2	12C12 H1 35Cl8 37Cl	Cl-9 PCB
	463.7216	M+4	12C12 H1 35Cl7 37Cl2	Cl-9 PCB
	465.7187	M+6	12C12 H1 35Cl6 37Cl3	Cl-9 PCB
	473.7648	M+2	13C12 H1 35Cl8 37Cl	13C12 Cl-9 PCB
	475.7619	M+4	13C12 H1 35Cl7 37Cl2	13C12 Cl-9 PCB
	495.6856	M+2	13C12 H4 35Cl9 37Cl	Cl-10 PCB
Fn-7	497.6826	M+4	12C12 35Cl8 37Cl2	Cl-10 PCB
	499.6797	M+6	12C12 35Cl7 37Cl3	Cl-10 PCB
	509.7229	M+4	13C12 H4 35Cl8 37Cl2	13C12 Cl-10 PCB
	511.7199	M+6	13C12 H4 35Cl8 37Cl4	13C12 Cl-10 PCB
	516.9697	lock	C13F19	PFK

Data Calculations:

a) Analyte Concentrations:

The relative response factor of each target relative to the standard against which it is to be calculated is determined using the area responses of both quantification ions via equation 9.1.

In cases where a native target is calculated against an exact labelled analogue, the quantification will be considered to be by isotope dilution. In other cases, the quantification will be considered to be by internal standard.

$$RRF = \frac{(A1_t + A2_t)\ C_s}{(A1_s + A2_s)\ C_t} \qquad \text{Equ. 9.1}$$

Where,

$A1_t + A2_t$ = The areas of the two quantification ions for the target analyte

$A1_s + A2_s$ = The areas of the two quantification ions for the labelled compound against which the target analyte will be calculated.

C_t = The concentration in the calibration standard of the target analyte.

C_s = The concentration in the calibration standard of the labelled compound against which the target will be calculated.

For all analytes to be quantified and from the initial calibration series of standard injections, a table of RRFs is prepared. The relative standard deviation (%RSD, or the coefficient of variance) is checked to confirm that the appropriate method criteria has been met as listed in Table 3. The average of the five or six levels of standard for each analyte, RRF_{av} is applied for quantification of samples according to Equations 9.2 and 9.3 below.

$$\text{Amount in sample (pg)} = \frac{(A1_n + A2_n)\ Q_l}{(A1_l + A2_l)\ (RRF_{av})} \qquad \text{Equ. 9.2}$$

$$\text{Concentration in sample (pg/g or pg/l)} = \frac{(A1_n + A2_n)\ Q_l}{(A1_l + A2_l)\ (RRF_{av})\ (W_s)} \qquad \text{Equ. 9.3}$$

Where,

Q_l = The amount (pg) of labelled compound added to the sample

W_s = The weight (g) or volume (l) of sample

b) Extraction, Clean-up, and Sampling Standard Recovery Calculation:

The extraction, clean-up, and sampling standard recoveries are determined by Equation 9.4 below.

% Recovery = (Amount in sample)/(Amount added to sample) X 100 Equ. 9.4

c) Estimated Detection Limit

$$EDL = \frac{2.5\ x\ H_x\ x\ Q_{es}}{H_{es}\ x\ W\ x\ RFF_{av}} \qquad \text{Equ. 9.5}$$

Where,

EDL = estimated detection limit for homologous PCB

H_x = sum of the height of the noise level for each quantification ions for the unlabelled PCB.

H_{es} = Sum of the heights of responses of both quantification ions for the labelled extraction standard.

W = weight of volume of sample

RRF_{av} = average relative response factor

Q_{es} = Amount of extraction standard added

Chromatogram Annotation Codes

All manually integrated peaks are expanded and reprinted with the following annotations:

* Analyst Initials	AA
* Date	YYMMDD
* integration code	CC

The Syntax is:	Example:
AAYYMMDDCC	SK111220MB

Code	Mnemonic	Description
MB	Manual Baseline	The peak was manually integrated because the initial baseline was determined incorrectly by the software
MS	Manual Split	The peak was manually integrated because the peak was incorrectly or not split by the software
MJ/MC	Manual Join/Manual Combine	The peak was manually integrated because the peak was split by the software and the peak should be integrated as a single peak
MA	Manual Add	The peak was manually integrated because the signal:noise ratio was judged to be >2.5
MD	Manual Delete	The peak was excluded because the signal:noise ratio was judged to be <2.5
MX	Manual Exclude	The peak was excluded due to an interference
NH	Noise Height	The noise height for Estimated Detection Limit calculation was chosen by the analyst (automated noise height not appropriate)
MT	Manual Time	The peak retention time was manually chosen

The following explanatory annotation codes may appear on the chromatograms of peaks that have been reviewed:

Code	Mnemonic	Description
+	Detected Peak	A peak was detected at this mass and retention time that was above 2.5:1 signal to noise
<	Below Detection Limit	The signal at this mass and retention time was below 2.5:1 signal to noise
EMPC	Estimated Maximum Possible Concentration	The signal at this mass and retention time is an interference such that the target compound could not be confirmed
X-RT	Not Detected due to Retention Time non-conformance	The signal at this retention time could not be used to positively identify the target compound because of retention time non-conformance (apex of quantification and confirmation ions do not maximize within the same two seconds, or the retention time of the peak does not fall within the expected range with respect to its labeled analogue)
X-LOC	Not Detected due to interference from a higher level of chlorination	The signal at this retention time is attributable to a fragment from a co-eluting compound at a higher level of chlorination, and cannot be used to positively identify the target. The result is expressed as an Estimated Maximum Possible Concentration (EMPC)
X-DPE	Not Detected due to diphenyl ether interference	The signal at this retention time is attributable to interference from a chlorinated diphenyl ether, and cannot be used to positively identify the target. The result is expressed as an Estimated Maximum Possible Concentration (EMPC)
X-IF	Not Detected due to interference	The signal at this retention time is attributable to a co-eluting interference, and cannot be used to positively identify the target. The result is expressed as an Estimated Maximum Possible Concentration (EMPC)

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SVOC DATA PACKAGE

SECTION 4: CALIBRATION DATA

Including:

for Multi-Point Calibration(s)

- Multi-Point Calibration Tables
- Individual Quantitation Reports

for Continuing Calibration(s)

- Individual Quantitation Reports

ALS Life Sciences

Calibration Summary Report

Calibration Level	Filename	Run Date
CS-1	5-201202A03	02-Dec-2020 11:14
CS-2	5-201202A02	02-Dec-2020 10:34
CS-3	5-201202A01	02-Dec-2020 09:37
CS-4	5-201202A07	02-Dec-2020 12:39
CS-5	5-201202A08	02-Dec-2020 13:21

Approved: *N Ashtari*
--e-signature--
11-Nov-2021

Relative Response Factors

Target Analytes	CS-1	CS-2	CS-3	CS-4	CS-5	Mean	% RSD
PCB-001	1.081	1.118	1.192	1.206	1.122	1.144	5%
PCB-003	1.143	1.149	1.201	1.234	1.251	1.196	4%
PCB-004	0.842	0.905	0.893	0.897	0.916	0.891	3%
PCB-015	0.977	1.048	1.108	1.166	1.187	1.097	8%
PCB-019	1.050	1.149	1.197	1.208	1.211	1.163	6%
PCB-037	1.042	1.037	1.139	1.158	1.193	1.114	6%
PCB-054	1.002	1.031	1.085	1.106	1.115	1.068	5%
PCB-081	1.079	1.132	1.262	1.280	1.306	1.212	8%
PCB-077	1.012	1.066	1.229	1.239	1.261	1.161	10%
PCB-104	1.053	1.109	1.176	1.197	1.230	1.153	6%
PCB-123	0.979	1.055	1.145	1.148	1.182	1.102	8%
PCB-118	1.075	1.084	1.208	1.237	1.251	1.171	7%
PCB-114	1.176	1.173	1.254	1.281	1.265	1.230	4%
PCB-105	1.089	1.151	1.229	1.255	1.302	1.205	7%
PCB-126	1.058	1.115	1.258	1.283	1.345	1.212	10%
PCB-155	1.006	1.006	1.057	1.089	1.130	1.058	5%
PCB-167	0.985	1.057	1.147	1.163	1.166	1.104	7%
PCB-156/157	1.038	1.084	1.179	1.199	1.209	1.142	7%
PCB-169	0.915	1.054	1.145	1.167	1.176	1.091	10%
PCB-188	0.830	0.874	0.984	1.010	1.019	0.943	9%
PCB-189	0.925	0.957	1.032	1.056	1.075	1.009	6%
PCB-202	1.020	1.050	1.078	1.115	1.125	1.078	4%
PCB-205	0.875	0.843	0.939	0.958	0.962	0.915	6%
PCB-208	1.170	1.154	1.251	1.269	1.262	1.221	4%
PCB-206	1.173	1.174	1.212	1.240	1.253	1.210	3%
PCB-209	1.169	0.976	0.968	0.970	0.978	1.012	9%
Extraction Standards							
13C12-PCB-001	0.981	1.007	0.979	1.074	1.335	1.075	14%
13C12-PCB-003	0.893	0.889	0.882	0.937	1.178	0.956	13%
13C12-PCB-004	0.631	0.632	0.635	0.659	0.806	0.673	11%
13C12-PCB-015	0.736	0.782	0.771	0.833	1.076	0.840	16%
13C12-PCB-019	0.456	0.476	0.480	0.494	0.610	0.503	12%
13C12-PCB-037	1.311	1.289	1.277	1.467	1.908	1.450	18%
13C12-PCB-054	1.533	1.598	1.595	1.691	2.114	1.706	14%
13C12-PCB-081	1.437	1.430	1.433	1.530	1.916	1.549	14%
13C12-PCB-077	1.472	1.453	1.455	1.558	1.941	1.576	13%
13C12-PCB-104	1.797	1.815	1.904	1.928	2.271	1.943	10%
13C12-PCB-123	1.263	1.247	1.259	1.323	1.691	1.357	14%
13C12-PCB-118	1.322	1.314	1.329	1.382	1.773	1.424	14%
13C12-PCB-114	1.188	1.190	1.199	1.247	1.667	1.298	16%
13C12-PCB-105	1.193	1.201	1.219	1.254	1.557	1.285	12%
13C12-PCB-126	1.067	1.079	1.058	1.129	1.494	1.165	16%
13C12-PCB-155	1.684	1.727	1.753	1.813	2.252	1.846	13%
13C12-PCB-167	1.195	1.173	1.177	1.243	1.550	1.268	13%
13C12-PCB-156/157	1.122	1.105	1.118	1.197	1.570	1.222	16%
13C12-PCB-169	1.114	1.070	1.053	1.099	1.405	1.148	13%
13C12-PCB-188	1.386	1.361	1.397	1.461	1.833	1.488	13%
13C12-PCB-189	1.127	1.121	1.066	1.112	1.382	1.162	11%
13C12-PCB-202	1.064	1.051	1.098	1.118	1.418	1.150	13%
13C12-PCB-205	1.417	1.429	1.421	1.482	1.695	1.489	8%
13C12-PCB-208	1.127	1.118	1.136	1.162	1.393	1.187	10%
13C12-PCB-206	0.797	0.799	0.793	0.825	0.944	0.832	8%
13C12-PCB-209	1.292	1.272	1.267	1.319	1.486	1.327	7%
Cleanup Standards							
13C12-PCB-028	1.735	1.765	1.711	1.778	1.829	1.764	3%
13C12-PCB-111	1.122	1.138	1.140	1.124	1.164	1.138	1%
13C12-PCB-178	0.833	0.841	0.843	0.830	0.834	0.836	1%

ALS Life Sciences

Calibration Report

ALS Sample ID **H5-20-CS1-1035**
Analysis Method EPA 1668C
Analysis Type Calibration

Filename	Inst #	Column	Run Date	Approved:	*N Ashtari*
5-201202A03	HRMS-5	SPBOCTYL25600-01	02-Dec-2020 11:14		--e-signature--
					11-Nov-2021

Target Analytes	Ret. Time	Ion Ratio	Concentration ng/mL	Response	RRF
PCB-001	8.95	3.27	1.00	2.29E+04	1.081
PCB-003	10.48	3.32	1.00	2.21E+04	1.143
PCB-004	10.63	1.71	1.00	1.15E+04	0.842
PCB-015	14.32	1.50	1.00	1.55E+04	0.977
PCB-019	12.62	1.06	1.00	1.04E+04	1.050
PCB-037	18.24	1.15	1.00	1.14E+04	1.042
PCB-054	14.46	0.81	1.00	1.28E+04	1.002
PCB-081	21.81	0.83	1.00	8.50E+03	1.079
PCB-077	22.11	0.71	1.00	8.17E+03	1.012
PCB-104	17.5	1.49	1.00	1.04E+04	1.053
PCB-123	23.08	1.78	1.00	6.78E+03	0.979
PCB-118	23.25	1.46	1.00	7.79E+03	1.075
PCB-114	23.55	1.49	1.00	7.67E+03	1.176
PCB-105	23.91	1.53	1.00	7.13E+03	1.089
PCB-126	25.51	1.64	1.00	6.19E+03	1.058
PCB-155	20.48	1.24	1.00	9.29E+03	1.006
PCB-167	26.38	1.20	1.00	6.07E+03	0.985
PCB-156/157	27.02	1.17	2.00	1.20E+04	1.038
PCB-169	28.69	1.19	1.00	5.26E+03	0.915
PCB-188	23.48	1.01	1.00	5.94E+03	0.830
PCB-189	29.95	1.13	1.00	5.38E+03	0.925
PCB-202	26.26	0.86	1.00	5.60E+03	1.020
PCB-205	31.33	0.86	1.00	4.37E+03	0.875
PCB-208	29.67	0.87	1.00	4.64E+03	1.170
PCB-206	32.37	0.70	1.00	3.29E+03	1.173
PCB-209	33.5	1.21	1.00	5.32E+03	1.169
Extraction Standards					
13C12-PCB-001	8.95	3.01	100.00	2.12E+06	0.981
13C12-PCB-003	10.47	3.05	100.00	1.93E+06	0.893
13C12-PCB-004	10.62	1.59	100.00	1.37E+06	0.631
13C12-PCB-015	14.3	1.63	100.00	1.59E+06	0.736
13C12-PCB-019	12.61	1.03	100.00	9.86E+05	0.456
13C12-PCB-037	18.24	1.06	100.00	1.10E+06	1.311
13C12-PCB-054	14.45	0.78	100.00	1.28E+06	1.533
13C12-PCB-081	21.8	0.80	100.00	7.88E+05	1.437
13C12-PCB-077	22.1	0.81	100.00	8.07E+05	1.472
13C12-PCB-104	17.49	1.57	100.00	9.86E+05	1.797
13C12-PCB-123	23.07	1.58	100.00	6.93E+05	1.263
13C12-PCB-118	23.24	1.65	100.00	7.25E+05	1.322
13C12-PCB-114	23.54	1.67	100.00	6.52E+05	1.188
13C12-PCB-105	23.9	1.66	100.00	6.54E+05	1.193
13C12-PCB-126	25.5	1.65	100.00	5.85E+05	1.067
13C12-PCB-155	20.48	1.24	100.00	9.24E+05	1.684
13C12-PCB-167	26.37	1.29	100.00	6.16E+05	1.195
13C12-PCB-156/157	27.01	1.31	200.00	1.16E+06	1.122
13C12-PCB-169	28.67	1.30	100.00	5.75E+05	1.114
13C12-PCB-188	23.47	1.04	100.00	7.15E+05	1.386
13C12-PCB-189	29.92	1.07	100.00	5.82E+05	1.127
13C12-PCB-202	26.23	0.89	100.00	5.49E+05	1.064
13C12-PCB-205	31.3	0.89	100.00	4.99E+05	1.417
13C12-PCB-208	29.65	0.79	100.00	3.97E+05	1.127
13C12-PCB-206	32.36	0.81	100.00	2.81E+05	0.797
13C12-PCB-209	33.48	1.21	100.00	4.55E+05	1.292
Cleanup Standards					
13C12-PCB-028	15.98	1.06	100.00	1.45E+06	1.735
13C12-PCB-111	22	1.62	100.00	6.15E+05	1.122
13C12-PCB-178	25.04	1.04	100.00	4.30E+05	0.833
Injection Standards					
13C12-PCB-9	11.88	1.56	100.00	2.16E+06	-
13C12-PCB-52	16.97	0.82	100.00	8.36E+05	-
13C12-PCB-101	20.61	1.64	100.00	5.49E+05	-
13C12-PCB-138	24.84	1.32	100.00	5.16E+05	-
13C12-PCB-194	31.02	0.89	100.00	3.52E+05	-

ALS Life Sciences

Calibration Report

ALS Sample ID **H5-20-CS2-1035**
Analysis Method EPA 1668C
Analysis Type Calibration

Filename	Inst #	Column	Run Date	Approved:	*N Ashtari*
5-201202A02	HRMS-5	SPBOCTYL25600-01	02-Dec-2020 10:34		--e-signature--
					11-Nov-2021

Target Analytes	Ret. Time	Ion Ratio	Concentration ng/mL	Response	RRF
PCB-001	8.97	3.23	5.00	1.14E+05	1.118
PCB-003	10.49	3.32	5.00	1.03E+05	1.149
PCB-004	10.65	1.26	5.00	5.78E+04	0.905
PCB-015	14.32	1.58	5.00	8.30E+04	1.048
PCB-019	12.64	1.07	5.00	5.53E+04	1.149
PCB-037	18.27	1.08	5.00	5.48E+04	1.037
PCB-054	14.49	0.80	5.00	6.76E+04	1.031
PCB-081	21.83	0.80	5.00	4.42E+04	1.132
PCB-077	22.13	0.79	5.00	4.23E+04	1.066
PCB-104	17.52	1.61	5.00	5.50E+04	1.109
PCB-123	23.1	1.64	5.00	3.59E+04	1.055
PCB-118	23.27	1.68	5.00	3.89E+04	1.084
PCB-114	23.58	1.58	5.00	3.81E+04	1.173
PCB-105	23.93	1.64	5.00	3.78E+04	1.151
PCB-126	25.52	1.63	5.00	3.29E+04	1.115
PCB-155	20.5	1.22	5.00	4.75E+04	1.006
PCB-167	26.4	1.19	5.00	3.27E+04	1.057
PCB-156/157	27.03	1.19	10.00	6.32E+04	1.084
PCB-169	28.7	1.18	5.00	2.98E+04	1.054
PCB-188	23.5	1.04	5.00	3.14E+04	0.874
PCB-189	29.96	1.00	5.00	2.83E+04	0.957
PCB-202	26.27	0.85	5.00	2.91E+04	1.050
PCB-205	31.34	0.93	5.00	2.16E+04	0.843
PCB-208	29.68	0.79	5.00	2.31E+04	1.154
PCB-206	32.4	0.82	5.00	1.68E+04	1.174
PCB-209	33.53	1.18	5.00	2.22E+04	0.976
Extraction Standards					
13C12-PCB-001	8.97	3.01	100.00	2.04E+06	1.007
13C12-PCB-003	10.49	3.07	100.00	1.80E+06	0.889
13C12-PCB-004	10.63	1.58	100.00	1.28E+06	0.632
13C12-PCB-015	14.32	1.61	100.00	1.58E+06	0.782
13C12-PCB-019	12.62	1.04	100.00	9.63E+05	0.476
13C12-PCB-037	18.26	1.06	100.00	1.06E+06	1.289
13C12-PCB-054	14.47	0.79	100.00	1.31E+06	1.598
13C12-PCB-081	21.82	0.80	100.00	7.81E+05	1.430
13C12-PCB-077	22.12	0.80	100.00	7.94E+05	1.453
13C12-PCB-104	17.51	1.58	100.00	9.92E+05	1.815
13C12-PCB-123	23.09	1.58	100.00	6.81E+05	1.247
13C12-PCB-118	23.26	1.59	100.00	7.18E+05	1.314
13C12-PCB-114	23.56	1.58	100.00	6.50E+05	1.190
13C12-PCB-105	23.91	1.61	100.00	6.56E+05	1.201
13C12-PCB-126	25.52	1.64	100.00	5.90E+05	1.079
13C12-PCB-155	20.49	1.24	100.00	9.44E+05	1.727
13C12-PCB-167	26.39	1.30	100.00	6.19E+05	1.173
13C12-PCB-156/157	27.02	1.29	200.00	1.17E+06	1.105
13C12-PCB-169	28.69	1.33	100.00	5.65E+05	1.070
13C12-PCB-188	23.49	1.03	100.00	7.19E+05	1.361
13C12-PCB-189	29.95	1.06	100.00	5.92E+05	1.121
13C12-PCB-202	26.26	0.91	100.00	5.55E+05	1.051
13C12-PCB-205	31.33	0.88	100.00	5.11E+05	1.429
13C12-PCB-208	29.67	0.80	100.00	4.00E+05	1.118
13C12-PCB-206	32.39	0.80	100.00	2.86E+05	0.799
13C12-PCB-209	33.5	1.21	100.00	4.55E+05	1.272
Cleanup Standards					
13C12-PCB-028	16	1.04	100.00	1.45E+06	1.765
13C12-PCB-111	22.02	1.65	100.00	6.22E+05	1.138
13C12-PCB-178	25.06	1.04	100.00	4.44E+05	0.841
Injection Standards					
13C12-PCB-9	11.9	1.55	100.00	2.02E+06	-
13C12-PCB-52	16.99	0.82	100.00	8.21E+05	-
13C12-PCB-101	20.64	1.63	100.00	5.46E+05	-
13C12-PCB-138	24.87	1.31	100.00	5.28E+05	-
13C12-PCB-194	31.05	0.88	100.00	3.58E+05	-

ALS Life Sciences

Calibration Report

ALS Sample ID **H5-20-CS3-1035**
Analysis Method EPA 1668C
Analysis Type Calibration

Filename	Inst #	Column	Run Date	Approved:	*N Ashtari*
5-201202A01	HRMS-5	SPBOCTYL25600-01	02-Dec-2020 09:37		--e-signature--
					11-Nov-2021

Target Analytes	Ret. Time	Ion Ratio	Concentration ng/mL	Response	RRF
PCB-001	8.97	3.24	50.00	1.18E+06	1.192
PCB-003	10.49	3.25	50.00	1.08E+06	1.201
PCB-004	10.65	1.46	50.00	5.76E+05	0.893
PCB-015	14.32	1.55	50.00	8.66E+05	1.108
PCB-019	12.64	1.06	50.00	5.83E+05	1.197
PCB-037	18.26	1.06	50.00	5.88E+05	1.139
PCB-054	14.48	0.80	50.00	7.00E+05	1.085
PCB-081	21.83	0.79	50.00	4.64E+05	1.262
PCB-077	22.13	0.79	50.00	4.59E+05	1.229
PCB-104	17.52	1.56	50.00	5.75E+05	1.176
PCB-123	23.1	1.57	50.00	3.70E+05	1.145
PCB-118	23.27	1.61	50.00	4.12E+05	1.208
PCB-114	23.58	1.61	50.00	3.86E+05	1.254
PCB-105	23.93	1.61	50.00	3.85E+05	1.229
PCB-126	25.52	1.57	50.00	3.42E+05	1.258
PCB-155	20.5	1.25	50.00	4.76E+05	1.057
PCB-167	26.4	1.24	50.00	3.31E+05	1.147
PCB-156/157	27.03	1.23	100.00	6.46E+05	1.179
PCB-169	28.7	1.24	50.00	2.96E+05	1.145
PCB-188	23.5	1.02	50.00	3.37E+05	0.984
PCB-189	29.95	1.03	50.00	2.70E+05	1.032
PCB-202	26.27	0.90	50.00	2.90E+05	1.078
PCB-205	31.34	0.92	50.00	2.11E+05	0.939
PCB-208	29.68	0.81	50.00	2.25E+05	1.251
PCB-206	32.4	0.80	50.00	1.52E+05	1.212
PCB-209	33.53	1.21	50.00	1.94E+05	0.968
Extraction Standards					
13C12-PCB-001	8.95	3.06	100.00	1.99E+06	0.979
13C12-PCB-003	10.48	3.01	100.00	1.79E+06	0.882
13C12-PCB-004	10.63	1.57	100.00	1.29E+06	0.635
13C12-PCB-015	14.32	1.66	100.00	1.56E+06	0.771
13C12-PCB-019	12.62	1.06	100.00	9.74E+05	0.480
13C12-PCB-037	18.25	1.09	100.00	1.03E+06	1.277
13C12-PCB-054	14.47	0.80	100.00	1.29E+06	1.595
13C12-PCB-081	21.82	0.83	100.00	7.36E+05	1.433
13C12-PCB-077	22.12	0.80	100.00	7.47E+05	1.455
13C12-PCB-104	17.51	1.55	100.00	9.77E+05	1.904
13C12-PCB-123	23.09	1.65	100.00	6.47E+05	1.259
13C12-PCB-118	23.26	1.63	100.00	6.83E+05	1.329
13C12-PCB-114	23.56	1.65	100.00	6.16E+05	1.199
13C12-PCB-105	23.91	1.64	100.00	6.26E+05	1.219
13C12-PCB-126	25.51	1.59	100.00	5.43E+05	1.058
13C12-PCB-155	20.49	1.24	100.00	9.00E+05	1.753
13C12-PCB-167	26.39	1.31	100.00	5.77E+05	1.177
13C12-PCB-156/157	27.02	1.31	200.00	1.10E+06	1.118
13C12-PCB-169	28.69	1.31	100.00	5.17E+05	1.053
13C12-PCB-188	23.49	1.03	100.00	6.85E+05	1.397
13C12-PCB-189	29.95	1.07	100.00	5.23E+05	1.066
13C12-PCB-202	26.26	0.90	100.00	5.39E+05	1.098
13C12-PCB-205	31.33	0.88	100.00	4.50E+05	1.421
13C12-PCB-208	29.67	0.80	100.00	3.60E+05	1.136
13C12-PCB-206	32.39	0.78	100.00	2.51E+05	0.793
13C12-PCB-209	33.5	1.21	100.00	4.01E+05	1.267
Cleanup Standards					
13C12-PCB-028	16	1.05	100.00	1.38E+06	1.711
13C12-PCB-111	22.02	1.64	100.00	5.85E+05	1.140
13C12-PCB-178	25.06	1.03	100.00	4.14E+05	0.843
Injection Standards					
13C12-PCB-9	11.9	1.55	100.00	2.03E+06	-
13C12-PCB-52	16.99	0.82	100.00	8.09E+05	-
13C12-PCB-101	20.64	1.64	100.00	5.13E+05	-
13C12-PCB-138	24.87	1.29	100.00	4.90E+05	-
13C12-PCB-194	31.05	0.86	100.00	3.17E+05	-

ALS Life Sciences

Calibration Report

ALS Sample ID **H5-20-CS4-1035**
Analysis Method EPA 1668C
Analysis Type Calibration

Filename	Inst #	Column	Run Date	Approved:	*N Ashtari*
5-201202A07	HRMS-5	SPBOCTYL25600-01	02-Dec-2020 12:39		--e-signature--
					11-Nov-2021

Target Analytes	Ret. Time	Ion Ratio	Concentration ng/mL	Response	RRF
PCB-001	8.95	3.24	400.00	1.04E+07	1.206
PCB-003	10.47	3.25	400.00	9.32E+06	1.234
PCB-004	10.63	1.49	400.00	4.77E+06	0.897
PCB-015	14.3	1.56	400.00	7.84E+06	1.166
PCB-019	12.62	1.05	400.00	4.81E+06	1.208
PCB-037	18.23	1.06	400.00	5.36E+06	1.158
PCB-054	14.47	0.79	400.00	5.90E+06	1.106
PCB-081	21.8	0.79	400.00	4.07E+06	1.280
PCB-077	22.1	0.79	400.00	4.02E+06	1.239
PCB-104	17.51	1.55	400.00	4.80E+06	1.197
PCB-123	23.08	1.57	400.00	3.16E+06	1.148
PCB-118	23.25	1.58	400.00	3.55E+06	1.237
PCB-114	23.55	1.57	400.00	3.32E+06	1.281
PCB-105	23.91	1.56	400.00	3.27E+06	1.255
PCB-126	25.5	1.59	400.00	3.01E+06	1.283
PCB-155	20.49	1.25	400.00	4.11E+06	1.089
PCB-167	26.38	1.22	400.00	2.77E+06	1.163
PCB-156/157	27.02	1.24	800.00	5.51E+06	1.199
PCB-169	28.67	1.23	400.00	2.46E+06	1.167
PCB-188	23.49	1.02	400.00	2.83E+06	1.010
PCB-189	29.95	1.03	400.00	2.25E+06	1.056
PCB-202	26.26	0.89	400.00	2.39E+06	1.115
PCB-205	31.33	0.90	400.00	1.75E+06	0.958
PCB-208	29.68	0.81	400.00	1.81E+06	1.269
PCB-206	32.4	0.81	400.00	1.26E+06	1.240
PCB-209	33.51	1.19	400.00	1.57E+06	0.970
Extraction Standards					
13C12-PCB-001	8.94	2.99	100.00	2.17E+06	1.074
13C12-PCB-003	10.47	3.05	100.00	1.89E+06	0.937
13C12-PCB-004	10.62	1.58	100.00	1.33E+06	0.659
13C12-PCB-015	14.29	1.59	100.00	1.68E+06	0.833
13C12-PCB-019	12.61	1.04	100.00	9.96E+05	0.494
13C12-PCB-037	18.22	1.08	100.00	1.16E+06	1.467
13C12-PCB-054	14.45	0.79	100.00	1.33E+06	1.691
13C12-PCB-081	21.79	0.82	100.00	7.95E+05	1.530
13C12-PCB-077	22.09	0.81	100.00	8.10E+05	1.558
13C12-PCB-104	17.49	1.57	100.00	1.00E+06	1.928
13C12-PCB-123	23.07	1.59	100.00	6.88E+05	1.323
13C12-PCB-118	23.24	1.62	100.00	7.19E+05	1.382
13C12-PCB-114	23.54	1.64	100.00	6.49E+05	1.247
13C12-PCB-105	23.9	1.64	100.00	6.52E+05	1.254
13C12-PCB-126	25.48	1.64	100.00	5.87E+05	1.129
13C12-PCB-155	20.48	1.25	100.00	9.43E+05	1.813
13C12-PCB-167	26.37	1.31	100.00	5.96E+05	1.243
13C12-PCB-156/157	27.01	1.31	200.00	1.15E+06	1.197
13C12-PCB-169	28.67	1.31	100.00	5.27E+05	1.099
13C12-PCB-188	23.48	1.03	100.00	7.01E+05	1.461
13C12-PCB-189	29.93	1.06	100.00	5.34E+05	1.112
13C12-PCB-202	26.25	0.90	100.00	5.36E+05	1.118
13C12-PCB-205	31.31	0.88	100.00	4.56E+05	1.482
13C12-PCB-208	29.67	0.80	100.00	3.57E+05	1.162
13C12-PCB-206	32.37	0.79	100.00	2.54E+05	0.825
13C12-PCB-209	33.5	1.21	100.00	4.06E+05	1.319
Cleanup Standards					
13C12-PCB-028	15.99	1.05	100.00	1.40E+06	1.778
13C12-PCB-111	22	1.63	100.00	5.85E+05	1.124
13C12-PCB-178	25.05	1.02	100.00	3.98E+05	0.830
Injection Standards					
13C12-PCB-9	11.88	1.56	100.00	2.02E+06	-
13C12-PCB-52	16.97	0.83	100.00	7.89E+05	-
13C12-PCB-101	20.62	1.62	100.00	5.20E+05	-
13C12-PCB-138	24.86	1.26	100.00	4.80E+05	-
13C12-PCB-194	31.03	0.87	100.00	3.08E+05	-

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Calibration Report

ALS Sample ID **H5-20-CS5-1035**
Analysis Method EPA 1668C
Analysis Type Calibration

Filename	Inst #	Column	Run Date	Approved:	*N Ashtari*
5-201202A08	HRMS-5	SPBOCTYL25600-01	02-Dec-2020 13:21		--e-signature--
					11-Nov-2021

Target Analytes	Ret. Time	Ion Ratio	Concentration ng/mL	Response	RRF
PCB-001	8.95	2.91	2000.00	5.31E+07	1.122
PCB-003	10.47	3.15	2000.00	5.23E+07	1.251
PCB-004	10.63	1.50	2000.00	2.62E+07	0.916
PCB-015	14.29	1.57	2000.00	4.52E+07	1.187
PCB-019	12.62	1.05	2000.00	2.62E+07	1.211
PCB-037	18.23	1.06	2000.00	3.18E+07	1.193
PCB-054	14.47	0.78	2000.00	3.29E+07	1.115
PCB-081	21.8	0.78	2000.00	2.48E+07	1.306
PCB-077	22.1	0.79	2000.00	2.43E+07	1.261
PCB-104	17.51	1.55	2000.00	2.77E+07	1.230
PCB-123	23.08	1.58	2000.00	1.98E+07	1.182
PCB-118	23.25	1.57	2000.00	2.20E+07	1.251
PCB-114	23.55	1.56	2000.00	2.09E+07	1.265
PCB-105	23.91	1.56	2000.00	2.01E+07	1.302
PCB-126	25.5	1.58	2000.00	1.99E+07	1.345
PCB-155	20.49	1.26	2000.00	2.52E+07	1.130
PCB-167	26.39	1.22	2000.00	1.75E+07	1.166
PCB-156/157	27.02	1.22	4000.00	3.68E+07	1.209
PCB-169	28.67	1.23	2000.00	1.60E+07	1.176
PCB-188	23.49	1.01	2000.00	1.81E+07	1.019
PCB-189	29.95	1.05	2000.00	1.44E+07	1.075
PCB-202	26.27	0.88	2000.00	1.55E+07	1.125
PCB-205	31.34	0.91	2000.00	1.10E+07	0.962
PCB-208	29.68	0.80	2000.00	1.19E+07	1.262
PCB-206	32.4	0.80	2000.00	7.99E+06	1.253
PCB-209	33.53	1.18	2000.00	9.81E+06	0.978
Extraction Standards					
13C12-PCB-001	8.94	3.03	100.00	2.36E+06	1.335
13C12-PCB-003	10.47	2.99	100.00	2.09E+06	1.178
13C12-PCB-004	10.62	1.58	100.00	1.43E+06	0.806
13C12-PCB-015	14.28	1.64	100.00	1.91E+06	1.076
13C12-PCB-019	12.61	1.03	100.00	1.08E+06	0.610
13C12-PCB-037	18.22	1.07	100.00	1.33E+06	1.908
13C12-PCB-054	14.46	0.79	100.00	1.48E+06	2.114
13C12-PCB-081	21.79	0.82	100.00	9.50E+05	1.916
13C12-PCB-077	22.08	0.83	100.00	9.62E+05	1.941
13C12-PCB-104	17.5	1.54	100.00	1.13E+06	2.271
13C12-PCB-123	23.08	1.57	100.00	8.38E+05	1.691
13C12-PCB-118	23.25	1.61	100.00	8.79E+05	1.773
13C12-PCB-114	23.55	1.63	100.00	8.27E+05	1.667
13C12-PCB-105	23.9	1.62	100.00	7.72E+05	1.557
13C12-PCB-126	25.48	1.61	100.00	7.41E+05	1.494
13C12-PCB-155	20.48	1.24	100.00	1.12E+06	2.252
13C12-PCB-167	26.38	1.30	100.00	7.51E+05	1.550
13C12-PCB-156/157	27.01	1.31	200.00	1.52E+06	1.570
13C12-PCB-169	28.66	1.30	100.00	6.81E+05	1.405
13C12-PCB-188	23.48	1.02	100.00	8.89E+05	1.833
13C12-PCB-189	29.93	1.06	100.00	6.70E+05	1.382
13C12-PCB-202	26.26	0.90	100.00	6.88E+05	1.418
13C12-PCB-205	31.31	0.88	100.00	5.72E+05	1.695
13C12-PCB-208	29.67	0.80	100.00	4.70E+05	1.393
13C12-PCB-206	32.39	0.80	100.00	3.19E+05	0.944
13C12-PCB-209	33.5	1.20	100.00	5.01E+05	1.486
Cleanup Standards					
13C12-PCB-028	15.99	1.06	100.00	1.28E+06	1.829
13C12-PCB-111	22.01	1.63	100.00	5.77E+05	1.164
13C12-PCB-178	25.05	1.04	100.00	4.05E+05	0.834
Injection Standards					
13C12-PCB-9	11.88	1.57	100.00	1.77E+06	-
13C12-PCB-52	16.98	0.83	100.00	6.98E+05	-
13C12-PCB-101	20.62	1.61	100.00	4.96E+05	-
13C12-PCB-138	24.86	1.30	100.00	4.85E+05	-
13C12-PCB-194	31.03	0.88	100.00	3.38E+05	-

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Secnd Source Calibration Verification Report

Sample Name	**CVS**	Sampling Date	n/a		
ALS Sample ID	H5-20-RS1-1035	Extraction Date	n/a		Approved:
Analysis Method	EPA 1668C	Sample Size	1	n/a	*N Ashtari*
Analysis Type	CCV	Percent Moisture	n/a		--e-signature--
Sample Matrix	QC	Split Ratio	1		11-Nov-2021

Run Information	**Run 1**
Filename	5-201202A09
Run Date	02-Dec-20 14:03
Final Volume	40 ul
Dilution Factor	1
Analysis Units	%
Instrument - Column	HRMS-5 SPBOCTYL256001-02

Target Analytes	**pg/uL**	**Ret. Time**	**% Rec**	**Limits**	**Flags**
PCB-001	50	8.97	104	75-125	
PCB-003	50	10.49	101	75-125	
PCB-004	50	10.65	107	75-125	
PCB-015	50	14.32	109	75-125	
PCB-019	50	12.64	111	75-125	
PCB-037	50	18.27	107	75-125	
PCB-054	50	14.49	108	75-125	
PCB-081	50	21.83	103	75-125	
PCB-077	50	22.13	103	75-125	
PCB-104	50	17.52	98	75-125	
PCB-123	50	23.10	104	75-125	
PCB-118	50	23.27	103	75-125	
PCB-114	50	23.58	104	75-125	
PCB-105	50	23.93	101	75-125	
PCB-126	50	25.52	101	75-125	
PCB-155	50	20.51	100	75-125	
PCB-167	50	26.40	100	75-125	
PCB-156/157	100	27.04	103	75-125	
PCB-169	50	28.70	106	75-125	
PCB-188	50	23.50	103	75-125	
PCB-189	50	29.96	103	75-125	
PCB-202	50	26.28	105	75-125	
PCB-205	50	31.34	99	75-125	
PCB-208	50	29.69	98	75-125	
PCB-206	50	32.41	95	75-125	
PCB-209	50	33.53	105	75-125	

Extraction Standards		**Time**	**% Rec**	**Limits**
13C12-PCB-001	100	8.97	97	50-145
13C12-PCB-003	100	10.48	97	50-145
13C12-PCB-004	100	10.63	94	50-145
13C12-PCB-015	100	14.32	98	50-145
13C12-PCB-019	100	12.62	92	50-145
13C12-PCB-037	100	18.25	94	50-145
13C12-PCB-054	100	14.47	92	50-145
13C12-PCB-081	100	21.82	94	50-145
13C12-PCB-077	100	22.12	93	50-145
13C12-PCB-104	100	17.51	92	50-145
13C12-PCB-123	100	23.09	93	50-145
13C12-PCB-118	100	23.26	94	50-145
13C12-PCB-114	100	23.56	92	50-145
13C12-PCB-105	100	23.91	93	50-145
13C12-PCB-126	100	25.52	92	50-145
13C12-PCB-155	100	20.49	91	50-145
13C12-PCB-167	100	26.39	98	50-145
13C12-PCB-156/157	200	27.03	97	50-145
13C12-PCB-169	100	28.69	101	50-145
13C12-PCB-188	100	23.49	92	50-145
13C12-PCB-189	100	29.95	104	50-145
13C12-PCB-202	100	26.26	94	50-145
13C12-PCB-205	100	31.33	97	50-145
13C12-PCB-208	100	29.68	94	50-145
13C12-PCB-206	100	32.40	97	50-145
13C12-PCB-209	100	33.51	99	50-145

Cleanup Standards				
13C12-PCB-028	100	16.00	101	65-135
13C12-PCB-111	100	22.02	99	75-125
13C12-PCB-178	100	25.06	99	75-125

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Continuing Calibration Report

Sample Name	**CCV**	Sampling Date	n/a		
ALS Sample ID	H5_21_CCV_944	Extraction Date	n/a		Approved:
Analysis Method	EPA 1668C	Sample Size	1	n/a	*N Ashtari*
Analysis Type	CCV	Percent Moisture	n/a		--e-signature--
Sample Matrix	QC	Split Ratio	1		11-Nov-2021

Run Information	**Run 1**
Filename	5_211102A16
Run Date	02-Nov-21 20:25
Final Volume	40 ul
Dilution Factor	1
Analysis Units	%
Instrument - Column	HRMS-5 SPBOCTYL256001-02

Target Analytes	**pg/uL**	**Ret. Time**	**% Rec**	**Limits**	**Flags**
PCB-001	50	8.91	91	75-125	
PCB-003	50	10.45	85	75-125	
PCB-004	50	10.61	98	75-125	
PCB-015	50	14.30	96	75-125	
PCB-019	50	12.61	101	75-125	
PCB-037	50	18.25	98	75-125	
PCB-054	50	14.46	99	75-125	
PCB-081	50	21.83	97	75-125	
PCB-077	50	22.13	95	75-125	
PCB-104	50	17.52	104	75-125	
PCB-123	50	23.11	97	75-125	
PCB-118	50	23.29	101	75-125	
PCB-114	50	23.58	94	75-125	
PCB-105	50	23.94	95	75-125	
PCB-126	50	25.54	98	75-125	
PCB-155	50	20.51	103	75-125	
PCB-167	50	26.42	101	75-125	
PCB-156/157	100	27.06	102	75-125	
PCB-169	50	28.72	103	75-125	
PCB-188	50	23.51	104	75-125	
PCB-189	50	29.99	99	75-125	
PCB-202	50	26.29	103	75-125	
PCB-205	50	31.37	102	75-125	
PCB-208	50	29.70	94	75-125	
PCB-206	50	32.45	94	75-125	
PCB-209	50	33.56	90	75-125	
Extraction Standards		**Time**	**% Rec**	**Limits**	
13C12-PCB-001	100	8.91	91	50-145	
13C12-PCB-003	100	10.44	99	50-145	
13C12-PCB-004	100	10.59	88	50-145	
13C12-PCB-015	100	14.29	106	50-145	
13C12-PCB-019	100	12.60	80	50-145	
13C12-PCB-037	100	18.24	104	50-145	
13C12-PCB-054	100	14.45	72	50-145	
13C12-PCB-081	100	21.82	98	50-145	
13C12-PCB-077	100	22.12	103	50-145	
13C12-PCB-104	100	17.50	67	50-145	
13C12-PCB-123	100	23.10	95	50-145	
13C12-PCB-118	100	23.28	94	50-145	
13C12-PCB-114	100	23.57	101	50-145	
13C12-PCB-105	100	23.93	103	50-145	
13C12-PCB-126	100	25.53	108	50-145	
13C12-PCB-155	100	20.50	77	50-145	
13C12-PCB-167	100	26.41	100	50-145	
13C12-PCB-156/157	200	27.05	99	50-145	
13C12-PCB-169	100	28.70	110	50-145	
13C12-PCB-188	100	23.50	85	50-145	
13C12-PCB-189	100	29.98	106	50-145	
13C12-PCB-202	100	26.27	85	50-145	
13C12-PCB-205	100	31.36	92	50-145	
13C12-PCB-208	100	29.69	96	50-145	
13C12-PCB-206	100	32.42	94	50-145	
13C12-PCB-209	100	33.54	83	50-145	
Cleanup Standards					
13C12-PCB-028	100	15.99	99	65-135	
13C12-PCB-111	100	22.03	103	75-125	
13C12-PCB-178	100	25.08	96	75-125	

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Continuing Calibration Report

Sample Name	**CCV**	Sampling Date	n/a		
ALS Sample ID	H5_21_CCV_946	Extraction Date	n/a		Approved:
Analysis Method	EPA 1668C	Sample Size	1	n/a	*N Ashtari*
Analysis Type	CCV	Percent Moisture	n/a		--e-signature--
Sample Matrix	QC	Split Ratio	1		11-Nov-2021

Run Information	**Run 1**
Filename	5_211102A25
Run Date	03-Nov-21 02:55
Final Volume	40 ul
Dilution Factor	1
Analysis Units	%
Instrument - Column	HRMS-5 SPBOCTYL256001-02

Target Analytes	**pg/uL**	**Ret. Time**	**% Rec**	**Limits**	**Flags**
PCB-001	50	8.91	91	75-125	
PCB-003	50	10.44	86	75-125	
PCB-004	50	10.59	99	75-125	
PCB-015	50	14.29	98	75-125	
PCB-019	50	12.60	99	75-125	
PCB-037	50	18.24	97	75-125	
PCB-054	50	14.44	99	75-125	
PCB-081	50	21.81	97	75-125	
PCB-077	50	22.12	96	75-125	
PCB-104	50	17.50	105	75-125	
PCB-123	50	23.10	97	75-125	
PCB-118	50	23.27	101	75-125	
PCB-114	50	23.57	96	75-125	
PCB-105	50	23.92	96	75-125	
PCB-126	50	25.51	98	75-125	
PCB-155	50	20.50	102	75-125	
PCB-167	50	26.41	101	75-125	
PCB-156/157	100	27.04	102	75-125	
PCB-169	50	28.70	101	75-125	
PCB-188	50	23.50	106	75-125	
PCB-189	50	29.98	100	75-125	
PCB-202	50	26.27	103	75-125	
PCB-205	50	31.36	101	75-125	
PCB-208	50	29.69	94	75-125	
PCB-206	50	32.42	96	75-125	
PCB-209	50	33.55	91	75-125	
Extraction Standards		**Time**	**% Rec**	**Limits**	
13C12-PCB-001	100	8.90	90	50-145	
13C12-PCB-003	100	10.42	96	50-145	
13C12-PCB-004	100	10.58	88	50-145	
13C12-PCB-015	100	14.27	103	50-145	
13C12-PCB-019	100	12.58	80	50-145	
13C12-PCB-037	100	18.23	105	50-145	
13C12-PCB-054	100	14.43	72	50-145	
13C12-PCB-081	100	21.80	98	50-145	
13C12-PCB-077	100	22.10	99	50-145	
13C12-PCB-104	100	17.49	66	50-145	
13C12-PCB-123	100	23.08	93	50-145	
13C12-PCB-118	100	23.25	93	50-145	
13C12-PCB-114	100	23.56	99	50-145	
13C12-PCB-105	100	23.91	102	50-145	
13C12-PCB-126	100	25.50	112	50-145	
13C12-PCB-155	100	20.49	78	50-145	
13C12-PCB-167	100	26.40	99	50-145	
13C12-PCB-156/157	200	27.04	100	50-145	
13C12-PCB-169	100	28.69	113	50-145	
13C12-PCB-188	100	23.48	82	50-145	
13C12-PCB-189	100	29.96	103	50-145	
13C12-PCB-202	100	26.26	85	50-145	
13C12-PCB-205	100	31.35	94	50-145	
13C12-PCB-208	100	29.67	98	50-145	
13C12-PCB-206	100	32.41	94	50-145	
13C12-PCB-209	100	33.52	82	50-145	
Cleanup Standards					
13C12-PCB-028	100	15.97	100	65-135	
13C12-PCB-111	100	22.02	103	75-125	
13C12-PCB-178	100	25.07	95	75-125	

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SVOC DATA PACKAGE

SECTION 5: QC SAMPLE DATA

Including:

- Laboratory Method Blank Analysis Reports
- Laboratory Control Sample Analysis Reports
- Matrix Spike Analysis Reports
- Other QC Sample Analysis Reports (where applicable)

ALS Life Sciences

Laboratory Method Blank Analysis Report

Sample Name	**Method Blank**	Sampling Date	n/a		
ALS Sample ID	WG3603574-1	Extraction Date	3-Sep-21		Approved:
Analysis Method	EPA 1668C	Sample Size	4.00	g	*N Ashtari*
Analysis Type	Blank	Percent Moisture	n/a		--e-signature--
Sample Matrix	QC	Split Ratio	2		11-Nov-2021

Run Information	**Run 1**
Filename	5_211102A21
Run Date	03-Nov-21 00:06
Final Volume	40 ul
Dilution Factor	1
Analysis Units	pg/g
Instrument - Column	HRMS-5 SPBOCTYL256001-02

Target Analytes	**TEF (WHO 2005)**	**Ret. Time**	**Conc. pg/g**	**EDL pg/g**	**Flags**	**EMPC pg/g**	**LQL**
PCB-001		8.98	<0.61	0.36	M,J,R	0.61	20
PCB-002		10.37	<0.52	0.20	J,R	0.52	20
PCB-003		10.49	1.84	0.11	M,J		20
PCB-004		10.65	2.23	0.88	M,J		20
PCB-010		NotFnd	<0.43	0.43	U		20
PCB-009		11.90	0.552	0.44	M,J		20
PCB-007		12.01	0.888	0.42	M,J		20
PCB-006		12.16	<0.51	0.42	M,J,R	0.51	20
PCB-005		NotFnd	<0.52	0.52	U		20
PCB-008		12.44	2.84	0.36	M,J		20
PCB-014		NotFnd	<0.39	0.39	U		20
PCB-011		13.92	11.0	0.41	J		20
PCB-012/013		NotFnd	<0.42	0.42	U		20
PCB-015		14.30	<0.83	0.41	J,R	0.83	20
PCB-019		12.64	<0.62	0.24	M,J,R	0.62	20
PCB-018/030		13.73	1.89	0.16	J		20
PCB-017		NotFnd	<0.20	0.20	U		20
PCB-027		NotFnd	<0.14	0.14	U		20
PCB-024		NotFnd	<0.14	0.14	U		20
PCB-016		14.26	<0.81	0.21	M,J,R	0.81	20
PCB-032		14.55	0.608	0.13	J		20
PCB-034		NotFnd	<0.14	0.14	U		20
PCB-023		NotFnd	<0.14	0.14	U		20
PCB-026/029		15.51	<0.42	0.14	J,R	0.42	20
PCB-025		15.64	0.177	0.12	M,J		20
PCB-031		15.83	1.93	0.13	J		20
PCB-020/028		16.00	2.78	0.15	J		20
PCB-021/033		16.14	1.36	0.13	J		20
PCB-022		16.38	<0.74	0.14	J,R	0.74	20
PCB-036		NotFnd	<0.13	0.13	U		20
PCB-039		NotFnd	<0.13	0.13	U		20
PCB-038		NotFnd	<0.14	0.14	U		20
PCB-035		17.99	0.293	0.14	J		20
PCB-037		18.24	<0.66	0.16	J,R	0.66	20
PCB-054		NotFnd	<0.096	0.096	U		20
PCB-050/053		15.68	0.233	0.095	J		20
PCB-045/051		16.09	0.681	0.099	J		20
PCB-046		NotFnd	<0.12	0.12	U		20
PCB-052		17.00	2.10	0.095	J		20
PCB-073		NotFnd	<0.076	0.076	U		20
PCB-043		NotFnd	<0.11	0.11	U		20
PCB-049/069		17.27	0.977	0.084	J		20
PCB-048		17.43	<0.27	0.098	M,J,R	0.27	20
PCB-044/047/065		17.56	3.02	0.090	J		20
PCB-059/062/075		17.74	<0.19	0.073	M,J,R	0.19	20
PCB-042		17.86	0.599	0.10	J		20
PCB-040/041/071		18.13	0.871	0.10	M,J		20
PCB-064		18.24	0.799	0.070	J		20
PCB-072		NotFnd	<0.10	0.10	U		20
PCB-068		18.80	<0.21	0.095	J,R	0.21	20
PCB-057		NotFnd	<0.11	0.11	U		20
PCB-058		NotFnd	<0.11	0.11	U		20
PCB-067		NotFnd	<0.093	0.093	U		20
PCB-063		NotFnd	<0.10	0.10	U		20
PCB-061/070/074/076		19.60	2.60	0.11	J		20
PCB-066		19.77	1.26	0.098	J		20
PCB-055		NotFnd	<0.11	0.11	U		20
PCB-056		20.15	<0.64	0.11	M,J,R	0.64	20
PCB-060		20.26	0.324	0.11	M,J		20
PCB-080		NotFnd	<0.092	0.092	U		20
PCB-079		NotFnd	<0.091	0.091	U		20
PCB-078		NotFnd	<0.10	0.10	U		20
PCB-081	0.0003	NotFnd	<0.11	0.11	U		20
PCB-077	0.0001	22.11	<0.20	0.11	J,R	0.20	20
PCB-104		NotFnd	<0.10	0.10	U		20
PCB-096		NotFnd	<0.090	0.090	U		20
PCB-103		NotFnd	<0.11	0.11	U		20
PCB-094		NotFnd	<0.13	0.13	U		20
PCB-095		19.14	1.30	0.12	J		20
PCB-093/098/100/102		NotFnd	<0.13	0.13	U		20

ALS Life Sciences

Laboratory Method Blank Analysis Report

Sample Name	**Method Blank**	Sampling Date	n/a		
ALS Sample ID	WG3603574-1	Extraction Date	3-Sep-21		Approved:
Analysis Method	EPA 1668C	Sample Size	4.00	g	*N Ashtari*
Analysis Type	Blank	Percent Moisture	n/a		--e-signature--
Sample Matrix	QC	Split Ratio	2		11-Nov-2021

Run Information	**Run 1**
Filename	5_211102A21
Run Date	03-Nov-21 00:06
Final Volume	40 ul
Dilution Factor	1
Analysis Units	pg/g
Instrument - Column	HRMS-5 SPBOCTYL256001-02

Target Analytes	**TEF (WHO 2005)**	**Ret. Time**	**Conc. pg/g**	**EDL pg/g**	**Flags**	**EMPC pg/g**	**LQL**
PCB-088/091		19.60	<0.20	0.13	J,R	0.20	20
PCB-084		19.74	0.423	0.15	J		20
PCB-089		NotFnd	<0.14	0.14	U		20
PCB-121		NotFnd	<0.091	0.091	U		20
PCB-092		20.34	0.305	0.13	J		20
PCB-090/101/113		20.65	1.71	0.11	M,J		20
PCB-083/099		20.97	1.05	0.13	J		20
PCB-112		NotFnd	<0.092	0.092	U		20
PCB-086/087/097/109/119/125		21.32	1.10	0.11	M,J		20
PCB-085/110/115/116/117		21.73	2.26	0.098	M,J		20
PCB-082		NotFnd	<0.15	0.15	U		20
PCB-111		22.09	<0.089	0.089	U	0.059	20
PCB-120		NotFnd	<0.083	0.083	U		20
PCB-108/124		22.90	<0.10	0.10	U	0.066	20
PCB-107		NotFnd	<0.10	0.10	U		20
PCB-123	0.00003	NotFnd	<0.11	0.11	U		20
PCB-106		NotFnd	<0.099	0.099	U		20
PCB-118	0.00003	23.28	<1.1	0.11	M,J,R	1.1	20
PCB-122		NotFnd	<0.11	0.11	U		20
PCB-114	0.00003	23.58	<0.10	0.10	U		20
PCB-105	0.00003	23.94	<0.51	0.11	J,R	0.51	20
PCB-127		NotFnd	<0.096	0.096	U		20
PCB-126	0.1	NotFnd	<0.11	0.11	U		20
PCB-155		20.50	<0.061	0.056	M,J,R	0.061	20
PCB-152		NotFnd	<0.060	0.060	U		20
PCB-150		NotFnd	<0.063	0.063	U		20
PCB-136		20.98	0.318	0.063	J		20
PCB-145		NotFnd	<0.065	0.065	U		20
PCB-148		NotFnd	<0.085	0.085	U		20
PCB-135/151		22.20	0.815	0.090	M,J		20
PCB-154		22.27	0.0760	0.075	M,J		20
PCB-144		NotFnd	<0.086	0.086	U		20
PCB-147/149		22.67	2.05	0.10	M,J		20
PCB-134/143		NotFnd	<0.11	0.11	U		20
PCB-139/140		NotFnd	<0.099	0.099	U		20
PCB-131		NotFnd	<0.12	0.12	U		20
PCB-142		NotFnd	<0.11	0.11	U		20
PCB-132		23.37	<0.56	0.11	J,R	0.56	20
PCB-133		NotFnd	<0.10	0.10	U		20
PCB-165		NotFnd	<0.076	0.076	U		20
PCB-146		23.88	0.356	0.093	J		20
PCB-161		NotFnd	<0.070	0.070	U		20
PCB-153/168		24.21	1.77	0.077	J		20
PCB-141		24.34	0.500	0.10	M,J		20
PCB-130		NotFnd	<0.11	0.11	U		20
PCB-137/164		24.74	<0.25	0.085	M,J,R	0.25	20
PCB-129/138/163		24.90	2.55	0.10	J		20
PCB-160		NotFnd	<0.060	0.060	U		20
PCB-158		25.09	0.176	0.065	J		20
PCB-128/166		25.59	0.336	0.083	M,J		20
PCB-159		NotFnd	<0.068	0.068	U		20
PCB-162		NotFnd	<0.073	0.073	U		20
PCB-167	0.00003	26.43	<0.13	0.070	M,J,R	0.13	20
PCB-156/157	0.00003	27.04	0.278	0.10	M,J		40
PCB-169	0.03	28.70	<0.077	0.077	M,U	0.044	20
PCB-188		NotFnd	<0.069	0.069	U		20
PCB-179		23.73	0.331	0.065	M,J		20
PCB-184		NotFnd	<0.064	0.064	U		20
PCB-176		NotFnd	<0.068	0.068	U		20
PCB-186		NotFnd	<0.070	0.070	U		20
PCB-178		25.09	0.175	0.096	J		20
PCB-175		NotFnd	<0.092	0.092	U		20
PCB-187		25.55	0.744	0.083	J		20
PCB-182		NotFnd	<0.093	0.093	U		20
PCB-183		25.86	0.305	0.087	M,J		20
PCB-185		25.97	<0.090	0.090	M,U	0.075	20
PCB-174		26.02	0.796	0.098	M,J		20
PCB-177		26.25	0.415	0.097	J		20
PCB-181		26.40	<0.095	0.095	M,U	0.065	20
PCB-171/173		26.59	<0.16	0.10	J,R	0.16	20
PCB-172		NotFnd	<0.097	0.097	U		20

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Laboratory Method Blank Analysis Report

Sample Name	**Method Blank**	Sampling Date	n/a		
ALS Sample ID	WG3603574-1	Extraction Date	3-Sep-21		Approved:
Analysis Method	EPA 1668C	Sample Size	4.00	g	*N Ashtari*
Analysis Type	Blank	Percent Moisture	n/a		--e-signature--
Sample Matrix	QC	Split Ratio	2		11-Nov-2021

Run Information	**Run 1**
Filename	5_211102A21
Run Date	03-Nov-21 00:06
Final Volume	40 ul
Dilution Factor	1
Analysis Units	pg/g
Instrument - Column	HRMS-5 SPBOCTYL256001-02

Target Analytes	**TEF (WHO 2005)**	**Ret. Time**	**Conc. pg/g**	**EDL pg/g**	**Flags**	**EMPC pg/g**	**LQL**
PCB-192		NotFnd	<0.078	0.078	U		20
PCB-180/193		27.71	<1.1	0.081	J,R	1.1	20
PCB-191		27.89	<0.069	0.069	U	0.029	20
PCB-170		28.40	<0.59	0.10	J,R	0.59	20
PCB-190		28.67	0.138	0.064	M,J		20
PCB-189	0.00003	NotFnd	<0.072	0.072	U		20
PCB-202		NotFnd	<0.067	0.067	U		20
PCB-201		NotFnd	<0.068	0.068	U		20
PCB-204		NotFnd	<0.070	0.070	U		20
PCB-197		NotFnd	<0.070	0.070	U		20
PCB-200		NotFnd	<0.068	0.068	U		20
PCB-198/199		28.70	0.259	0.098	J		20
PCB-196		29.03	0.156	0.098	M,J		20
PCB-203		29.15	<0.13	0.088	M,J,R	0.13	20
PCB-195		NotFnd	<0.092	0.092	U		20
PCB-194		31.08	0.700	0.086	J		20
PCB-205		31.36	<0.089	0.089	U	0.080	20
PCB-208		NotFnd	<0.15	0.15	U		20
PCB-207		NotFnd	<0.17	0.17	U		20
PCB-206		NotFnd	<0.28	0.28	U		20
PCB-209		33.56	<0.12	0.080	M,J,R	0.12	20

Extraction Standards	**pg**	**Time**	**% Rec**	**Limits**
13C12-PCB-001	4000	8.99	23	5-145
13C12-PCB-003	4000	10.48	39	5-145
13C12-PCB-004	4000	10.63	35	5-145
13C12-PCB-015	4000	14.30	50	5-145
13C12-PCB-019	4000	12.62	31	5-145
13C12-PCB-037	4000	18.23	56	5-145
13C12-PCB-054	4000	14.46	26	5-145
13C12-PCB-081	4000	21.81	51	10-145
13C12-PCB-077	4000	22.11	53	10-145
13C12-PCB-104	4000	17.51	30	10-145
13C12-PCB-123	4000	23.10	51	10-145
13C12-PCB-118	4000	23.27	50	10-145
13C12-PCB-114	4000	23.57	53	10-145
13C12-PCB-105	4000	23.92	52	10-145
13C12-PCB-126	4000	25.51	59	10-145
13C12-PCB-155	4000	20.50	38	10-145
13C12-PCB-167	4000	26.41	53	10-145
13C12-PCB-156/157	8000	27.04	51	10-145
13C12-PCB-169	4000	28.69	61	10-145
13C12-PCB-188	4000	23.50	43	10-145
13C12-PCB-189	4000	29.96	53	10-145
13C12-PCB-202	4000	26.27	45	10-145
13C12-PCB-205	4000	31.36	49	10-145
13C12-PCB-208	4000	29.68	54	10-145
13C12-PCB-206	4000	32.42	50	10-145
13C12-PCB-209	4000	33.53	40	10-145
Cleanup Standards				
13C12-PCB-028	4000	15.99	25	5-145
13C12-PCB-111	4000	22.03	29	10-145
13C12-PCB-178	4000	25.08	30	10-145

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Laboratory Method Blank Analysis Report

Sample Name	**Method Blank**	Sampling Date	n/a		
ALS Sample ID	WG3603574-1	Extraction Date	3-Sep-21		Approved:
Analysis Method	EPA 1668C	Sample Size	4.00	g	*N Ashtari*
Analysis Type	Blank	Percent Moisture	n/a		--e-signature--
Sample Matrix	QC	Split Ratio	2		11-Nov-2021

Run Information	**Run 1**
Filename	5_211102A21
Run Date	03-Nov-21 00:06
Final Volume	40 ul
Dilution Factor	1
Analysis Units	pg/g
Instrument - Column	HRMS-5 SPBOCTYL256001-02

Target Analytes	**TEF (WHO 2005)**	**Ret. Time**	**Conc. pg/g**	**EDL pg/g**	**Flags**	**EMPC pg/g**	**LQL**
Homologue Group Totals							
Total MonoCB			2.97	0.11	J		80
Total DiCB			18.9	0.36	J		160
Total TriCB			12.3	0.12	J		160
Total TetraCB			15.0	0.070	J		320
Total PentaCB			9.96	0.083	J		320
Total HexaCB			10.2	0.056	J		320
Total HeptaCB			4.75	0.064	J		160
Total OctaCB			1.25	0.067	J		160
Total NonaCB			<0.15	0.15	U		80
DecaCB			0.120	0.080	J		80
Total PCB			75.4		J		640
Toxic Equivalency - (WHO 2005)							
Lower Bound PCB TEQ			0.00000834				
Mid Point PCB TEQ			0.00676				
Upper Bound PCB TEQ			0.0134				

EDL	Indicates the Estimated Detection Limit, based on the measured background noise for this target in this sample.
TEF	Indicates the Toxic Equivalency Factor TEQ Indicates the Toxic Equivalency
LQL	Lower Quantification Limit, based on the lowest calibration level corrected for sample size, splits and dilutions.
M	Indicates that a peak has been manually integrated.
U	Indicates that this compound was not detected above the EDL.
J	Indicates that the analyte was positively identifed. The associated numerical result is an estimate.
R	Indicates that the ion abundance ratio for this analyte did not meet the control limit. The reported value represents an estimated concentration.
EMPC	Estimated Maximum Possible Concentration – elevated detection limit due to interference or positive id criterion failure

ALS Life Sciences

Laboratory Control Sample Analysis Report

Sample Name	**Laboratory Control Sample**	Sampling Date	n/a		
ALS Sample ID	WG3603574-2	Extraction Date	3-Sep-21		Approved:
Analysis Method	EPA 1668C	Sample Size	1	n/a	*N Ashtari*
Analysis Type	LCS	Percent Moisture	n/a		--e-signature--
Sample Matrix	QC	Split Ratio	2		11-Nov-2021

Run Information	**Run 1**
Filename	5_211102A18
Run Date	02-Nov-21 22:00
Final Volume	40 ul
Dilution Factor	1
Analysis Units	% Rec
Instrument - Column	HRMS-5 SPBOCTYL256001-02

Target Analytes	**pg**	**Ret. Time**	**% Rec**	**Limits**	**Flags**
PCB-001	2000	8.94	96	60-135	
PCB-003	2000	10.45	93	60-135	
PCB-004	2000	10.62	109	60-135	
PCB-015	2000	14.30	99	60-135	
PCB-019	2000	12.61	107	60-135	
PCB-037	2000	18.25	100	60-135	
PCB-054	2000	14.47	104	60-135	
PCB-081	2000	21.83	94	60-135	
PCB-077	2000	22.13	94	60-135	
PCB-104	2000	17.52	96	60-135	
PCB-123	2000	23.11	96	60-135	
PCB-118	2000	23.28	98	60-135	
PCB-114	2000	23.58	97	60-135	
PCB-105	2000	23.93	93	60-135	
PCB-126	2000	25.53	90	60-135	
PCB-155	2000	20.51	103	60-135	
PCB-167	2000	26.42	99	60-135	
PCB-156/157	4000	27.05	97	60-135	
PCB-169	2000	28.72	100	60-135	
PCB-188	2000	23.52	106	60-135	
PCB-189	2000	29.98	99	60-135	
PCB-202	2000	26.29	107	60-135	
PCB-205	2000	31.37	100	60-135	
PCB-208	2000	29.70	90	60-135	
PCB-206	2000	32.43	87	60-135	
PCB-209	2000	33.56	99	60-135	
Extraction Standards		**Time**	**% Rec**	**Limits**	
13C12-PCB-001	4000	8.92	26	15-145	
13C12-PCB-003	4000	10.44	36	15-145	
13C12-PCB-004	4000	10.61	31	15-145	
13C12-PCB-015	4000	14.29	49	15-145	
13C12-PCB-019	4000	12.60	28	15-145	
13C12-PCB-037	4000	18.24	59	15-145	
13C12-PCB-054	4000	14.46	25	15-145	
13C12-PCB-081	4000	21.81	56	40-145	
13C12-PCB-077	4000	22.12	58	40-145	
13C12-PCB-104	4000	17.51	33	40-145	
13C12-PCB-123	4000	23.10	56	40-145	
13C12-PCB-118	4000	23.27	54	40-145	
13C12-PCB-114	4000	23.57	59	40-145	
13C12-PCB-105	4000	23.92	57	40-145	
13C12-PCB-126	4000	25.51	63	40-145	
13C12-PCB-155	4000	20.50	41	40-145	
13C12-PCB-167	4000	26.41	59	40-145	
13C12-PCB-156/157	8000	27.04	56	40-145	
13C12-PCB-169	4000	28.70	68	40-145	
13C12-PCB-188	4000	23.50	47	40-145	
13C12-PCB-189	4000	29.96	60	40-145	
13C12-PCB-202	4000	26.27	49	40-145	
13C12-PCB-205	4000	31.36	51	40-145	
13C12-PCB-208	4000	29.69	59	40-145	
13C12-PCB-206	4000	32.42	53	40-145	
13C12-PCB-209	4000	33.54	40	40-145	
Cleanup Standards					
13C12-PCB-028	4000	15.99	26	15-145	
13C12-PCB-111	4000	22.03	32	40-145	
13C12-PCB-178	4000	25.08	34	40-145	

1435 Norjohn Court, Unit 1, Burlington, ON, Canada L7L 0E6

SVOC DATA PACKAGE

SECTION 6: INTERNAL RECORDS

Including:

- Prep Logs
- Independent calculation checks
- Others as listed below:

Extraction Workup Sheet

(3)

Batch ID:	WG3603574	Analysis:	Sediment - DX/PCB/PBDE **PBDE protocol**
Analyst:	Amilh Bhuvsa	Date:	03-Sep-2021

SUBSAMPLING

Sample I.D.	Client I.D.	Wet Sub-sample (g)
WG3603574-1	Method Blank	20.01
WG3603574-2	Laboratory Control Sample	20.02
WG3603574-3	Extraction and Injection STD.	—
L2625428-2	INCIN. FEED	20.45
	If copper treatment needed - only copper treat DX portion	

BATCH TRACKING

	Date/Time/Initials
Bottle volume marked:	03-Sep-2021 11:09 AM
Client Labels Checked:	AB
Samples Spiked	AR
Samples Filtered:	—
Liquid/Liquid extraction:	—
Soxhlet start time:	03-Sept-21 3:00 PM AR
Soxhlet reflux properly:	MC
Soxhlet end time:	4-Sept-2021 7:00 AM MC
Rotovap Reduction:	7-Sept-21 ACB
Rotovap Temp Verified:	7-Sept-21 ACB
Acid Column:	7-Sept-21 ACB
Split:	9-Sept-21 ACB
Alumina Column:	9-Sept-21 ACB
Carbon Column:	5-Oct-21 ACB
N-Evap Temp Verified:	9-Sept-21 ACB PCB
Micro/Robo Vial:	9-Sept-21 ACB PCB 5-Oct-21 ACB DX

Batch ID:	WG3603574

DX Extraction Standard:

Sample I.D.	Volume (ul)	(Checkmark) Spiked
WG3603574-1	40	✓
WG3603574-2	40	✓
WG3603574-3	40	✓
L2625428-2	40	✓
	40	
	40	
	40	
	40	
	40	
	40	
	40	
	40	
	40	
	40	
	40	
	40	

Syringe ID: 318

Standard: 1613B-ES#1- 093D

Spike Date: 03-Sept-2021

Spike Witnessing

Chemist: AR (Chemist's Initials)

Witness: AGB (Witness's Initials)

Correct Syringe Obtained: AGB (Witness's Initials)

Correct Standard Obtained: AGB (Witness's Initials)

Correct Technique Followed: AGB (Witness's Initials)

PCB Extraction Standard:

Sample I.D.	Volume (ul)	(Checkmark) Spiked
WG3603574-1	40	✓
WG3603574-2	40	✓
WG3603574-3	40	✓
L2625428-2	40	✓
	40	
	40	
	40	
	40	
	40	
	40	
	40	
	40	
	40	
	40	
	40	
	40	

Syringe ID: 165

Standard: 1668A-ES#2- 075m

Spike Date: 03-Sept-2021

Spike Witnessing

Chemist: AR (Chemist's Initials)

Witness: AGB (Witness's Initials)

Correct Syringe Obtained: AGB (Witness's Initials)

Correct Standard Obtained: AGB (Witness's Initials)

Correct Technique Followed: AGB (Witness's Initials)

Batch ID:	WG3603574

PBDE Extraction Standard:

Sample I.D.	Volume (ul)	Spiked (Checkmark)
WG3603574-1	40	✓
WG3603574-2	40	✓
WG3603574-3	40	✓
L2625428-2	40	✓
	40	
	40	
	40	
	40	
	40	
	40	
	40	
	40	
	40	
	40	
	40	

Syringe ID: 169

Standard: PBDEX-ES#1- 008E

Spike Date: 03-Sept-2021

Spike Witnessing

Chemist's Initials

Chemist: AR

Witness's Initials

Witness: AGB

Witness's Initials

Correct Syringe Obtained: AGB

Witness's Initials

Correct Standard Obtained: AGB

Witness's Initials

Correct Technique Followed: AGB

DX Native Standard:

Sample I.D.	Volume (ul)	Spiked (Checkmark)
WG3603574-2	40	✓
WG3603574-3	40	✓

Syringe ID: 322

Standard: 1613B-NS#3-035B

Date & Initials: 03-Sept-2021 AGB

PCB Native Standard:

Sample I.D.	Volume (ul)	Spiked (Checkmark)
WG3603574-2	40	✓
WG3603574-3	40	✓

Syringe ID: 401

Standard: 1668A-NS#1- 043F

Date & Initials: 13-Sept-2021 AGB

PBDE Native Standard:

Sample I.D.	Volume (ul)	Spiked (Checkmark)
WG3603574-2	40	✓
WG3603574-3	40	✓

Syringe ID: 324

Standard: PBDEX-NS#1- 005B

Date & Initials: 03-Sept-2021 AGB

Batch ID:	WG3603574

DX Cleanup Standard:

Sample I.D.	Volume (ul)	Spiked (Checkmark)
WG3603574-1	20	✓
WG3603574-2	20	✓
WG3603574-3	20	N/A
L2625428-2	20	✓
	20	
	20	
	20	
	20	
	20	
	20	
	20	
	20	
	20	
	20	
	20	

Syringe ID: 399

Standard: 1613B-CL#2- 080B

Date & Initials: 7-Sept-21 ACB

Correct Syringe Obtained: (Chemist's Initials) ACB

Correct Standard Obtained: (Chemist's Initials) ACB

Correct Technique Followed: (Chemist's Initials) ACB

PCB Cleanup Standard:

Sample I.D.	Volume (ul)	Spiked (Checkmark)
WG3603574-1	20	✓
WG3603574-2	20	✓
WG3603574-3	20	N/A
L2625428-2	20	✓
	20	
	20	
	20	
	20	
	20	
	20	
	20	
	20	
	20	
	20	

Syringe ID: 378

Standard: 1668A-CL#2- 041I

Date & Initials: 7-Sept-21 ACB

Correct Syringe Obtained: (Chemist's Initials) ACB

Correct Standard Obtained: (Chemist's Initials) ACB

Correct Technique Followed: (Chemist's Initials) ACB

Batch ID:	WG3603574

PBDE Cleanup Standard:

Sample I.D.	Volume (ul)	Spiked (Checkmark)
WG3603574-1	20	✓
WG3603574-2	20	✓
WG3603574-3	20	N/A
L2625428-2	20	✓
	20	
	20	
	20	
	20	
	20	
	20	
	20	
	20	
	20	
	20	

Syringe ID: 386

Standard: PBDEX-CL#1- 005F

Date & Initials: 7-Sept-21 ACB

Correct Syringe Obtained: ACB (Chemist's Initials)

Correct Standard Obtained: ACB (Chemist's Initials)

Correct Technique Followed: ACB (Chemist's Initials)

PCB Injection Standard:

Sample I.D.	Volume (ul)	Spiked (Checkmark)
WG3603574-1	5	✓
WG3603574-2	5	✓
WG3603574-3	5	✓
L2625428-2	5	✓
	5	
	5	
	5	
	5	
	5	
	5	
	5	
	5	
	5	
	5	
	5	
	5	
	5	
	5	
	5	
	5	
	5	

Syringe ID: 407

Standard: 1668A-IS#2- 016E

Date & Initials: 9-Sept-21 ACB

Correct Syringe Obtained: ACB (Chemist's Initials)

Correct Standard Obtained: ACB (Chemist's Initials)

Correct Technique Followed: ACB (Chemist's Initials)

Batch ID:	WG3603574

PBDE Injection Standard: (Checkmark)

Sample I.D.	Volume (ul)	Spiked
WG3603574-1	5	✓
WG3603574-2	5	✓
WG3603574-3	5	✓
L2625428-2	5	✓
	5	
	5	
	5	
	5	
	5	
	5	
	5	
	5	
	5	
	5	
	5	
	5	
	5	
	5	
	5	
	5	

Syringe ID: 341

Standard: PBDEX-IS#1-

Date & Initials: 9-Sept-21 ACB

Chemist's Initials

Correct Syringe Obtained: ACB

Chemist's Initials

Correct Standard Obtained: ACB

Chemist's Initials

Correct Technique Followed: ACB

DX Injection Standard: (Checkmark)

Sample I.D.	Volume (ul)	Spiked
WG3603574-1	10	✓
WG3603574-2	10	✓
WG3603574-3	10	-
L2625428-2	10	✓
	10	
	10	
	10	
	10	
	10	
	10	
	10	
	10	
	10	
	10	
	10	
	10	
	10	
	10	
	10	
	10	
	10	

Syringe ID: 368

Standard: 1613B-IS#1- 095I

Date & Initials: 5-Oct-21 ACB

Chemist's Initials

Correct Syringe Obtained: ACB

Chemist's Initials

Correct Standard Obtained: ACB

Chemist's Initials

Correct Technique Followed: ACB

Could not find W3
5-Oct-21 ACB

Batch ID:	WG3603574

Procedure:

This batchsheet is a guideline only. Please see test procedure for complete set of instructions.

Extraction:

- Subsample size =20g. Dry Weight 10g.
- Mix with sand to create a free-flowing mixture.
- Spike Extraction and Native Standards.
- Dean-Stark Soxhlet extract in Toluene.

- Roto-vap down to ~2ml
- Transfer to a c-tube with 3x2ml Hexane rinses.
- Reduce to 1mL and spike cleanup standards.
- Perform Acid Silica column
- Elute to 50ml with Hexane.

Reduce to 2mL and Split **1/2 DX 1/2 PCB/PBDE**

-Perform Copper treatment only on DX portion!

PCB/PBDE

- Reduce to 50uL, bulk up with 1mL of Hexane
- **Perform Alumina Column:**
  - Pre-elute the Alumina Column with 7ml Hexane
  - Place F1 c-tube under the column, then load the sample with 3x 1ml Hexane Rinses
  - F1 1mL of Hexane
  - Place F2 c-tube under the column. Ensure ctube is accurately marked for split
  - F2 (DX/PCB/PBDE) **25ml** 1:1 DCM:Hexane
- Blow down to ~500ul

PCB/PBDE:

- Vortex **very** well.
- Transfer every last drop to a micro-vial (no rinses).
- Blow down **VERY GENTLY** to the mark. (Micro-vial should contain **30ul Toluene**, and the level should be marked with a **fine tipped black marker**.)
- Spike PCB and PBDE Injection Standards. Cap and Vortex **FV = 40ul**

DX:

- Carbon Column: - 4cm of well-packed chroma-carb.
  - Pre-elute Carbon with 5ml Hexane
  - Transfer with 3x1ml Hexane
  - F1 = **10ml** 1:1 DCM:Hexane (Archive)
  - After dripping has stopped Invert Column.
  - F2 = 14ml Toluene (DX)

- After the column has stopped dripping reduce the **F2** portion down to ~1/2ml.

- Vortex well, then transfer to a micro-vial without rinses.
- Blow the micro-vial down to just-dry.
- Spike with Injection Standard, Cap the micro-vial, and Vortex. **FV=10ul**

Approval of Deviation from Standard Method

(Batch Writer): _____

☐ Procedure does deviate from Standard Method. **Approved (Supervisor/Manager):** _____

Comments:

- Label and save all columns.

Reagent Lot Numbers:

Reagent	Lot#	Comment
Acetone	166330	
Hexane	106396	
DCM	106399	
Toluene	106301	
Nonane	ORG-WAKONON- 61	
1:1 DCM:HEX	ORG-DH2- 713	
Sodium Sulphate	ORG-SSU- 2706, 2722	
Acid Silica	ORG-ASI- 10264, 10267	
Neutral Silica	ORG-NSI- 2654, 2655	
Alumina	ORG-ALU- 515	
Chromacarb	ORG-CC- 315	

ALS Life Sciences

Sample Calculation Report

Approved: *N Ashtari* --e-signature-- 11-Nov-2021

CS3 RRF Check

$$RRF = \frac{\text{Response of PCB-118}}{\text{Response of 13C12-PCB-118}} \times \frac{\text{Concentration of 13C12-PCB-118}}{\text{Concentration of PCB-118}}$$

	Calculated Value	Value from TargetLynx
RRF = (412135.20 / 682591.40) x (100 / 50)	**1.21**	**1.21**

Calculation of PCB-118 amount in L2625428-2

$$pg/g = \frac{\text{Response of PCB-118}}{\text{Response of 13C12-PCB-118}} \times \frac{\text{pg of 13C12-PCB-118 spiked}}{\text{Mean RRF} * \text{Sample Size}}$$

pg/g = (122392 / 78605.6) x (4000 / 1.17 * 4.27)	**1250**	**1250**	

Calculation of 13C12-PCB-118 Recovery in L2625428-2

$$\%\ Recovery = \frac{\text{Response of 13C12-PCB-118}}{\text{Response of 13C12-PCB-101}} \times \frac{\text{pg of 13C12-PCB-101 spiked} * 100}{\text{Mean RRF} * \text{pg 13C12-PCB-118 Spiked}}$$

% Recovery = (78605.6 / 81462.2) x (4000 * 100 / 1.42 * 4000)	**68**	**68**	**%**

1435 Norjohn Court, Unit 1, Burlington, ON, Canada L7L 0E6

SVOC DATA PACKAGE

SECTION 7: SHIPPING/RECEIVING DOCUMENTS

Including:

- Airbills
- Chain-of-Custody Records
- Sample Log-in Sheet(s) - where applicable
- Others as listed below:

ALS Environmental Chain of Custody

1317 South 13th Avenue • Kelso, WA 98626 • 1-360-577-7222 • FAX 1-360-636-1068

ALS Contact: Sydney A. Wolf

Project Number: K2109142
Project Manager: Sydney A. Wolf
QAP: LAB QAP

Lab Code	Sample ID	# of Cont.	Matrix	Sample Date	Sample Time	Lab ID	Cl Biphen Cong 1668C	Dioxins Furans 1613B	Misc Out 1 None	Misc Out 2 None
K2109142-001	Final Effluent	3	Water	8/4/21		Burlington ALS	X	X		X
K2109142-002	Incin. Feed	1	Soil	8/4/21		Burlington ALS	X	X	X	

L2625428-COFC

Test Comments

Dioxins Furans - 1613B	K2109142-001,2	Burlington
Cl Biphen Cong - 1668C	K2109142-002	Burlington
Misc Out 1 - None	K2109142-002	PBDEs Burlington
Misc Out 2 - None	K2109142-001	PBDEs Burlington

Special Instructions/Comments
Please provide the electronic (PDF and EDD) report to the following e-mail address: ALKLS.Data@alsglobal.com.

H - Test is On Hold P - Test is Authorized for Prep Only

Turnaround Requirements
____ **RUSH** (Surcharges Apply)
PLEASE CIRCLE WORK DAYS
1 2 3 4 5
X **STANDARD**
Requested FAX Date: _____
Requested Report Date: 09/08/21

Report Requirements
____ I. Results Only
____ II. Results + QC Summaries
____ III. Results + QC and Calibration Summaries
X IV. Data Validation Report with Raw Data
PQL/MDL/J Y
EDD N

Invoice Information
PO# 51K2109142
Bill to

Relinquished By: ALS Canada Ltd. 8/9/21 Received By: L2625428-COFC PCB/DPRG 24-AUG-21 Airbill Number:

Page 1 of 2676 15:40 3.8°C

Sample Receiving Log

Date/Time Received	Client ID	Number/Description of Containers	Temp. on Receipt*	Condition of Samples, Courier & Tracking Information	Receiver's Initials	Date/Time Login Completed	Submission ID L2625333	Sample ID Range -1-17
10-Aug-24 15:40	ALS KELSO	44 x jars of sediment 28 x 1L amber bottles	3.8°C	Good FedEx 9340 2499 2668	NJ	11-Aug-2024 16:10	L2625409 L2625400 L2625382 L2625417 L2625428	-1-18 -1-13 -1-11 -1-5 -1-2

[redacted]

Raw Data

ALS Environmental—Kelso Laboratory
1317 South 13th Avenue, Kelso, WA 98626
Phone (360)577-7222 Fax (360)636-1068
www.alsglobal.com

Total Solids

ALS Environmental—Kelso Laboratory
1317 South 13th Avenue, Kelso, WA 98626
Phone (360)577-7222 Fax (360)636-1068
www.alsglobal.com

Benchsheet

Service Request #: K2109234, KQ2116593, K2109142
Run #: 736766
Test: TS
Balance ID: K-BALANCE-48
Method: 160.3 Modified

Matrix	Lab Code	Tare (g)	Wet Wt. (g)	Tare + Dry Wt. (g)	Dry Weight (g)	% Total Solids	RPD
Solid	K2109234-001	1.220	10.289	7.197	5.98	58.1	
Solid	K2109234-001DUP	1.215	10.784	7.460	6.25	57.9	<1
Soil	K2109142-002	1.230	10.288	3.382	2.15	20.9	
Soil	K2109142-002DUP	1.254	10.333	3.383	2.13	20.6	1

	Oven ID	Temp In	Temp Out	Date In	Time In	Date Out	Time Out	Thermometer ID
Oven1	K-OVEN-07	105	105	8/27/2021	16:35	8/30/2021	06:25	

	Cal EQID	Cal Start Value	Cal End Value	Start Date	Start Time	End Date	End Time
Calibration1	K-BALANCE-48	1.000, 99.999	1.000, 100.000	8/27/2021	16:31	8/27/2021	16:35
Calibration2	K-BALANCE-48	0.999, 99.998	1.000, 100.001	8/30/2021	08:44	8/30/2021	08:45

Comments: SN 42868 BD Reviewed by LA 9/2/21

Polycyclic Aromatic Hydrocarbons by GC/MS SIM

ALS Environmental—Kelso Laboratory
1317 South 13th Avenue, Kelso, WA 98626
Phone (360)577-7222 Fax (360)636-1068
www.alsglobal.com

Preparation Information Benchsheet

Prep Run#: 385208
Team: Semivoa GCMS/WSTRUBLE
Number of Copies to make: 2

Prep WorkFlow: OrgExtSimAq(7)
Prep Method: EPA 3511

Status: Prepped
Prep Date/Time: 8/12/21 18:06

#	Lab Code	Client ID	B#	Method /Test	pH	Matrix	Amt. Ext.	Final Vol	Sample Description
1	K2109142-001	Final Effluent	.09	8270D/PAH SIM		Water	450mL	2.00mL	
2	K2109277-001	MW-2	.07	8270D/PAH SIM		Water	125 ~~450~~mL	2.00mL	
3	K2109277-002	MW-3	.07	8270D/PAH SIM		Water	125 ~~450~~mL	2.00mL	
4	K2109277-003	MW-4	.07	8270D/PAH SIM		Water	125 ~~450~~mL	2.00mL	
5	K2109277-004	PW-1	.08	8270D/PAH SIM		Water	125 ~~450~~mL	2.00mL	
6	K2109277-005	PW-2	.07	8270D/PAH SIM		Water	125 ~~450~~mL	2.00mL	
7	K2109277-006	PW-4	.07	8270D/PAH SIM		Water	125 ~~450~~mL	2.00mL	
8	K2109277-007	PW-5	.07	8270D/PAH SIM		Water	125 ~~450~~mL	2.00mL	
9	K2109277-008	RW-1	.08	8270D/PAH SIM		Water	125 ~~450~~mL	2.00mL	
10	K2109277-009	PW-3	.07	8270D/PAH SIM		Water	125 ~~450~~mL	2.00mL	
11	KQ2115373-01	LCS		8270D/PAH SIM		Liquid	450mL	2.00mL	
12	KQ2115373-02	DLCS		8270D/PAH SIM		Liquid	450mL	2.00mL	
13	KQ2115373-03	MB		8270D/PAH SIM		Liquid	450mL	2.00mL	

EE 8-17-21 eb

Spiking Solutions

Name: 8270 ALL PURPOSE SURROGATE Inventory ID 215922 Logbook Ref: SVM65-64C Expires On: 09/09/2021

K2109142-001	20.00µL	K2109277-001	20.00µL	K2109277-002	20.00µL	K2109277-003	20.00µL	K2109277-004	20.00µL	K2109277-005	20.00µL
K2109277-006	20.00µL	K2109277-007	20.00µL	K2109277-008	20.00µL	K2109277-009	20.00µL	KQ2115373-01	20.00µL	KQ2115373-02	20.00µL
KQ2115373-03	20.00µL										

Name: 8270 SIM-PAH Matrix Spike 25ppm Inventory ID 218162 Logbook Ref: SVM66-34B Expires On: 01/06/2022

~~K2109142-001~~	~~50.00µL~~	KQ2115373-01	50.00µL	KQ2115373-02	50.00µL

eb 8/13

Preparation Steps

Step: Extraction
Started: 8/12/21 18:06
Finished: 8/12/21 18:36
By: WSTRUBLE
Comments

Step: Final Volume
Started: 8/12/21 20:54
Finished: 8/12/21 20:54
By: WSTRUBLE
Comments

Comments: Insufficient Sample for MS, DMS IS = SVM65-24B

Reviewed By: _____ Date: 08/16/2021

Preparation Information Benchsheet

Prep Run#: 385208
Team: Semivoa GCMS/WSTRUBLE

Prep WorkFlow: OrgExtSimAq(7)
Prep Method: EPA 3511

Status: Prepped
Prep Date/Time: 8/12/21 18:06

Chain of Custody

Relinquished By:		Date: 8/12/21	Extracts Examined
Received By:		Date: 8/12/21	Yes / No

Preparation Information Benchsheet

Prep Run#: 385208
Team: Semivoa GCMS/WSTRUBLE
Number of Copies to make: 2

Prep WorkFlow: OrgExtSimAq(7)
Prep Method: EPA 3511

Status: Draft
Prep Date/Time: 8/12/21 02:00 PM

#	Lab Code	Client ID	B#	√	Method /Test	Matrix	Amt. Ext. mL	pH	Int. Vol	Final Vol mL	Surr Amt uL	Spike Amt uL
1	**K2109142-001**	Final Effluent	.9	✓	8270D / PAH SIM	Water	450	6		2	20	-
2	**K2109277-001**	MW-2	.7	✓	8270D / PAH SIM	Water	125 ~~450~~	7		2	20	-
3	**K2109277-002**	MW-3	.7	✓	8270D / PAH SIM	Water	125 450	7		2	20	-
4	**K2109277-003**	MW-4	.7		8270D / PAH SIM	Water	125 ~~450~~	7		2	20	-
5	**K2109277-004**	PW-1	.8	✓	8270D / PAH SIM	Water	125 ~~450~~	7		2	20	-
6	**K2109277-005**	PW-2	.7	✓	8270D / PAH SIM	Water	125 ~~450~~	7		2	20	-
7	**K2109277-006**	PW-4	.7	✓	8270D / PAH SIM	Water	125 450	7		2	20	-
8	**K2109277-007**	PW-5	.7	✓	8270D / PAH SIM	Water	125 450	7		2	20	-
9	**K2109277-008**	RW-1	.8	✓	8270D / PAH SIM	Water	125 450	7		2	20	-
10	**K2109277-009**	PW-3	.7	✓	8270D / PAH SIM	Water	125 450	7		2	20	-
11	**KQ2115373-01**	LCS		—	8270D / PAH SIM	Liquid	125 ~~450~~	6		2	20	-
12	**KQ2115373-02**	DLCS		—	8270D / PAH SIM	Liquid	450	5		2	20	50
13	**KQ2115373-03**	MB		—	8270D / PAH SIM	Liquid	450	5		2	20	50
							450	5		2	20	-

EE 8/17/21 eb

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Comments:

Surrogate ID: SVm65-64C, xp 9/9/21, 100/150 ppm, 70uL

Spike ID: SVm66-34B, xp 1/6/22, 25ppm, 50uL

Witnessed By:

Analyst: W.Struble

Assisted By:

ALS Environmental
Extraction Analyst Notes

Service Request: K2109142, 9277 Prep Group: KQ2119313

Topic	Notes	Initials/Date
No Anomalies: ☑		
Sample Anomalies: □		
Organics Present (sticks, leafs, bugs): □		
Fuel Odors: □		
Sulfur Odors, Precipitate: □		
General Notes:	All Samples from K2109277, volumed at 125mL, then brought to 450mL with DI H_2O. 9142-1 vialed at .250mL due to emulsions. Insufficient time to meet HT.	8/12/21 WS 8/12/21

Reviewed by: Jonathon Walter 12/19/18 EXT-NOTES r.0

ALS Environmental

Appendix from EXT-3511 Extracting Pest/PCB/PAH in Water
EPA Method 3511

Service Request # K2109142, 9277 **Work Group # Pest:** –
PCB: –
PAH: KQ2115373

Hexane Lot # 276681

Extraction Start (time/date/initial): 18:06 8/12/21 WS

Extraction Stop (time/date/initial): 18:36 8/12/21 WS

NaCL Lot# 2132456959
Sulfate Lot # 2020082001

Carbon Clean-up (Ext-Car)(time/date/initial): – Carbon Lot # –
1:1 DCM/Hexane Lot # –

Sulfuric Acid Clean-up (3665) (time/date/initial): – Acid Lot # –

Other Clean-up (type/time/date/initial) –
Lot# –

Pipette (5 mL) Lot # – Pipette (2 mL) Lot # –
Pipette (1mL) HH156

Pest Vial: – Vial Storage: –
PCB Vial: – Vial Storage: –
PAH Vial: Green Vial Storage: K Tundra

Archived Extract Storage:

Additional Comments:

Bench Sheet Review Check List
☑ Hold times met; if no, reason:
☑ Prep date, time, method, department, product code correct
☑ Spike information and Q.C. correct (insufficient volume or mass recorded if no Q.C.)
☑ Weights/Volumes and units correct on raw and final bench sheets
☑ Sample IDs have been checked - bottle numbers appended if required
☑ Names present for: started by, completed by, relinquished by, and witnessed by
☑ Extract storage recorded
☑ Additional prep sheet completely filled out (NA or line out blanks)
☑ All clean-ups have been noted on additional prep sheet

Preparation Information Benchsheet

Prep Run#: 385361
Team: Semivoa GCMS/RZIELINSKI
Number of Copies to make: 2

Prep WorkFlow: OrgExtSimS(14)
Prep Method: EPA 3546

Status: Prepped
Prep Date/Time: ~~8/13/21 17:24~~ BL 8/20 8/17/21 17:55

#	Lab Code	Client ID	B#	Method /Test	pH	Matrix	Amt. Ext.	Final Vol	Sample Description
1	K2109020-002	PD-SC1-112-01.0to02.0	.02	8270D/PAH SIM		Soil	10.174g	10.00mL	BDOWNER K-BALANCE-48
2	K2109020-003	PD-SC1-112-02.0to03.0	.01	8270D/PAH SIM		Soil	10.761g	10.00mL	BDOWNER K-BALANCE-48
3	K2109020-004	PD-SC1-112-03.0to04.0	.12	8270D/PAH SIM		Soil	10.175g	10.00mL	BDOWNER K-BALANCE-48
4	K2109020-005	PD-SC1-112-04.0to05.0	.13	8270D/PAH SIM		Soil	10.288g	10.00mL	BDOWNER K-BALANCE-48
5	K2109020-020	PD-SC1-125-01.0to02.0	.03	8270D/PAH SIM		Soil	10.823g	10.00mL	BDOWNER K-BALANCE-48
6	K2109020-021	PD-SC1-125-02.0to03.0	.01	8270D/PAH SIM		Soil	10.091g	10.00mL	BDOWNER K-BALANCE-48
7	K2109020-022	PD-SC1-125-03.0to04.0	.09	8270D/PAH SIM		Soil	10.206g	10.00mL	BDOWNER K-BALANCE-48
8	K2109020-023	PD-SC1-125-04.0to05.0	.01	8270D/PAH SIM		Soil	10.155g	10.00mL	BDOWNER K-BALANCE-48
9	K2109142-002	Incin. Feed	.01	8270D/PAH SIM		Soil	10.492g	10.00mL	AMOORE k-balance-54
10	KQ2115593-03	K2109020-002 MS	.02	8270D/PAH SIM		Solid	10.328g	10.00mL	BDOWNER K-BALANCE-48
11	KQ2115593-04	K2109020-002 DMS	.02	8270D/PAH SIM		Solid	10.319g	10.00mL	BDOWNER K-BALANCE-48
12	KQ2115593-05	LCS		8270D/PAH SIM		Solid	10.00g	10.00mL	
13	KQ2115593-06	MB		8270D/PAH SIM		Solid	10.8230g	10.00mL	

Spiking Solutions

Name: 8270 ALL PURPOSE SURROGATE Inventory ID 215922 Logbook Ref: SVM65-64C Expires On: 09/09/2021

K2109020-002	20.00µL	K2109020-003	20.00µL	K2109020-004	20.00µL	K2109020-005	20.00µL	K2109020-020	20.00µL	K2109020-021	20.00µL
K2109020-022	20.00µL	K2109020-023	20.00µL	K2109142-002	20.00µL	KQ2115593-03	20.00µL	KQ2115593-04	20.00µL	KQ2115593-05	20.00µL
KQ2115593-06	20.00µL										

Name: 8270 SIM-PAH Matrix Spike 25ppm Inventory ID 218162 Logbook Ref: SVM66-34B Expires On: 01/06/2022

KQ2115593-03	200.00µL	KQ2115593-04	200.00µL	KQ2115593-05	200.00µL

Preparation Steps

Step:	Weigh	Step:	Extraction	Step:	Final Volume
Started:	8/13/21 17:24	Started:	8/17/21 17:55	Started:	8/19/21 07:28
Finished:	8/16/21 19:45	Finished:	8/17/21 18:40	Finished:	8/19/21 12:13
By:	~~RZIELINSKI~~ BDOWNER	By:	RZIELINSKI	By:	HKEIMIG
Comments	BL 8/20	Comments		Comments	

Comments: IS=SVM65-24B

Reviewed By: BL Date: 8/23/21

Printed 8/19/21 14:21

Preparation Information Benchsheet

Prep Run#: 385361
Team: Semivoa GCMS/RZIELINSKI

Prep WorkFlow: OrgExtSimS(14)
Prep Method: EPA 3546

Status: Prepped
Prep Date/Time: 8/13/21 17:24

Chain of Custody

Relinquished By: [signature] Date: 8/19/21

Received By: [signature] Date: 8/19/21

~~Extracts~~ Examined
(Yes) No

Preparation Information Benchsheet

Prep Run#: 385361
Team: Semivoa GCMS/RZIELINSKI
Number of Copies to make: 2

Prep WorkFlow: OrgExtSimS(14)
Prep Method: EPA 3546

Status: Draft
Prep Date/Time: 8/16/21 11:27 AM

#	Lab Code	Client ID	B#	√	Method /Test	Matrix	Amt. Ext. g	pH	Int. Vol ml	Final Vol ml	Surr Amt 1x	Spike Amt µl
1	**K2109020-002**	PD-SC1-112-01.0to02.0	.02		8270D / PAH SIM	Soil	~~1~~	NA	40	10	20	-
2	**K2109020-003**	PD-SC1-112-02.0to03.0	.01		8270D / PAH SIM	Soil	~~1~~		40	10		-
3	**K2109020-004**	PD-SC1-112-03.0to04.0	.12		8270D / PAH SIM	Soil	~~1~~		40	10		-
4	**K2109020-005**	PD-SC1-112-04.0to05.0	.13		8270D / PAH SIM	Soil	~~1~~		40	10		-
5	**K2109020-020**	PD-SC1-125-01.0to02.0	.03		8270D / PAH SIM	Soil	~~1~~		40	10		-
6	**K2109020-021**	PD-SC1-125-02.0to03.0	.01		8270D / PAH SIM	Soil	~~1~~		40	10		-
7	**K2109020-022**	PD-SC1-125-03.0to04.0	.09		8270D / PAH SIM	Soil	~~1~~		40	10		-
8	**K2109020-023**	PD-SC1-125-04.0to05.0	.01		8270D / PAH SIM	Soil	~~1~~		40	10		-
9	**K2109142-002**	Incin. Feed	.01		8270D / PAH SIM	Soil	~~1~~		40	10		-
10	**KQ2115593-03**	K2109020-002 MS	.02		8270D / PAH SIM	Solid	~~1~~		40	10		100
11	**KQ2115593-04**	K2109020-002 DMS	.02		8270D / PAH SIM	Solid	~~1~~		40	10		
12	**KQ2115593-05**	LCS			8270D / PAH SIM	Solid	10.000		40	10		
13	**KQ2115593-06**	MB			8270D / PAH SIM	Solid	10.423		40	10		-

Comments: ~~1~~ See pre-prep Benchsheet

Surrogate ID: SUMS5-64C 100/150ppm xp: 9/9/21

Spike ID: SUM66-34B 25ppm Mix4 xp: 1/6/22

Witnessed By: BGreer

Analyst: [signature]

Assisted By:

385361

Pre-Prep Information Benchsheet

Prep Run #: ~~385317~~

Container Lot No: 062121-1BNU

Prep Due Date: Aug-17-2021

#	Lab Code	Bottle	Test Name	Weight	Sample Comments	Test Comments
1	K2109142-002	.03	PAH SIM : 8270D/	10.492g		AMOORE k-balance-54
2	~~K2109142-002 MS~~ KQ2115543-01	.03	PAH SIM : 8270D/ (1)	~~10.200g~~		AMOORE k-balance-54
3	~~K2109142-002 DMS~~ KQ2115543-02	.03	PAH SIM : 8270D/ (1)	~~10.139g~~		AMOORE k-balance-54

(1) QC not required BG 8/16/21

Relinquished By: AM	Date/Time: 8/13/21 17:54	Received By:	Date/Time: 1445 8/16/21

Pre-Prep Information Benchsheet

Prep Run #: 385361 **Container Lot No:** 051721-1sr **Prep Due Date:** Aug-06-2021

#	Lab Code	Bottle	Test Name	Weight	Sample Comments	Test Comments
1	K2109020-002	.02	PAH SIM : 8270D/	10.174g		BDOWNER K-BALANCE-48
2	K2109020-002 MS KQ2115593-03	.02	PAH SIM : 8270D/	10.328g		BDOWNER K-BALANCE-48
3	K2109020-002 DMS KQ2115593-04	.02	PAH SIM : 8270D/	10.319g		BDOWNER K-BALANCE-48
4	K2109020-003	.01	PAH SIM : 8270D/	10.761g		BDOWNER K-BALANCE-48
5	K2109020-004	.12	PAH SIM : 8270D/	10.175g		BDOWNER K-BALANCE-48
6	K2109020-005	.13	PAH SIM : 8270D/	10.288g		BDOWNER K-BALANCE-48
7	K2109020-020	.03	PAH SIM : 8270D/	10.823g		BDOWNER K-BALANCE-48
8	K2109020-021	.01	PAH SIM : 8270D/	10.091g		BDOWNER K-BALANCE-48
9	K2109020-022	.09	PAH SIM : 8270D/	10.206g		BDOWNER K-BALANCE-48
10	K2109020-023	.01	PAH SIM : 8270D/	10.155g		BDOWNER K-BALANCE-48

Relinquished By:	Date/Time: 8/16/21 1138	Received By:	Date/Time: 1945 8/16/21

ALS Environmental
Extraction Analyst Notes

Service Request: K2109020, 9142 **Prep Group:** KQ2115593

Topic	Notes	Initials/Date
No Anomalies: ☑		
Sample Anomalies: ☐		
Organics Present (sticks, leafs, bugs): ☐		
Fuel Odors: ☐		
Sulfur Odors, Precipitate: ☐		
General Notes:		

Reviewed by: Jonathon Walter 12/19/18

Additional Prep Information for EPA 3546
PAH in Soil

Service Request # 160 9020, 9142 **Work Group #** KQ2115513

4:1 Hexane:Acetone Lot # 18Ext03-SW Sulfate Lot # 160295203

Extraction Start (time/date/initial): 1755 8/17/19 KL

Extraction Stop (time/date/initial): 1840 8/17/19 KL

Aliquot Amount: 4ml Verified (date/initials): —

Pipette Lot # (2 mL) —

N-Evap (time/date/initial): 728 8/19 [signature] N-Evap Thermometer ID: N-SVM-010

Temp as measured: 20 °C Correction factor: 0 °C Adjusted temp: 20 °C

Hexane Exchange for Silica Gel (Time/Date/Initial): 750 8/19 [signature]

Hexane Lot # 276681

Silica Gel Clean-up (3630) (Time/Date/Initial): 822 8/19 [signature]

Silica Column Lot # 19Ext01-9I 1:1 Hexane/DCM Reagent Lot # 19ExG01-25H

Turbovap (Time/Date/Initial): 847 8/19 [signature] Turbovap Therm. ID: K-TURBOVAP-05

Temp as measured: 27 °C Correction factor: 0 °C Adjusted temp: 27 °C

DCM Lot # EB924-05

Pipette Lot # (~~1mL~~ 2mL) 19470646

Completed by (Time/Date/Initial): 1213 8/19 [signature]

Vial: Green Vial Storage: —

Archived Extract Storage: Jade

Additional Comments: _____

Bench Sheet Review Check List	
☑	Hold times met; if no, reason:
☑	Prep date, time, method, department, product code correct
☑	Spike information and Q.C. correct (insufficient volume or mass recorded if no Q.C.)
☑	Weights/Volumes and units correct on raw and final bench sheets
☑	Sample IDs have been checked - bottle numbers appended if required
☑	Names present for: started by, completed by, relinquished by, and witnessed by
☑	Extract storage recorded
☑	Additional prep sheet completely filled out (NA or line out blanks)
☑	All clean-ups have been noted on additional prep sheet

1st 08/17/21
2nd 08/19/21

Validation Report

Data File: J:\MS14\DATA\081321\0813F015.D\
Lab ID: K2109142-001
RunType: N/A
Matrix: Water

Date Acquired: 8/13/21 16:46:00
Batch ID: 735140
Analysis Method: 8270D/PAH SIM

Validations

Validation Categories	Pass	Fail
Preparation Hold Time	X	
Analytical Hold Time	X	
ICAL Analyte Recovery	X	
Second Source ICAL Verification	X	
Continuing Calibration Recovery	X	
Lab Control Sample Recovery	X	
Duplicate Lab Control Sample Recovery	X	
Method Blank	X	
Method Blank Surrogates	X	
Internal Standards	X	
Surrogates	X	
Std MRL Unsupported by ICAL	X	
Above Highest ICAL Level	X	

Primary Review: _____

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Secondary Review: _____

1st 08/17/21
2nd 08/19/21

Quantitation Report

Data File:	J:\MS14\DATA\081321\0813F015.D\	**Instrument:**	K-MS-14
Acqu Date:	8/13/21 16:46:00	**Vial:**	15
Run Type:	N/A	**Dilution:**	1
Lab ID:	K2109142-001	**Raw Units:**	ng/mL

Bottle ID:	K2109142-001.09	**Tier:**	IV	**Matrix:**	Water
Prod Code:	PAH SIM	**Collect Date:**	8/5/21	**Receive Date:**	8/6/21

Analysis Lot:	735140	**Prep Lot:**	385208	**Report Group:**	K2109142
Analysis	8270D	**Prep Method:**	EPA 3511		
		Prep Date:	8/12/21		

Title:	Polycyclic Aromatic Hydrocarbons by GC/MS SIM	**Calibration ID:**	KC2100398
		Report List ID:	18998

Internal Standard Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	Area Criteria
Acenaphthene-d10	6.10		24418	200.00	OK
Chrysene-d12	9.76		27541	200.00	OK
Naphthalene-d8	4.48	-0.01	48993	200.00	OK
Perylene-d12	12.54		36761	200.00	OK
Phenanthrene-d10	7.34		42824	200.00	OK

Surrogate Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	% Rec	% Rec Criteria	Rpt?
Fluoranthene-d10	8.33		200745	782.42	78	42 - 133	Y
Fluorene-d10	6.54		140087	951.32	95	42 - 131	Y
Terphenyl-d14	8.66		119232	810.16	81	32 - 129	Y

Target Compounds

Final Conc.Units: ug/L

Parameter Name	RT	RT Dev	Response	Solution Conc	Final Conc	Q	Rpt?
2-Methylnaphthalene	5.18	-0.01	225	1.43	0.0064	J	Y
Acenaphthene	6.13		274	1.85	0.0082	J	Y
Acenaphthylene	5.98		112	0.48	0.0021	J	Y
Anthracene	0.00		0	0.00	0	U	Y
Benz(a)anthracene	9.75		223	1.09	0.0048	J	Y
Benzo(a)pyrene	0.00		0	0.00	0	U	Y
Benzo(b)fluoranthene	0.00		0	0.00	0	U	Y
Benzo(g,h,i)perylene	0.00		0	0.00	0	U	Y
Benzo(k)fluoranthene	0.00		0	0.00	0	U	Y
Chrysene	9.79	-0.01	112	0.58	0.0026	J	Y
Dibenz(a,h)anthracene	0.00		0	0.00	0	U	Y
Dibenzofuran	6.28		477	2.20	0.0098	J	Y
Fluoranthene	8.34		777	2.75	0.012	J	Y

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Printed: 8/17/21 17:34
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1st 08/17/21

2nd 08/19/21

Data File:	J:\MS14\DATA\081321\0813F015.D\	**Instrument:**	K-MS-14
Acqu Date:	8/13/21 16:46:00	**Vial:**	15
Run Type:	N/A	**Dilution:**	1
Lab ID:	K2109142-001	**Raw Units:**	ng/mL

Target Compounds

Final Conc.Units: ug/L

Parameter Name	RT	RT Dev	Response	Solution Conc	Final Conc	Q	Rpt?
Fluorene	6.56	-0.01	400	2.33	0.010	J	Y
Indeno(1,2,3-cd)pyrene	0.00		0	0.00	0	U	Y
Naphthalene	4.51		796	3.25	0.014	J	Y
Phenanthrene	7.36		1312	5.36	0.024		Y
Pyrene	8.52		1712	8.00	0.036		Y

Prep Amount:	450 mL	**Dilution:**	1
Prep Final Amount:	2.00 mL	**Basis Factor:**	100.00

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Printed: 8/17/21 17:34

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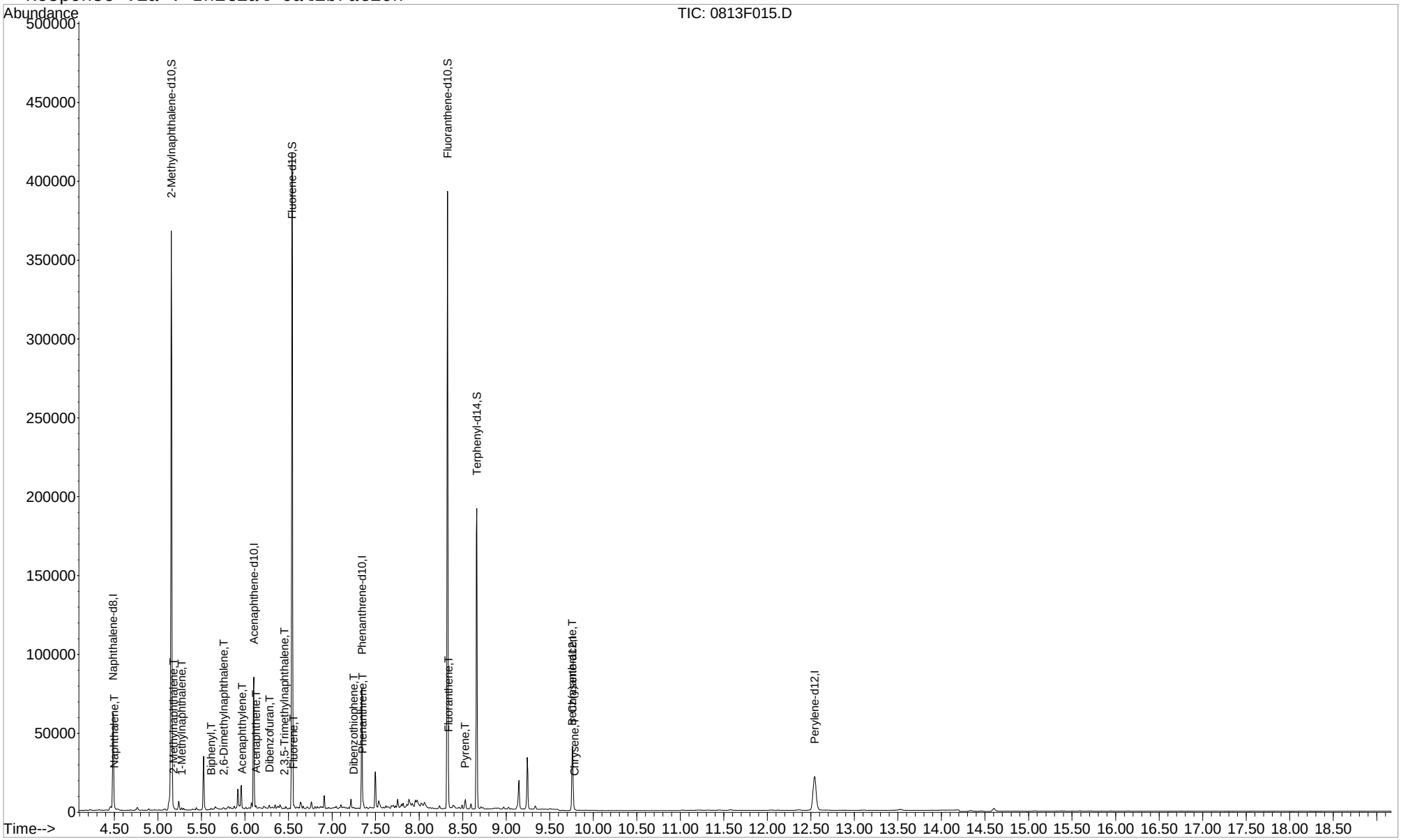
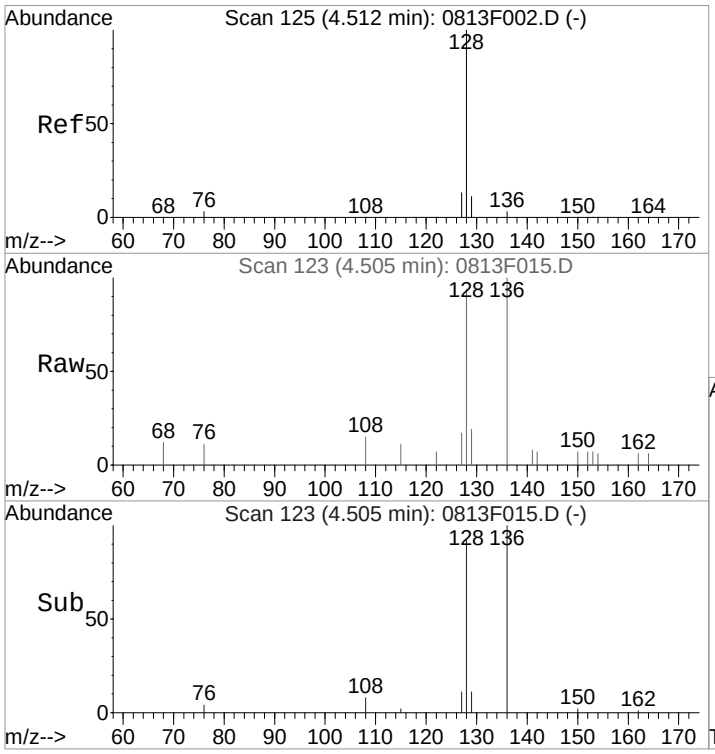
1st 08/17/21
2nd 08/19/21

Data File : J:\MS14\DATA\081321\0813F015.D Vial: 15
Acq On : 13 Aug 2021 4:46 pm Operator: E.Bruno
Sample : K2109142-001 Inst : MS14
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 17 17:03 2021 Quant Results File: 072621ALK.RES

Method : J:\MS14\METHODS\SIM\072621ALK.M (RTE Integrator)
Title : PAHS and ALKYLATED HOMOLOGS
Last Update : Mon Jul 26 23:01:28 2021
Response via : Initial Calibration



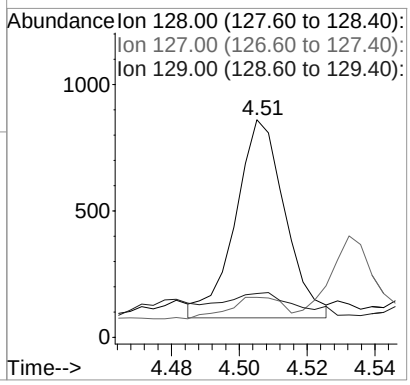
1st 08/17/21
2nd 08/19/21

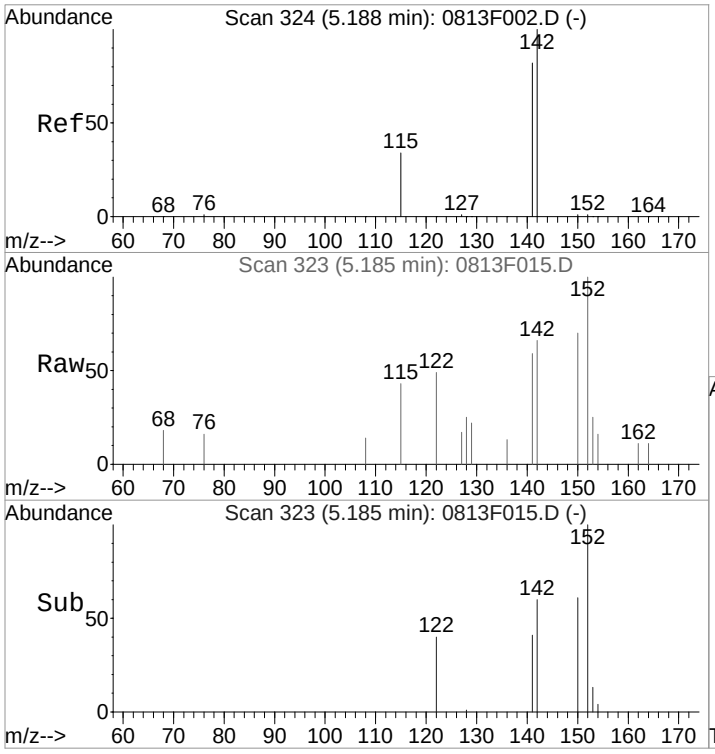


#2
Naphthalene
Concen: 3.25 ng/ml m
RT: 4.51 min Scan# 123
Delta R.T. -0.05 min
Lab File: 0813F015.D
Acq: 13 Aug 2021 4:46 pm

Tgt Ion:128 Resp: 796

Ion	Ratio	Lower	Upper
128	100		
127	18.4	0.0	42.0
129	20.2	0.0	40.9

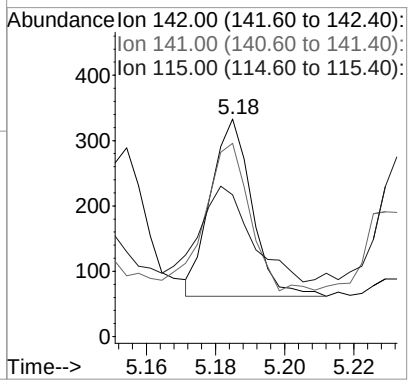




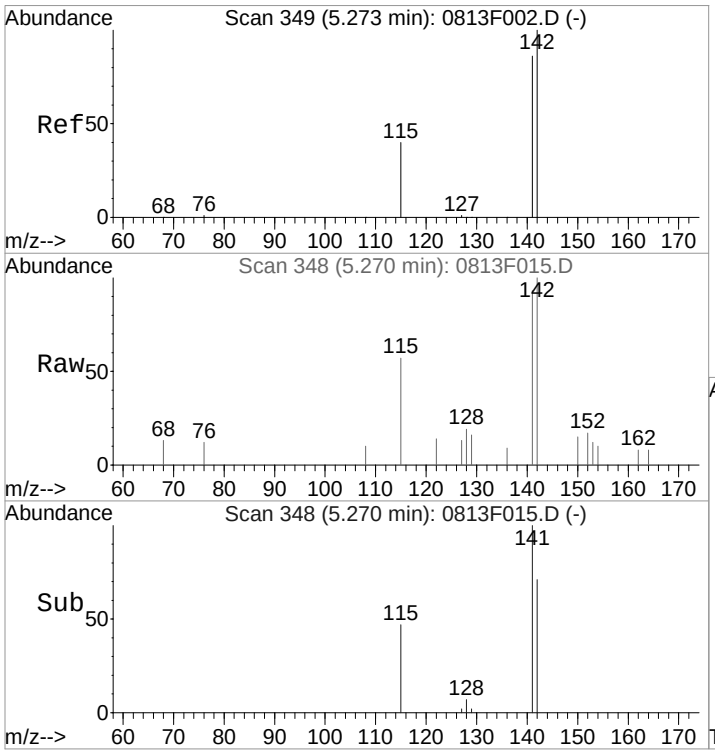
#4
2-Methylnaphthalene
Concen: 1.43 ng/ml
RT: 5.18 min Scan# 323
Delta R.T. -0.03 min
Lab File: 0813F015.D
Acq: 13 Aug 2021 4:46 pm

Tgt Ion:142 Resp: 225

Ion	Ratio	Lower	Upper
142	100		
141	80.8	49.2	109.2
115	44.3	0.0	58.9



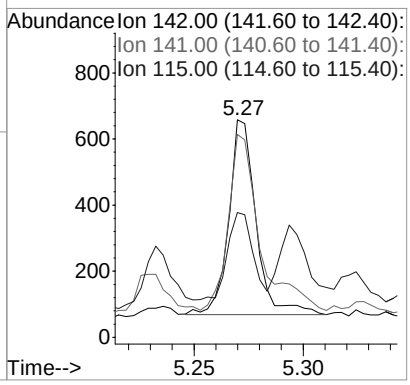
1st 08/17/21
2nd 08/19/21

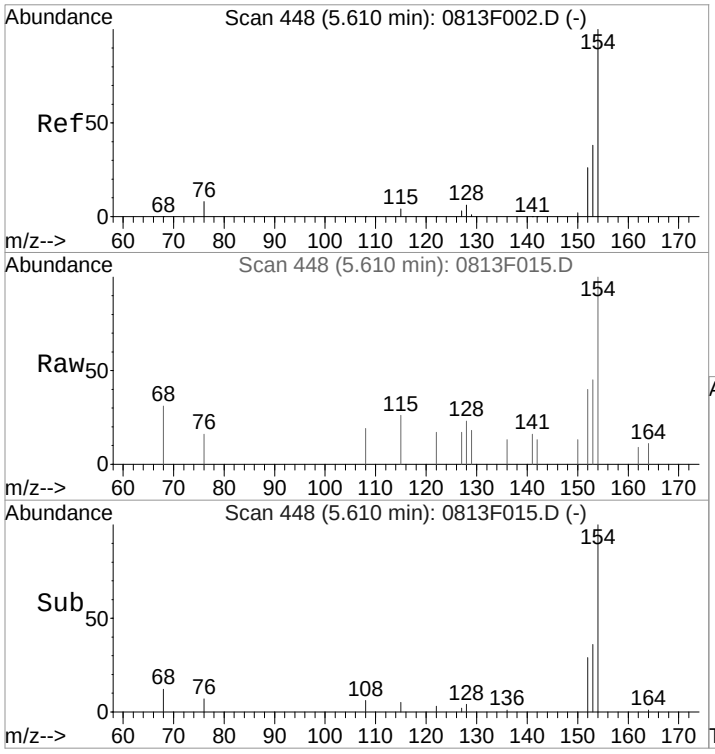


#5
1-Methylnaphthalene
Concen: 3.49 ng/ml
RT: 5.27 min Scan# 348
Delta R.T. -0.03 min
Lab File: 0813F015.D
Acq: 13 Aug 2021 4:46 pm

Tgt Ion:142 Resp: 509

Ion	Ratio	Lower	Upper
142	100		
141	90.5	52.7	112.7
115	43.5	2.4	62.4

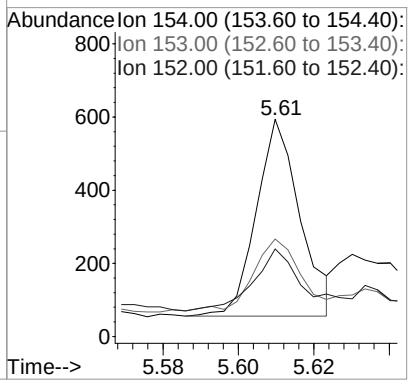




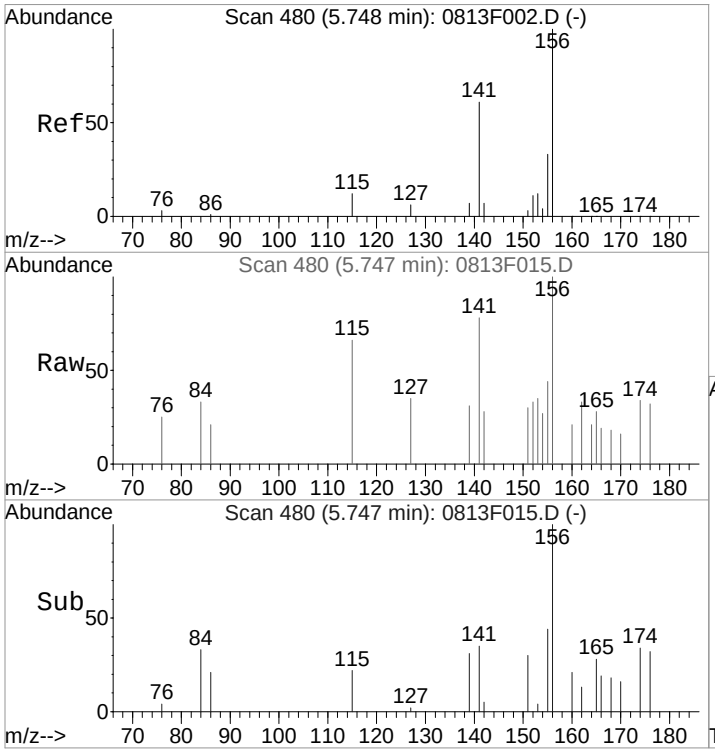
#6
Biphenyl
Concen: 1.82 ng/ml
RT: 5.61 min Scan# 448
Delta R.T. -0.03 min
Lab File: 0813F015.D
Acq: 13 Aug 2021 4:46 pm

Tgt Ion:154 Resp: 434

Ion	Ratio	Lower	Upper
154	100		
153	36.4	7.8	67.8
152	31.6	0.0	56.8



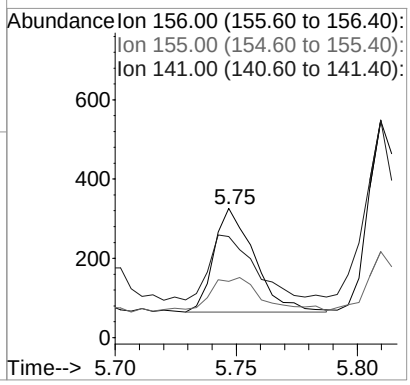
1st 08/17/21
2nd 08/19/21

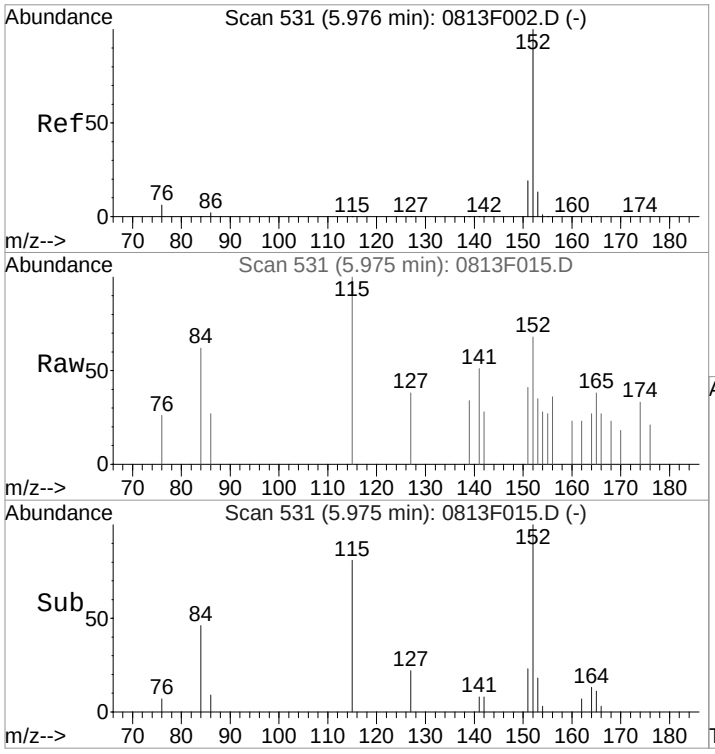


#7
2,6-Dimethylnaphthalene
Concen: 2.19 ng/ml
RT: 5.75 min Scan# 480
Delta R.T. -0.03 min
Lab File: 0813F015.D
Acq: 13 Aug 2021 4:46 pm

Tgt Ion:156 Resp: 309

Ion	Ratio	Lower	Upper
156	100		
155	28.2	1.6	61.6
141	61.1	31.3	91.3

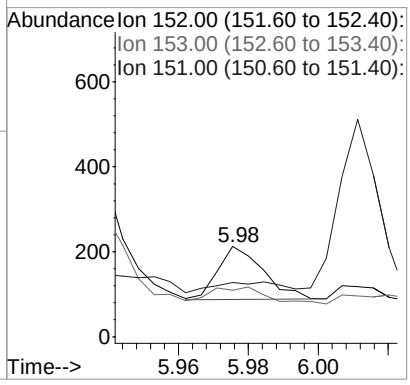




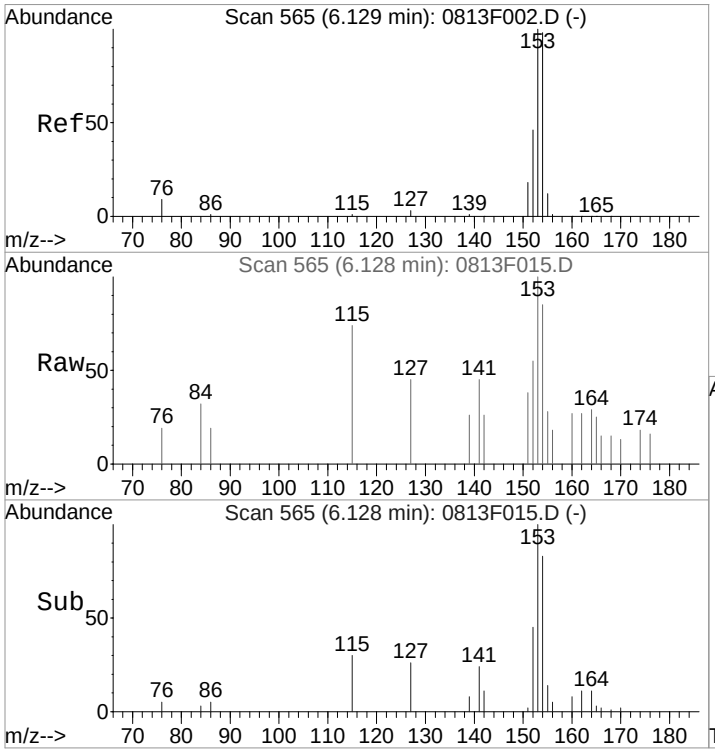
#13
Acenaphthylene
Concen: 0.48 ng/ml
RT: 5.98 min Scan# 531
Delta R.T. -0.03 min
Lab File: 0813F015.D
Acq: 13 Aug 2021 4:46 pm

Tgt Ion:152 Resp: 112

Ion	Ratio	Lower	Upper
152	100		
153	26.6	0.0	42.9
151	19.4	0.0	47.7



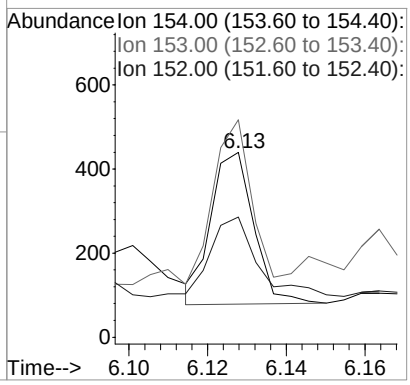
1st 08/17/21
2nd 08/19/21

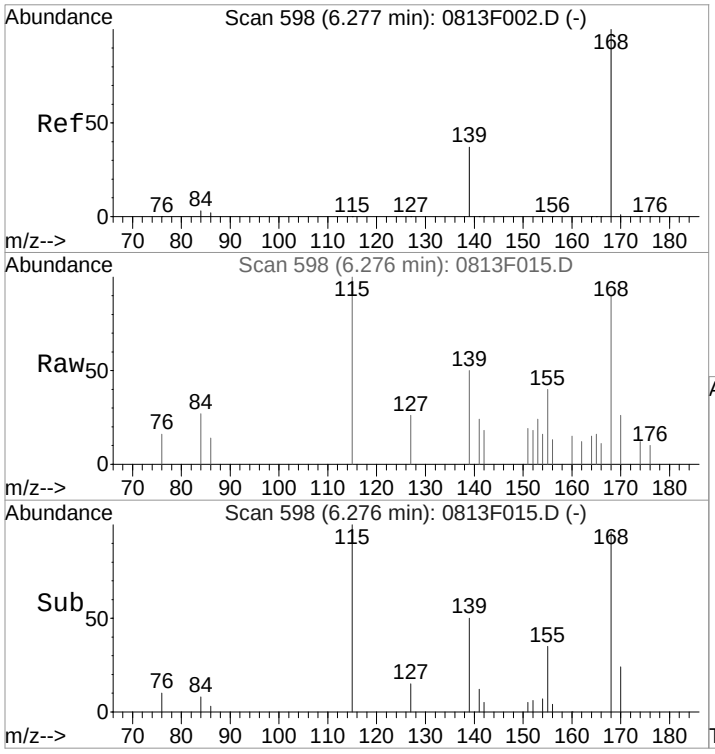


#14
Acenaphthene
Concen: 1.85 ng/ml
RT: 6.13 min Scan# 565
Delta R.T. -0.03 min
Lab File: 0813F015.D
Acq: 13 Aug 2021 4:46 pm

Tgt Ion:154 Resp: 274

Ion	Ratio	Lower	Upper
154	100		
153	108.9	66.6	126.6
152	51.5	14.1	74.1

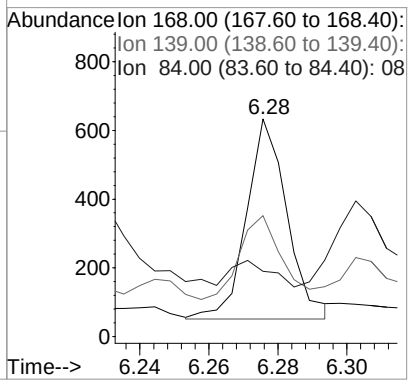




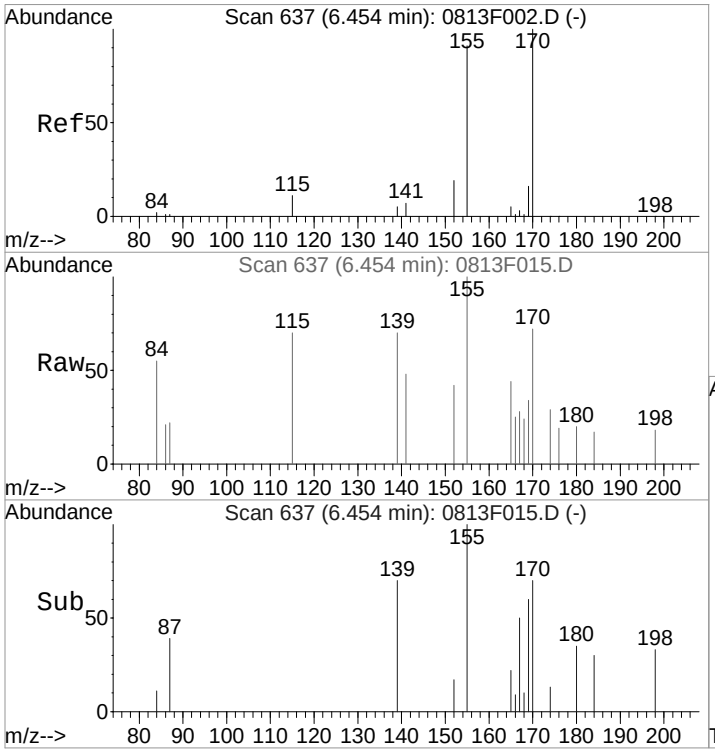
#15
Dibenzofuran
Concen: 2.20 ng/ml m
RT: 6.28 min Scan# 598
Delta R.T. -0.03 min
Lab File: 0813F015.D
Acq: 13 Aug 2021 4:46 pm

Tgt Ion:168 Resp: 477

Ion	Ratio	Lower	Upper
168	100		
139	55.6	0.0	54.6#
84	30.0	0.0	32.5



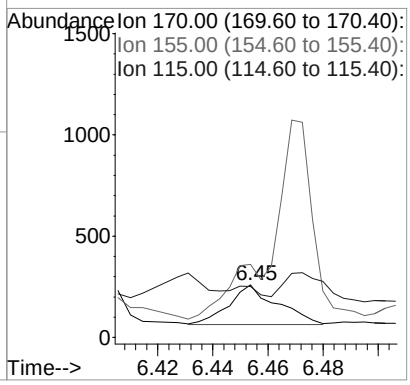
1st 08/17/21
2nd 08/19/21

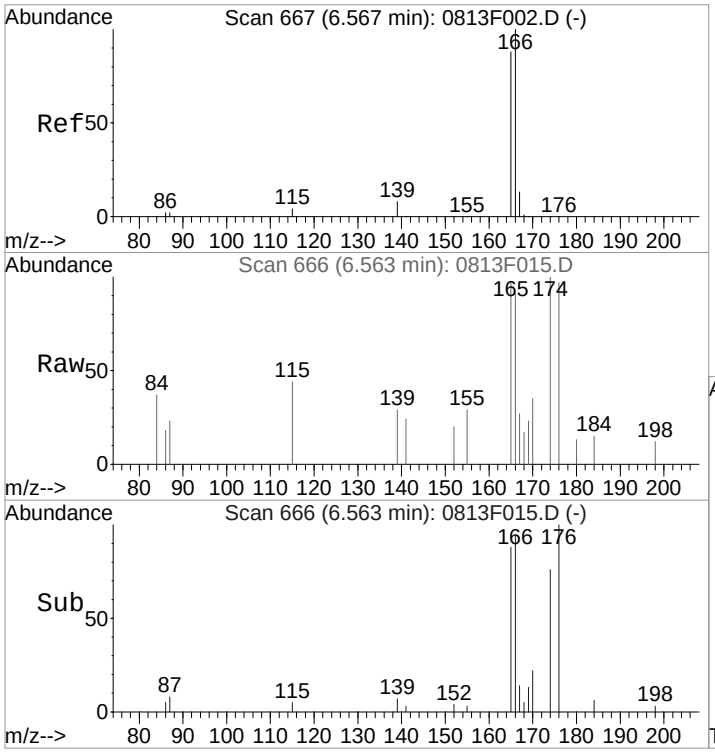


#16
2,3,5-Trimethylnaphthalene
Concen: 1.71 ng/ml m
RT: 6.45 min Scan# 637
Delta R.T. -0.03 min
Lab File: 0813F015.D
Acq: 13 Aug 2021 4:46 pm

Tgt Ion:170 Resp: 238

Ion	Ratio	Lower	Upper
170	100		
155	138.8	47.5	107.5#
115	96.9	0.0	38.1#

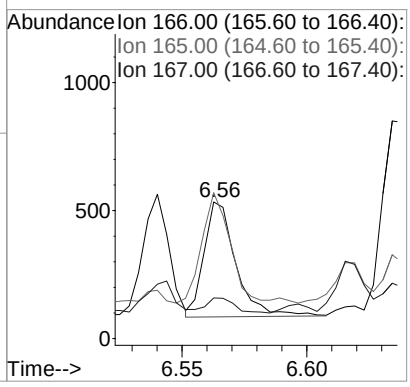


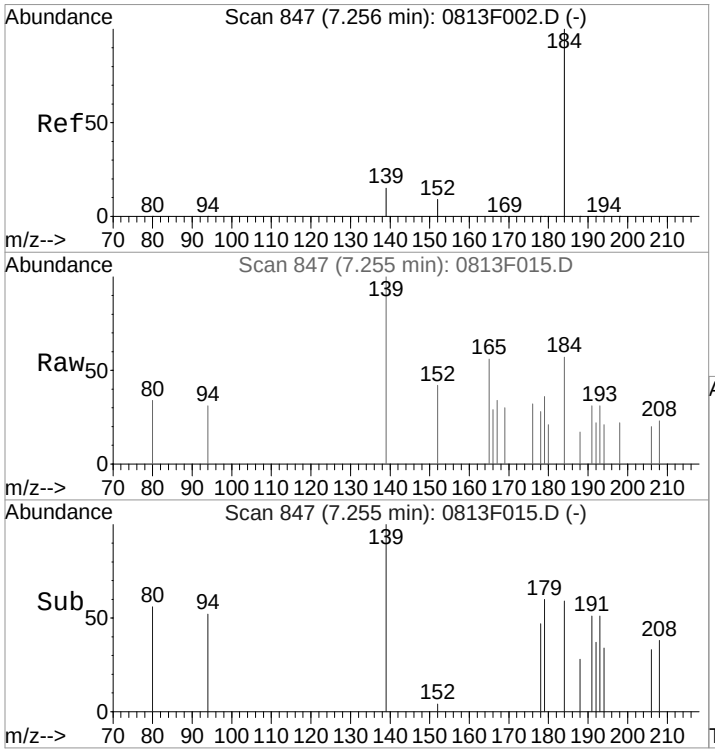


#18
Fluorene
Concen: 2.33 ng/ml
RT: 6.56 min Scan# 666
Delta R.T. -0.03 min
Lab File: 0813F015.D
Acq: 13 Aug 2021 4:46 pm

Tgt Ion:166 Resp: 400

Ion	Ratio	Lower	Upper
166	100		
165	93.2	56.6	116.6
167	10.2	0.0	43.3

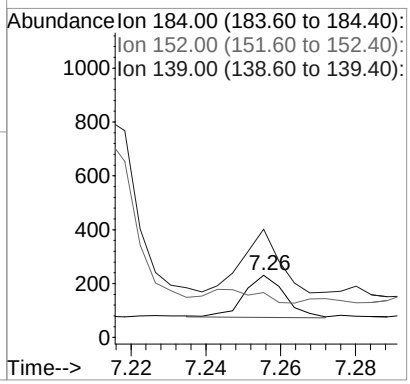


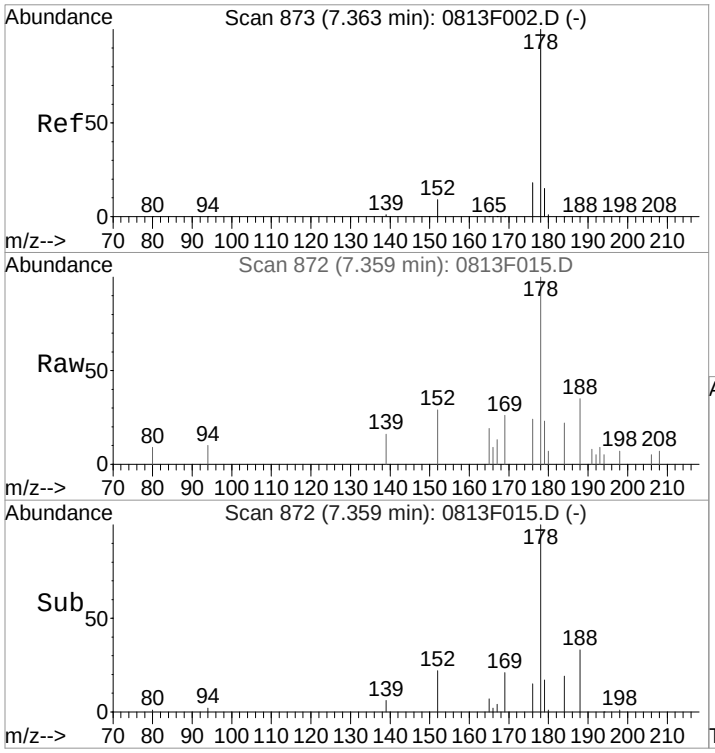


#23
Dibenzothiophene
Concen: 0.51 ng/ml m
RT: 7.26 min Scan# 847
Delta R.T. -0.02 min
Lab File: 0813F015.D
Acq: 13 Aug 2021 4:46 pm

Tgt Ion:184 Resp: 117

Ion	Ratio	Lower	Upper
184	100		
152	72.3	0.0	36.6#
139	174.0	0.0	41.2#

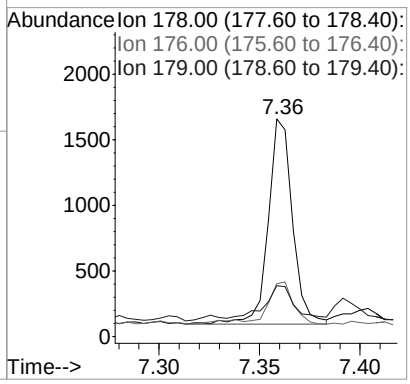




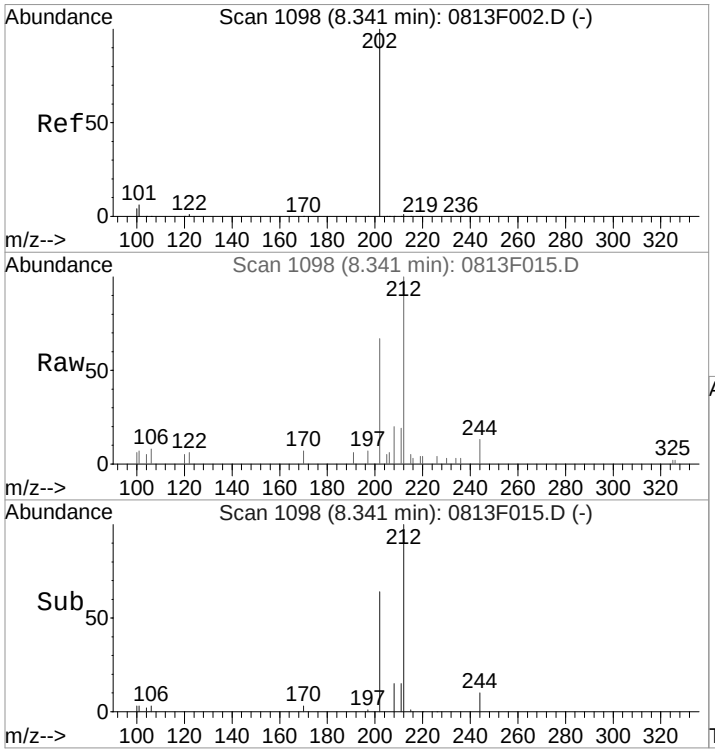
#24
Phenanthrene
Concen: 5.36 ng/ml
RT: 7.36 min Scan# 872
Delta R.T. -0.02 min
Lab File: 0813F015.D
Acq: 13 Aug 2021 4:46 pm

Tgt Ion:178 Resp: 1312

Ion	Ratio	Lower	Upper
178	100		
176	19.8	0.0	47.3
179	17.2	0.0	45.2



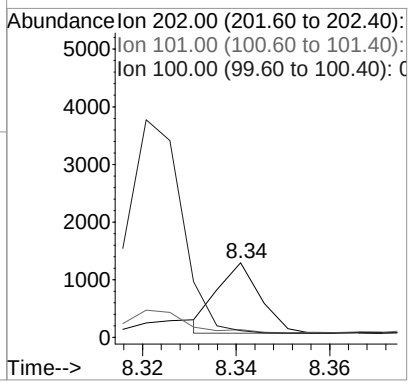
1st 08/17/21
2nd 08/19/21

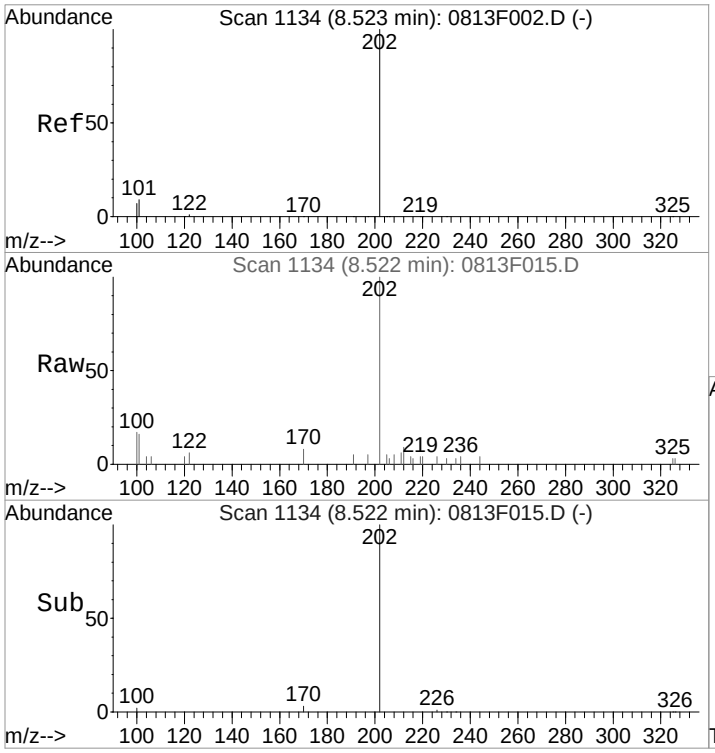


#32
Fluoranthene
Concen: 2.75 ng/ml m
RT: 8.34 min Scan# 1098
Delta R.T. -0.02 min
Lab File: 0813F015.D
Acq: 13 Aug 2021 4:46 pm

Tgt Ion:202 Resp: 777

Ion	Ratio	Lower	Upper
202	100		
101	10.2	0.0	38.4
100	9.1	0.0	35.8

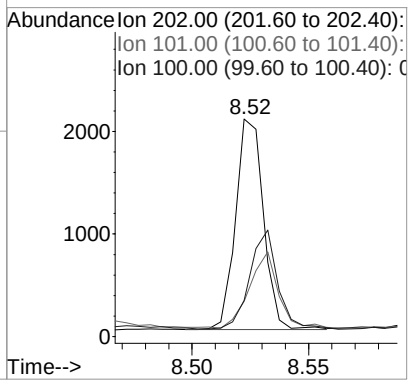


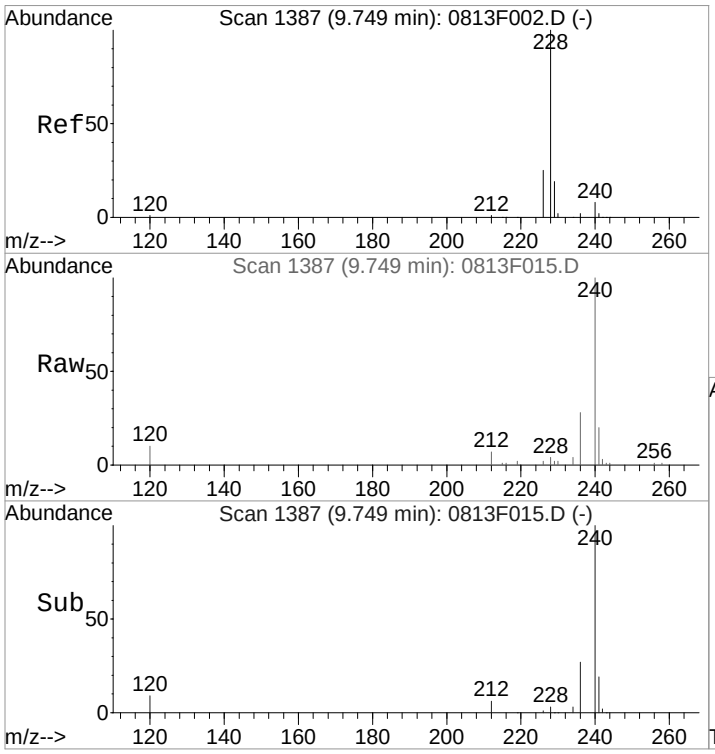


#35
Pyrene
Concen: 8.00 ng/ml
RT: 8.52 min Scan# 1134
Delta R.T. -0.03 min
Lab File: 0813F015.D
Acq: 13 Aug 2021 4:46 pm

Tgt Ion:202 Resp: 1712

Ion	Ratio	Lower	Upper
202	100		
101	12.4	0.0	38.0
100	13.2	0.0	35.6

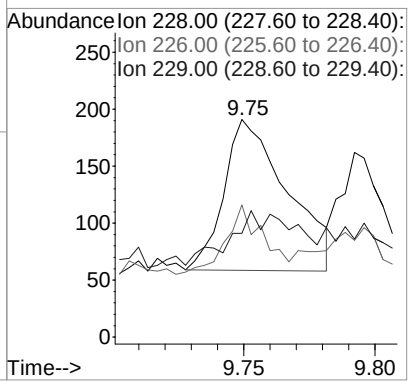


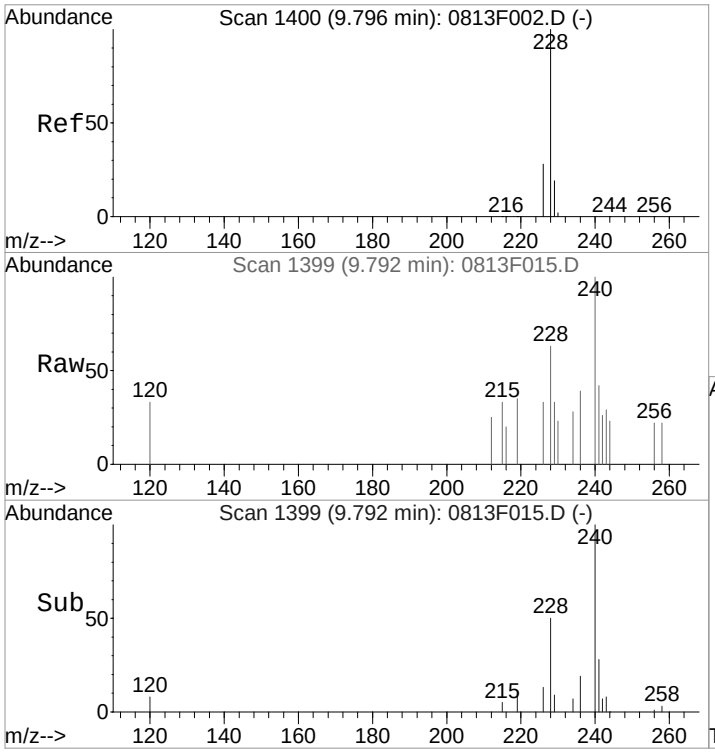


#38
Benz(a)anthracene
Concen: 1.09 ng/ml
RT: 9.75 min Scan# 1387
Delta R.T. -0.03 min
Lab File: 0813F015.D
Acq: 13 Aug 2021 4:46 pm

Tgt Ion:228 Resp: 223

Ion	Ratio	Lower	Upper
228	100		
226	44.7	0.0	53.9
229	21.2	0.0	49.5

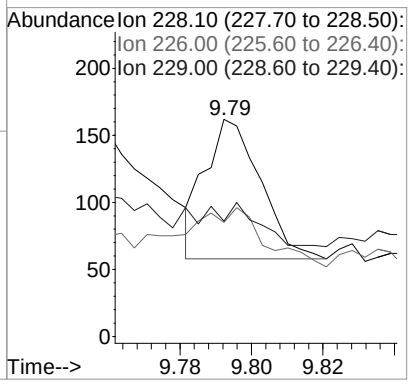




#39
Chrysene
Concen: 0.58 ng/ml
RT: 9.79 min Scan# 1399
Delta R.T. -0.04 min
Lab File: 0813F015.D
Acq: 13 Aug 2021 4:46 pm

Tgt Ion:228 Resp: 112

Ion	Ratio	Lower	Upper
228	100		
226	31.7	0.0	56.7
229	18.3	0.0	49.5



Quantitation Report (QT Reviewed)

1st 08/17/21
2nd 08/19/21

Data File : J:\MS14\DATA\081321\0813F015.D Vial: 15
Acq On : 13 Aug 2021 4:46 pm Operator: E.Bruno
Sample : K2109142-001 Inst : MS14
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 17 16:42:30 2021 Quant Results File: 072621ALK.RES

Quant Method : J:\MS14\METHODS\SIM\072621ALK.M (RTE Integrator)
Title : PAHS and ALKYLATED HOMOLOGS
Last Update : Mon Jul 26 23:01:28 2021
Response via : Initial Calibration
DataAcq Meth : A_PAHAT05

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Naphthalene-d8	4.48	136	48993m	200.00	ng/ml	-0.05
12) Acenaphthene-d10	6.10	164	24418	200.00	ng/ml	-0.03
22) Phenanthrene-d10	7.34	188	42824	200.00	ng/ml	-0.02
34) Chrysene-d12	9.76	240	27541	200.00	ng/ml	-0.04
44) Perylene-d12	12.54	264	36761	200.00	ng/ml	-0.05
System Monitoring Compounds						
3) 2-Methylnaphthalene-d10	5.15	152	127185	895.47	ng/ml	-0.03
Spiked Amount 200.000			Recovery =	447.74%		
17) Fluorene-d10	6.54	176	140087	951.32	ng/ml	-0.03
Spiked Amount 200.000			Recovery =	475.66%		
33) Fluoranthene-d10	8.33	212	200745	782.42	ng/ml	-0.02
Spiked Amount 200.000			Recovery =	391.21%		
37) Terphenyl-d14	8.66	244	119232	810.16	ng/ml	-0.03
Spiked Amount 200.000			Recovery =	405.08%		
Target Compounds						Qvalue
2) Naphthalene	4.51	128	796m	3.25	ng/ml	
4) 2-Methylnaphthalene	5.18	142	225	1.43	ng/ml	91
5) 1-Methylnaphthalene	5.27	142	509	3.49	ng/ml	88
6) Biphenyl	5.61	154	434	1.82	ng/ml	95
7) 2,6-Dimethylnaphthalene	5.75	156	309	2.19	ng/ml	98
13) Acenaphthylene	5.98	152	112	0.48	ng/ml	83
14) Acenaphthene	6.13	154	274	1.85	ng/ml	88
15) Dibenzofuran	6.28	168	477m	2.20	ng/ml	
16) 2,3,5-Trimethylnaphthalene	6.45	170	238m	1.71	ng/ml	
18) Fluorene	6.56	166	400	2.33	ng/ml	93
23) Dibenzothiophene	7.26	184	117m	0.51	ng/ml	
24) Phenanthrene	7.36	178	1312	5.36	ng/ml	95
32) Fluoranthene	8.34	202	777m	2.75	ng/ml	
35) Pyrene	8.52	202	1712	8.00	ng/ml	83
38) Benz(a)anthracene	9.75	228	223	1.09	ng/ml	75
39) Chrysene	9.79	228	112	0.58	ng/ml	93

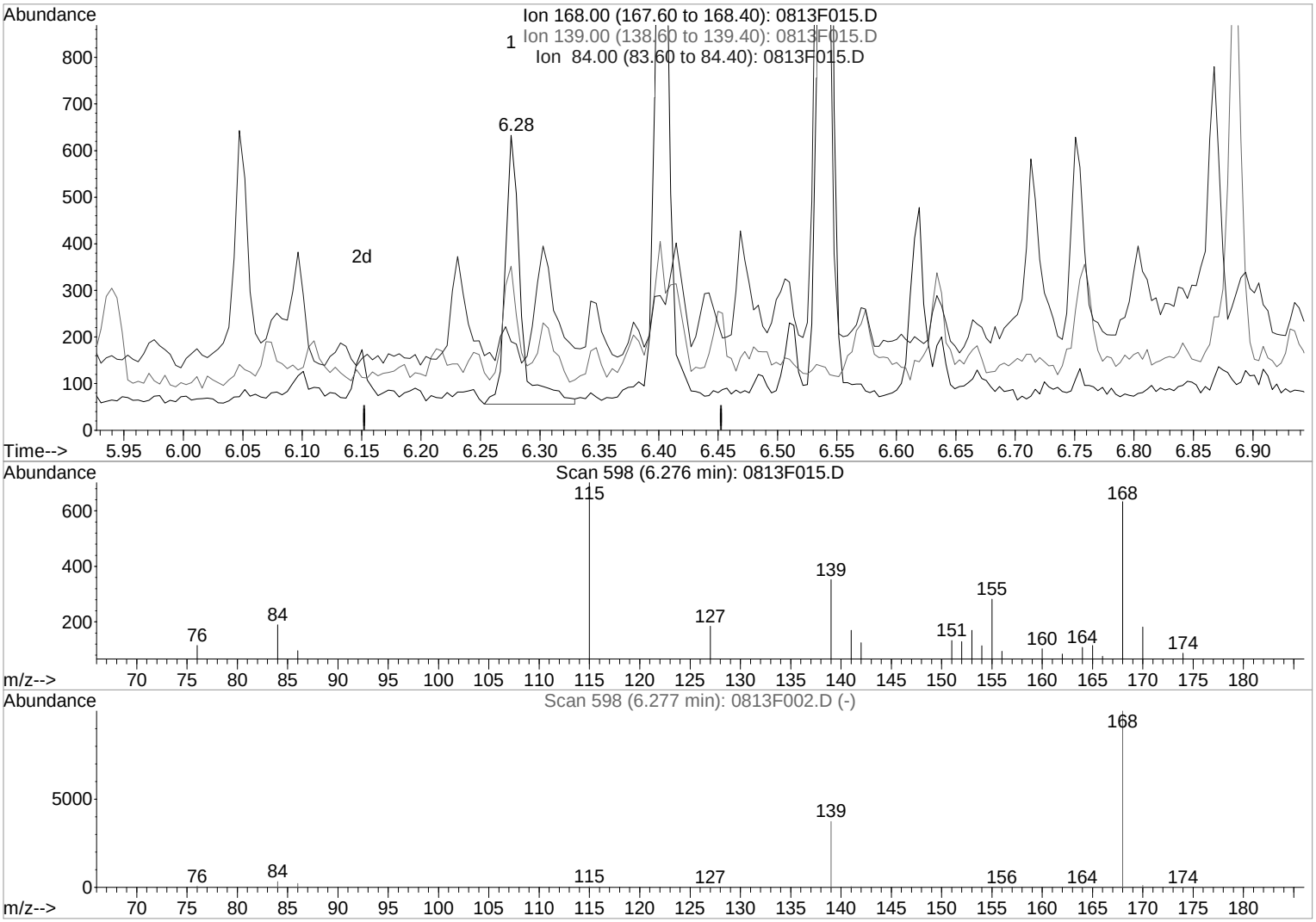
(#) = qualifier out of range (m) = manual integration

Quantitation Report (Qedit)

1st 08/17/21
2nd 08/19/21

Data File : J:\MS14\DATA\081321\0813F015.D Vial: 15
Acq On : 13 Aug 2021 4:46 pm Operator: E.Bruno
Sample : K2109142-001 Inst : MS14
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 17 17:00 2021 Quant Results File: temp.res

Method : J:\MS14\METHODS\SIM\072621ALK.M (RTE Integrator)
Title : PAHS and ALKYLATED HOMOLOGS
Last Update : Mon Jul 26 23:01:28 2021
Response via : Multiple Level Calibration



TIC: 0813F015.D

(15) Dibenzofuran (T)

6.28min 2.40ng/ml

response 521

Ion	Exp%	Act%
168.00	100	100
139.00	24.60	42.29
84.00	2.50	5.20
0.00	0.00	0.00

Manual Integration:

Before

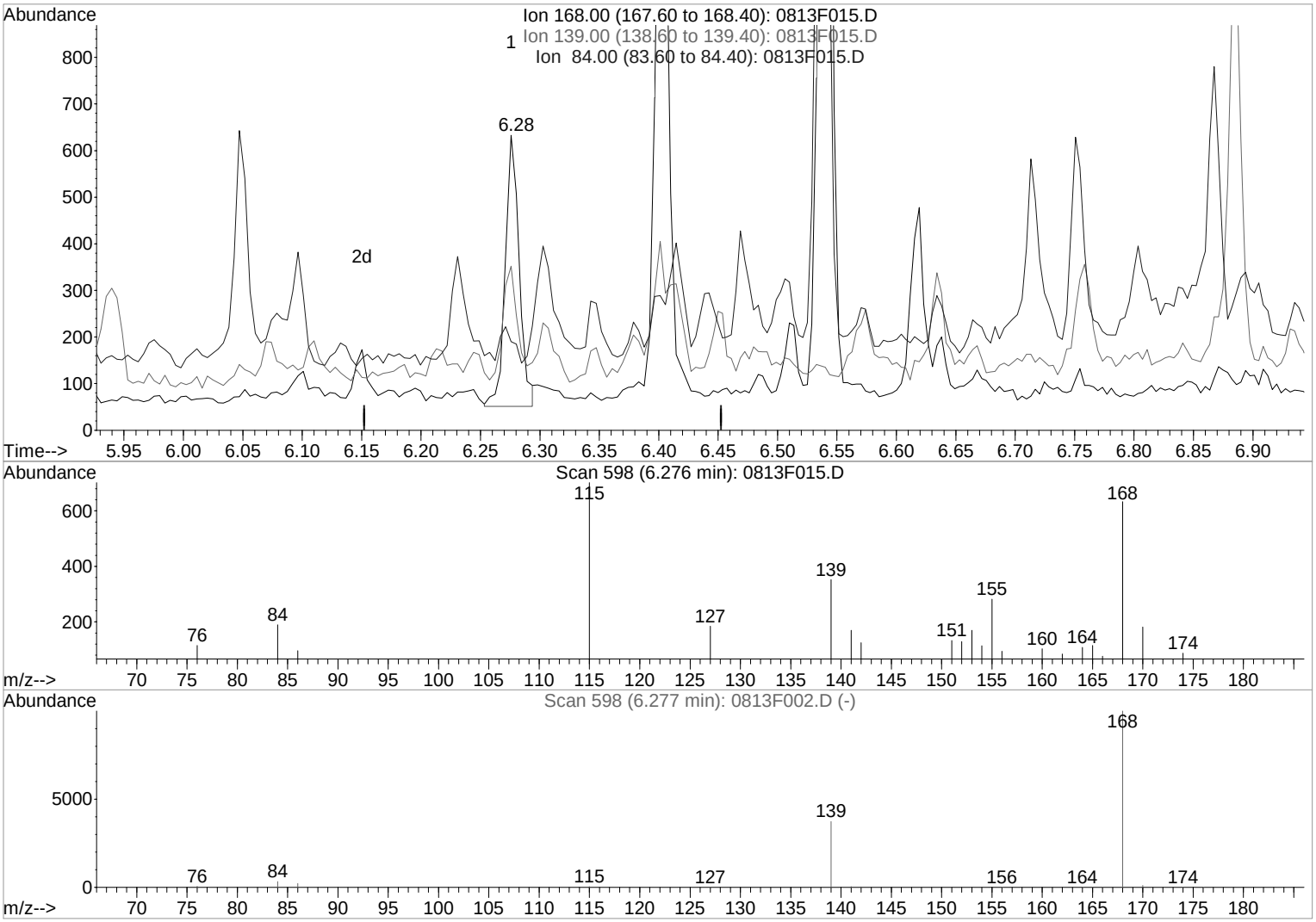
08/17/21

Quantitation Report (Qedit)

1st 08/17/21
2nd 08/19/21

Data File : J:\MS14\DATA\081321\0813F015.D Vial: 15
Acq On : 13 Aug 2021 4:46 pm Operator: E.Bruno
Sample : K2109142-001 Inst : MS14
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 17 17:01 2021 Quant Results File: temp.res

Method : J:\MS14\METHODS\SIM\072621ALK.M (RTE Integrator)
Title : PAHS and ALKYLATED HOMOLOGS
Last Update : Mon Jul 26 23:01:28 2021
Response via : Multiple Level Calibration



TIC: 0813F015.D

(15) Dibenzofuran (T)

6.28min 2.20ng/ml m

response 477

Ion	Exp%	Act%
168.00	100	100
139.00	24.60	55.61#
84.00	2.50	30.02
0.00	0.00	0.00

Manual Integration:

After

IC-Overintegrated

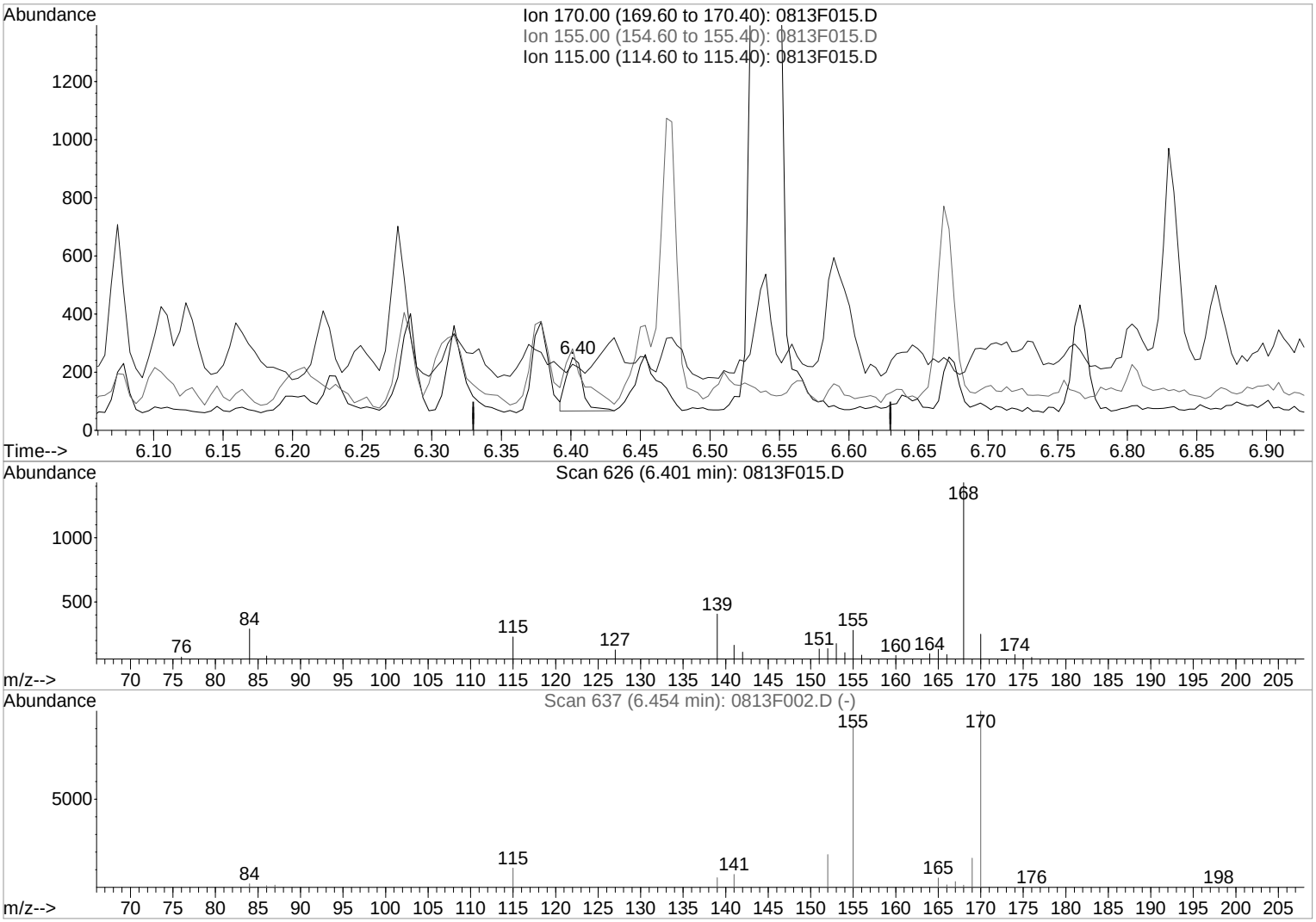
08/17/21

Quantitation Report (Qedit)

1st 08/17/21
2nd 08/19/21

Data File : J:\MS14\DATA\081321\0813F015.D Vial: 15
Acq On : 13 Aug 2021 4:46 pm Operator: E.Bruno
Sample : K2109142-001 Inst : MS14
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 17 17:01 2021 Quant Results File: temp.res

Method : J:\MS14\METHODS\SIM\072621ALK.M (RTE Integrator)
Title : PAHS and ALKYLATED HOMOLOGS
Last Update : Mon Jul 26 23:01:28 2021
Response via : Multiple Level Calibration



TIC: 0813F015.D

(16) 2,3,5-Trimethylnaphthalene (T)

6.40min 1.27ng/ml

response 176

Ion	Exp%	Act%
170.00	100	100
155.00	77.50	103.83
115.00	8.10	5.46
0.00	0.00	0.00

Manual Integration:

Before

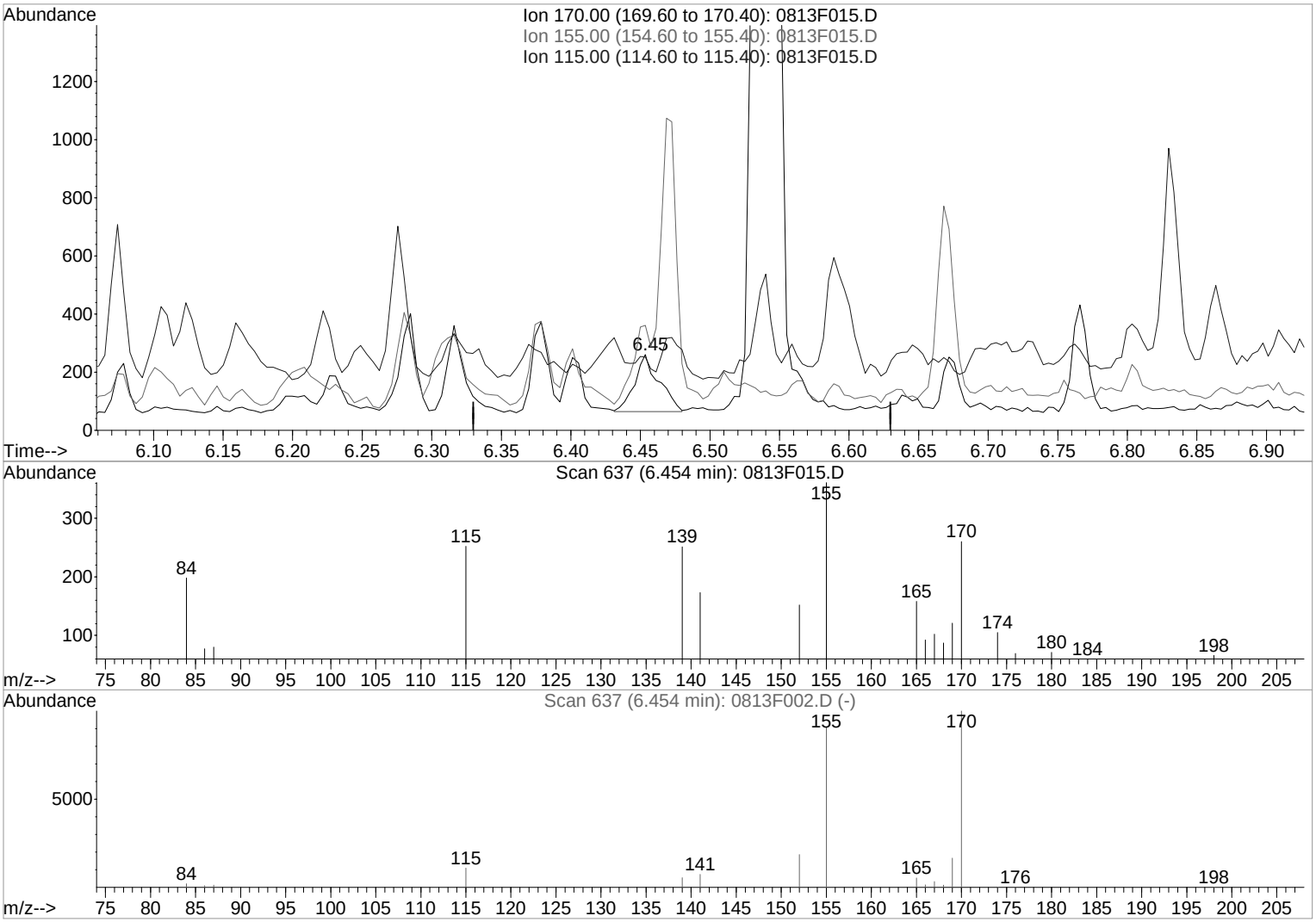
08/17/21

Quantitation Report (Qedit)

1st 08/17/21
2nd 08/19/21

Data File : J:\MS14\DATA\081321\0813F015.D Vial: 15
Acq On : 13 Aug 2021 4:46 pm Operator: E.Bruno
Sample : K2109142-001 Inst : MS14
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 17 17:02 2021 Quant Results File: temp.res

Method : J:\MS14\METHODS\SIM\072621ALK.M (RTE Integrator)
Title : PAHS and ALKYLATED HOMOLOGS
Last Update : Mon Jul 26 23:01:28 2021
Response via : Multiple Level Calibration



TIC: 0813F015.D

(16) 2,3,5-Trimethylnaphthalene (T)

6.45min 1.71ng/ml m

response 238

Ion	Exp%	Act%
170.00	100	100
155.00	77.50	138.85#
115.00	8.10	96.92#
0.00	0.00	0.00

Manual Integration:

After

WP

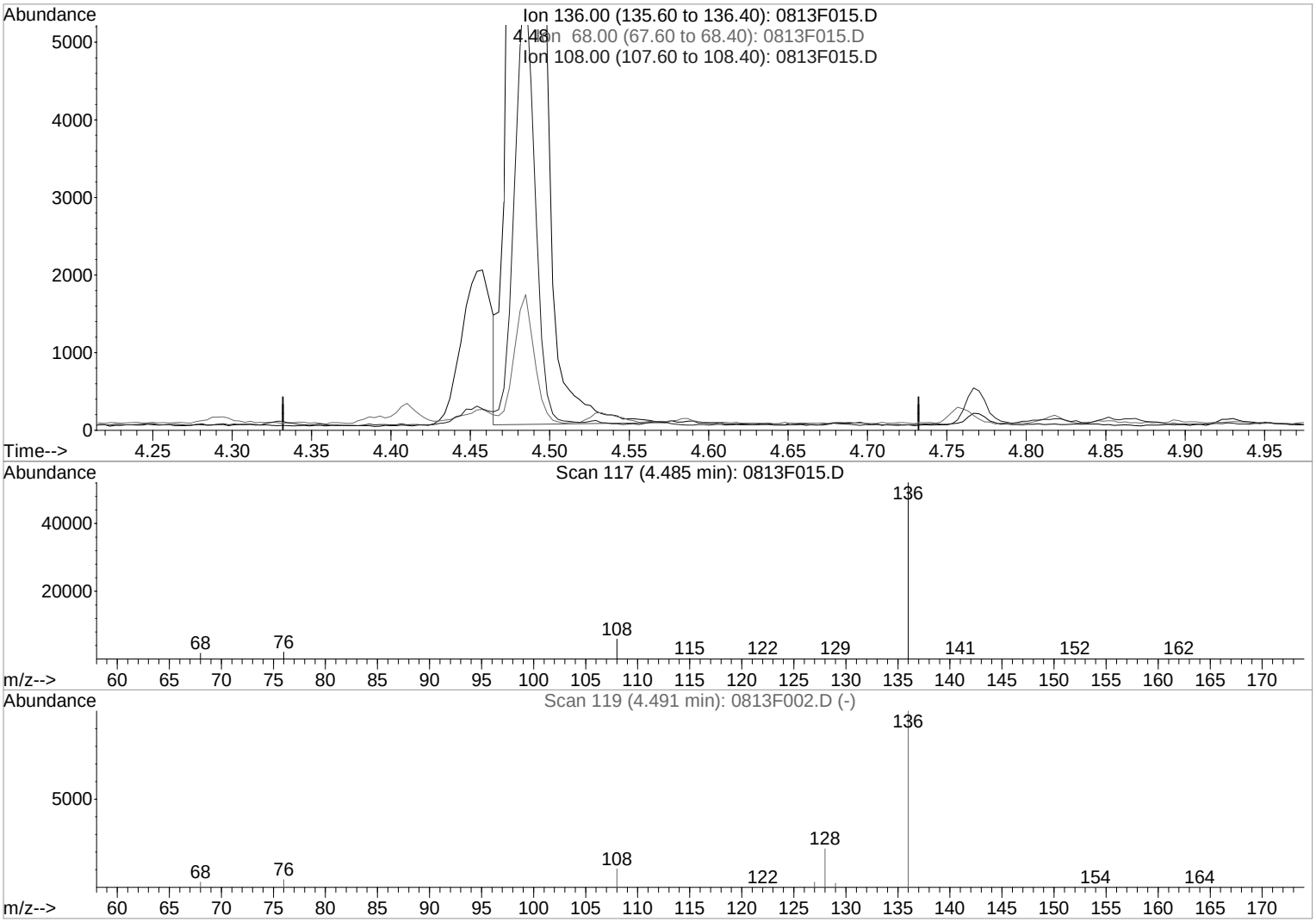
08/17/21

Quantitation Report (Qedit)

1st 08/17/21
2nd 08/19/21

Data File : J:\MS14\DATA\081321\0813F015.D Vial: 15
Acq On : 13 Aug 2021 4:46 pm Operator: E.Bruno
Sample : K2109142-001 Inst : MS14
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 17 16:42 2021 Quant Results File: temp.res

Method : J:\MS14\METHODS\SIM\072621ALK.M (RTE Integrator)
Title : PAHS and ALKYLATED HOMOLOGS
Last Update : Mon Jul 26 23:01:28 2021
Response via : Multiple Level Calibration



TIC: 0813F015.D

(1) Naphthalene-d8 (I)

4.48min 200.00ng/ml

response 46262

Ion	Exp%	Act%
136.00	100	100
68.00	3.80	3.15
108.00	9.70	11.06
0.00	0.00	0.00

Manual Integration:

Before

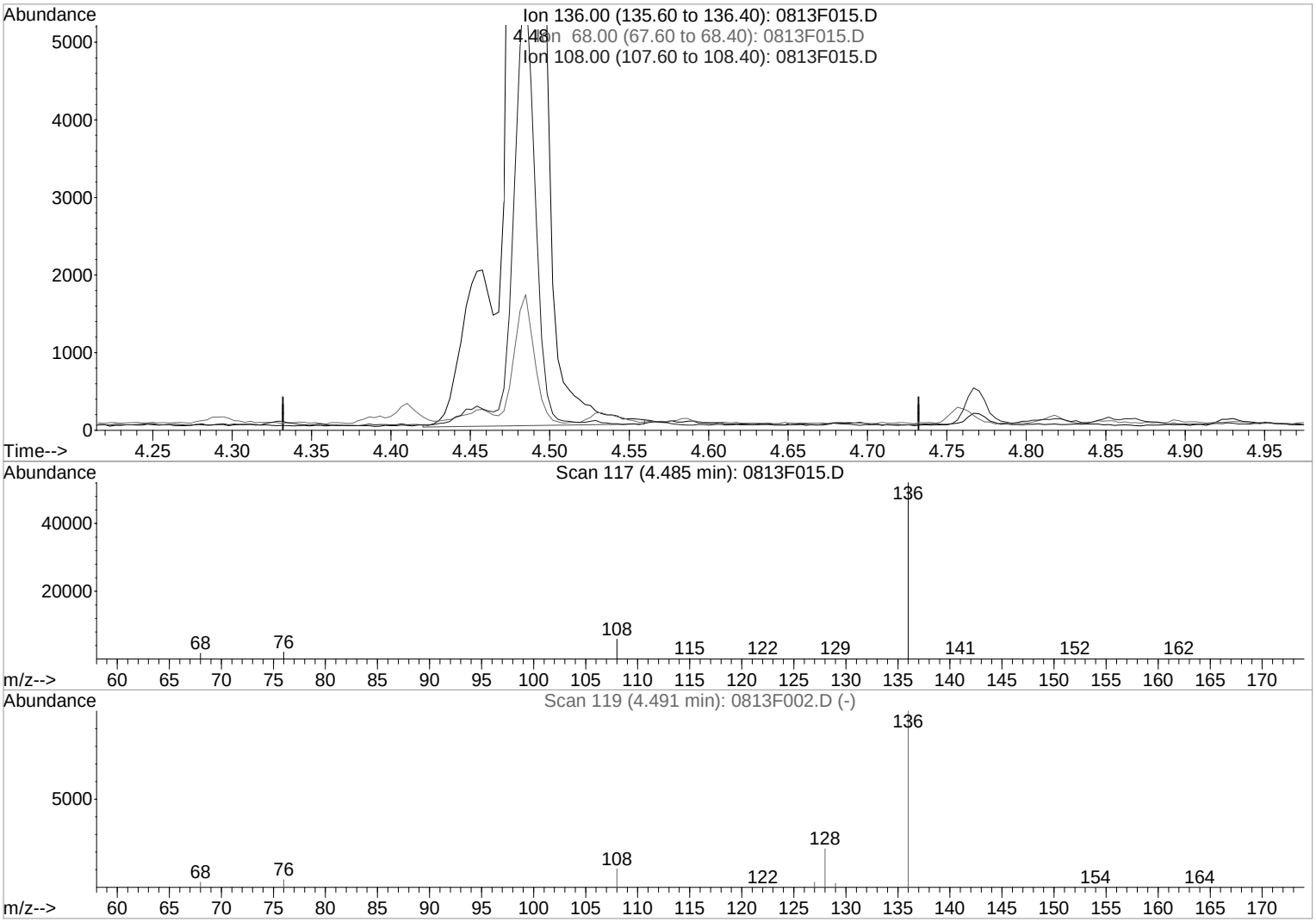
08/17/21

Quantitation Report (Qedit)

1st 08/17/21
2nd 08/19/21

Data File : J:\MS14\DATA\081321\0813F015.D Vial: 15
Acq On : 13 Aug 2021 4:46 pm Operator: E.Bruno
Sample : K2109142-001 Inst : MS14
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 17 17:00 2021 Quant Results File: temp.res

Method : J:\MS14\METHODS\SIM\072621ALK.M (RTE Integrator)
Title : PAHS and ALKYLATED HOMOLOGS
Last Update : Mon Jul 26 23:01:28 2021
Response via : Multiple Level Calibration



TIC: 0813F015.D

(1) Naphthalene-d8 (I)

4.48min 200.00ng/ml m

response 48993

Ion	Exp%	Act%
136.00	100	100
68.00	3.80	3.36
108.00	9.70	11.23
0.00	0.00	0.00

Manual Integration:

After

IC-Incomplete

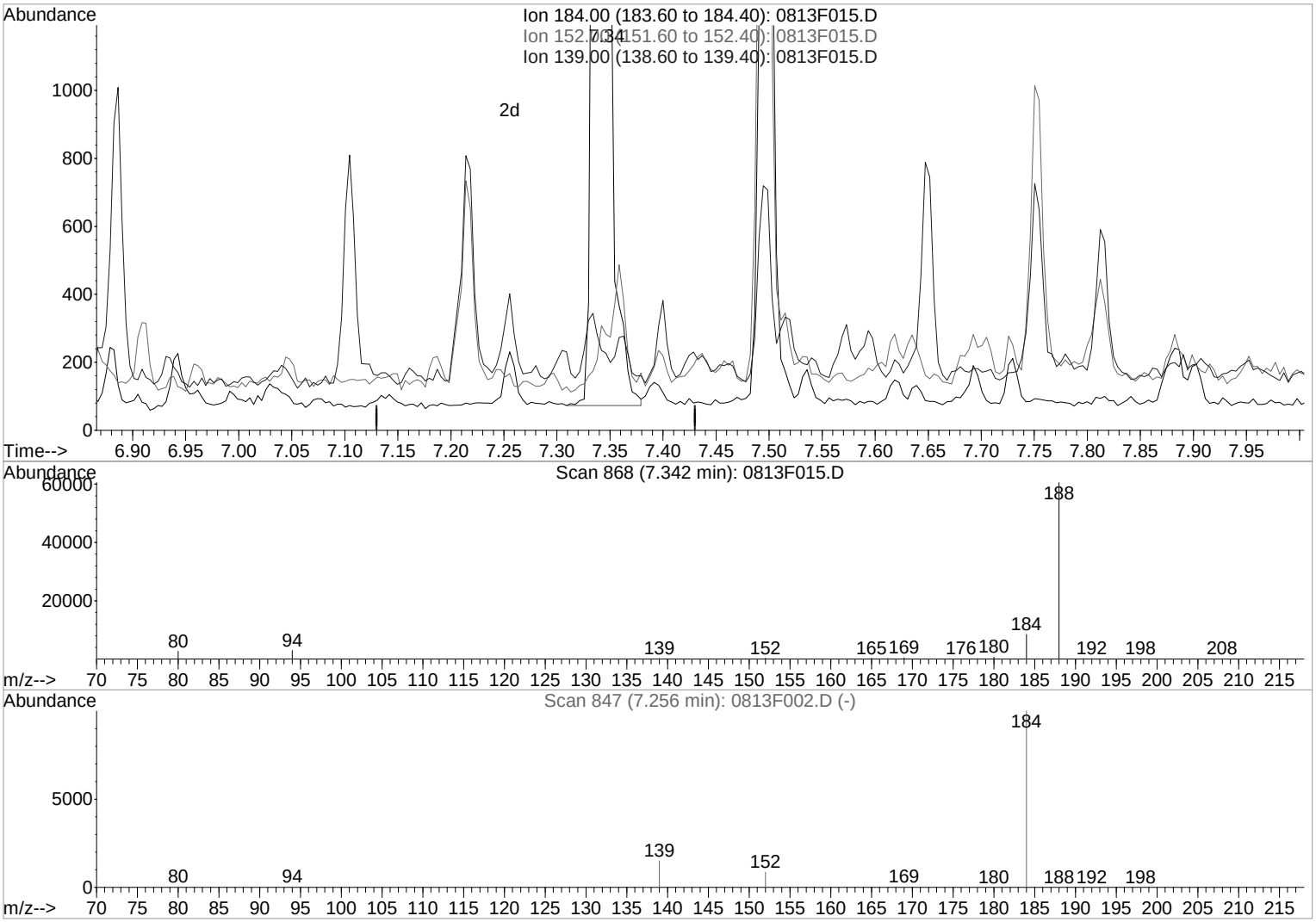
08/17/21

Quantitation Report (Qedit)

1st 08/17/21
2nd 08/19/21

Data File : J:\MS14\DATA\081321\0813F015.D Vial: 15
Acq On : 13 Aug 2021 4:46 pm Operator: E.Bruno
Sample : K2109142-001 Inst : MS14
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 17 17:02 2021 Quant Results File: temp.res

Method : J:\MS14\METHODS\SIM\072621ALK.M (RTE Integrator)
Title : PAHS and ALKYLATED HOMOLOGS
Last Update : Mon Jul 26 23:01:28 2021
Response via : Multiple Level Calibration



TIC: 0813F015.D

(23) Dibenzothiophene (T)

7.34min 27.60ng/ml

response 6287

Ion	Exp%	Act%
184.00	100	100
152.00	6.60	2.13
139.00	11.20	0.89
0.00	0.00	0.00

Manual Integration:

Before

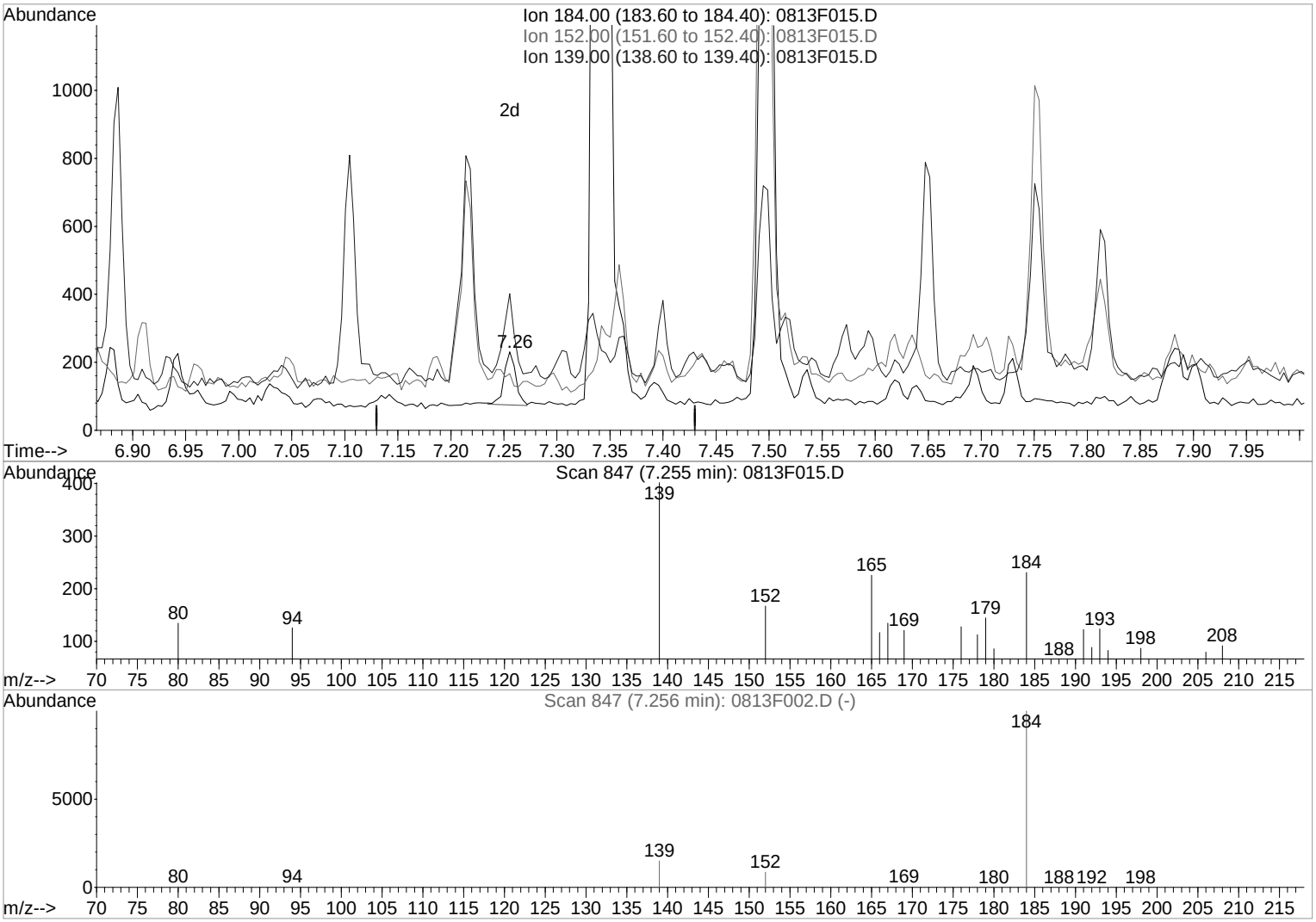
08/17/21

Quantitation Report (Qedit)

1st 08/17/21
2nd 08/19/21

Data File : J:\MS14\DATA\081321\0813F015.D Vial: 15
Acq On : 13 Aug 2021 4:46 pm Operator: E.Bruno
Sample : K2109142-001 Inst : MS14
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 17 17:02 2021 Quant Results File: temp.res

Method : J:\MS14\METHODS\SIM\072621ALK.M (RTE Integrator)
Title : PAHS and ALKYLATED HOMOLOGS
Last Update : Mon Jul 26 23:01:28 2021
Response via : Multiple Level Calibration



TIC: 0813F015.D

(23) Dibenzothiophene (T)

7.26min 0.51ng/ml m

response 117

Ion	Exp%	Act%
184.00	100	100
152.00	6.60	72.29#
139.00	11.20	174.03#
0.00	0.00	0.00

Manual Integration:

After

WP

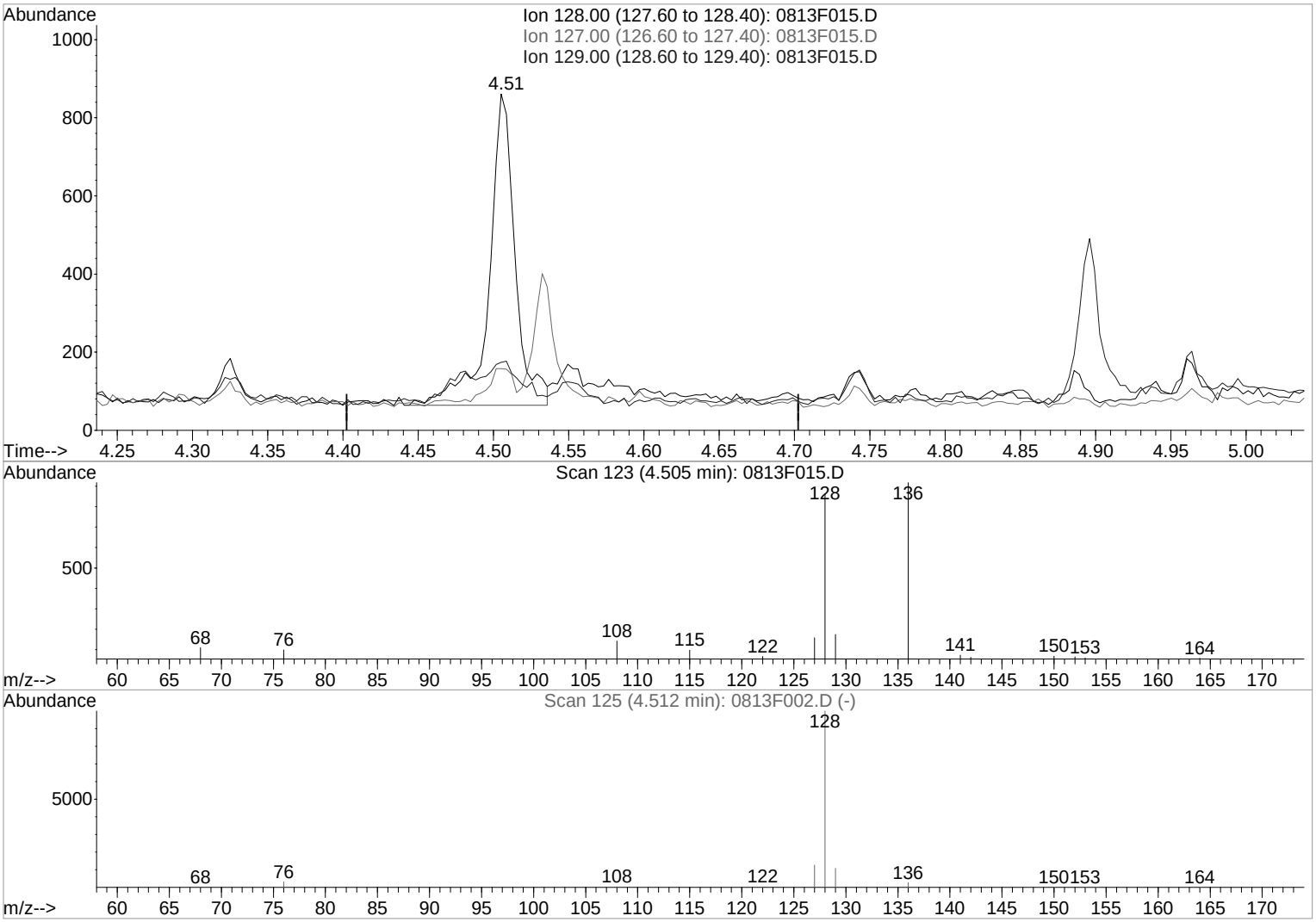
08/17/21

Quantitation Report (Qedit)

1st 08/17/21
2nd 08/19/21

Data File : J:\MS14\DATA\081321\0813F015.D Vial: 15
Acq On : 13 Aug 2021 4:46 pm Operator: E.Bruno
Sample : K2109142-001 Inst : MS14
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 17 17:00 2021 Quant Results File: temp.res

Method : J:\MS14\METHODS\SIM\072621ALK.M (RTE Integrator)
Title : PAHS and ALKYLATED HOMOLOGS
Last Update : Mon Jul 26 23:01:28 2021
Response via : Multiple Level Calibration



TIC: 0813F015.D

(2) Naphthalene (T)

4.51min 3.92ng/ml

response 960

Ion	Exp%	Act%
128.00	100	100
127.00	12.00	11.04
129.00	10.90	12.30
0.00	0.00	0.00

Manual Integration:

Before

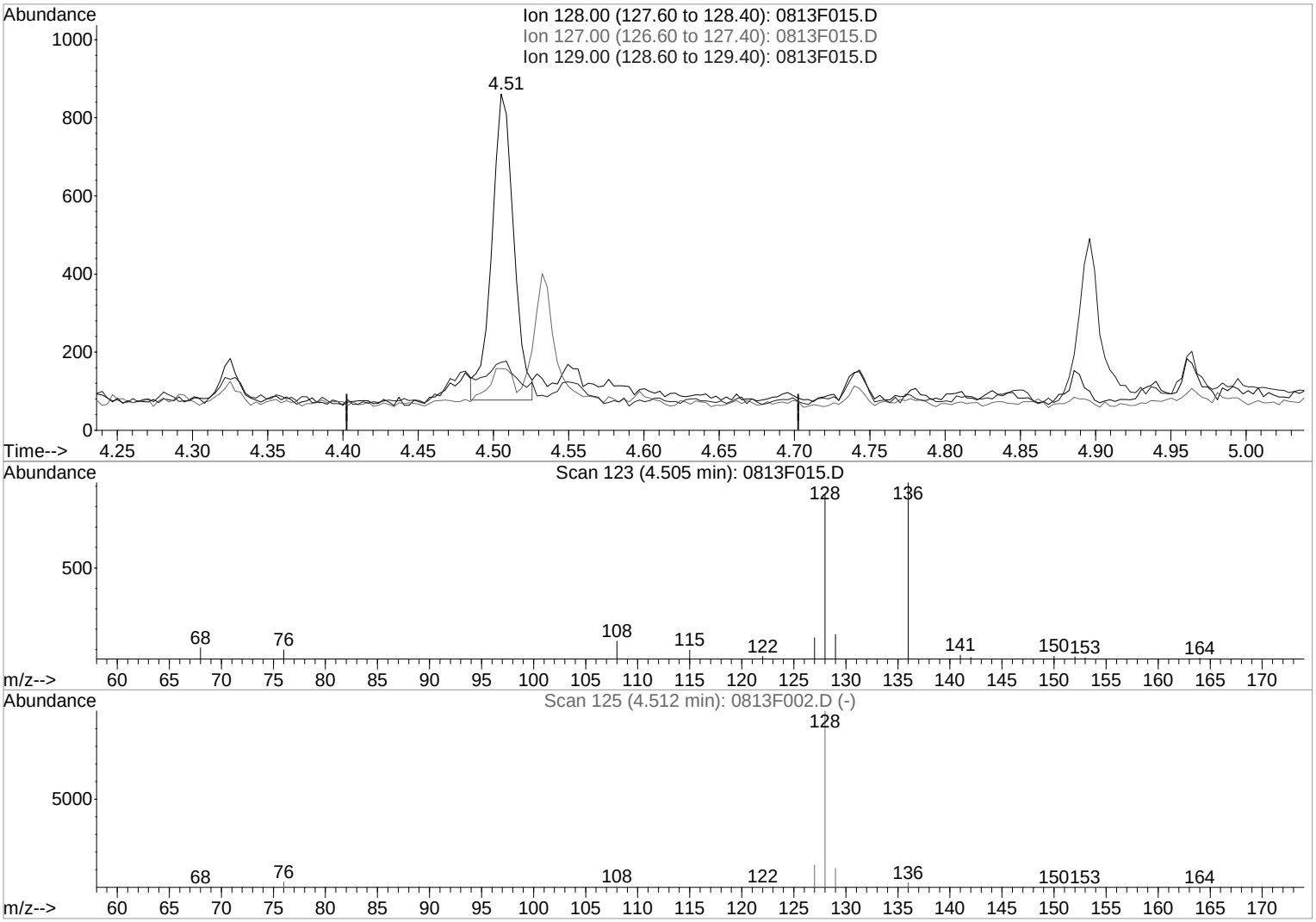
08/17/21

Quantitation Report (Qedit)

1st 08/17/21
2nd 08/19/21

Data File : J:\MS14\DATA\081321\0813F015.D Vial: 15
Acq On : 13 Aug 2021 4:46 pm Operator: E.Bruno
Sample : K2109142-001 Inst : MS14
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 17 17:00 2021 Quant Results File: temp.res

Method : J:\MS14\METHODS\SIM\072621ALK.M (RTE Integrator)
Title : PAHS and ALKYLATED HOMOLOGS
Last Update : Mon Jul 26 23:01:28 2021
Response via : Multiple Level Calibration



TIC: 0813F015.D

(2) Naphthalene (T)

4.51min 3.25ng/ml m

response 796

Ion	Exp%	Act%
128.00	100	100
127.00	12.00	18.35
129.00	10.90	20.21
0.00	0.00	0.00

Manual Integration:

After

IC-Overintegrated

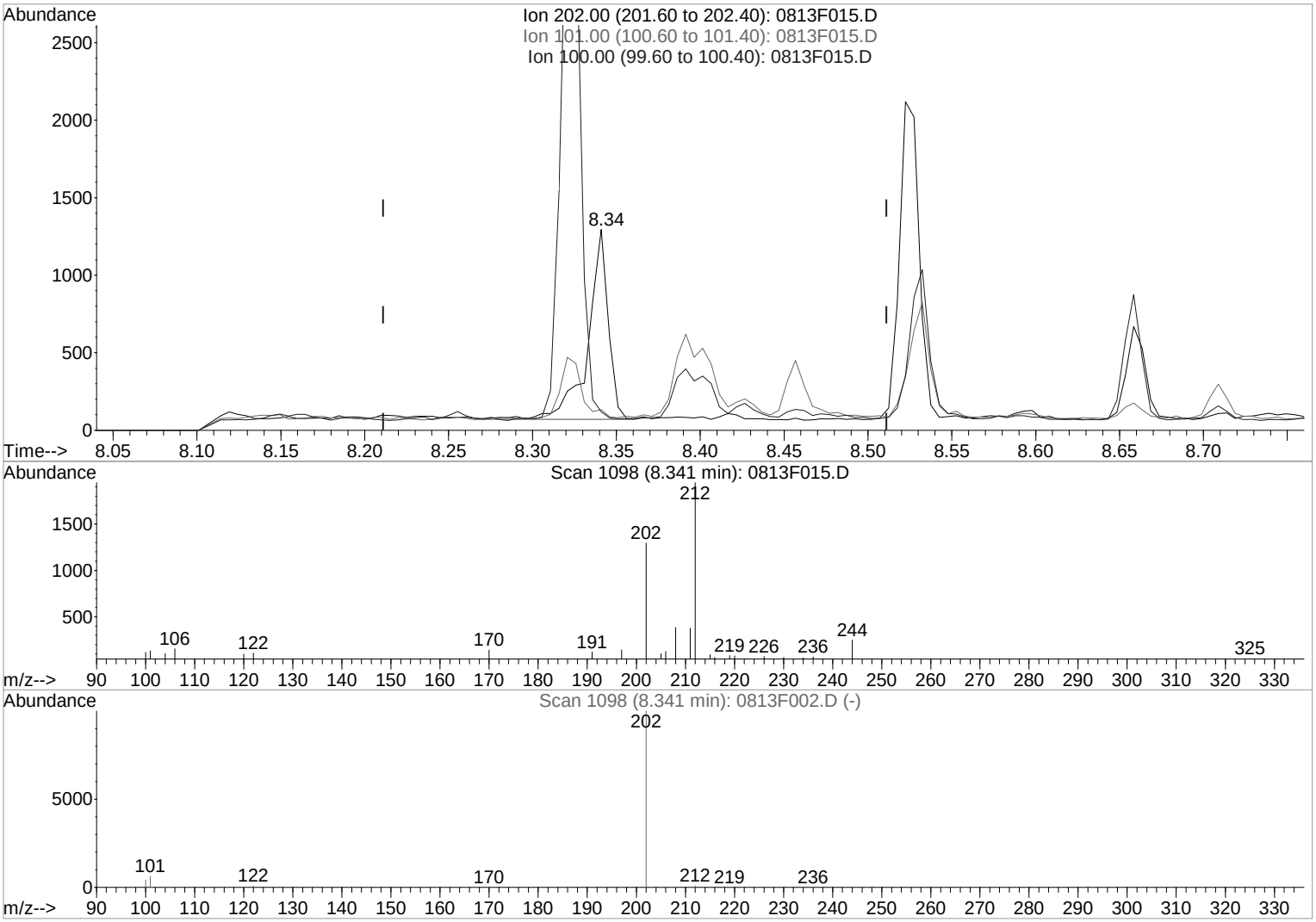
08/17/21

Quantitation Report (Qedit)

1st 08/17/21
2nd 08/19/21

Data File : J:\MS14\DATA\081321\0813F015.D Vial: 15
Acq On : 13 Aug 2021 4:46 pm Operator: E.Bruno
Sample : K2109142-001 Inst : MS14
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 17 17:02 2021 Quant Results File: temp.res

Method : J:\MS14\METHODS\SIM\072621ALK.M (RTE Integrator)
Title : PAHS and ALKYLATED HOMOLOGS
Last Update : Mon Jul 26 23:01:28 2021
Response via : Multiple Level Calibration



TIC: 0813F015.D

(32) Fluoranthene (T)

8.34min 3.67ng/ml

response 1035

Ion	Exp%	Act%
202.00	100	100
101.00	8.40	4.98
100.00	5.80	3.76
0.00	0.00	0.00

Manual Integration:

Before

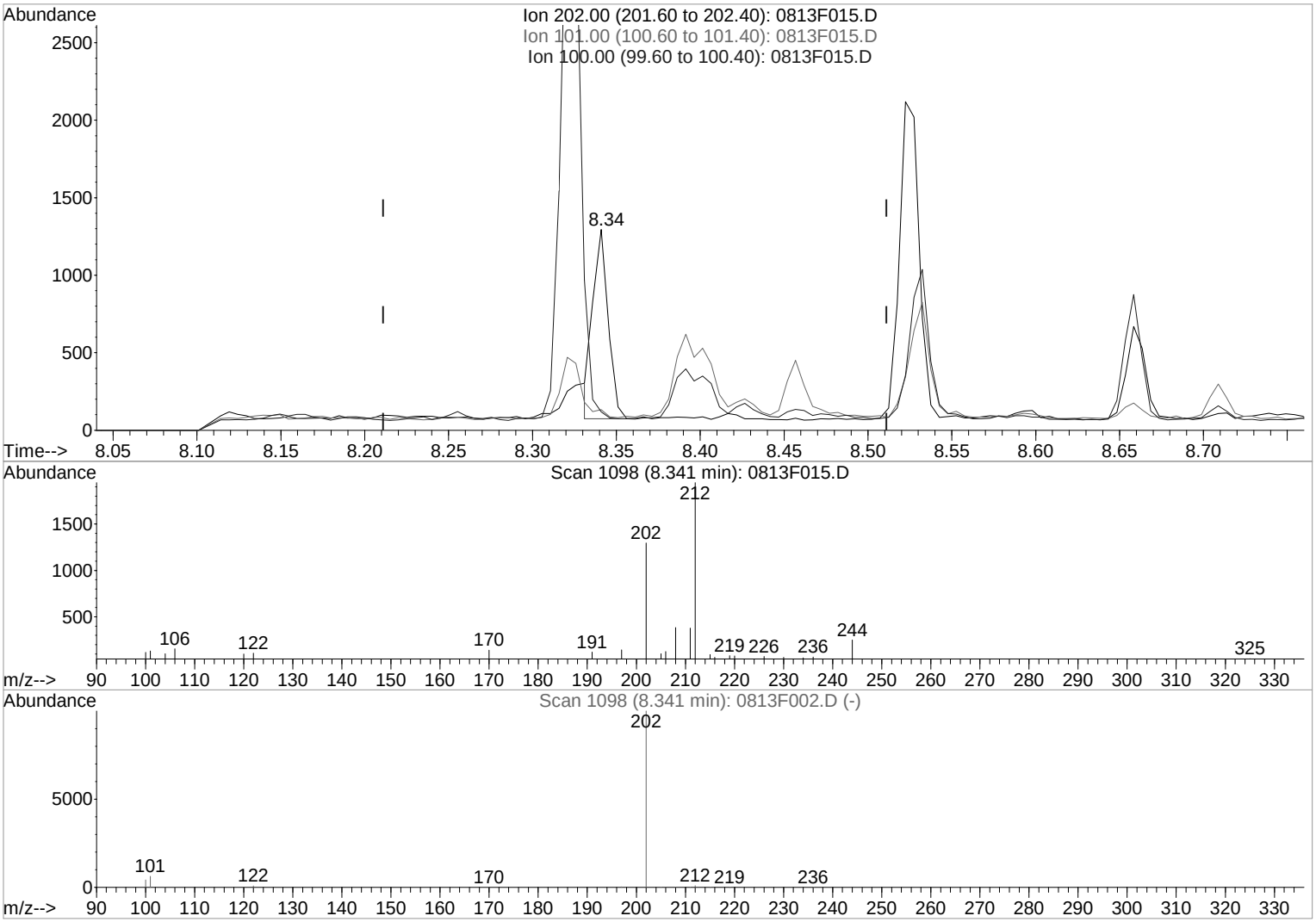
08/17/21

Quantitation Report (Qedit)

1st 08/17/21
2nd 08/19/21

Data File : J:\MS14\DATA\081321\0813F015.D Vial: 15
Acq On : 13 Aug 2021 4:46 pm Operator: E.Bruno
Sample : K2109142-001 Inst : MS14
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 17 17:03 2021 Quant Results File: temp.res

Method : J:\MS14\METHODS\SIM\072621ALK.M (RTE Integrator)
Title : PAHS and ALKYLATED HOMOLOGS
Last Update : Mon Jul 26 23:01:28 2021
Response via : Multiple Level Calibration



TIC: 0813F015.D

(32) Fluoranthene (T)

8.34min 2.75ng/ml m

response 777

Ion	Exp%	Act%
202.00	100	100
101.00	8.40	10.19
100.00	5.80	9.11
0.00	0.00	0.00

Manual Integration:

After

IC-Overintegrated

08/17/21

1st CO 09/09/21
2nd 09/15/21

Validation Report

Data File: J:\MS14\DATA\082421\0824F011.D\
Lab ID: K2109142-002
RunType: N/A
Matrix: Soil

Date Acquired: 8/24/21 19:14:00
Batch ID: 736775
Analysis Method: 8270D/PAH SIM

Validations

Validation Categories	Pass	Fail
Preparation Hold Time	X	
Analytical Hold Time	X	
ICAL Analyte Recovery	X	
Second Source ICAL Verification	X	
Continuing Calibration Recovery	X	
Lab Control Sample Recovery	X	
Method Blank	X	
Method Blank Surrogates	X	
Internal Standards		X
Surrogates		X
Std MRL Unsupported by ICAL	X	
Above Highest ICAL Level	X	

Analyte Exceptions

Exception Categories	Analyte Name	Result	Low Limit	High Limit	Corrective Action
Internal Standards	Chrysene-d12	18706	21347	85388	matrix
	Perylene-d12	22409	24607	98428	matrix
Surrogates	Fluoranthene-d10	24	38	104	suspected matrix

Primary Review: _____

Secondary Review: _____

1st 09/09/21
2nd 09/15/21

Quantitation Report

Data File:	J:\MS14\DATA\082421\0824F011.D\	**Instrument:**	K-MS-14
Acqu Date:	8/24/21 19:14:00	**Vial:**	7
Run Type:	N/A	**Dilution:**	1
Lab ID:	K2109142-002	**Raw Units:**	ng/mL

Bottle ID:	K2109142-002.01	**Tier:**	IV	**Matrix:**	Soil
Prod Code:	PAH SIM	**Collect Date:**	8/5/21	**Receive Date:**	8/6/21

Analysis Lot:	736775	**Prep Lot:**	385361	**Report Group:**	K2109142
Analysis	8270D	**Prep Method:**	EPA 3546		
		Prep Date:	8/13/21		

Title:	Polycyclic Aromatic Hydrocarbons by GC/MS SIM	**Calibration ID:**	KC2100398
		Report List ID:	18998

Internal Standard Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	Area Criteria
Acenaphthene-d10	6.09		21279	200.00	OK
Chrysene-d12	9.75		18706	200.00	* LOW
Naphthalene-d8	4.48		41171	200.00	OK
Perylene-d12	12.54	+0.02	22409	200.00	* LOW
Phenanthrene-d10	7.33		35519	200.00	OK

Surrogate Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	% Rec		% Rec Criteria	Rpt?
Fluoranthene-d10	8.32		10093	47.43	24	*	38 - 104	Y
Fluorene-d10	6.53		10039	78.23	39		39 - 109	Y
Terphenyl-d14	8.65		8409	84.12	42		38 - 113	Y

Target Compounds

Final Conc.Units: ug/Kg

Parameter Name	RT	RT Dev	Response	Solution Conc	Final Conc	Q	Rpt?
2-Methylnaphthalene	5.18		803	6.06	28		Y
Acenaphthene	6.12		789	6.10	28		Y
Acenaphthylene	0.00		0	0.00	0	U	Y
Anthracene	7.40		500	2.93	13	J	Y
Benz(a)anthracene	9.73		924	6.64	30		Y
Benzo(a)pyrene	12.38	+0.02	1171	8.64	39		Y
Benzo(b)fluoranthene	11.60	+0.01	1973	12.75	58		Y
Benzo(g,h,i)perylene	15.43	+0.03	503	3.28	15	J	Y
Benzo(k)fluoranthene	11.67	+0.02	218	1.51	6.9	J	Y
Chrysene	9.78		946	7.24	33		Y
Dibenz(a,h)anthracene	0.00		0	0.00	0	U	Y
Dibenzofuran	6.27		804	4.25	19	J	Y
Fluoranthene	8.33		2591	11.07	50		Y

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Printed: 9/3/21 11:15
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1st CO 09/09/21

2nd 09/15/21

Data File:	J:\MS14\DATA\082421\0824F011.D\	**Instrument:**	K-MS-14
Acqu Date:	8/24/21 19:14:00	**Vial:**	7
Run Type:	N/A	**Dilution:**	1
Lab ID:	K2109142-002	**Raw Units:**	ng/mL

Target Compounds

Final Conc.Units: ug/Kg

Parameter Name	RT	RT Dev	Response	Solution Conc	Final Conc	Q	Rpt?
Fluorene	6.56		2424	16.19	74		Y
Indeno(1,2,3-cd)pyrene	15.07	+0.03	431	3.35	15	J	Y
Naphthalene	4.50		1742	8.46	39		Y
Phenanthrene	7.35		3015	14.86	68		Y
Pyrene	8.52	+0.01	3787	26.06	120		Y

Prep Amount:	10.492 g	**Dilution:**	1
Prep Final Amount:	10.00 mL	**Basis Factor:**	20.90

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Printed: 9/3/21 11:15

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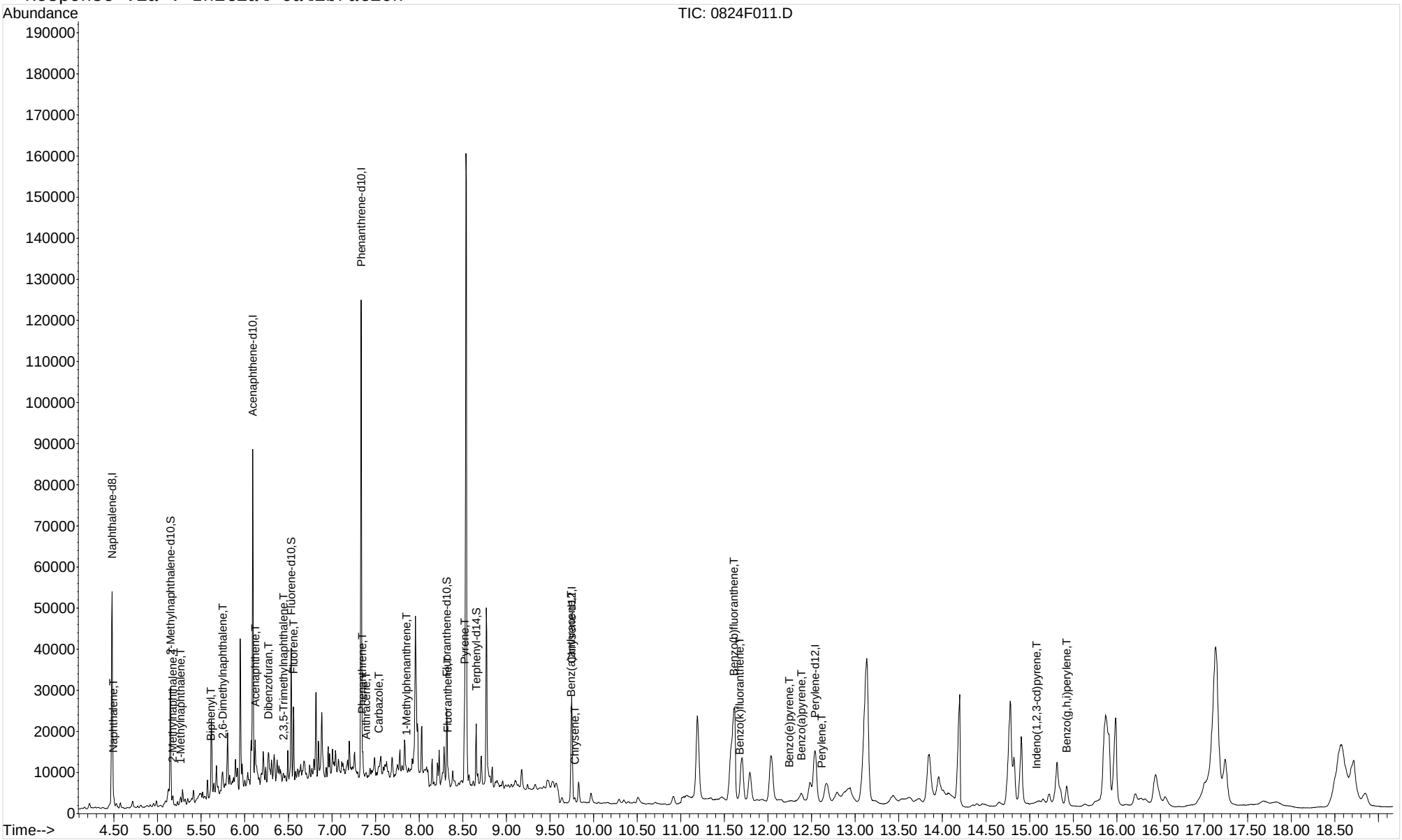
Quantitation Report (QT Reviewed)

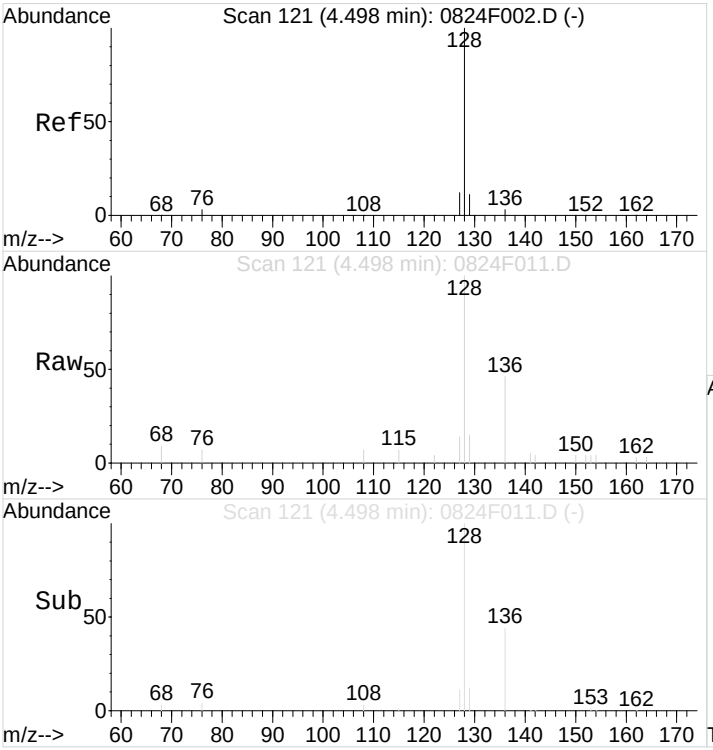
1st 09/09/21
2nd 09/15/21

Data File : J:\MS14\DATA\082421\0824F011.D Vial: 12
Acq On : 24 Aug 2021 7:14 pm Operator: CSD
Sample : K2109142-002 Inst : MS14
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 28 15:33 2021 Quant Results File: 072621ALK.RES

Method : J:\MS14\METHODS\SIM\072621ALK.M (RTE Integrator)
Title : PAHS and ALKYLATED HOMOLOGS
Last Update : Sat Aug 28 15:09:01 2021
Response via : Initial Calibration



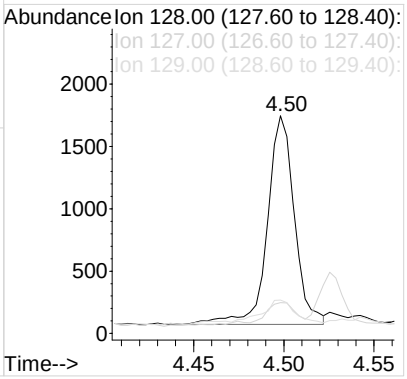
1st 09/09/21
2nd 09/15/21

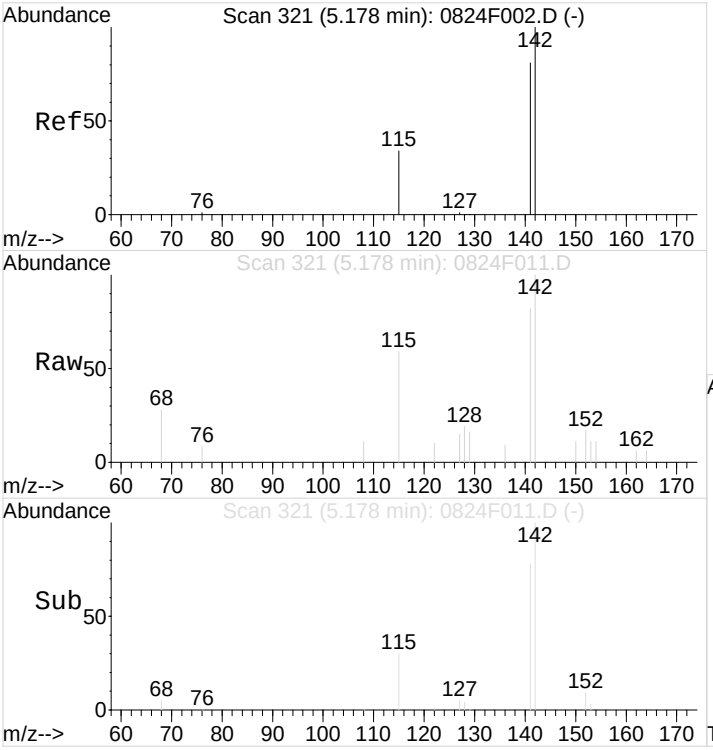


#2
Naphthalene
Concen: 8.46 ng/ml
RT: 4.50 min Scan# 121
Delta R.T. -0.05 min
Lab File: 0824F011.D
Acq: 24 Aug 2021 7:14 pm

Tgt Ion:128 Resp: 1742

Ion	Ratio	Lower	Upper
128	100		
127	10.9	0.0	42.0
129	11.8	0.0	40.9

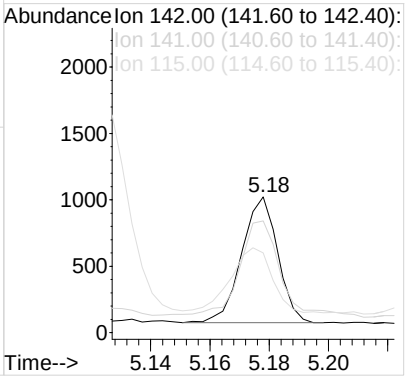


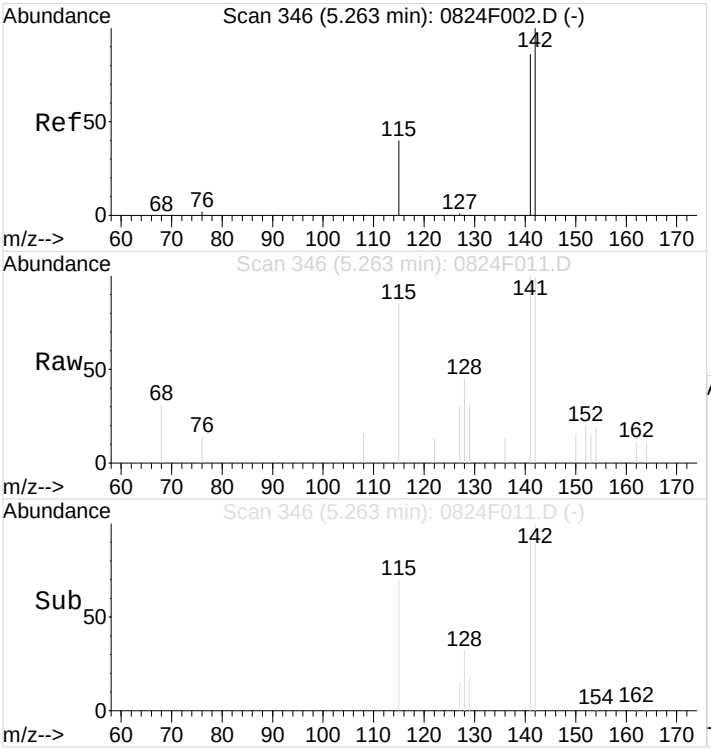


#4
2-Methylnaphthalene
Concen: 6.06 ng/ml
RT: 5.18 min Scan# 321
Delta R.T. -0.04 min
Lab File: 0824F011.D
Acq: 24 Aug 2021 7:14 pm

Tgt Ion:142 Resp: 803

Ion	Ratio	Lower	Upper
142	100		
141	74.2	49.2	109.2
115	47.4	0.0	58.9

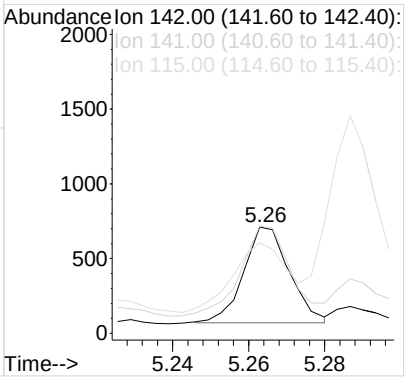


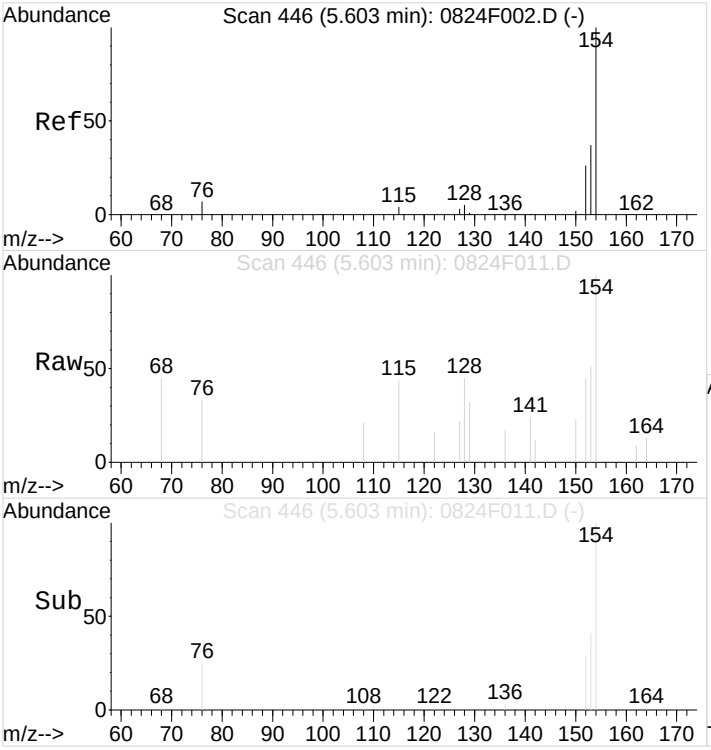


#5
1-Methylnaphthalene
Concen: 4.37 ng/ml m
RT: 5.26 min Scan# 346
Delta R.T. -0.04 min
Lab File: 0824F011.D
Acq: 24 Aug 2021 7:14 pm

Tgt Ion:142 Resp: 535

Ion	Ratio	Lower	Upper
142	100		
141	101.3	52.7	112.7
115	85.8	2.4	62.4#

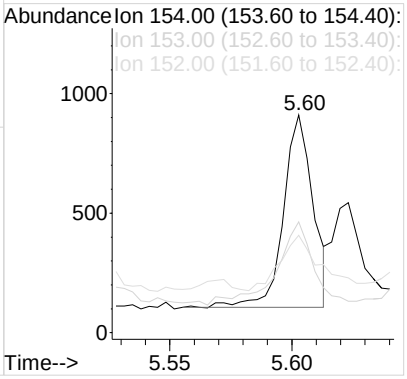


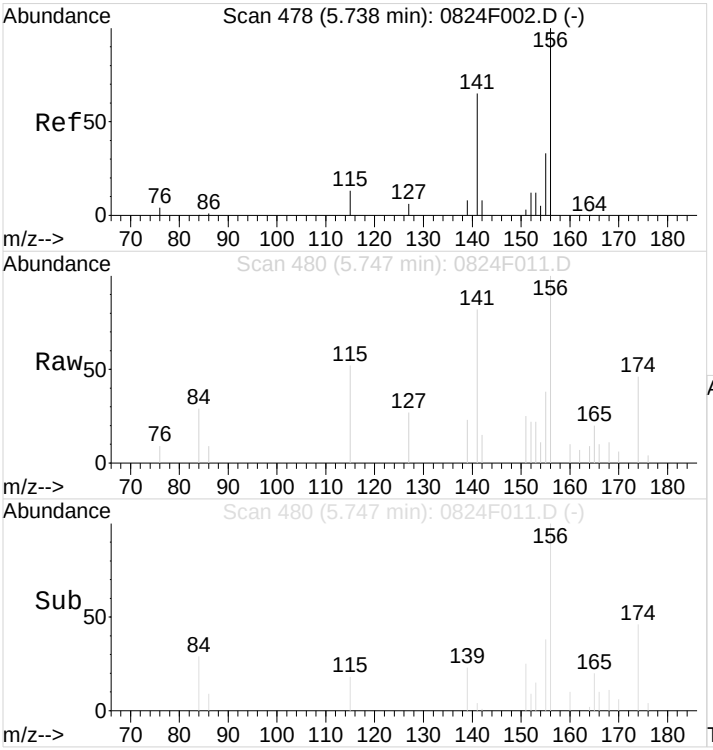


#6
Biphenyl
Concen: 3.42 ng/ml
RT: 5.60 min Scan# 446
Delta R.T. -0.04 min
Lab File: 0824F011.D
Acq: 24 Aug 2021 7:14 pm

Tgt Ion:154 Resp: 684

Ion	Ratio	Lower	Upper
154	100		
153	42.2	7.8	67.8
152	28.2	0.0	56.8

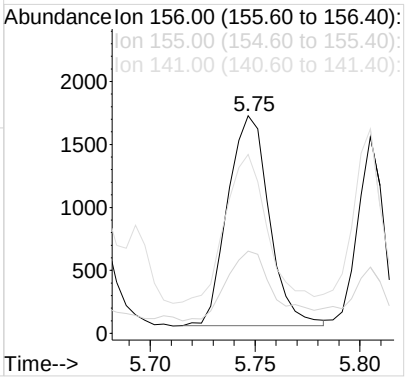


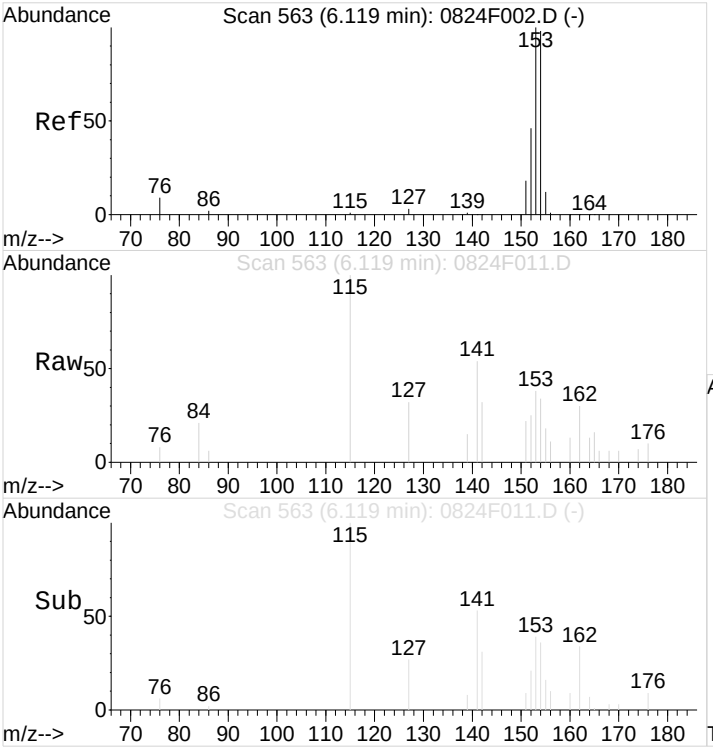


#7
2,6-Dimethylnaphthalene
Concen: 19.43 ng/ml
RT: 5.75 min Scan# 480
Delta R.T. -0.03 min
Lab File: 0824F011.D
Acq: 24 Aug 2021 7:14 pm

Tgt Ion:156 Resp: 2304

Ion	Ratio	Lower	Upper
156	100		
155	33.2	1.6	61.6
141	70.4	31.3	91.3

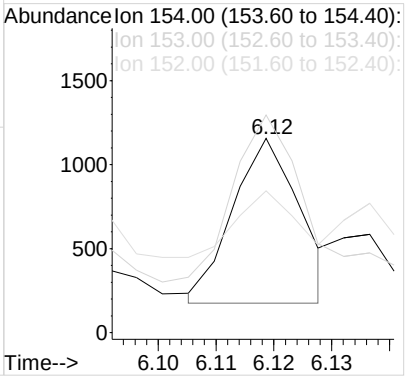




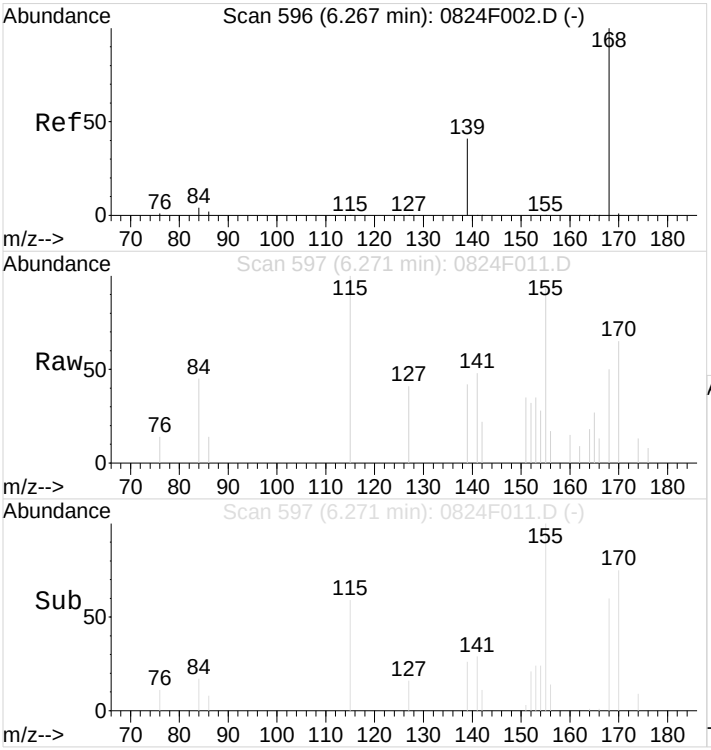
#14
Acenaphthene
Concen: 6.10 ng/ml m
RT: 6.12 min Scan# 563
Delta R.T. -0.04 min
Lab File: 0824F011.D
Acq: 24 Aug 2021 7:14 pm

Tgt Ion:154 Resp: 789

Ion	Ratio	Lower	Upper
154	100		
153	112.0	66.6	126.6
152	73.1	14.1	74.1



1st 09/09/21
2nd 09/15/21

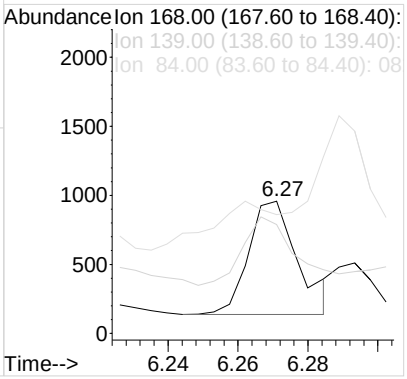


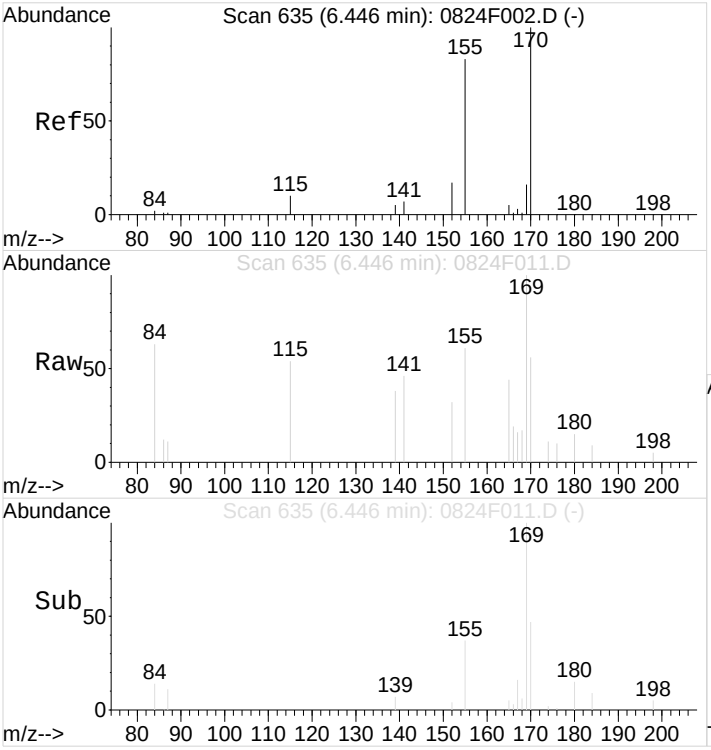
#15
Dibenzofuran
Concen: 4.25 ng/ml
RT: 6.27 min Scan# 597
Delta R.T. -0.03 min
Lab File: 0824F011.D
Acq: 24 Aug 2021 7:14 pm

J

Tgt Ion:168 Resp: 804

Ion	Ratio	Lower	Upper
168	100		
139	48.5	0.0	54.6
84	16.5	0.0	32.5

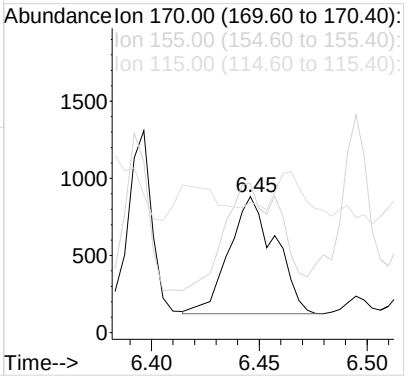




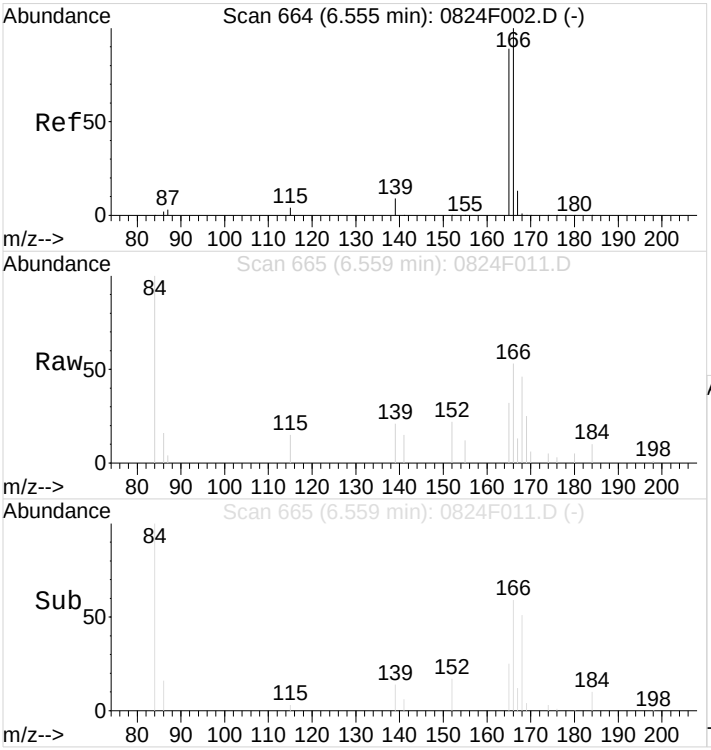
#16
2,3,5-Trimethylnaphthalene
Concen: 10.64 ng/ml
RT: 6.45 min Scan# 635
Delta R.T. -0.03 min
Lab File: 0824F011.D
Acq: 24 Aug 2021 7:14 pm

Tgt Ion:170 Resp: 1288

Ion	Ratio	Lower	Upper
170	100		
155	91.4	47.5	107.5
115	6.6	0.0	38.1



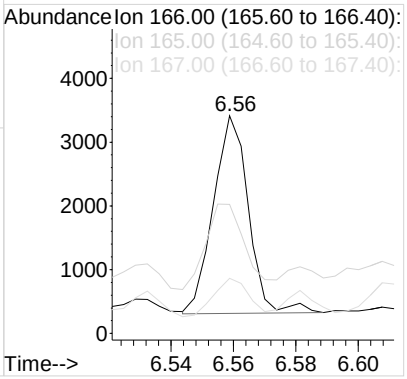
1st 09/09/21
2nd 09/15/21

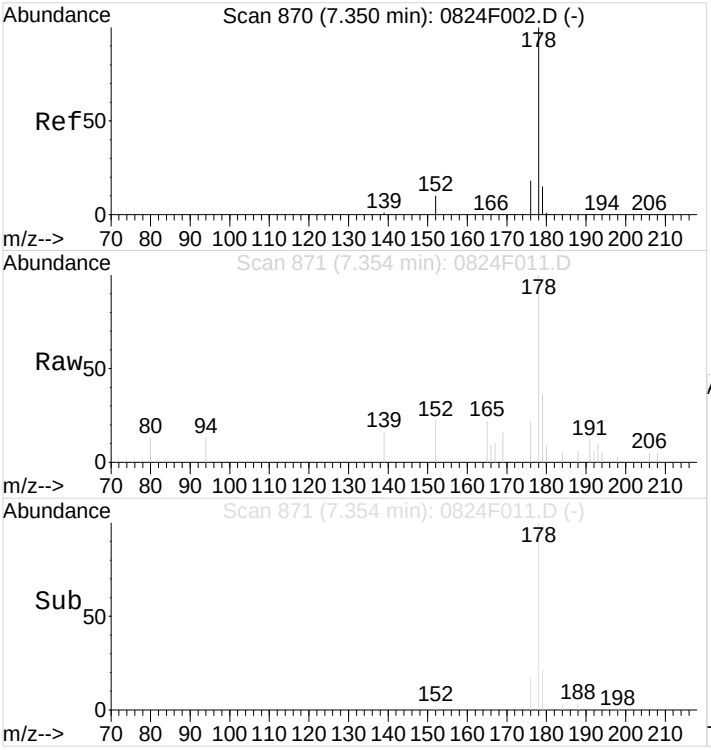


#18
Fluorene
Concen: 16.19 ng/ml
RT: 6.56 min Scan# 665
Delta R.T. -0.03 min
Lab File: 0824F011.D
Acq: 24 Aug 2021 7:14 pm

Tgt Ion:166 Resp: 2424

Ion	Ratio	Lower	Upper
166	100		
165	43.3	56.6	116.6#
167	19.4	0.0	43.3

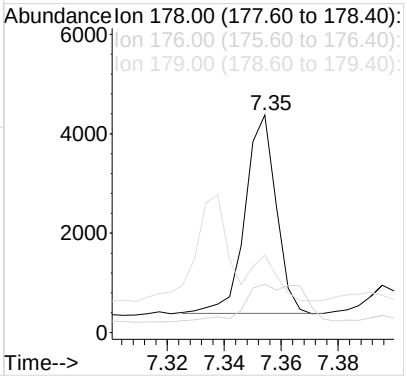




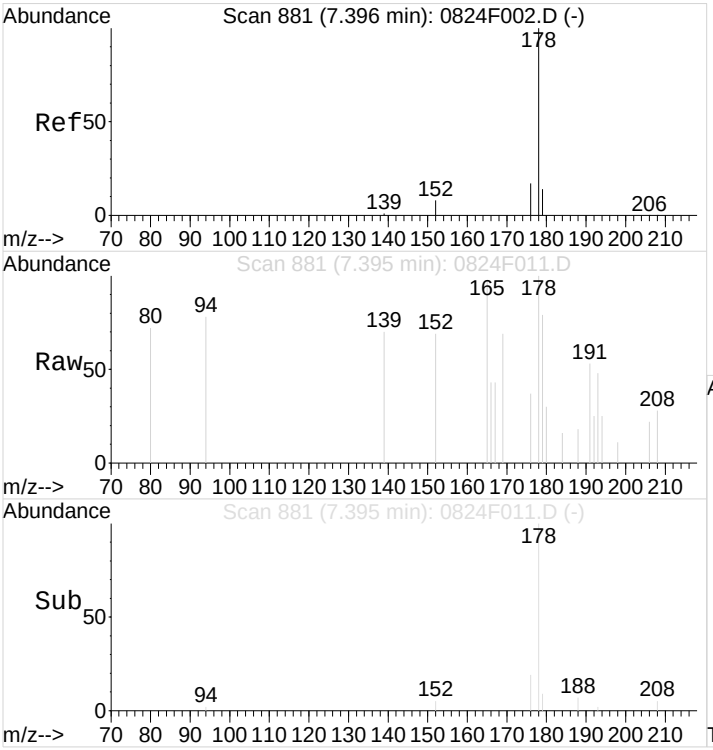
#24
Phenanthrene
Concen: 14.86 ng/ml
RT: 7.35 min Scan# 871
Delta R.T. -0.03 min
Lab File: 0824F011.D
Acq: 24 Aug 2021 7:14 pm

Tgt Ion:178 Resp: 3015

Ion	Ratio	Lower	Upper
178	100		
176	18.5	0.0	47.3
179	22.7	0.0	45.2



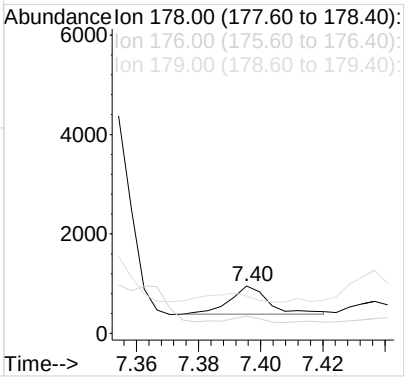
1st 09/09/21
2nd 09/15/21

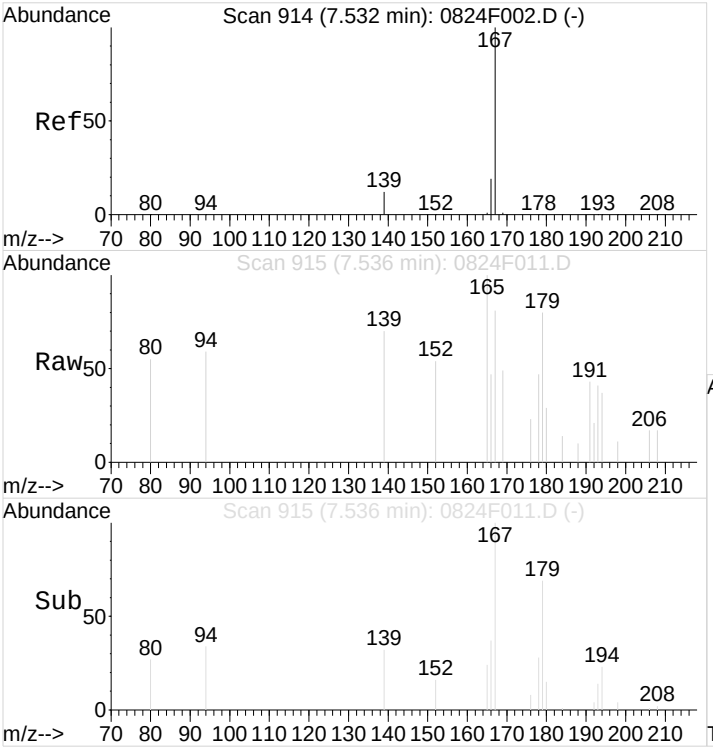


#25
Anthracene
Concen: 2.93 ng/ml
RT: 7.40 min Scan# 881
Delta R.T. -0.03 min
Lab File: 0824F011.D
Acq: 24 Aug 2021 7:14 pm

Tgt Ion:178 Resp: 500

Ion	Ratio	Lower	Upper
178	100		
176	21.4	0.0	46.9
179	18.6	0.0	45.1

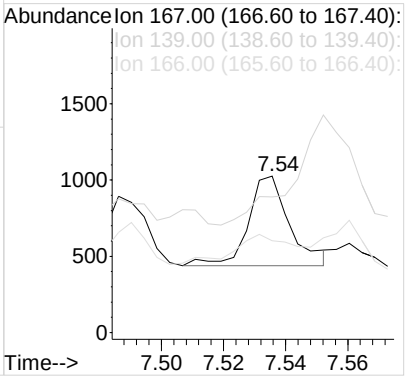


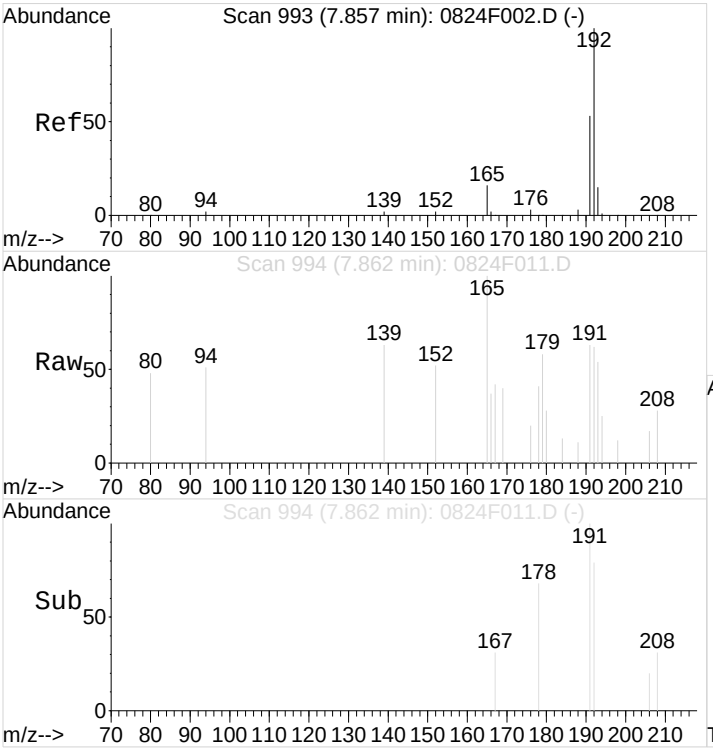


#26
Carbazole
Concen: 3.10 ng/ml
RT: 7.54 min Scan# 915
Delta R.T. -0.03 min
Lab File: 0824F011.D
Acq: 24 Aug 2021 7:14 pm

Tgt Ion:167 Resp: 548

Ion	Ratio	Lower	Upper
167	100		
139	14.3	0.0	42.2
166	24.8	0.0	48.6

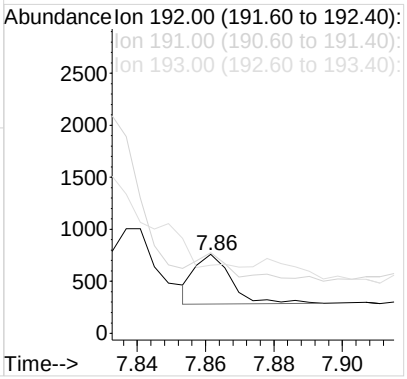


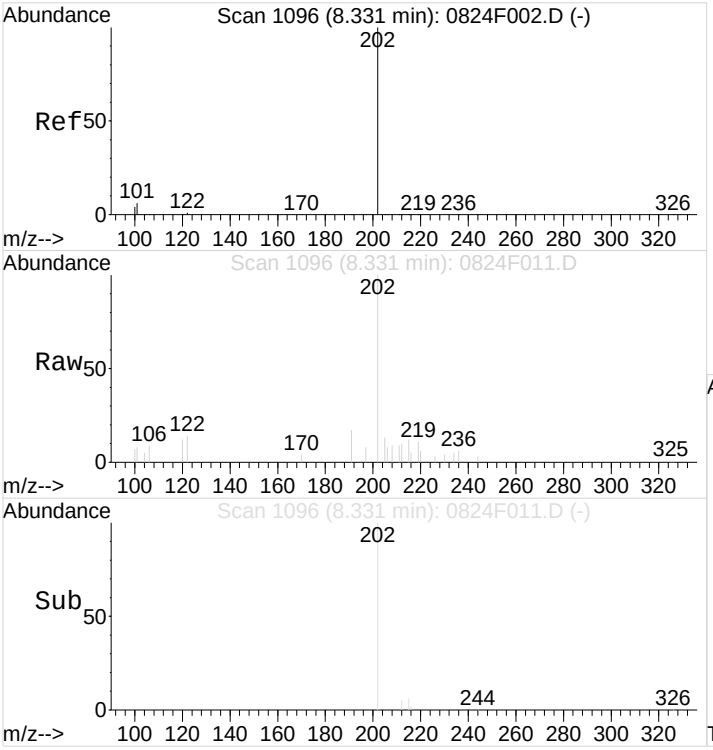


#27
1-Methylphenanthrene
Concen: 2.37 ng/ml
RT: 7.86 min Scan# 994
Delta R.T. -0.03 min
Lab File: 0824F011.D
Acq: 24 Aug 2021 7:14 pm

Tgt Ion:192 Resp: 354

Ion	Ratio	Lower	Upper
192	100		
191	58.3	20.9	80.9
193	28.3	0.0	45.4

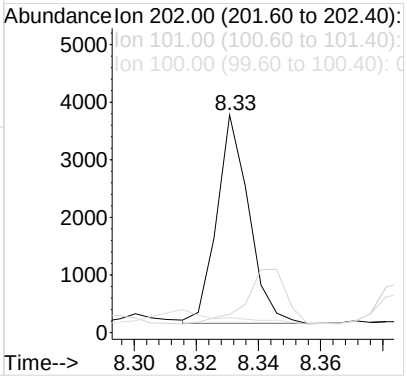




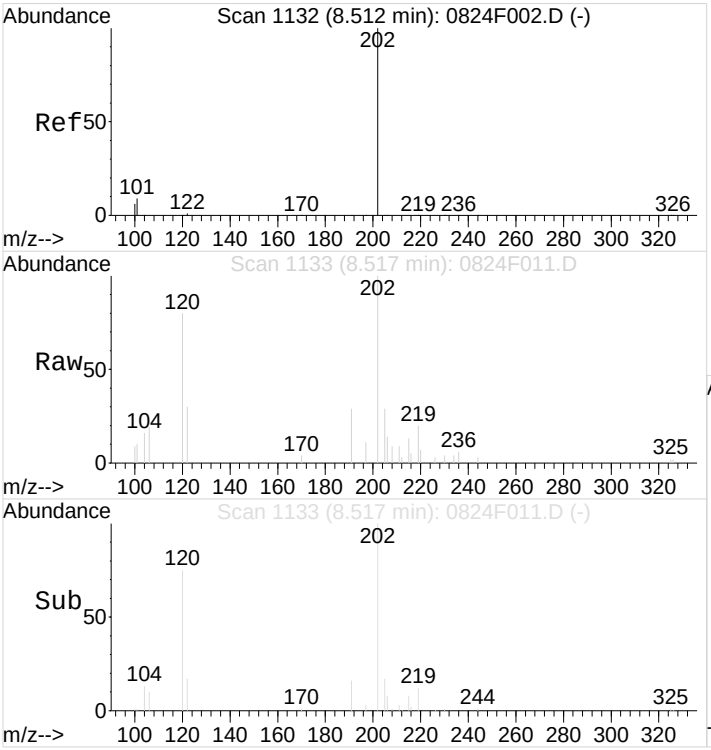
#32
Fluoranthene
Concen: 11.07 ng/ml
RT: 8.33 min Scan# 1096
Delta R.T. -0.03 min
Lab File: 0824F011.D
Acq: 24 Aug 2021 7:14 pm

Tgt Ion:202 Resp: 2591

Ion	Ratio	Lower	Upper
202	100		
101	4.5	0.0	38.4
100	2.9	0.0	35.8



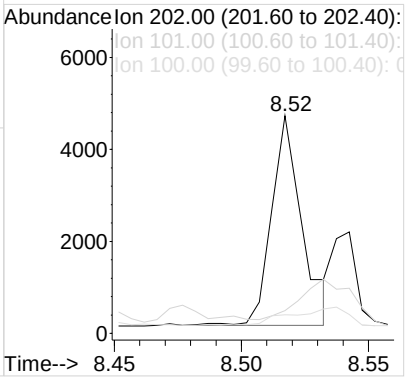
1st CO 09/09/21
2nd 09/15/21

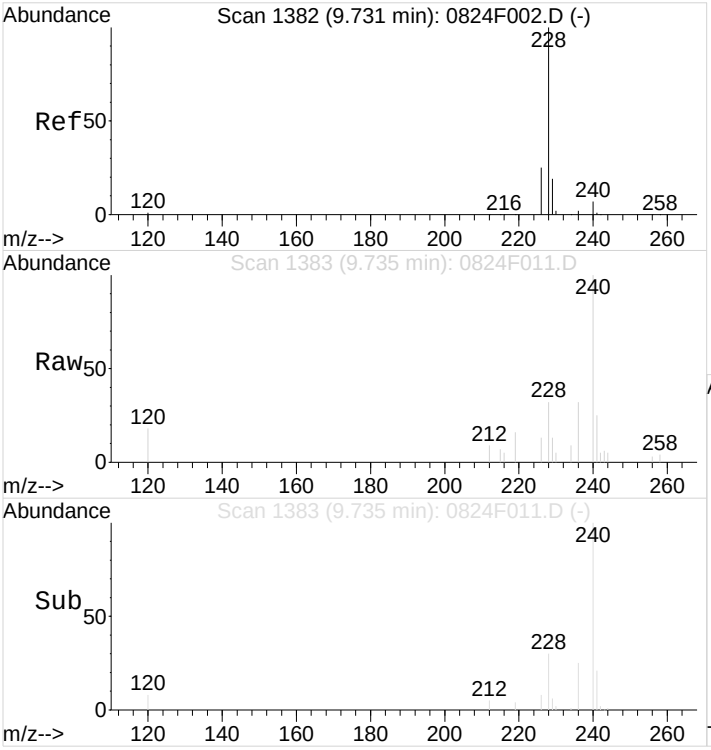


#35
Pyrene
Concen: 26.06 ng/ml
RT: 8.52 min Scan# 1133
Delta R.T. -0.03 min
Lab File: 0824F011.D
Acq: 24 Aug 2021 7:14 pm

Tgt Ion:202 Resp: 3787

Ion	Ratio	Lower	Upper
202	100		
101	0.0	0.0	38.0
100	5.1	0.0	35.6

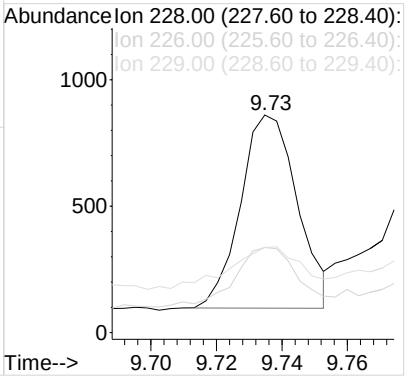




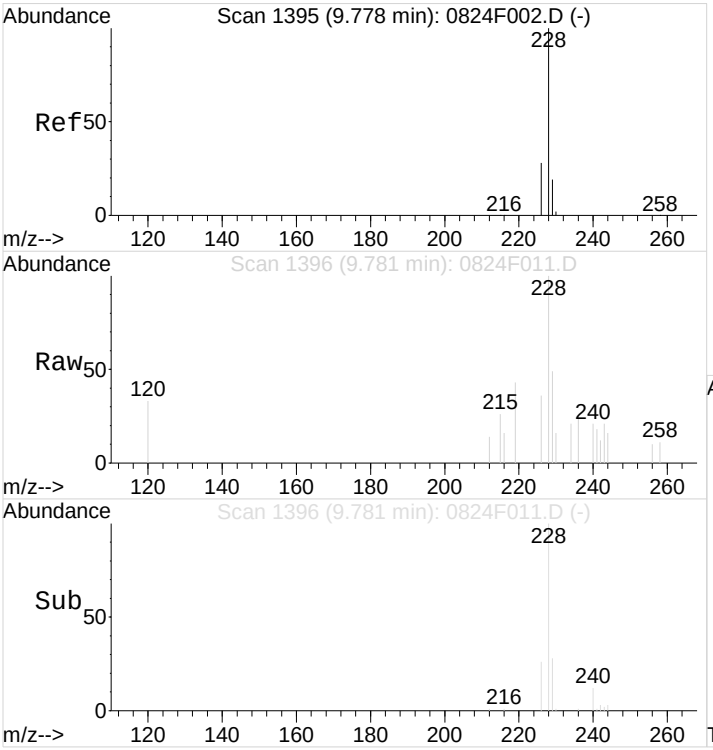
#38
Benz(a)anthracene
Concen: 6.64 ng/ml
RT: 9.73 min Scan# 1383
Delta R.T. -0.05 min
Lab File: 0824F011.D
Acq: 24 Aug 2021 7:14 pm

Tgt Ion:228 Resp: 924

Ion	Ratio	Lower	Upper
228	100		
226	28.2	0.0	53.9
229	18.0	0.0	49.5



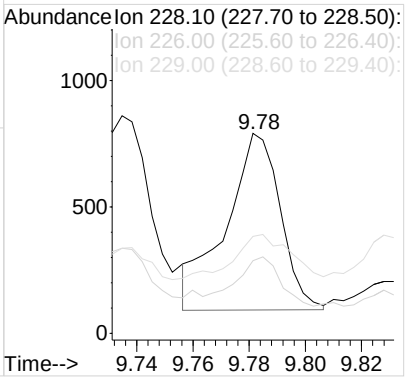
1st 09/09/21
2nd 09/15/21

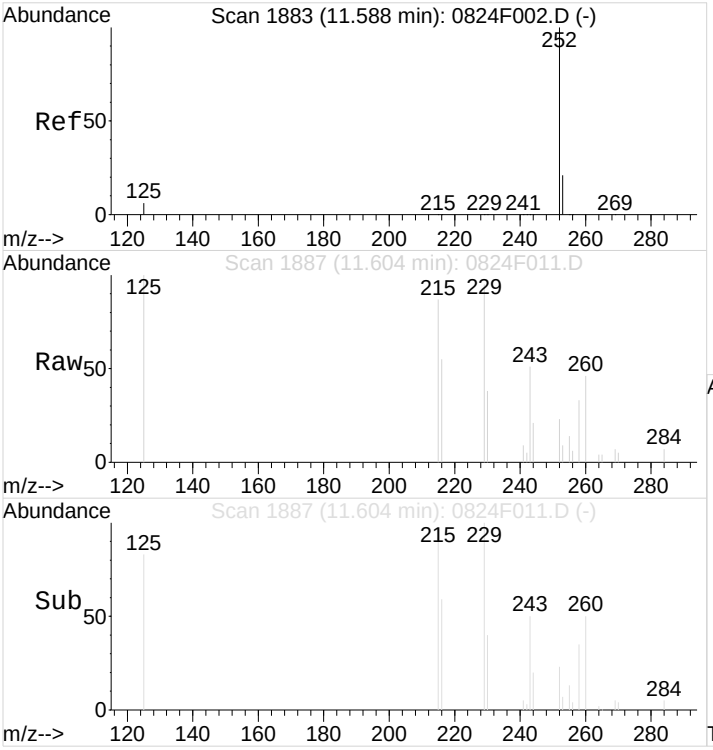


#39
Chrysene
Concen: 7.24 ng/ml
RT: 9.78 min Scan# 1396
Delta R.T. -0.05 min
Lab File: 0824F011.D
Acq: 24 Aug 2021 7:14 pm

Tgt Ion:228 Resp: 946

Ion	Ratio	Lower	Upper
228	100		
226	25.0	0.0	56.7
229	24.4	0.0	49.5

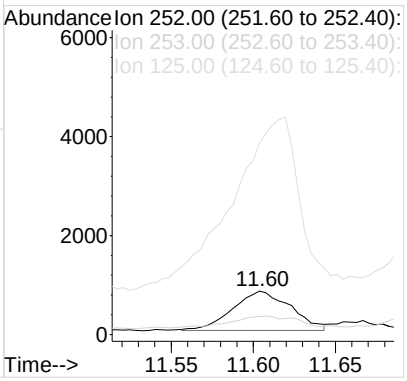




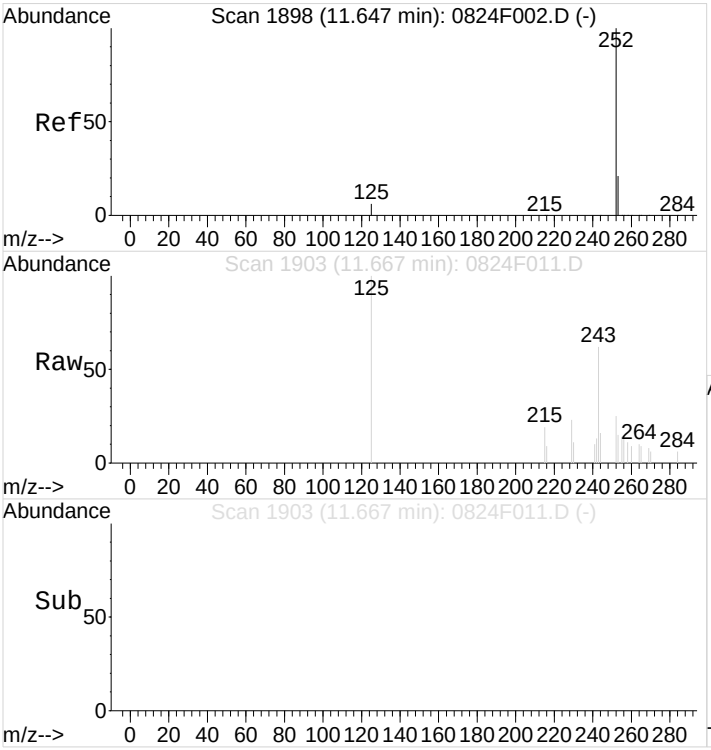
#45
Benzo(b)fluoranthene
Concen: 12.75 ng/ml m
RT: 11.60 min Scan# 1887
Delta R.T. -0.05 min
Lab File: 0824F011.D
Acq: 24 Aug 2021 7:14 pm

Tgt Ion:252 Resp: 1973

Ion	Ratio	Lower	Upper
252	100		
253	41.4	0.0	51.6
125	438.1	0.0	36.5#



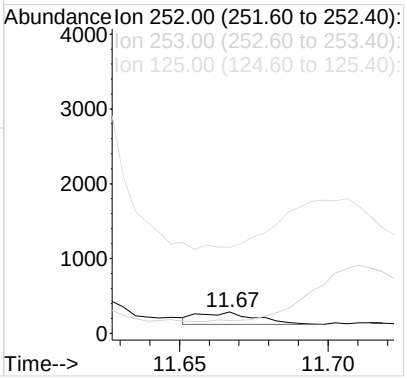
1st CO 09/09/21
2nd 09/15/21

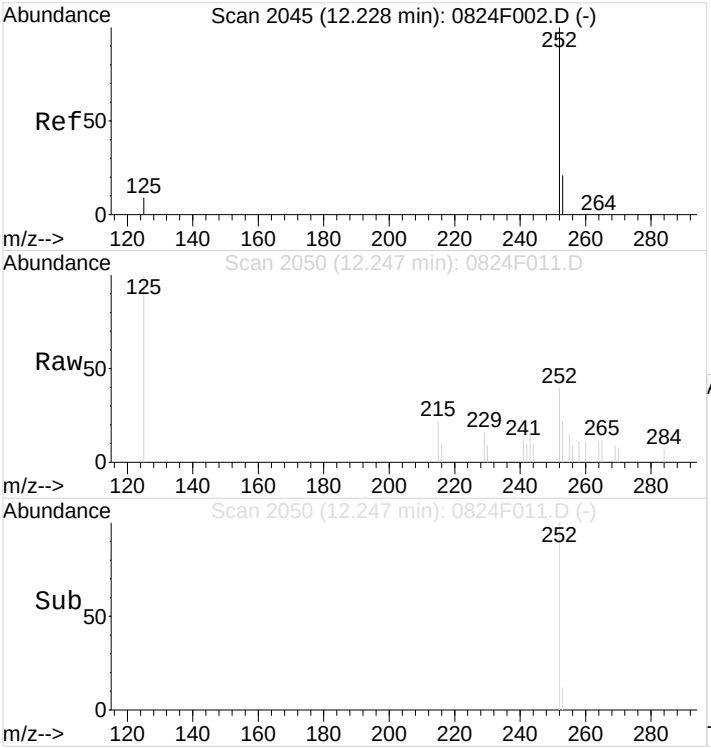


#46
Benzo(k)fluoranthene
Concen: 1.51 ng/ml
RT: 11.67 min Scan# 1903
Delta R.T. -0.05 min
Lab File: 0824F011.D
Acq: 24 Aug 2021 7:14 pm

Tgt Ion:252 Resp: 218

Ion	Ratio	Lower	Upper
252	100		
253	6.7	0.0	51.4
125	0.0	0.0	36.5

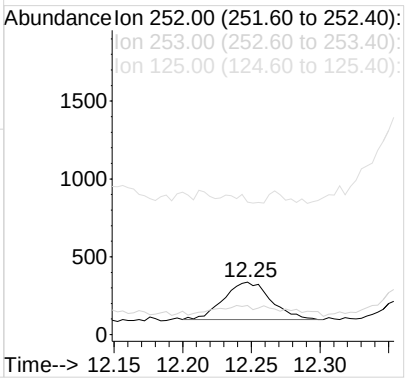




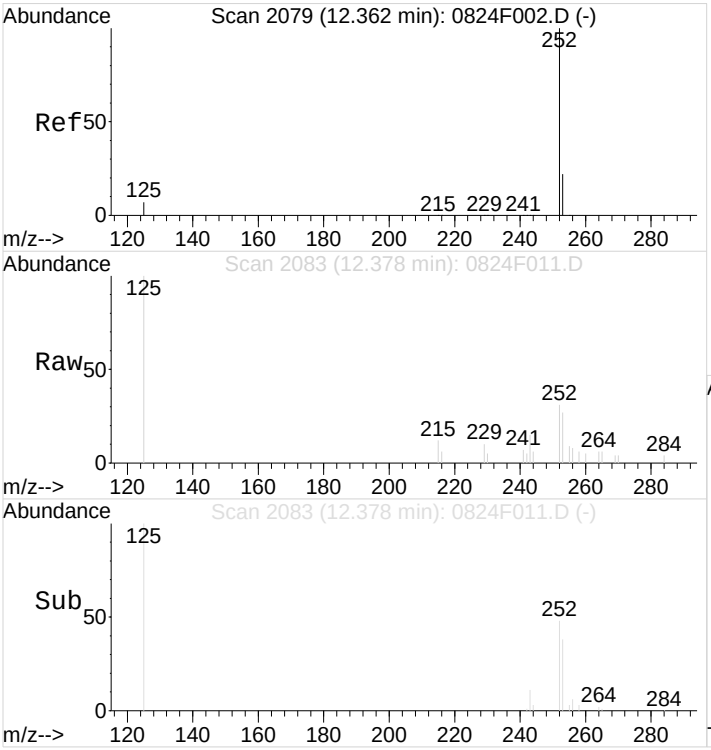
#47
Benzo(e)pyrene
Concen: 3.98 ng/ml
RT: 12.25 min Scan# 2050
Delta R.T. -0.05 min
Lab File: 0824F011.D
Acq: 24 Aug 2021 7:14 pm

Tgt Ion:252 Resp: 579

Ion	Ratio	Lower	Upper
252	100		
253	29.3	0.0	51.3
125	0.0	0.0	39.4



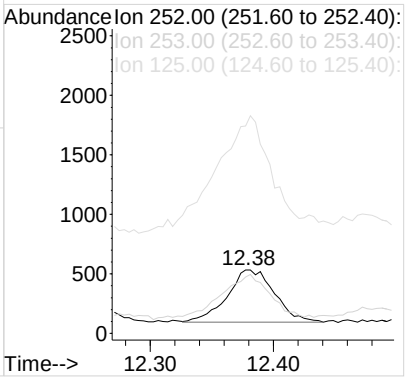
1st CO 09/09/21
2nd 09/15/21

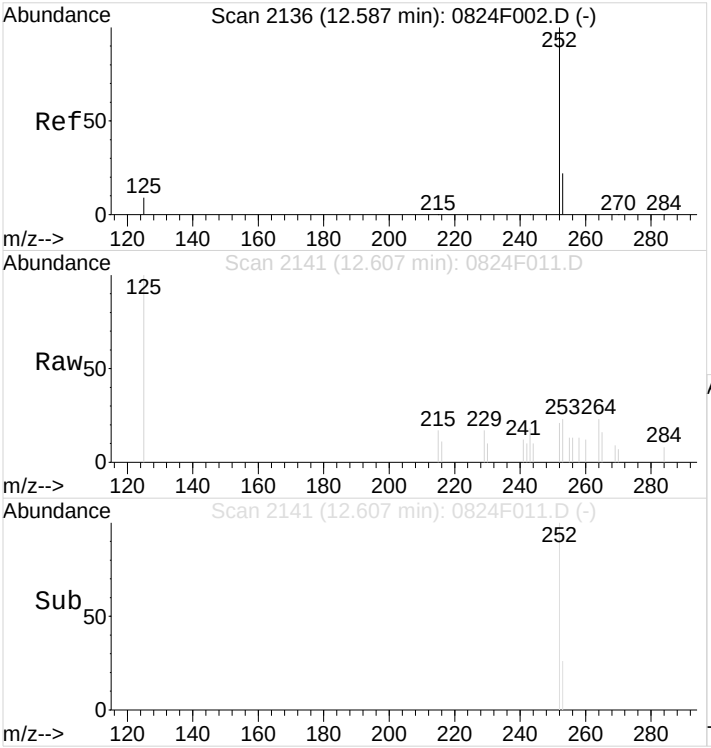


#48
Benzo(a)pyrene
Concen: 8.64 ng/ml
RT: 12.38 min Scan# 2083
Delta R.T. -0.06 min
Lab File: 0824F011.D
Acq: 24 Aug 2021 7:14 pm

Tgt Ion:252 Resp: 1171

Ion	Ratio	Lower	Upper
252	100		
253	75.6	0.0	51.2#
125	182.0	0.0	37.4#

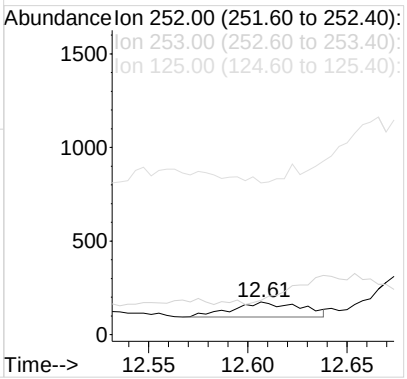




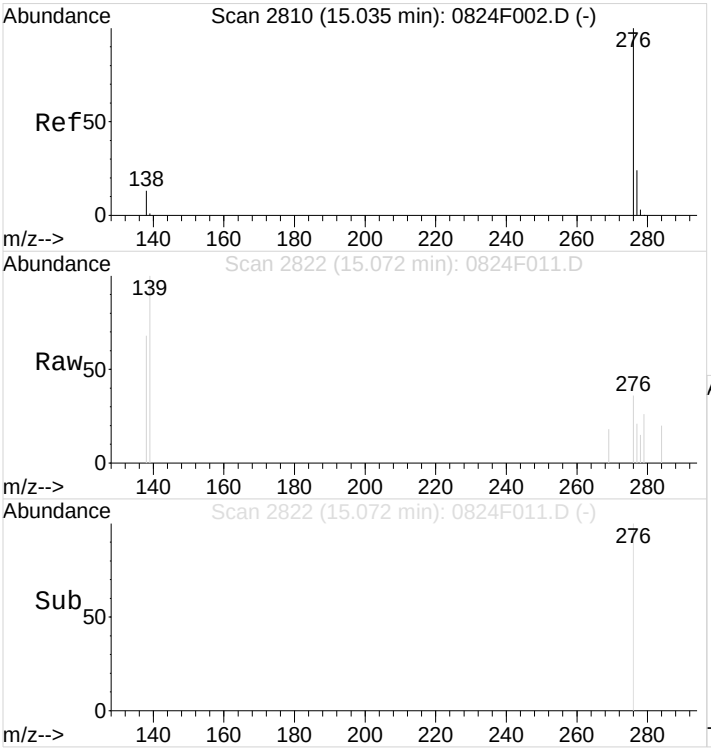
#49
Perylene
Concen: 1.46 ng/ml
RT: 12.61 min Scan# 2141
Delta R.T. -0.06 min
Lab File: 0824F011.D
Acq: 24 Aug 2021 7:14 pm

Tgt Ion:252 Resp: 195

Ion	Ratio	Lower	Upper
252	100		
253	0.0	0.0	51.5
125	0.0	0.0	39.8



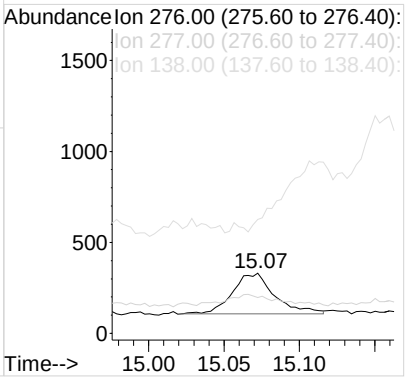
1st CO 09/09/21
2nd 09/15/21

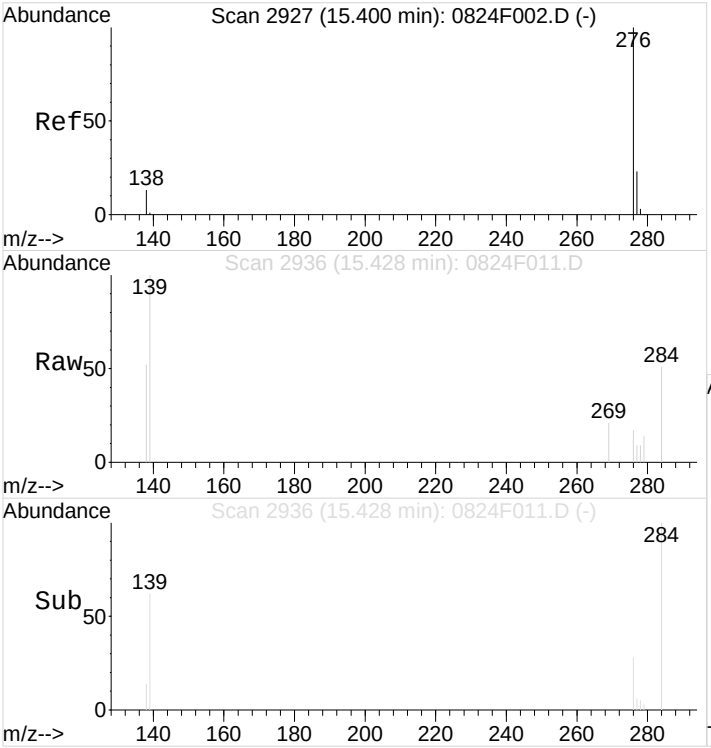


#50
Indeno(1,2,3-cd)pyrene
Concen: 3.35 ng/ml
RT: 15.07 min Scan# 2822
Delta R.T. 0.01 min
Lab File: 0824F011.D
Acq: 24 Aug 2021 7:14 pm

Tgt Ion:276 Resp: 431

Ion	Ratio	Lower	Upper
276	100		
277	17.9	0.0	53.5
138	22.4	0.0	43.7

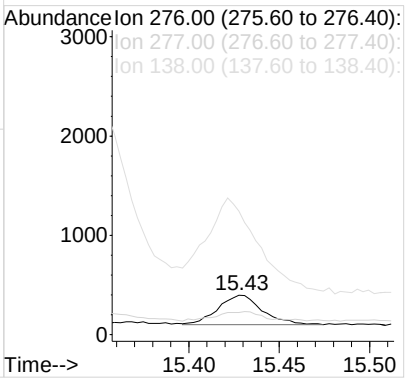




#52
Benzo(g,h,i)perylene
Concen: 3.28 ng/ml
RT: 15.43 min Scan# 2936
Delta R.T. 0.00 min
Lab File: 0824F011.D
Acq: 24 Aug 2021 7:14 pm

Tgt Ion:276 Resp: 503

Ion	Ratio	Lower	Upper
276	100		
277	30.0	0.0	53.5
138	270.7	0.0	44.3#



Quantitation Report (QT Reviewed)

1st CD 09/09/21
2nd 09/15/21

Data File : J:\MS14\DATA\082421\0824F011.D Vial: 12
Acq On : 24 Aug 2021 7:14 pm Operator: CSD
Sample : K2109142-002 Inst : MS14
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 28 15:09:38 2021 Quant Results File: 072621ALK.RES

Quant Method : J:\MS14\METHODS\SIM\072621ALK.M (RTE Integrator)
Title : PAHS and ALKYLATED HOMOLOGS
Last Update : Sat Aug 28 15:09:01 2021
Response via : Initial Calibration
DataAcq Meth : A_PAHAT05

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Naphthalene-d8	4.48	136	41171	200.00	ng/ml	-0.05
12) Acenaphthene-d10	6.09	164	21279	200.00	ng/ml	-0.04
22) Phenanthrene-d10	7.33	188	35519	200.00	ng/ml	-0.03
34) Chrysene-d12	9.75	240	18706	200.00	ng/ml	-0.05
44) Perylene-d12	12.54	264	22409	200.00	ng/ml	-0.05
System Monitoring Compounds						
3) 2-Methylnaphthalene-d10	5.15	152	10645	89.19	ng/ml	-0.04
Spiked Amount 200.000			Recovery =	44.59%		
17) Fluorene-d10	6.53	176	10039	78.23	ng/ml	-0.03
Spiked Amount 200.000			Recovery =	39.12%		
33) Fluoranthene-d10	8.32	212	10093	47.43	ng/ml	-0.03
Spiked Amount 200.000			Recovery =	23.72%		
37) Terphenyl-d14	8.65	244	8409	84.12	ng/ml	-0.04
Spiked Amount 200.000			Recovery =	42.06%		
Target Compounds						Qvalue
2) Naphthalene	4.50	128	1742	8.46	ng/ml	97
4) 2-Methylnaphthalene	5.18	142	803	6.06	ng/ml	87
5) 1-Methylnaphthalene	5.26	142	535m	4.37	ng/ml	
6) Biphenyl	5.60	154	684	3.42	ng/ml	95
7) 2,6-Dimethylnaphthalene	5.75	156	2304	19.43	ng/ml	91
14) Acenaphthene	6.12	154	789m	6.10	ng/ml	
15) Dibenzofuran	6.27	168	804	4.25	ng/ml	53
16) 2,3,5-Trimethylnaphthalene	6.45	170	1288	10.64	ng/ml	85
18) Fluorene	6.56	166	2424	16.19	ng/ml#	57
24) Phenanthrene	7.35	178	3015	14.86	ng/ml	90
25) Anthracene	7.40	178	500	2.93	ng/ml	91
26) Carbazole	7.54	167	548	3.10	ng/ml	89
27) 1-Methylphenanthrene	7.86	192	354	2.37	ng/ml	85
32) Fluoranthene	8.33	202	2591	11.07	ng/ml	90
35) Pyrene	8.52	202	3787	26.06	ng/ml	86
38) Benz(a)anthracene	9.73	228	924	6.64	ng/ml	94
39) Chrysene	9.78	228	946	7.24	ng/ml	94
45) Benzo(b)fluoranthene	11.60	252	1973m	12.75	ng/ml	
46) Benzo(k)fluoranthene	11.67	252	218	1.51	ng/ml	72
47) Benzo(e)pyrene	12.25	252	579	3.98	ng/ml	80
48) Benzo(a)pyrene	12.38	252	1171	8.64	ng/ml#	1
49) Perylene	12.61	252	195	1.46	ng/ml	60
50) Indeno(1,2,3-cd)pyrene	15.07	276	431	3.35	ng/ml	85
52) Benzo(g,h,i)perylene	15.43	276	503	3.28	ng/ml#	1

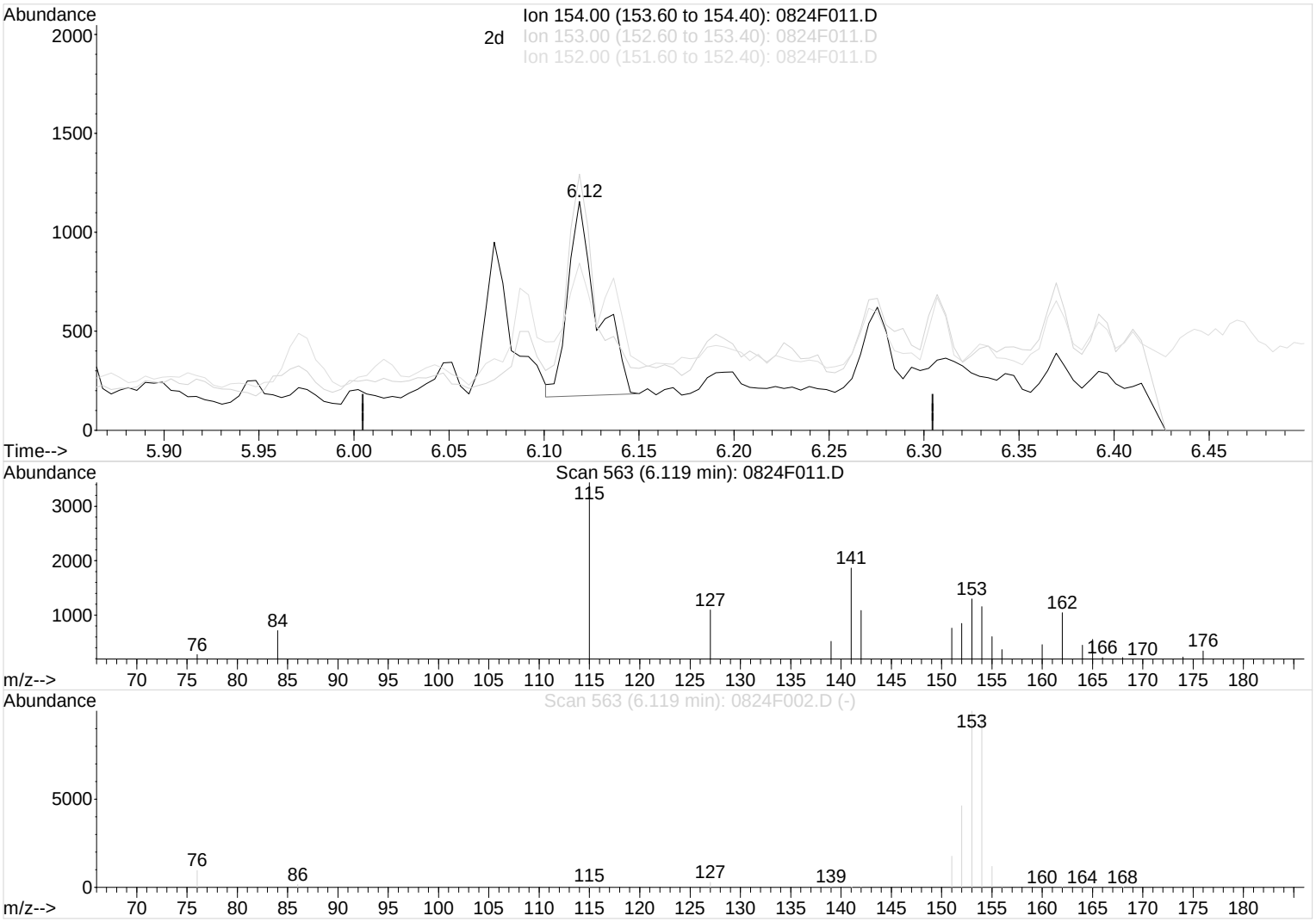
(#) = qualifier out of range (m) = manual integration

Quantitation Report (Qedit)

1st CO 09/09/21
2nd 09/15/21

Data File : J:\MS14\DATA\082421\0824F011.D Vial: 12
Acq On : 24 Aug 2021 7:14 pm Operator: CSD
Sample : K2109142-002 Inst : MS14
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 28 15:29 2021 Quant Results File: temp.res

Method : J:\MS14\METHODS\SIM\072621ALK.M (RTE Integrator)
Title : PAHS and ALKYLATED HOMOLOGS
Last Update : Sat Aug 28 15:09:01 2021
Response via : Multiple Level Calibration



TIC: 0824F011.D

(14) Acenaphthene (T)

6.12min 8.28ng/ml

response 1071

Ion	Exp%	Act%
154.00	100	100
153.00	96.60	102.27
152.00	44.10	50.98
0.00	0.00	0.00

Manual Integration:

Before

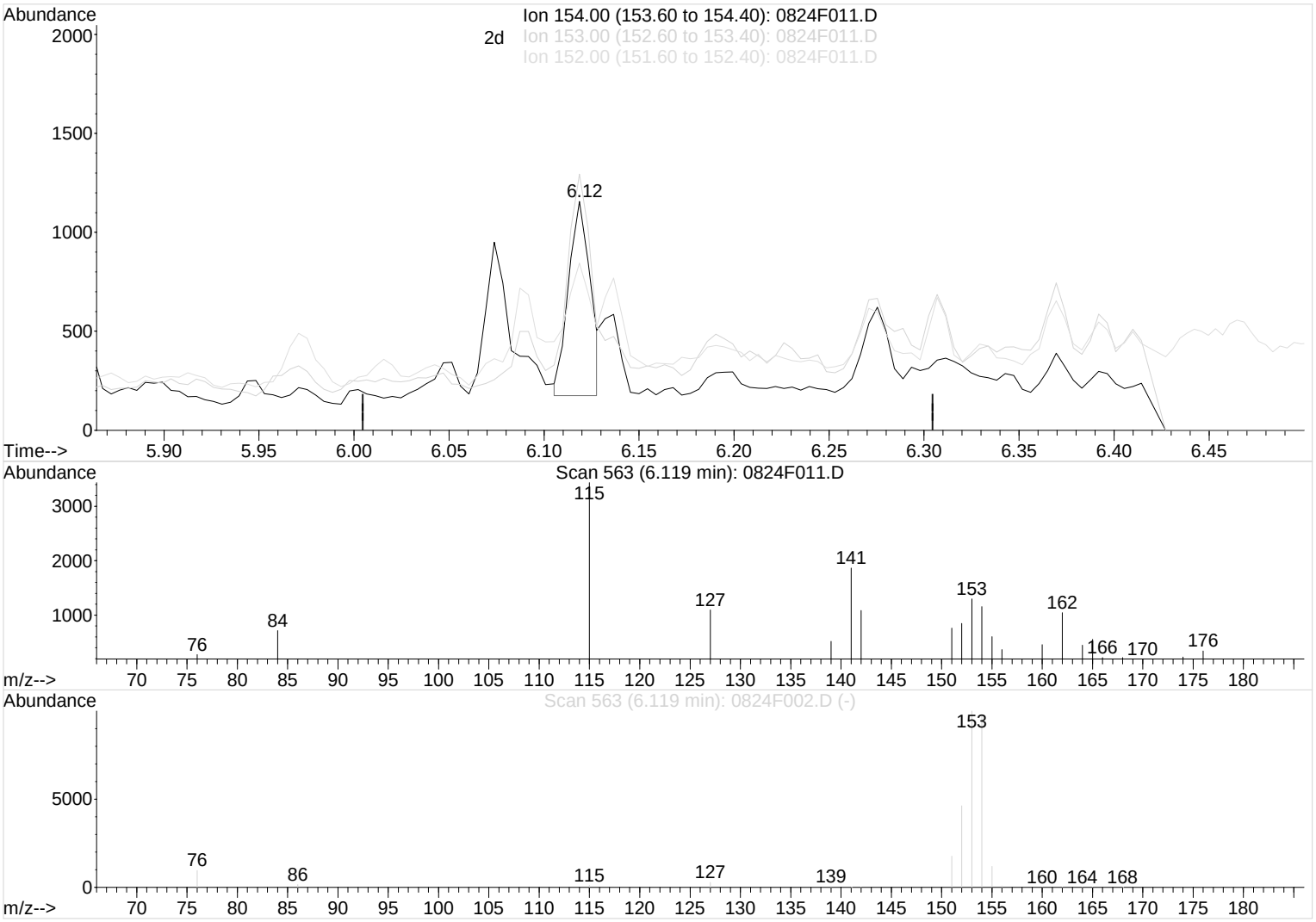
08/28/21

Quantitation Report (Qedit)

1st CO 09/09/21
2nd 09/15/21

Data File : J:\MS14\DATA\082421\0824F011.D Vial: 12
Acq On : 24 Aug 2021 7:14 pm Operator: CSD
Sample : K2109142-002 Inst : MS14
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 28 15:29 2021 Quant Results File: temp.res

Method : J:\MS14\METHODS\SIM\072621ALK.M (RTE Integrator)
Title : PAHS and ALKYLATED HOMOLOGS
Last Update : Sat Aug 28 15:09:01 2021
Response via : Multiple Level Calibration



TIC: 0824F011.D

(14) Acenaphthene (T)

6.12min 6.10ng/ml m

response 789

Ion	Exp%	Act%
154.00	100	100
153.00	96.60	112.02
152.00	44.10	73.10
0.00	0.00	0.00

Manual Integration:

After

Baseline correction

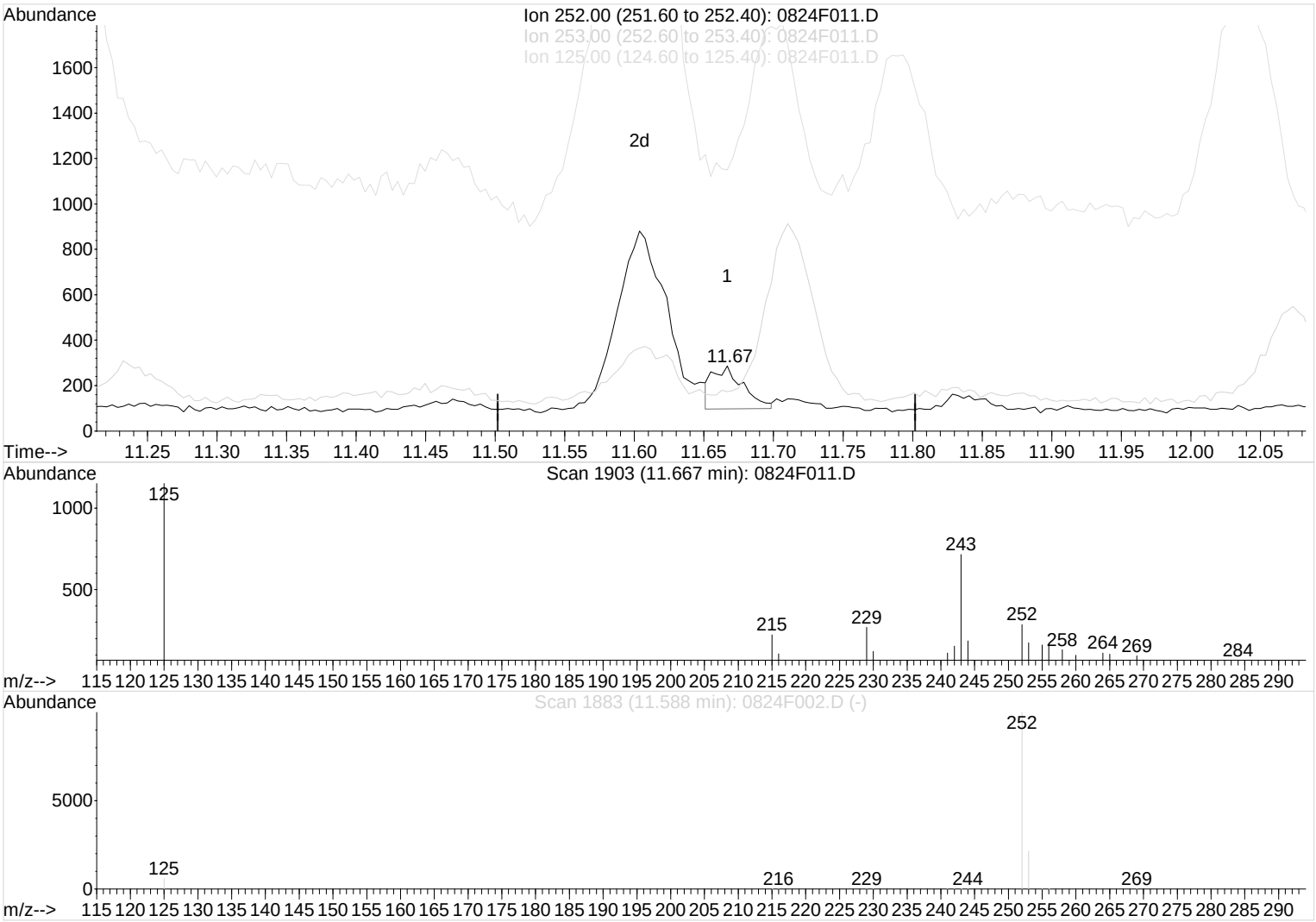
08/28/21

Quantitation Report (Qedit)

1st CO 09/09/21
2nd 09/15/21

Data File : J:\MS14\DATA\082421\0824F011.D Vial: 12
Acq On : 24 Aug 2021 7:14 pm Operator: CSD
Sample : K2109142-002 Inst : MS14
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 28 15:31 2021 Quant Results File: temp.res

Method : J:\MS14\METHODS\SIM\072621ALK.M (RTE Integrator)
Title : PAHS and ALKYLATED HOMOLOGS
Last Update : Sat Aug 28 15:09:01 2021
Response via : Multiple Level Calibration



TIC: 0824F011.D

(45) Benzo(b)fluoranthene (T)

11.67min 1.85ng/ml

response 286

Ion	Exp%	Act%
252.00	100	100
253.00	21.60	6.71
125.00	6.50	0.00
0.00	0.00	0.00

Manual Integration:

Before

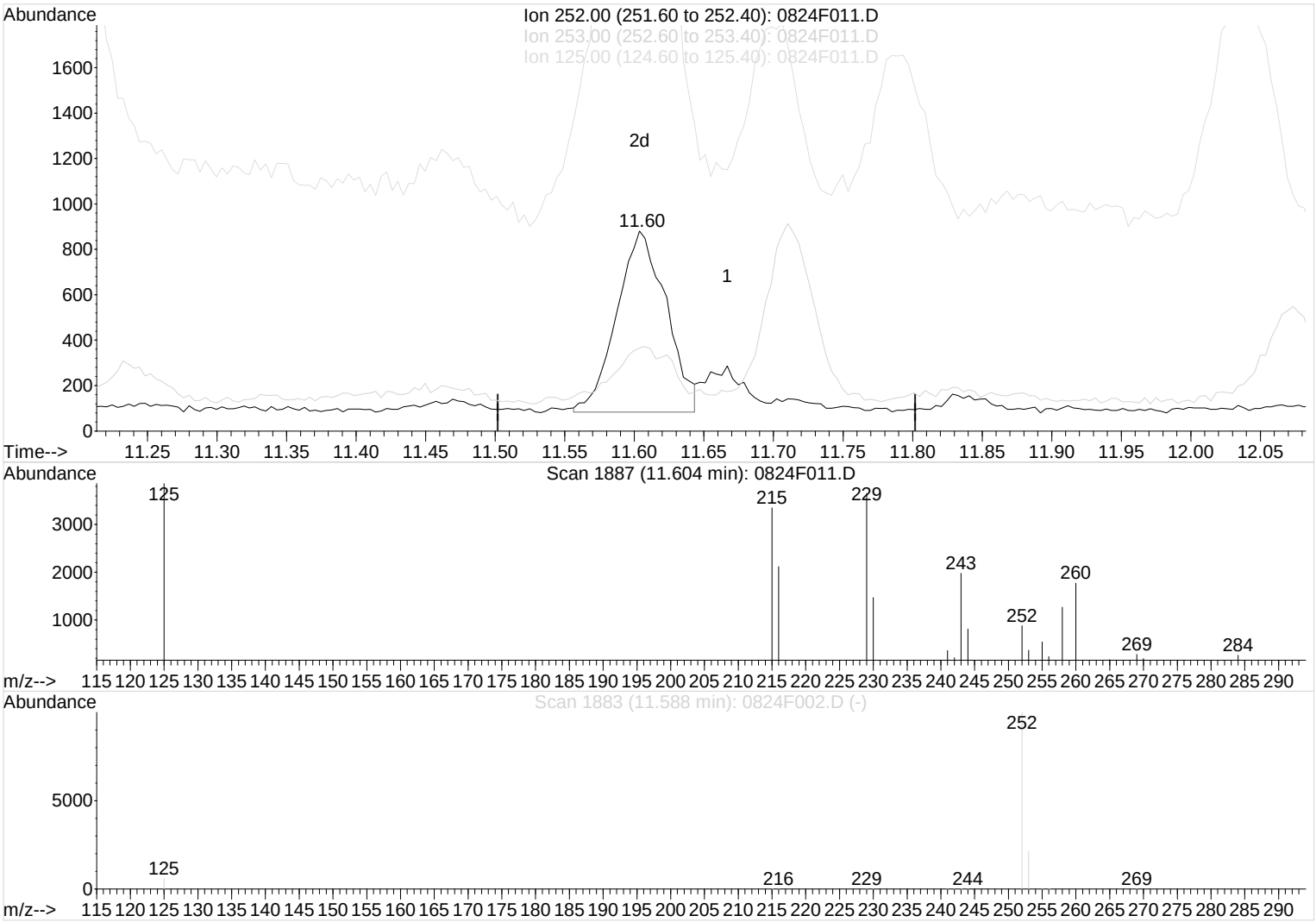
08/28/21

Quantitation Report (Qedit)

1st CO 09/09/21
2nd 09/15/21

Data File : J:\MS14\DATA\082421\0824F011.D Vial: 12
Acq On : 24 Aug 2021 7:14 pm Operator: CSD
Sample : K2109142-002 Inst : MS14
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 28 15:32 2021 Quant Results File: temp.res

Method : J:\MS14\METHODS\SIM\072621ALK.M (RTE Integrator)
Title : PAHS and ALKYLATED HOMOLOGS
Last Update : Sat Aug 28 15:09:01 2021
Response via : Multiple Level Calibration



TIC: 0824F011.D

(45) Benzo(b)fluoranthene (T)

11.60min 12.75ng/ml m

response 1973

Ion	Exp%	Act%
252.00	100	100
253.00	21.60	41.43
125.00	6.50	438.14#
0.00	0.00	0.00

Manual Integration:

After

Wrong peak

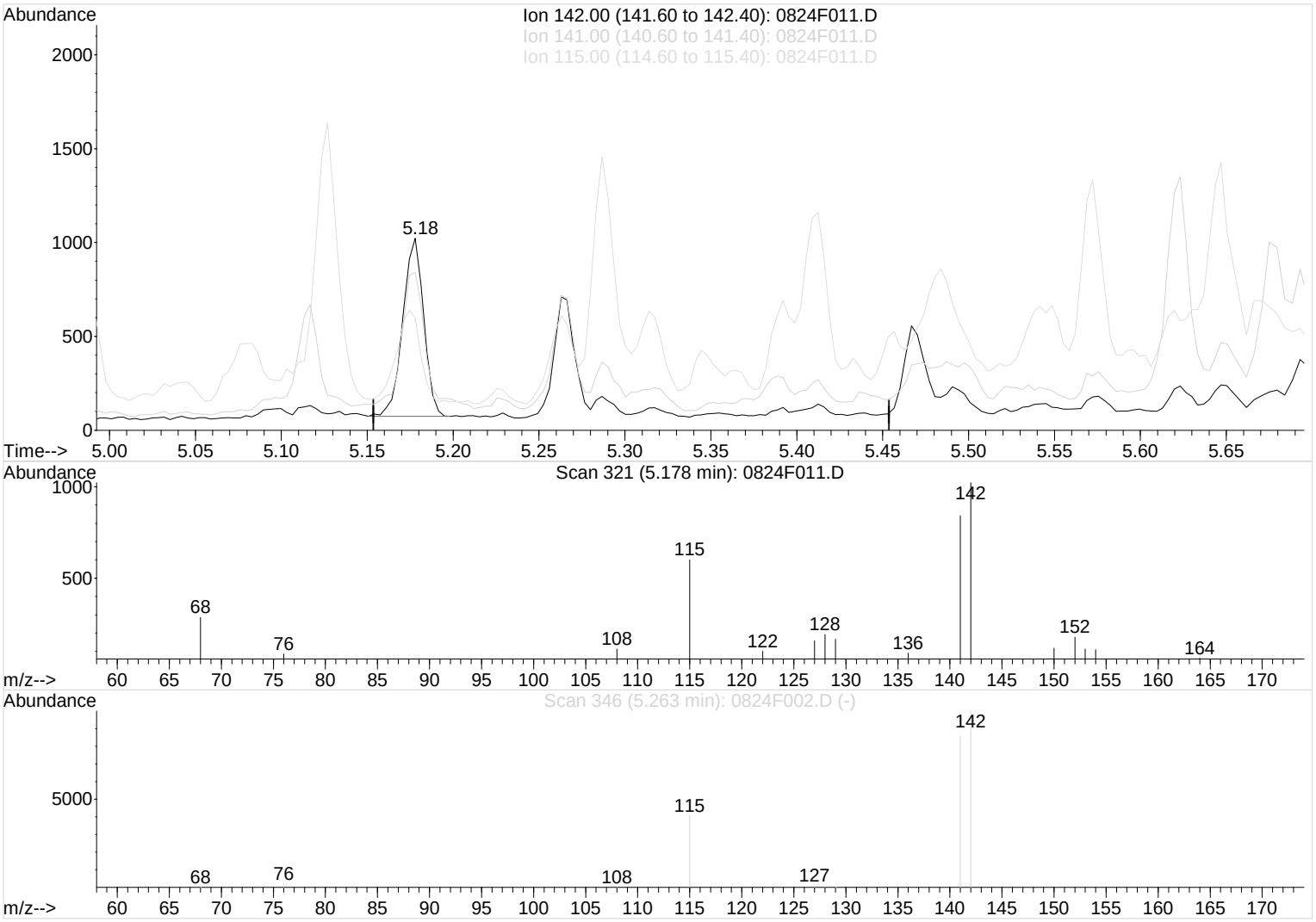
08/28/21

Quantitation Report (Qedit)

1st CO 09/09/21
2nd 09/15/21

Data File : J:\MS14\DATA\082421\0824F011.D Vial: 12
Acq On : 24 Aug 2021 7:14 pm Operator: CSD
Sample : K2109142-002 Inst : MS14
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 28 15:09 2021 Quant Results File: temp.res

Method : J:\MS14\METHODS\SIM\072621ALK.M (RTE Integrator)
Title : PAHS and ALKYLATED HOMOLOGS
Last Update : Sat Aug 28 15:09:01 2021
Response via : Multiple Level Calibration



TIC: 0824F011.D

(5) 1-Methylnaphthalene (T)

5.18min 6.56ng/ml

response 803

Ion	Exp%	Act%
142.00	100	100
141.00	82.70	74.18
115.00	32.40	47.42
0.00	0.00	0.00

Manual Integration:

Before

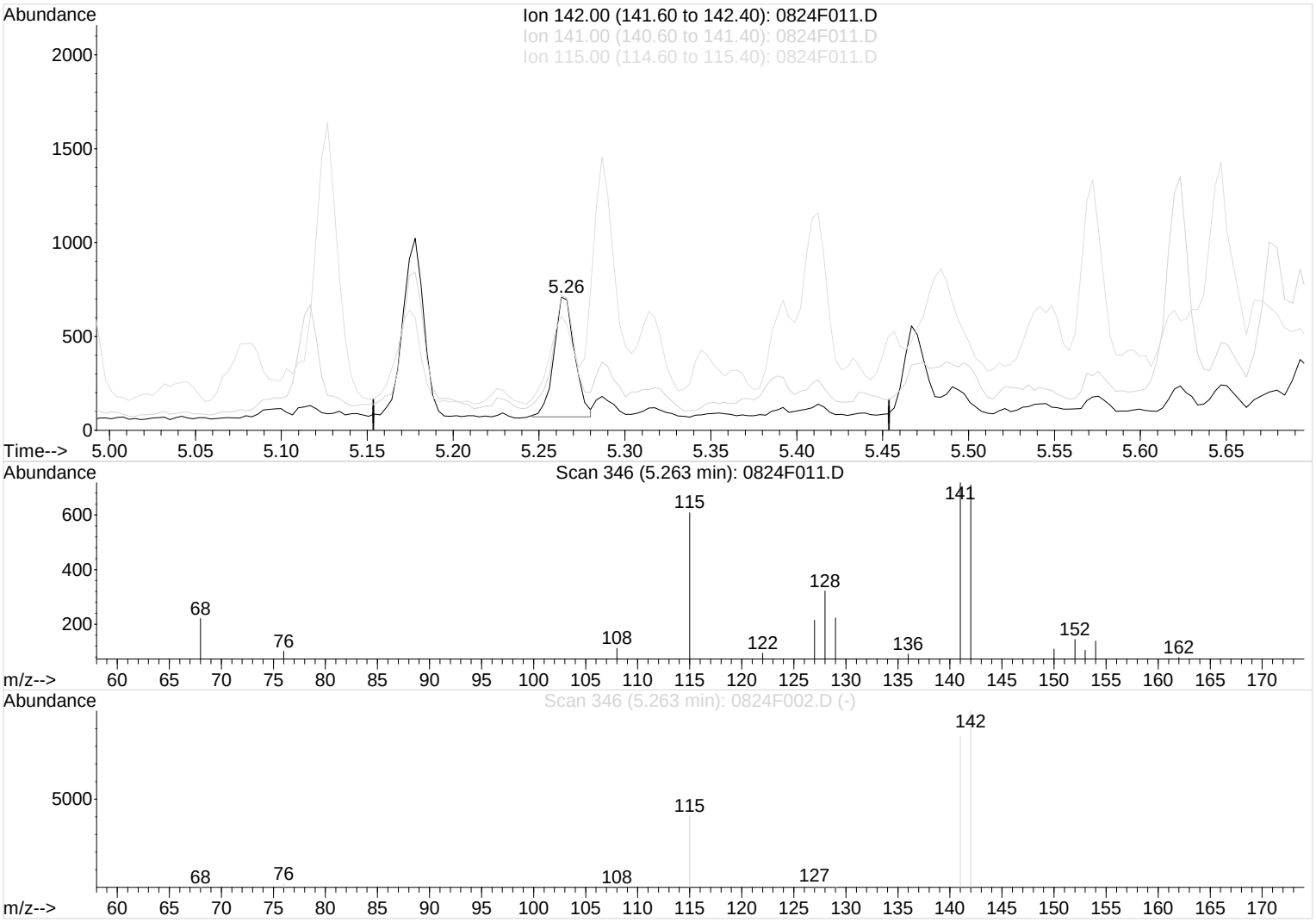
08/28/21

Quantitation Report (Qedit)

1st CO 09/09/21
2nd 09/15/21

Data File : J:\MS14\DATA\082421\0824F011.D Vial: 12
Acq On : 24 Aug 2021 7:14 pm Operator: CSD
Sample : K2109142-002 Inst : MS14
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 28 15:28 2021 Quant Results File: temp.res

Method : J:\MS14\METHODS\SIM\072621ALK.M (RTE Integrator)
Title : PAHS and ALKYLATED HOMOLOGS
Last Update : Sat Aug 28 15:09:01 2021
Response via : Multiple Level Calibration



TIC: 0824F011.D

(5) 1-Methylnaphthalene (T)

5.26min 4.37ng/ml m

response 535

Ion	Exp%	Act%
142.00	100	100
141.00	82.70	101.27
115.00	32.40	85.77#
0.00	0.00	0.00

Manual Integration:

After

Wrong peak

08/28/21

1st 08/17/21
2nd 08/19/21

Validation Report

Data File: J:\MS14\DATA\081321\0813F003.D\
Lab ID: KQ2115373-03
RunType: MB
Matrix: Water

Date Acquired: 8/13/21 11:24:00
Batch ID: 735140
Analysis Method: 8270D/PAH SIM

Validations

Validation Categories	Pass	Fail
Analytical Hold Time	X	
ICAL Analyte Recovery	X	
Second Source ICAL Verification	X	
Continuing Calibration Recovery	X	
Internal Standards	X	
Surrogates	X	
Std MRL Unsupported by ICAL	X	
Above Highest ICAL Level	X	

Primary Review: _____

Printed: 8/17/21 17:34
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Secondary Review: _____

1st 08/17/21
2nd 08/19/21

Quantitation Report

Data File:	J:\MS14\DATA\081321\0813F003.D\	**Instrument:**	K-MS-14
Acqu Date:	8/13/21 11:24:00	**Vial:**	3
Run Type:	MB	**Dilution:**	1
Lab ID:	KQ2115373-03	**Raw Units:**	ng/mL

Bottle ID:		**Tier:**	II	**Matrix:**	Water
Prod Code:	PAH SIM	**Collect Date:**	8/5/21	**Receive Date:**	8/6/21

Analysis Lot:	735140	**Prep Lot:**	385208	**Report Group:**	KQ2115373
Analysis	8270D	**Prep Method:**	EPA 3511		
		Prep Date:	8/12/21		

Title:	Polycyclic Aromatic Hydrocarbons by GC/MS SIM	**Calibration ID:**	KC2100398
		Report List ID:	18998

Internal Standard Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	Area Criteria
Acenaphthene-d10	6.10		28832	200.00	OK
Chrysene-d12	9.76		48323	200.00	OK
Naphthalene-d8	4.48	-0.01	51447	200.00	OK
Perylene-d12	12.54		57694	200.00	OK
Phenanthrene-d10	7.34		56700	200.00	OK

Surrogate Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	% Rec	% Rec Criteria	Rpt?
Fluoranthene-d10	8.33		295929	871.13	87	42 - 133	Y
Fluorene-d10	6.54		156176	898.21	90	42 - 131	Y
Terphenyl-d14	8.66		192442	745.26	75	32 - 129	Y

Target Compounds

Final Conc.Units: ug/L

Parameter Name	RT	RT Dev	Response	Solution Conc	Final Conc	Q	Rpt?
2-Methylnaphthalene	5.18	-0.01	65	0.39	0.0017	J	Y
Acenaphthene	0.00		0	0.00	0	U	Y
Acenaphthylene	0.00		0	0.00	0	U	Y
Anthracene	0.00		0	0.00	0	U	Y
Benz(a)anthracene	0.00		0	0.00	0	U	Y
Benzo(a)pyrene	0.00		0	0.00	0	U	Y
Benzo(b)fluoranthene	0.00		0	0.00	0	U	Y
Benzo(g,h,i)perylene	0.00		0	0.00	0	U	Y
Benzo(k)fluoranthene	0.00		0	0.00	0	U	Y
Chrysene	0.00		0	0.00	0	U	Y
Dibenz(a,h)anthracene	0.00		0	0.00	0	U	Y
Dibenzofuran	0.00		0	0.00	0	U	Y
Fluoranthene	0.00		0	0.00	0	U	Y

1st 08/17/21

2nd 08/19/21

Data File:	J:\MS14\DATA\081321\0813F003.D\	**Instrument:**	K-MS-14
Acqu Date:	8/13/21 11:24:00	**Vial:**	3
Run Type:	MB	**Dilution:**	1
Lab ID:	KQ2115373-03	**Raw Units:**	ng/mL

Target Compounds

Final Conc.Units: ug/L

Parameter Name	RT	RT Dev	Response	Solution Conc	Final Conc	Q	Rpt?
Fluorene	0.00		0	0.00	0	U	Y
Indeno(1,2,3-cd)pyrene	0.00		0	0.00	0	U	Y
Naphthalene	4.51		141	0.55	0.0024	J	Y
Phenanthrene	7.36		157	0.48	0.0021	J	Y
Pyrene	0.00		0	0.00	0	U	Y

Prep Amount:	450 mL	**Dilution:**	1
Prep Final Amount:	2.00 mL	**Basis Factor:**	100.00

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Printed: 8/17/21 17:34

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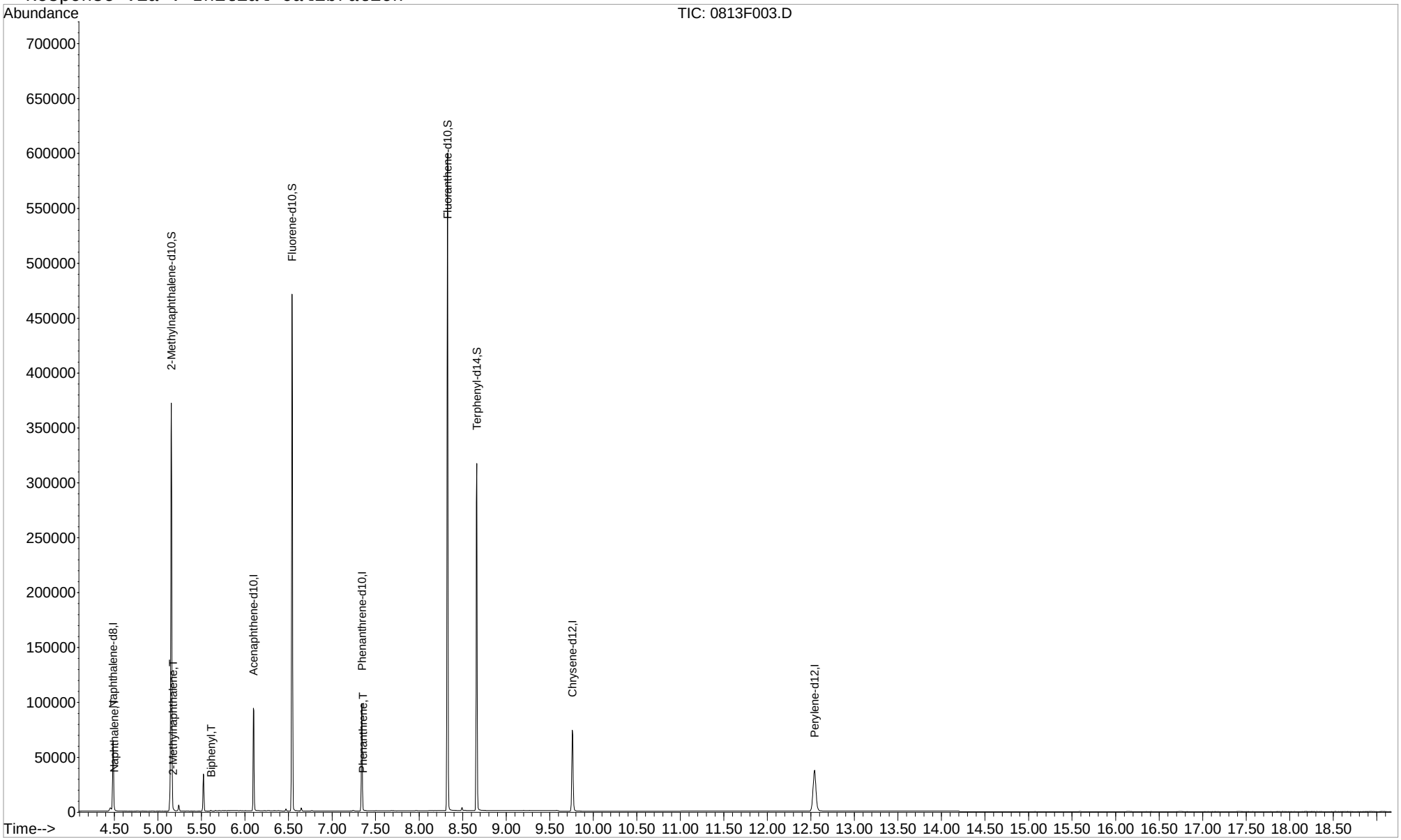
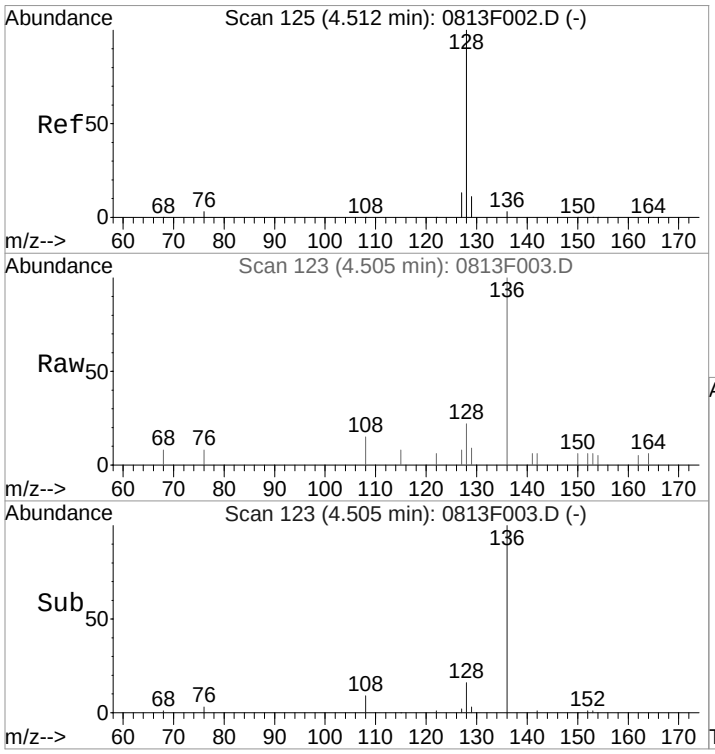
1st 08/17/21
2nd 08/19/21

Data File : J:\MS14\DATA\081321\0813F003.D Vial: 3
Acq On : 13 Aug 2021 11:24 am Operator: E.Bruno
Sample : KQ2115373-03 MB Inst : MS14
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 17 16:43 2021 Quant Results File: 072621ALK.RES

Method : J:\MS14\METHODS\SIM\072621ALK.M (RTE Integrator)
Title : PAHS and ALKYLATED HOMOLOGS
Last Update : Mon Jul 26 23:01:28 2021
Response via : Initial Calibration



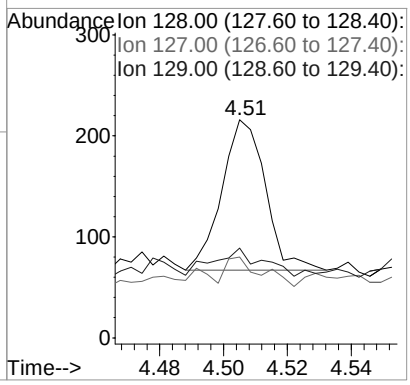
1st 08/17/21
2nd 08/19/21

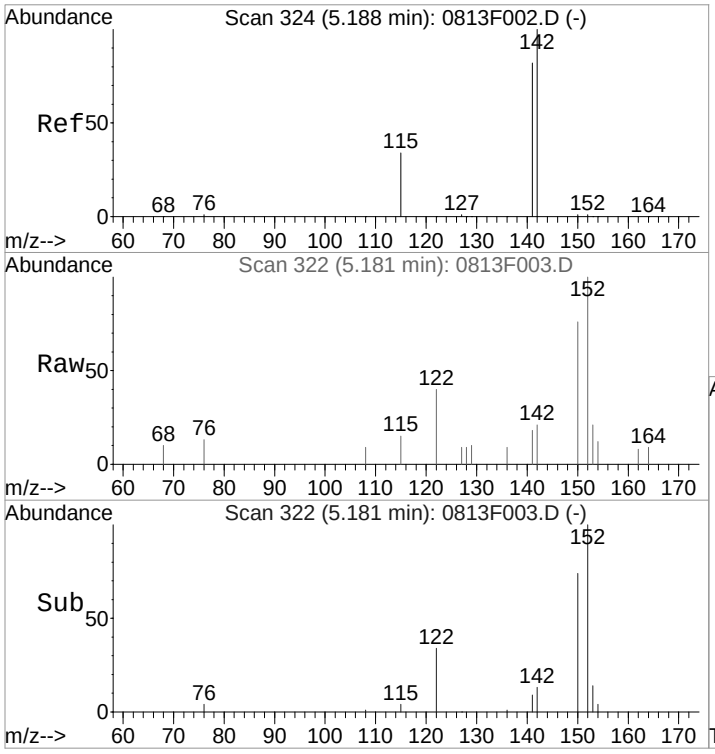


#2
Naphthalene
Concen: 0.55 ng/ml
RT: 4.51 min Scan# 123
Delta R.T. -0.05 min
Lab File: 0813F003.D
Acq: 13 Aug 2021 11:24 am

Tgt Ion:128 Resp: 141

Ion	Ratio	Lower	Upper
128	100		
127	15.4	0.0	42.0
129	18.1	0.0	40.9

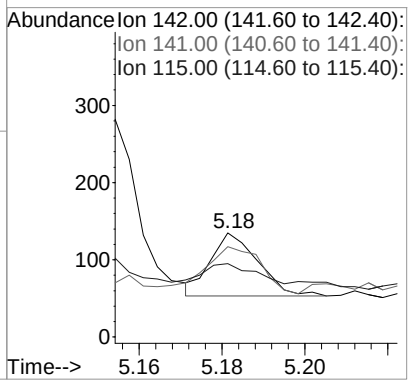




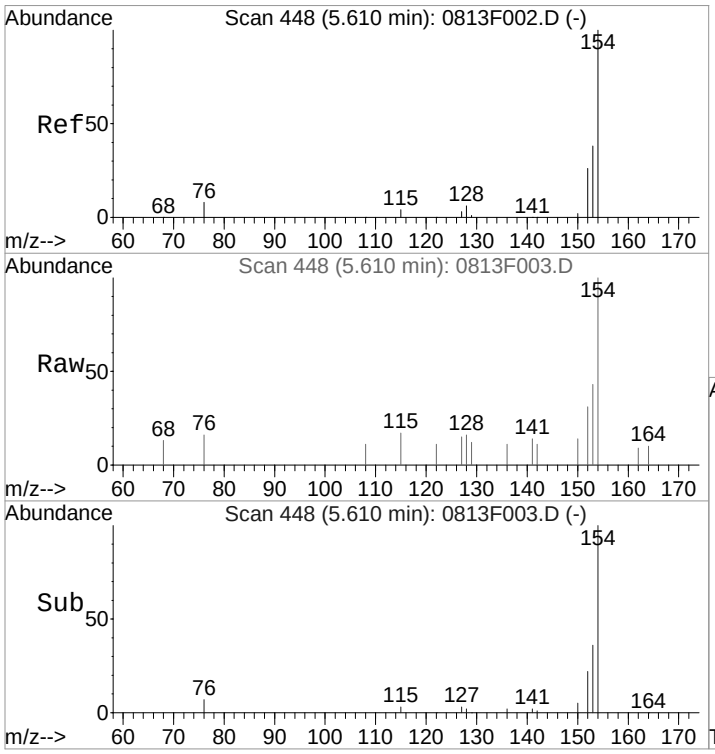
#4
2-Methylnaphthalene
Concen: 0.39 ng/ml
RT: 5.18 min Scan# 322
Delta R.T. -0.04 min
Lab File: 0813F003.D
Acq: 13 Aug 2021 11:24 am

Tgt Ion:142 Resp: 65

Ion	Ratio	Lower	Upper
142	100		
141	58.5	49.2	109.2
115	29.3	0.0	58.9



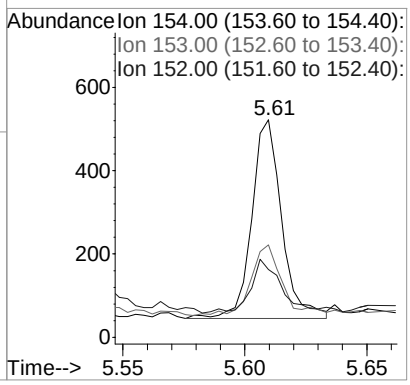
1st 08/17/21
2nd 08/19/21

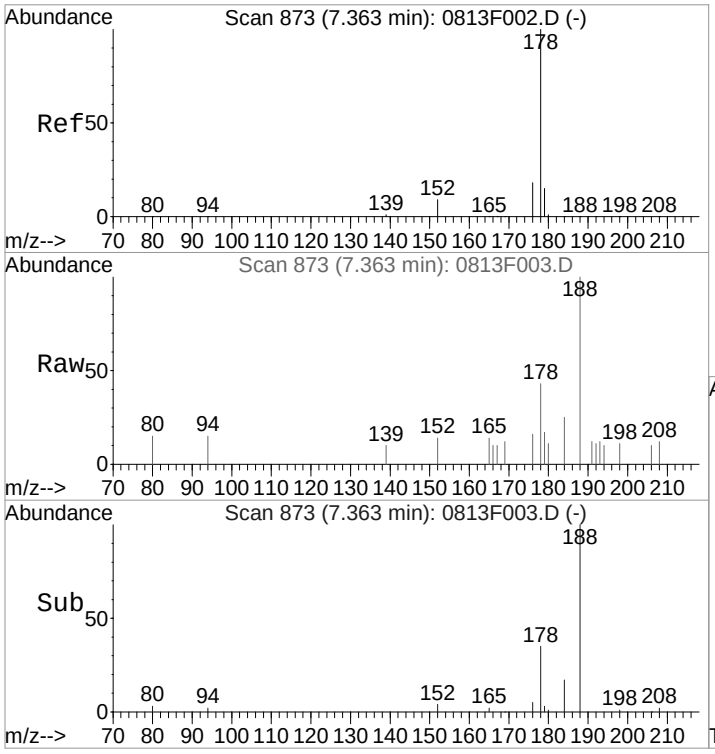


#6
Biphenyl
Concen: 1.63 ng/ml
RT: 5.61 min Scan# 448
Delta R.T. -0.03 min
Lab File: 0813F003.D
Acq: 13 Aug 2021 11:24 am

Tgt Ion:154 Resp: 408

Ion	Ratio	Lower	Upper
154	100		
153	35.2	7.8	67.8
152	19.3	0.0	56.8

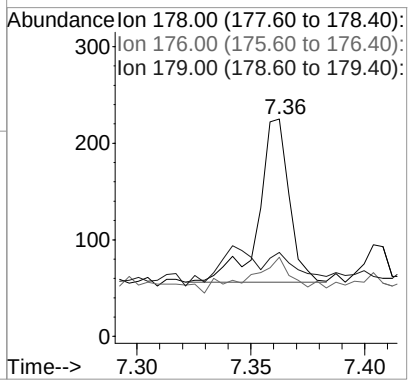




#24
Phenanthrene
Concen: 0.48 ng/ml
RT: 7.36 min Scan# 873
Delta R.T. -0.02 min
Lab File: 0813F003.D
Acq: 13 Aug 2021 11:24 am

Tgt Ion:178 Resp: 157

Ion	Ratio	Lower	Upper
178	100		
176	18.9	0.0	47.3
179	20.7	0.0	45.2



Quantitation Report (QT Reviewed)

1st 08/17/21
2nd 08/19/21

Data File : J:\MS14\DATA\081321\0813F003.D Vial: 3
Acq On : 13 Aug 2021 11:24 am Operator: E.Bruno
Sample : KQ2115373-03 MB Inst : MS14
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 17 16:42:22 2021 Quant Results File: 072621ALK.RES

Quant Method : J:\MS14\METHODS\SIM\072621ALK.M (RTE Integrator)
Title : PAHS and ALKYLATED HOMOLOGS
Last Update : Mon Jul 26 23:01:28 2021
Response via : Initial Calibration
DataAcq Meth : A_PAHAT05

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Naphthalene-d8	4.48	136	51447m	200.00	ng/ml	-0.05
12) Acenaphthene-d10	6.10	164	28832	200.00	ng/ml	-0.03
22) Phenanthrene-d10	7.34	188	56700	200.00	ng/ml	-0.02
34) Chrysene-d12	9.76	240	48323	200.00	ng/ml	-0.04
44) Perylene-d12	12.54	264	57694	200.00	ng/ml	-0.05
System Monitoring Compounds						
3) 2-Methylnaphthalene-d10	5.15	152	135354	907.53	ng/ml	-0.03
Spiked Amount 200.000			Recovery =	453.77%		
17) Fluorene-d10	6.54	176	156176	898.21	ng/ml	-0.03
Spiked Amount 200.000			Recovery =	449.11%		
33) Fluoranthene-d10	8.33	212	295929	871.13	ng/ml	-0.02
Spiked Amount 200.000			Recovery =	435.57%		
37) Terphenyl-d14	8.66	244	192442	745.26	ng/ml	-0.03
Spiked Amount 200.000			Recovery =	372.63%		
Target Compounds						Qvalue
2) Naphthalene	4.51	128	141	0.55	ng/ml	86
4) 2-Methylnaphthalene	5.18	142	65	0.39	ng/ml	83
6) Biphenyl	5.61	154	408	1.63	ng/ml	91
24) Phenanthrene	7.36	178	157	0.48	ng/ml	92

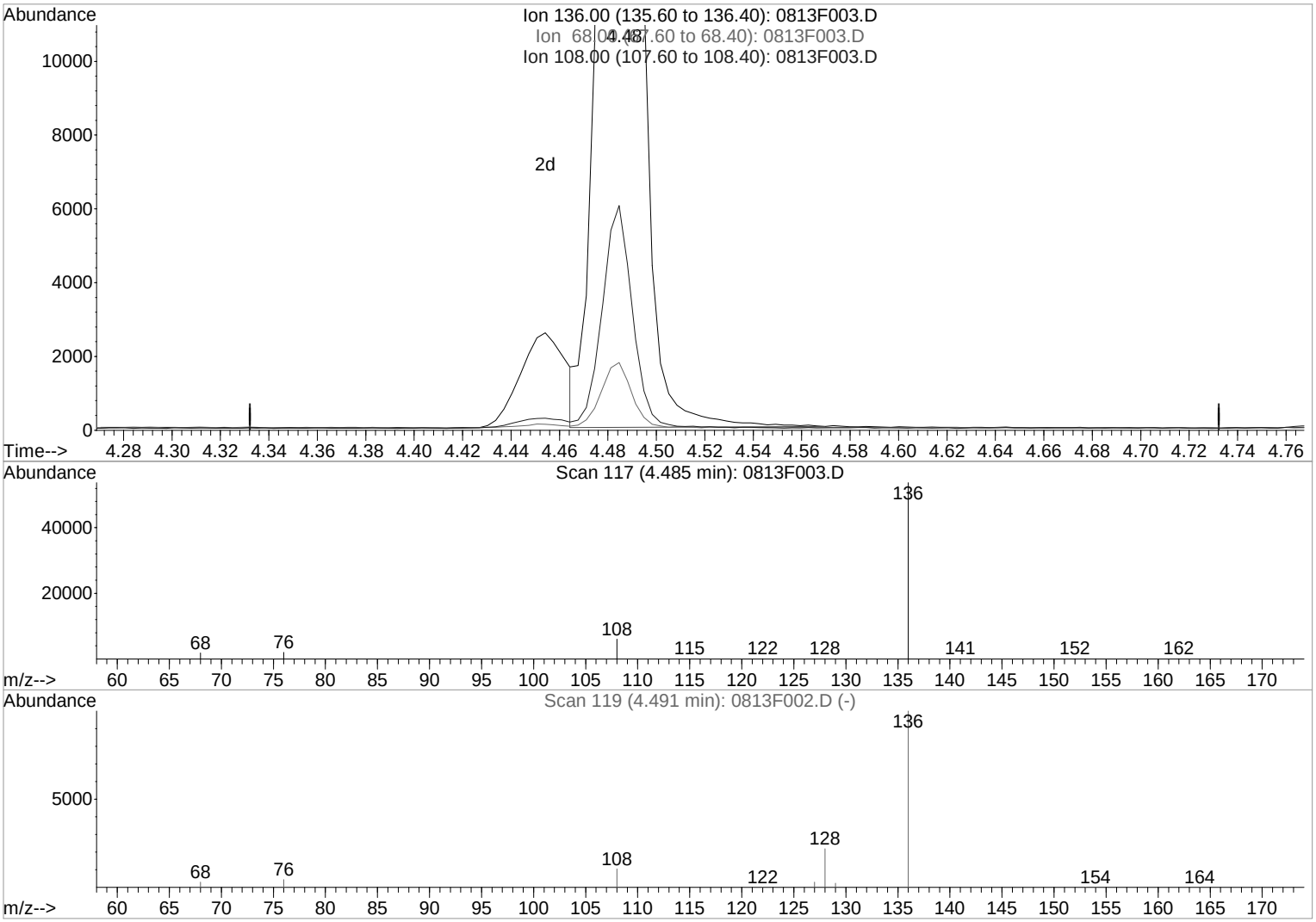
(#) = qualifier out of range (m) = manual integration

Quantitation Report (Qedit)

1st 08/17/21
2nd 08/19/21

Data File : J:\MS14\DATA\081321\0813F003.D Vial: 3
Acq On : 13 Aug 2021 11:24 am Operator: E.Bruno
Sample : KQ2115373-03 MB Inst : MS14
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 17 16:42 2021 Quant Results File: temp.res

Method : J:\MS14\METHODS\SIM\072621ALK.M (RTE Integrator)
Title : PAHS and ALKYLATED HOMOLOGS
Last Update : Mon Jul 26 23:01:28 2021
Response via : Multiple Level Calibration



TIC: 0813F003.D

(1) Naphthalene-d8 (I)

4.48min 200.00ng/ml

response 47917

Ion	Exp%	Act%
136.00	100	100
68.00	3.80	3.29
108.00	9.70	11.23
0.00	0.00	0.00

Manual Integration:

Before

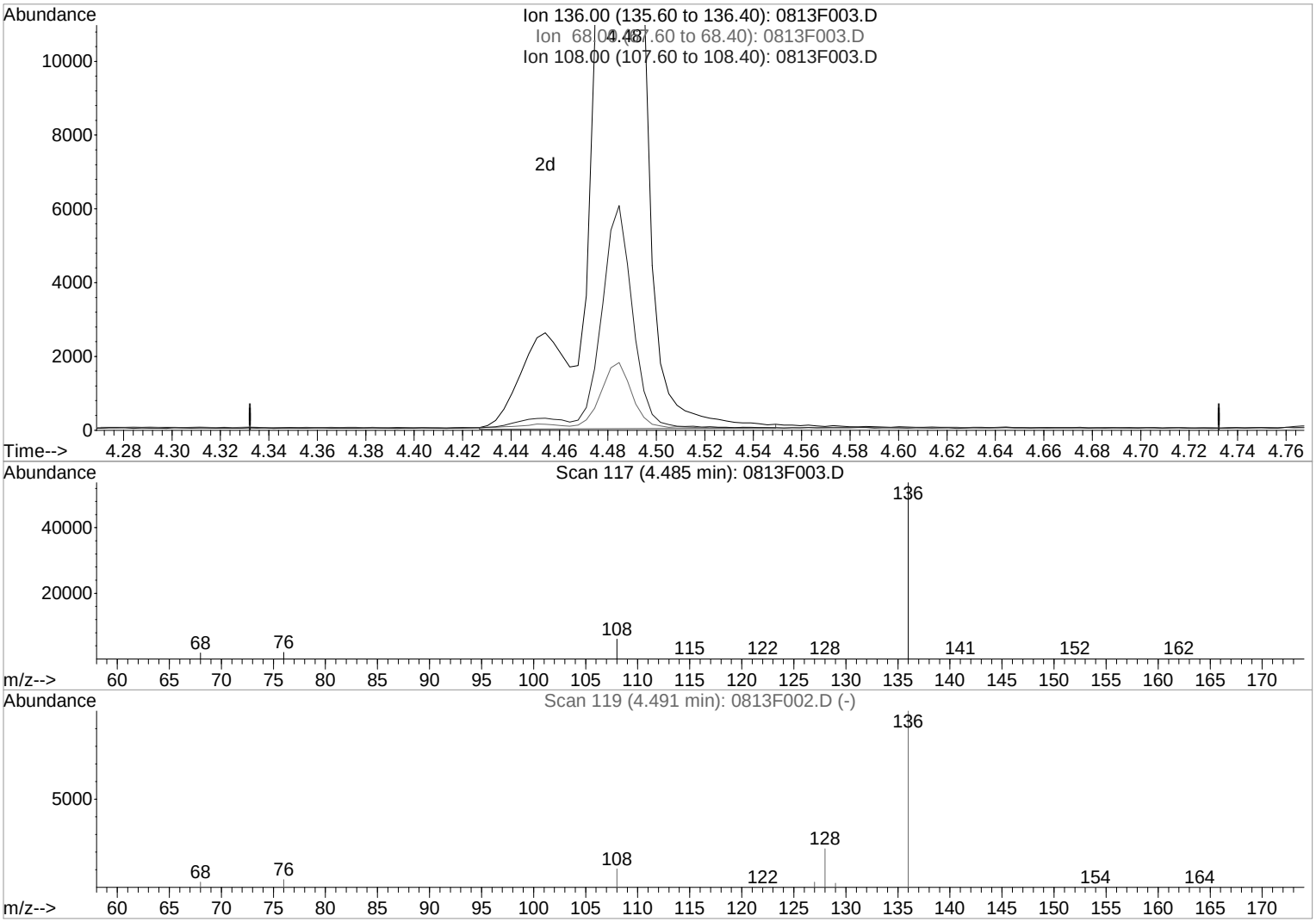
08/17/21

Quantitation Report (Qedit)

1st 08/17/21
2nd 08/19/21

Data File : J:\MS14\DATA\081321\0813F003.D Vial: 3
Acq On : 13 Aug 2021 11:24 am Operator: E.Bruno
Sample : KQ2115373-03 MB Inst : MS14
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 17 16:42 2021 Quant Results File: temp.res

Method : J:\MS14\METHODS\SIM\072621ALK.M (RTE Integrator)
Title : PAHS and ALKYLATED HOMOLOGS
Last Update : Mon Jul 26 23:01:28 2021
Response via : Multiple Level Calibration



TIC: 0813F003.D

(1) Naphthalene-d8 (I)

4.48min 200.00ng/ml m

response 51447

Ion	Exp%	Act%
136.00	100	100
68.00	3.80	3.42
108.00	9.70	11.32
0.00	0.00	0.00

Manual Integration:

After

IC-Incomplete

08/17/21

1st CO 09/09/21
2nd 09/15/21

Validation Report

Data File: J:\MS14\DATA\082421\0824F003.D\
Lab ID: KQ2115593-06
RunType: MB
Matrix: Soil

Date Acquired: 8/24/21 15:11:00
Batch ID: 736775
Analysis Method: 8270D/PAH SIM

Validations

Validation Categories	Pass	Fail
Analytical Hold Time	X	
ICAL Analyte Recovery	X	
Second Source ICAL Verification	X	
Continuing Calibration Recovery	X	
Internal Standards	X	
Surrogates	X	
Std MRL Unsupported by ICAL	X	
Above Highest ICAL Level	X	

Primary Review: _____

Printed: 9/3/21 11:15
\\alprews001\starlims$\LIMSReps\QuantValidation.rpt

Secondary Review: _____

1st CO 09/09/21
2nd 09/15/21

Quantitation Report

Data File:	J:\MS14\DATA\082421\0824F003.D\	**Instrument:**	K-MS-14
Acqu Date:	8/24/21 15:11:00	**Vial:**	3
Run Type:	MB	**Dilution:**	1
Lab ID:	KQ2115593-06	**Raw Units:**	ng/mL

Bottle ID:		**Tier:**	IV	**Matrix:**	Soil
Prod Code:	PAH SIM	**Collect Date:**	8/3/21	**Receive Date:**	8/4/21

Analysis Lot:	736775	**Prep Lot:**	385361	**Report Group:**	KQ2115593
Analysis	8270D	**Prep Method:**	EPA 3546		
		Prep Date:	8/13/21		

Title:	Polycyclic Aromatic Hydrocarbons by GC/MS SIM	**Calibration ID:**	KC2100398
		Report List ID:	18998

Internal Standard Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	Area Criteria
Acenaphthene-d10	6.09		26910	200.00	OK
Chrysene-d12	9.75		29994	200.00	OK
Naphthalene-d8	4.47	-0.01	45046	200.00	OK
Perylene-d12	12.52		30050	200.00	OK
Phenanthrene-d10	7.33		52330	200.00	OK

Surrogate Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	% Rec	% Rec Criteria	Rpt?
Fluoranthene-d10	8.32		48105	153.43	77	38 - 104	Y
Fluorene-d10	6.53		25862	159.36	80	39 - 109	Y
Terphenyl-d14	8.65		36045	224.89	112	38 - 113	Y

Target Compounds

Final Conc.Units: ug/Kg

Parameter Name	RT	RT Dev	Response	Solution Conc	Final Conc	Q	Rpt?
2-Methylnaphthalene	5.17	-0.01	95	0.66	0.61	J	Y
Acenaphthene	6.11	-0.01	266	1.63	1.5	J	Y
Acenaphthylene	0.00		0	0.00	0	U	Y
Anthracene	7.40		168	0.67	0.62	J	Y
Benz(a)anthracene	0.00		0	0.00	0	U	Y
Benzo(a)pyrene	0.00		0	0.00	0	U	Y
Benzo(b)fluoranthene	0.00		0	0.00	0	U	Y
Benzo(g,h,i)perylene	0.00		0	0.00	0	U	Y
Benzo(k)fluoranthene	0.00		0	0.00	0	U	Y
Chrysene	0.00		0	0.00	0	U	Y
Dibenz(a,h)anthracene	0.00		0	0.00	0	U	Y
Dibenzofuran	6.27		80	0.33	0.30	U	Y
Fluoranthene	8.33		230	0.67	0.62	U	Y

1st CO 09/09/21

2nd 09/15/21

Data File:	J:\MS14\DATA\082421\0824F003.D\	**Instrument:**	K-MS-14
Acqu Date:	8/24/21 15:11:00	**Vial:**	3
Run Type:	MB	**Dilution:**	1
Lab ID:	KQ2115593-06	**Raw Units:**	ng/mL

Target Compounds

Final Conc.Units: ug/Kg

Parameter Name	RT	RT Dev	Response	Solution Conc	Final Conc	Q	Rpt?
Fluorene	6.56		244	1.29	1.2	J	Y
Indeno(1,2,3-cd)pyrene	0.00		0	0.00	0	U	Y
Naphthalene	4.49	-0.01	363	1.61	1.5	J	Y
Phenanthrene	7.35		911	3.05	2.8	J	Y
Pyrene	8.51		275	1.18	1.1	J	Y

Prep Amount:	10.8230 g	**Dilution:**	1
Prep Final Amount:	10.00 mL	**Basis Factor:**	100.00

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Printed: 9/3/21 11:15

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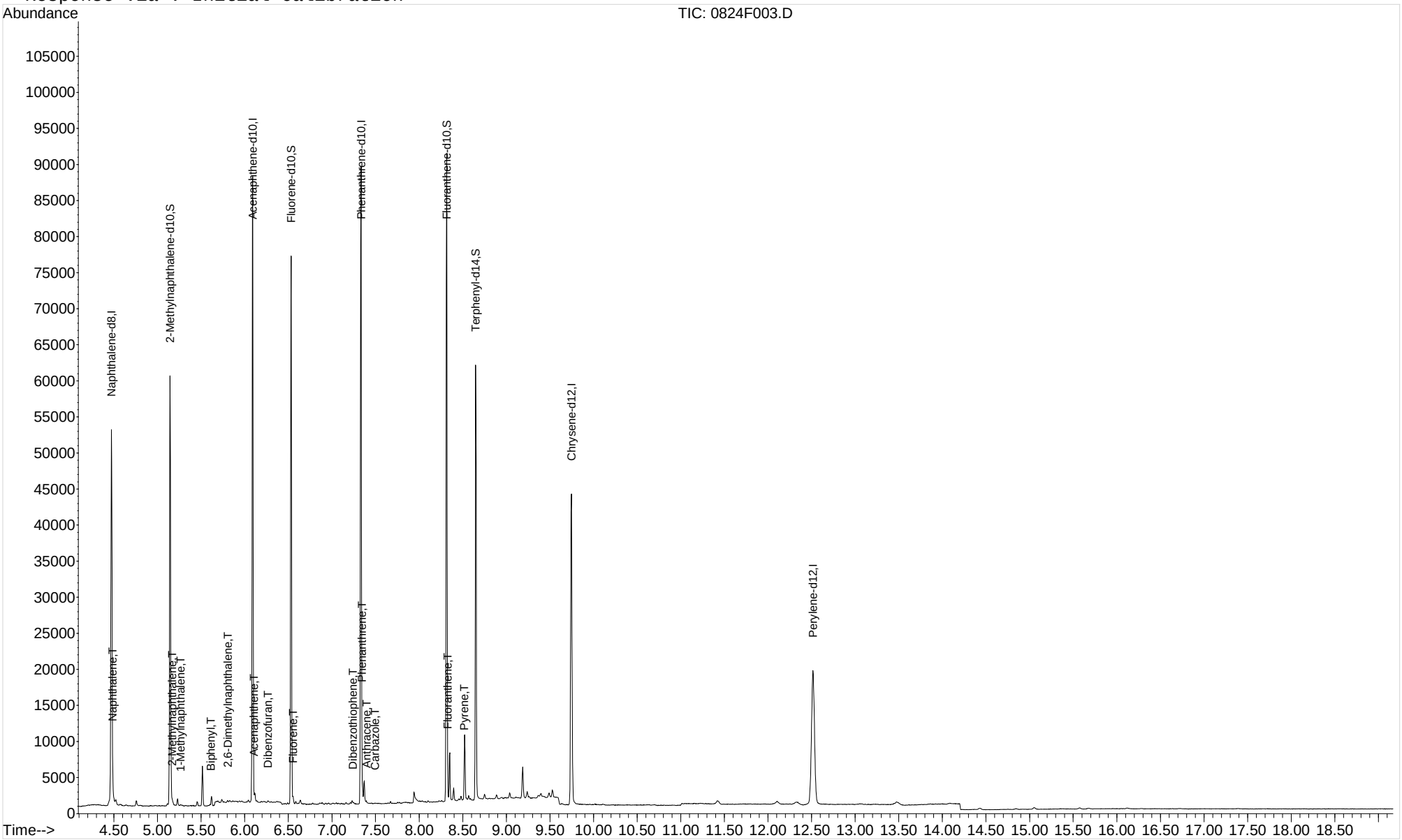
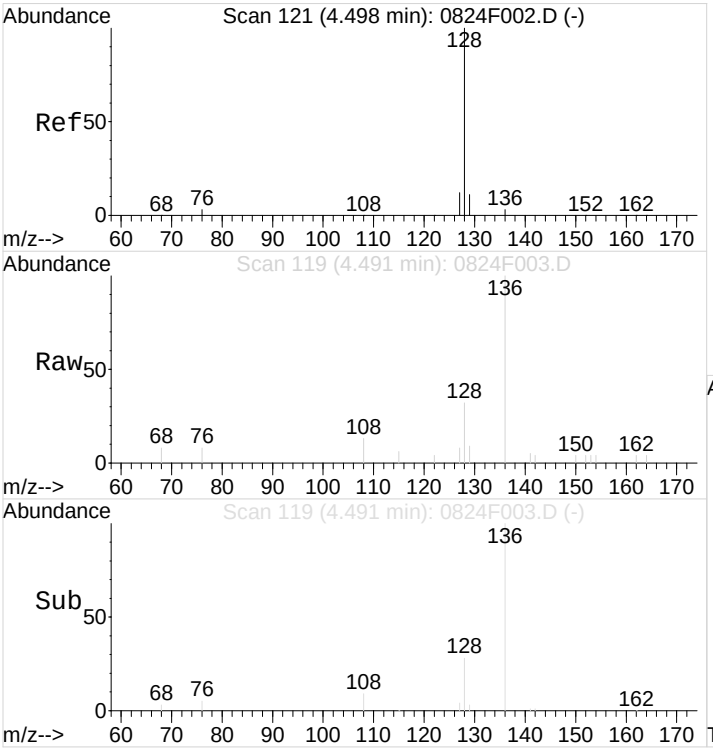
1st 09/09/21
2nd 09/15/21

Data File : J:\MS14\DATA\082421\0824F003.D Vial: 3
Acq On : 24 Aug 2021 3:11 pm Operator: CSD
Sample : KQ2115593-06 MB Inst : MS14
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 28 15:18 2021 Quant Results File: 072621ALK.RES

Method : J:\MS14\METHODS\SIM\072621ALK.M (RTE Integrator)
Title : PAHS and ALKYLATED HOMOLOGS
Last Update : Sat Aug 28 15:09:01 2021
Response via : Initial Calibration



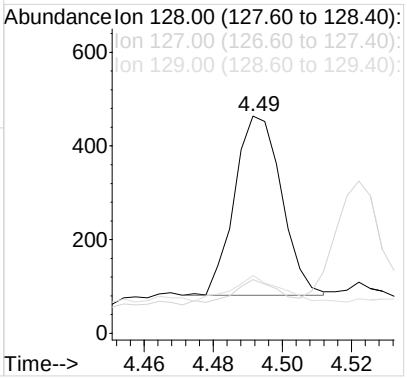
1st CO 09/09/21
2nd 09/15/21

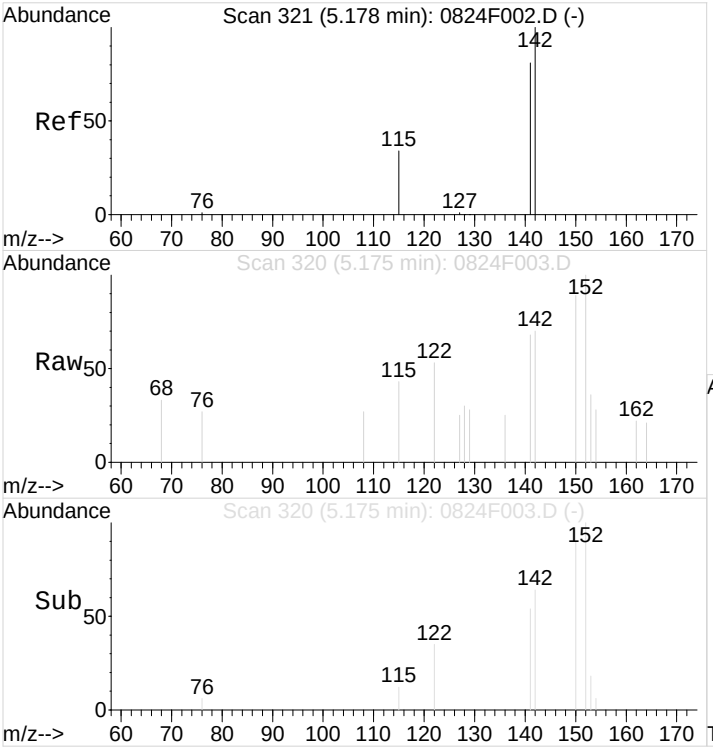


#2
Naphthalene
Concen: 1.61 ng/ml
RT: 4.49 min Scan# 119
Delta R.T. -0.06 min
Lab File: 0824F003.D
Acq: 24 Aug 2021 3:11 pm

Tgt Ion:128 Resp: 363

Ion	Ratio	Lower	Upper
128	100		
127	14.1	0.0	42.0
129	13.8	0.0	40.9

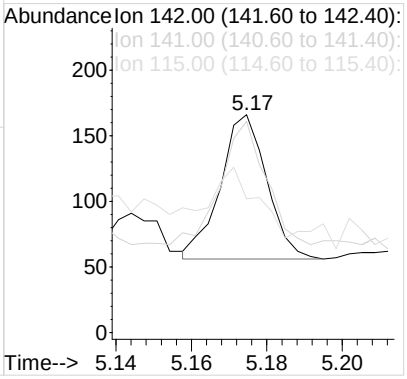


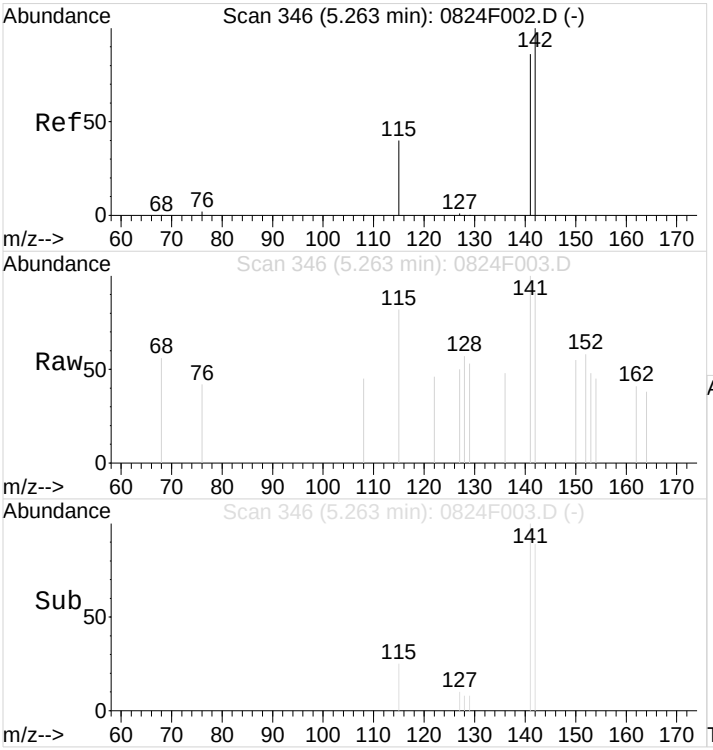


#4
2-Methylnaphthalene
Concen: 0.66 ng/ml
RT: 5.17 min Scan# 320
Delta R.T. -0.04 min
Lab File: 0824F003.D
Acq: 24 Aug 2021 3:11 pm

Tgt Ion:142 Resp: 95

Ion	Ratio	Lower	Upper
142	100		
141	82.7	49.2	109.2
115	17.3	0.0	58.9

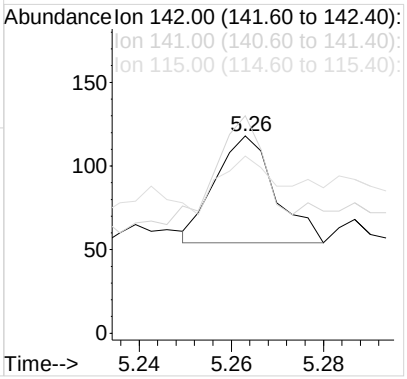


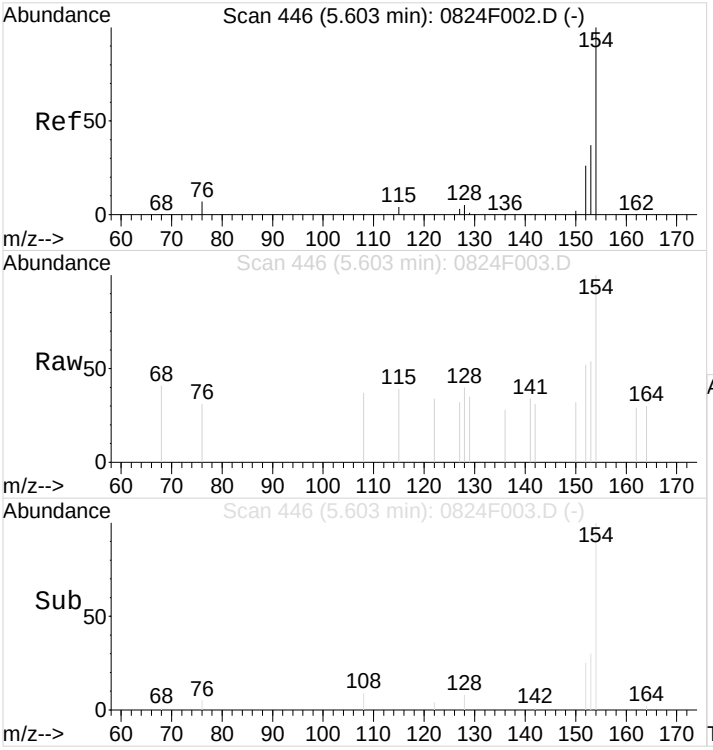


#5
1-Methylnaphthalene
Concen: 0.43 ng/ml
RT: 5.26 min Scan# 346
Delta R.T. -0.04 min
Lab File: 0824F003.D
Acq: 24 Aug 2021 3:11 pm

Tgt Ion:142 Resp: 58

Ion	Ratio	Lower	Upper
142	100		
141	89.1	52.7	112.7
115	43.8	2.4	62.4

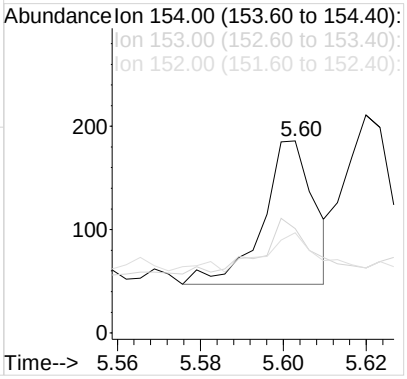




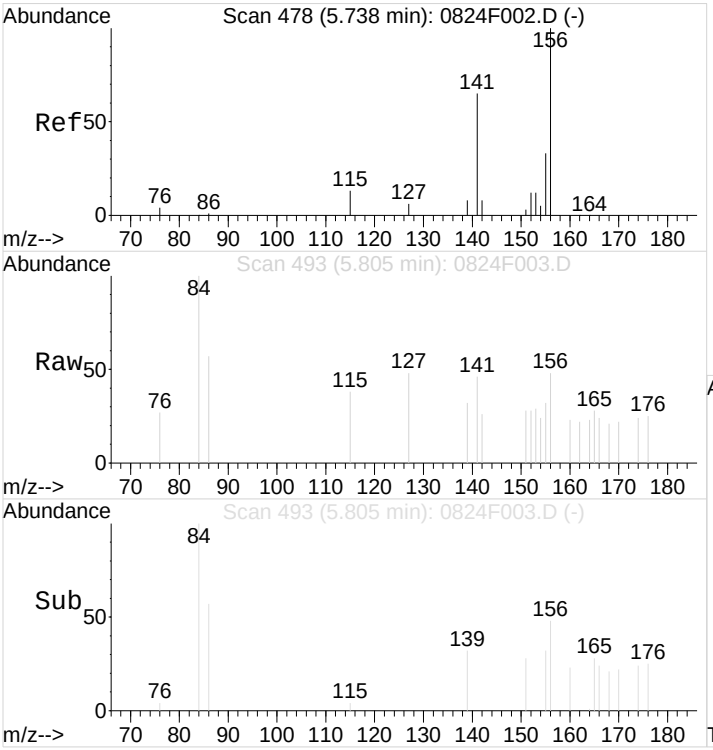
#6
Biphenyl
Concen: 0.55 ng/ml
RT: 5.60 min Scan# 446
Delta R.T. -0.04 min
Lab File: 0824F003.D
Acq: 24 Aug 2021 3:11 pm

Tgt Ion:154 Resp: 120

Ion	Ratio	Lower	Upper
154	100		
153	31.7	7.8	67.8
152	23.7	0.0	56.8



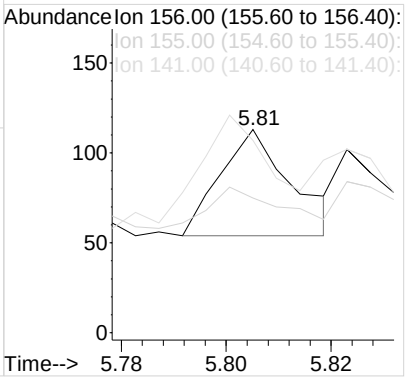
1st 09/09/21
2nd 09/15/21

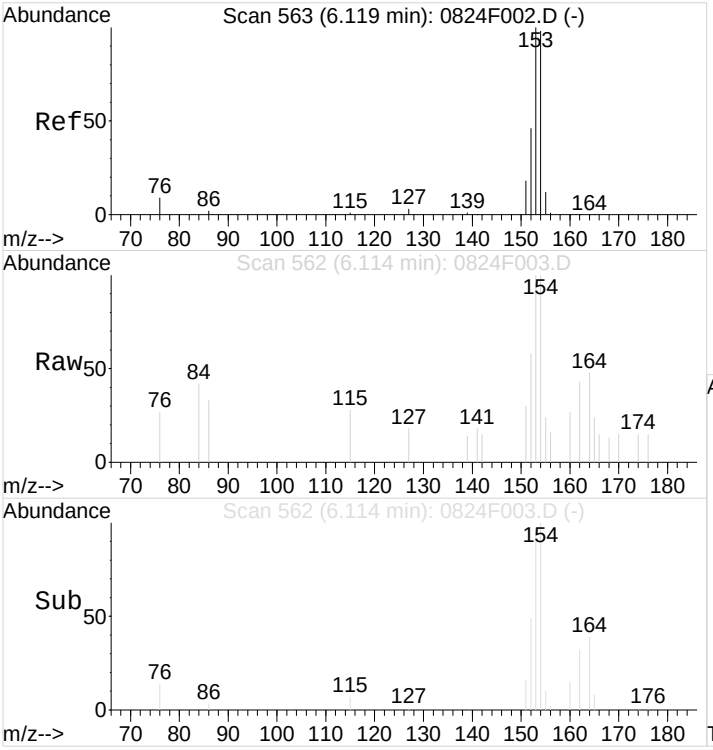


#7
2,6-Dimethylnaphthalene
Concen: 0.42 ng/ml
RT: 5.81 min Scan# 493
Delta R.T. 0.03 min
Lab File: 0824F003.D
Acq: 24 Aug 2021 3:11 pm

Tgt Ion:156 Resp: 55

Ion	Ratio	Lower	Upper
156	100		
155	23.7	1.6	61.6
141	49.2	31.3	91.3

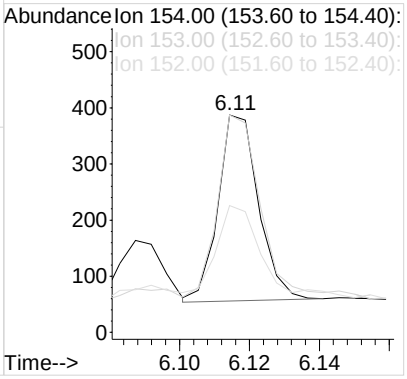




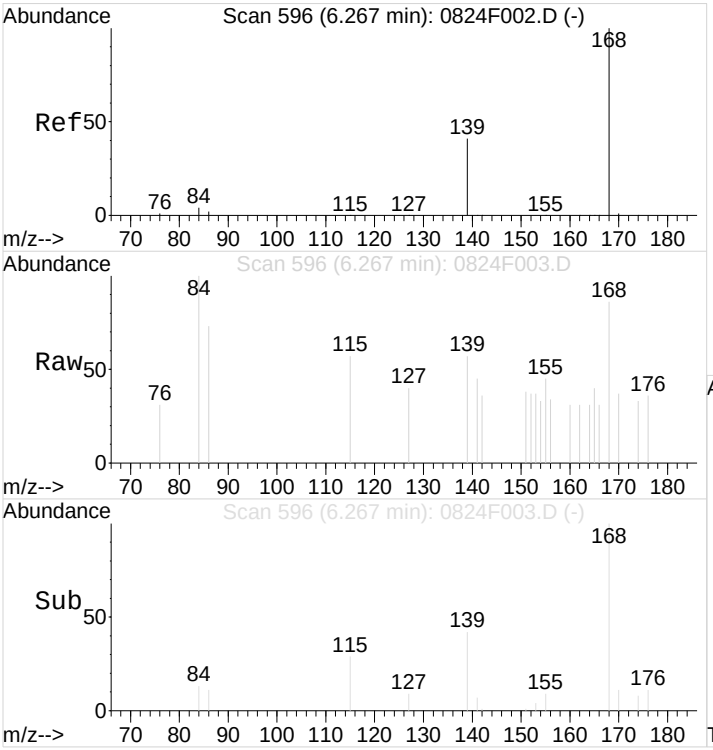
#14
Acenaphthene
Concen: 1.63 ng/ml
RT: 6.11 min Scan# 562
Delta R.T. -0.04 min
Lab File: 0824F003.D
Acq: 24 Aug 2021 3:11 pm

Tgt Ion:154 Resp: 266

Ion	Ratio	Lower	Upper
154	100		
153	99.1	66.6	126.6
152	47.4	14.1	74.1



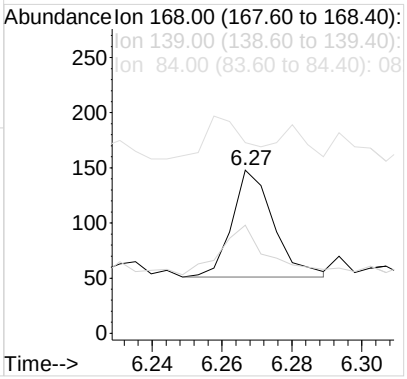
1st CO 09/09/21
2nd 09/15/21

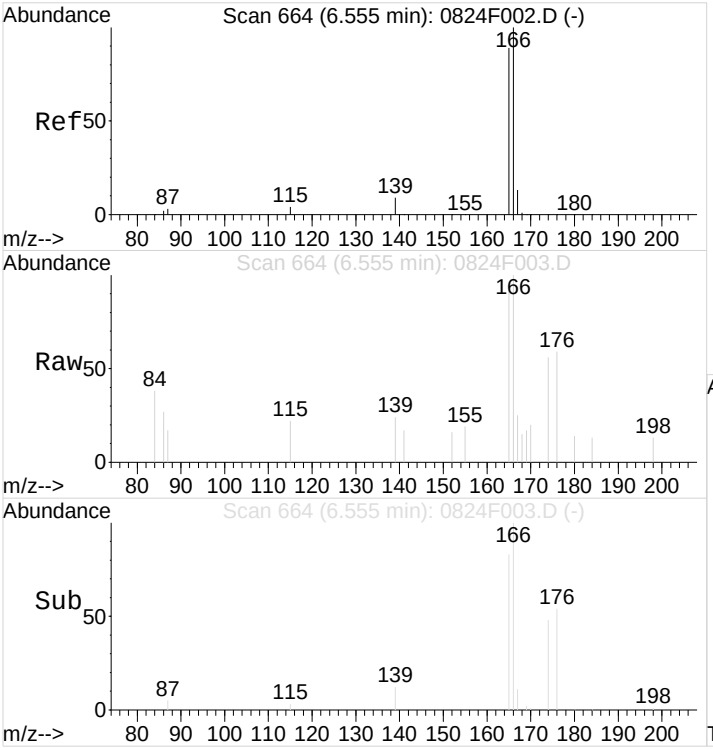


#15
Dibenzofuran
Concen: 0.33 ng/ml
RT: 6.27 min Scan# 596
Delta R.T. -0.04 min
Lab File: 0824F003.D
Acq: 24 Aug 2021 3:11 pm

Tgt Ion:168 Resp: 80

Ion	Ratio	Lower	Upper
168	100		
139	46.4	0.0	54.6
84	13.4	0.0	32.5

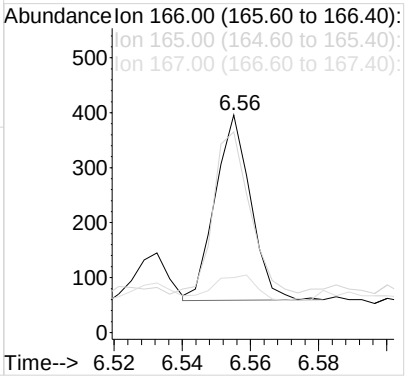




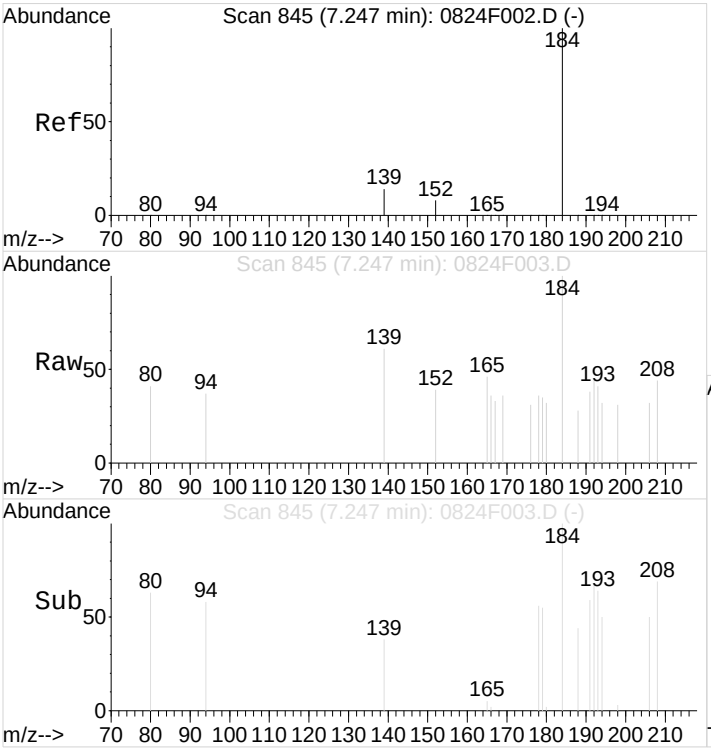
#18
Fluorene
Concen: 1.29 ng/ml
RT: 6.56 min Scan# 664
Delta R.T. -0.03 min
Lab File: 0824F003.D
Acq: 24 Aug 2021 3:11 pm

Tgt Ion:166 Resp: 244

Ion	Ratio	Lower	Upper
166	100		
165	85.1	56.6	116.6
167	9.8	0.0	43.3



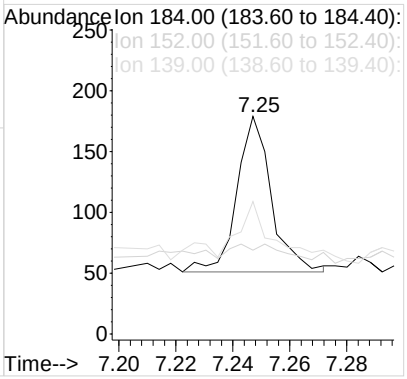
1st 09/09/21
2nd 09/15/21

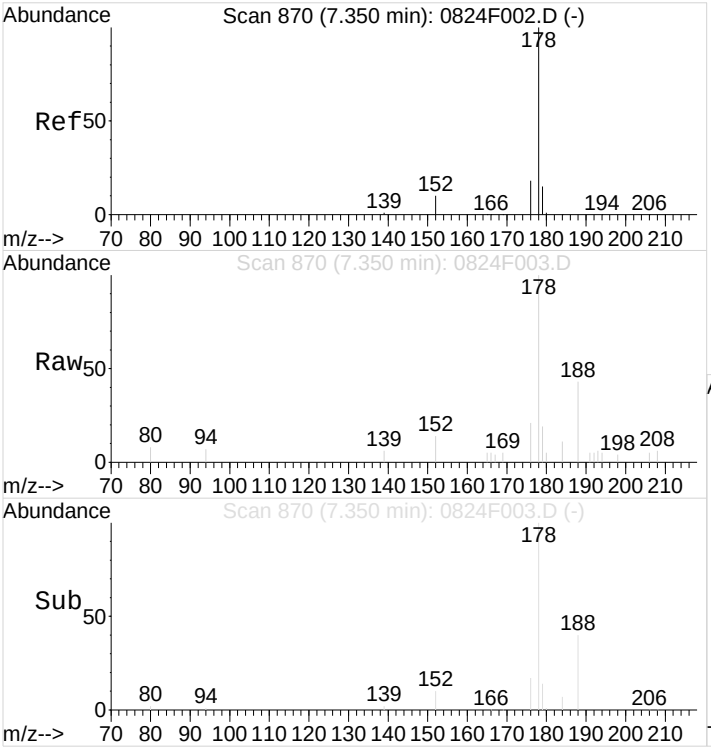


#23
Dibenzothiophene
Concen: 0.39 ng/ml
RT: 7.25 min Scan# 845
Delta R.T. -0.03 min
Lab File: 0824F003.D
Acq: 24 Aug 2021 3:11 pm

Tgt Ion:184 Resp: 108

Ion	Ratio	Lower	Upper
184	100		
152	1.6	0.0	36.6
139	31.3	0.0	41.2

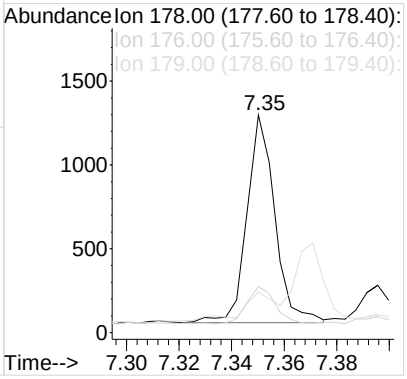




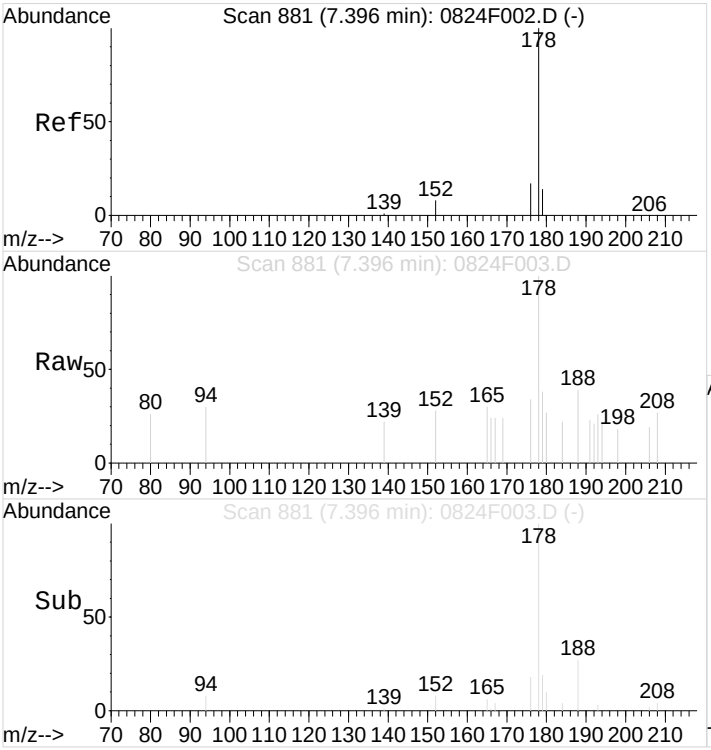
#24
Phenanthrene
Concen: 3.05 ng/ml
RT: 7.35 min Scan# 870
Delta R.T. -0.03 min
Lab File: 0824F003.D
Acq: 24 Aug 2021 3:11 pm

Tgt Ion:178 Resp: 911

Ion	Ratio	Lower	Upper
178	100		
176	17.8	0.0	47.3
179	13.9	0.0	45.2



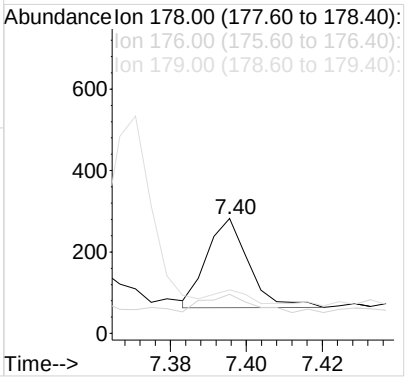
1st CO 09/09/21
2nd 09/15/21

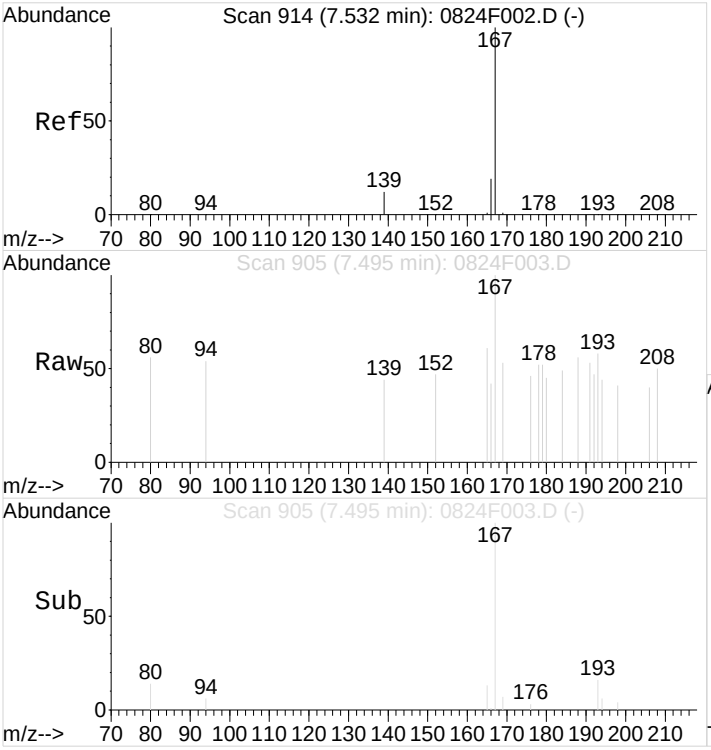


#25
Anthracene
Concen: 0.67 ng/ml
RT: 7.40 min Scan# 881
Delta R.T. -0.03 min
Lab File: 0824F003.D
Acq: 24 Aug 2021 3:11 pm

Tgt Ion:178 Resp: 168

Ion	Ratio	Lower	Upper
178	100		
176	20.6	0.0	46.9
179	17.9	0.0	45.1

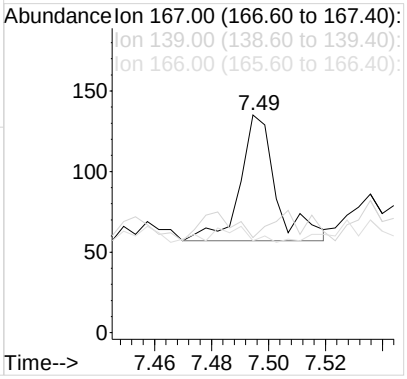




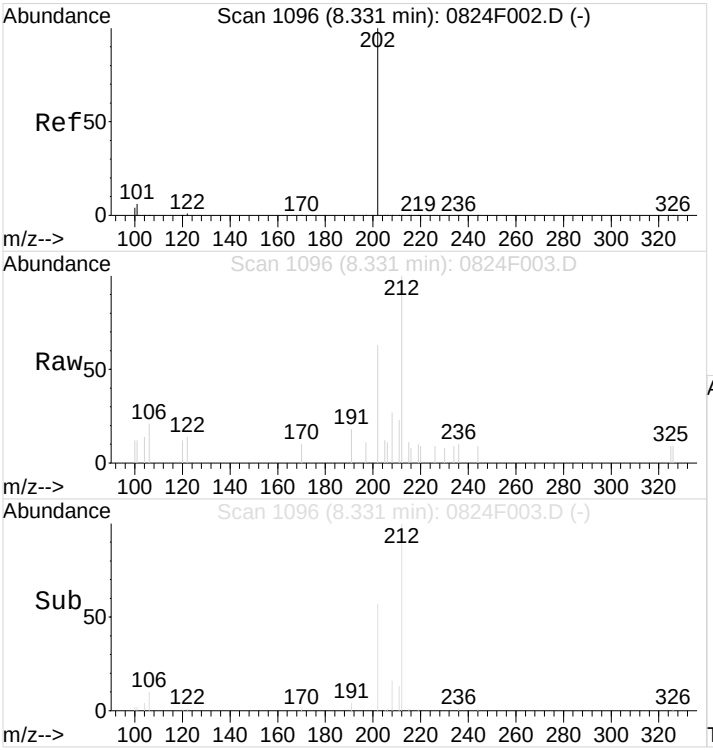
#26
Carbazole
Concen: 0.27 ng/ml
RT: 7.49 min Scan# 905
Delta R.T. -0.07 min
Lab File: 0824F003.D
Acq: 24 Aug 2021 3:11 pm

Tgt Ion:167 Resp: 69

Ion	Ratio	Lower	Upper
167	100		
139	2.6	0.0	42.2
166	0.0	0.0	48.6



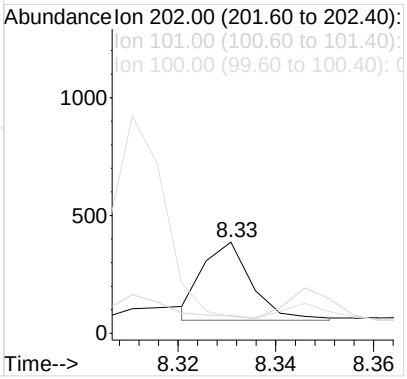
1st 09/09/21
2nd 09/15/21

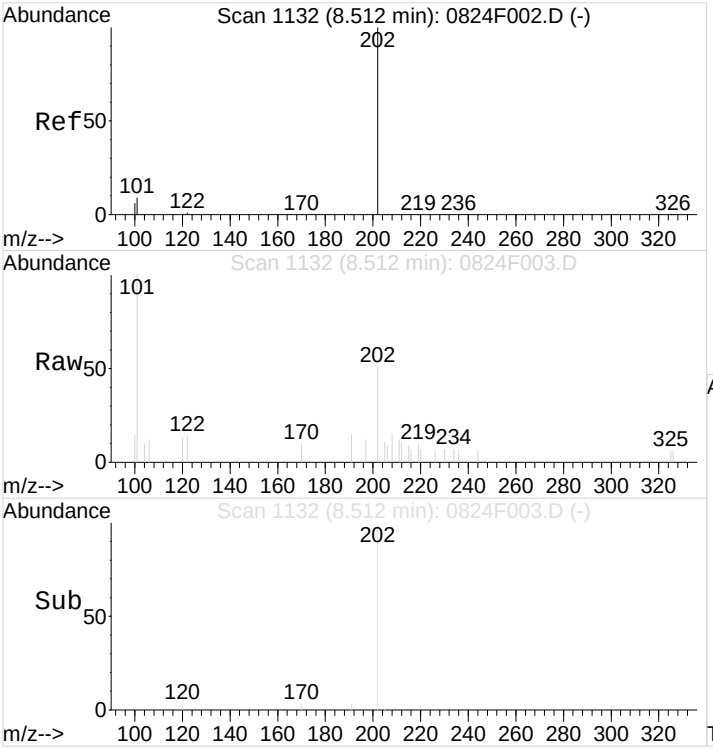


#32
Fluoranthene
Concen: 0.67 ng/ml m
RT: 8.33 min Scan# 1096
Delta R.T. -0.03 min
Lab File: 0824F003.D
Acq: 24 Aug 2021 3:11 pm

Tgt Ion:202 Resp: 230

Ion	Ratio	Lower	Upper
202	100		
101	19.6	0.0	38.4
100	18.3	0.0	35.8

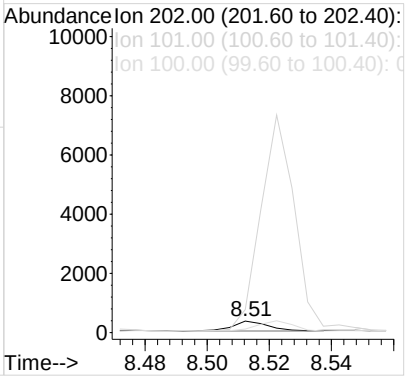




#35
Pyrene
Concen: 1.18 ng/ml
RT: 8.51 min Scan# 1132
Delta R.T. -0.04 min
Lab File: 0824F003.D
Acq: 24 Aug 2021 3:11 pm

Tgt Ion:202 Resp: 275

Ion	Ratio	Lower	Upper
202	100		
101	210.9	0.0	38.0#
100	18.3	0.0	35.6



1st CO 09/09/21
2nd 09/15/21

Quantitation Report (Not Reviewed)

Data File : J:\MS14\DATA\082421\0824F003.D Vial: 3
Acq On : 24 Aug 2021 3:11 pm Operator: CSD
Sample : KQ2115593-06 MB Inst : MS14
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 28 15:09:34 2021 Quant Results File: 072621ALK.RES

Quant Method : J:\MS14\METHODS\SIM\072621ALK.M (RTE Integrator)
Title : PAHS and ALKYLATED HOMOLOGS
Last Update : Tue Aug 24 11:05:11 2021
Response via : Initial Calibration
DataAcq Meth : A_PAHAT05

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Naphthalene-d8	4.47	136	45046	200.00	ng/ml	-0.06
12) Acenaphthene-d10	6.09	164	26910	200.00	ng/ml	-0.04
22) Phenanthrene-d10	7.33	188	52330	200.00	ng/ml	-0.03
34) Chrysene-d12	9.75	240	29994	200.00	ng/ml	-0.05
44) Perylene-d12	12.52	264	30050	200.00	ng/ml	-0.08
System Monitoring Compounds						
3) 2-Methylnaphthalene-d10	5.14	152	21278	162.94	ng/ml	-0.04
Spiked Amount 200.000			Recovery = 81.47%			
17) Fluorene-d10	6.53	176	25862	159.36	ng/ml	-0.03
Spiked Amount 200.000			Recovery = 79.68%			
33) Fluoranthene-d10	8.32	212	48105	153.43	ng/ml	-0.03
Spiked Amount 200.000			Recovery = 76.72%			
37) Terphenyl-d14	8.65	244	36045	224.89	ng/ml	-0.04
Spiked Amount 200.000			Recovery = 112.44%			
Target Compounds						Qvalue
2) Naphthalene	4.49	128	363	1.61	ng/ml	93
4) 2-Methylnaphthalene	5.17	142	95	0.66	ng/ml	91
5) 1-Methylnaphthalene	5.26	142	58	0.43	ng/ml	89
6) Biphenyl	5.60	154	120	0.55	ng/ml	92
7) 2,6-Dimethylnaphthalene	5.81	156	55	0.42	ng/ml	85
14) Acenaphthene	6.11	154	266	1.63	ng/ml	97
15) Dibenzofuran	6.27	168	80	0.33	ng/ml	57
18) Fluorene	6.56	166	244	1.29	ng/ml	97
23) Dibenzothiophene	7.25	184	108	0.39	ng/ml	61
24) Phenanthrene	7.35	178	911	3.05	ng/ml	98
25) Anthracene	7.40	178	168	0.67	ng/ml	92
26) Carbazole	7.49	167	69	0.27	ng/ml	65
32) Fluoranthene	8.33	202	230m	0.67	ng/ml	
35) Pyrene	8.51	202	275	1.18	ng/ml#	1

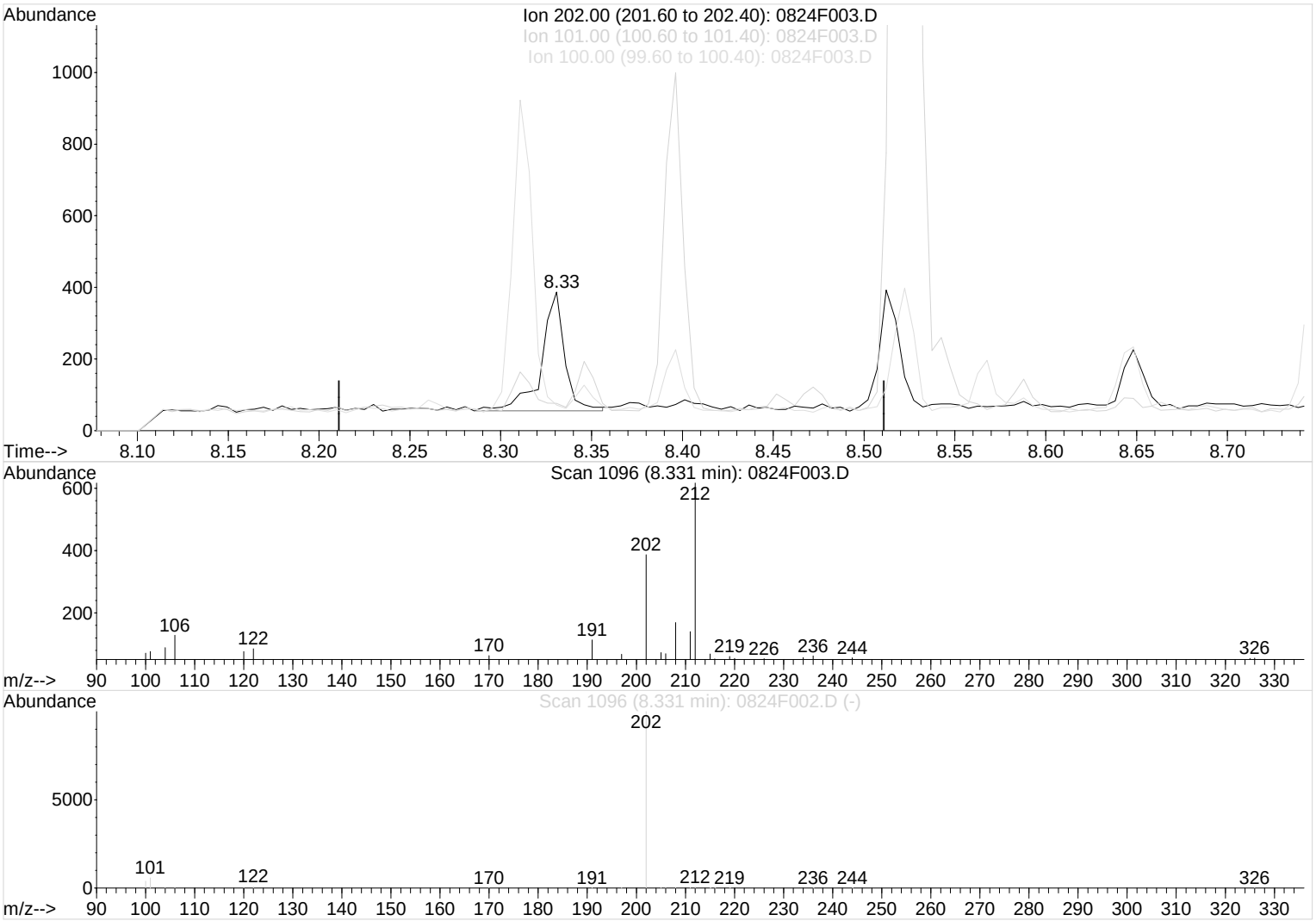
(#) = qualifier out of range (m) = manual integration

Quantitation Report (Qedit)

1st 09/09/21
2nd 09/15/21

Data File : J:\MS14\DATA\082421\0824F003.D Vial: 3
Acq On : 24 Aug 2021 3:11 pm Operator: CSD
Sample : KQ2115593-06 MB Inst : MS14
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 28 15:17 2021 Quant Results File: temp.res

Method : J:\MS14\METHODS\SIM\072621ALK.M (RTE Integrator)
Title : PAHS and ALKYLATED HOMOLOGS
Last Update : Sat Aug 28 15:09:01 2021
Response via : Multiple Level Calibration



TIC: 0824F003.D

(32) Fluoranthene (T)

8.33min 0.86ng/ml

response 298

Ion	Exp%	Act%
202.00	100	100
101.00	8.40	4.82
100.00	5.80	3.01
0.00	0.00	0.00

Manual Integration:

Before

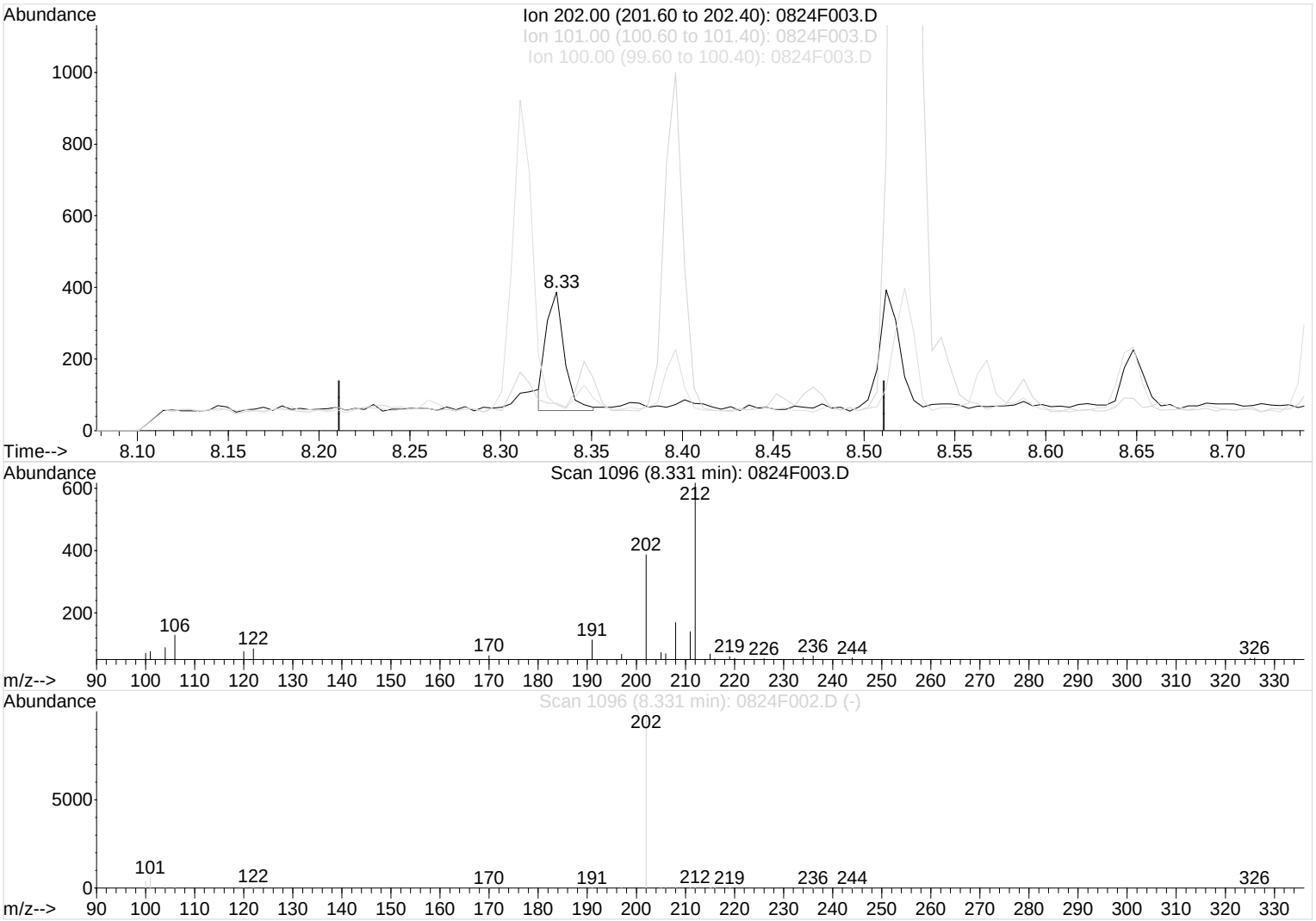
08/28/21

Quantitation Report (Qedit)

1st 09/09/21
2nd 09/15/21

Data File : J:\MS14\DATA\082421\0824F003.D Vial: 3
Acq On : 24 Aug 2021 3:11 pm Operator: CSD
Sample : KQ2115593-06 MB Inst : MS14
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 28 15:17 2021 Quant Results File: temp.res

Method : J:\MS14\METHODS\SIM\072621ALK.M (RTE Integrator)
Title : PAHS and ALKYLATED HOMOLOGS
Last Update : Sat Aug 28 15:09:01 2021
Response via : Multiple Level Calibration



TIC: 0824F003.D

(32) Fluoranthene (T)

8.33min 0.67ng/ml m

response 230

Ion	Exp%	Act%
202.00	100	100
101.00	8.40	19.64
100.00	5.80	18.35
0.00	0.00	0.00

Manual Integration:

After

Baseline correction

08/28/21

1st 08/17/21
2nd 08/19/21

Validation Report

Data File: J:\MS14\DATA\081321\0813F004.D\
Lab ID: KQ2115373-01
RunType: LCS
Matrix: Water

Date Acquired: 8/13/21 11:51:00
Batch ID: 735140
Analysis Method: 8270D/PAH SIM

Validations

Validation Categories	Pass	Fail
Analytical Hold Time	X	
ICAL Analyte Recovery	X	
Second Source ICAL Verification	X	
Continuing Calibration Recovery	X	
Internal Standards	X	
Surrogates	X	
Std MRL Unsupported by ICAL	X	
Above Highest ICAL Level	X	

Primary Review: _____

Printed: 8/17/21 17:34
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Secondary Review: _____

1st 08/17/21
2nd 08/19/21

Quantitation Report

Data File:	J:\MS14\DATA\081321\0813F004.D\	**Instrument:**	K-MS-14
Acqu Date:	8/13/21 11:51:00	**Vial:**	4
Run Type:	LCS	**Dilution:**	1
Lab ID:	KQ2115373-01	**Raw Units:**	ng/mL

Bottle ID:		**Tier:**	II	**Matrix:**	Water
Prod Code:	PAH SIM	**Collect Date:**	8/5/21	**Receive Date:**	8/6/21

Analysis Lot:	735140	**Prep Lot:**	385208	**Report Group:**	KQ2115373
Analysis	8270D	**Prep Method:**	EPA 3511		
		Prep Date:	8/12/21		

Title:	Polycyclic Aromatic Hydrocarbons by GC/MS SIM	**Calibration ID:**	KC2100398
		Report List ID:	18998

Internal Standard Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	Area Criteria
Acenaphthene-d10	6.10		25542	200.00	OK
Chrysene-d12	9.76		44290	200.00	OK
Naphthalene-d8	4.48	-0.01	51902	200.00	OK
Perylene-d12	12.55	+0.01	50550	200.00	OK
Phenanthrene-d10	7.34		50997	200.00	OK

Surrogate Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	% Rec	% Rec Criteria	Rpt?
Fluoranthene-d10	8.33		281839	922.44	92	42 - 133	Y
Fluorene-d10	6.54		144032	935.06	94	42 - 131	Y
Terphenyl-d14	8.66		184987	781.62	78	32 - 129	Y

Target Compounds

Final Conc.Units: ug/L

Parameter Name	RT	RT Dev	Response	Solution Conc	Final Conc	Q	Rpt?
2-Methylnaphthalene	5.18	-0.01	96352	577.17	2.57		Y
Acenaphthene	6.13		93137	599.92	2.67		Y
Acenaphthylene	5.98		151033	613.18	2.73		Y
Anthracene	7.40		174418	710.98	3.16		Y
Benz(a)anthracene	9.75		209242	634.95	2.82		Y
Benzo(a)pyrene	12.40	+0.01	199777	653.62	2.90		Y
Benzo(b)fluoranthene	11.61		230901	661.64	2.94		Y
Benzo(g,h,i)perylene	15.42		212794	614.88	2.73		Y
Benzo(k)fluoranthene	11.68		212628	651.90	2.90		Y
Chrysene	9.80		188436	609.00	2.71		Y
Dibenz(a,h)anthracene	15.10		197458	658.11	2.92		Y
Dibenzofuran	6.28		140916	620.32	2.76		Y
Fluoranthene	8.34		197970	589.30	2.62		Y

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

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1st 08/17/21

2nd 08/19/21

Data File:	J:\MS14\DATA\081321\0813F004.D\	**Instrument:**	K-MS-14
Acqu Date:	8/13/21 11:51:00	**Vial:**	4
Run Type:	LCS	**Dilution:**	1
Lab ID:	KQ2115373-01	**Raw Units:**	ng/mL

Target Compounds

Final Conc.Units: ug/L

Parameter Name	RT	RT Dev	Response	Solution Conc	Final Conc	Q	Rpt?
Fluorene	6.56	-0.01	108857	605.89	2.69		Y
Indeno(1,2,3-cd)pyrene	15.05		205648	708.08	3.15		Y
Naphthalene	4.50	-0.01	148337	571.15	2.54		Y
Phenanthrene	7.36		174552	599.01	2.66		Y
Pyrene	8.53	+0.01	212387	617.37	2.74		Y

Prep Amount:	450 mL	**Dilution:**	1
Prep Final Amount:	2.00 mL	**Basis Factor:**	100.00

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Printed: 8/17/21 17:34

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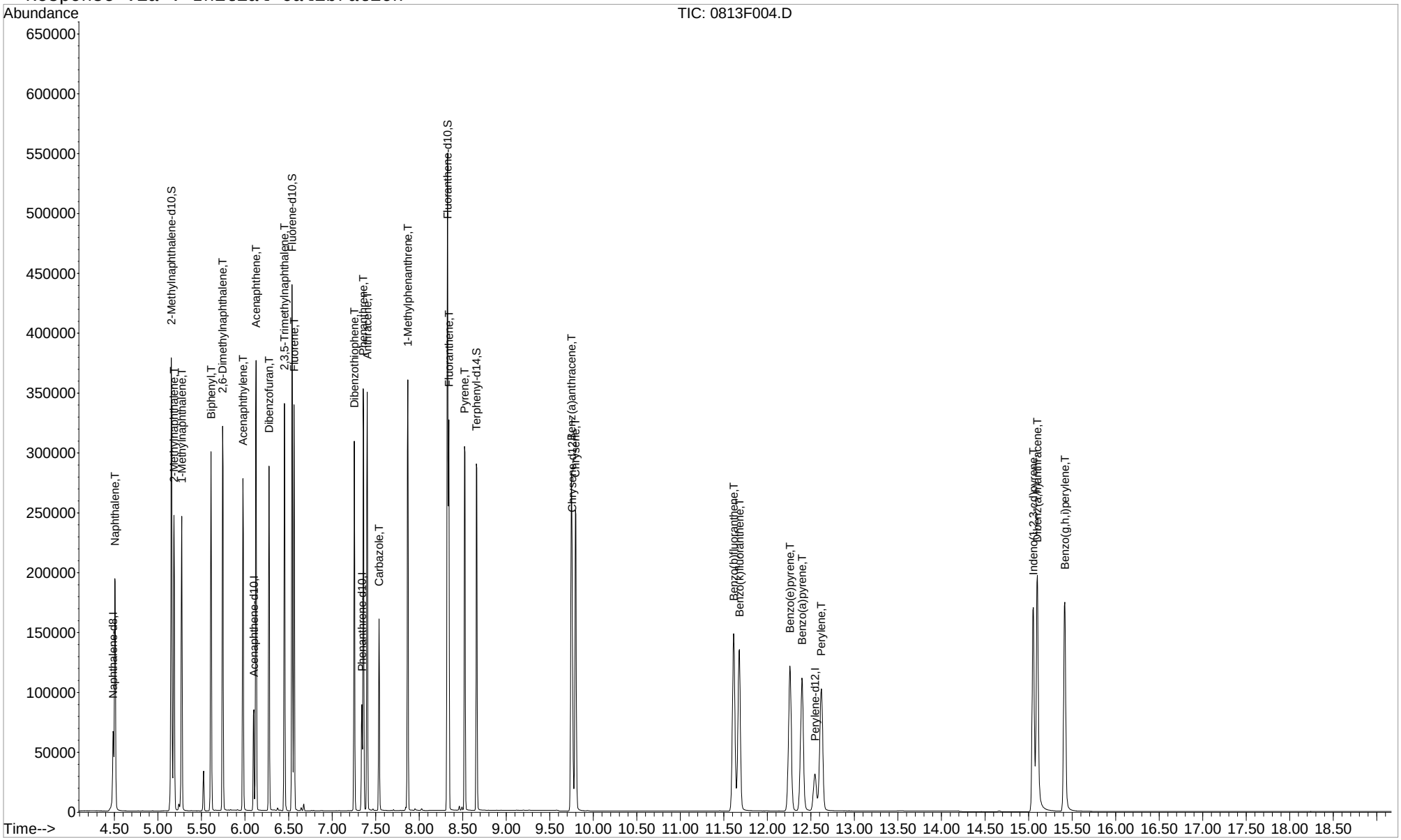
1st 08/17/21
2nd 08/19/21

Data File : J:\MS14\DATA\081321\0813F004.D Vial: 4
Acq On : 13 Aug 2021 11:51 am Operator: E.Bruno
Sample : KQ2115373-01 LCS Inst : MS14
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 17 16:44 2021 Quant Results File: 072621ALK.RES

Method : J:\MS14\METHODS\SIM\072621ALK.M (RTE Integrator)
Title : PAHS and ALKYLATED HOMOLOGS
Last Update : Mon Jul 26 23:01:28 2021
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

1st 08/17/21
2nd 08/19/21

Data File : J:\MS14\DATA\081321\0813F004.D Vial: 4
Acq On : 13 Aug 2021 11:51 am Operator: E.Bruno
Sample : KQ2115373-01 LCS Inst : MS14
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 17 16:42:22 2021 Quant Results File: 072621ALK.RES

Quant Method : J:\MS14\METHODS\SIM\072621ALK.M (RTE Integrator)
Title : PAHS and ALKYLATED HOMOLOGS
Last Update : Mon Jul 26 23:01:28 2021
Response via : Initial Calibration
DataAcq Meth : A_PAHAT05

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Naphthalene-d8	4.48	136	51902m	200.00	ng/ml	-0.05
12) Acenaphthene-d10	6.10	164	25542	200.00	ng/ml	-0.03
22) Phenanthrene-d10	7.34	188	50997	200.00	ng/ml	-0.02
34) Chrysene-d12	9.76	240	44290	200.00	ng/ml	-0.03
44) Perylene-d12	12.55	264	50550	200.00	ng/ml	-0.04
System Monitoring Compounds						
3) 2-Methylnaphthalene-d10	5.15	152	133517	887.36	ng/ml	-0.03
Spiked Amount 200.000			Recovery =	443.68%		
17) Fluorene-d10	6.54	176	144032	935.06	ng/ml	-0.03
Spiked Amount 200.000			Recovery =	467.53%		
33) Fluoranthene-d10	8.33	212	281839	922.44	ng/ml	-0.02
Spiked Amount 200.000			Recovery =	461.22%		
37) Terphenyl-d14	8.66	244	184987	781.62	ng/ml	-0.03
Spiked Amount 200.000			Recovery =	390.81%		
Target Compounds						Qvalue
2) Naphthalene	4.50	128	148337m	571.15	ng/ml	
4) 2-Methylnaphthalene	5.18	142	96352	577.17	ng/ml	95
5) 1-Methylnaphthalene	5.27	142	88904	575.79	ng/ml	96
6) Biphenyl	5.61	154	139893	554.57	ng/ml	100
7) 2,6-Dimethylnaphthalene	5.75	156	90305	604.07	ng/ml	97
13) Acenaphthylene	5.98	152	151033	613.18	ng/ml	98
14) Acenaphthene	6.13	154	93137	599.92	ng/ml	96
15) Dibenzofuran	6.28	168	140916	620.32	ng/ml	78
16) 2,3,5-Trimethylnaphthalene	6.45	170	91623	630.30	ng/ml	90
18) Fluorene	6.56	166	108857	605.89	ng/ml	97
23) Dibenzothiophene	7.26	184	172242	634.91	ng/ml	91
24) Phenanthrene	7.36	178	174552	599.01	ng/ml	99
25) Anthracene	7.40	178	174418	710.98	ng/ml	99
26) Carbazole	7.54	167	86993	342.86	ng/ml	100
27) 1-Methylphenanthrene	7.87	192	131994	616.62	ng/ml	98
32) Fluoranthene	8.34	202	197970	589.30	ng/ml	94
35) Pyrene	8.53	202	212387	617.37	ng/ml	97
38) Benz(a)anthracene	9.75	228	209242	634.95	ng/ml	98
39) Chrysene	9.80	228	188436	609.00	ng/ml	98
45) Benzo(b)fluoranthene	11.61	252	230901	661.64	ng/ml	100
46) Benzo(k)fluoranthene	11.68	252	212628	651.90	ng/ml	99
47) Benzo(e)pyrene	12.26	252	208419	635.24	ng/ml	100
48) Benzo(a)pyrene	12.40	252	199777	653.62	ng/ml	99
49) Perylene	12.62	252	192113	638.13	ng/ml	99
50) Indeno(1,2,3-cd)pyrene	15.05	276	205648	708.08	ng/ml	99
51) Dibenz(a,h)anthracene	15.10	278	197458	658.11	ng/ml	99
52) Benzo(g,h,i)perylene	15.42	276	212794	614.88	ng/ml	99

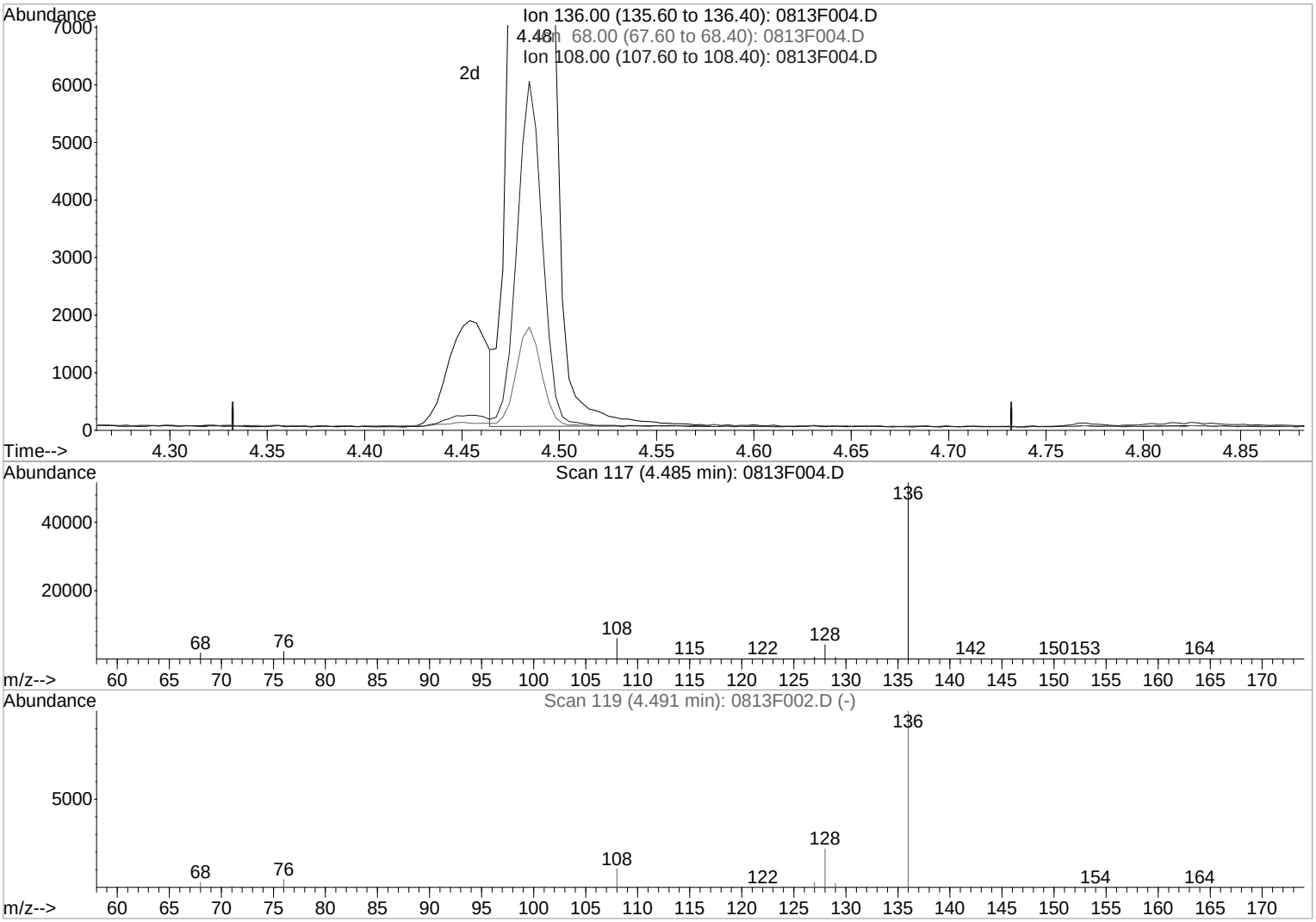
(#) = qualifier out of range (m) = manual integration

Quantitation Report (Qedit)

1st 08/17/21
2nd 08/19/21

Data File : J:\MS14\DATA\081321\0813F004.D Vial: 4
Acq On : 13 Aug 2021 11:51 am Operator: E.Bruno
Sample : KQ2115373-01 LCS Inst : MS14
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 17 16:42 2021 Quant Results File: temp.res

Method : J:\MS14\METHODS\SIM\072621ALK.M (RTE Integrator)
Title : PAHS and ALKYLATED HOMOLOGS
Last Update : Mon Jul 26 23:01:28 2021
Response via : Multiple Level Calibration



TIC: 0813F004.D

(1) Naphthalene-d8 (I)

4.48min 200.00ng/ml

response 49086

Ion	Exp%	Act%
136.00	100	100
68.00	3.80	3.31
108.00	9.70	11.63
0.00	0.00	0.00

Manual Integration:

Before

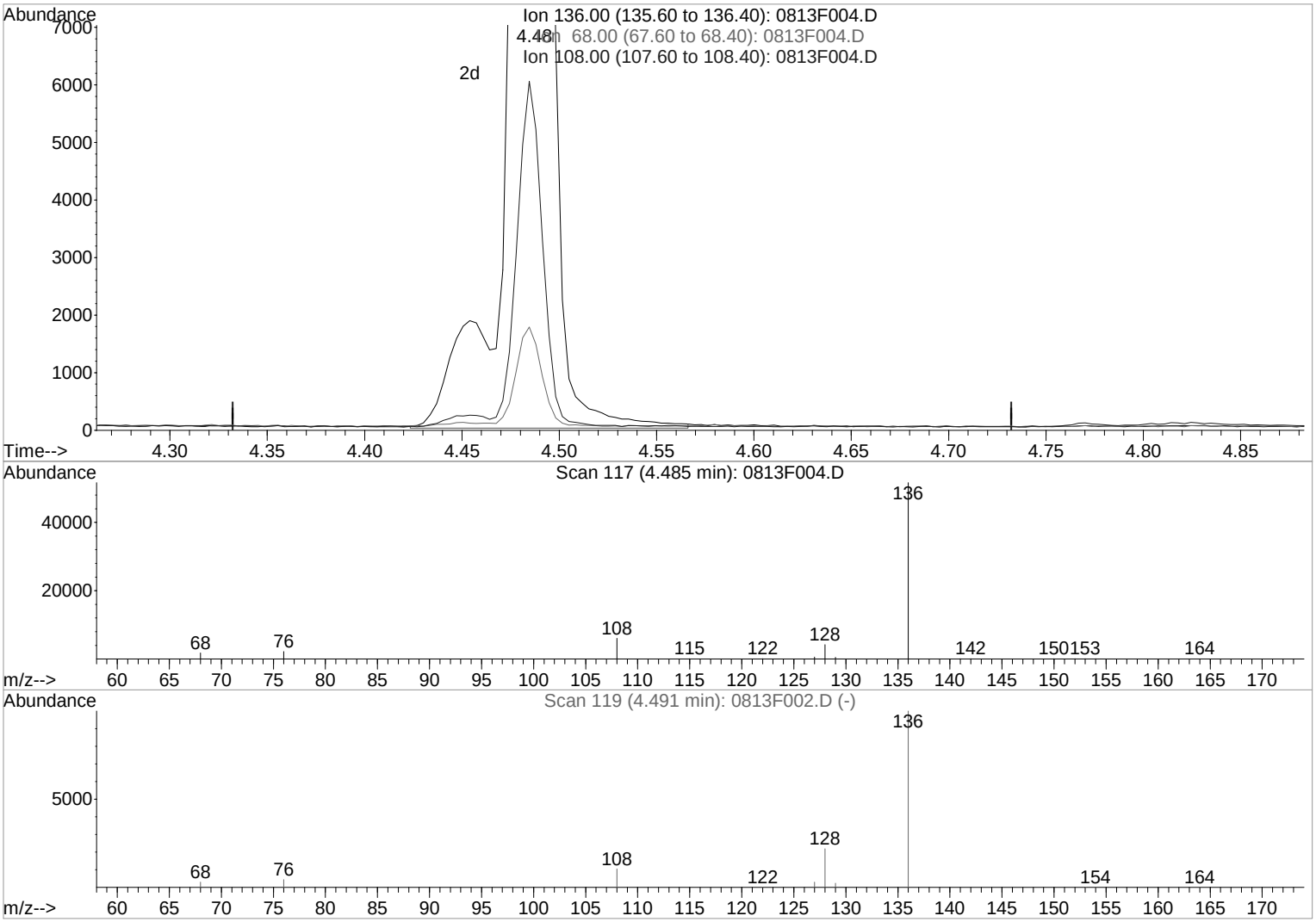
08/17/21

Quantitation Report (Qedit)

1st 08/17/21
2nd 08/19/21

Data File : J:\MS14\DATA\081321\0813F004.D Vial: 4
Acq On : 13 Aug 2021 11:51 am Operator: E.Bruno
Sample : KQ2115373-01 LCS Inst : MS14
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 17 16:44 2021 Quant Results File: temp.res

Method : J:\MS14\METHODS\SIM\072621ALK.M (RTE Integrator)
Title : PAHS and ALKYLATED HOMOLOGS
Last Update : Mon Jul 26 23:01:28 2021
Response via : Multiple Level Calibration



TIC: 0813F004.D

(1) Naphthalene-d8 (I)

4.48min 200.00ng/ml m

response 51902

Ion	Exp%	Act%
136.00	100	100
68.00	3.80	3.47
108.00	9.70	11.73
0.00	0.00	0.00

Manual Integration:

After

IC-Incomplete

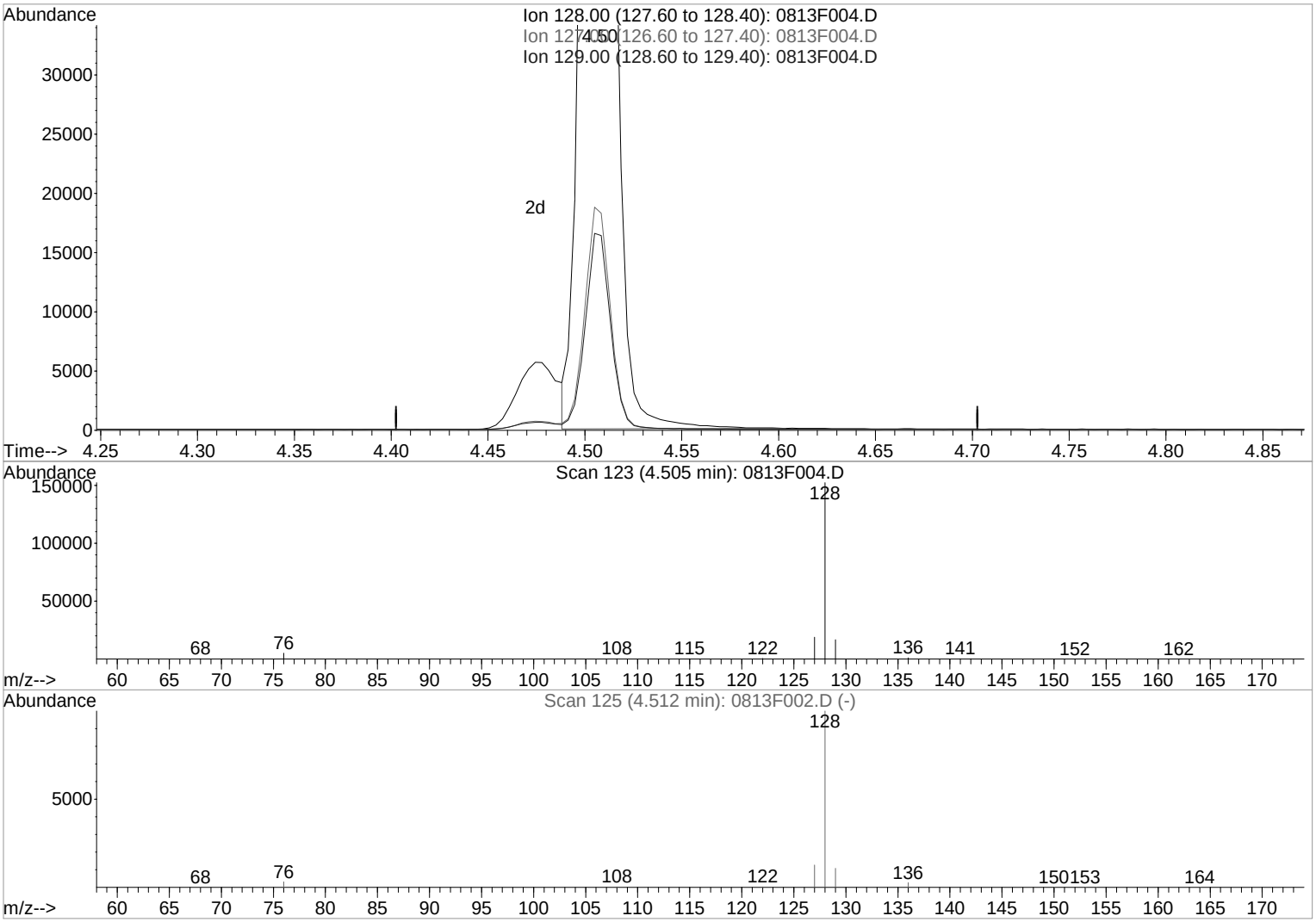
08/17/21

Quantitation Report (Qedit)

1st 08/17/21
2nd 08/19/21

Data File : J:\MS14\DATA\081321\0813F004.D Vial: 4
Acq On : 13 Aug 2021 11:51 am Operator: E.Bruno
Sample : KQ2115373-01 LCS Inst : MS14
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 17 16:44 2021 Quant Results File: temp.res

Method : J:\MS14\METHODS\SIM\072621ALK.M (RTE Integrator)
Title : PAHS and ALKYLATED HOMOLOGS
Last Update : Mon Jul 26 23:01:28 2021
Response via : Multiple Level Calibration



TIC: 0813F004.D

(2) Naphthalene (T)

4.50min 539.64ng/ml

response 140153

Ion	Exp%	Act%
128.00	100	100
127.00	12.00	12.31
129.00	10.90	10.86
0.00	0.00	0.00

Manual Integration:

Before

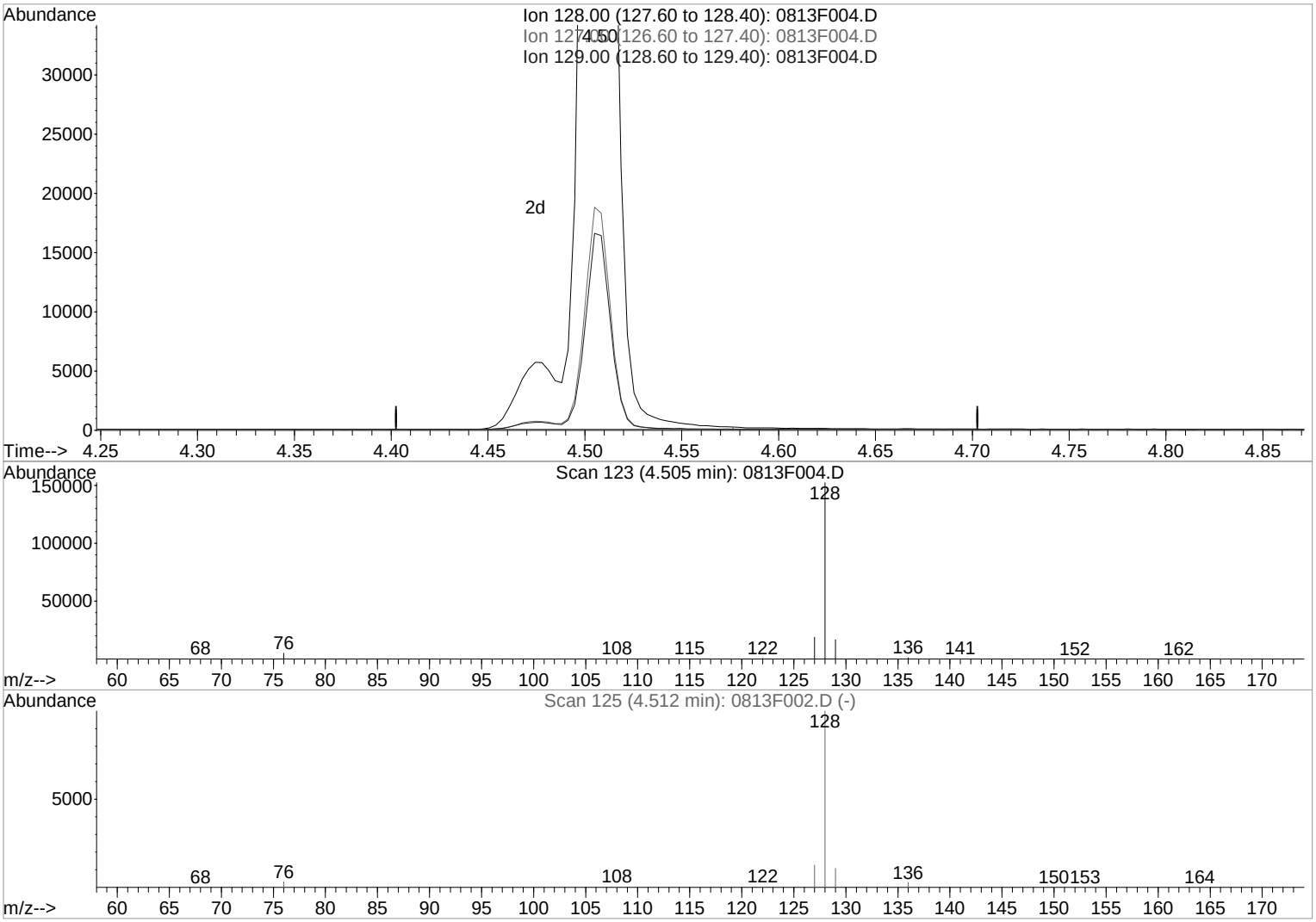
08/17/21

Quantitation Report (Qedit)

1st 08/17/21
2nd 08/19/21

Data File : J:\MS14\DATA\081321\0813F004.D Vial: 4
Acq On : 13 Aug 2021 11:51 am Operator: E.Bruno
Sample : KQ2115373-01 LCS Inst : MS14
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 17 16:44 2021 Quant Results File: temp.res

Method : J:\MS14\METHODS\SIM\072621ALK.M (RTE Integrator)
Title : PAHS and ALKYLATED HOMOLOGS
Last Update : Mon Jul 26 23:01:28 2021
Response via : Multiple Level Calibration



TIC: 0813F004.D

(2) Naphthalene (T)

4.50min 571.15ng/ml m

response 148337

Ion	Exp%	Act%
128.00	100	100
127.00	12.00	12.35
129.00	10.90	10.90
0.00	0.00	0.00

Manual Integration:

After

IC-Incomplete

08/17/21

1st CO 09/09/21
2nd 09/15/21

Validation Report

Data File: J:\MS14\DATA\082421\0824F005.D\
Lab ID: KQ2115593-05
RunType: LCS
Matrix: Soil

Date Acquired: 8/24/21 16:04:00
Batch ID: 736775
Analysis Method: 8270D/PAH SIM

Validations

Validation Categories	Pass	Fail
Analytical Hold Time	X	
ICAL Analyte Recovery	X	
Second Source ICAL Verification	X	
Continuing Calibration Recovery	X	
Internal Standards	X	
Surrogates	X	
Std MRL Unsupported by ICAL	X	
Above Highest ICAL Level	X	

Primary Review: _____

Printed: 9/3/21 11:15
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Secondary Review: _____

1st CO 09/09/21
2nd 09/15/21

Quantitation Report

Data File:	J:\MS14\DATA\082421\0824F005.D\	**Instrument:**	K-MS-14
Acqu Date:	8/24/21 16:04:00	**Vial:**	4
Run Type:	LCS	**Dilution:**	1
Lab ID:	KQ2115593-05	**Raw Units:**	ng/mL

Bottle ID:		**Tier:**	IV	**Matrix:**	Soil
Prod Code:	PAH SIM	**Collect Date:**	8/3/21	**Receive Date:**	8/4/21

Analysis Lot:	736775	**Prep Lot:**	385361	**Report Group:**	KQ2115593
Analysis	8270D	**Prep Method:**	EPA 3546		
		Prep Date:	8/13/21		

Title:	Polycyclic Aromatic Hydrocarbons by GC/MS SIM	**Calibration ID:**	KC2100398
		Report List ID:	18998

Internal Standard Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	Area Criteria
Acenaphthene-d10	6.09		23632	200.00	OK
Chrysene-d12	9.75		39328	200.00	OK
Naphthalene-d8	4.46	-0.02	44906	200.00	OK
Perylene-d12	12.51	-0.01	45315	200.00	OK
Phenanthrene-d10	7.33		46750	200.00	OK

Surrogate Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	% Rec	% Rec Criteria	Rpt?
Fluoranthene-d10	8.32		40076	143.08	72	38 - 104	Y
Fluorene-d10	6.53		20138	141.30	71	39 - 109	Y
Terphenyl-d14	8.65		30553	145.38	73	38 - 113	Y

Target Compounds

Final Conc.Units: ug/Kg

Parameter Name	RT	RT Dev	Response	Solution Conc	Final Conc	Q	Rpt?
2-Methylnaphthalene	5.17	-0.01	61354	424.78	425		Y
Acenaphthene	6.12		57577	400.84	401		Y
Acenaphthylene	5.97		93045	408.29	408		Y
Anthracene	7.40		107530	478.14	478		Y
Benz(a)anthracene	9.73		131681	450.01	450		Y
Benzo(a)pyrene	12.37	+0.01	125408	457.70	458		Y
Benzo(b)fluoranthene	11.59		147822	472.52	473		Y
Benzo(g,h,i)perylene	15.40		121934	393.04	393		Y
Benzo(k)fluoranthene	11.65		138141	472.46	472		Y
Chrysene	9.78		121793	443.28	443		Y
Dibenz(a,h)anthracene	15.08		99402	369.57	370		Y
Dibenzofuran	6.27		86898	413.45	413		Y
Fluoranthene	8.33		131469	426.89	427		Y

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Printed: 9/3/21 11:15
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1st CO 09/09/21

2nd 09/15/21

Data File:	J:\MS14\DATA\082421\0824F005.D\	**Instrument:**	K-MS-14
Acqu Date:	8/24/21 16:04:00	**Vial:**	4
Run Type:	LCS	**Dilution:**	1
Lab ID:	KQ2115593-05	**Raw Units:**	ng/mL

Target Compounds

Final Conc.Units: ug/Kg

Parameter Name	RT	RT Dev	Response	Solution Conc	Final Conc	Q	Rpt?
Fluorene	6.56		69155	416.02	416		Y
Indeno(1,2,3-cd)pyrene	15.04		126916	487.48	487		Y
Naphthalene	4.49	-0.01	87716	390.35	390		Y
Phenanthrene	7.35		106783	399.73	400		Y
Pyrene	8.51		135459	443.44	443		Y

Prep Amount:	10.00 g	**Dilution:**	1
Prep Final Amount:	10.00 mL	**Basis Factor:**	100.00

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

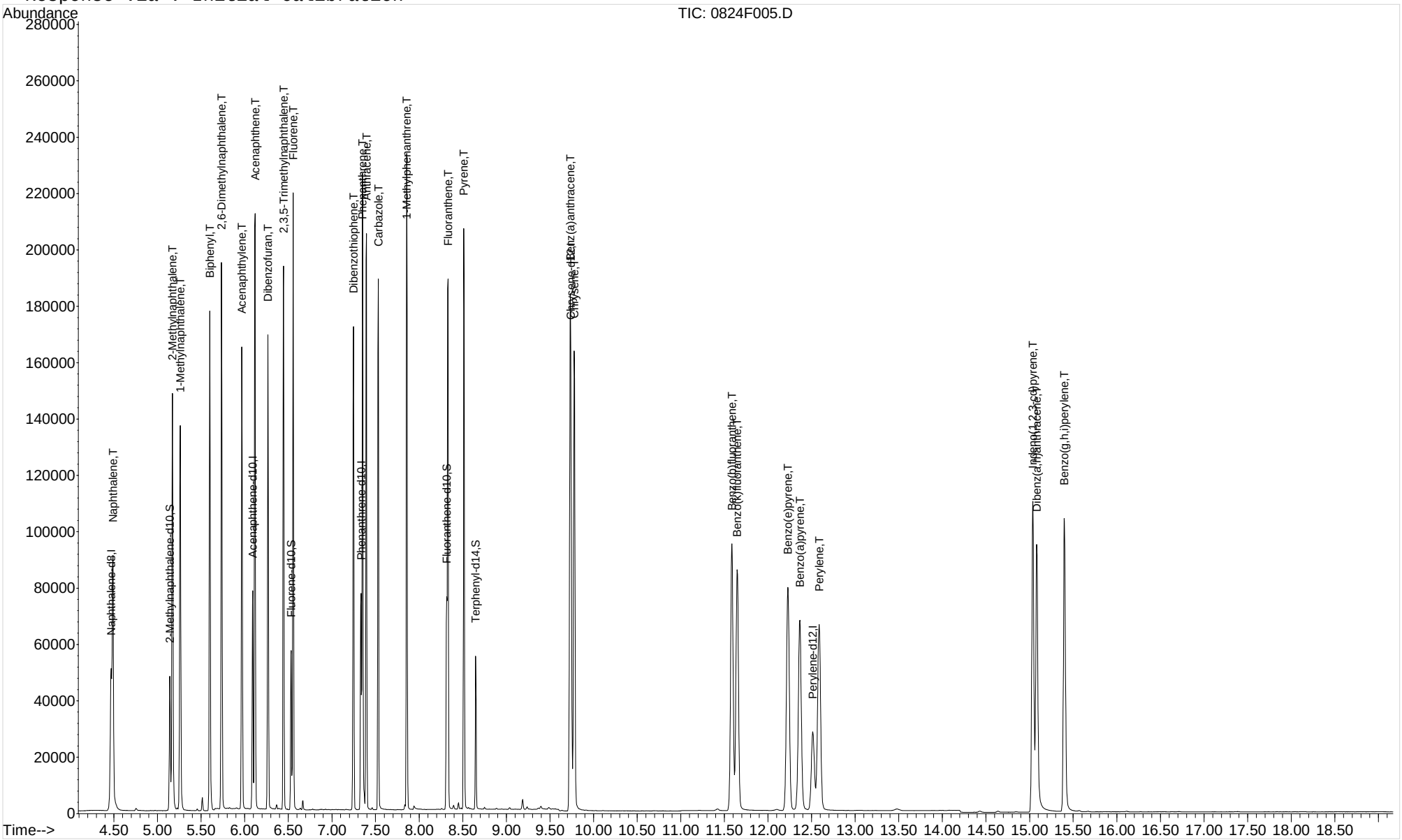
Printed: 9/3/21 11:15

\\alprews001\starlims$\LIMSReps\QuantValidation.rpt

1st CO 09/09/21
2nd 09/15/21

Data File : J:\MS14\DATA\082421\0824F005.D Vial: 4
Acq On : 24 Aug 2021 4:04 pm Operator: CSD
Sample : KQ2115593-05 LCS Inst : MS14
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 28 15:19 2021 Quant Results File: 072621ALK.RES

Method : J:\MS14\METHODS\SIM\072621ALK.M (RTE Integrator)
Title : PAHS and ALKYLATED HOMOLOGS
Last Update : Sat Aug 28 15:09:01 2021
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

1st CO 09/09/21
2nd 09/15/21

Data File : J:\MS14\DATA\082421\0824F005.D Vial: 4
Acq On : 24 Aug 2021 4:04 pm Operator: CSD
Sample : KQ2115593-05 LCS Inst : MS14
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 28 15:09:36 2021 Quant Results File: 072621ALK.RES

Quant Method : J:\MS14\METHODS\SIM\072621ALK.M (RTE Integrator)
Title : PAHS and ALKYLATED HOMOLOGS
Last Update : Sat Aug 28 15:09:01 2021
Response via : Initial Calibration
DataAcq Meth : A_PAHAT05

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Naphthalene-d8	4.46	136	44906	200.00	ng/ml	-0.07
12) Acenaphthene-d10	6.09	164	23632	200.00	ng/ml	-0.04
22) Phenanthrene-d10	7.33	188	46750	200.00	ng/ml	-0.03
34) Chrysene-d12	9.75	240	39328	200.00	ng/ml	-0.05
44) Perylene-d12	12.51	264	45315	200.00	ng/ml	-0.08
System Monitoring Compounds						
3) 2-Methylnaphthalene-d10	5.14	152	18819	144.56	ng/ml	-0.05
Spiked Amount 200.000			Recovery =	72.28%		
17) Fluorene-d10	6.53	176	20138	141.30	ng/ml	-0.03
Spiked Amount 200.000			Recovery =	70.65%		
33) Fluoranthene-d10	8.32	212	40076	143.08	ng/ml	-0.03
Spiked Amount 200.000			Recovery =	71.54%		
37) Terphenyl-d14	8.65	244	30553	145.38	ng/ml	-0.04
Spiked Amount 200.000			Recovery =	72.69%		
Target Compounds						Qvalue
2) Naphthalene	4.49	128	87716	390.35	ng/ml	99
4) 2-Methylnaphthalene	5.17	142	61354	424.78	ng/ml	95
5) 1-Methylnaphthalene	5.26	142	55281	413.80	ng/ml	96
6) Biphenyl	5.60	154	82623	378.57	ng/ml	99
7) 2,6-Dimethylnaphthalene	5.73	156	54591	422.06	ng/ml	88
13) Acenaphthylene	5.97	152	93045	408.29	ng/ml	99
14) Acenaphthene	6.12	154	57577	400.84	ng/ml	95
15) Dibenzofuran	6.27	168	86898	413.45	ng/ml	82
16) 2,3,5-Trimethylnaphthalene	6.45	170	64243	477.66	ng/ml	96
18) Fluorene	6.56	166	69155	416.02	ng/ml	96
23) Dibenzothiophene	7.25	184	102951	413.97	ng/ml	95
24) Phenanthrene	7.35	178	106783	399.73	ng/ml	99
25) Anthracene	7.40	178	107530	478.14	ng/ml	99
26) Carbazole	7.53	167	100641	432.68	ng/ml	100
27) 1-Methylphenanthrene	7.86	192	83128	423.62	ng/ml	98
32) Fluoranthene	8.33	202	131469	426.89	ng/ml	92
35) Pyrene	8.51	202	135459	443.44	ng/ml	98
38) Benz(a)anthracene	9.73	228	131681	450.01	ng/ml	98
39) Chrysene	9.78	228	121793	443.28	ng/ml	98
45) Benzo(b)fluoranthene	11.59	252	147822	472.52	ng/ml	99
46) Benzo(k)fluoranthene	11.65	252	138141	472.46	ng/ml	99
47) Benzo(e)pyrene	12.23	252	140921	479.13	ng/ml	99
48) Benzo(a)pyrene	12.37	252	125408	457.70	ng/ml	99
49) Perylene	12.59	252	123250	456.69	ng/ml	99
50) Indeno(1,2,3-cd)pyrene	15.04	276	126916	487.48	ng/ml	98
51) Dibenz(a,h)anthracene	15.08	278	99402m	369.57	ng/ml	
52) Benzo(g,h,i)perylene	15.40	276	121934	393.04	ng/ml	97

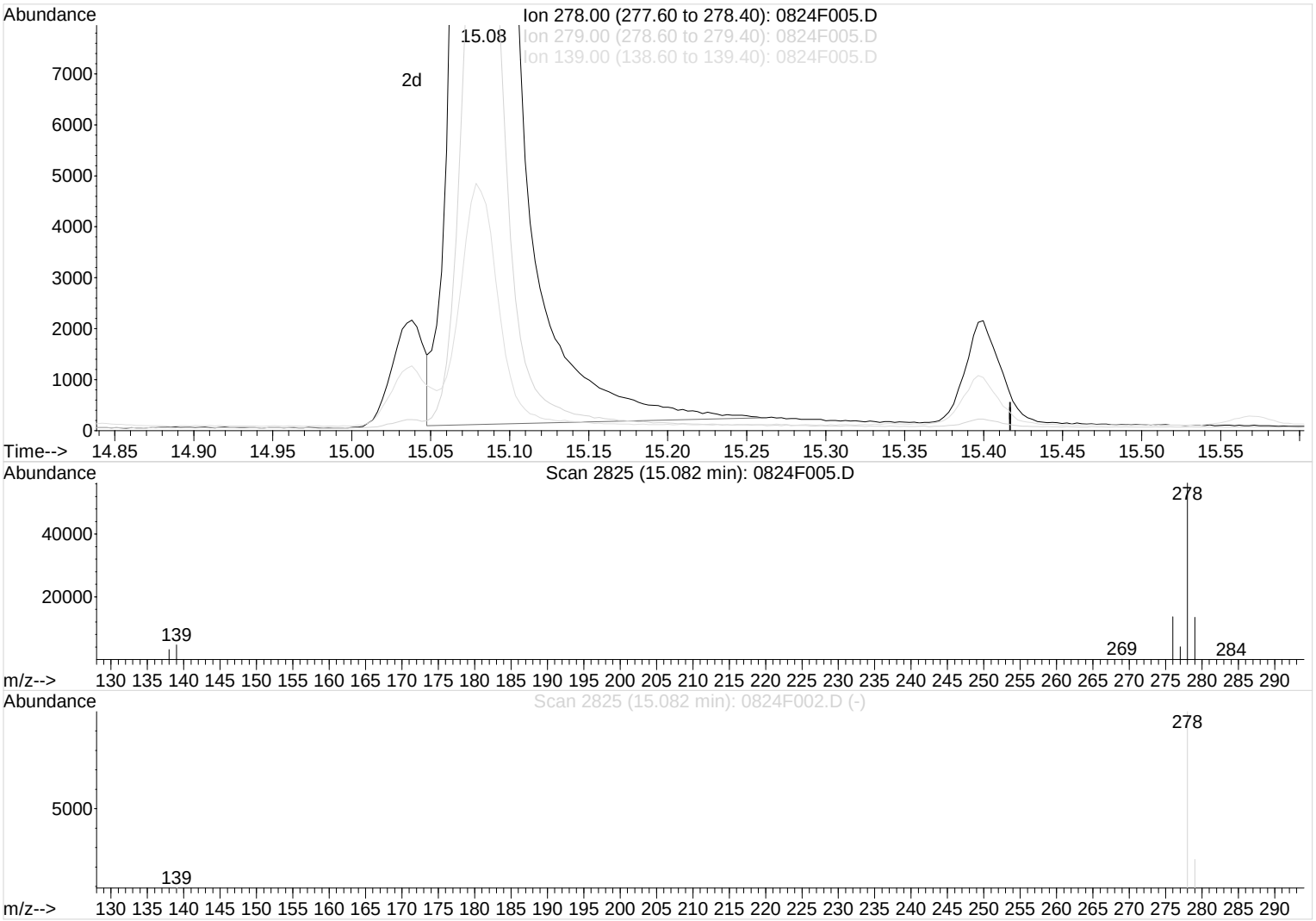
(#) = qualifier out of range (m) = manual integration

Quantitation Report (Qedit)

1st CO 09/09/21
2nd 09/15/21

Data File : J:\MS14\DATA\082421\0824F005.D Vial: 4
Acq On : 24 Aug 2021 4:04 pm Operator: CSD
Sample : KQ2115593-05 LCS Inst : MS14
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 28 15:09 2021 Quant Results File: temp.res

Method : J:\MS14\METHODS\SIM\072621ALK.M (RTE Integrator)
Title : PAHS and ALKYLATED HOMOLOGS
Last Update : Sat Aug 28 15:09:01 2021
Response via : Multiple Level Calibration



TIC: 0824F005.D

(51) Dibenz(a,h)anthracene (T)

15.08min 364.30ng/ml

response 97985

Ion	Exp%	Act%
278.00	100	100
279.00	23.30	23.85
139.00	11.20	8.16
0.00	0.00	0.00

Manual Integration:

Before

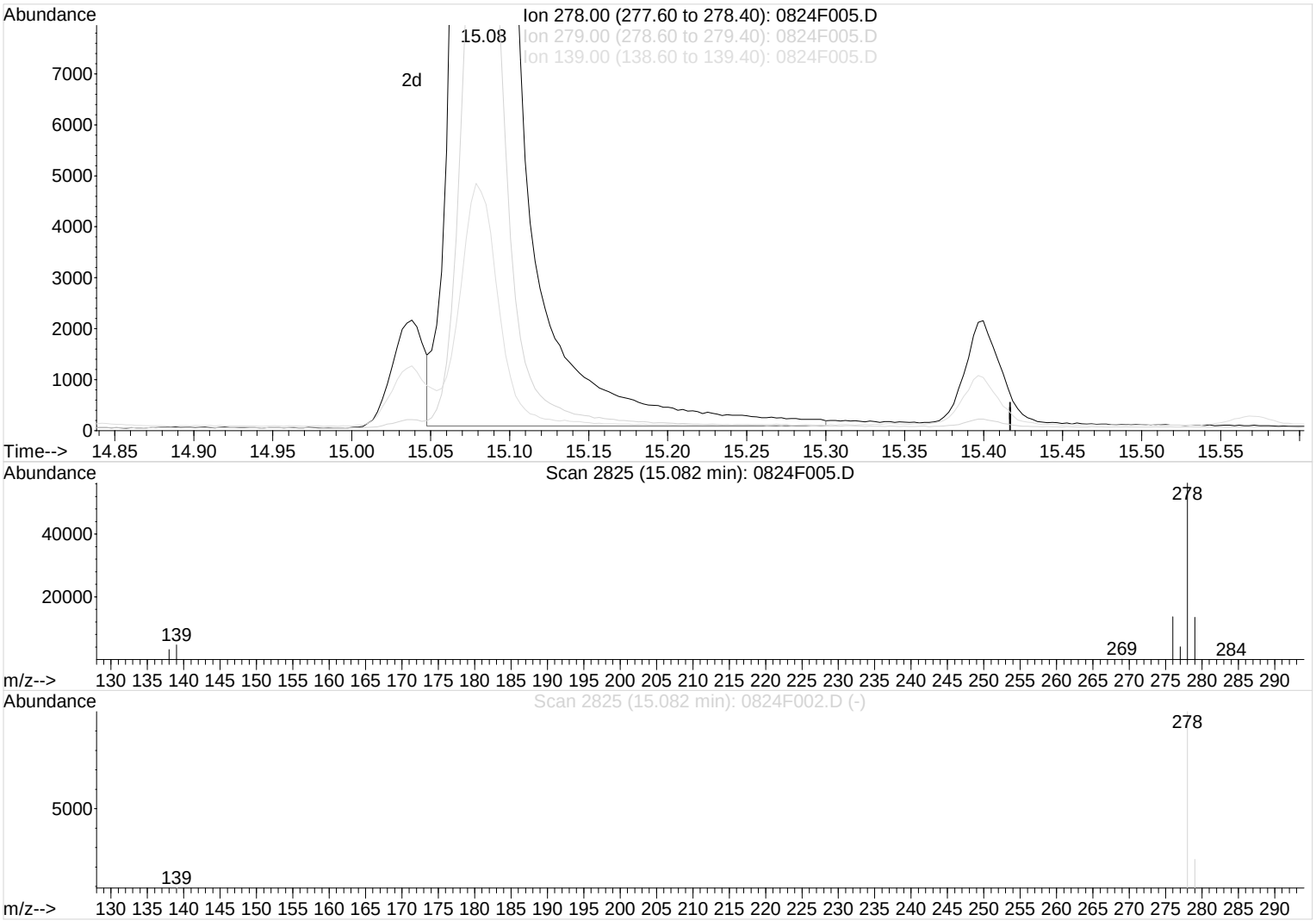
08/28/21

Quantitation Report (Qedit)

1st CO 09/09/21
2nd 09/15/21

Data File : J:\MS14\DATA\082421\0824F005.D Vial: 4
Acq On : 24 Aug 2021 4:04 pm Operator: CSD
Sample : KQ2115593-05 LCS Inst : MS14
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 28 15:19 2021 Quant Results File: temp.res

Method : J:\MS14\METHODS\SIM\072621ALK.M (RTE Integrator)
Title : PAHS and ALKYLATED HOMOLOGS
Last Update : Sat Aug 28 15:09:01 2021
Response via : Multiple Level Calibration



TIC: 0824F005.D

(51) Dibenz(a,h)anthracene (T)

15.08min 369.57ng/ml m

response 99402

Ion	Exp%	Act%
278.00	100	100
279.00	23.30	23.91
139.00	11.20	8.33
0.00	0.00	0.00

Manual Integration:

After

Baseline correction

08/28/21

1st 08/17/21
2nd 08/19/21

Validation Report

Data File: J:\MS14\DATA\081321\0813F005.D\
Lab ID: KQ2115373-02
RunType: DLCS
Matrix: Water

Date Acquired: 8/13/21 12:18:00
Batch ID: 735140
Analysis Method: 8270D/PAH SIM

Validations

Validation Categories	Pass	Fail
Analytical Hold Time	X	
ICAL Analyte Recovery	X	
Second Source ICAL Verification	X	
Continuing Calibration Recovery	X	
Internal Standards	X	
Surrogates	X	
Std MRL Unsupported by ICAL	X	
Above Highest ICAL Level	X	

Primary Review: _____

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Secondary Review: _____

1st 08/17/21
2nd 08/19/21

Quantitation Report

Data File:	J:\MS14\DATA\081321\0813F005.D\	**Instrument:**	K-MS-14
Acqu Date:	8/13/21 12:18:00	**Vial:**	5
Run Type:	DLCS	**Dilution:**	1
Lab ID:	KQ2115373-02	**Raw Units:**	ng/mL

Bottle ID:		**Tier:**	II	**Matrix:**	Water
Prod Code:	PAH SIM	**Collect Date:**	8/5/21	**Receive Date:**	8/6/21

Analysis Lot:	735140	**Prep Lot:**	385208	**Report Group:**	KQ2115373
Analysis	8270D	**Prep Method:**	EPA 3511		
		Prep Date:	8/12/21		

Title:	Polycyclic Aromatic Hydrocarbons by GC/MS SIM	**Calibration ID:**	KC2100398
		Report List ID:	18998

Internal Standard Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	Area Criteria
Acenaphthene-d10	6.10		25250	200.00	OK
Chrysene-d12	9.76		44181	200.00	OK
Naphthalene-d8	4.48	-0.01	50809	200.00	OK
Perylene-d12	12.54		49627	200.00	OK
Phenanthrene-d10	7.34		50944	200.00	OK

Surrogate Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	% Rec	% Rec Criteria	Rpt?
Fluoranthene-d10	8.33		269264	882.20	88	42 - 133	Y
Fluorene-d10	6.54		134482	883.16	88	42 - 131	Y
Terphenyl-d14	8.66		188452	798.22	80	32 - 129	Y

Target Compounds

Final Conc.Units: ug/L

Parameter Name	RT	RT Dev	Response	Solution Conc	Final Conc	Q	Rpt?
2-Methylnaphthalene	5.18	-0.01	89365	546.83	2.43		Y
Acenaphthene	6.13		87773	571.91	2.54		Y
Acenaphthylene	5.98		142459	585.06	2.60		Y
Anthracene	7.40		165653	675.95	3.00		Y
Benz(a)anthracene	9.75		201628	613.36	2.73		Y
Benzo(a)pyrene	12.40	+0.01	190666	635.42	2.82		Y
Benzo(b)fluoranthene	11.61		222302	648.85	2.88		Y
Benzo(g,h,i)perylene	15.42		206295	607.19	2.70		Y
Benzo(k)fluoranthene	11.67	-0.01	202686	632.98	2.81		Y
Chrysene	9.80		181815	589.05	2.62		Y
Dibenz(a,h)anthracene	15.10		191377	649.70	2.89		Y
Dibenzofuran	6.28		132251	588.91	2.62		Y
Fluoranthene	8.34		188576	561.92	2.50		Y

1st 08/17/21

2nd 08/19/21

Data File:	J:\MS14\DATA\081321\0813F005.D\	**Instrument:**	K-MS-14
Acqu Date:	8/13/21 12:18:00	**Vial:**	5
Run Type:	DLCS	**Dilution:**	1
Lab ID:	KQ2115373-02	**Raw Units:**	ng/mL

Target Compounds

Final Conc.Units: ug/L

Parameter Name	RT	RT Dev	Response	Solution Conc	Final Conc	Q	Rpt?
Fluorene	6.56	-0.01	102341	576.21	2.56		Y
Indeno(1,2,3-cd)pyrene	15.05		198402	695.84	3.09		Y
Naphthalene	4.51		137344	540.20	2.40		Y
Phenanthrene	7.36		165350	568.02	2.52		Y
Pyrene	8.52		204012	594.49	2.64		Y

Prep Amount:	450 mL	**Dilution:**	1
Prep Final Amount:	2.00 mL	**Basis Factor:**	100.00

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Printed: 8/17/21 17:34

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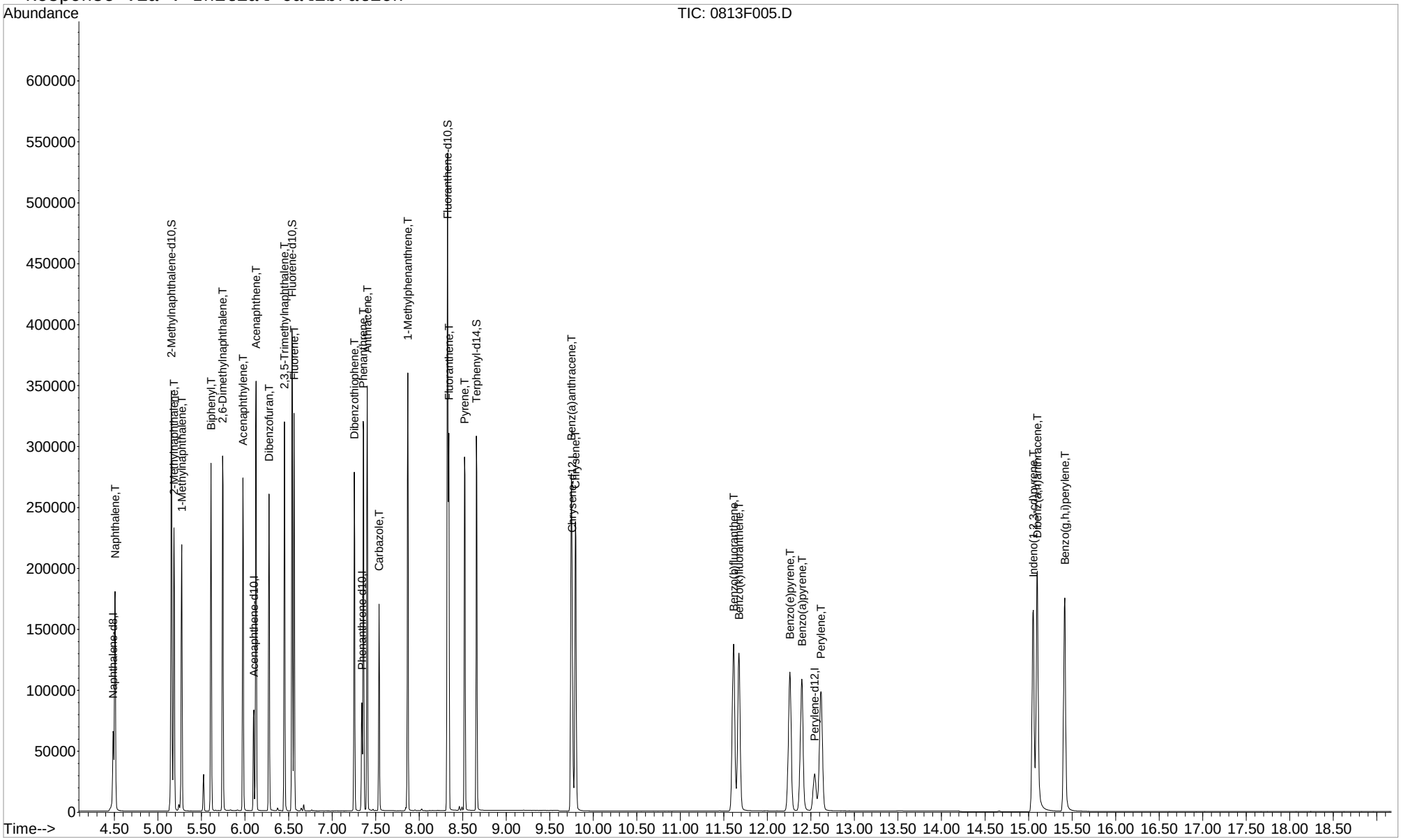
1st 08/17/21
2nd 08/19/21

Data File : J:\MS14\DATA\081321\0813F005.D Vial: 5
Acq On : 13 Aug 2021 12:18 pm Operator: E.Bruno
Sample : KQ2115373-02 DLCS Inst : MS14
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 17 16:45 2021 Quant Results File: 072621ALK.RES

Method : J:\MS14\METHODS\SIM\072621ALK.M (RTE Integrator)
Title : PAHS and ALKYLATED HOMOLOGS
Last Update : Mon Jul 26 23:01:28 2021
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

1st 08/17/21
2nd 08/19/21

Data File : J:\MS14\DATA\081321\0813F005.D Vial: 5
Acq On : 13 Aug 2021 12:18 pm Operator: E.Bruno
Sample : KQ2115373-02 DLCS Inst : MS14
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 17 16:42:23 2021 Quant Results File: 072621ALK.RES

Quant Method : J:\MS14\METHODS\SIM\072621ALK.M (RTE Integrator)
Title : PAHS and ALKYLATED HOMOLOGS
Last Update : Mon Jul 26 23:01:28 2021
Response via : Initial Calibration
DataAcq Meth : A_PAHAT05

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Naphthalene-d8	4.48	136	50809m	200.00	ng/ml	-0.05
12) Acenaphthene-d10	6.10	164	25250	200.00	ng/ml	-0.03
22) Phenanthrene-d10	7.34	188	50944	200.00	ng/ml	-0.02
34) Chrysene-d12	9.76	240	44181	200.00	ng/ml	-0.03
44) Perylene-d12	12.54	264	49627	200.00	ng/ml	-0.05
System Monitoring Compounds						
3) 2-Methylnaphthalene-d10	5.15	152	121290	823.44	ng/ml	-0.03
Spiked Amount 200.000			Recovery =	411.72%		
17) Fluorene-d10	6.54	176	134482	883.16	ng/ml	-0.03
Spiked Amount 200.000			Recovery =	441.58%		
33) Fluoranthene-d10	8.33	212	269264	882.20	ng/ml	-0.02
Spiked Amount 200.000			Recovery =	441.10%		
37) Terphenyl-d14	8.66	244	188452	798.22	ng/ml	-0.03
Spiked Amount 200.000			Recovery =	399.11%		
Target Compounds						Qvalue
2) Naphthalene	4.51	128	137344m	540.20	ng/ml	
4) 2-Methylnaphthalene	5.18	142	89365	546.83	ng/ml	95
5) 1-Methylnaphthalene	5.27	142	82090	543.09	ng/ml	97
6) Biphenyl	5.61	154	133482	540.54	ng/ml	99
7) 2,6-Dimethylnaphthalene	5.75	156	83988	573.90	ng/ml	98
13) Acenaphthylene	5.98	152	142459	585.06	ng/ml	99
14) Acenaphthene	6.13	154	87773	571.91	ng/ml	96
15) Dibenzofuran	6.28	168	132251	588.91	ng/ml	80
16) 2,3,5-Trimethylnaphthalene	6.45	170	85654	596.05	ng/ml	89
18) Fluorene	6.56	166	102341	576.21	ng/ml	97
23) Dibenzothiophene	7.26	184	162601	599.99	ng/ml	89
24) Phenanthrene	7.36	178	165350	568.02	ng/ml	98
25) Anthracene	7.40	178	165653	675.95	ng/ml	99
26) Carbazole	7.54	167	88317	348.44	ng/ml	99
27) 1-Methylphenanthrene	7.87	192	125935	588.93	ng/ml	98
32) Fluoranthene	8.34	202	188576	561.92	ng/ml	95
35) Pyrene	8.52	202	204012	594.49	ng/ml	96
38) Benz(a)anthracene	9.75	228	201628	613.36	ng/ml	98
39) Chrysene	9.80	228	181815	589.05	ng/ml	98
45) Benzo(b)fluoranthene	11.61	252	222302	648.85	ng/ml	100
46) Benzo(k)fluoranthene	11.67	252	202686	632.98	ng/ml	100
47) Benzo(e)pyrene	12.26	252	198184	615.28	ng/ml	99
48) Benzo(a)pyrene	12.40	252	190666	635.42	ng/ml	99
49) Perylene	12.61	252	184766	625.14	ng/ml	99
50) Indeno(1,2,3-cd)pyrene	15.05	276	198402	695.84	ng/ml	99
51) Dibenz(a,h)anthracene	15.10	278	191377	649.70	ng/ml	99
52) Benzo(g,h,i)perylene	15.42	276	206295	607.19	ng/ml	100

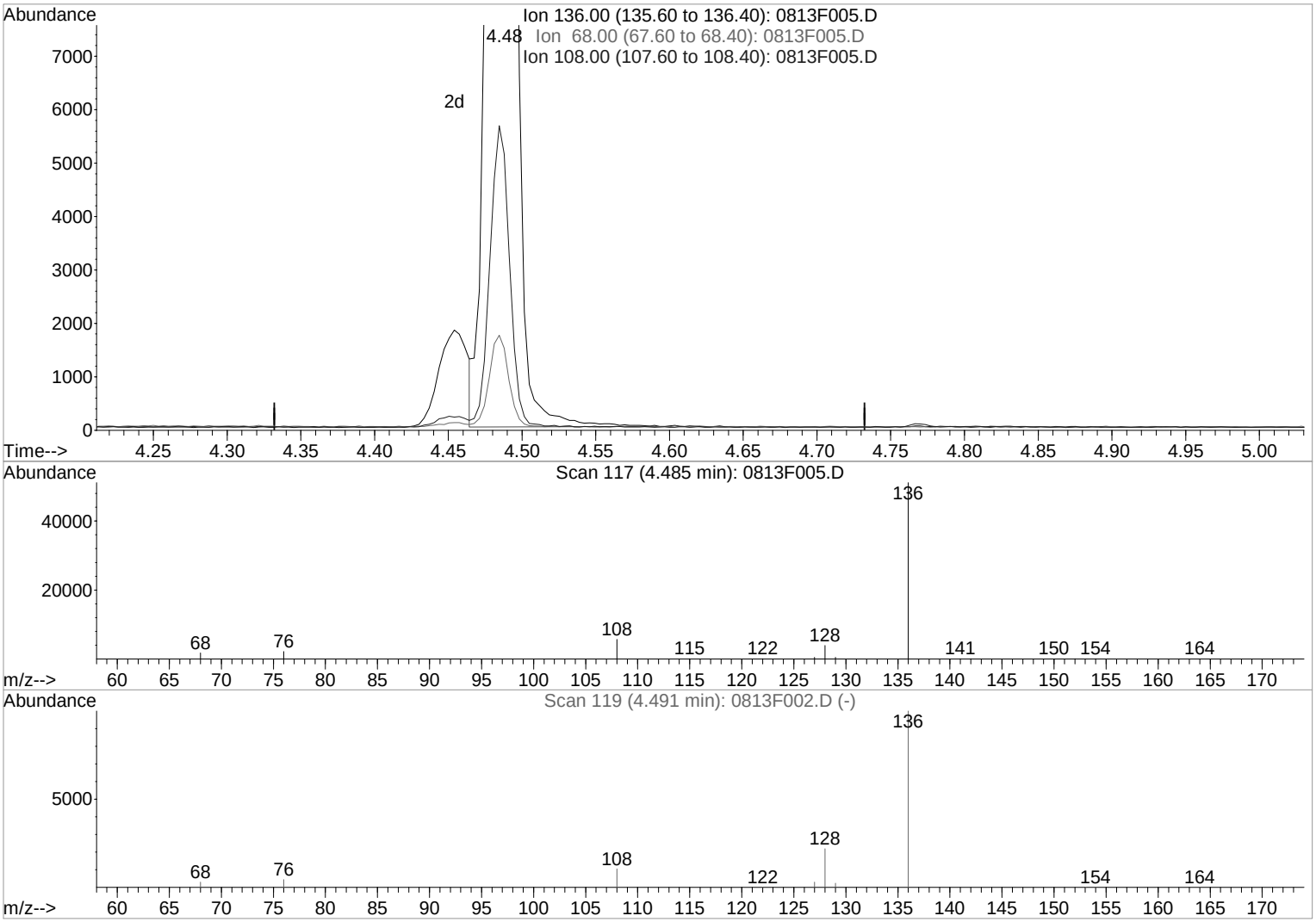
(#) = qualifier out of range (m) = manual integration

Quantitation Report (Qedit)

1st 08/17/21
2nd 08/19/21

Data File : J:\MS14\DATA\081321\0813F005.D Vial: 5
Acq On : 13 Aug 2021 12:18 pm Operator: E.Bruno
Sample : KQ2115373-02 DLCS Inst : MS14
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 17 16:42 2021 Quant Results File: temp.res

Method : J:\MS14\METHODS\SIM\072621ALK.M (RTE Integrator)
Title : PAHS and ALKYLATED HOMOLOGS
Last Update : Mon Jul 26 23:01:28 2021
Response via : Multiple Level Calibration



TIC: 0813F005.D

(1) Naphthalene-d8 (I)

4.48min 200.00ng/ml

response 48333

Ion	Exp%	Act%
136.00	100	100
68.00	3.80	3.35
108.00	9.70	11.03
0.00	0.00	0.00

Manual Integration:

Before

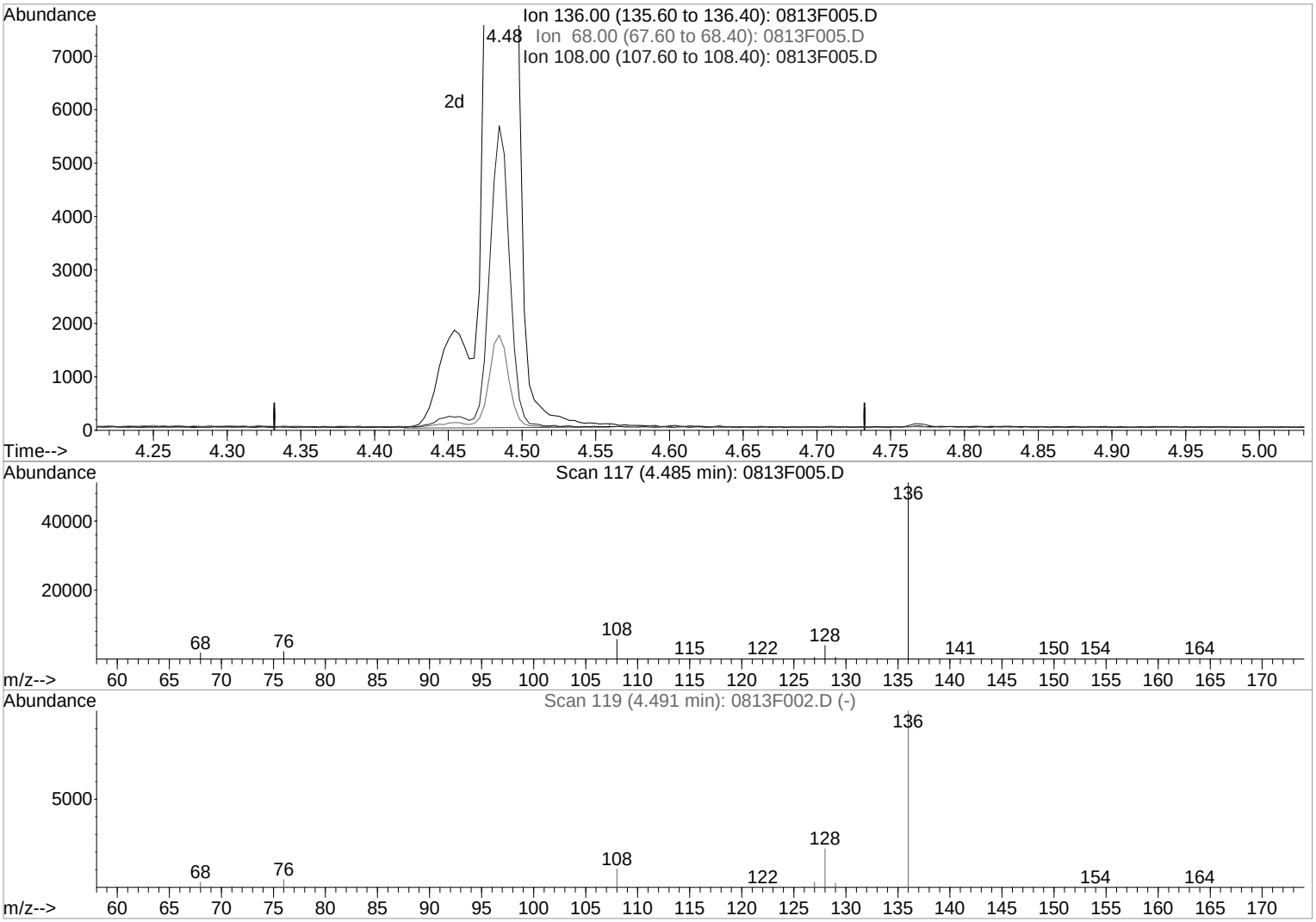
08/17/21

Quantitation Report (Qedit)

1st 08/17/21
2nd 08/19/21

Data File : J:\MS14\DATA\081321\0813F005.D Vial: 5
Acq On : 13 Aug 2021 12:18 pm Operator: E.Bruno
Sample : KQ2115373-02 DLCS Inst : MS14
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 17 16:44 2021 Quant Results File: temp.res

Method : J:\MS14\METHODS\SIM\072621ALK.M (RTE Integrator)
Title : PAHS and ALKYLATED HOMOLOGS
Last Update : Mon Jul 26 23:01:28 2021
Response via : Multiple Level Calibration



TIC: 0813F005.D

(1) Naphthalene-d8 (I)

4.48min 200.00ng/ml m

response 50809

Ion	Exp%	Act%
136.00	100	100
68.00	3.80	3.48
108.00	9.70	11.14
0.00	0.00	0.00

Manual Integration:

After

IC-Incomplete

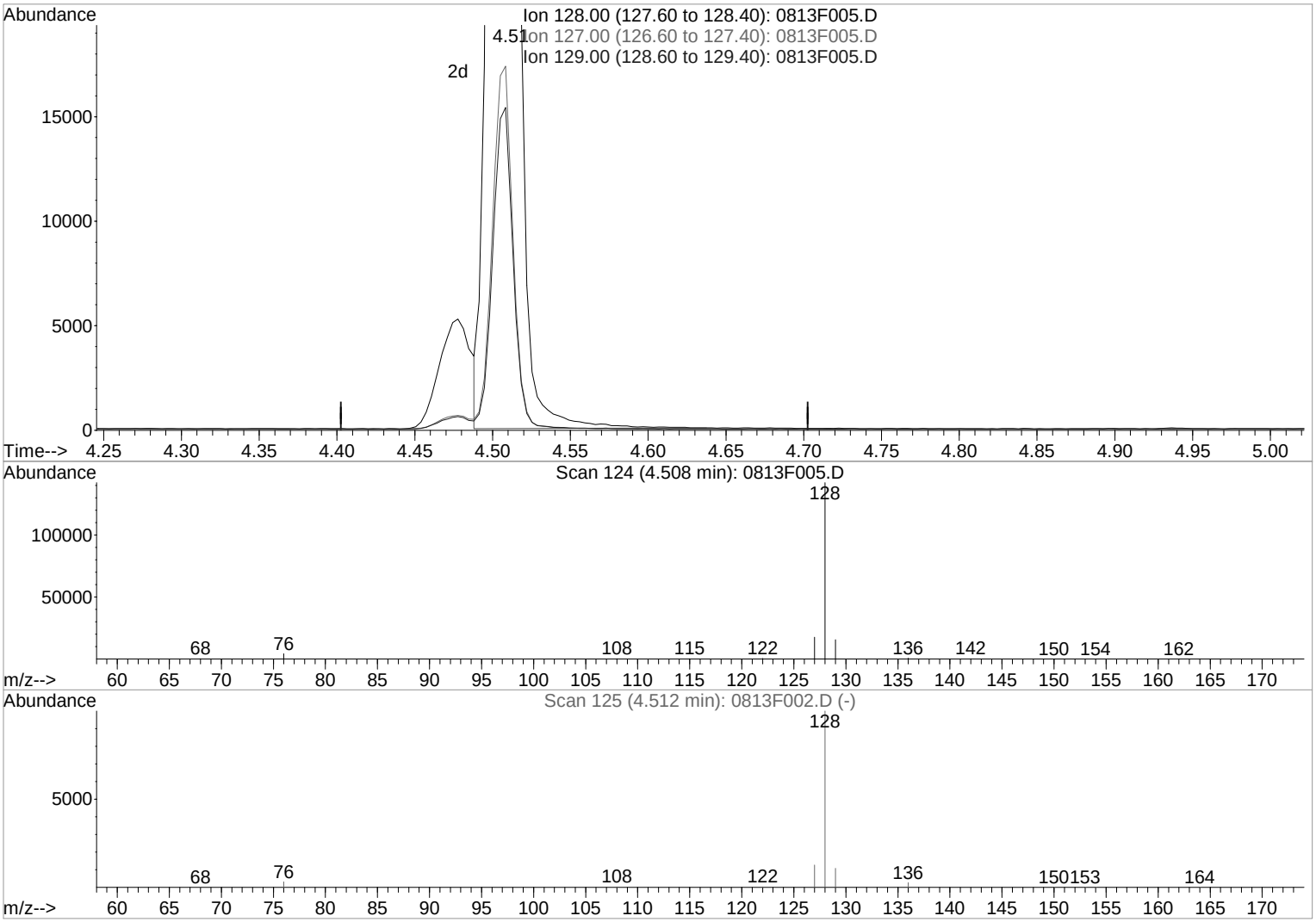
08/17/21

Quantitation Report (Qedit)

1st 08/17/21
2nd 08/19/21

Data File : J:\MS14\DATA\081321\0813F005.D Vial: 5
Acq On : 13 Aug 2021 12:18 pm Operator: E.Bruno
Sample : KQ2115373-02 DLCS Inst : MS14
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 17 16:44 2021 Quant Results File: temp.res

Method : J:\MS14\METHODS\SIM\072621ALK.M (RTE Integrator)
Title : PAHS and ALKYLATED HOMOLOGS
Last Update : Mon Jul 26 23:01:28 2021
Response via : Multiple Level Calibration



TIC: 0813F005.D

(2) Naphthalene (T)

4.51min 511.16ng/ml

response 129961

Ion	Exp%	Act%
128.00	100	100
127.00	12.00	12.21
129.00	10.90	10.81
0.00	0.00	0.00

Manual Integration:

Before

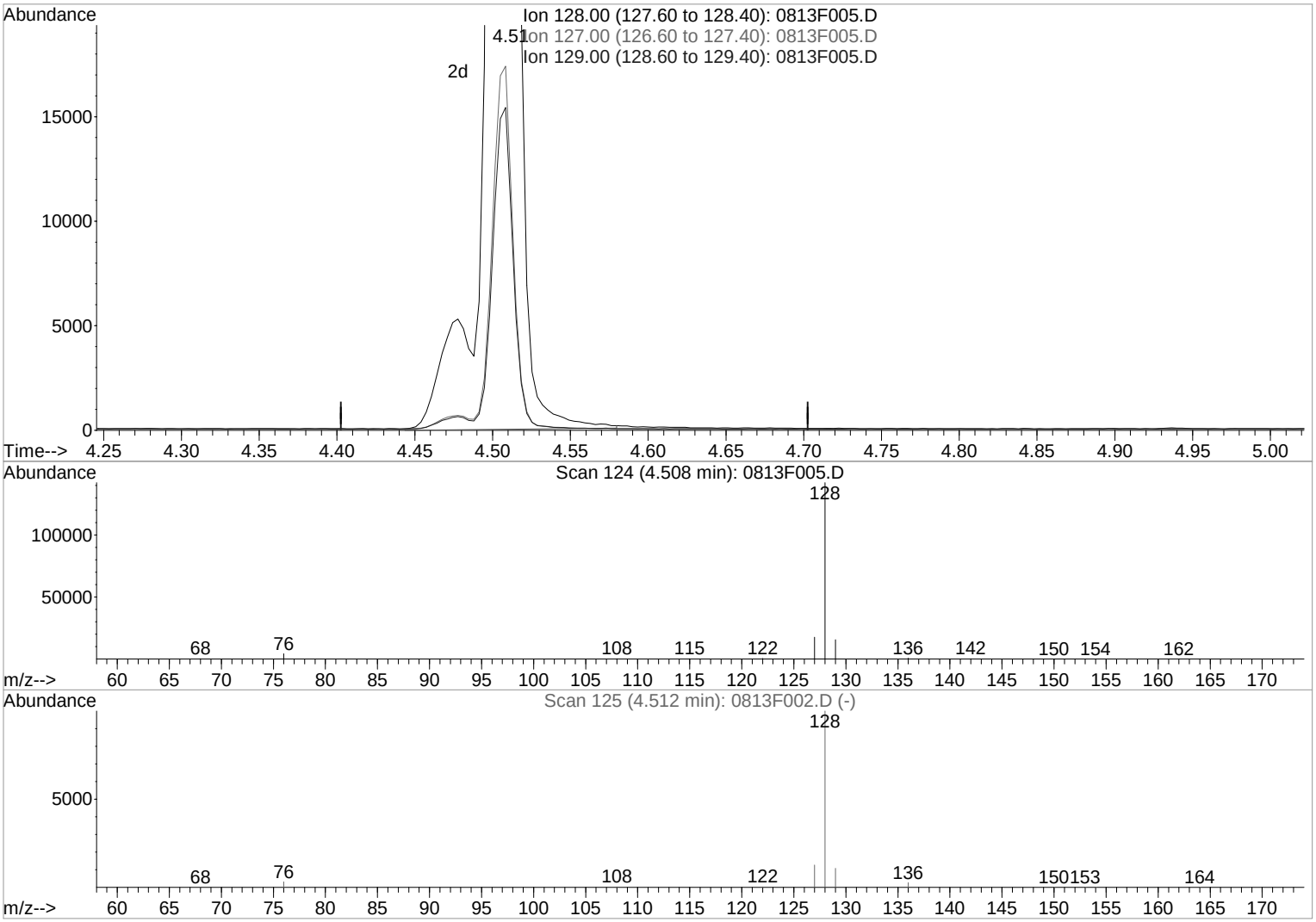
08/17/21

Quantitation Report (Qedit)

1st 08/17/21
2nd 08/19/21

Data File : J:\MS14\DATA\081321\0813F005.D Vial: 5
Acq On : 13 Aug 2021 12:18 pm Operator: E.Bruno
Sample : KQ2115373-02 DLCS Inst : MS14
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 17 16:45 2021 Quant Results File: temp.res

Method : J:\MS14\METHODS\SIM\072621ALK.M (RTE Integrator)
Title : PAHS and ALKYLATED HOMOLOGS
Last Update : Mon Jul 26 23:01:28 2021
Response via : Multiple Level Calibration



TIC: 0813F005.D

(2) Naphthalene (T)

4.51min 540.20ng/ml m

response 137344

Ion	Exp%	Act%
128.00	100	100
127.00	12.00	12.25
129.00	10.90	10.85
0.00	0.00	0.00

Manual Integration:

After

IC-Incomplete

08/17/21

1st 08/17/21
2nd 08/19/21

Validation Report

Data File: J:\MS14\DATA\081321\0813F002.D\
Lab ID: KQ2115583-02
RunType: CCV
Matrix: Water

Date Acquired: 8/13/21 10:58:00
Batch ID: 735140
Analysis Method: 8270D/PAH SIM

Validations

Validation Categories	Pass	Fail
ICAL Analyte Recovery	X	
Second Source ICAL Verification	X	
Internal Standards	X	
Above Highest ICAL Level	X	

Primary Review: _____

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Secondary Review: _____

1st 08/17/21
2nd 08/19/21

Quantitation Report

Data File:	J:\MS14\DATA\081321\0813F002.D\	**Instrument:**	K-MS-14
Acqu Date:	8/13/21 10:58:00	**Vial:**	2
Run Type:	CCV	**Dilution:**	1
Lab ID:	KQ2115583-02	**Raw Units:**	ng/mL

Bottle ID:		**Tier:**	II	**Matrix:**	Water
Prod Code:	PAH SIM	**Collect Date:**	8/4/21	**Receive Date:**	8/6/21

Analysis Lot:	735140	**Prep Lot:**		**Report Group:**	KQ2115583
Analysis	8270D	**Prep Method:**			
		Prep Date:			

Title:	Polycyclic Aromatic Hydrocarbons by GC/MS SIM	**Calibration ID:**	KC2100398
		Report List ID:	18998

Internal Standard Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	Area Criteria
Acenaphthene-d10	6.10		23784	200.00	OK
Chrysene-d12	9.76		41980	200.00	OK
Naphthalene-d8	4.49		45077	200.00	OK
Perylene-d12	12.54		49084	200.00	OK
Phenanthrene-d10	7.34		47120	200.00	OK

Surrogate Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	Rpt?
Fluoranthene-d10	8.33		120055	425.26	Y
Fluorene-d10	6.54		61111	426.06	Y
Terphenyl-d14	8.66		91715	408.84	Y

Target Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	Rpt?
2-Methylnaphthalene	5.19		62941	434.12	Y
Acenaphthene	6.13		58449	404.31	Y
Acenaphthylene	5.98		96904	422.50	Y
Anthracene	7.40		106072	467.96	Y
Benz(a)anthracene	9.75		130317	417.21	Y
Benzo(a)pyrene	12.39		132083	445.05	Y
Benzo(b)fluoranthene	11.61		150001	442.66	Y
Benzo(g,h,i)perylene	15.42		132786	395.15	Y
Benzo(k)fluoranthene	11.68		142643	450.39	Y
Chrysene	9.80		122192	416.64	Y
Dibenz(a,h)anthracene	15.10		125133	429.51	Y
Dibenzofuran	6.28		89689	424.00	Y
Fluoranthene	8.34		128458	413.84	Y

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

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1st 08/17/21

2nd 08/19/21

Data File:	J:\MS14\DATA\081321\0813F002.D\	**Instrument:**	K-MS-14
Acqu Date:	8/13/21 10:58:00	**Vial:**	2
Run Type:	CCV	**Dilution:**	1
Lab ID:	KQ2115583-02	**Raw Units:**	ng/mL

Target Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	Rpt?
Fluorene	6.57		69710	416.68	Y
Indeno(1,2,3-cd)pyrene	15.05		127406	451.79	Y
Naphthalene	4.51		91877	407.32	Y
Phenanthrene	7.36		109361	406.17	Y
Pyrene	8.52		135701	416.16	Y

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

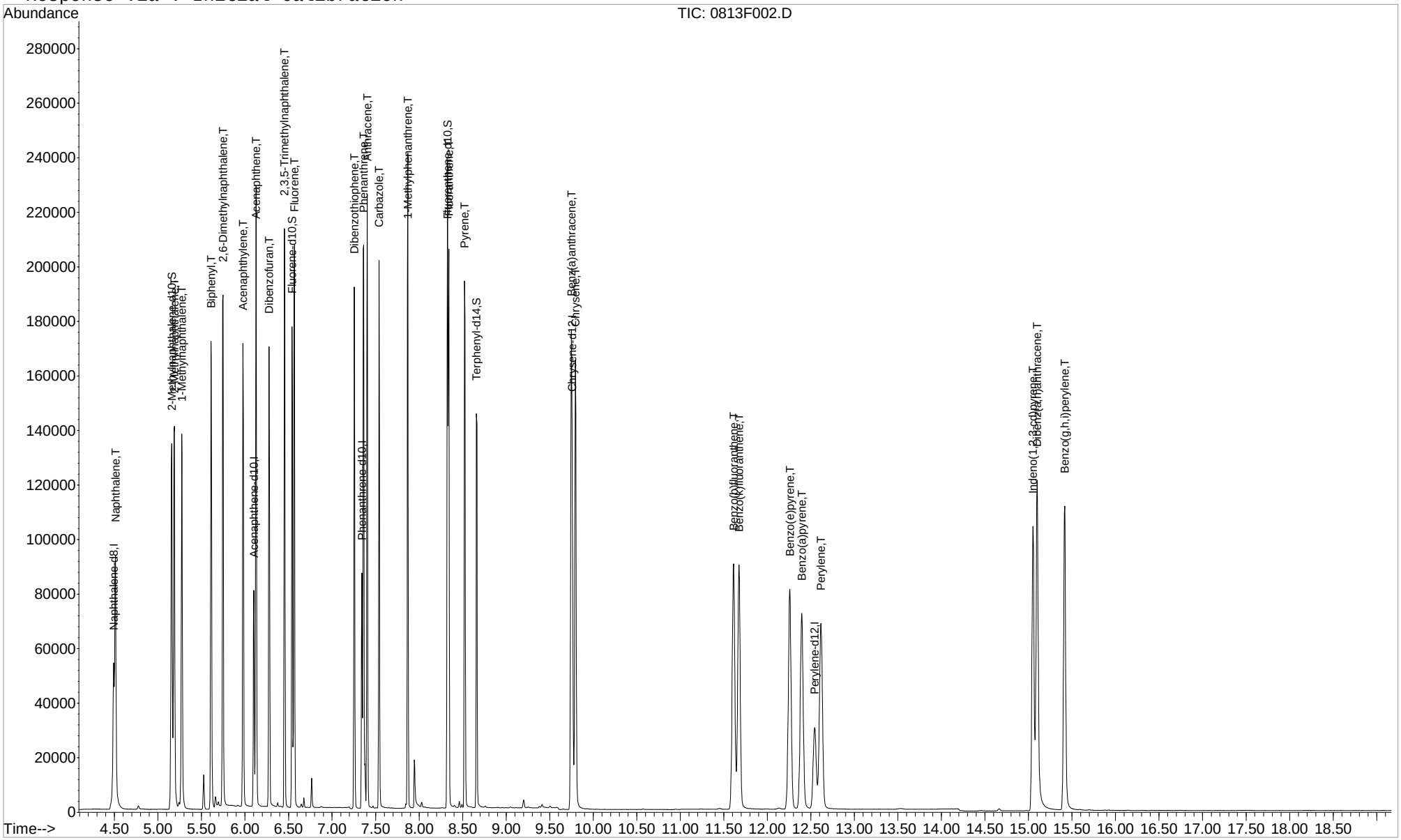
D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

1st 08/17/21
2nd 08/19/21

Data File : J:\MS14\DATA\081321\0813F002.D Vial: 2
Acq On : 13 Aug 2021 10:58 am Operator: E.Bruno
Sample : SIM-PAH @ .4ug/mL | SVM66-43B Inst : MS14
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 17 14:27 2021 Quant Results File: 072621ALK.RES

Method : J:\MS14\METHODS\SIM\072621ALK.M (RTE Integrator)
Title : PAHS and ALKYLATED HOMOLOGS
Last Update : Mon Jul 26 23:01:28 2021
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

1st 08/17/21
2nd 08/19/21

Data File : J:\MS14\DATA\081321\0813F002.D Vial: 2
Acq On : 13 Aug 2021 10:58 am Operator: E.Bruno
Sample : SIM-PAH @ .4ug/mL | SVM66-43B Inst : MS14
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 17 14:27:13 2021 Quant Results File: 072621ALK.RES

Quant Method : J:\MS14\METHODS\SIM\072621ALK.M (RTE Integrator)
Title : PAHS and ALKYLATED HOMOLOGS
Last Update : Tue Aug 17 11:40:03 2021
Response via : Initial Calibration
DataAcq Meth : A_PAHAT05

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Naphthalene-d8	4.49	136	45077	200.00	ng/ml	-0.04
12) Acenaphthene-d10	6.10	164	23784	200.00	ng/ml	-0.03
22) Phenanthrene-d10	7.34	188	47120	200.00	ng/ml	-0.02
34) Chrysene-d12	9.76	240	41980	200.00	ng/ml	-0.03
44) Perylene-d12	12.54	264	49084	200.00	ng/ml	-0.05
System Monitoring Compounds						
3) 2-Methylnaphthalene-d10	5.16	152	57784	442.18	ng/ml	-0.03
Spiked Amount 200.000			Recovery = 221.09%			
17) Fluorene-d10	6.54	176	61111	426.06	ng/ml	-0.03
Spiked Amount 200.000			Recovery = 213.03%			
33) Fluoranthene-d10	8.33	212	120055	425.26	ng/ml	-0.02
Spiked Amount 200.000			Recovery = 212.63%			
37) Terphenyl-d14	8.66	244	91715	408.84	ng/ml	-0.02
Spiked Amount 200.000			Recovery = 204.42%			
Target Compounds						Qvalue
2) Naphthalene	4.51	128	91877	407.32	ng/ml	99
4) 2-Methylnaphthalene	5.19	142	62941	434.12	ng/ml	95
5) 1-Methylnaphthalene	5.27	142	57214	426.65	ng/ml	94
6) Biphenyl	5.61	154	93282	425.78	ng/ml	99
7) 2,6-Dimethylnaphthalene	5.75	156	57159	440.24	ng/ml	99
13) Acenaphthylene	5.98	152	96904	422.50	ng/ml	99
14) Acenaphthene	6.13	154	58449	404.31	ng/ml	94
15) Dibenzofuran	6.28	168	89689	424.00	ng/ml	77
16) 2,3,5-Trimethylnaphthalene	6.45	170	58621	433.08	ng/ml	85
18) Fluorene	6.57	166	69710	416.68	ng/ml	99
23) Dibenzothiophene	7.26	184	107814	430.12	ng/ml	92
24) Phenanthrene	7.36	178	109361	406.17	ng/ml	100
25) Anthracene	7.40	178	106072	467.96	ng/ml	99
26) Carbazole	7.54	167	100974	430.70	ng/ml	99
27) 1-Methylphenanthrene	7.87	192	83265	420.98	ng/ml	98
32) Fluoranthene	8.34	202	128458	413.84	ng/ml	94
35) Pyrene	8.52	202	135701	416.16	ng/ml	96
38) Benz(a)anthracene	9.75	228	130317	417.21	ng/ml	99
39) Chrysene	9.80	228	122192	416.64	ng/ml	98
45) Benzo(b)fluoranthene	11.61	252	150001	442.66	ng/ml	100
46) Benzo(k)fluoranthene	11.68	252	142643	450.39	ng/ml	100
47) Benzo(e)pyrene	12.26	252	139210	436.97	ng/ml	99
48) Benzo(a)pyrene	12.39	252	132083	445.05	ng/ml	99
49) Perylene	12.62	252	128615	439.97	ng/ml	99
50) Indeno(1,2,3-cd)pyrene	15.05	276	127406	451.79	ng/ml	99
51) Dibenz(a,h)anthracene	15.10	278	125133	429.51	ng/ml	99
52) Benzo(g,h,i)perylene	15.42	276	132786	395.15	ng/ml	98

(#) = qualifier out of range (m) = manual integration

1st CO 09/09/21
2nd 09/15/21

Validation Report

Data File: J:\MS14\DATA\082421\0824F002.D\
Lab ID: KQ2116621-02
RunType: CCV
Matrix: Soil

Date Acquired: 8/24/21 14:41:00
Batch ID: 736775
Analysis Method: 8270D/PAH SIM

Validations

Validation Categories	Pass	Fail
ICAL Analyte Recovery	X	
Second Source ICAL Verification	X	
Internal Standards	X	
Above Highest ICAL Level	X	

Primary Review: _____

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Secondary Review: _____

1st CO 09/09/21
2nd 09/15/21

Quantitation Report

Data File:	J:\MS14\DATA\082421\0824F002.D\	**Instrument:**	K-MS-14
Acqu Date:	8/24/21 14:41:00	**Vial:**	2
Run Type:	CCV	**Dilution:**	1
Lab ID:	KQ2116621-02	**Raw Units:**	ng/mL

Bottle ID:		**Tier:**	IV	**Matrix:**	Soil
Prod Code:	PAH SIM	**Collect Date:**	8/3/21	**Receive Date:**	8/4/21

Analysis Lot:	736775	**Prep Lot:**		**Report Group:**	KQ2116621
Analysis	8270D	**Prep Method:**			
		Prep Date:			

Title:	Polycyclic Aromatic Hydrocarbons by GC/MS SIM	**Calibration ID:**	KC2100398
		Report List ID:	18909

Internal Standard Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	Area Criteria
Acenaphthene-d10	6.09		21698	200.00	OK
Chrysene-d12	9.75		42694	200.00	OK
Naphthalene-d8	4.48		41024	200.00	OK
Perylene-d12	12.52		49214	200.00	OK
Phenanthrene-d10	7.33		43223	200.00	OK

Surrogate Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	Rpt?
Fluoranthene-d10	8.32		117538	453.88	Y
Fluorene-d10	6.53		56934	435.10	Y
Terphenyl-d14	8.65		92702	406.33	Y

Target Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	Rpt?
2-Methylnaphthalene	5.18		58903	446.40	Y
Acenaphthene	6.12		54595	413.96	Y
Acenaphthylene	5.97		89753	428.94	Y
Anthracene	7.40		99460	478.35	Y
Benz(a)anthracene	9.73		131196	413.00	Y
Benzo(a)pyrene	12.36		129134	433.96	Y
Benzo(b)fluoranthene	11.59		151100	444.73	Y
Benzo(g,h,i)perylene	15.40		130668	387.82	Y
Benzo(k)fluoranthene	11.65		142104	447.51	Y
Chrysene	9.78		123226	413.14	Y
Dibenz(a,h)anthracene	15.08		117190	401.19	Y
Fluoranthene	8.33		127560	448.00	Y
Fluorene	6.56		65088	426.46	Y

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

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1st CO 09/09/21

2nd 09/15/21

Data File:	J:\MS14\DATA\082421\0824F002.D\	**Instrument:**	K-MS-14
Acqu Date:	8/24/21 14:41:00	**Vial:**	2
Run Type:	CCV	**Dilution:**	1
Lab ID:	KQ2116621-02	**Raw Units:**	ng/mL

Target Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	Rpt?
Indeno(1,2,3-cd)pyrene	15.04		125983	445.56	Y
Naphthalene	4.50		85851	418.21	Y
Phenanthrene	7.35		102816	416.29	Y
Pyrene	8.51		133856	403.64	Y

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

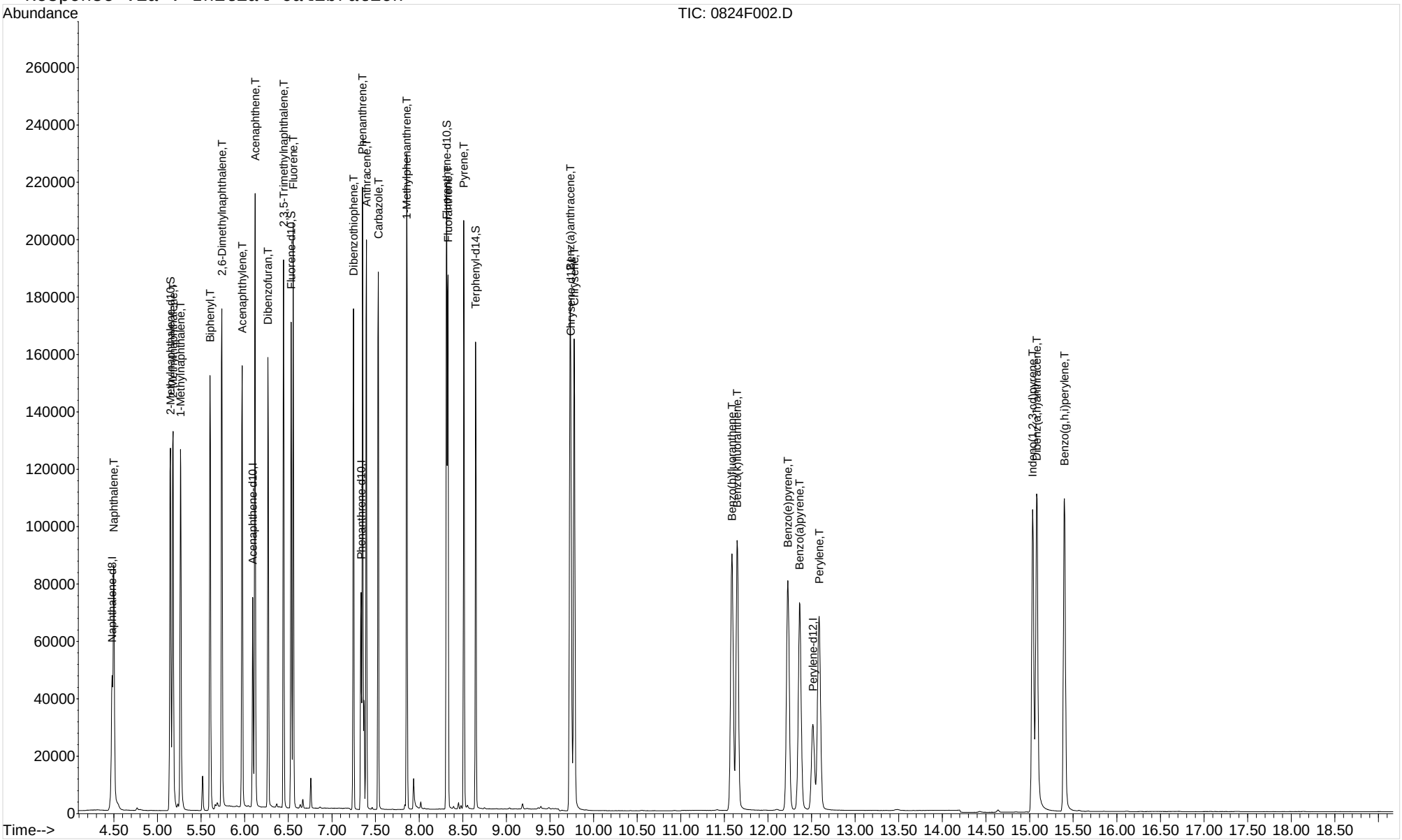
*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Quantitation Report (QT Reviewed)

1st 09/09/21
2nd 09/15/21

Data File : J:\MS14\DATA\082421\0824F002.D Vial: 2
Acq On : 24 Aug 2021 2:41 pm Operator: CSD
Sample : SIM-PAH @ .4ug/mL | SVM66-54K Inst : MS14
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 24 15:07 2021 Quant Results File: 072621ALK.RES

Method : J:\MS14\METHODS\SIM\072621ALK.M (RTE Integrator)
Title : PAHS and ALKYLATED HOMOLOGS
Last Update : Tue Aug 24 11:05:11 2021
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

1st CO 09/09/21
2nd 09/15/21

Data File : J:\MS14\DATA\082421\0824F002.D Vial: 2
Acq On : 24 Aug 2021 2:41 pm Operator: CSD
Sample : SIM-PAH @ .4ug/mL | SVM66-54K Inst : MS14
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 24 15:07:58 2021 Quant Results File: 072621ALK.RES

Quant Method : J:\MS14\METHODS\SIM\072621ALK.M (RTE Integrator)
Title : PAHS and ALKYLATED HOMOLOGS
Last Update : Tue Aug 24 11:05:11 2021
Response via : Initial Calibration
DataAcq Meth : A_PAHAT05

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Naphthalene-d8	4.48	136	41024	200.00	ng/ml	-0.05
12) Acenaphthene-d10	6.09	164	21698	200.00	ng/ml	-0.04
22) Phenanthrene-d10	7.33	188	43223	200.00	ng/ml	-0.03
34) Chrysene-d12	9.75	240	42694	200.00	ng/ml	-0.05
44) Perylene-d12	12.52	264	49214	200.00	ng/ml	-0.08
System Monitoring Compounds						
3) 2-Methylnaphthalene-d10	5.15	152	54028	454.29	ng/ml	-0.04
Spiked Amount 200.000			Recovery = 227.15%			
17) Fluorene-d10	6.53	176	56934	435.10	ng/ml	-0.03
Spiked Amount 200.000			Recovery = 217.55%			
33) Fluoranthene-d10	8.32	212	117538	453.88	ng/ml	-0.03
Spiked Amount 200.000			Recovery = 226.94%			
37) Terphenyl-d14	8.65	244	92702	406.33	ng/ml	-0.04
Spiked Amount 200.000			Recovery = 203.16%			
Target Compounds						Qvalue
2) Naphthalene	4.50	128	85851	418.21	ng/ml	99
4) 2-Methylnaphthalene	5.18	142	58903	446.40	ng/ml	96
5) 1-Methylnaphthalene	5.26	142	53707	440.06	ng/ml	94
6) Biphenyl	5.60	154	83147	417.02	ng/ml	99
7) 2,6-Dimethylnaphthalene	5.74	156	53453	452.37	ng/ml	96
13) Acenaphthylene	5.97	152	89753	428.94	ng/ml	99
14) Acenaphthene	6.12	154	54595	413.96	ng/ml	94
15) Dibenzofuran	6.27	168	82796	429.04	ng/ml	70
16) 2,3,5-Trimethylnaphthalene	6.45	170	60531	490.18	ng/ml	94
18) Fluorene	6.56	166	65088	426.46	ng/ml	97
23) Dibenzothiophene	7.25	184	101625	441.98	ng/ml	93
24) Phenanthrene	7.35	178	102816	416.29	ng/ml	99
25) Anthracene	7.40	178	99460	478.35	ng/ml	99
26) Carbazole	7.53	167	99368	462.06	ng/ml	99
27) 1-Methylphenanthrene	7.86	192	80338	442.81	ng/ml	97
32) Fluoranthene	8.33	202	127560	448.00	ng/ml	93
35) Pyrene	8.51	202	133856	403.64	ng/ml	98
38) Benz(a)anthracene	9.73	228	131196	413.00	ng/ml	98
39) Chrysene	9.78	228	123226	413.14	ng/ml	99
45) Benzo(b)fluoranthene	11.59	252	151100	444.73	ng/ml	99
46) Benzo(k)fluoranthene	11.65	252	142104	447.51	ng/ml	100
47) Benzo(e)pyrene	12.23	252	139311	436.13	ng/ml	99
48) Benzo(a)pyrene	12.36	252	129134	433.96	ng/ml	99
49) Perylene	12.59	252	125749	429.03	ng/ml	99
50) Indeno(1,2,3-cd)pyrene	15.04	276	125983	445.56	ng/ml	99
51) Dibenz(a,h)anthracene	15.08	278	117190	401.19	ng/ml	99
52) Benzo(g,h,i)perylene	15.40	276	130668	387.82	ng/ml	99

(#) = qualifier out of range (m) = manual integration

1st 08/17/21
2nd 08/19/21

Validation Report

Data File: J:\MS14\DATA\081321\0813F001.D\
Lab ID: KQ2115583-01
RunType: TUNE
Matrix: Water

Date Acquired: 8/13/21 10:31:00
Batch ID: 735140
Analysis Method: 8270D/PAH SIM

Validations

Validation Categories	Pass	Fail
Tune Ion Ratio	X	

Primary Review: _____

Secondary Review: _____

1st 08/17/21
2nd 08/19/21

Quantitation Report

Data File:	J:\MS14\DATA\081321\0813F001.D\	**Instrument:**	K-MS-14
Acqu Date:	8/13/21 10:31:00	**Vial:**	1
Run Type:	TUNE	**Dilution:**	1
Lab ID:	KQ2115583-01	**Raw Units:**	

Bottle ID:		**Tier:**	II	**Matrix:**	Water
Prod Code:	PAH SIM	**Collect Date:**	8/4/21	**Receive Date:**	8/6/21

Analysis Lot:	735140	**Prep Lot:**		**Report Group:**	KQ2115583
Analysis	8270D	**Prep Method:**			
		Prep Date:			

Title:	Polycyclic Aromatic Hydrocarbons by GC/MS SIM	**Calibration ID:**	KC2100398
		Report List ID:	18998

Tune Results

Target Mass	Relative to Mass	Lower Limit%	Upper Limit%	Relative Abundance %	Raw Abundance	Result Pass/Fail
51	198	10	80	26.29	167296	Pass
68	69	0	2	1.77	3205	Pass
69	198	0	100	28.44	180992	Pass
70	69	0	2	0.56	1010	Pass
127	198	10	80	43.38	276096	Pass
197	198	0	2	0.44	2813	Pass
198	442	30	100	75.13	636416	Pass
199	198	5	9	6.75	42952	Pass
275	198	10	60	28.95	184256	Pass
365	442	1	50	4.12	34904	Pass
441	443	0.01	100	72.63	118712	Pass
442	442	30	100	100.00	847104	Pass
443	442	15	24	19.30	163456	Pass

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

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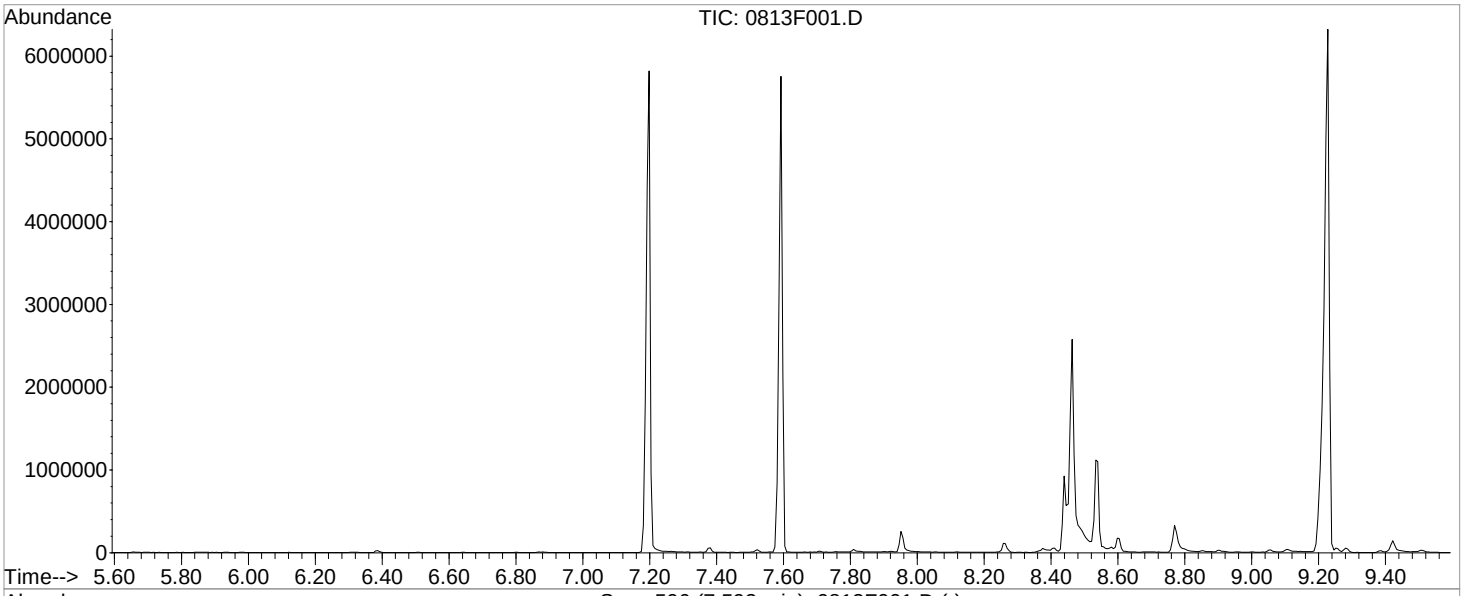
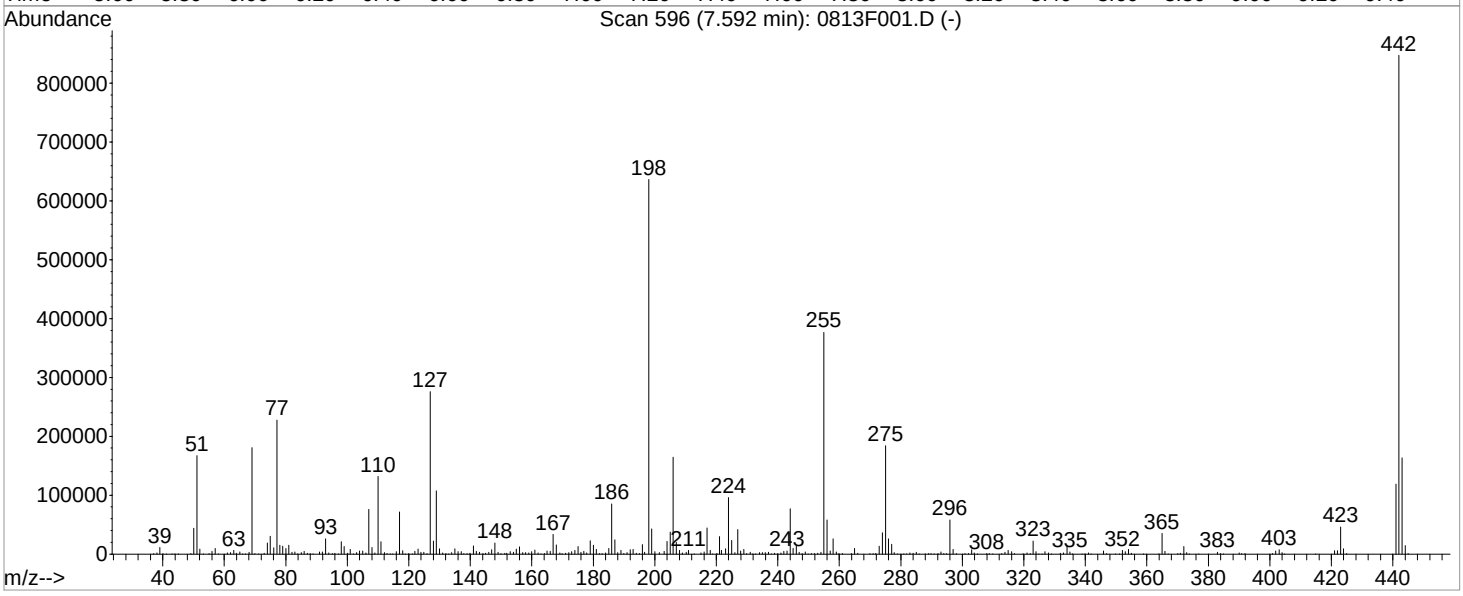
1st 08/17/21
2nd 08/19/21

Data File : J:\MS14\DATA\081321\0813F001.D Vial: 1
Acq On : 13 Aug 2021 10:31 am Operator: E.Bruno
Sample : DFTPP @ 10ug/mL SVM65-91F Inst : MS14
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Method : J:\MS14\METHODS\SIM\072621ALK.M (RTE Integrator)
Title : PAHS and ALKYLATED HOMOLOGS





Spectrum Information: Scan 596

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	26.3	167296	PASS
68	69	0.00	2	1.8	3205	PASS
69	198	0.00	100	28.4	180992	PASS
70	69	0.00	2	0.6	1010	PASS
127	198	10	80	43.4	276096	PASS
197	198	0.00	2	0.4	2813	PASS
198	442	30	100	75.1	636416	PASS
199	198	5	9	6.7	42952	PASS
275	198	10	60	29.0	184256	PASS
365	442	1	50	4.1	34904	PASS
441	443	0.01	100	72.6	118712	PASS
442	442	30	100	100.0	847104	PASS
443	442	15	24	19.3	163456	PASS

1st 08/17/21
2nd 08/19/21

Scan 596 (7.592 min): 0813F001.D
DFTPP @ 10ug/mL SVM65-91F
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
37.10	810	52.10	8503	66.00	529	78.10	15235
38.10	1876	53.20	151	66.90	366	79.00	13324
39.10	11063	55.05	763	68.10	3205	80.10	9388
40.10	428	56.00	4474	69.00	180992	81.00	15021
41.20	202	57.10	9720	70.00	1010	82.00	3039
43.00	48	58.10	473	71.20	171	83.00	3558
43.90	239	61.00	1891	73.00	1200	83.90	218
45.10	212	62.00	2517	74.00	18616	85.00	2290
49.15	889	63.10	6456	75.00	30016	86.00	4482
50.10	43848	63.90	1161	76.10	10756	87.00	1646
51.10	167296	65.05	3429	77.10	227584	88.00	612

Scan 596 (7.592 min): 0813F001.D
DFTPP @ 10ug/mL SVM65-91F
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
88.90	275	101.00	7768	112.10	2542	123.00	8301
91.00	3416	102.00	474	112.90	934	124.00	3001
91.90	3581	103.00	2385	114.00	158	124.90	2939
93.00	25824	104.00	5355	114.80	314	125.90	764
94.00	1693	105.00	5393	116.00	4256	127.00	276096
95.10	748	106.10	1967	117.00	71280	128.00	22304
96.00	1419	107.00	75944	118.00	5542	129.00	107320
97.10	397	108.00	11095	118.90	511	130.00	9024
98.00	20744	109.00	2188	120.00	1015	131.00	1807
99.00	12672	110.00	132032	121.10	325	132.10	823
100.10	1228	111.00	20888	122.00	4852	133.00	535

Scan 596 (7.592 min): 0813F001.D
DFTPP @ 10ug/mL SVM65-91F
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
134.00	2584	145.00	1169	156.00	12157	166.95	33550
135.00	8981	146.00	2851	157.00	2373	168.00	15654
136.00	3909	147.00	7197	158.00	2380	169.10	2181
137.10	3951	148.00	18976	159.00	1903	169.90	994
137.90	863	149.00	2987	160.00	4030	171.00	1369
138.90	651	150.00	923	161.00	6848	172.00	2673
139.90	1385	151.20	1633	162.00	2018	173.00	3925
141.00	13897	151.80	1148	163.00	428	174.00	6371
142.00	4426	153.00	4061	164.10	709	175.00	12555
143.00	2981	154.00	3148	165.00	5452	176.00	3156
144.10	907	155.00	8562	166.00	4555	176.90	4673

Scan 596 (7.592 min): 0813F001.D
DFTPP @ 10ug/mL SVM65-91F
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
177.90	1696	189.00	6198	200.00	3961	212.80	318
179.00	22448	189.90	901	201.50	2658	215.00	1671
180.00	14720	191.00	2653	203.00	4513	216.00	3622
181.00	7671	192.00	7141	204.00	21552	217.00	44072
182.00	1099	193.00	8070	205.00	37320	218.00	6034
182.90	581	194.00	1640	206.00	164224	218.90	496
184.00	1894	195.00	922	207.00	19665	220.20	749
185.00	9634	196.00	16034	208.00	6317	221.00	29592
186.00	85216	196.70	2813	209.00	1807	221.70	6208
187.00	24120	198.00	636416	210.20	3201	223.00	9130
188.00	2521	199.00	42952	211.00	6102	224.00	96160

Scan 596 (7.592 min): 0813F001.D
DFTPP @ 10ug/mL SVM65-91F
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
225.00	23040	235.90	2441	247.00	3048	258.00	25912
226.00	2254	237.00	3084	247.90	780	259.00	3558
227.00	41680	237.90	450	248.90	3319	259.90	829
227.90	5388	238.90	1323	249.90	312	261.00	798
228.90	7814	240.00	1024	250.90	761	263.95	705
229.90	1001	241.00	2144	251.90	907	265.00	9734
231.00	3240	242.00	4778	253.00	1508	265.95	1349
231.90	525	243.00	5450	254.00	2969	269.90	648
232.80	569	244.00	77184	255.00	376768	271.00	750
234.00	2272	245.00	9655	256.00	58136	271.80	1061
235.00	2713	246.00	14135	257.00	5119	273.00	13186

Scan 596 (7.592 min): 0813F001.D

1st 08/17/21
2nd 08/19/21

DFTPP @ 10ug/mL SVM65-91F
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
274.00	36088	286.00	448	298.00	704	314.90	6422
275.00	184256	287.90	254	300.90	763	316.00	3845
276.00	25664	289.00	639	302.00	1002	317.00	709
277.00	16488	289.80	695	303.00	7414	319.80	165
277.90	2717	290.90	499	303.90	1763	321.00	2020
278.90	542	292.10	603	304.90	234	322.10	1102
281.00	159	293.00	3815	307.90	932	323.00	21856
281.90	239	294.00	1049	308.80	641	324.00	3925
283.00	1846	294.90	1118	309.90	568	324.90	297
284.00	1265	296.00	57784	312.80	586	325.90	491
285.00	3283	297.00	7648	313.90	3205	326.90	3944

Scan 596 (7.592 min): 0813F001.D
DFTPP @ 10ug/mL SVM65-91F
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
328.00	2116	345.90	5012	365.90	4628	390.00	1833
328.90	214	346.90	1119	366.90	446	390.90	1056
331.90	1657	349.90	196	370.00	725	391.90	921
332.90	1816	351.10	359	370.90	1400	400.80	935
334.00	13570	352.00	6237	372.00	12974	401.90	5445
335.00	3469	353.00	4339	373.00	2491	403.00	7462
335.80	388	354.00	7785	373.80	434	404.00	2454
338.90	355	355.00	1584	376.90	241	404.80	254
339.90	313	358.90	570	383.00	3104	414.90	349
341.00	2204	363.90	263	384.00	984	421.00	5918
341.90	536	364.90	34904	384.90	320	422.00	5992

Scan 596 (7.592 min): 0813F001.D
DFTPP @ 10ug/mL SVM65-91F
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
423.00	45832						
424.00	8835						
425.00	997						
441.00	118712						
442.00	847104						
443.00	163456						
444.00	14647						
445.00	953						

1st CO 09/09/21
2nd 09/15/21

Validation Report

Data File: J:\MS14\DATA\082421\0824F001.D\
Lab ID: KQ2116621-01
RunType: TUNE
Matrix: Soil

Date Acquired: 8/24/21 14:15:00
Batch ID: 736775
Analysis Method: 8270D/PAH SIM

Validations

Validation Categories	Pass	Fail
Tune Ion Ratio	X	

Primary Review: _____

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Secondary Review: _____

1st CO 09/09/21
2nd 09/15/21

Quantitation Report

Data File:	J:\MS14\DATA\082421\0824F001.D\	**Instrument:**	K-MS-14
Acqu Date:	8/24/21 14:15:00	**Vial:**	1
Run Type:	TUNE	**Dilution:**	1
Lab ID:	KQ2116621-01	**Raw Units:**	

Bottle ID:		**Tier:**	IV	**Matrix:**	Soil
Prod Code:	PAH SIM	**Collect Date:**	8/3/21	**Receive Date:**	8/4/21

Analysis Lot:	736775	**Prep Lot:**		**Report Group:**	KQ2116621
Analysis	8270D	**Prep Method:**			
		Prep Date:			

Title:	Polycyclic Aromatic Hydrocarbons by GC/MS SIM	**Calibration ID:**	KC2100398
		Report List ID:	18909

Tune Results

Target Mass	Relative to Mass	Lower Limit%	Upper Limit%	Relative Abundance %	Raw Abundance	Result Pass/Fail
51	198	10	80	24.57	142400	Pass
68	69	0	2	1.50	2422	Pass
69	198	0	100	27.90	161700	Pass
70	69	0	2	0.61	985	Pass
127	198	10	80	43.56	252416	Pass
197	198	0	2	0.45	2592	Pass
198	442	30	100	67.73	579520	Pass
199	198	5	9	7.14	41384	Pass
275	198	10	60	30.46	176512	Pass
365	442	1	50	4.06	34728	Pass
441	443	0.01	100	65.69	113600	Pass
442	442	30	100	100.00	855680	Pass
443	442	15	24	20.21	172928	Pass

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

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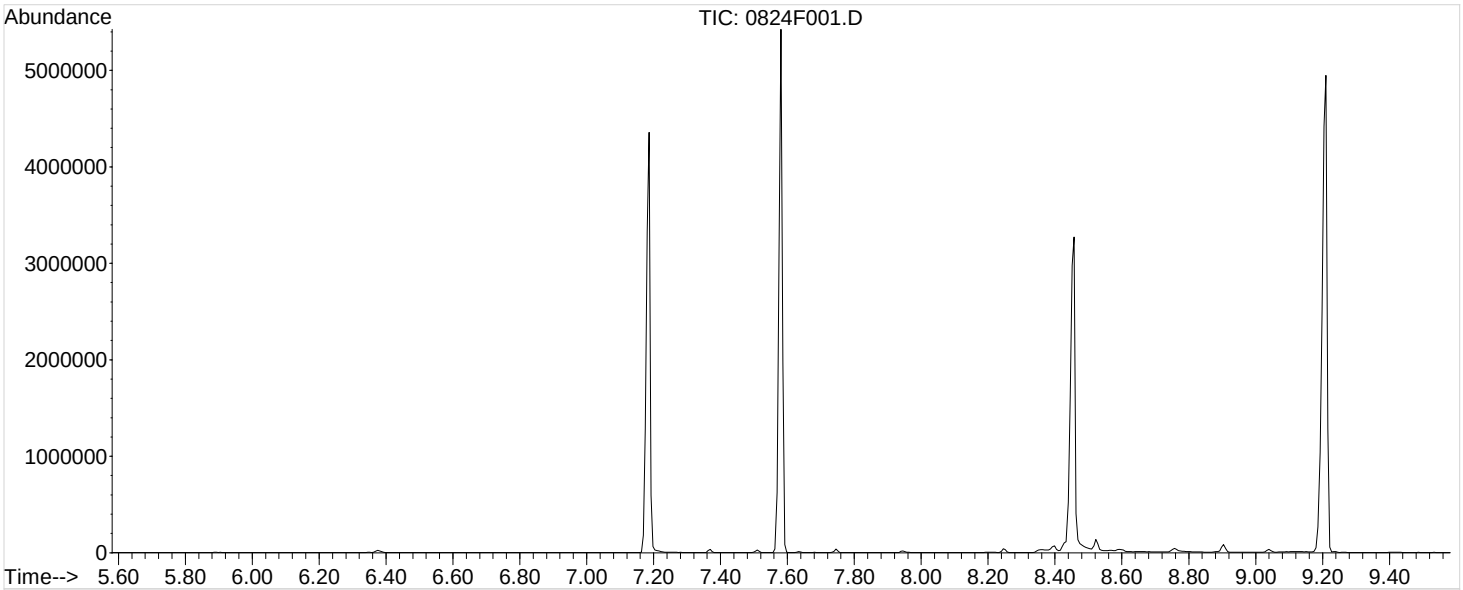
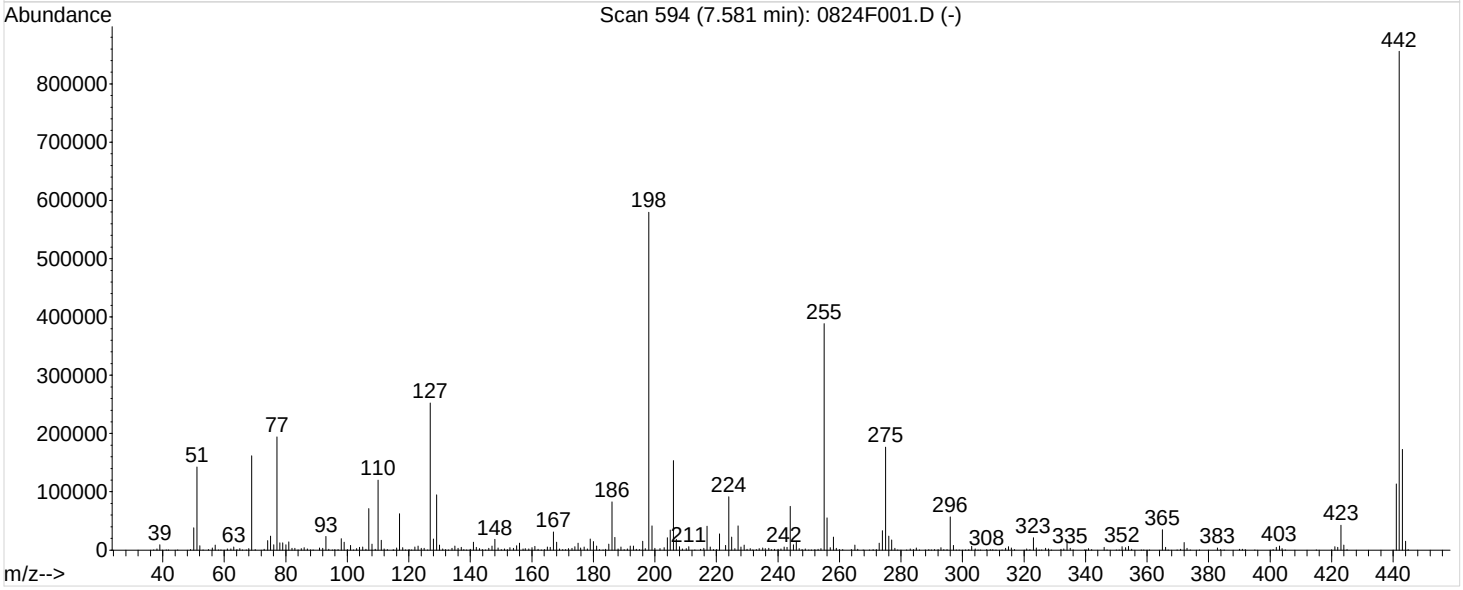
1st CO 09/09/21
2nd 09/15/21

Data File : J:\MS14\DATA\082421\0824F001.D Vial: 1
Acq On : 24 Aug 2021 2:15 pm Operator: CSD
Sample : DFTPP @ 10ug/mL SVM66-47A Inst : MS14
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Method : J:\MS14\METHODS\SIM\072621ALK.M (RTE Integrator)
Title : PAHS and ALKYLATED HOMOLOGS





Spectrum Information: Scan 594

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	24.6	142400	PASS
68	69	0.00	2	1.5	2422	PASS
69	198	0.00	100	27.9	161700	PASS
70	69	0.00	2	0.6	985	PASS
127	198	10	80	43.6	252416	PASS
197	198	0.00	2	0.4	2592	PASS
198	442	30	100	67.7	579520	PASS
199	198	5	9	7.1	41384	PASS
275	198	10	60	30.5	176512	PASS
365	442	1	50	4.1	34728	PASS
441	443	0.01	100	65.7	113600	PASS
442	442	30	100	100.0	855680	PASS
443	442	15	24	20.2	172928	PASS

1st CO 09/09/21
2nd 09/15/21

Scan 594 (7.581 min): 0824F001.D
DFTPP @ 10ug/mL SVM66-47A
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
37.10	513	54.90	639	67.10	175	80.00	9258
38.10	2066	56.10	3802	68.00	2422	81.00	14091
39.10	9258	57.00	8455	68.95	161700	82.00	3169
41.10	335	58.10	274	70.00	985	83.00	3012
41.90	154	58.90	178	73.00	1461	84.00	281
44.90	242	61.00	1702	74.10	16290	85.00	2698
49.05	1007	62.10	1964	75.00	23704	86.00	4281
50.05	38258	63.10	5514	76.10	9206	87.00	1751
51.10	142400	64.10	956	77.10	194112	88.00	522
52.10	7173	65.10	2757	78.10	12663	88.90	400
53.10	278	65.90	241	79.00	12473	91.00	3351

Scan 594 (7.581 min): 0824F001.D
DFTPP @ 10ug/mL SVM66-47A
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
92.00	2876	103.00	2678	114.90	177	125.00	3183
93.00	23536	104.00	4910	115.10	175	126.10	575
94.00	1354	105.00	5203	116.00	3746	127.00	252416
95.10	251	106.00	1410	117.00	62152	128.00	18864
96.00	1032	107.00	71320	118.00	4100	129.00	94696
97.00	639	108.00	10231	118.90	403	130.00	8420
98.00	19312	109.10	1318	120.10	896	131.00	1798
99.00	13609	110.00	119928	120.90	212	132.00	1043
100.00	858	111.00	16768	122.00	5118	132.90	423
101.00	7885	112.00	1912	123.00	6989	134.00	2794
102.00	465	113.00	770	124.00	3274	135.00	6720

Scan 594 (7.581 min): 0824F001.D
DFTPP @ 10ug/mL SVM66-47A
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
136.00	3048	147.00	6930	157.90	2464	169.00	2231
137.00	4552	148.00	18352	159.00	1901	170.00	835
137.90	714	149.00	3579	160.00	4098	171.00	999
138.80	336	150.00	870	161.00	6289	171.90	2471
140.00	1522	151.10	1749	162.00	1492	173.00	3260
141.00	13700	152.00	1075	163.10	559	174.00	5547
141.90	4733	152.90	4187	164.10	780	175.00	12070
143.00	2690	154.00	3006	165.00	5323	175.90	3417
143.90	678	155.00	7274	166.00	4534	177.00	5053
144.90	490	156.00	12108	167.00	31312	178.00	1913
146.00	2843	157.10	1911	168.00	13574	179.00	19000

Scan 594 (7.581 min): 0824F001.D
DFTPP @ 10ug/mL SVM66-47A
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
180.00	14739	191.00	2144	203.00	4370	215.90	2887
181.00	6745	192.00	7163	204.00	20904	216.90	40928
182.00	894	193.00	6893	205.00	34464	218.00	5360
183.10	426	194.00	1551	206.00	153280	219.00	624
184.00	1563	195.00	911	207.00	18624	220.10	658
185.00	9936	196.00	15136	208.00	5622	221.00	27968
186.00	82648	196.90	2592	208.90	1784	223.00	8239
187.00	21904	198.00	579520	210.20	2347	224.00	91360
188.00	2197	199.00	41384	211.00	5648	225.00	22464
189.00	5416	200.00	3065	213.00	514	226.00	2451
190.00	858	201.60	2412	214.90	1654	227.00	41240

Scan 594 (7.581 min): 0824F001.D
DFTPP @ 10ug/mL SVM66-47A
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
228.00	5482	238.90	1501	250.00	514	261.00	608
229.00	8332	240.00	1174	250.90	569	263.90	997
229.90	1145	241.00	2162	252.00	732	265.00	8446
231.00	2756	242.00	5010	253.00	1409	265.95	1266
231.80	464	243.00	4748	254.00	2256	267.70	174
233.00	576	244.00	74936	255.00	388800	269.80	575
233.90	2631	245.00	9089	256.00	55272	270.90	801
235.00	3328	246.00	15031	257.00	4077	272.00	1088
235.90	2272	246.90	2459	258.00	22552	272.90	11753
237.00	3201	247.80	627	259.00	3133	274.00	33320
237.90	648	248.90	2200	260.00	579	275.00	176512

Scan 594 (7.581 min): 0824F001.D

1st CO 09/09/21
2nd 09/15/21

DFTPP @ 10ug/mL SVM66-47A
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
276.00	24032	289.90	532	302.00	853	314.90	5969
277.00	17448	290.90	611	303.00	6524	315.90	3485
278.00	3067	292.00	653	304.10	1914	316.90	632
278.90	508	293.00	4051	305.10	195	320.90	2019
281.90	389	293.90	1002	305.80	207	321.90	708
283.00	1764	295.00	815	307.90	930	323.00	21120
284.00	875	296.00	56688	309.00	633	324.00	3680
285.00	3338	297.00	7821	309.80	701	324.90	458
286.00	573	298.00	518	310.90	261	325.80	307
287.90	155	298.90	180	312.90	488	327.00	3292
289.00	817	301.00	556	314.00	3127	327.90	1936

Scan 594 (7.581 min): 0824F001.D
DFTPP @ 10ug/mL SVM66-47A
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
328.90	393	347.00	536	366.00	4635	390.00	1412
332.00	1554	350.00	279	366.90	296	391.00	1199
332.90	1911	350.90	296	369.80	472	391.90	821
334.00	13617	351.90	5816	370.90	1491	395.00	164
335.00	3318	353.00	4064	372.00	12998	401.00	611
335.90	440	354.00	6613	373.00	3064	402.00	4805
339.70	249	355.00	1246	374.00	552	403.00	6663
340.20	166	358.10	197	377.00	439	403.90	2433
340.90	2457	358.90	418	382.90	3595	404.90	483
342.00	761	360.80	155	383.90	1028	415.00	337
346.00	4661	365.00	34728	385.10	167	420.00	183

Scan 594 (7.581 min): 0824F001.D
DFTPP @ 10ug/mL SVM66-47A
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
421.00	5996						
422.00	4942						
423.00	42808						
424.00	8581						
425.00	639						
441.00	113600						
442.00	855680						
443.00	172928						
444.00	15204						
444.90	743						

Injection Log

Directory: J:\MS14\DATA\072621

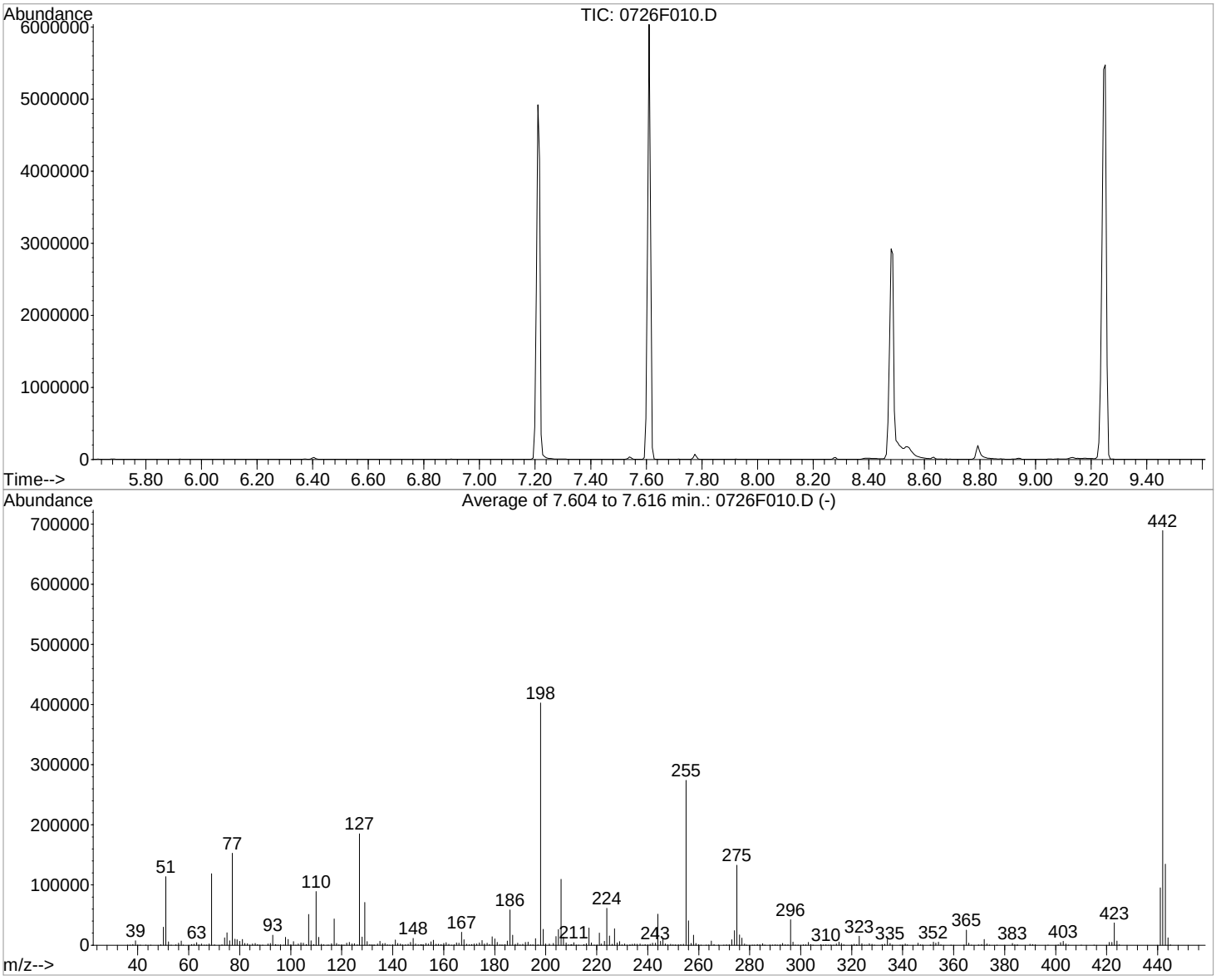
Line	Vial	FileName	Multiplier	SampleName	Misc Info	Injected
1	1	0726f010.d	1.	DFTPP @ 10ug/mL SVM65-91F		26 Jul 2021 16:26
2	2	0726f011.d	1.	IB NR		26 Jul 2021 17:38
3	2	0726f012.d	1.	IB		26 Jul 2021 18:05
4	3	0726f013.d	1.	SIM-PAH @ .002ug/mL | SVM6...		26 Jul 2021 18:31
5	4	0726f014.d	1.	SIM-PAH @ .004ug/mL | SVM6...		26 Jul 2021 18:58
6	5	0726f015.d	1.	SIM-PAH @ .008ug/mL | SVM6...		26 Jul 2021 19:24
7	6	0726f016.d	1.	SIM-PAH @ .02ug/mL | SVM66...		26 Jul 2021 19:51
8	7	0726f017.d	1.	SIM-PAH @ .1ug/mL | SVM66-41E		26 Jul 2021 20:18
9	8	0726f018.d	1.	SIM-PAH @ .2ug/mL | SVM66-41F		26 Jul 2021 20:44
10	9	0726f019.d	1.	SIM-PAH @ .4ug/mL | SVM66-41G		26 Jul 2021 21:11
11	10	0726f020.d	1.	SIM-PAH @ 1.0ug/mL | SVM66...		26 Jul 2021 21:37
12	11	0726f021.d	1.	SIM-PAH @ 1.6ug/mL | SVM66...		26 Jul 2021 22:04
13	12	0726f022.d	1.	SIM-PAH @ 2.0ug/mL | SVM66...		26 Jul 2021 22:31
14	13	0726f023.d	1.	SIM-PAH ICV @ 0.4ug/mL | SV...		26 Jul 2021 22:58

SIM PAH ICAL
KC2100398
7-28-21 eb

7/29/21

1st 07/28/21
2nd 07/29/21

Data File : J:\MS14\DATA\072621\0726F010.D Vial: 1
Acq On : 26 Jul 2021 4:26 pm Operator: E.Bruno
Sample : DFTPP @ 10ug/mL SVM65-91F Inst : MS14
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Method : J:\MS14\METHODS\SIM\A_DFTPP.M (RTE Integrator)
Title : dftpp tune mix



AutoFind: Scans 598, 599, 600; Background Corrected with Scan 593

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	28.3	113897	PASS
68	69	0.00	2	1.5	1793	PASS
69	198	0.00	100	29.5	118786	PASS
70	69	0.00	2	0.6	665	PASS
127	198	10	80	46.0	185165	PASS
197	198	0.00	2	0.2	830	PASS
198	442	30	100	58.4	402858	PASS
199	198	5	9	6.6	26462	PASS
275	198	10	60	33.0	132882	PASS
365	442	1	50	3.6	25047	PASS
441	443	0.01	100	70.7	95464	PASS
442	442	30	100	100.0	689301	PASS
443	442	15	24	19.6	134938	PASS

Average of 7.604 to 7.616 min.: 0726F010.D
DFTPP @ 10ug/mL SVM65-91F
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
36.15	162	52.10	5578	66.10	67	79.00	9063
37.05	348	53.15	188	67.10	65	80.00	6608
38.10	1325	55.00	542	68.05	1793	81.05	9757
39.15	7244	56.00	3208	69.00	118786	82.00	2710
40.05	403	57.05	7011	70.10	665	83.05	2309
41.05	189	57.90	376	73.05	919	83.95	242
43.15	119	61.10	1308	74.05	12332	85.05	1826
45.10	110	62.10	1562	75.05	20578	86.05	2691
49.00	568	63.10	4247	76.10	7301	87.05	1305
50.10	29728	64.00	729	77.10	152850	88.00	427
51.05	113897	65.05	2218	78.10	9978	88.95	249

Average of 7.604 to 7.616 min.: 0726F010.D
DFTPP @ 10ug/mL SVM65-91F
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
91.05	2146	101.05	6056	112.00	1379	123.00	4631
92.00	2789	102.00	401	112.95	542	124.00	2219
93.00	16769	102.95	1801	114.30	60	125.00	2261
94.00	1126	104.00	3657	115.00	114	126.10	677
94.20	79	105.00	3421	116.00	2552	127.00	185165
95.00	345	106.05	1043	117.00	43664	128.00	13401
96.00	671	107.00	51165	118.00	3080	129.00	71138
97.20	165	108.00	7416	118.95	484	130.00	5806
98.00	13013	109.00	1268	120.00	581	131.00	1164
99.00	9637	110.00	89173	120.95	172	131.90	635
100.00	817	111.00	13150	121.95	3220	132.60	67

Average of 7.604 to 7.616 min.: 0726F010.D
DFTPP @ 10ug/mL SVM65-91F
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
132.90	144	143.90	520	153.05	2823	164.05	567
134.00	2131	145.00	578	153.95	2092	165.00	3827
135.00	6270	146.00	1562	155.00	5558	166.00	3233
136.00	2658	147.00	4877	156.00	8106	167.00	21608
137.00	2902	148.00	11212	157.05	1706	168.00	9052
137.95	610	149.00	2109	157.95	1512	169.00	1427
138.90	410	150.00	666	158.95	1326	170.00	578
140.00	871	150.95	1111	160.00	2990	170.95	963
141.00	8787	151.40	340	161.00	4341	171.95	1797
142.00	3124	151.60	113	162.00	1497	173.00	2144
143.00	1983	152.00	533	163.05	386	174.00	3593

Average of 7.604 to 7.616 min.: 0726F010.D
DFTPP @ 10ug/mL SVM65-91F
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
175.00	7769	185.00	7013	196.00	11012	208.00	3695
176.00	2144	186.00	58877	196.95	830	208.95	901
177.00	3582	187.00	16479	197.95	402858	209.90	626
178.00	1207	188.05	1653	199.00	26462	210.20	1002
179.00	13871	189.00	3433	200.00	2238	211.00	4250
180.00	10227	189.95	599	201.45	2179	212.00	222
181.00	4847	191.05	1611	202.95	2776	212.95	337
182.00	820	192.00	4889	204.00	14539	214.95	1218
182.80	227	193.05	5277	205.00	25863	215.95	2265
183.15	225	194.00	922	206.00	109512	217.00	28365
184.00	1167	194.95	672	207.00	13716	217.95	3727

Average of 7.604 to 7.616 min.: 0726F010.D
DFTPP @ 10ug/mL SVM65-91F
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
219.05	261	229.95	731	240.00	795	250.80	113
220.20	133	231.00	2087	240.95	1604	251.00	387
221.00	20060	232.00	330	241.95	3165	252.00	517
221.80	2185	232.90	288	243.00	3359	252.95	1053
223.00	6300	233.10	227	244.00	51400	253.95	1375
224.00	61178	233.95	1689	245.00	6407	255.00	274005
225.00	15259	234.95	1902	246.00	10258	256.00	40306
226.00	1405	235.90	1482	246.95	1947	257.00	2979
227.00	27093	236.95	1991	247.85	482	258.00	16446
228.00	3715	238.05	387	249.00	1614	258.95	2814
228.95	5841	238.95	1290	249.95	491	259.95	545

Average of 7.604 to 7.616 min.: 0726F010.D

1st 07/28/21
2nd 07/29/21

DFTPP @ 10ug/mL SVM65-91F
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
260.85	383	275.00	132882	287.90	123	299.00	128
263.00	53	276.00	17024	288.90	465	301.00	519
263.90	476	277.00	11557	289.95	522	302.00	801
265.00	6919	277.95	1892	290.85	356	303.00	4857
265.95	1010	278.85	410	291.95	654	304.00	1293
267.75	134	281.00	50	292.95	2859	304.85	144
269.90	346	281.90	285	293.90	743	307.80	154
270.90	516	283.00	1205	294.95	653	307.95	480
271.95	557	283.95	831	296.00	42245	308.85	409
272.95	8922	285.05	2416	297.00	5267	309.95	701
274.00	24101	285.90	402	297.90	436	310.95	180

Average of 7.604 to 7.616 min.: 0726F010.D
DFTPP @ 10ug/mL SVM65-91F
Modified:subtracted

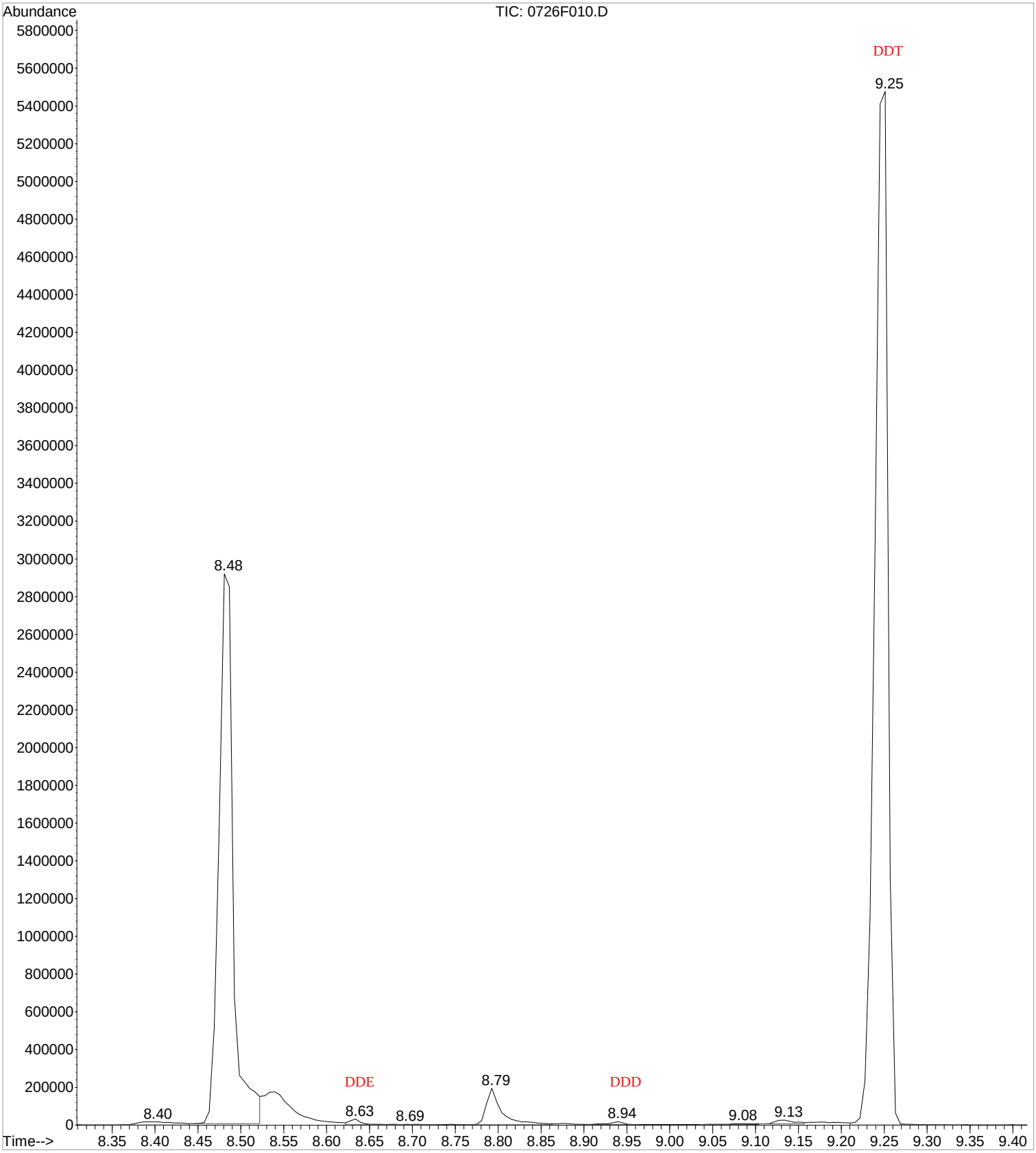
m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
311.80	59	324.00	2555	339.00	126	354.00	4997
312.95	381	325.05	289	339.90	148	354.95	922
313.95	2203	326.00	428	341.00	1915	358.90	388
315.00	5290	326.95	2517	341.85	522	364.00	143
316.00	2931	327.95	1504	345.95	3394	364.95	25047
316.90	587	328.90	187	346.90	484	365.90	3463
320.00	68	331.95	1272	347.75	107	366.95	215
321.00	1463	332.95	1478	350.80	85	369.70	91
321.90	519	334.00	10196	351.00	78	369.90	472
322.10	207	335.00	2802	352.00	5103	370.95	1180
323.00	14887	335.95	314	353.00	3549	372.00	9476

Average of 7.604 to 7.616 min.: 0726F010.D
DFTPP @ 10ug/mL SVM65-91F
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
373.00	2125	400.95	604	425.00	656		
374.05	258	401.95	4318	441.00	95464		
377.00	179	403.00	6213	442.00	689301		
383.00	2912	403.95	1967	443.00	134938		
383.95	754	405.05	255	444.00	12095		
384.85	230	410.00	135	445.00	764		
385.10	80	415.00	288				
389.95	1373	420.95	4727				
391.00	946	422.00	4745				
391.95	648	423.00	36748				
397.00	64	424.00	7066				

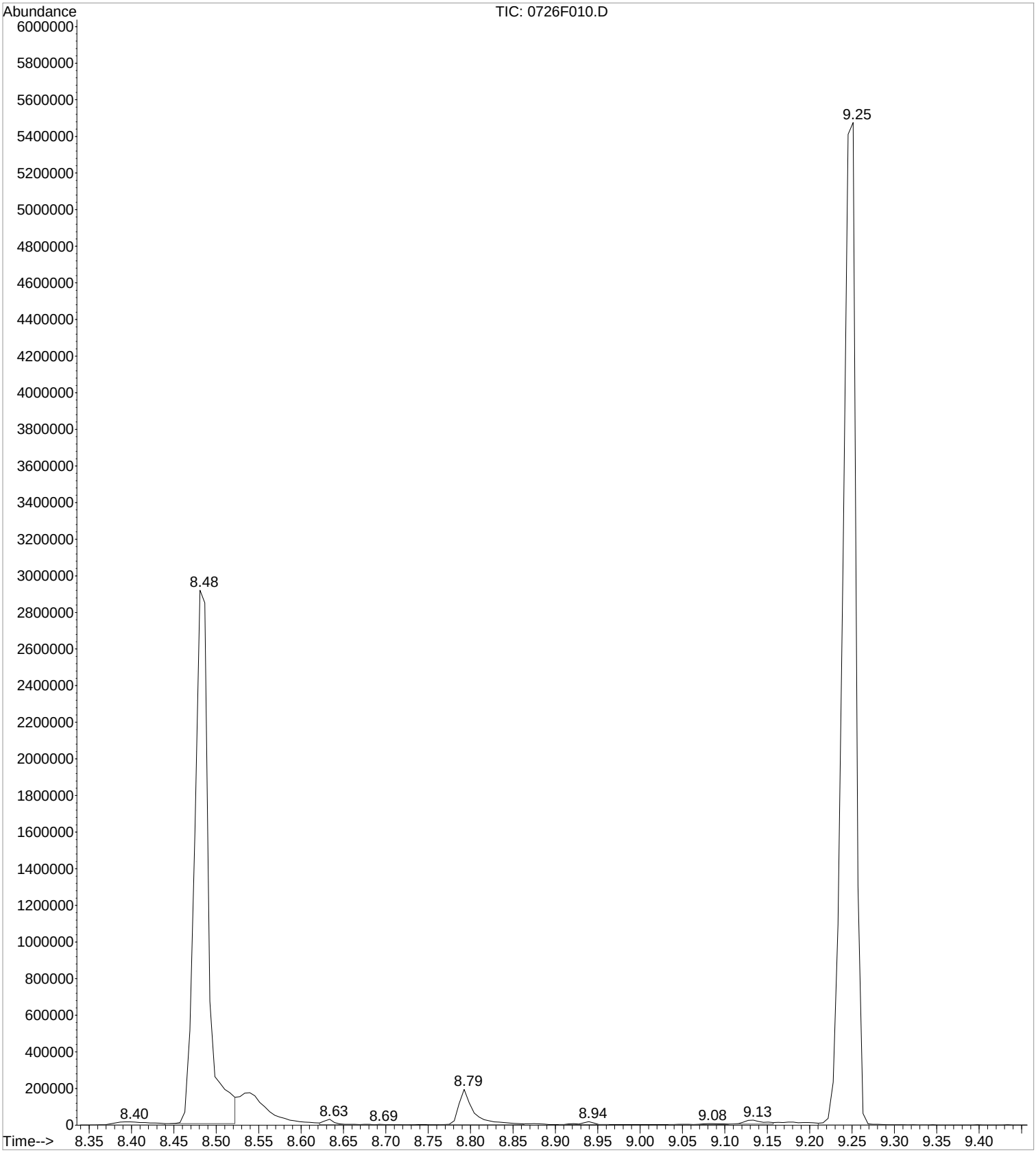
1st 07/28/21
2nd 07/29/21

File : J:\MS14\DATA\072621\0726F010.D
Operator : E.Bruno
Acquired : 26 Jul 2021 4:26 pm using AcqMethod SIMLOC
Instrument : MS14
Sample Name: DFTPP @ 10ug/mL SVM65-91F
Misc Info :
Vial Number: 1



1st 07/28/21
2nd 07/29/21

File : J:\MS14\DATA\072621\0726F010.D
Operator : E.Bruno
Acquired : 26 Jul 2021 4:26 pm using AcqMethod SIMLOC
Instrument : MS14
Sample Name: DFTPP @ 10ug/mL SVM65-91F
Misc Info :
Vial Number: 1

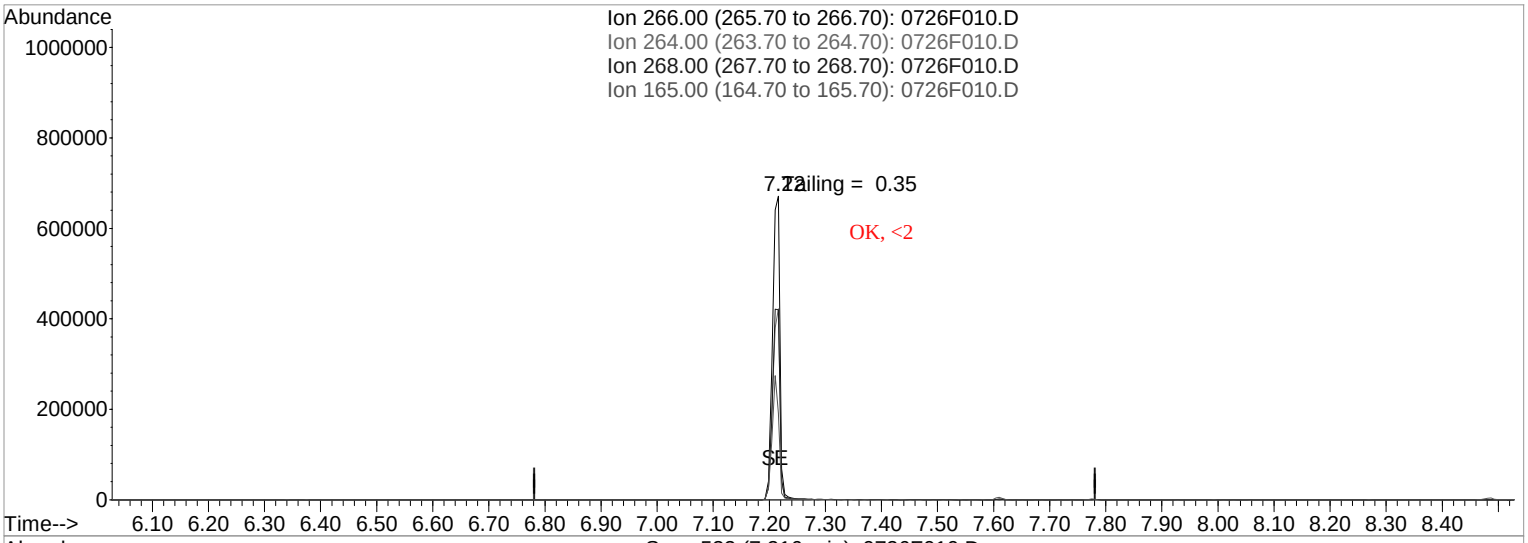


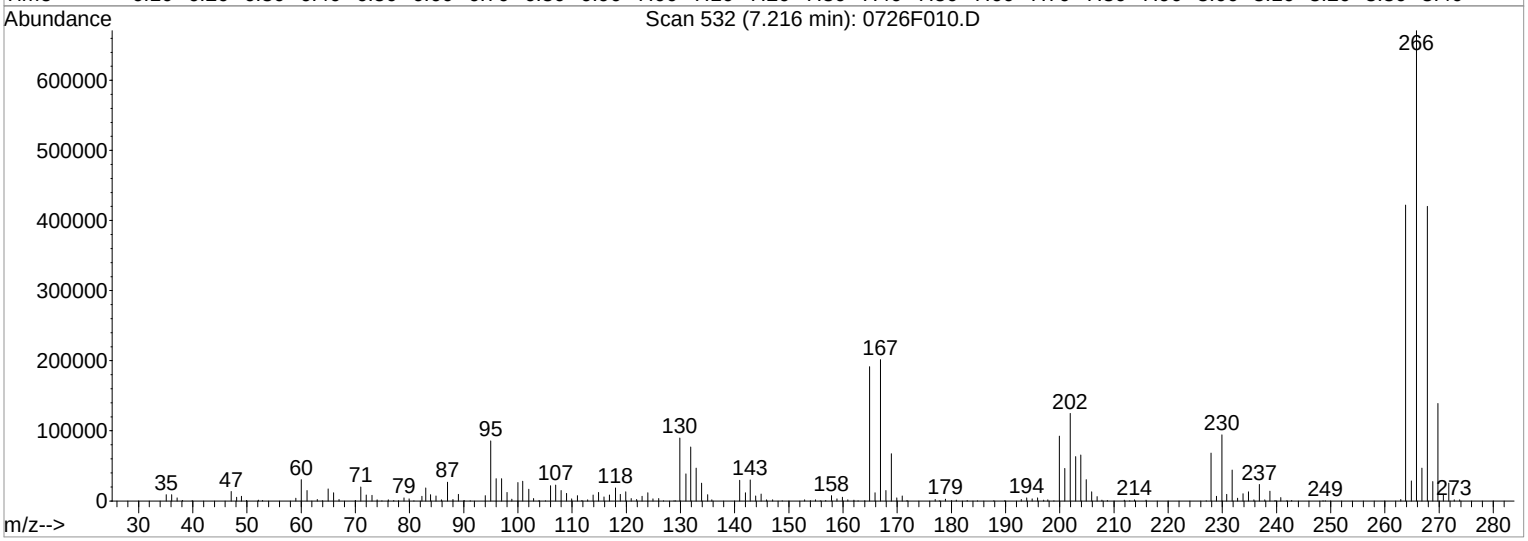
Quantitation Report (Qedit)

1st 07/28/21
2nd 07/29/21

Data File : J:\MS14\DATA\072621\0726F010.D Vial: 1
Acq On : 26 Jul 2021 4:26 pm Operator: E.Bruno
Sample : DFTPP @ 10ug/mL SVM65-91F Inst : MS14
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 26 17:15 2021 Quant Results File: temp.res

Method : J:\MS14\METHODS\SIM\A_DFTPP.M (RTE Integrator)
Title : dftpp tune mix
Last Update : Mon Jul 26 10:38:30 2021
Response via : Single Level Calibration





TIC: 0726F010.D

(1) Pentachlorophenol

7.22min 26.62ng/ml

response 612628

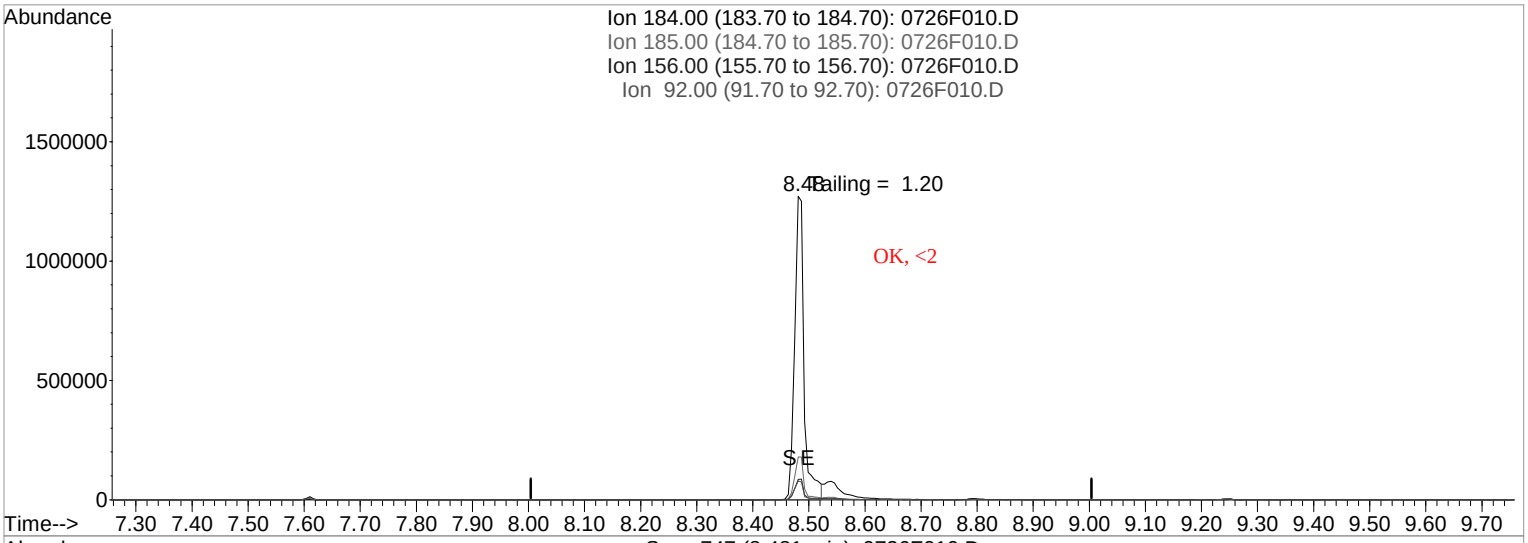
Ion	Exp%	Act%
266.00	100	100
264.00	61.70	62.86
268.00	67.70	62.60
165.00	32.40	28.54

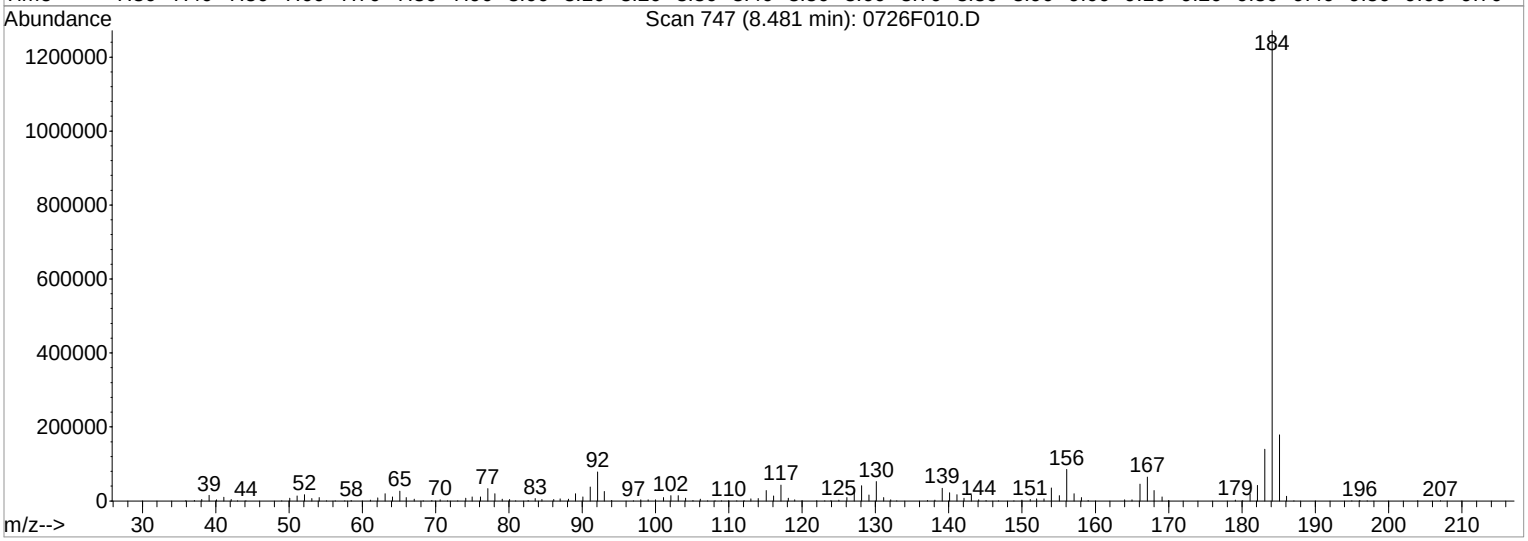
Quantitation Report (Qedit)

1st 07/28/21
2nd 07/29/21

Data File : J:\MS14\DATA\072621\0726F010.D Vial: 1
Acq On : 26 Jul 2021 4:26 pm Operator: E.Bruno
Sample : DFTPP @ 10ug/mL SVM65-91F Inst : MS14
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 26 17:15 2021 Quant Results File: temp.res

Method : J:\MS14\METHODS\SIM\A_DFTPP.M (RTE Integrator)
Title : dftpp tune mix
Last Update : Mon Jul 26 10:38:30 2021
Response via : Single Level Calibration





TIC: 0726F010.D

(3) Benzidine (T)

8.48min 25.73ug/ml

response 1483031

Ion	Exp%	Act%
184.00	100	100
185.00	18.20	14.04
156.00	6.80	6.73
92.00	6.20	6.14

16	8.398	rBV	0.088	51499	8.351	8.439		Breakdown = 0.8%
17	8.481	rBV	0.076	3378039	8.445	8.522		<20%, ok
18	8.634	rVB	0.065	28016	8.622	8.687	DDE	
19	8.692	rBV	0.041	2659	8.687	8.728		
20	8.792	rBV	0.100	240105	8.763	8.863		
21	8.939	rVB	0.059	17350	8.904	8.963	DDD	
22	9.081	rBV	0.071	11153	9.034	9.104		
23	9.134	rBV	0.053	33674	9.104	9.157		
24	9.251	rVB	0.129	5906108	9.210	9.339	DDT	
25	9.686	rBV	0.059	2130	9.657	9.716		

1st 07/28/21
2nd 07/29/21

Quantitation Report (QT Reviewed)

Data File : J:\MS14\DATA\072621\0726F012.D Vial: 2
Acq On : 26 Jul 2021 6:05 pm Operator: E.Bruno
Sample : IB Inst : MS14
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 26 21:20:57 2021 Quant Results File: 072621ALK.RES

Quant Method : J:\MS14\METHODS\SIM\072621ALK.M (RTE Integrator)
Title : PAHS and ALKYLATED HOMOLOGS
Last Update : Tue Jul 06 13:28:06 2021
Response via : Initial Calibration
DataAcq Meth : A_PAHAT05

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Naphthalene-d8	4.52	136	75707	200.00	ng/ml	-0.01
12) Acenaphthene-d10	6.12	164	40402	200.00	ng/ml	0.00
22) Phenanthrene-d10	7.36	188	76500	200.00	ng/ml	0.00
34) Chrysene-d12	9.79	240	67740	200.00	ng/ml	-0.01
44) Perylene-d12	12.58	264	76144	200.00	ng/ml	-0.01
System Monitoring Compounds						
3) 2-Methylnaphthalene-d10	0.00	152	0	0.00	ng/ml	
Spiked Amount 200.000			Recovery =	0.00%		
17) Fluorene-d10	0.00	176	0	0.00	ng/ml	
Spiked Amount 200.000			Recovery =	0.00%		
33) Fluoranthene-d10	0.00	212	0	0.00	ng/ml	
Spiked Amount 200.000			Recovery =	0.00%		
37) Terphenyl-d14	0.00	244	0	0.00	ng/ml	
Spiked Amount 200.000			Recovery =	0.00%		
Target Compounds						Qvalue
38) Benz(a)anthracene	9.79	228	189	0.41	ng/ml	69 <MRL

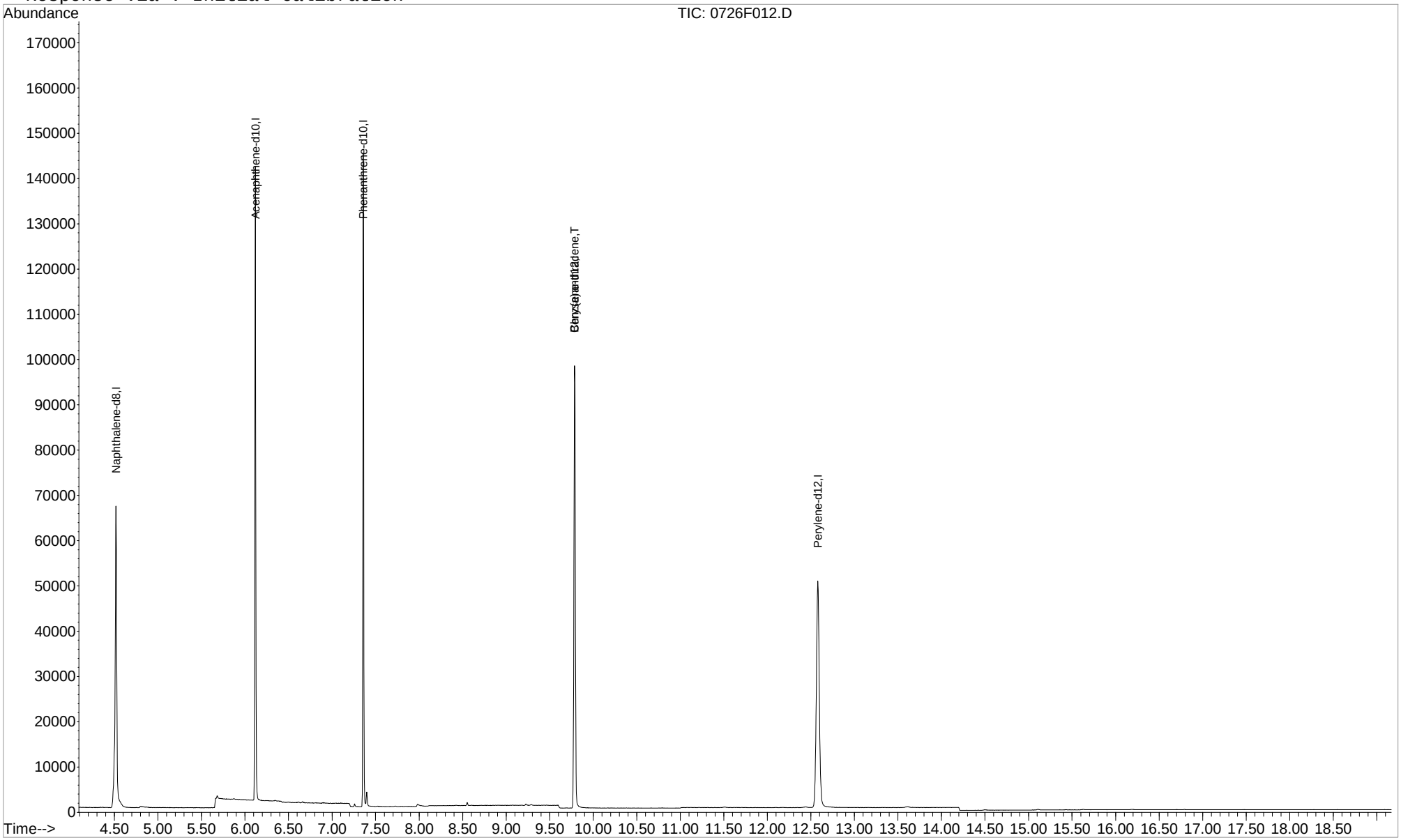
(#) = qualifier out of range (m) = manual integration

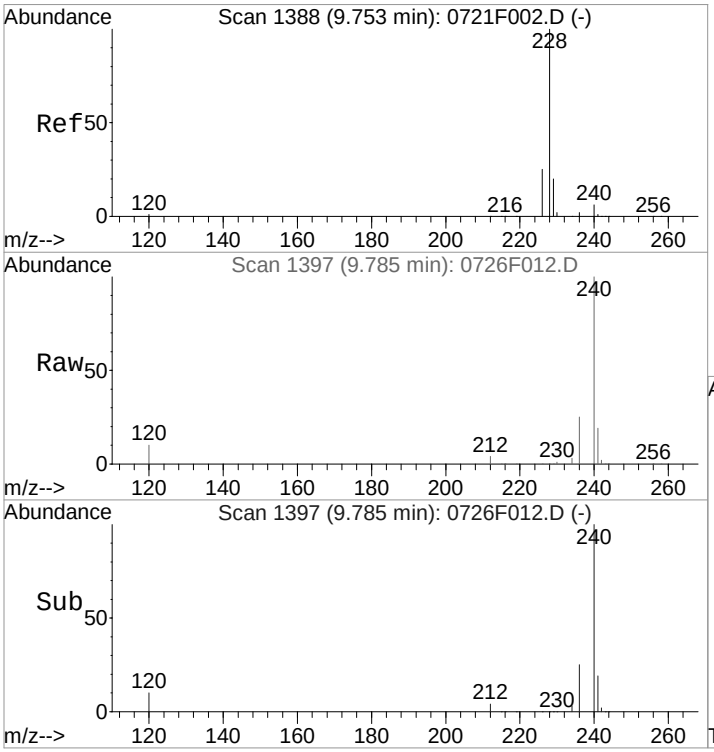
Quantitation Report (QT Reviewed)

1st 07/28/21
2nd 07/29/21

Data File : J:\MS14\DATA\072621\0726F012.D Vial: 2
Acq On : 26 Jul 2021 6:05 pm Operator: E.Bruno
Sample : IB Inst : MS14
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 26 21:24 2021 Quant Results File: 072621ALK.RES

Method : J:\MS14\METHODS\SIM\072621ALK.M (RTE Integrator)
Title : PAHS and ALKYLATED HOMOLOGS
Last Update : Mon Jul 26 23:01:28 2021
Response via : Initial Calibration

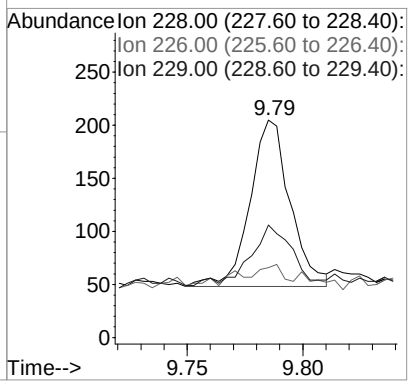




#38
Benz(a)anthracene
Concen: 0.41 ng/ml
RT: 9.79 min Scan# 1397
Delta R.T. 0.00 min
Lab File: 0726F012.D
Acq: 26 Jul 2021 6:05 pm

Tgt Ion:228 Resp: 189

Ion	Ratio	Lower	Upper
228	100		
226	10.8	0.0	53.9
229	36.3	0.0	49.5



Quantitation Report (QT Reviewed)

1st 07/28/21
2nd 07/29/21

Data File : J:\MS14\DATA\072621\0726F013.D Vial: 3
Acq On : 26 Jul 2021 6:31 pm Operator: E.Bruno
Sample : SIM-PAH @ .002ug/mL | SVM66-41A Inst : MS14
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 26 21:20:58 2021 Quant Results File: 072621ALK.RES

Quant Method : J:\MS14\METHODS\SIM\072621ALK.M (RTE Integrator)
Title : PAHS and ALKYLATED HOMOLOGS
Last Update : Tue Jul 06 13:28:06 2021
Response via : Initial Calibration
DataAcq Meth : A_PAHAT05

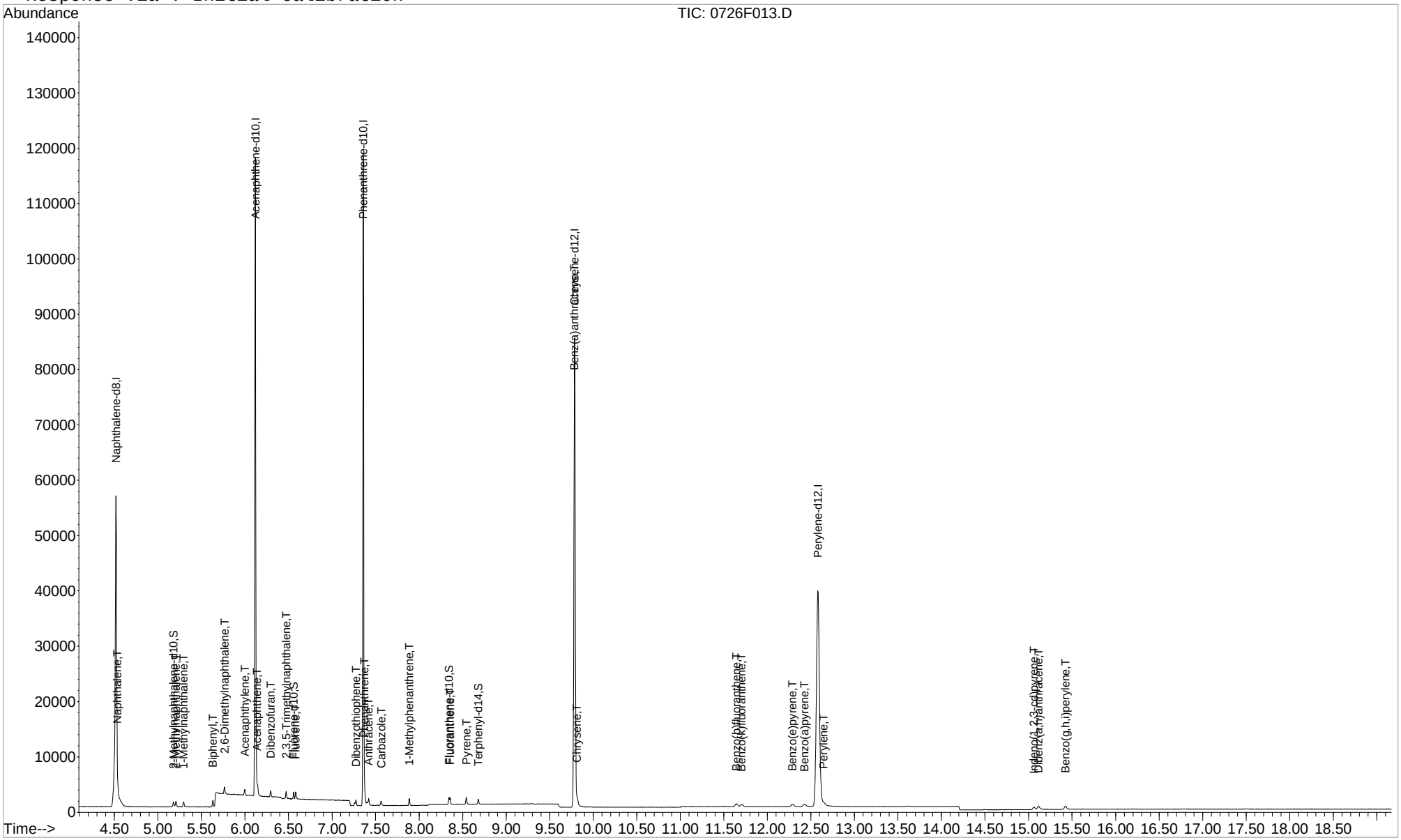
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Naphthalene-d8	4.52	136	62671	200.00	ng/ml	-0.01
12) Acenaphthene-d10	6.12	164	33649	200.00	ng/ml	0.00
22) Phenanthrene-d10	7.36	188	64248	200.00	ng/ml	0.00
34) Chrysene-d12	9.79	240	55932	200.00	ng/ml	-0.01
44) Perylene-d12	12.58	264	61330	200.00	ng/ml	-0.01
System Monitoring Compounds						
3) 2-Methylnaphthalene-d10	5.18	152	397	2.03	ng/ml	-0.01
Spiked Amount 200.000			Recovery =	1.01%		
17) Fluorene-d10	6.56	176	422	2.11	ng/ml	0.00
Spiked Amount 200.000			Recovery =	1.05%		
33) Fluoranthene-d10	8.34	212	725	1.96	ng/ml	0.00
Spiked Amount 200.000			Recovery =	0.98%		
37) Terphenyl-d14	8.68	244	606	2.23	ng/ml	0.00
Spiked Amount 200.000			Recovery =	1.12%		
Target Compounds						Qvalue
2) Naphthalene	4.54	128	568	1.94	ng/ml	96
4) 2-Methylnaphthalene	5.21	142	444	2.20	ng/ml	90
5) 1-Methylnaphthalene	5.29	142	409	2.18	ng/ml	92
6) Biphenyl	5.63	154	688m	2.29	ng/ml	
7) 2,6-Dimethylnaphthalene	5.76	156	396	2.15	ng/ml	92
13) Acenaphthylene	6.00	152	634m	2.11	ng/ml	
14) Acenaphthene	6.15	154	404	2.19	ng/ml	93
15) Dibenzofuran	6.29	168	592	2.14	ng/ml	72
16) 2,3,5-Trimethylnaphthalene	6.47	170	376m	2.10	ng/ml	
18) Fluorene	6.58	166	462m	2.18	ng/ml	
23) Dibenzothiophene	7.27	184	657	2.04	ng/ml	87
24) Phenanthrene	7.38	178	755	2.27	ng/ml	96
25) Anthracene	7.42	178	601	1.84	ng/ml	97
26) Carbazole	7.56	167	599	2.01	ng/ml	99
27) 1-Methylphenanthrene	7.89	192	489	2.03	ng/ml	91
32) Fluoranthene	8.36	202	796	2.17	ng/ml	98
35) Pyrene	8.54	202	857	2.42	ng/ml	94
38) Benz(a)anthracene	9.77	228	916	2.40	ng/ml	98
39) Chrysene	9.82	228	754	2.15	ng/ml	100
45) Benzo(b)fluoranthene	11.64	252	745	1.94	ng/ml	97
46) Benzo(k)fluoranthene	11.70	252	654	1.76	ng/ml	98
47) Benzo(e)pyrene	12.29	252	779	2.12	ng/ml	98
48) Benzo(a)pyrene	12.43	252	706m	1.93	ng/ml	
49) Perylene	12.65	252	671	2.02	ng/ml	94
50) Indeno(1,2,3-cd)pyrene	15.06	276	590	1.81	ng/ml	97
51) Dibenz(a,h)anthracene	15.12	278	618	1.86	ng/ml	89
52) Benzo(g,h,i)perylene	15.42	276	833	2.26	ng/ml	95

(#) = qualifier out of range (m) = manual integration

1st 07/28/21
2nd 07/29/21

Data File : J:\MS14\DATA\072621\0726F013.D Vial: 3
Acq On : 26 Jul 2021 6:31 pm Operator: E.Bruno
Sample : SIM-PAH @ .002ug/mL | SVM66-41A Inst : MS14
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 26 21:37 2021 Quant Results File: 072621ALK.RES

Method : J:\MS14\METHODS\SIM\072621ALK.M (RTE Integrator)
Title : PAHS and ALKYLATED HOMOLOGS
Last Update : Mon Jul 26 23:01:28 2021
Response via : Initial Calibration

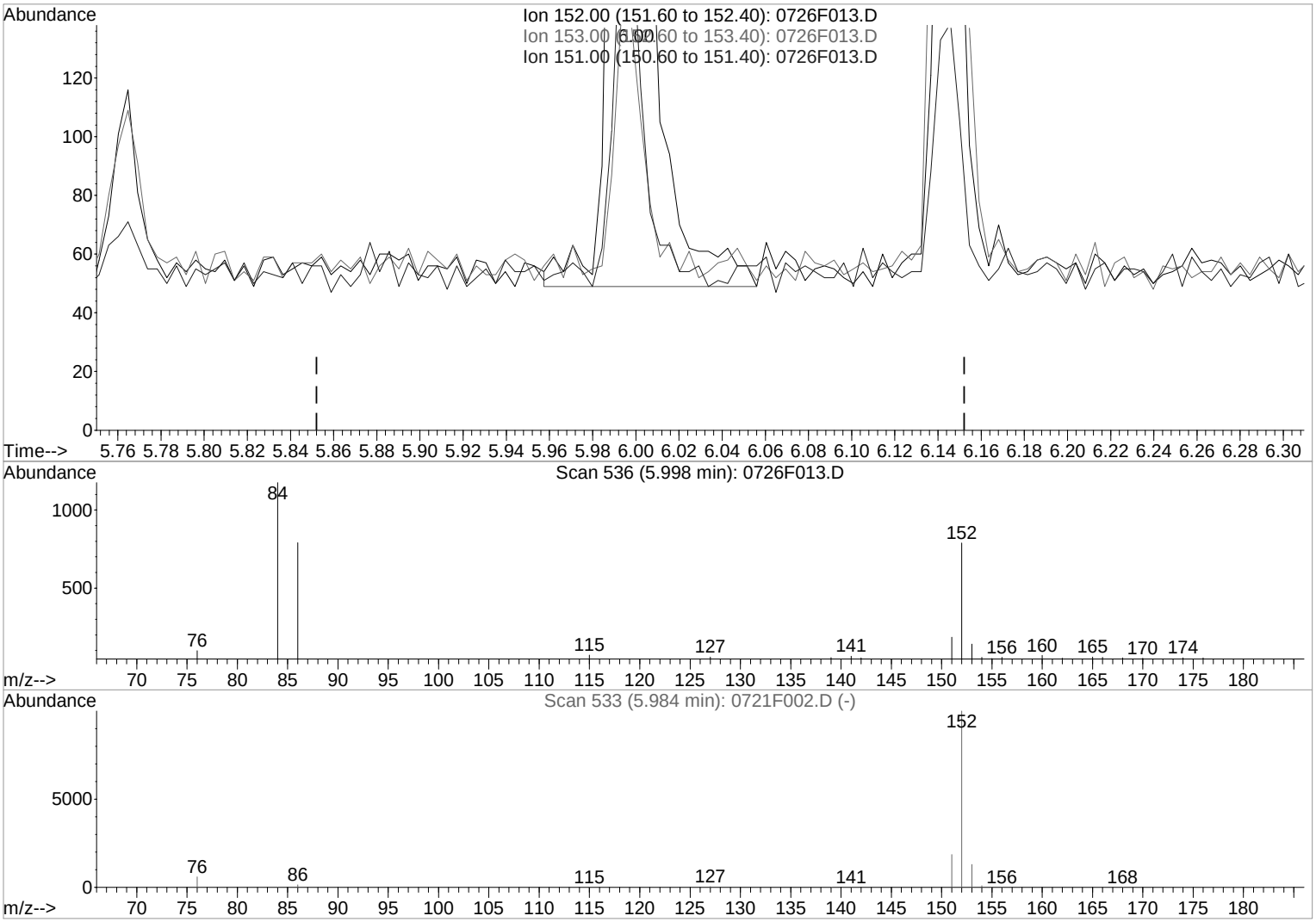


Quantitation Report (Qedit)

1st 07/28/21
2nd 07/29/21

Data File : J:\MS14\DATA\072621\0726F013.D Vial: 3
Acq On : 26 Jul 2021 6:31 pm Operator: E.Bruno
Sample : SIM-PAH @ .002ug/mL | SVM66-41A Inst : MS14
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 26 21:25 2021 Quant Results File: temp.res

Method : J:\MS14\METHODS\SIM\072621ALK.M (RTE Integrator)
Title : PAHS and ALKYLATED HOMOLOGS
Last Update : Tue Jul 06 13:28:06 2021
Response via : Multiple Level Calibration



TIC: 0726F013.D

(13) Acenaphthylene (T)

6.00min 2.23ng/ml

response 670

Ion	Exp%	Act%
152.00	100	100
153.00	12.90	12.31
151.00	17.70	18.27
0.00	0.00	0.00

Manual Integration:

Before

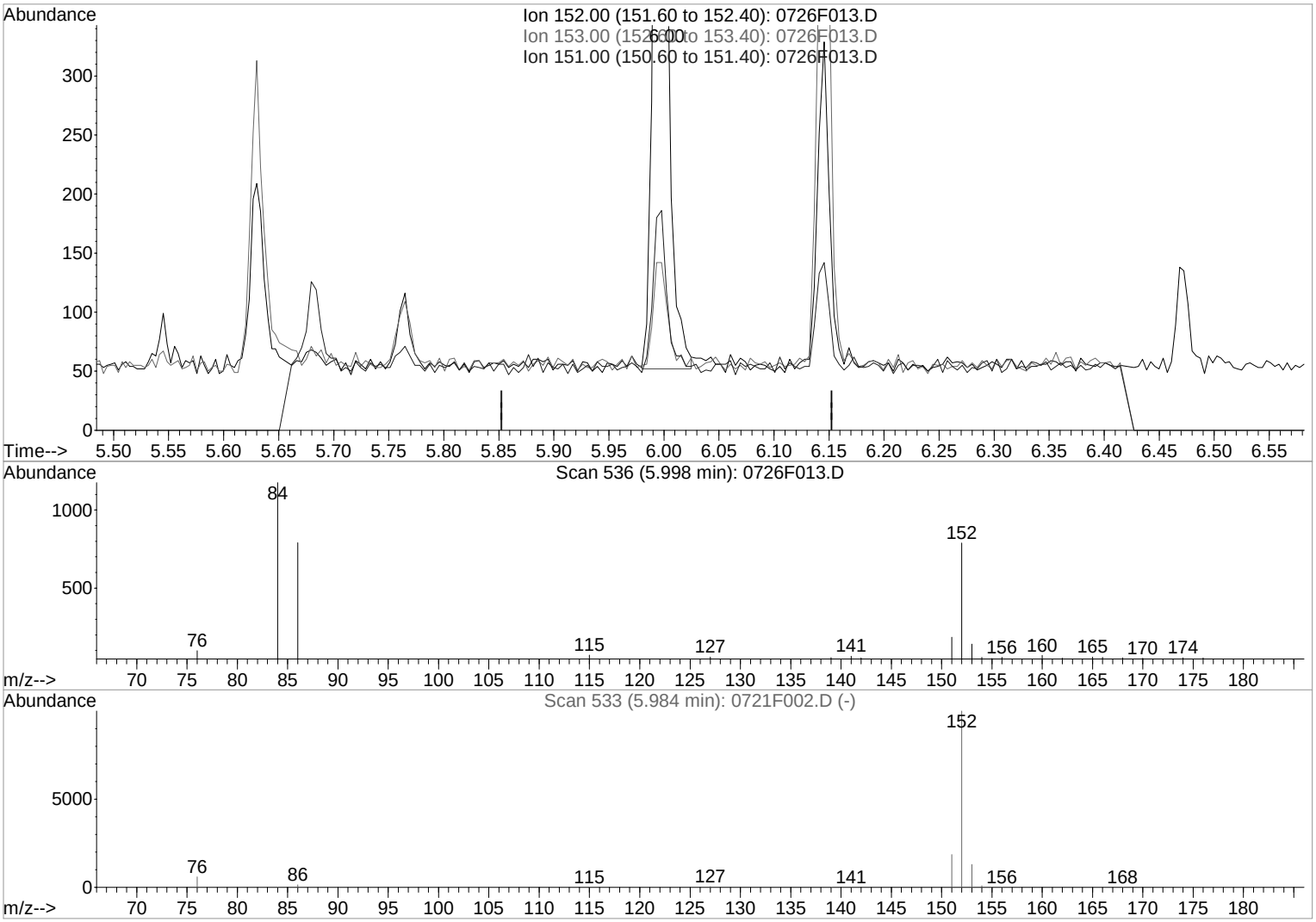
07/26/21

Quantitation Report (Qedit)

1st 07/28/21
2nd 07/29/21

Data File : J:\MS14\DATA\072621\0726F013.D Vial: 3
Acq On : 26 Jul 2021 6:31 pm Operator: E.Bruno
Sample : SIM-PAH @ .002ug/mL | SVM66-41A Inst : MS14
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 26 21:37 2021 Quant Results File: temp.res

Method : J:\MS14\METHODS\SIM\072621ALK.M (RTE Integrator)
Title : PAHS and ALKYLATED HOMOLOGS
Last Update : Mon Jul 26 23:01:28 2021
Response via : Multiple Level Calibration



TIC: 0726F013.D

(13) Acenaphthylene (T)

6.00min 2.11ng/ml m

response 634

Ion	Exp%	Act%
152.00	100	100
153.00	12.90	18.02
151.00	17.70	23.60
0.00	0.00	0.00

Manual Integration:

After

IC-Overintegrated

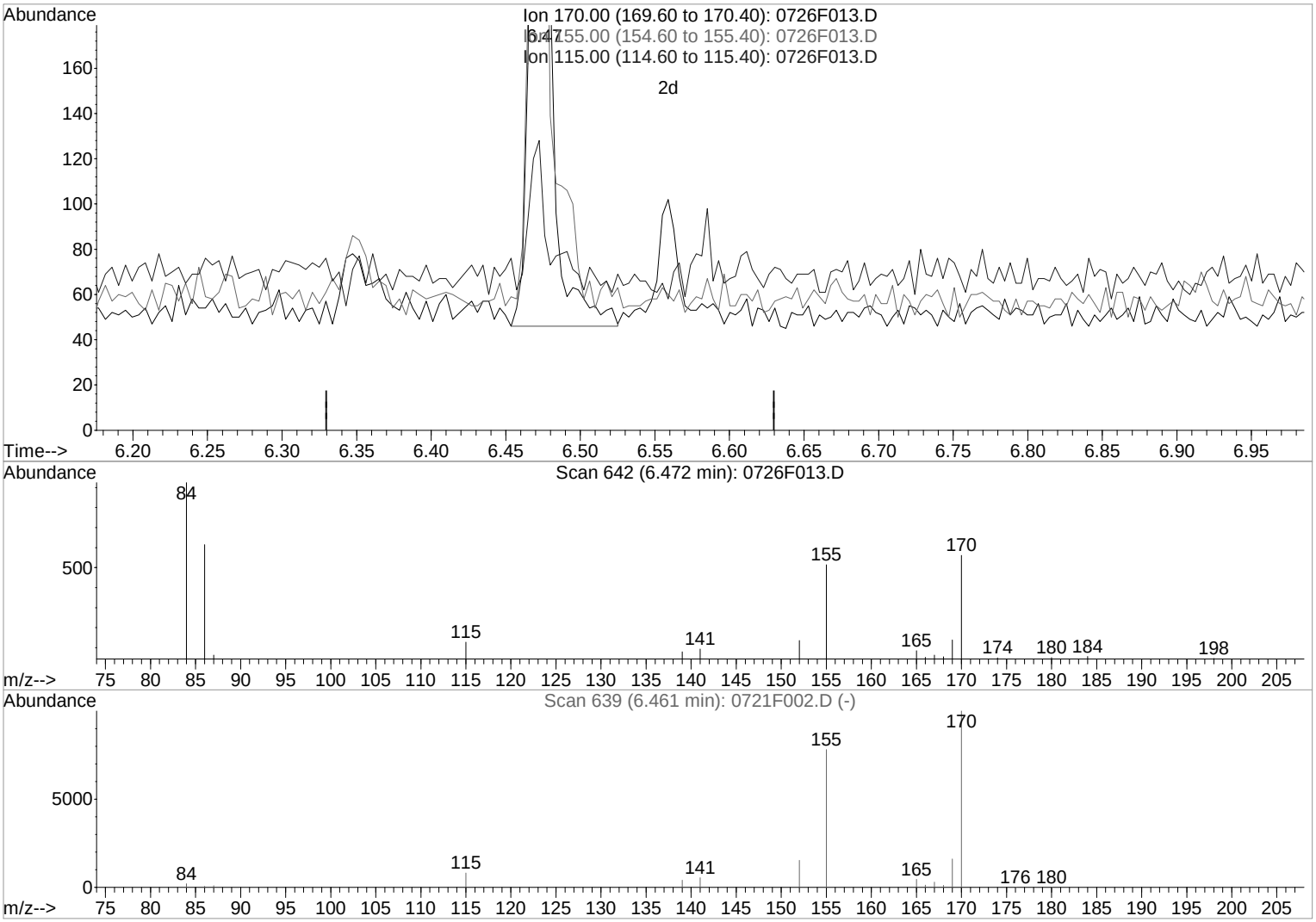
07/28/21

Quantitation Report (Qedit)

1st 07/28/21
2nd 07/29/21

Data File : J:\MS14\DATA\072621\0726F013.D Vial: 3
Acq On : 26 Jul 2021 6:31 pm Operator: E.Bruno
Sample : SIM-PAH @ .002ug/mL | SVM66-41A Inst : MS14
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 26 21:26 2021 Quant Results File: temp.res

Method : J:\MS14\METHODS\SIM\072621ALK.M (RTE Integrator)
Title : PAHS and ALKYLATED HOMOLOGS
Last Update : Tue Jul 06 13:28:06 2021
Response via : Multiple Level Calibration



TIC: 0726F013.D

(16) 2,3,5-Trimethylnaphthalene (T)

6.47min 2.20ng/ml

response 393

Ion	Exp%	Act%
170.00	100	100
155.00	77.50	88.35
115.00	8.10	11.46
0.00	0.00	0.00

Manual Integration:

Before

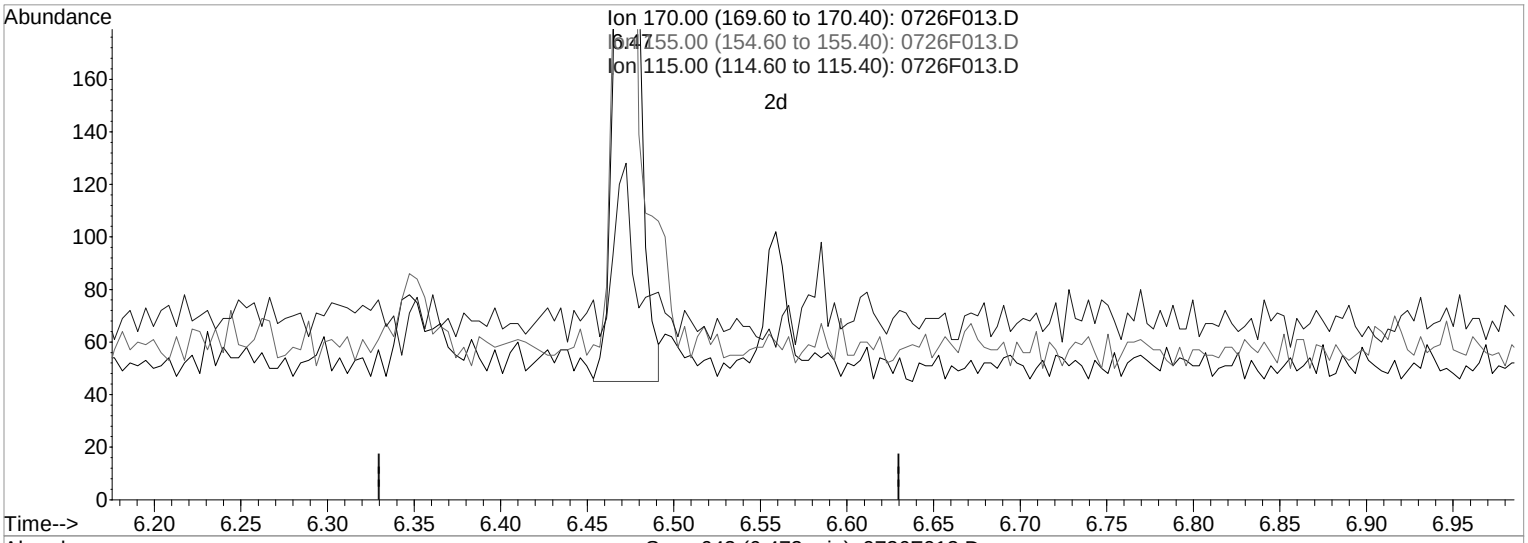
07/26/21

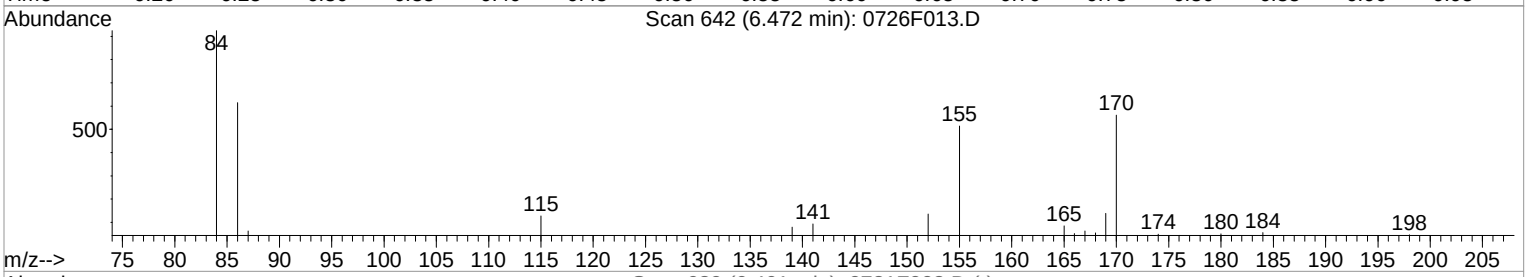
Quantitation Report (Qedit)

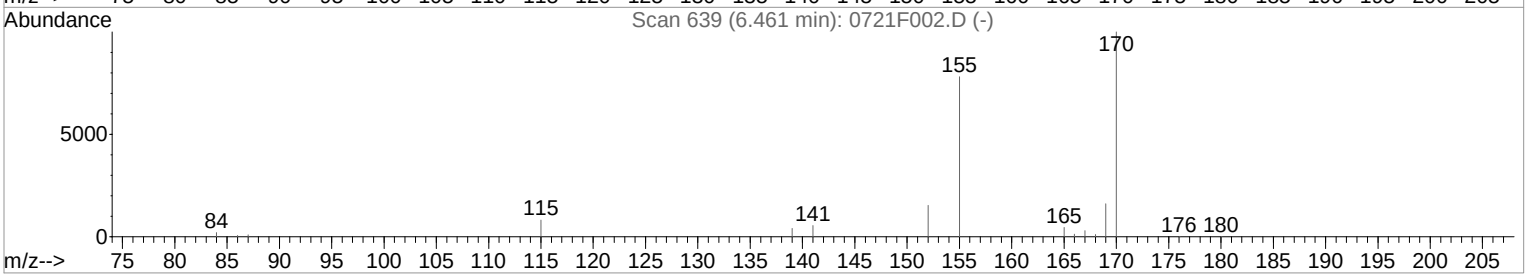
1st 07/28/21
2nd 07/29/21

Data File : J:\MS14\DATA\072621\0726F013.D Vial: 3
Acq On : 26 Jul 2021 6:31 pm Operator: E.Bruno
Sample : SIM-PAH @ .002ug/mL | SVM66-41A Inst : MS14
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 26 21:35 2021 Quant Results File: temp.res

Method : J:\MS14\METHODS\SIM\072621ALK.M (RTE Integrator)
Title : PAHS and ALKYLATED HOMOLOGS
Last Update : Tue Jul 06 13:28:06 2021
Response via : Multiple Level Calibration







TIC: 0726F013.D

(16) 2,3,5-Trimethylnaphthalene (T)

6.47min 2.10ng/ml m

response 376

Ion	Exp%	Act%
170.00	100	100
155.00	77.50	91.62
115.00	8.10	22.82
0.00	0.00	0.00

Manual Integration:

After

IC-Overintegrated

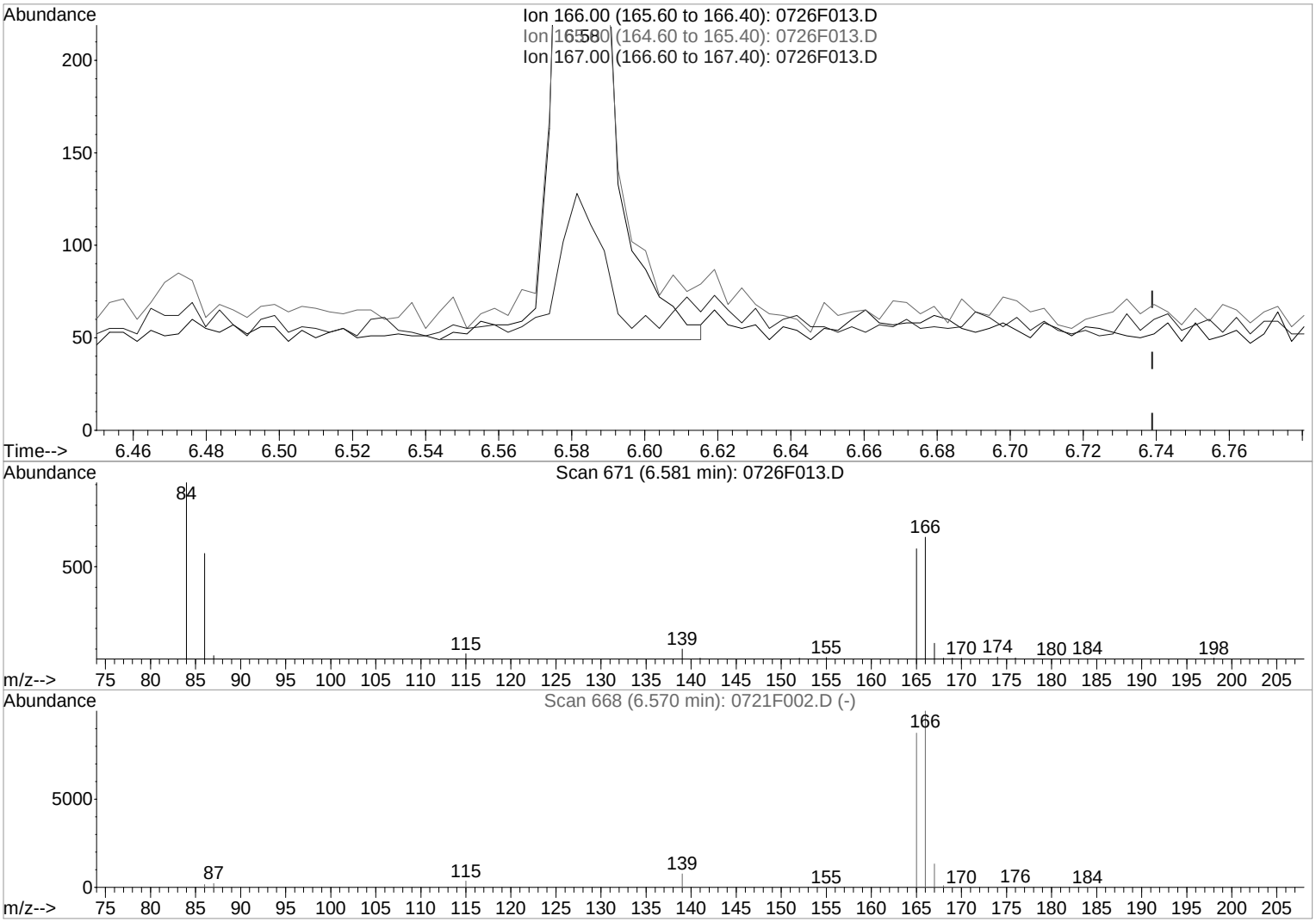
07/26/21

Quantitation Report (Qedit)

1st 07/28/21
2nd 07/29/21

Data File : J:\MS14\DATA\072621\0726F013.D Vial: 3
Acq On : 26 Jul 2021 6:31 pm Operator: E.Bruno
Sample : SIM-PAH @ .002ug/mL | SVM66-41A Inst : MS14
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 26 21:35 2021 Quant Results File: temp.res

Method : J:\MS14\METHODS\SIM\072621ALK.M (RTE Integrator)
Title : PAHS and ALKYLATED HOMOLOGS
Last Update : Tue Jul 06 13:28:06 2021
Response via : Multiple Level Calibration



TIC: 0726F013.D

(18) Fluorene (T)

6.58min 2.27ng/ml

response 482

Ion	Exp%	Act%
166.00	100	100
165.00	86.60	87.90
167.00	13.30	12.61
0.00	0.00	0.00

Manual Integration:

Before

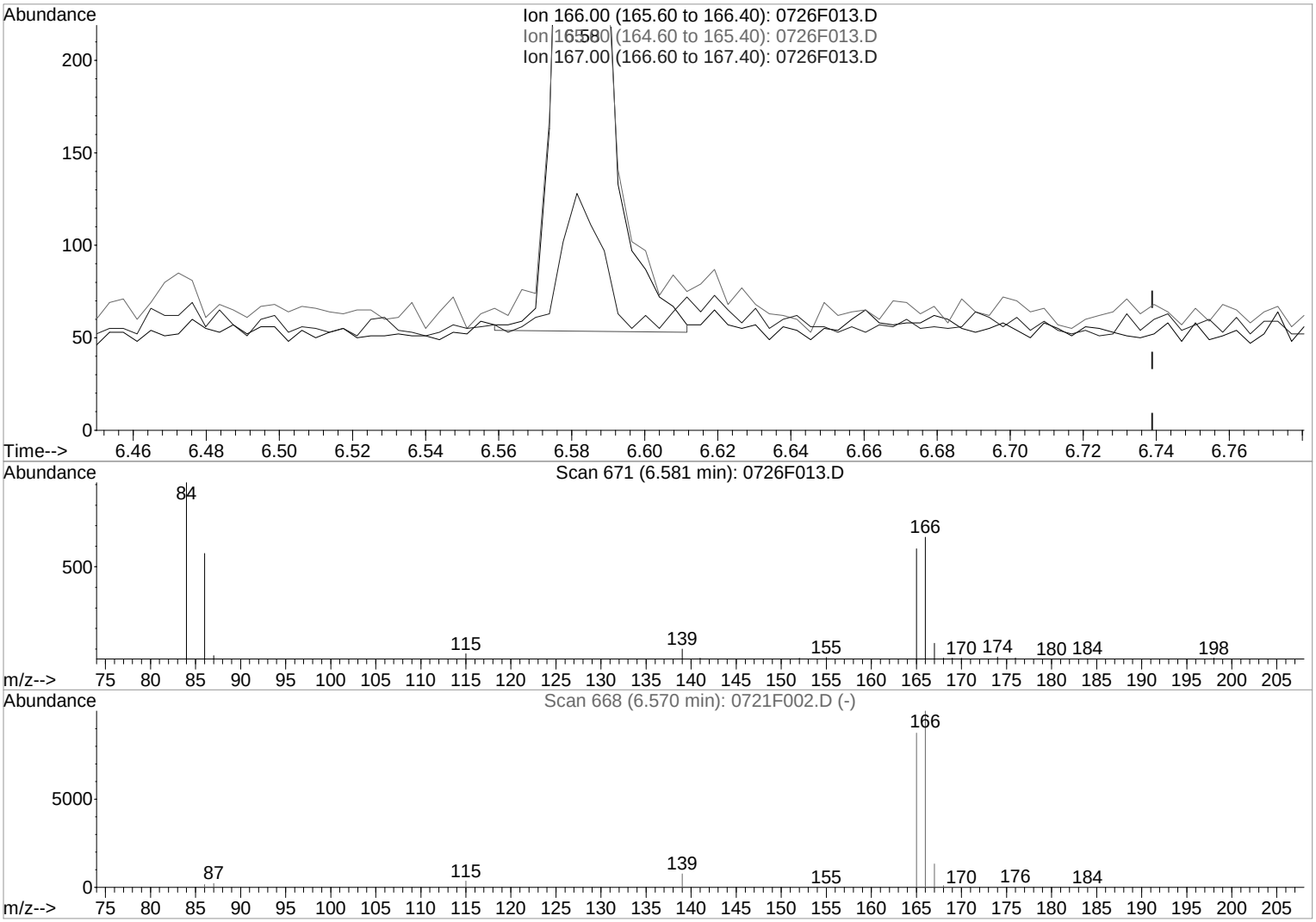
07/26/21

Quantitation Report (Qedit)

1st 07/28/21
2nd 07/29/21

Data File : J:\MS14\DATA\072621\0726F013.D Vial: 3
Acq On : 26 Jul 2021 6:31 pm Operator: E.Bruno
Sample : SIM-PAH @ .002ug/mL | SVM66-41A Inst : MS14
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 26 21:36 2021 Quant Results File: temp.res

Method : J:\MS14\METHODS\SIM\072621ALK.M (RTE Integrator)
Title : PAHS and ALKYLATED HOMOLOGS
Last Update : Tue Jul 06 13:28:06 2021
Response via : Multiple Level Calibration



TIC: 0726F013.D

(18) Fluorene (T)

6.58min 2.18ng/ml m

response 462

Ion	Exp%	Act%
166.00	100	100
165.00	86.60	91.15
167.00	13.30	19.88
0.00	0.00	0.00

Manual Integration:

After

BLC

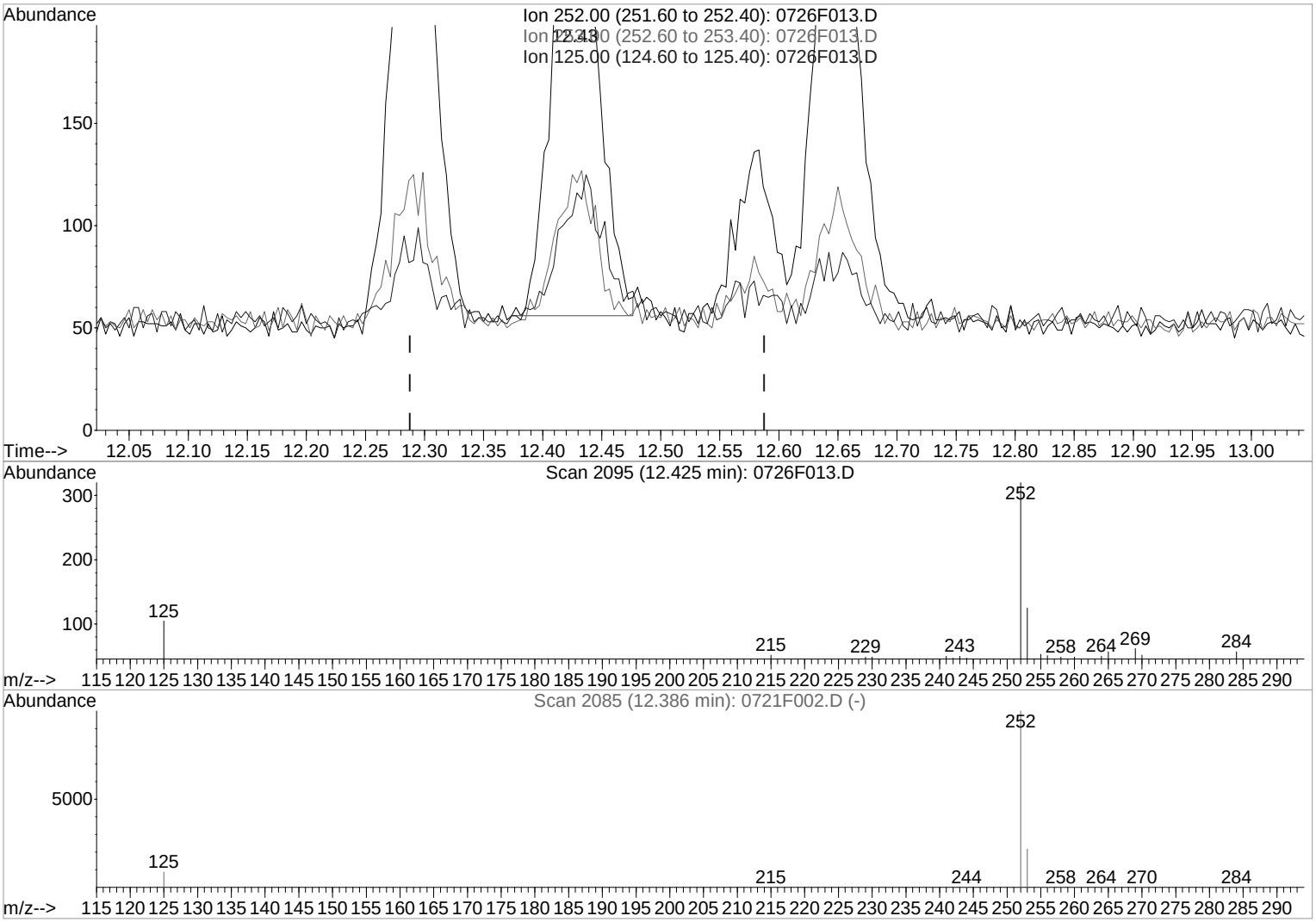
07/26/21

Quantitation Report (Qedit)

1st 07/28/21
2nd 07/29/21

Data File : J:\MS14\DATA\072621\0726F013.D Vial: 3
Acq On : 26 Jul 2021 6:31 pm Operator: E.Bruno
Sample : SIM-PAH @ .002ug/mL | SVM66-41A Inst : MS14
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 26 21:36 2021 Quant Results File: temp.res

Method : J:\MS14\METHODS\SIM\072621ALK.M (RTE Integrator)
Title : PAHS and ALKYLATED HOMOLOGS
Last Update : Tue Jul 06 13:28:06 2021
Response via : Multiple Level Calibration



TIC: 0726F013.D

(48) Benzo(a)pyrene (T)

12.43min 1.78ng/ml

response 650

Ion	Exp%	Act%
252.00	100	100
253.00	21.20	27.65
125.00	7.40	18.56
0.00	0.00	0.00

Manual Integration:

Before

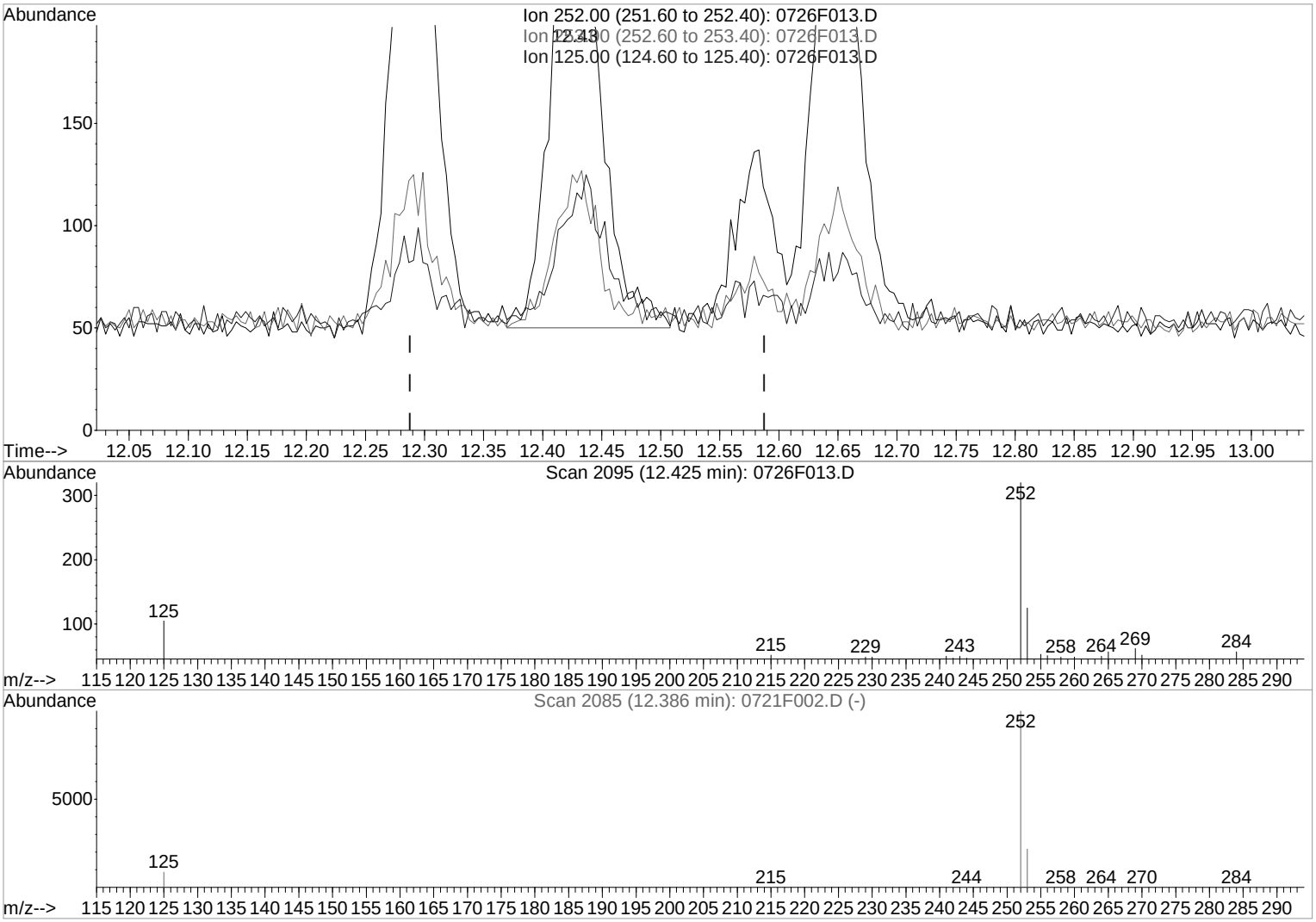
07/26/21

Quantitation Report (Qedit)

1st 07/28/21
2nd 07/29/21

Data File : J:\MS14\DATA\072621\0726F013.D Vial: 3
Acq On : 26 Jul 2021 6:31 pm Operator: E.Bruno
Sample : SIM-PAH @ .002ug/mL | SVM66-41A Inst : MS14
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 26 21:37 2021 Quant Results File: temp.res

Method : J:\MS14\METHODS\SIM\072621ALK.M (RTE Integrator)
Title : PAHS and ALKYLATED HOMOLOGS
Last Update : Tue Jul 06 13:28:06 2021
Response via : Multiple Level Calibration



TIC: 0726F013.D

(48) Benzo(a)pyrene (T)

12.43min 1.93ng/ml m

response 706

Ion	Exp%	Act%
252.00	100	100
253.00	21.20	39.06
125.00	7.40	32.81
0.00	0.00	0.00

Manual Integration:

After

BLC

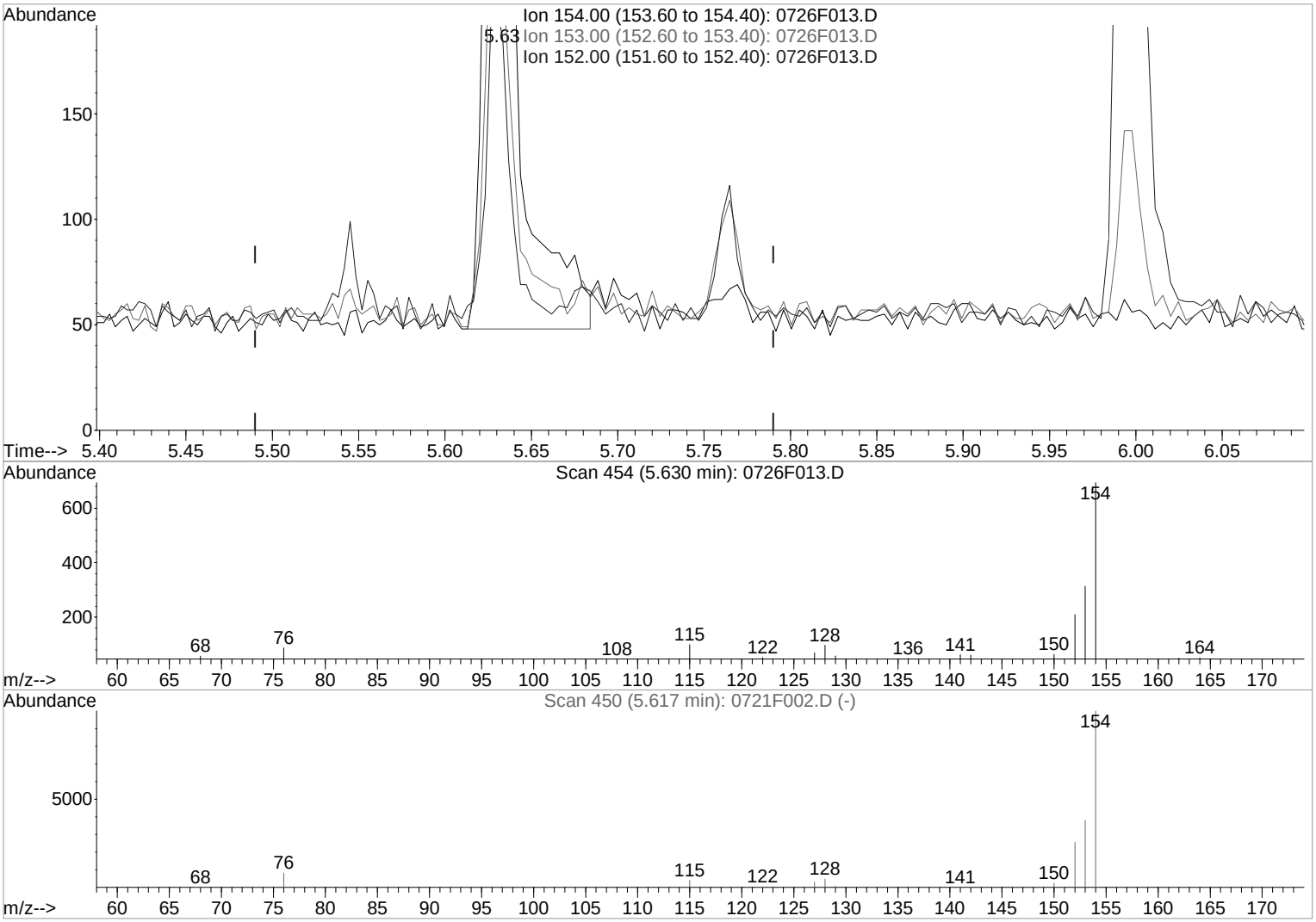
07/26/21

Quantitation Report (Qedit)

1st 07/28/21
2nd 07/29/21

Data File : J:\MS14\DATA\072621\0726F013.D Vial: 3
Acq On : 26 Jul 2021 6:31 pm Operator: E.Bruno
Sample : SIM-PAH @ .002ug/mL | SVM66-41A Inst : MS14
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 26 21:20 2021 Quant Results File: temp.res

Method : J:\MS14\METHODS\SIM\072621ALK.M (RTE Integrator)
Title : PAHS and ALKYLATED HOMOLOGS
Last Update : Tue Jul 06 13:28:06 2021
Response via : Multiple Level Calibration



TIC: 0726F013.D

(6) Biphenyl (T)

5.63min 2.38ng/ml

response 713

Ion	Exp%	Act%
154.00	100	100
153.00	37.80	40.87
152.00	26.80	23.22
0.00	0.00	0.00

Manual Integration:

Before

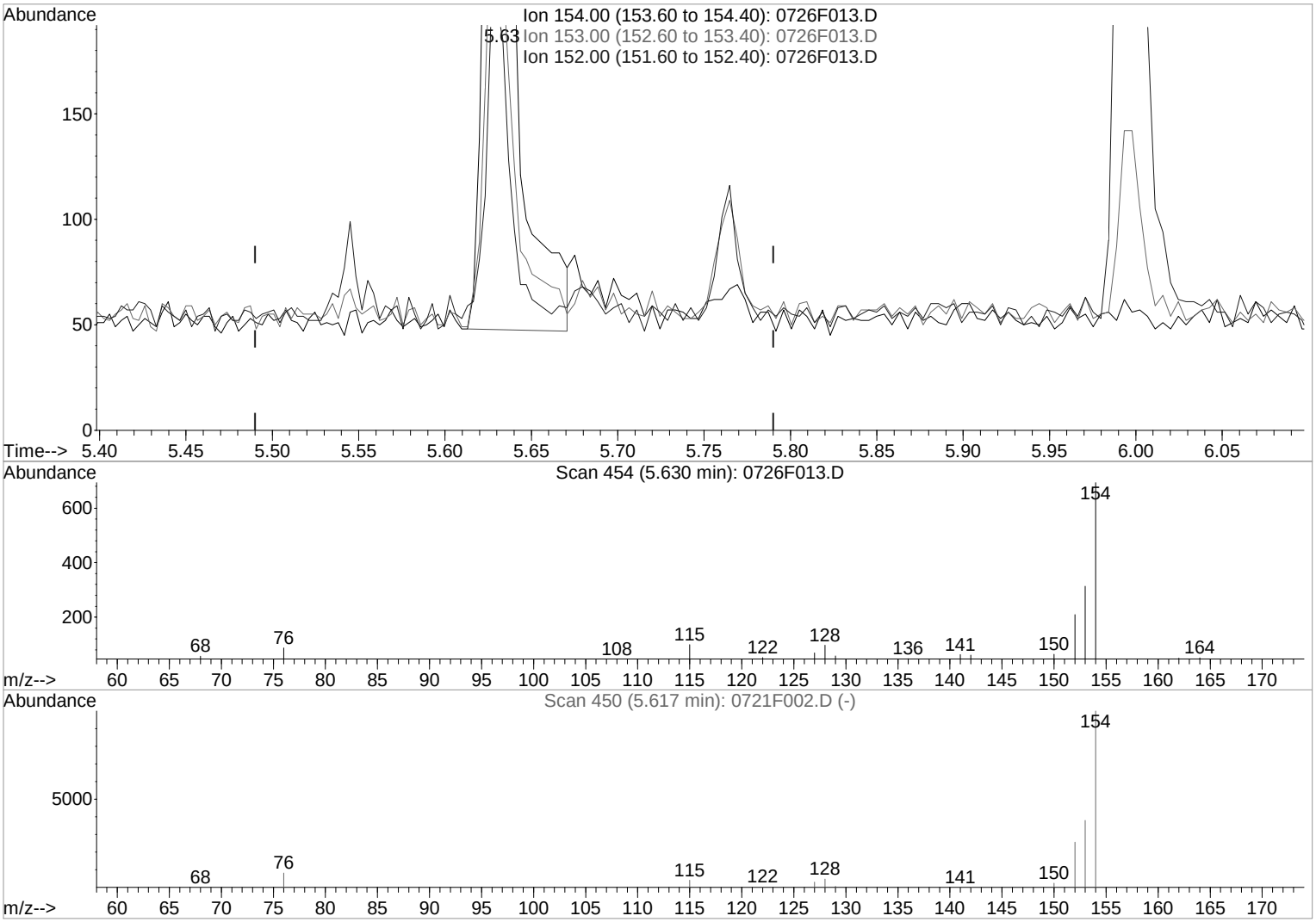
07/26/21

Quantitation Report (Qedit)

1st 07/28/21
2nd 07/29/21

Data File : J:\MS14\DATA\072621\0726F013.D Vial: 3
Acq On : 26 Jul 2021 6:31 pm Operator: E.Bruno
Sample : SIM-PAH @ .002ug/mL | SVM66-41A Inst : MS14
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 26 21:25 2021 Quant Results File: temp.res

Method : J:\MS14\METHODS\SIM\072621ALK.M (RTE Integrator)
Title : PAHS and ALKYLATED HOMOLOGS
Last Update : Tue Jul 06 13:28:06 2021
Response via : Multiple Level Calibration



TIC: 0726F013.D

(6) Biphenyl (T)

5.63min 2.29ng/ml m

response 688

Ion	Exp%	Act%
154.00	100	100
153.00	37.80	45.10
152.00	26.80	30.12
0.00	0.00	0.00

Manual Integration:

After

BLC

07/26/21

Quantitation Report (QT Reviewed)

1st 07/28/21
2nd 07/29/21

Data File : J:\MS14\DATA\072621\0726F014.D Vial: 4
Acq On : 26 Jul 2021 6:58 pm Operator: E.Bruno
Sample : SIM-PAH @ .004ug/mL | SVM66-41B Inst : MS14
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 26 21:20:58 2021 Quant Results File: 072621ALK.RES

Quant Method : J:\MS14\METHODS\SIM\072621ALK.M (RTE Integrator)
Title : PAHS and ALKYLATED HOMOLOGS
Last Update : Tue Jul 06 13:28:06 2021
Response via : Initial Calibration
DataAcq Meth : A_PAHAT05

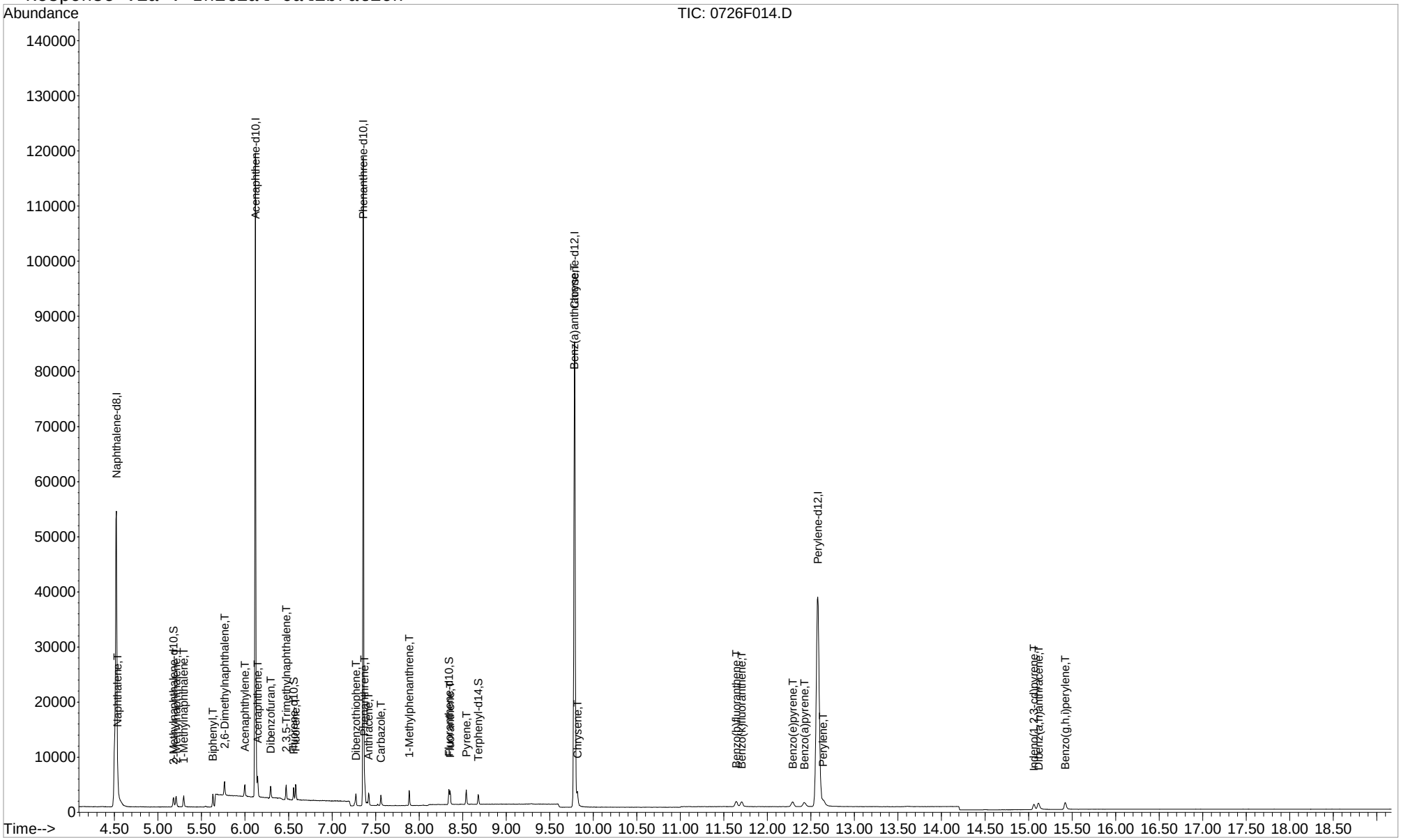
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Naphthalene-d8	4.52	136	62545	200.00	ng/ml	-0.01
12) Acenaphthene-d10	6.12	164	33113	200.00	ng/ml	0.00
22) Phenanthrene-d10	7.36	188	63574	200.00	ng/ml	0.00
34) Chrysene-d12	9.78	240	55239	200.00	ng/ml	-0.01
44) Perylene-d12	12.58	264	60543	200.00	ng/ml	-0.01
System Monitoring Compounds						
3) 2-Methylnaphthalene-d10	5.18	152	748	3.84	ng/ml	-0.01
Spiked Amount 200.000			Recovery =	1.92%		
17) Fluorene-d10	6.56	176	791	4.03	ng/ml	0.00
Spiked Amount 200.000			Recovery =	2.02%		
33) Fluoranthene-d10	8.34	212	1479	4.04	ng/ml	0.00
Spiked Amount 200.000			Recovery =	2.02%		
37) Terphenyl-d14	8.68	244	1162	4.34	ng/ml	-0.01
Spiked Amount 200.000			Recovery =	2.17%		
Target Compounds						Qvalue
2) Naphthalene	4.54	128	1375	4.70	ng/ml	99
4) 2-Methylnaphthalene	5.21	142	862	4.28	ng/ml	89
5) 1-Methylnaphthalene	5.30	142	806	4.30	ng/ml	99
6) Biphenyl	5.63	154	1328m	4.43	ng/ml	
7) 2,6-Dimethylnaphthalene	5.76	156	783	4.27	ng/ml	90
13) Acenaphthylene	6.00	152	1244	4.22	ng/ml	97
14) Acenaphthene	6.15	154	825	4.55	ng/ml	95
15) Dibenzofuran	6.29	168	1169	4.30	ng/ml	75
16) 2,3,5-Trimethylnaphthalene	6.47	170	748	4.25	ng/ml	90
18) Fluorene	6.58	166	991	4.74	ng/ml	98
23) Dibenzothiophene	7.27	184	1337	4.19	ng/ml	88
24) Phenanthrene	7.38	178	1540	4.67	ng/ml	98
25) Anthracene	7.42	178	1206	3.73	ng/ml	98
26) Carbazole	7.56	167	1197	4.06	ng/ml	96
27) 1-Methylphenanthrene	7.89	192	1036	4.35	ng/ml	98
32) Fluoranthene	8.36	202	1662	4.57	ng/ml	99
35) Pyrene	8.54	202	1719	4.91	ng/ml	97
38) Benz(a)anthracene	9.77	228	1690	4.49	ng/ml	97
39) Chrysene	9.82	228	1556	4.49	ng/ml	98
45) Benzo(b)fluoranthene	11.64	252	1525	4.01	ng/ml	99
46) Benzo(k)fluoranthene	11.71	252	1447m	3.95	ng/ml	
47) Benzo(e)pyrene	12.29	252	1492	4.10	ng/ml	95
48) Benzo(a)pyrene	12.42	252	1405	3.89	ng/ml	92
49) Perylene	12.65	252	1299	3.96	ng/ml	94
50) Indeno(1,2,3-cd)pyrene	15.06	276	1244	3.86	ng/ml	96
51) Dibenz(a,h)anthracene	15.12	278	1228	3.74	ng/ml	95
52) Benzo(g,h,i)perylene	15.42	276	1593	4.38	ng/ml	96

(#) = qualifier out of range (m) = manual integration

1st 07/28/21
2nd 07/29/21

Data File : J:\MS14\DATA\072621\0726F014.D Vial: 4
Acq On : 26 Jul 2021 6:58 pm Operator: E.Bruno
Sample : SIM-PAH @ .004ug/mL | SVM66-41B Inst : MS14
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 26 21:40 2021 Quant Results File: 072621ALK.RES

Method : J:\MS14\METHODS\SIM\072621ALK.M (RTE Integrator)
Title : PAHS and ALKYLATED HOMOLOGS
Last Update : Mon Jul 26 23:01:28 2021
Response via : Initial Calibration

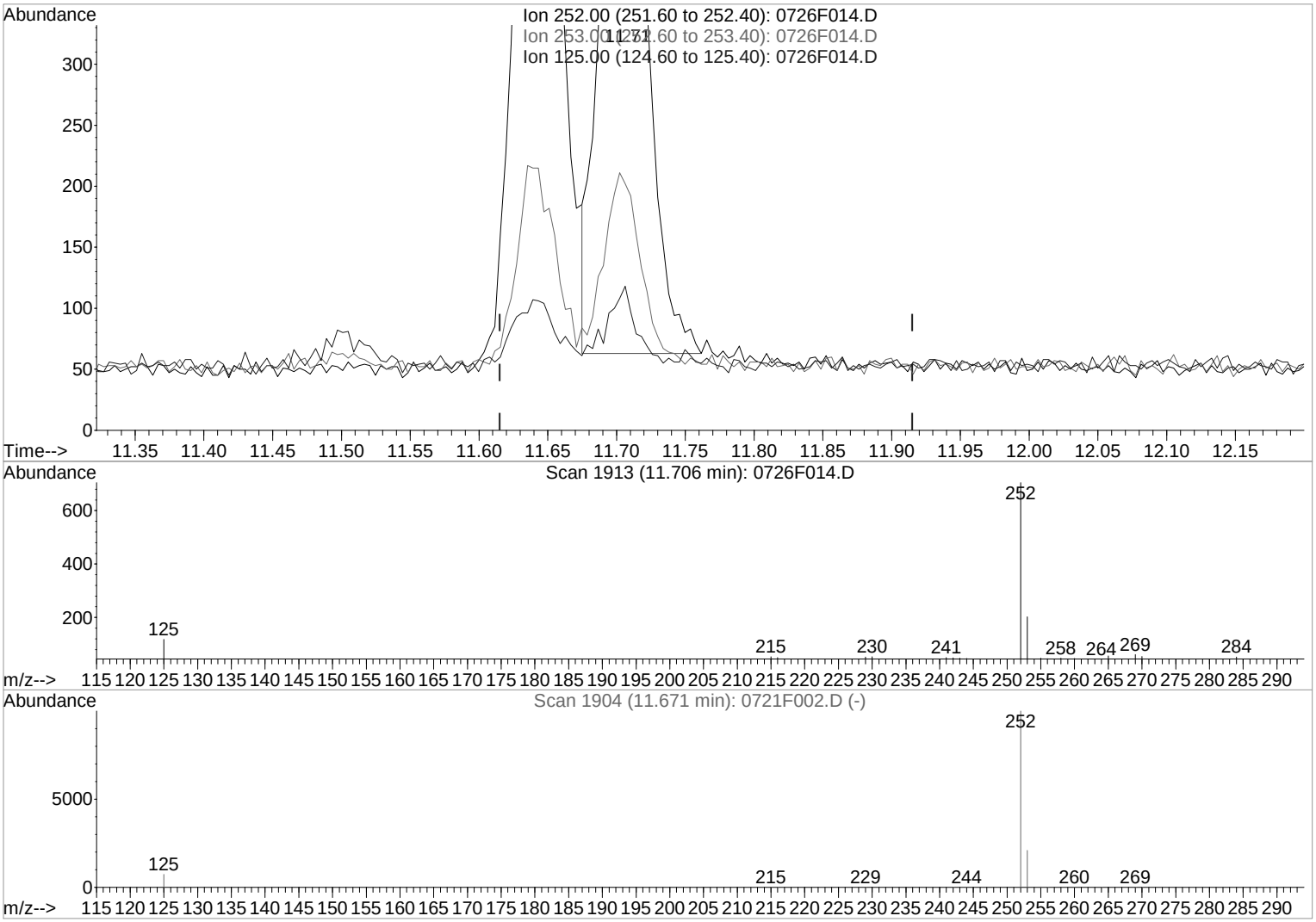


Quantitation Report (Qedit)

1st 07/28/21
2nd 07/29/21

Data File : J:\MS14\DATA\072621\0726F014.D Vial: 4
Acq On : 26 Jul 2021 6:58 pm Operator: E.Bruno
Sample : SIM-PAH @ .004ug/mL | SVM66-41B Inst : MS14
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 26 21:38 2021 Quant Results File: temp.res

Method : J:\MS14\METHODS\SIM\072621ALK.M (RTE Integrator)
Title : PAHS and ALKYLATED HOMOLOGS
Last Update : Tue Jul 06 13:28:06 2021
Response via : Multiple Level Calibration



TIC: 0726F014.D

(46) Benzo(k)fluoranthene (T)

11.71min 3.78ng/ml

response 1385

Ion	Exp%	Act%
252.00	100	100
253.00	21.40	23.05
125.00	6.50	9.81
0.00	0.00	0.00

Manual Integration:

Before

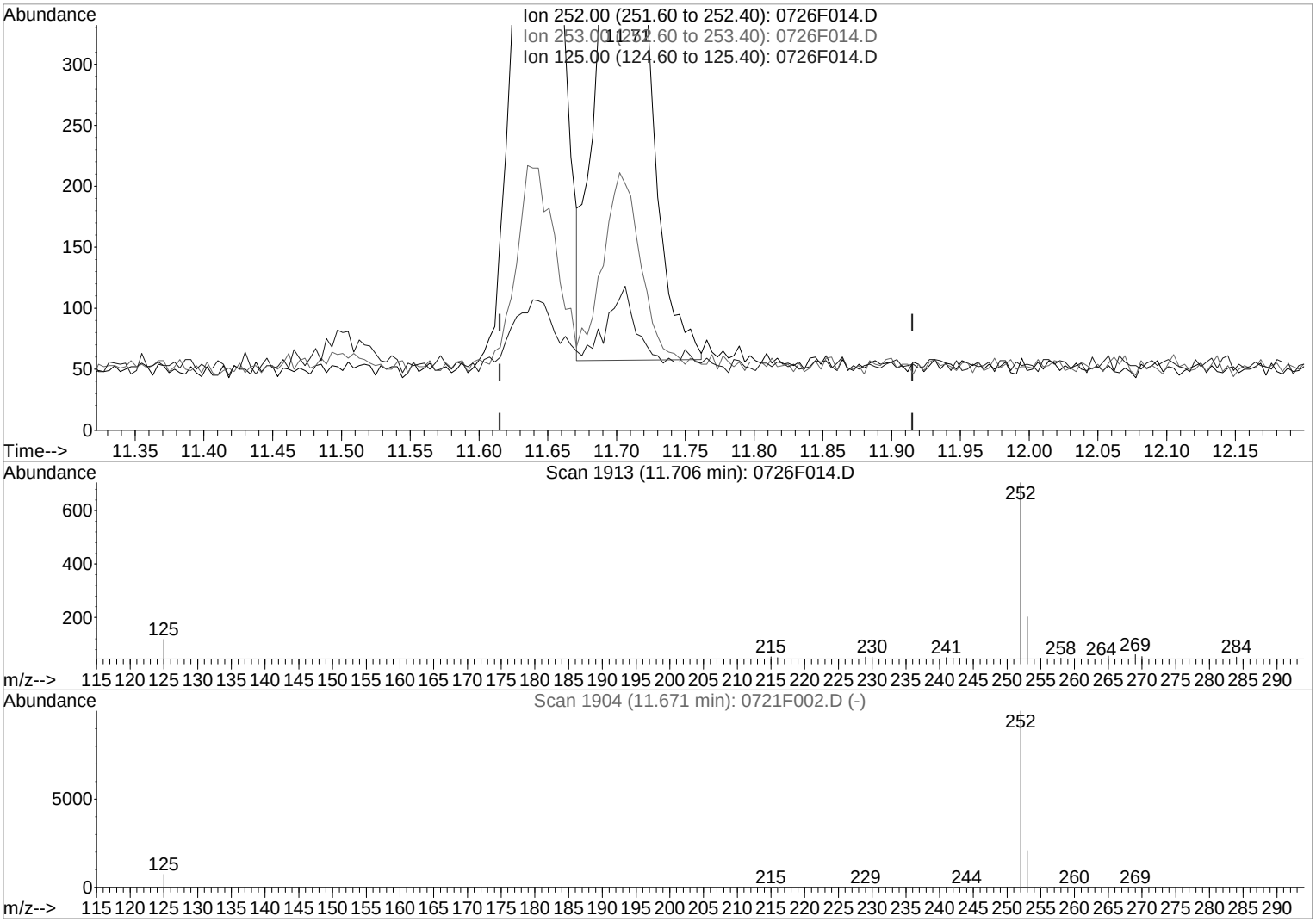
07/26/21

Quantitation Report (Qedit)

1st 07/28/21
2nd 07/29/21

Data File : J:\MS14\DATA\072621\0726F014.D Vial: 4
Acq On : 26 Jul 2021 6:58 pm Operator: E.Bruno
Sample : SIM-PAH @ .004ug/mL | SVM66-41B Inst : MS14
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 26 21:40 2021 Quant Results File: temp.res

Method : J:\MS14\METHODS\SIM\072621ALK.M (RTE Integrator)
Title : PAHS and ALKYLATED HOMOLOGS
Last Update : Tue Jul 06 13:28:06 2021
Response via : Multiple Level Calibration



TIC: 0726F014.D

(46) Benzo(k)fluoranthene (T)

11.71min 3.95ng/ml m

response 1447

Ion	Exp%	Act%
252.00	100	100
253.00	21.40	28.65
125.00	6.50	16.74
0.00	0.00	0.00

Manual Integration:

After

IC-Incomplete

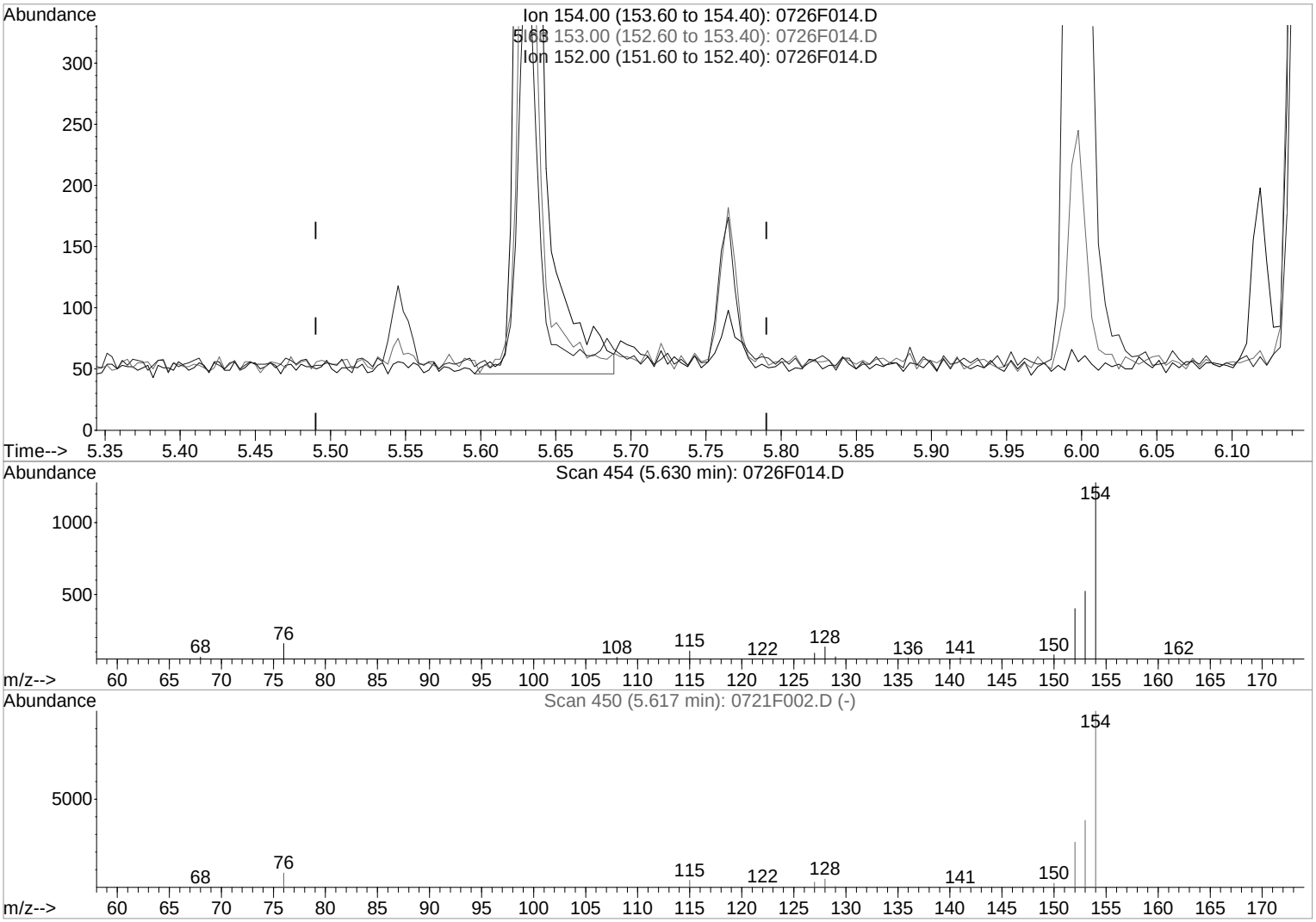
07/26/21

Quantitation Report (Qedit)

1st 07/28/21
2nd 07/29/21

Data File : J:\MS14\DATA\072621\0726F014.D Vial: 4
Acq On : 26 Jul 2021 6:58 pm Operator: E.Bruno
Sample : SIM-PAH @ .004ug/mL | SVM66-41B Inst : MS14
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 26 21:20 2021 Quant Results File: temp.res

Method : J:\MS14\METHODS\SIM\072621ALK.M (RTE Integrator)
Title : PAHS and ALKYLATED HOMOLOGS
Last Update : Tue Jul 06 13:28:06 2021
Response via : Multiple Level Calibration



TIC: 0726F014.D

(6) Biphenyl (T)

5.63min 4.52ng/ml

response 1353

Ion	Exp%	Act%
154.00	100	100
153.00	37.80	37.76
152.00	26.80	28.28
0.00	0.00	0.00

Manual Integration:

Before

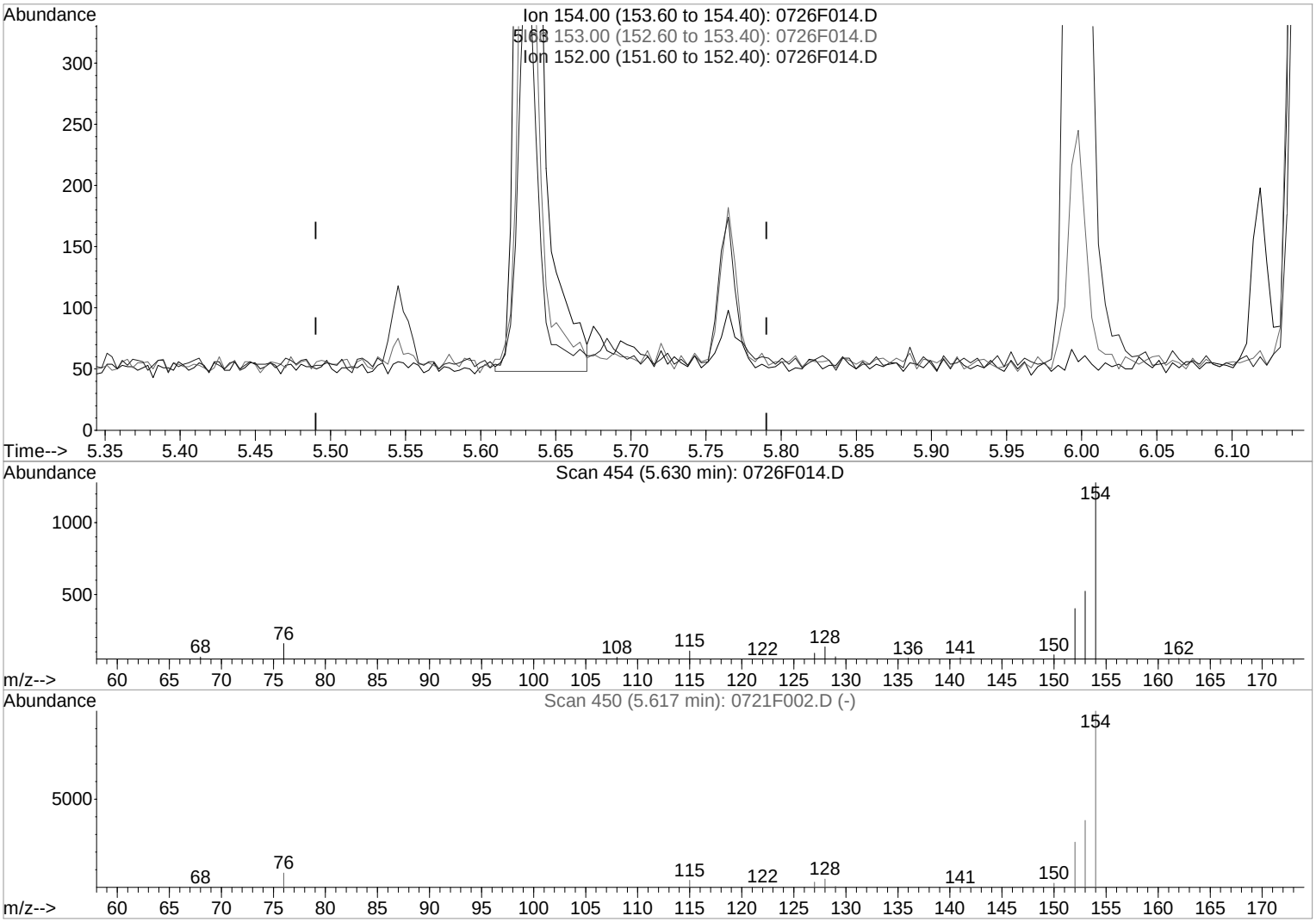
07/26/21

Quantitation Report (Qedit)

1st 07/28/21
2nd 07/29/21

Data File : J:\MS14\DATA\072621\0726F014.D Vial: 4
Acq On : 26 Jul 2021 6:58 pm Operator: E.Bruno
Sample : SIM-PAH @ .004ug/mL | SVM66-41B Inst : MS14
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 26 21:38 2021 Quant Results File: temp.res

Method : J:\MS14\METHODS\SIM\072621ALK.M (RTE Integrator)
Title : PAHS and ALKYLATED HOMOLOGS
Last Update : Tue Jul 06 13:28:06 2021
Response via : Multiple Level Calibration



TIC: 0726F014.D

(6) Biphenyl (T)

5.63min 4.43ng/ml m

response 1328

Ion	Exp%	Act%
154.00	100	100
153.00	37.80	40.86
152.00	26.80	31.33
0.00	0.00	0.00

Manual Integration:

After

IC-Overintegrated

07/26/21

Quantitation Report (QT Reviewed)

1st 07/28/21
2nd 07/29/21

Data File : J:\MS14\DATA\072621\0726F015.D Vial: 5
Acq On : 26 Jul 2021 7:24 pm Operator: E.Bruno
Sample : SIM-PAH @ .008ug/mL | SVM66-41C Inst : MS14
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 26 21:20:59 2021 Quant Results File: 072621ALK.RES

Quant Method : J:\MS14\METHODS\SIM\072621ALK.M (RTE Integrator)
Title : PAHS and ALKYLATED HOMOLOGS
Last Update : Tue Jul 06 13:28:06 2021
Response via : Initial Calibration
DataAcq Meth : A_PAHAT05

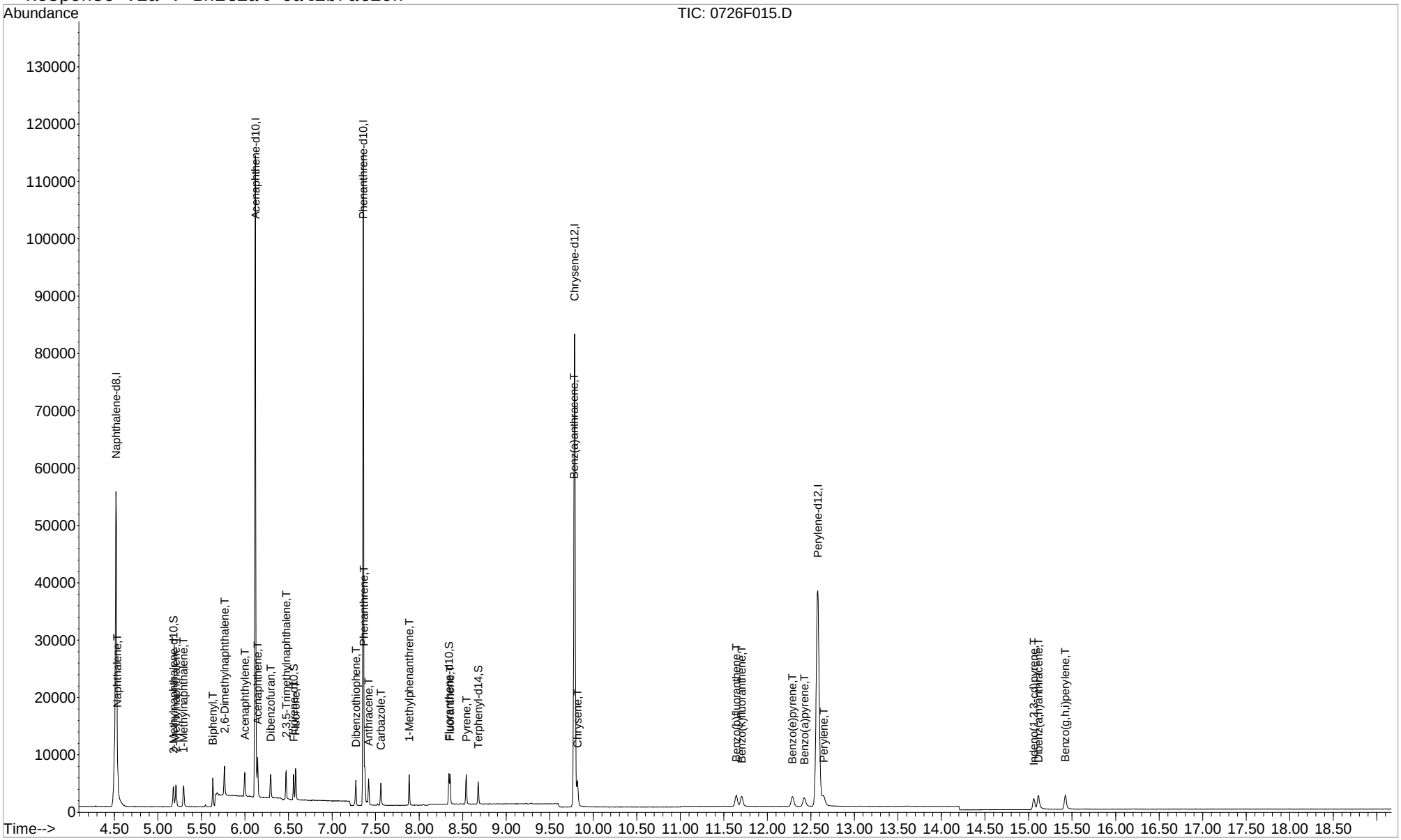
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Naphthalene-d8	4.52	136	62434	200.00	ng/ml	-0.01
12) Acenaphthene-d10	6.12	164	32840	200.00	ng/ml	0.00
22) Phenanthrene-d10	7.36	188	62635	200.00	ng/ml	0.00
34) Chrysene-d12	9.79	240	54900	200.00	ng/ml	-0.01
44) Perylene-d12	12.58	264	60210	200.00	ng/ml	-0.01
System Monitoring Compounds						
3) 2-Methylnaphthalene-d10	5.18	152	1525	7.83	ng/ml	-0.01
Spiked Amount 200.000			Recovery =	3.91%		
17) Fluorene-d10	6.56	176	1541	7.91	ng/ml	0.00
Spiked Amount 200.000			Recovery =	3.96%		
33) Fluoranthene-d10	8.34	212	2860	7.93	ng/ml	0.00
Spiked Amount 200.000			Recovery =	3.96%		
37) Terphenyl-d14	8.68	244	2294	8.62	ng/ml	0.00
Spiked Amount 200.000			Recovery =	4.31%		
Target Compounds						Qvalue
2) Naphthalene	4.54	128	2592	8.88	ng/ml	99
4) 2-Methylnaphthalene	5.21	142	1750	8.71	ng/ml	96
5) 1-Methylnaphthalene	5.29	142	1626	8.68	ng/ml	94
6) Biphenyl	5.63	154	2686	8.98	ng/ml	99
7) 2,6-Dimethylnaphthalene	5.76	156	1588	8.67	ng/ml	97
13) Acenaphthylene	6.00	152	2481	8.48	ng/ml	99
14) Acenaphthene	6.15	154	1626	9.04	ng/ml	96
15) Dibenzofuran	6.29	168	2301	8.53	ng/ml	79
16) 2,3,5-Trimethylnaphthalene	6.47	170	1455	8.34	ng/ml	90
18) Fluorene	6.58	166	1889	9.11	ng/ml	96
23) Dibenzothiophene	7.27	184	2573	8.19	ng/ml	90
24) Phenanthrene	7.37	178	2921	8.99	ng/ml	98
25) Anthracene	7.42	178	2377	7.45	ng/ml	98
26) Carbazole	7.56	167	2348	8.09	ng/ml	99
27) 1-Methylphenanthrene	7.89	192	2026m	8.63	ng/ml	
32) Fluoranthene	8.36	202	3264	9.12	ng/ml	99
35) Pyrene	8.54	202	3402	9.78	ng/ml	98
38) Benz(a)anthracene	9.77	228	3102	8.29	ng/ml	98
39) Chrysene	9.82	228	3033	8.80	ng/ml	99
45) Benzo(b)fluoranthene	11.64	252	3090	8.18	ng/ml	96
46) Benzo(k)fluoranthene	11.71	252	2798	7.68	ng/ml	99
47) Benzo(e)pyrene	12.29	252	2988	8.27	ng/ml	98
48) Benzo(a)pyrene	12.43	252	2618	7.29	ng/ml	94
49) Perylene	12.65	252	2682	8.21	ng/ml	98
50) Indeno(1,2,3-cd)pyrene	15.06	276	2441	7.62	ng/ml	97
51) Dibenz(a,h)anthracene	15.11	278	2603	7.98	ng/ml	98
52) Benzo(g,h,i)perylene	15.42	276	3176	8.79	ng/ml	98

(#) = qualifier out of range (m) = manual integration

1st 07/28/21
2nd 07/29/21

Data File : J:\MS14\DATA\072621\0726F015.D Vial: 5
Acq On : 26 Jul 2021 7:24 pm Operator: E.Bruno
Sample : SIM-PAH @ .008ug/mL | SVM66-41C Inst : MS14
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 26 21:42 2021 Quant Results File: 072621ALK.RES

Method : J:\MS14\METHODS\SIM\072621ALK.M (RTE Integrator)
Title : PAHS and ALKYLATED HOMOLOGS
Last Update : Mon Jul 26 23:01:28 2021
Response via : Initial Calibration

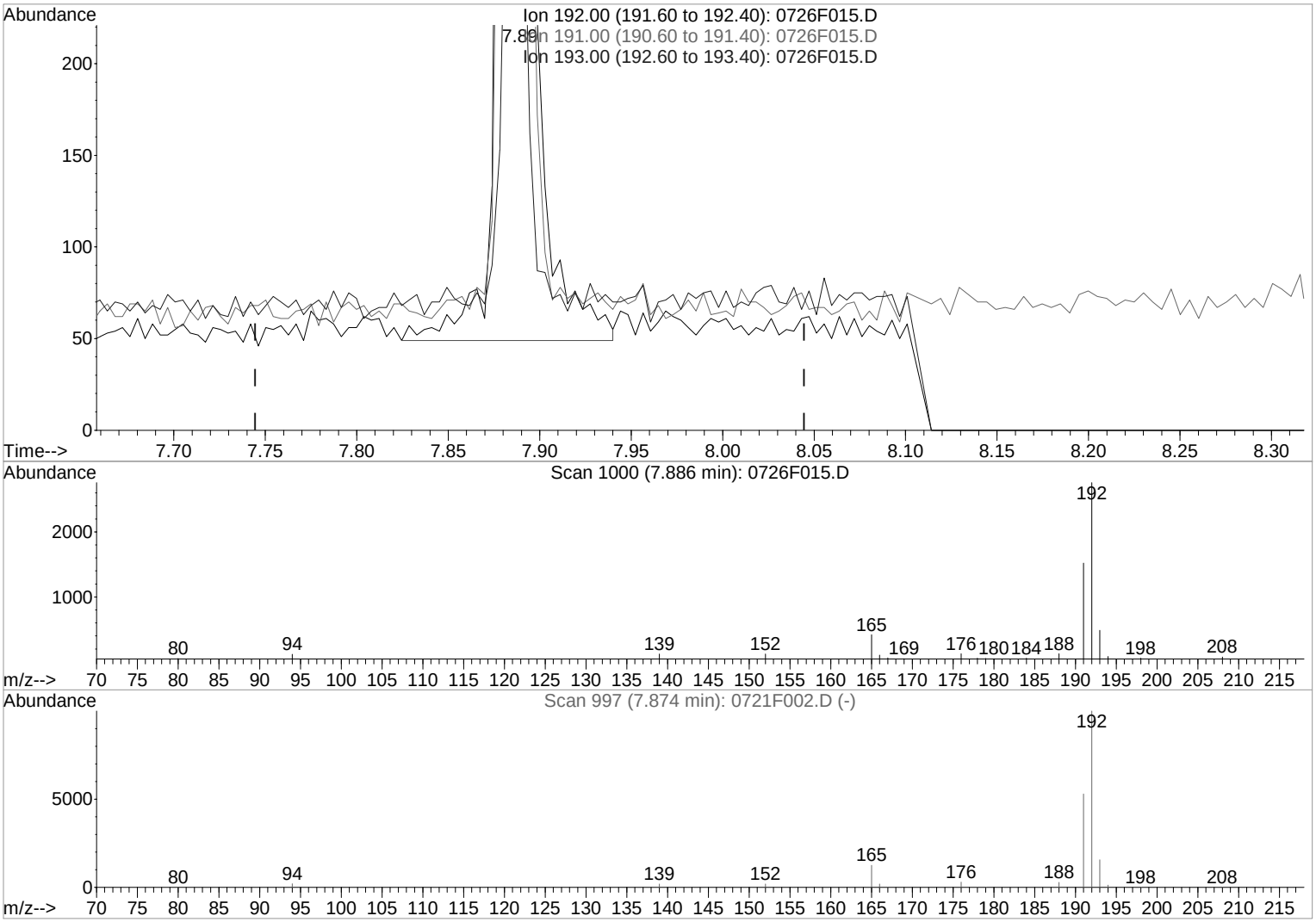


Quantitation Report (Qedit)

1st 07/28/21
2nd 07/29/21

Data File : J:\MS14\DATA\072621\0726F015.D Vial: 5
Acq On : 26 Jul 2021 7:24 pm Operator: E.Bruno
Sample : SIM-PAH @ .008ug/mL | SVM66-41C Inst : MS14
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 26 21:20 2021 Quant Results File: temp.res

Method : J:\MS14\METHODS\SIM\072621ALK.M (RTE Integrator)
Title : PAHS and ALKYLATED HOMOLOGS
Last Update : Tue Jul 06 13:28:06 2021
Response via : Multiple Level Calibration



TIC: 0726F015.D

(27) 1-Methylphenanthrene (T)

7.89min 8.90ng/ml

response 2090

Ion	Exp%	Act%
192.00	100	100
191.00	50.90	53.63
193.00	15.40	15.42
0.00	0.00	0.00

Manual Integration:

Before

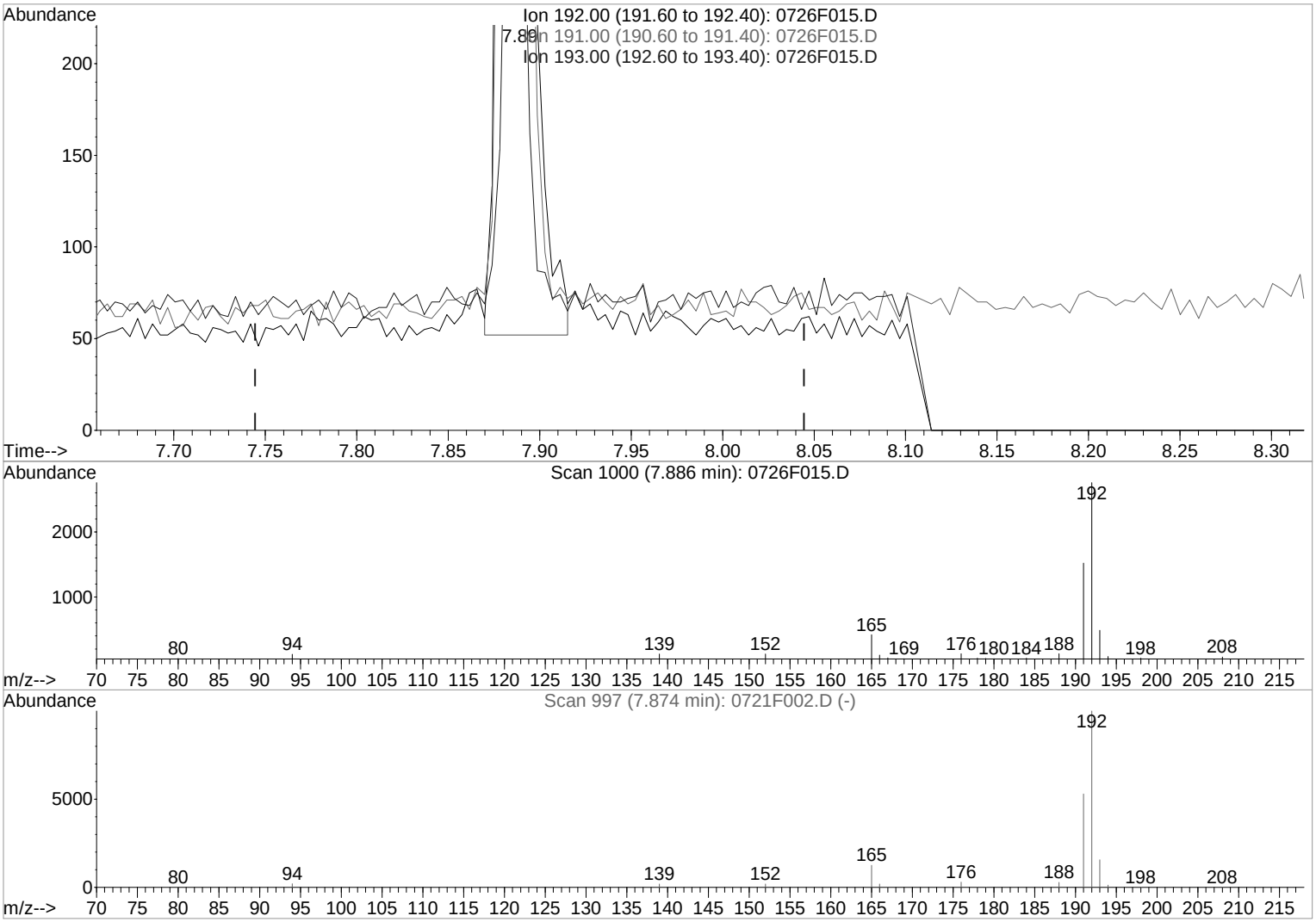
07/26/21

Quantitation Report (Qedit)

1st 07/28/21
2nd 07/29/21

Data File : J:\MS14\DATA\072621\0726F015.D Vial: 5
Acq On : 26 Jul 2021 7:24 pm Operator: E.Bruno
Sample : SIM-PAH @ .008ug/mL | SVM66-41C Inst : MS14
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 26 21:42 2021 Quant Results File: temp.res

Method : J:\MS14\METHODS\SIM\072621ALK.M (RTE Integrator)
Title : PAHS and ALKYLATED HOMOLOGS
Last Update : Tue Jul 06 13:28:06 2021
Response via : Multiple Level Calibration



TIC: 0726F015.D

(27) 1-Methylphenanthrene (T)

7.89min 8.63ng/ml m

response 2026

Ion	Exp%	Act%
192.00	100	100
191.00	50.90	55.07
193.00	15.40	17.61
0.00	0.00	0.00

Manual Integration:

After

IC-Overintegrated

07/26/21

Quantitation Report (QT Reviewed)

1st 07/28/21
2nd 07/29/21

Data File : J:\MS14\DATA\072621\0726F016.D Vial: 6
Acq On : 26 Jul 2021 7:51 pm Operator: E.Bruno
Sample : SIM-PAH @ .02ug/mL | SVM66-41D Inst : MS14
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 26 21:20:59 2021 Quant Results File: 072621ALK.RES

Quant Method : J:\MS14\METHODS\SIM\072621ALK.M (RTE Integrator)
Title : PAHS and ALKYLATED HOMOLOGS
Last Update : Tue Jul 06 13:28:06 2021
Response via : Initial Calibration
DataAcq Meth : A_PAHAT05

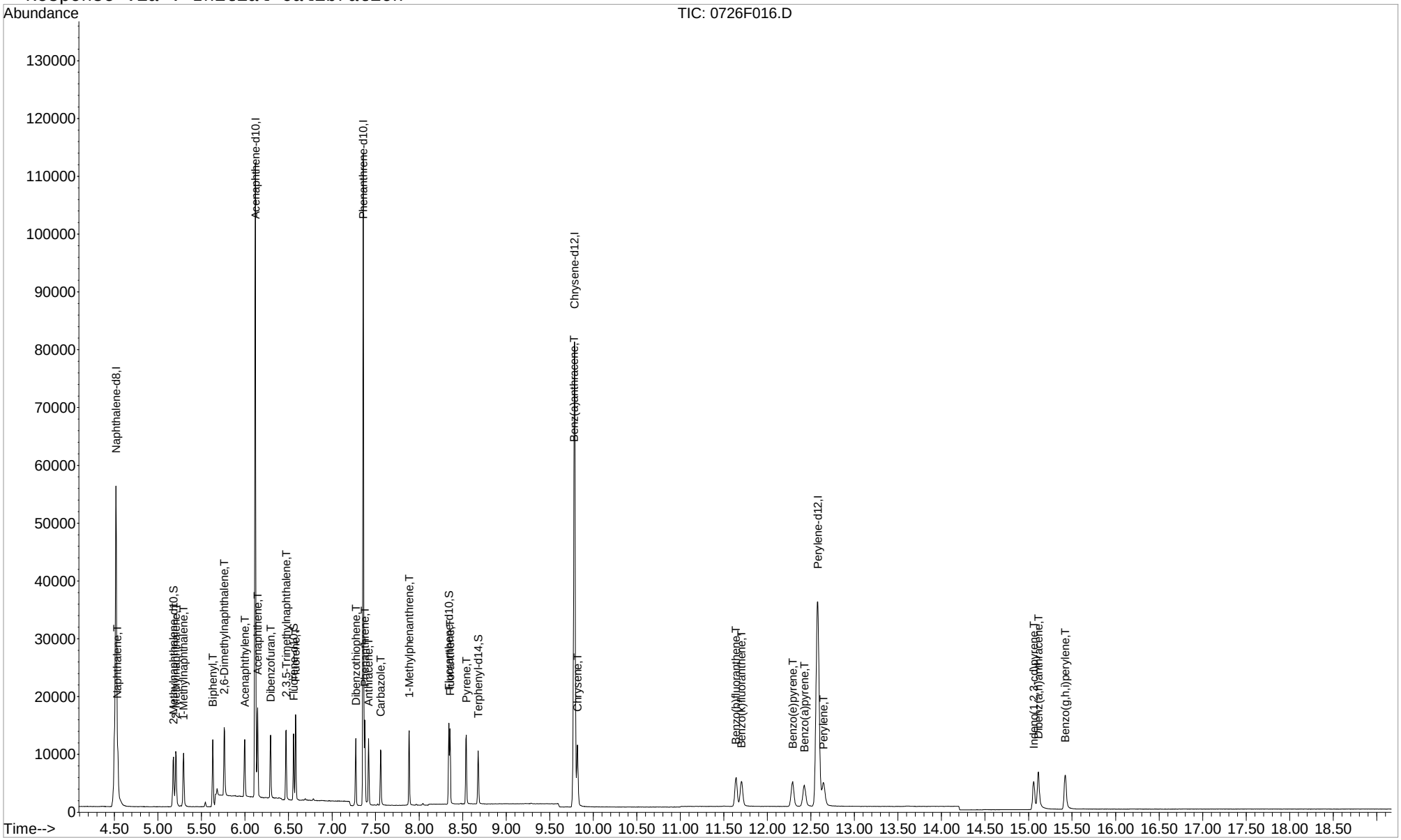
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Naphthalene-d8	4.52	136	62536	200.00	ng/ml	-0.01
12) Acenaphthene-d10	6.12	164	32406	200.00	ng/ml	0.00
22) Phenanthrene-d10	7.36	188	61693	200.00	ng/ml	0.00
34) Chrysene-d12	9.79	240	53969	200.00	ng/ml	-0.01
44) Perylene-d12	12.58	264	59456	200.00	ng/ml	-0.01
System Monitoring Compounds						
3) 2-Methylnaphthalene-d10	5.18	152	3801	19.50	ng/ml	-0.01
Spiked Amount 200.000			Recovery =	9.75%		
17) Fluorene-d10	6.56	176	3884	20.20	ng/ml	0.00
Spiked Amount 200.000			Recovery =	10.10%		
33) Fluoranthene-d10	8.34	212	6955	19.57	ng/ml	0.00
Spiked Amount 200.000			Recovery =	9.79%		
37) Terphenyl-d14	8.68	244	5624	21.49	ng/ml	0.00
Spiked Amount 200.000			Recovery =	10.74%		
Target Compounds						Qvalue
2) Naphthalene	4.54	128	6599	22.56	ng/ml	99
4) 2-Methylnaphthalene	5.21	142	4352	21.62	ng/ml	95
5) 1-Methylnaphthalene	5.29	142	4001	21.33	ng/ml	93
6) Biphenyl	5.63	154	6561	21.91	ng/ml	100
7) 2,6-Dimethylnaphthalene	5.76	156	3762	20.50	ng/ml	98
13) Acenaphthylene	6.00	152	6064	21.00	ng/ml	97
14) Acenaphthene	6.15	154	3989	22.47	ng/ml	94
15) Dibenzofuran	6.29	168	5786	21.75	ng/ml	87
16) 2,3,5-Trimethylnaphthalene	6.47	170	3578	20.79	ng/ml	95
18) Fluorene	6.58	166	4600	22.49	ng/ml	97
23) Dibenzothiophene	7.27	184	6464	20.89	ng/ml	92
24) Phenanthrene	7.38	178	7229	22.60	ng/ml	100
25) Anthracene	7.42	178	5805	18.48	ng/ml	97
26) Carbazole	7.56	167	6001	20.99	ng/ml	97
27) 1-Methylphenanthrene	7.89	192	5080	21.97	ng/ml	98
32) Fluoranthene	8.36	202	8126	23.05	ng/ml	100
35) Pyrene	8.54	202	8392	24.54	ng/ml	99
38) Benz(a)anthracene	9.77	228	7375	20.05	ng/ml	98
39) Chrysene	9.82	228	7447	21.98	ng/ml	97
45) Benzo(b)fluoranthene	11.64	252	7727	20.71	ng/ml	98
46) Benzo(k)fluoranthene	11.70	252	7285	20.24	ng/ml	98
47) Benzo(e)pyrene	12.29	252	7463	20.91	ng/ml	98
48) Benzo(a)pyrene	12.43	252	6622	18.68	ng/ml	96
49) Perylene	12.65	252	6867	21.30	ng/ml	98
50) Indeno(1,2,3-cd)pyrene	15.06	276	6075	19.20	ng/ml	97
51) Dibenz(a,h)anthracene	15.11	278	6531	20.28	ng/ml	97
52) Benzo(g,h,i)perylene	15.42	276	8094	22.68	ng/ml	97

(#) = qualifier out of range (m) = manual integration

1st 07/28/21
2nd 07/29/21

Data File : J:\MS14\DATA\072621\0726F016.D Vial: 6
Acq On : 26 Jul 2021 7:51 pm Operator: E.Bruno
Sample : SIM-PAH @ .02ug/mL | SVM66-41D Inst : MS14
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 26 21:21 2021 Quant Results File: 072621ALK.RES

Method : J:\MS14\METHODS\SIM\072621ALK.M (RTE Integrator)
Title : PAHS and ALKYLATED HOMOLOGS
Last Update : Mon Jul 26 23:01:28 2021
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

1st 07/28/21
2nd 07/29/21

Data File : J:\MS14\DATA\072621\0726F017.D Vial: 7
Acq On : 26 Jul 2021 8:18 pm Operator: E.Bruno
Sample : SIM-PAH @ .1ug/mL | SVM66-41E Inst : MS14
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 26 21:21:00 2021 Quant Results File: 072621ALK.RES

Quant Method : J:\MS14\METHODS\SIM\072621ALK.M (RTE Integrator)
Title : PAHS and ALKYLATED HOMOLOGS
Last Update : Tue Jul 06 13:28:06 2021
Response via : Initial Calibration
DataAcq Meth : A_PAHAT05

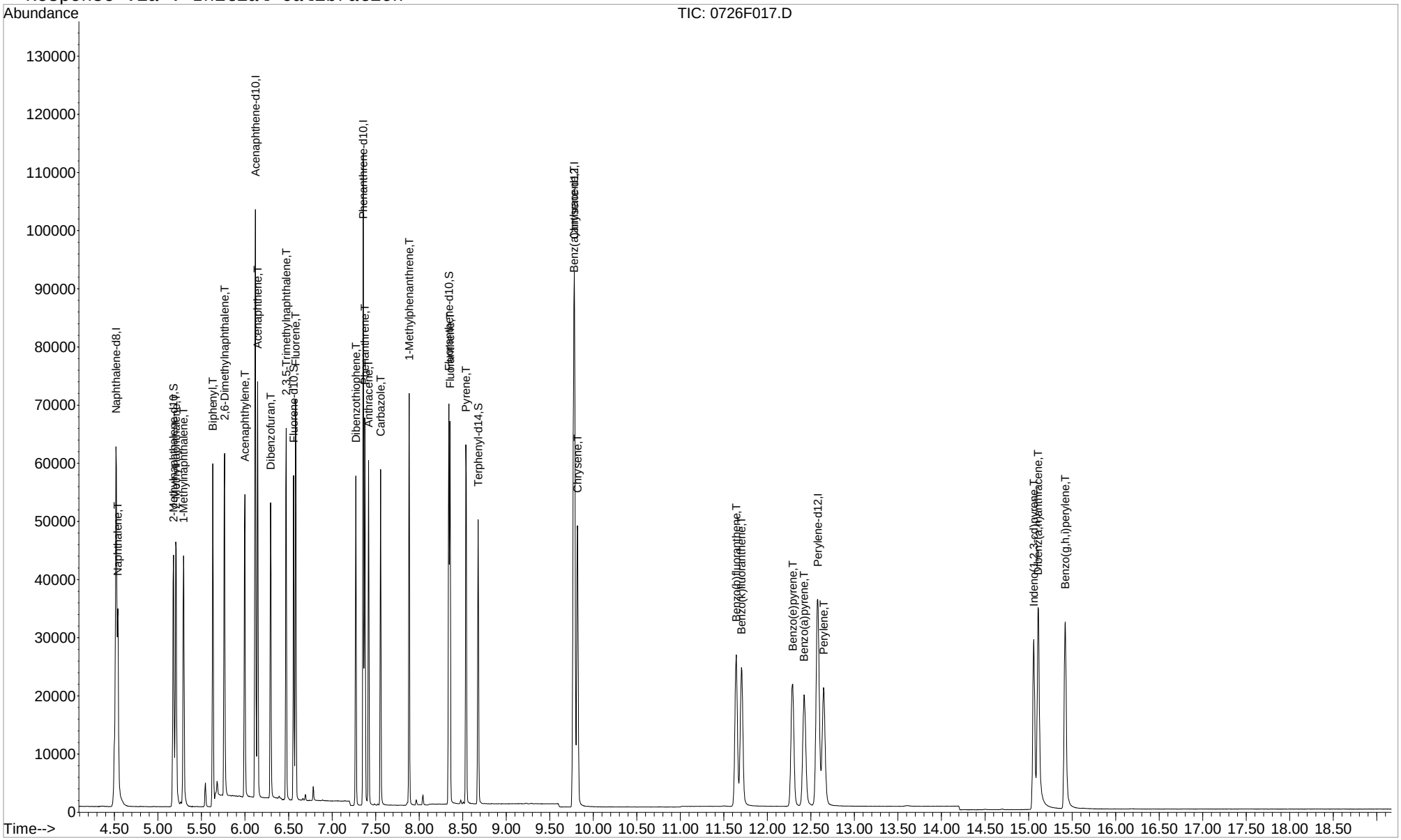
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Naphthalene-d8	4.52	136	62426	200.00	ng/ml	-0.01
12) Acenaphthene-d10	6.12	164	30536	200.00	ng/ml	0.00
22) Phenanthrene-d10	7.36	188	58769	200.00	ng/ml	0.00
34) Chrysene-d12	9.79	240	54244	200.00	ng/ml	-0.01
44) Perylene-d12	12.58	264	59324	200.00	ng/ml	-0.01
System Monitoring Compounds						
3) 2-Methylnaphthalene-d10	5.18	152	18406	94.57	ng/ml	-0.01
Spiked Amount 200.000			Recovery = 47.28%			
17) Fluorene-d10	6.56	176	18303	101.04	ng/ml	0.00
Spiked Amount 200.000			Recovery = 50.52%			
33) Fluoranthene-d10	8.34	212	35312	104.31	ng/ml	0.00
Spiked Amount 200.000			Recovery = 52.15%			
37) Terphenyl-d14	8.68	244	28366	107.82	ng/ml	-0.01
Spiked Amount 200.000			Recovery = 53.91%			
Target Compounds						Qvalue
2) Naphthalene	4.54	128	31764	108.78	ng/ml	99
4) 2-Methylnaphthalene	5.21	142	20801	103.52	ng/ml	97
5) 1-Methylnaphthalene	5.29	142	19061	101.81	ng/ml	94
6) Biphenyl	5.63	154	30191	100.98	ng/ml	99
7) 2,6-Dimethylnaphthalene	5.76	156	17886	97.65	ng/ml	98
13) Acenaphthylene	6.00	152	29494	108.37	ng/ml	99
14) Acenaphthene	6.15	154	18635	111.40	ng/ml	97
15) Dibenzofuran	6.29	168	27139	108.25	ng/ml	76
16) 2,3,5-Trimethylnaphthalene	6.47	170	17330	106.84	ng/ml	92
18) Fluorene	6.58	166	21670	112.43	ng/ml	96
23) Dibenzothiophene	7.27	184	31143	105.66	ng/ml	89
24) Phenanthrene	7.37	178	33571	110.18	ng/ml	98
25) Anthracene	7.42	178	28593	95.56	ng/ml	99
26) Carbazole	7.56	167	29583	108.63	ng/ml	98
27) 1-Methylphenanthrene	7.89	192	24871	112.90	ng/ml	97
32) Fluoranthene	8.36	202	40362	120.18	ng/ml	98
35) Pyrene	8.54	202	41917	121.96	ng/ml	92
38) Benz(a)anthracene	9.77	228	37399	101.17	ng/ml	98
39) Chrysene	9.82	228	37850	111.13	ng/ml	98
45) Benzo(b)fluoranthene	11.64	252	40442	108.63	ng/ml	99
46) Benzo(k)fluoranthene	11.70	252	39877	111.06	ng/ml	99
47) Benzo(e)pyrene	12.29	252	37831	106.22	ng/ml	98
48) Benzo(a)pyrene	12.42	252	35914	101.52	ng/ml	97
49) Perylene	12.65	252	35588	110.63	ng/ml	98
50) Indeno(1,2,3-cd)pyrene	15.06	276	33864	107.26	ng/ml	97
51) Dibenz(a,h)anthracene	15.11	278	36598	113.89	ng/ml	97
52) Benzo(g,h,i)perylene	15.42	276	40720	114.36	ng/ml	98

(#) = qualifier out of range (m) = manual integration

1st 07/28/21
2nd 07/29/21

Data File : J:\MS14\DATA\072621\0726F017.D Vial: 7
Acq On : 26 Jul 2021 8:18 pm Operator: E.Bruno
Sample : SIM-PAH @ .1ug/mL | SVM66-41E Inst : MS14
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 26 21:21 2021 Quant Results File: 072621ALK.RES

Method : J:\MS14\METHODS\SIM\072621ALK.M (RTE Integrator)
Title : PAHS and ALKYLATED HOMOLOGS
Last Update : Mon Jul 26 23:01:28 2021
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

1st 07/28/21
2nd 07/29/21

Data File : J:\MS14\DATA\072621\0726F018.D Vial: 8
Acq On : 26 Jul 2021 8:44 pm Operator: E.Bruno
Sample : SIM-PAH @ .2ug/mL | SVM66-41F Inst : MS14
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 26 21:21:01 2021 Quant Results File: 072621ALK.RES

Quant Method : J:\MS14\METHODS\SIM\072621ALK.M (RTE Integrator)
Title : PAHS and ALKYLATED HOMOLOGS
Last Update : Tue Jul 06 13:28:06 2021
Response via : Initial Calibration
DataAcq Meth : A_PAHAT05

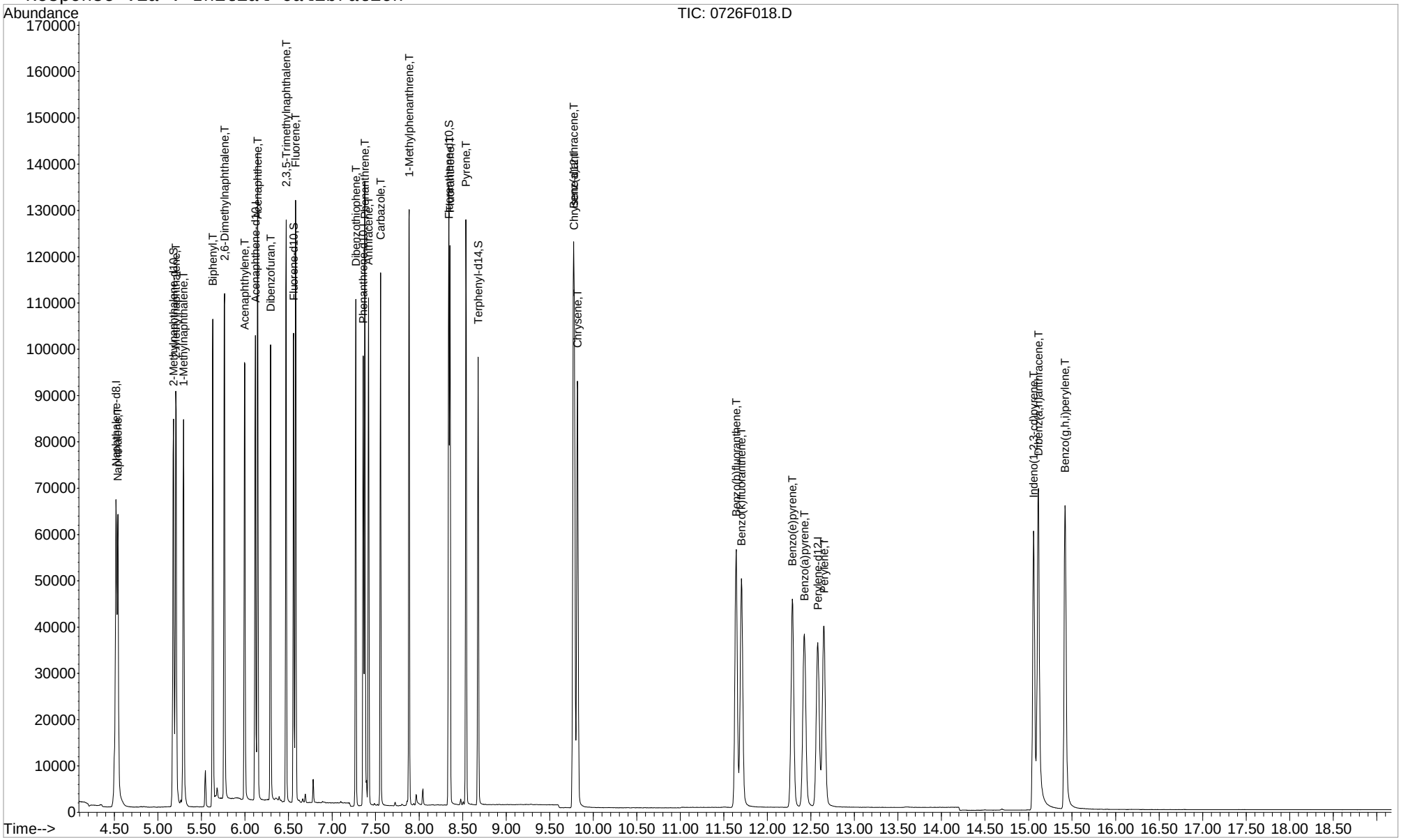
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Naphthalene-d8	4.52	136	61471	200.00	ng/ml	-0.01
12) Acenaphthene-d10	6.12	164	29205	200.00	ng/ml	0.00
22) Phenanthrene-d10	7.36	188	56301	200.00	ng/ml	0.00
34) Chrysene-d12	9.79	240	52162	200.00	ng/ml	-0.01
44) Perylene-d12	12.58	264	57562	200.00	ng/ml	-0.01
System Monitoring Compounds						
3) 2-Methylnaphthalene-d10	5.18	152	35638	185.95	ng/ml	-0.01
Spiked Amount 200.000			Recovery = 92.97%			
17) Fluorene-d10	6.56	176	35284	203.66	ng/ml	0.00
Spiked Amount 200.000			Recovery = 101.83%			
33) Fluoranthene-d10	8.34	212	69454	214.15	ng/ml	0.00
Spiked Amount 200.000			Recovery = 107.08%			
37) Terphenyl-d14	8.68	244	54765	216.46	ng/ml	0.00
Spiked Amount 200.000			Recovery = 108.23%			
Target Compounds						Qvalue
2) Naphthalene	4.54	128	61571	214.14	ng/ml	100
4) 2-Methylnaphthalene	5.21	142	39635	200.32	ng/ml	94
5) 1-Methylnaphthalene	5.29	142	36038	195.48	ng/ml	97
6) Biphenyl	5.63	154	58324	198.11	ng/ml	98
7) 2,6-Dimethylnaphthalene	5.76	156	34439	190.94	ng/ml	97
13) Acenaphthylene	6.00	152	57083	219.31	ng/ml	99
14) Acenaphthene	6.15	154	35452	221.59	ng/ml	96
15) Dibenzofuran	6.29	168	51925	216.56	ng/ml	85
16) 2,3,5-Trimethylnaphthalene	6.47	170	33732	217.45	ng/ml	93
18) Fluorene	6.58	166	41301	224.04	ng/ml	96
23) Dibenzothiophene	7.27	184	60588	214.58	ng/ml	92
24) Phenanthrene	7.38	178	63705	218.24	ng/ml	99
25) Anthracene	7.42	178	56214	196.12	ng/ml	99
26) Carbazole	7.56	167	58048	222.50	ng/ml	100
27) 1-Methylphenanthrene	7.89	192	49019	232.27	ng/ml	99
32) Fluoranthene	8.36	202	77458	240.75	ng/ml	96
35) Pyrene	8.54	202	81245	245.82	ng/ml	94
38) Benz(a)anthracene	9.77	228	75804	213.24	ng/ml	98
39) Chrysene	9.82	228	73011	222.92	ng/ml	98
45) Benzo(b)fluoranthene	11.64	252	83182	230.28	ng/ml	99
46) Benzo(k)fluoranthene	11.70	252	79762	228.93	ng/ml	99
47) Benzo(e)pyrene	12.29	252	75819	219.40	ng/ml	99
48) Benzo(a)pyrene	12.43	252	71482	208.24	ng/ml	98
49) Perylene	12.65	252	71104	227.81	ng/ml	98
50) Indeno(1,2,3-cd)pyrene	15.06	276	70379	229.75	ng/ml	99
51) Dibenz(a,h)anthracene	15.11	278	72168	231.45	ng/ml	98
52) Benzo(g,h,i)perylene	15.42	276	80706	233.59	ng/ml	98

(#) = qualifier out of range (m) = manual integration

1st 07/28/21
2nd 07/29/21

Data File : J:\MS14\DATA\072621\0726F018.D Vial: 8
Acq On : 26 Jul 2021 8:44 pm Operator: E.Bruno
Sample : SIM-PAH @ .2ug/mL | SVM66-41F Inst : MS14
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 26 21:21 2021 Quant Results File: 072621ALK.RES

Method : J:\MS14\METHODS\SIM\072621ALK.M (RTE Integrator)
Title : PAHS and ALKYLATED HOMOLOGS
Last Update : Mon Jul 26 23:01:28 2021
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

1st 07/28/21
2nd 07/29/21

Data File : J:\MS14\DATA\072621\0726F019.D Vial: 9
Acq On : 26 Jul 2021 9:11 pm Operator: E.Bruno
Sample : SIM-PAH @ .4ug/mL | SVM66-41G Inst : MS14
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 26 21:49:07 2021 Quant Results File: 072621ALK.RES

Quant Method : J:\MS14\METHODS\SIM\072621ALK.M (RTE Integrator)
Title : PAHS and ALKYLATED HOMOLOGS
Last Update : Tue Jul 06 13:28:06 2021
Response via : Initial Calibration
DataAcq Meth : A_PAHAT05

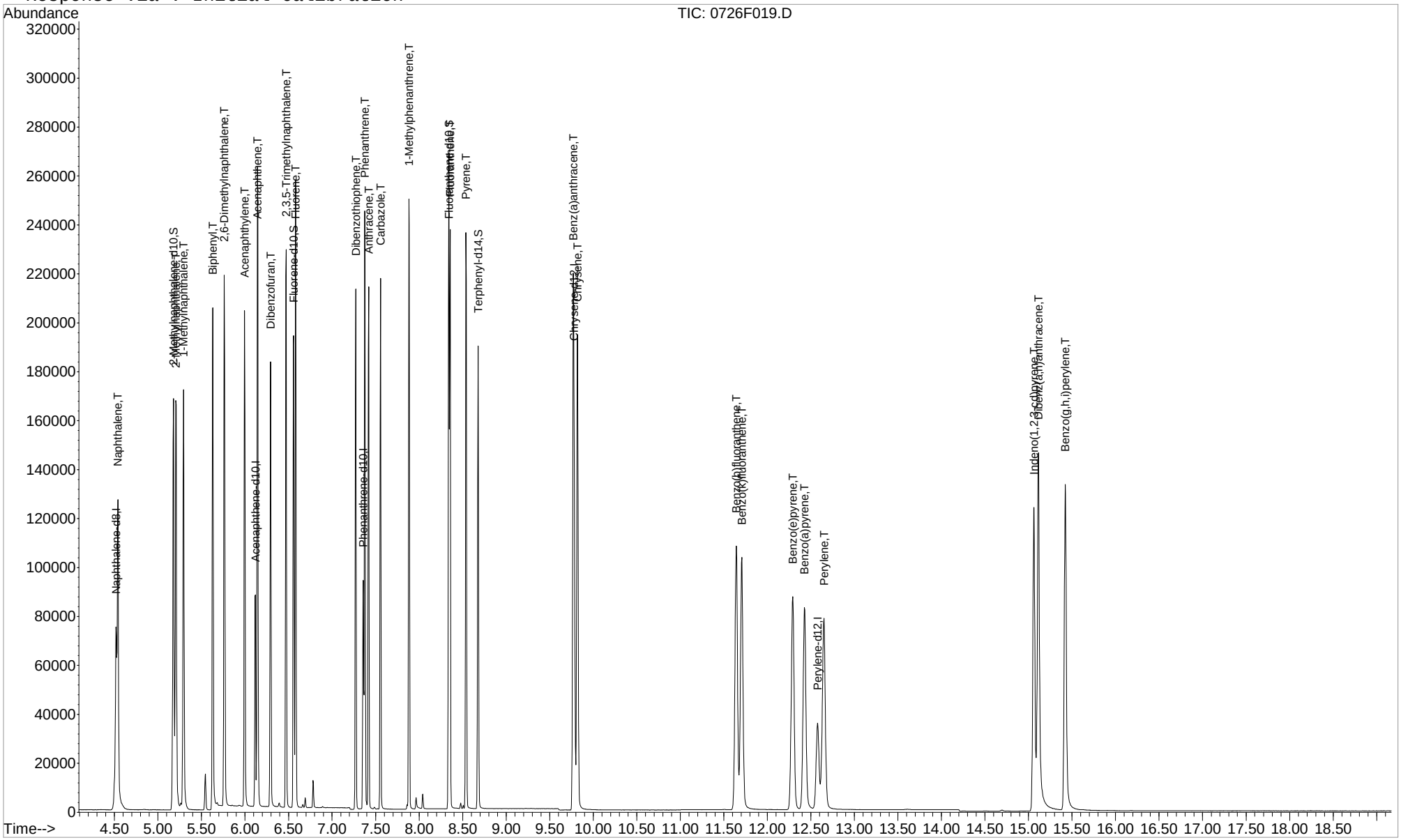
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Naphthalene-d8	4.52	136	60400	200.00	ng/ml	-0.01
12) Acenaphthene-d10	6.12	164	27977	200.00	ng/ml	0.00
22) Phenanthrene-d10	7.36	188	53596	200.00	ng/ml	0.00
34) Chrysene-d12	9.79	240	50543	200.00	ng/ml	-0.01
44) Perylene-d12	12.58	264	55362	200.00	ng/ml	-0.02
System Monitoring Compounds						
3) 2-Methylnaphthalene-d10	5.18	152	69499	369.06	ng/ml	-0.01
Spiked Amount 200.000			Recovery =	184.53%		
17) Fluorene-d10	6.56	176	69015	415.85	ng/ml	0.00
Spiked Amount 200.000			Recovery =	207.93%		
33) Fluoranthene-d10	8.34	212	137024	443.81	ng/ml	0.00
Spiked Amount 200.000			Recovery =	221.91%		
37) Terphenyl-d14	8.68	244	109330	445.98	ng/ml	0.00
Spiked Amount 200.000			Recovery =	222.99%		
Target Compounds						Qvalue
2) Naphthalene	4.54	128	122835	434.79	ng/ml	100
4) 2-Methylnaphthalene	5.21	142	75738	389.59	ng/ml	96
5) 1-Methylnaphthalene	5.29	142	69288	382.49	ng/ml	96
6) Biphenyl	5.63	154	113201	391.33	ng/ml	98
7) 2,6-Dimethylnaphthalene	5.76	156	67165	378.98	ng/ml	92
13) Acenaphthylene	5.99	152	112865	452.65	ng/ml	98
14) Acenaphthene	6.14	154	69366	452.59	ng/ml	92
15) Dibenzofuran	6.29	168	101636	442.50	ng/ml	88
16) 2,3,5-Trimethylnaphthalene	6.47	170	66387	446.73	ng/ml	96
18) Fluorene	6.58	166	80338	454.93	ng/ml	99
23) Dibenzothiophene	7.27	184	119921	446.15	ng/ml	94
24) Phenanthrene	7.38	178	124493	448.00	ng/ml	99
25) Anthracene	7.42	178	107908	395.46	ng/ml	99
26) Carbazole	7.56	167	113604	457.43	ng/ml	99
27) 1-Methylphenanthrene	7.89	192	95462	475.16	ng/ml	98
32) Fluoranthene	8.36	202	149226	487.22	ng/ml	97
35) Pyrene	8.54	202	159009	496.53	ng/ml	92
38) Benz(a)anthracene	9.77	228	152298	442.14	ng/ml	98
39) Chrysene	9.82	228	144593	455.63	ng/ml	98
45) Benzo(b)fluoranthene	11.64	252	169510	487.91	ng/ml	99
46) Benzo(k)fluoranthene	11.71	252	158054	471.67	ng/ml	99
47) Benzo(e)pyrene	12.29	252	152077	457.55	ng/ml	99
48) Benzo(a)pyrene	12.43	252	144247	436.91	ng/ml	99
49) Perylene	12.65	252	141704	472.04	ng/ml	99
50) Indeno(1,2,3-cd)pyrene	15.06	276	142844	484.83	ng/ml	99
51) Dibenz(a,h)anthracene	15.11	278	145945	486.66	ng/ml	99
52) Benzo(g,h,i)perylene	15.42	276	160491	482.98	ng/ml	98

(#) = qualifier out of range (m) = manual integration

1st 07/28/21
2nd 07/29/21

Data File : J:\MS14\DATA\072621\0726F019.D Vial: 9
Acq On : 26 Jul 2021 9:11 pm Operator: E.Bruno
Sample : SIM-PAH @ .4ug/mL | SVM66-41G Inst : MS14
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 26 21:49 2021 Quant Results File: 072621ALK.RES

Method : J:\MS14\METHODS\SIM\072621ALK.M (RTE Integrator)
Title : PAHS and ALKYLATED HOMOLOGS
Last Update : Mon Jul 26 23:01:28 2021
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

1st 07/28/21
2nd 07/29/21

Data File : J:\MS14\DATA\072621\0726F020.D Vial: 10
Acq On : 26 Jul 2021 9:37 pm Operator: E.Bruno
Sample : SIM-PAH @ 1.0ug/mL | SVM66-41H Inst : MS14
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 26 21:57:54 2021 Quant Results File: 072621ALK.RES

Quant Method : J:\MS14\METHODS\SIM\072621ALK.M (RTE Integrator)
Title : PAHS and ALKYLATED HOMOLOGS
Last Update : Tue Jul 06 13:28:06 2021
Response via : Initial Calibration
DataAcq Meth : A_PAHAT05

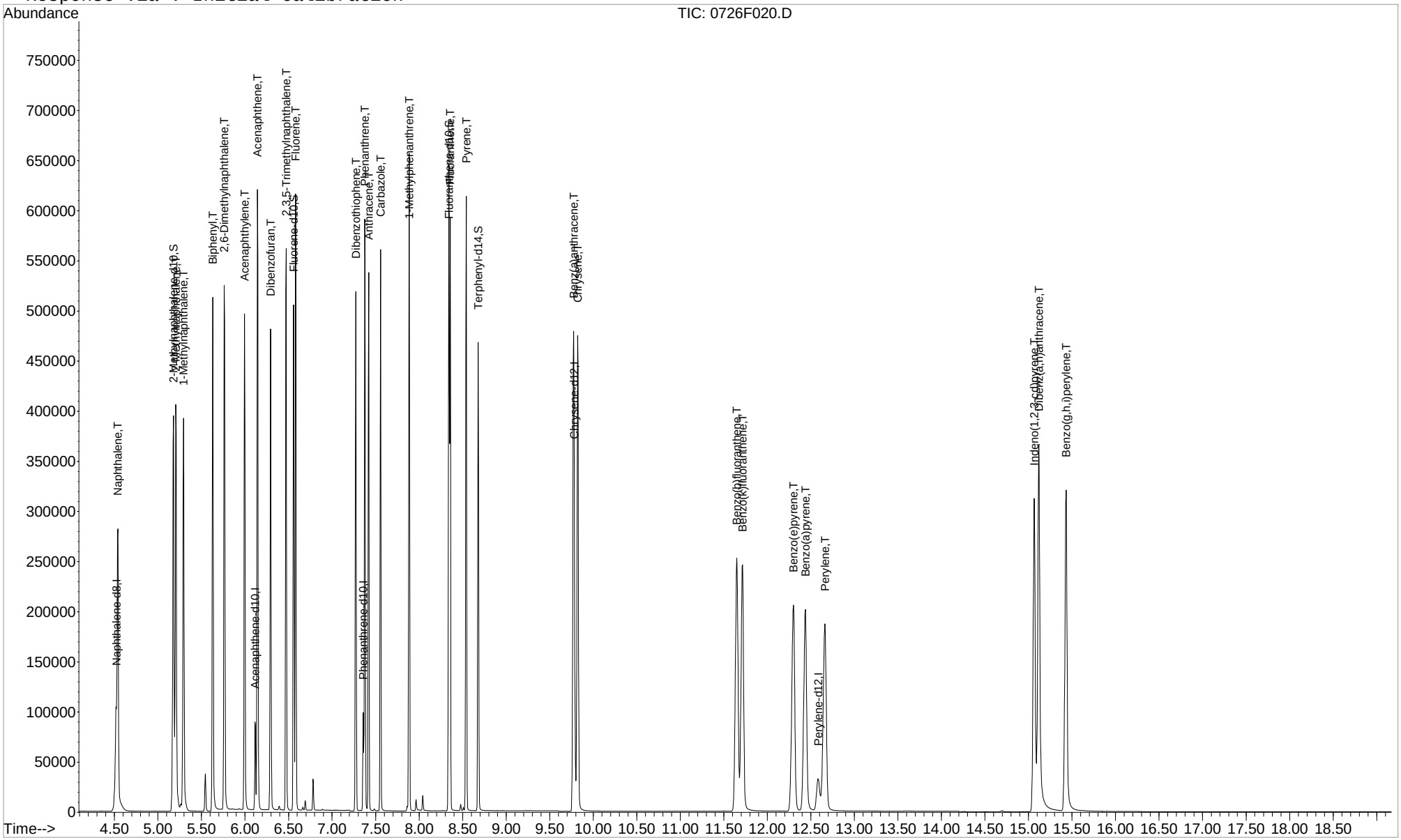
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Naphthalene-d8	4.52	136	61229	200.00	ng/ml	-0.01
12) Acenaphthene-d10	6.12	164	27575	200.00	ng/ml	-0.01
22) Phenanthrene-d10	7.36	188	53019	200.00	ng/ml	0.00
34) Chrysene-d12	9.79	240	49123	200.00	ng/ml	0.00
44) Perylene-d12	12.58	264	55891	200.00	ng/ml	-0.01
System Monitoring Compounds						
3) 2-Methylnaphthalene-d10	5.18	152	167176	875.74	ng/ml	-0.01
Spiked Amount 200.000			Recovery = 437.87%			
17) Fluorene-d10	6.56	176	167827	1025.99	ng/ml	0.00
Spiked Amount 200.000			Recovery = 513.00%			
33) Fluoranthene-d10	8.34	212	332139	1087.49	ng/ml	0.00
Spiked Amount 200.000			Recovery = 543.75%			
37) Terphenyl-d14	8.68	244	268698	1127.76	ng/ml	0.00
Spiked Amount 200.000			Recovery = 563.88%			
Target Compounds						Qvalue
2) Naphthalene	4.54	128	298739	1043.10	ng/ml	100
4) 2-Methylnaphthalene	5.20	142	177402	900.17	ng/ml	95
5) 1-Methylnaphthalene	5.29	142	164707	896.93	ng/ml	96
6) Biphenyl	5.63	154	268544	915.78	ng/ml	99
7) 2,6-Dimethylnaphthalene	5.77	156	162998	907.26	ng/ml	96
13) Acenaphthylene	5.99	152	275322	1120.29	ng/ml	98
14) Acenaphthene	6.14	154	165974	1098.72	ng/ml	92
15) Dibenzofuran	6.29	168	246493	1088.81	ng/ml	91
16) 2,3,5-Trimethylnaphthalene	6.47	170	160977	1099.04	ng/ml	95
18) Fluorene	6.58	166	190910	1096.82	ng/ml	98
23) Dibenzothiophene	7.27	184	292687	1100.75	ng/ml	91
24) Phenanthrene	7.38	178	295030	1073.26	ng/ml	98
25) Anthracene	7.42	178	259340	960.78	ng/ml	99
26) Carbazole	7.56	167	277688	1130.28	ng/ml	99
27) 1-Methylphenanthrene	7.89	192	233186	1173.31	ng/ml	98
32) Fluoranthene	8.36	202	349377	1153.13	ng/ml	100
35) Pyrene	8.54	202	385695	1239.20	ng/ml	98
38) Benz(a)anthracene	9.77	228	377681	1128.15	ng/ml	98
39) Chrysene	9.82	228	347427	1126.42	ng/ml	98
45) Benzo(b)fluoranthene	11.65	252	420907	1200.05	ng/ml	99
46) Benzo(k)fluoranthene	11.71	252	391957	1158.63	ng/ml	99
47) Benzo(e)pyrene	12.30	252	381952	1138.30	ng/ml	98
48) Benzo(a)pyrene	12.44	252	362359	1087.17	ng/ml	99
49) Perylene	12.66	252	356195	1175.31	ng/ml	99
50) Indeno(1,2,3-cd)pyrene	15.07	276	359621	1209.05	ng/ml	98
51) Dibenz(a,h)anthracene	15.12	278	366596	1210.86	ng/ml	98
52) Benzo(g,h,i)perylene	15.43	276	393155	1171.96	ng/ml	97

(#) = qualifier out of range (m) = manual integration

1st 07/28/21
2nd 07/29/21

Data File : J:\MS14\DATA\072621\0726F020.D Vial: 10
Acq On : 26 Jul 2021 9:37 pm Operator: E.Bruno
Sample : SIM-PAH @ 1.0ug/mL | SVM66-41H Inst : MS14
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 26 21:57 2021 Quant Results File: 072621ALK.RES

Method : J:\MS14\METHODS\SIM\072621ALK.M (RTE Integrator)
Title : PAHS and ALKYLATED HOMOLOGS
Last Update : Mon Jul 26 23:01:28 2021
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

1st 07/28/21
2nd 07/29/21

Data File : J:\MS14\DATA\072621\0726F021.D Vial: 11
Acq On : 26 Jul 2021 10:04 pm Operator: E.Bruno
Sample : SIM-PAH @ 1.6ug/mL | SVM66-41I Inst : MS14
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 26 22:34:32 2021 Quant Results File: 072621ALK.RES

Quant Method : J:\MS14\METHODS\SIM\072621ALK.M (RTE Integrator)
Title : PAHS and ALKYLATED HOMOLOGS
Last Update : Tue Jul 06 13:28:06 2021
Response via : Initial Calibration
DataAcq Meth : A_PAHAT05

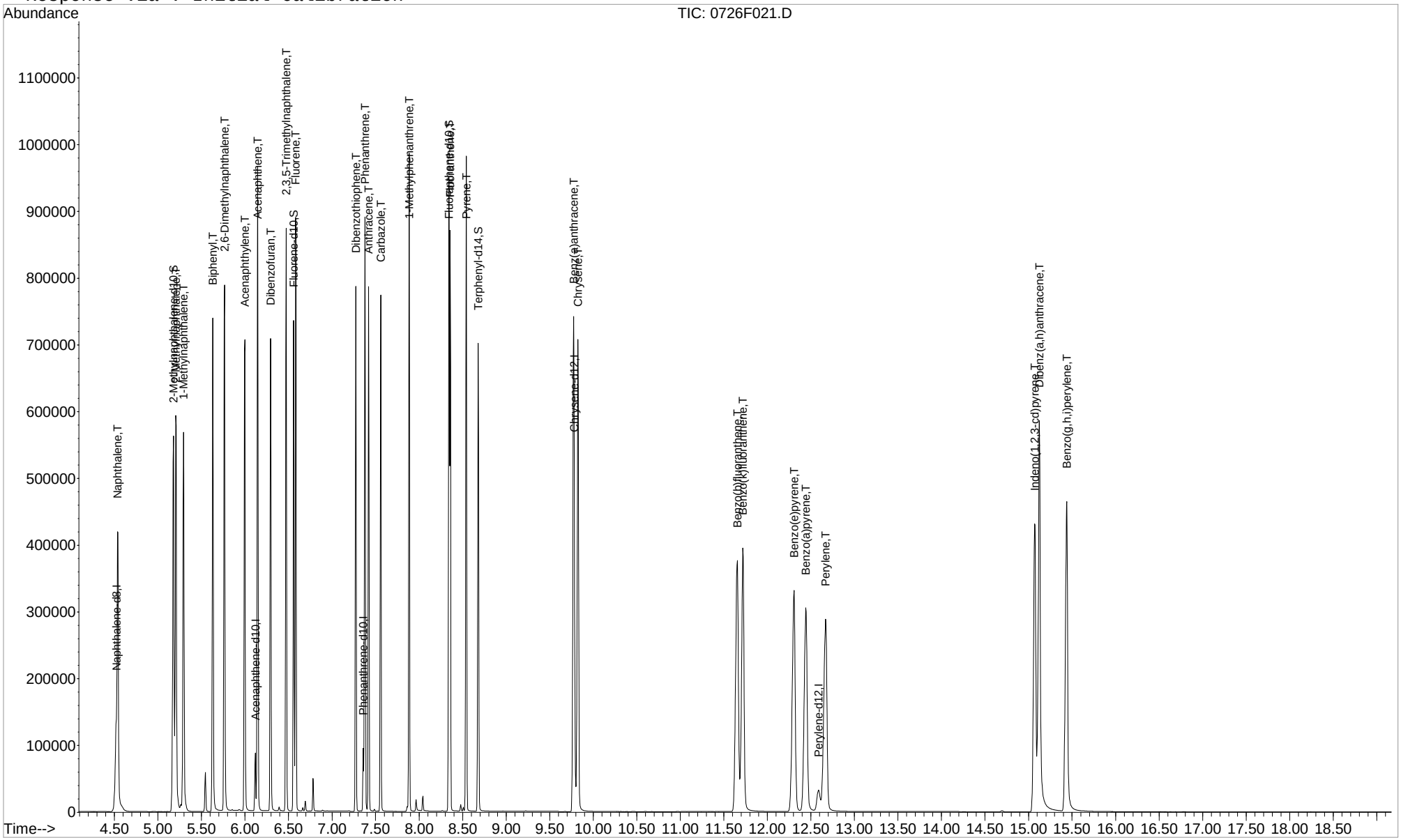
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Naphthalene-d8	4.52	136	58928	200.00	ng/ml	-0.01
12) Acenaphthene-d10	6.12	164	26586	200.00	ng/ml	0.00
22) Phenanthrene-d10	7.36	188	51067	200.00	ng/ml	0.00
34) Chrysene-d12	9.79	240	47012	200.00	ng/ml	0.00
44) Perylene-d12	12.59	264	55124	200.00	ng/ml	0.00
System Monitoring Compounds						
3) 2-Methylnaphthalene-d10	5.18	152	251072	1366.57	ng/ml	-0.01
Spiked Amount 200.000			Recovery = 683.28%			
17) Fluorene-d10	6.56	176	254634	1614.58	ng/ml	0.00
Spiked Amount 200.000			Recovery = 807.29%			
33) Fluoranthene-d10	8.34	212	507518	1725.23	ng/ml	0.00
Spiked Amount 200.000			Recovery = 862.62%			
37) Terphenyl-d14	8.68	244	414695	1818.69	ng/ml	-0.01
Spiked Amount 200.000			Recovery = 909.35%			
Target Compounds						Qvalue
2) Naphthalene	4.54	128	451068	1636.48	ng/ml	99
4) 2-Methylnaphthalene	5.21	142	266213	1403.57	ng/ml	98
5) 1-Methylnaphthalene	5.29	142	249427	1411.32	ng/ml	97
6) Biphenyl	5.63	154	406478	1440.28	ng/ml	99
7) 2,6-Dimethylnaphthalene	5.76	156	246030	1422.90	ng/ml	99
13) Acenaphthylene	6.00	152	414587	1749.71	ng/ml	98
14) Acenaphthene	6.15	154	252540	1733.97	ng/ml	96
15) Dibenzofuran	6.29	168	373946	1713.25	ng/ml	79
16) 2,3,5-Trimethylnaphthalene	6.47	170	244579	1731.94	ng/ml	92
18) Fluorene	6.58	166	286984	1710.11	ng/ml	96
23) Dibenzothiophene	7.27	184	443496	1731.67	ng/ml	90
24) Phenanthrene	7.38	178	447585	1690.45	ng/ml	98
25) Anthracene	7.42	178	392217	1508.59	ng/ml	99
26) Carbazole	7.56	167	418938	1770.39	ng/ml	99
27) 1-Methylphenanthrene	7.89	192	351382	1835.61	ng/ml	98
32) Fluoranthene	8.36	202	527718	1808.32	ng/ml	96
35) Pyrene	8.54	202	587437	1972.12	ng/ml	97
38) Benz(a)anthracene	9.77	228	580931	1813.18	ng/ml	97
39) Chrysene	9.82	228	533111	1806.06	ng/ml	97
45) Benzo(b)fluoranthene	11.66	252	648220	1873.86	ng/ml	99
46) Benzo(k)fluoranthene	11.72	252	602796	1806.67	ng/ml	98
47) Benzo(e)pyrene	12.31	252	591084	1786.07	ng/ml	98
48) Benzo(a)pyrene	12.44	252	564216	1716.34	ng/ml	99
49) Perylene	12.67	252	553800	1852.75	ng/ml	99
50) Indeno(1,2,3-cd)pyrene	15.07	276	561537	1914.17	ng/ml	97
51) Dibenz(a,h)anthracene	15.13	278	568704	1904.55	ng/ml	98
52) Benzo(g,h,i)perylene	15.44	276	603454	1823.87	ng/ml	98

(#) = qualifier out of range (m) = manual integration

1st 07/28/21
2nd 07/29/21

Data File : J:\MS14\DATA\072621\0726F021.D Vial: 11
Acq On : 26 Jul 2021 10:04 pm Operator: E.Bruno
Sample : SIM-PAH @ 1.6ug/mL | SVM66-41I Inst : MS14
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 26 22:34 2021 Quant Results File: 072621ALK.RES

Method : J:\MS14\METHODS\SIM\072621ALK.M (RTE Integrator)
Title : PAHS and ALKYLATED HOMOLOGS
Last Update : Mon Jul 26 23:01:28 2021
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

1st 07/28/21
2nd 07/29/21

Data File : J:\MS14\DATA\072621\0726F022.D Vial: 12
Acq On : 26 Jul 2021 10:31 pm Operator: E.Bruno
Sample : SIM-PAH @ 2.0ug/mL | SVM66-41J Inst : MS14
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 26 22:54:41 2021 Quant Results File: 072621ALK.RES

Quant Method : J:\MS14\METHODS\SIM\072621ALK.M (RTE Integrator)
Title : PAHS and ALKYLATED HOMOLOGS
Last Update : Tue Jul 06 13:28:06 2021
Response via : Initial Calibration
DataAcq Meth : A_PAHAT05

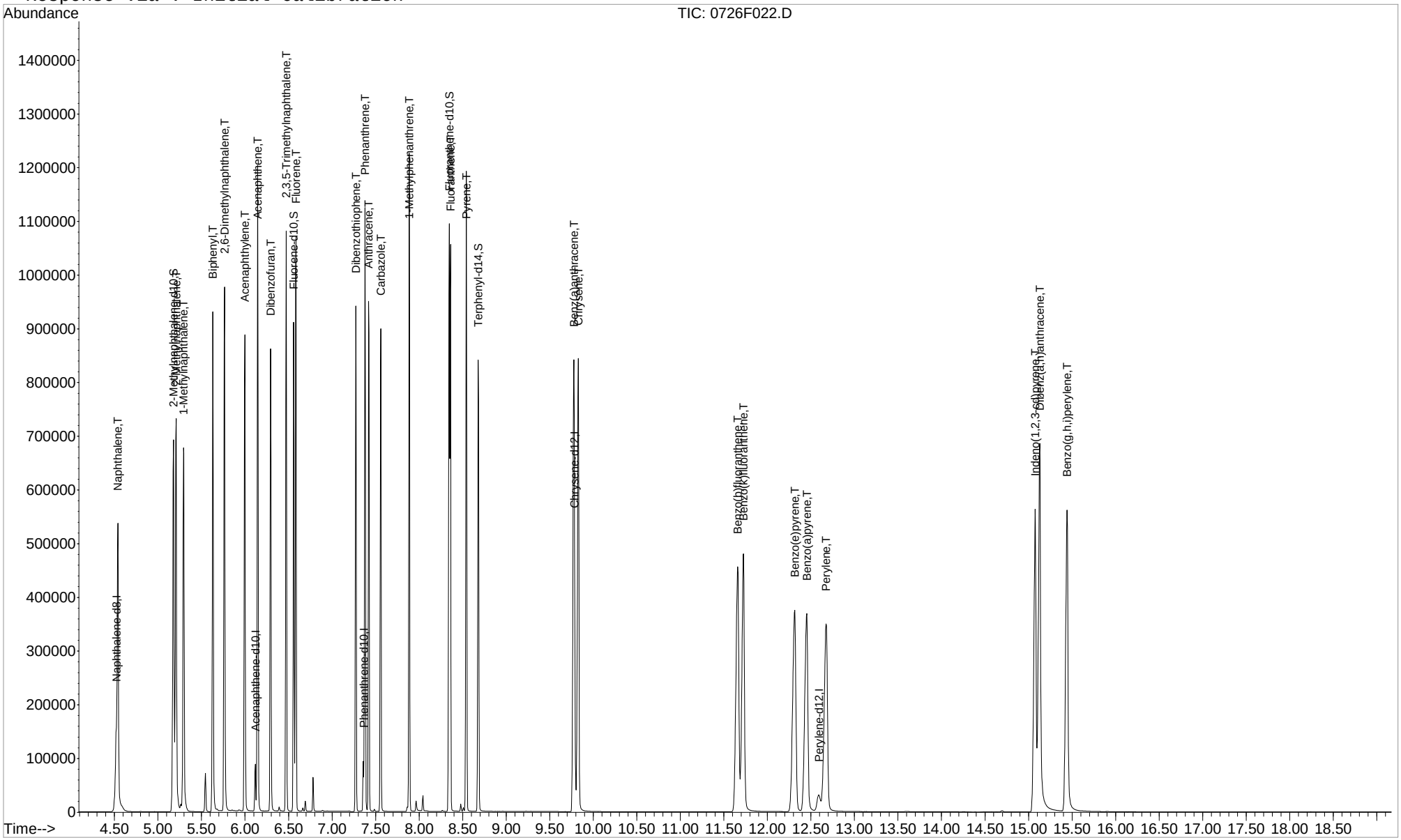
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Naphthalene-d8	4.52	136	58476	200.00	ng/ml	-0.01
12) Acenaphthene-d10	6.12	164	26688	200.00	ng/ml	0.00
22) Phenanthrene-d10	7.36	188	52109	200.00	ng/ml	0.00
34) Chrysene-d12	9.79	240	47593	200.00	ng/ml	0.00
44) Perylene-d12	12.59	264	56494	200.00	ng/ml	0.00
System Monitoring Compounds						
3) 2-Methylnaphthalene-d10	5.18	152	306852	1683.09	ng/ml	-0.01
Spiked Amount 200.000			Recovery = 841.54%			
17) Fluorene-d10	6.56	176	316596	1999.79	ng/ml	0.00
Spiked Amount 200.000			Recovery = 999.90%			
33) Fluoranthene-d10	8.35	212	632187	2106.05	ng/ml	0.00
Spiked Amount 200.000			Recovery = 1053.03%			
37) Terphenyl-d14	8.68	244	519464	2250.35	ng/ml	0.00
Spiked Amount 200.000			Recovery = 1125.18%			
Target Compounds						Qvalue
2) Naphthalene	4.54	128	550026	2010.93	ng/ml	100
4) 2-Methylnaphthalene	5.21	142	325296	1728.33	ng/ml	96
5) 1-Methylnaphthalene	5.30	142	306661	1748.57	ng/ml	99
6) Biphenyl	5.63	154	493385	1761.73	ng/ml	99
7) 2,6-Dimethylnaphthalene	5.76	156	305130	1778.34	ng/ml	98
13) Acenaphthylene	6.00	152	510963	2148.21	ng/ml	98
14) Acenaphthene	6.15	154	313845	2146.66	ng/ml	97
15) Dibenzofuran	6.29	168	482578	2202.50	ng/ml	76
16) 2,3,5-Trimethylnaphthalene	6.47	170	301494	2126.81	ng/ml	87
18) Fluorene	6.59	166	357069	2119.61	ng/ml	99
23) Dibenzothiophene	7.27	184	545083	2085.77	ng/ml	87
24) Phenanthrene	7.38	178	552544	2045.14	ng/ml	98
25) Anthracene	7.42	178	485030	1828.27	ng/ml	98
26) Carbazole	7.56	167	519325	2150.73	ng/ml	99
27) 1-Methylphenanthrene	7.89	192	437547	2240.03	ng/ml	97
32) Fluoranthene	8.36	202	655445	2201.09	ng/ml	97
35) Pyrene	8.54	202	730143	2421.28	ng/ml	94
38) Benz(a)anthracene	9.78	228	720243	2220.55	ng/ml	97
39) Chrysene	9.83	228	664975	2225.28	ng/ml	97
45) Benzo(b)fluoranthene	11.66	252	810716	2286.77	ng/ml	99
46) Benzo(k)fluoranthene	11.73	252	750970	2196.19	ng/ml	98
47) Benzo(e)pyrene	12.31	252	739839	2181.35	ng/ml	98
48) Benzo(a)pyrene	12.45	252	705664	2094.57	ng/ml	98
49) Perylene	12.67	252	695182	2269.35	ng/ml	99
50) Indeno(1,2,3-cd)pyrene	15.08	276	706984	2351.53	ng/ml	97
51) Dibenz(a,h)anthracene	15.13	278	713395	2331.17	ng/ml	97
52) Benzo(g,h,i)perylene	15.44	276	756382	2230.64	ng/ml	97

(#) = qualifier out of range (m) = manual integration

1st 07/28/21
2nd 07/29/21

Data File : J:\MS14\DATA\072621\0726F022.D Vial: 12
Acq On : 26 Jul 2021 10:31 pm Operator: E.Bruno
Sample : SIM-PAH @ 2.0ug/mL | SVM66-41J Inst : MS14
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 26 22:54 2021 Quant Results File: 072621ALK.RES

Method : J:\MS14\METHODS\SIM\072621ALK.M (RTE Integrator)
Title : PAHS and ALKYLATED HOMOLOGS
Last Update : Mon Jul 26 23:01:28 2021
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

1st 07/28/21
2nd 07/29/21

Data File : J:\MS14\DATA\072621\0726F023.D Vial: 13
Acq On : 26 Jul 2021 10:58 pm Operator: E.Bruno
Sample : SIM-PAH ICV @ 0.4ug/mL | SVM66-12C Inst : MS14
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 27 07:35:01 2021 Quant Results File: 072621ALK.RES

Quant Method : J:\MS14\METHODS\SIM\072621ALK.M (RTE Integrator)
Title : PAHS and ALKYLATED HOMOLOGS
Last Update : Mon Jul 26 23:01:28 2021
Response via : Initial Calibration
DataAcq Meth : A_PAHAT05

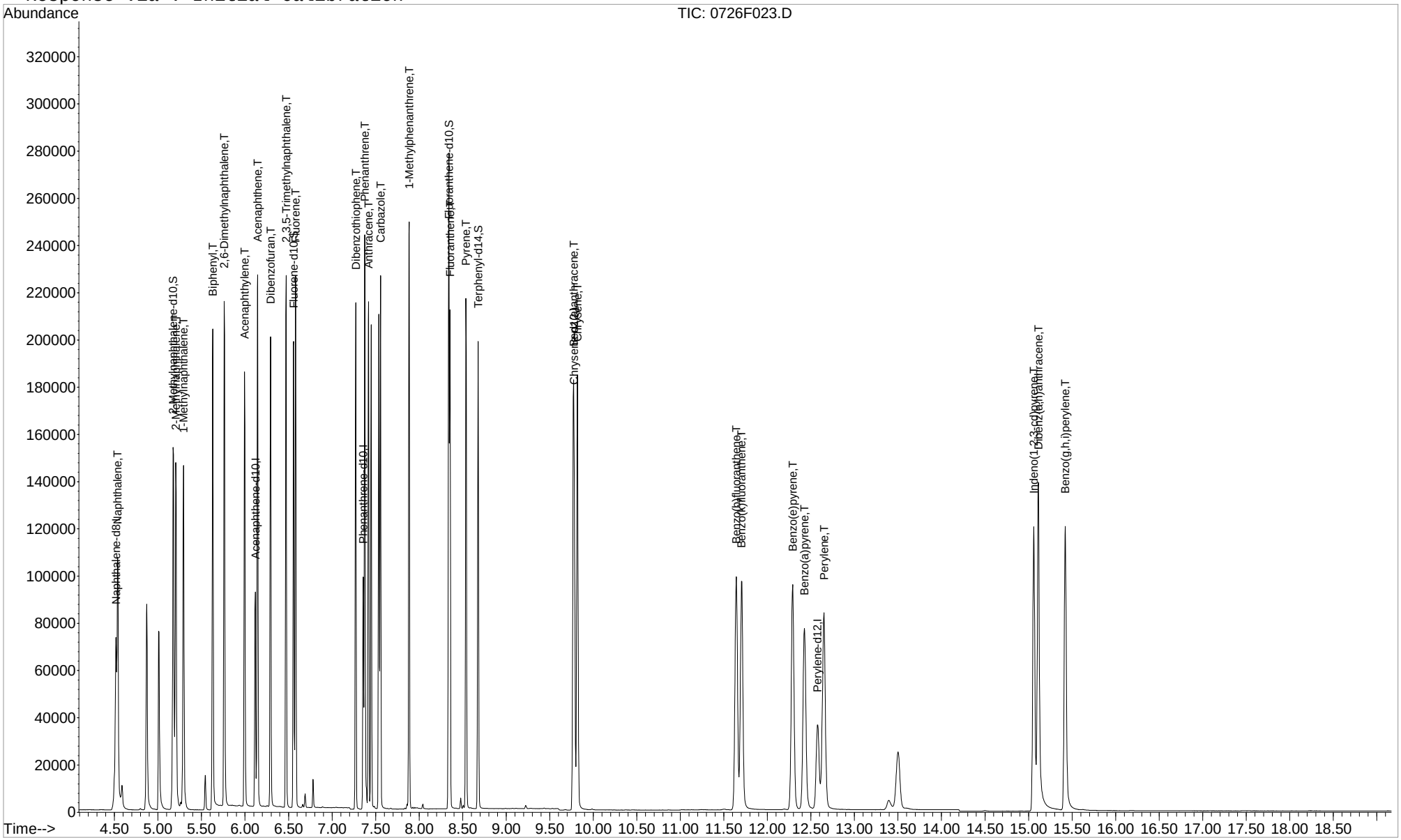
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Naphthalene-d8	4.52	136	58505	200.00	ng/ml	-0.01
12) Acenaphthene-d10	6.12	164	28225	200.00	ng/ml	0.00
22) Phenanthrene-d10	7.36	188	55206	200.00	ng/ml	0.00
34) Chrysene-d12	9.78	240	52172	200.00	ng/ml	-0.01
44) Perylene-d12	12.58	264	57895	200.00	ng/ml	-0.01
System Monitoring Compounds						
3) 2-Methylnaphthalene-d10	5.18	152	67306	396.83	ng/ml	-0.01
Spiked Amount 200.000			Recovery =	198.41%		
17) Fluorene-d10	6.56	176	70963	416.90	ng/ml	0.00
Spiked Amount 200.000			Recovery =	208.45%		
33) Fluoranthene-d10	8.34	212	142153	429.78	ng/ml	0.00
Spiked Amount 200.000			Recovery =	214.89%		
37) Terphenyl-d14	8.68	244	112612	403.93	ng/ml	-0.01
Spiked Amount 200.000			Recovery =	201.97%		
Target Compounds						Qvalue
2) Naphthalene	4.54	128	112848	385.46	ng/ml	100
4) 2-Methylnaphthalene	5.21	142	67031	356.21	ng/ml	96
5) 1-Methylnaphthalene	5.29	142	62070	356.63	ng/ml	97
6) Biphenyl	5.63	154	110108	387.23	ng/ml	99
7) 2,6-Dimethylnaphthalene	5.76	156	66421	394.16	ng/ml	98
13) Acenaphthylene	5.99	152	106050	389.63	ng/ml	99
14) Acenaphthene	6.15	154	60681	353.71	ng/ml	95
15) Dibenzofuran	6.29	168	103449	412.10	ng/ml	88
16) 2,3,5-Trimethylnaphthalene	6.47	170	64978	404.51	ng/ml	97
18) Fluorene	6.58	166	73858	372.01	ng/ml	97
23) Dibenzothiophene	7.27	184	119684	407.54	ng/ml	95
24) Phenanthrene	7.37	178	114300	362.34	ng/ml	99
25) Anthracene	7.42	178	113813	428.56	ng/ml	99
26) Carbazole	7.56	167	110577	402.58	ng/ml	99
27) 1-Methylphenanthrene	7.89	192	97794	422.02	ng/ml	98
32) Fluoranthene	8.36	202	137650	378.50	ng/ml	97
35) Pyrene	8.54	202	144042	355.45	ng/ml	92
38) Benz(a)anthracene	9.77	228	125392	323.02	ng/ml	98
39) Chrysene	9.82	228	133044	365.02	ng/ml	98
45) Benzo(b)fluoranthene	11.64	252	160036	400.40	ng/ml	99
46) Benzo(k)fluoranthene	11.71	252	151047	404.35	ng/ml	99
47) Benzo(e)pyrene	12.29	252	156274	415.88	ng/ml	99
48) Benzo(a)pyrene	12.42	252	139434	398.32	ng/ml	99
49) Perylene	12.65	252	149162	432.60	ng/ml	99
50) Indeno(1,2,3-cd)pyrene	15.06	276	140402	422.10	ng/ml	99
51) Dibenz(a,h)anthracene	15.11	278	132107	384.44	ng/ml	99
52) Benzo(g,h,i)perylene	15.42	276	149222	376.48	ng/ml	99

(#) = qualifier out of range (m) = manual integration

1st 07/28/21
2nd 07/29/21

Data File : J:\MS14\DATA\072621\0726F023.D Vial: 13
Acq On : 26 Jul 2021 10:58 pm Operator: E.Bruno
Sample : SIM-PAH ICV @ 0.4ug/mL | SVM66-12C Inst : MS14
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 27 7:35 2021 Quant Results File: 072621ALK.RES

Method : J:\MS14\METHODS\SIM\072621ALK.M (RTE Integrator)
Title : PAHS and ALKYLATED HOMOLOGS
Last Update : Mon Jul 26 23:01:28 2021
Response via : Initial Calibration



Injection Log

Directory: J:\ms14\data\082421

Line	Vial	FileName	Multiplier	SampleName	Misc Info	Injected
1	1	0824f001.d	1.	DFTPP @ 10ug/mL SVM66-47A		24 Aug 2021 14:15
2	2	0824f002.d	1.	SIM-PAH @ .4ug/mL | SVM66-54K		24 Aug 2021 14:41
3	3	0824f003.d	1.	KQ2115593-06 MB		24 Aug 2021 15:11
4	50	0824f004.d	1.	AP SURR SVM66-53B 100X		24 Aug 2021 15:37
5	4	0824f005.d	1.	KQ2115593-05 LCS		24 Aug 2021 16:04
6	5	0824f006.d	1.	K2109020-002		24 Aug 2021 16:31
7	6	0824f007.d	1.	KQ2115593-03 K2109020-002 MS	NR	24 Aug 2021 16:58
8	7	0824f008.d	1.	KQ2115593-04 K2109020-002 ...		24 Aug 2021 17:24
9	10	0824f009.d	1.	K2109020-022		24 Aug 2021 18:20
10	11	0824f010.d	1.	K2109020-023		24 Aug 2021 18:47
11	12	0824f011.d	1.	K2109142-002		24 Aug 2021 19:14
12	13	0824f012.d	1.	K2108793-011 5X		24 Aug 2021 19:40
13	14	0824f013.d	1.	K2109020-005 10X		24 Aug 2021 20:07
14	15	0824f014.d	1.	K2109020-003 20X		24 Aug 2021 20:34
15	16	0824f015.d	1.	K2109330-003		24 Aug 2021 21:01
16	17	0824f016.d	1.	K2109020-002 20X		24 Aug 2021 21:27
17	18	0824f017.d	1.	KQ2115593-03 K2109020-0...		24 Aug 2021 21:54
18	19	0824f018.d	1.	KQ2115593-04 K2109020-0...		24 Aug 2021 22:21
19	20	0824f019.d	1.	K2109020-020 20X		24 Aug 2021 22:47
20	21	0824f020.d	1.	K2109020-021 2X		24 Aug 2021 23:14
21	22	0824f021.d	1.	K2109020-005 004 50X	8/26/21 ∞	24 Aug 2021 23:41
22	23	0824f022.d	1.	K2109066-009 50X		25 Aug 2021 00:08
23	24	0824f023.d	1.	K2109386-001 100X		25 Aug 2021 00:35
24	25	0824f024.d	1.	K2109386-002 100X		25 Aug 2021 01:01

KC2100398

736775

9/9/21

9/15/21

DILUTION LOG MS 14

Date: 8/24/21 Prepared by: CC Solvent Lot #: PCM 220525

LAB ID.	ALIQUOT	FINAL VOLUME	DILUTION FACTOR	COMMENTS
K2109066-009	20ul	1.0	50X ✓	9/5/21
K2109020-004	"	"	" ✓	
K2109020-002	50ul		20X ✓	
-002MS	"		" ✓	
-002MSD	"		" ✓	
-020	"		" ✓	
-021	500ul	1	2X ✓	
K2109786-001	10ul		100X ✓	
-002	"		100X ✓	

Injection Log

Directory: J:\MS14\DATA\081321

Line	Vial	FileName	Multiplier	SampleName	Misc Info	Injected
1	1	0813f001.d	1.	DFTPP @ 10ug/mL SVM65-91F		13 Aug 2021 10:31
2	2	0813f002.d	1.	SIM-PAH @ .4ug/mL | SVM66-43B		13 Aug 2021 10:58
3	3	0813f003.d	1.	KQ2115373-03 MB		13 Aug 2021 11:24
4	4	0813f004.d	1.	KQ2115373-01 LCS		13 Aug 2021 11:51
5	5	0813f005.d	1.	KQ2115373-02 DLCS		13 Aug 2021 12:18
6	6	0813f006.d	1.	K2109277-001 Need dil		13 Aug 2021 12:45
7	7	0813f007.d	1.	K2109277-002		13 Aug 2021 13:11
8	8	0813f008.d	1.	K2109277-003		13 Aug 2021 13:38
9	9	0813f009.d	1.	K2109277-004 Need dil		13 Aug 2021 14:05
10	10	0813f010.d	1.	K2109277-005 Need dil		13 Aug 2021 14:31
11	11	0813f011.d	1.	K2109277-006		13 Aug 2021 14:58
12	12	0813f012.d	1.	K2109277-007 Need dil		13 Aug 2021 15:25
13	13	0813f013.d	1.	K2109277-008		13 Aug 2021 15:52
14	14	0813f014.d	1.	K2109277-009		13 Aug 2021 16:19
15	15	0813f015.d	1.	K2109142-001		13 Aug 2021 16:46

Run # 735140

CAL: KC2100398

8-17-21 eb

Injection Log

Directory: J:\MS14\DATA\081821

Line	Vial	FileName	Multiplier	SampleName	Misc Info	Injected
1	1	0818f001.d	1.	DFTPP @ 10ug/mL SVM65-91F		18 Aug 2021 08:36
2	2	0818f002.d	1.	SIM-PAH @ .4ug/mL | SVM66-43B		18 Aug 2021 09:02
3	3	0818f003.d	1.	IB		18 Aug 2021 09:28
4	4	0818f004.d	1.	K2109277-001 50X		18 Aug 2021 09:54
5	5	0818f005.d	1.	K2109277-004 10X		18 Aug 2021 10:21
6	6	0818f006.d	1.	K2109277-005 5X		18 Aug 2021 10:47
7	7	0818f007.d	1.	K2109277-007 20X		18 Aug 2021 11:13
8	8	0818f008.d	1.	K2108702-002 5X		18 Aug 2021 11:39
9	9	0818f009.d	1.	K2108702-004 20X		18 Aug 2021 12:05
10	10	0818f010.d	1.	K2108793-008 5X		18 Aug 2021 12:30
11	11	0818f011.d	1.	K2108793-009 5X		18 Aug 2021 12:55
12	12	0818f012.d	1.	K2108793-010 5X		18 Aug 2021 13:20
13	1	0818f013.d	1.	DFTPP @ 10ug/mL SVM65-91F		18 Aug 2021 13:46
14	2	0818f014.d	1.	SIM-PAH @ .4ug/mL | SVM66-43B		18 Aug 2021 14:11
15	13	0818f015.d	1.	KQ2114952-04 MB		18 Aug 2021 14:38
16	14	0818f016.d	1.	KQ2114952-03 LCS		18 Aug 2021 15:03
17	15	0818f017.d	1.	KQ2114952-01_K2109066-004MS 5X	NR	18 Aug 2021 15:29
18	16	0818f018.d	1.	KQ2114952-02_K2109066-004DM...		18 Aug 2021 15:55
19	17	0818f019.d	1.	K2109066-002		18 Aug 2021 16:22
20	18	0818f020.d	1.	K2109066-003		18 Aug 2021 16:48

Run # 735538

KC2100398

8-18-21eb

DILUTION LOG MS 14

Date: 8-18-21 Prepared by: EBruno Solvent Lot #: 277575

LAB ID.	µL ALIQUOT	µL FINAL VOLUME	DILUTION FACTOR	COMMENTS
K2108702-2	200	1000	5x	8/19/21
-4	50	1000	20 x	
K2108793-8	200	1000	5x	
-9	200	1000	5x	
-10	200	1000	5x	
K2109277-1	20	1000	50 x	
4	100	1000	10x	
5	200	1000	5x	
7	50	1000	20 x	

R:\SVM\DILUTION LOG.DOC

Per and Polyfluoroalkyl Substances (PFAS) by LC/MS/MS

ALS Environmental—Kelso Laboratory
1317 South 13th Avenue, Kelso, WA 98626
Phone (360)577-7222 Fax (360)636-1068
www.alsglobal.com

Preparation Information Benchsheet

Prep Run#: 385310
Team: Organic LC/ASERVICE
Number of Copies to make: 6

Prep WorkFlow: OLC_PFAS_SPE_L
Prep Method: ALS SOP

Status: Prepped
Prep Date/Time: 8/18/21 09:55

#	Lab Code	Client ID	B#	Method /Test	pH	Matrix	Amt. Ext.	Final Vol	Sample Description
1	K2109002-021	JT7 6	.01	PFC/537M/PFAS		Water	220.0000mL	8.00mL	
2	K2109099-001	2108-066-1	.01	PFC/537M/PFAS		Water	310.0000mL	8.00mL	
3	K2109099-002	2108-066-2	.01	PFC/537M/PFAS		Water	300.0000mL	8.00mL	
4	K2109099-003	2108-066-3	.01	PFC/537M/PFAS		Water	315.0000mL	8.00mL	
5	K2109099-004	2108-066-4	.01	PFC/537M/PFAS		Water	305.0000mL	8.00mL	
6	K2109099-005	2108-066-5	.01	PFC/537M/PFAS		Water	270.0000mL	8.00mL	
7	K2109099-006	2108-066-6	.01	PFC/537M/PFAS		Water	300.0000mL	8.00mL	
8	K2109102-001	CUD Intake	.01	PFC/537M/PFAS		Water	305.0000mL	8.00mL	
9	K2109102-002	Below Walter Hill Dam	.01	PFC/537M/PFAS		Water	295.0000mL	8.00mL	
10	K2109102-003	Murfreesboro Intake	.01	PFC/537M/PFAS		Water	310.0000mL	8.00mL	
11	K2109102-004	EFSR @ Betty Ford	.01	PFC/537M/PFAS		Water	305.0000mL	8.00mL	
12	K2109102-005	Old Fort Park	.01	PFC/537M/PFAS		Water	300.0000mL	8.00mL	
13	K2109102-006	Peggy Johnson Home	.01	PFC/537M/PFAS		Water	305.0000mL	8.00mL	
14	K2109142-001	Final Effluent	.02	PFC/537M/PFAS		Water	300.0000mL	8.00mL	
15	R2107978-006	754006-TPTS-LGV-EFF-08-05-21	.03	PFC/537M/PFAS		Water	295.0000mL	8.00mL	
16	R2107979-001	754006-TPTS-INF-080521	.01	PFC/537M/PFAS		Water	270.0000mL	8.00mL	
17	R2107979-002	754006-TPTS-INF-D-080521	.01	PFC/537M/PFAS		Water	270.0000mL	8.00mL	
18	R2107979-003	754006-TPTS-LDV-080521	.01	PFC/537M/PFAS		Water	300.0000mL	8.00mL	
19	R2107979-004	FRB-080521	.01	PFC/537M/PFAS		Water	280.0000mL	8.00mL	
20	KQ2115525-01	R2107979-001 MS	.03	PFC/537M/PFAS		Liquid	290.0000mL	8.00mL	
21	KQ2115525-02	R2107979-001 DMS	.04	PFC/537M/PFAS		Liquid	295.0000mL	8.00mL	
22	KQ2115525-03	LCS		PFC/537M/PFAS		Liquid	250mL	8.00mL	
23	KQ2115525-04	MB		PFC/537M/PFAS		Liquid	250mL	8.00mL	

Spiking Solutions

Name: PFC Targets 200ppb mix Inventory ID 218107 Logbook Ref: 20-OLC-03-90A Expires On: 12/12/2021

KQ2115525-01	40.00µL	KQ2115525-02	40.00µL	KQ2115525-03	40.00µL

Name: PFC IS Inventory ID 218321 Logbook Ref: 21-OLC-02-12B Expires On: 02/09/2022

K2109002-021	10.00µL	K2109099-001	10.00µL	K2109099-002	10.00µL	K2109099-003	10.00µL	K2109099-004	10.00µL	K2109099-005	10.00µL
K2109099-006	10.00µL	K2109102-001	10.00µL	K2109102-002	10.00µL	K2109102-003	10.00µL	K2109102-004	10.00µL	K2109102-005	10.00µL
K2109102-006	10.00µL	K2109142-001	10.00µL	KQ2115525-01	10.00µL	KQ2115525-02	10.00µL	KQ2115525-03	10.00µL	KQ2115525-04	10.00µL
R2107978-006	10.00µL	R2107979-001	10.00µL	R2107979-002	10.00µL	R2107979-003	10.00µL	R2107979-004	10.00µL		

Preparation Information Benchsheet

Prep Run#: 385310
Team: Organic LC/ASERVICE

Prep WorkFlow: OLC_PFAS_SPE_L
Prep Method: ALS SOP

Status: Prepped
Prep Date/Time: 8/18/21 09:55

Name:	PFC Isotopes 2ppm	Inventory ID	218441	Logbook Ref:	21-OLC-02-04K	Expires On:	01/23/2022

K2109002-021	20.00µL	K2109099-001	20.00µL	K2109099-002	20.00µL	K2109099-003	20.00µL	K2109099-004	20.00µL	K2109099-005	20.00µL
K2109099-006	20.00µL	K2109102-001	20.00µL	K2109102-002	20.00µL	K2109102-003	20.00µL	K2109102-004	20.00µL	K2109102-005	20.00µL
K2109102-006	20.00µL	K2109142-001	20.00µL	KQ2115525-01	20.00µL	KQ2115525-02	20.00µL	KQ2115525-03	20.00µL	KQ2115525-04	20.00µL
R2107978-006	20.00µL	R2107979-001	20.00µL	R2107979-002	20.00µL	R2107979-003	20.00µL	R2107979-004	20.00µL		

Name:	PFC Isotopes 2ppm	Inventory ID	218467	Logbook Ref:	20-OLC-03-100F	Expires On:	02/10/2026

K2109002-021	20.00µL	K2109099-001	20.00µL	K2109099-002	20.00µL	K2109099-003	20.00µL	K2109099-004	20.00µL	K2109099-005	20.00µL
K2109099-006	20.00µL	K2109102-001	20.00µL	K2109102-002	20.00µL	K2109102-003	20.00µL	K2109102-004	20.00µL	K2109102-005	20.00µL
K2109102-006	20.00µL	K2109142-001	20.00µL	KQ2115525-01	20.00µL	KQ2115525-02	20.00µL	KQ2115525-03	20.00µL	KQ2115525-04	20.00µL
R2107978-006	20.00µL	R2107979-001	20.00µL	R2107979-002	20.00µL	R2107979-003	20.00µL	R2107979-004	20.00µL		

Preparation Steps

Step:	Extraction Start	Step:	Extraction	Step:	Final Volume
Started:	8/18/21 09:55	Started:	8/18/21 16:03	Started:	8/20/21 19:00
Finished:	8/18/21 10:00	Finished:	8/18/21 16:03	Finished:	8/20/21 20:21
By:	ASERVICE	By:	ASERVICE	By:	MSESSIONS
Comments		Comments		Comments	

Comments: _____

Reviewed By: _____ Date: 8-20-21

Chain of Custody

Relinquished By: _____ Date: 8-20-21

Received By: _____ Date: 8-23-21

Extracts Examined
Yes No

Preparation Information Benchsheet

Prep Run#: 385310
Team: Organic LC/ASERVICE
Number of Copies to make: 6

Prep WorkFlow: OLC_PFAS_SPE_L
Prep Method: ALS SOP

Status: Extraction
Prep Date/Time: 8/18/21 09:55 AM

#	Lab Code	Client ID	B#	√	Method /Test	Matrix	Amt. Ext. (mL)	pH	Int. Vol	Final Vol	Surr Amt	Spike Amt
1	K2109002-021	JT7 6 (2)	.01	✓	PFC/537M / PFAS	Water	220	3.5	N/A	8.00mL	25µL/20µL	
2	K2109099-001	2108-066-1	.01	✓	PFC/537M / PFAS	Water	310					
3	K2109099-002	2108-066-2	.01	✓	PFC/537M / PFAS	Water	300					
4	K2109099-003	2108-066-3	.01	✓	PFC/537M / PFAS	Water	315					
5	K2109099-004	2108-066-4	.01	✓	PFC/537M / PFAS	Water	305					
6	K2109099-005	2108-066-5	.01	✓	PFC/537M / PFAS	Water	270					
7	K2109099-006	2108-066-6	.01	✓	PFC/537M / PFAS	Water	300					
8	K2109102-001	CUD Intake (1)	.01	✓	PFC/537M / PFAS	Water	305					
9	K2109102-002	Below Walter Hill Dam	.01	✓	PFC/537M / PFAS	Water	295					
10	K2109102-003	Murfreesboro Intake	.01	✓	PFC/537M / PFAS	Water	310					
11	K2109102-004	EFSR @ Betty Ford	.01	✓	PFC/537M / PFAS	Water	305					
12	K2109102-005	Old Fort Park	.01	✓	PFC/537M / PFAS	Water	300					
13	K2109102-006	Peggy Johnson Home	.01	✓	PFC/537M / PFAS	Water	305					
14	K2109142-001	Final Effluent (1)	.02	✓	PFC/537M / PFAS	Water	300					
15	R2107978-006	754006-TPTS-LGV-EFF-08-05-21	.03	✓	PFC/537M / PFAS	Water	295					
16	R2107979-001	754006-TPTS-INF-080521	.01	✓	PFC/537M / PFAS	Water	270					
17	R2107979-002	754006-TPTS-INF-D-080521	.01	✓	PFC/537M / PFAS	Water	↓					
18	R2107979-003	754006-TPTS-LDV-080521	.01	✓	PFC/537M / PFAS	Water	300					
19	R2107979-004	FRB-080521	.01	✓	PFC/537M / PFAS	Water	280					
20	KQ2115525-01	R2107979-001 MS	.03	✓	PFC/537M / PFAS	Liquid	290					40µL
21	KQ2115525-02	R2107979-001 DMS	.04	✓	PFC/537M / PFAS	Liquid	295					↓
22	KQ2115525-03	LCS			PFC/537M / PFAS	Liquid	250					↓
23	KQ2115525-04	MB			PFC/537M / PFAS	Liquid	↓	↓	↓	↓	↓	—

(1) light green/brown sediment
(2) under 250 mL

Comments:

Surrogate ID: 20-OLC-03-100F exp: 2/10/26
21-OLC-02-04K exp: 1/23/22 epp: nando

Spike ID: 20-OLC-03-90A exp: 12/12/21 epp: nando

Witnessed By: —

Analyst: AS

Assisted By: —

Additional prep information for Perfluorinated Compounds
by HPLC/MS/MS – SOP: LCP-PFC (rev. 10)

Waters

Service Request K2109002, 9099, 9102, 9142, R2107978, R2107979 **Workgroup** WQ2115525

6cc 200mg Strata XL-AW Cartridge Sorbent Lot # S322-0036

Envi-Carb Lot # _____

0.1% NH_4OH in MeOH Lot# 21-OLC-02-05A MeOH Lot# EB831

Reagent Water Lot# 61091

Acetic Acid (LCMS Grade) Lot# MKCN3460

25% NH_4OH Lot# _____

Centrifuge Used? (K-Sir-Spins-A-Lot): ☐Yes ☒No

Extraction (Manifold) Start (Time/Date/Initial): 14:10 8/18/21 AS

Extraction (Manifold) Stop (Time/Date/Initial): 15:50 8/18/21 AS

IS solution (13C7-PFUnDA 500ppb) Lot #: 21-OLC-02-12B xp: 2-9-22 Pascal

Nylon Filter Lot#: 210026103

Extract Storage: Aaaamazing!, 45-R

Completed(Time/Date/Initial): 8:15pm 8-20-21 MS

Comments/Observations:

_____

_____

_____

_____

Bench Sheet Review Check List
❑ Hold Times Met (if no, Reason: _____)
❑ Prep date, dept, method, product code correct in stealth
❑ Spike Information correct
❑ Weights/Volumes and units correct on raw and final bench sheets
❑ Sample IDs have been checked—Bottle numbers appended if required
❑ Names present for: Started by, Completed by, relinquished by, and witnessed by.
❑ Training has been circled
❑ Extract Storage recorded
❑ Additional Prep Sheet completely filled out (NA or line out Blanks)
❑ All clean-ups have been noted on additional prep sheet
❑ Signed service request with Form V, if applicable, has been attached

Preparation Information Benchsheet

Prep Run#: 385318 **Prep WorkFlow:** OLC_PFAS_SON_S **Status:** Prepped
Team: Organic LC/MSESSIONS **Prep Method:** ALS SOP **Prep Date/Time:** 8/31/21 17:32
Number of Copies to make: 2

#	Lab Code	Client ID	B#	Method /Test	pH	Matrix	Amt. Ext.	Final Vol	Sample Description
1	K2109142-002	Incin. Feed	.02	PFC/537M/PFAS		Soil	1.059g	8.00mL	AMOORE k-balance-54
2	KQ2115544-01	K2109142-002 MS	.02	PFC/537M/PFAS		Solid	1.132g	8.00mL	AMOORE k-balance-54
3	KQ2115544-02	K2109142-002 DMS	.02	PFC/537M/PFAS		Solid	1.225g	8.00mL	AMOORE k-balance-54
4	K2109296-004	LCS06	.01	PFC/537M/PFAS		Soil	1g	8.00mL	
5	K2109296-004	LCS06	.01			Soil	1g	8.00mL	
6	KQ2115544-07	MDL		PFC/537M/PFAS		Solid	1g	8.00mL	
7	KQ2115544-07	MDL				Solid	1g	8.00mL	
8	KQ2115544-08	MDL		PFC/537M/PFAS		Solid	1g	8.00mL	
9	KQ2115544-08	MDL				Solid	1g	8.00mL	
10	KQ2115544-05	LCS		PFC/537M/PFAS		Solid	1g	8.00mL	
11	KQ2115544-05	LCS				Solid	1g	8.00mL	
12	KQ2115544-06	DLCS		PFC/537M/PFAS		Solid	1g	8.00mL	
13	KQ2115544-06	DLCS				Solid	1g	8.00mL	
14	KQ2115544-04	MB				Solid	1g	8.00mL	
15	KQ2115544-04	MB		PFC/537M/PFAS		Solid	1g	8.00mL	

Spiking Solutions

Name: PFC Targets 200ppb mix Inventory ID 218107 Logbook Ref: 20-OLC-03-90A Expires On: 12/12/2021

KQ2115544-01	40.00µL	KQ2115544-02	40.00µL	KQ2115544-05	40.00µL	KQ2115544-05	40.00µL	KQ2115544-06	40.00µL	KQ2115544-06	40.00µL

Name: PFC IS Inventory ID 218321 Logbook Ref: 21-OLC-02-12B Expires On: 02/09/2022

K2109142-002	10.00µL	K2109296-004	10.00µL	K2109296-004	10.00µL	KQ2115544-01	10.00µL	KQ2115544-02	10.00µL	KQ2115544-04	10.00µL
KQ2115544-04	10.00µL	KQ2115544-05	10.00µL	KQ2115544-05	10.00µL	KQ2115544-06	10.00µL	KQ2115544-06	10.00µL	KQ2115544-07	10.00µL
KQ2115544-07	10.00µL	KQ2115544-08	10.00µL	KQ2115544-08	10.00µL						

Name: PFC Targets 10ppb mix Inventory ID 218953 Logbook Ref: 21-OLC-02-18H Expires On: 12/12/2021

KQ2115544-07	20.00µL	KQ2115544-07	20.00µL	KQ2115544-08	40.00µL	KQ2115544-08	40.00µL

Name: PFC Isotopes 2ppm Inventory ID 218974 Logbook Ref: 21-OLC-02-15F Expires On: 02/18/2022

K2109142-002	20.00µL	K2109296-004	20.00µL	K2109296-004	20.00µL	KQ2115544-01	20.00µL	KQ2115544-02	20.00µL	KQ2115544-04	20.00µL
KQ2115544-04	20.00µL	KQ2115544-05	20.00µL	KQ2115544-05	20.00µL	KQ2115544-06	20.00µL	KQ2115544-06	20.00µL	KQ2115544-07	20.00µL
KQ2115544-07	20.00µL	KQ2115544-08	20.00µL	KQ2115544-08	20.00µL						

Preparation Information Benchsheet

Prep Run#: 385318 **Prep WorkFlow:** OLC_PFAS_SON_S **Status:** Prepped
Team: Organic LC/MSESSIONS **Prep Method:** **Prep Date/Time:** 8/31/21 17:32

Name:	PFC Isotopes 2ppm	Inventory ID	218997	Logbook Ref:	21-OLC-02-19F	Expires On:	02/10/2026

K2109142-002	20.00µL	K2109296-004	20.00µL	K2109296-004	20.00µL	KQ2115544-01	20.00µL	KQ2115544-02	20.00µL	KQ2115544-04	20.00µL
KQ2115544-04	20.00µL	KQ2115544-05	20.00µL	KQ2115544-05	20.00µL	KQ2115544-06	20.00µL	KQ2115544-06	20.00µL	KQ2115544-07	20.00µL
KQ2115544-07	20.00µL	KQ2115544-08	20.00µL	KQ2115544-08	20.00µL						

Preparation Steps

Step:	Weigh	Step:	Sonication	Step:	Carbon Clean	Step:	Final Volume
Started:	8/13/21 17:32	Started:	8/31/21 13:21	Started:	8/31/21 17:00	Started:	8/31/21 18:00
Finished:	8/31/21 11:30	Finished:	8/31/21 16:22	Finished:	8/31/21 18:00	Finished:	8/31/21 19:11
By:	MSESSIONS	By:	MSESSIONS	By:	MSESSIONS	By:	MSESSIONS
Comments		Comments		Comments		Comments	

Comments: _____

Reviewed By: _____ Date: _____

Chain of Custody

Relinquished By: _____ Date: 8-31-21

Received By: _____ Date: _____

Extracts Examined
Yes No

Preparation Information Benchsheet

Prep Run#: 385318 **Prep WorkFlow:** OLC_PFAS_SON_S **Status:** Sonication
Team: Organic LC/MSESSIONS **Prep Method:** ALS SOP **Prep Date/Time:** 8/31/21 05:32 PM
Number of Copies to make: 2

#	Lab Code	Client ID	B#	√	Method /Test	Matrix	Amt. Ext. (g)	pH	Int. Vol	Final Vol	Surr Amt (uL)	Spike Amt
1	**K2109142-002**	Incin. Feed	.02	✓	PFC/537M / PFAS	Soil	1.059	N/A	N/A	8.00mL	20(A)/20(B)	N/A
2	**KQ2115544-01**	K2109142-002 MS	.02	✓	PFC/537M / PFAS	Solid	1.132					40uL(C)*
3	**KQ2115544-02**	K2109142-002 DMS	.02	✓	PFC/537M / PFAS	Solid	1.225					↓
4	**K2109296-004**	LCS06	.01	✓	PFC/537M / PFAS	Soil	1.000g					N/A
5	**K2109296-004**	LCS06	.01	✓	PFC/537M / PFAS_ACCESSORIES	Soil						↓
6	**KQ2115544-07**	MDL 1			PFC/537M / PFAS	Solid						20uL(E)*
7	**KQ2115544-07**	MDL 1			PFC/537M / PFAS_ACCESSORIES	Solid						↓
8	**KQ2115544-08**	MDL 2			PFC/537M / PFAS	Solid						40uL(E)*
9	**KQ2115544-08**	MDL 2			PFC/537M / PFAS_ACCESSORIES	Solid						↓
10	**KQ2115544-05**	LCS			PFC/537M / PFAS	Solid						40uL(C)*
11	**KQ2115544-05**	LCS			PFC/537M / PFAS_ACCESSORIES	Solid						↓
12	**KQ2115544-06**	DLCS			PFC/537M / PFAS	Solid						↓
13	**KQ2115544-06**	DLCS			PFC/537M / PFAS_ACCESSORIES	Solid						↓
14	**KQ2115544-04**	MB			PFC/537M / PFAS_ACCESSORIES	Solid						N/A
15	**KQ2115544-04**	MB			PFC/537M / PFAS	Solid	↓	↓	↓	↓	↓	↓

*EEMS 8-31-21

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Comments:

(A) 21-OLC-02-19F xp: 2-10-26 Newton ↓
(B) 21-OLC-02-15F xp: 2-18-22 ↓
(C) 20-OLC-03-90A xp: 12-12-21 Newton ↓
(D) 21-OLC-02-18H 10ppb xp: 12-12-21 ↓

Surrogate ID:
Spike ID:
Witnessed By:
Analyst:
Assisted By:

Pre-Prep Information Benchsheet

Prep Run #: 385318 **Container Lot No:** P7400499 **Prep Due Date:** Aug-17-2021

#	Lab Code	Bottle	Test Name	Weight	Sample Comments	Test Comments
1	K2109142-002	.02	PFAS : PFC/537M/	1.059g		AMOORE k-balance-54
2	K2109142-002 MS KQ2115544-01	.02	PFAS : PFC/537M/	1.132g		AMOORE k-balance-54
3	K2109142-002 DMS KQ2115544-02	.02	PFAS : PFC/537M/	1.225g		AMOORE k-balance-54

8/13/21

Relinquished By: AM	Date/Time: 17:57	Received By: [signature]	Date/Time: 8-16-21 9:10 am

Additional prep information for Perfluorinated Compounds
by HPLC/MS/MS – SOP: LCP-PFC (rev. 11.3)

Soil/Paperboard

Service Request K2109142, 9296 **Workgroup** KQ2115544

1% Acetic Acid/MeOH Lot # 21-OLC-02-10E

Sonication Start (Time/Date/Initial): 1:21pm 8-31-21 MS

Sonication Stop (Time/Date/Initial): 4:22pm 8-31-21 MS

NH4OH lot #: SHBL3801

Envi-Carb lot #: 140919 Centrifuge Used? (K-Sir-Spins-A-Lot): ☑ Yes ☐ No

IS (or IS/MeOH solution) Lot #: 21-OLC-02-12B xp:2-9-22

Nylon Filter Lot (size)#: FG7230

Extract Storage: Tron, 45-R

Completed(Time/Date/Initial): 7:11pm 8-31-21

Comments/Observations:

Bench Sheet Review Check List
☐ Hold Times Met (if no, Reason:)
☐ Prep date, dept, method, product code correct in stealth
☐ Spike Information correct
☐ Weights/Volumes and units correct on raw and final bench sheets
☐ Sample IDs have been checked—Bottle numbers appended if required
☐ Names present for: Started by, Completed by, relinquished by, and witnessed by.
☐ Training has been circled
☐ Extract Storage recorded
☐ Additional Prep Sheet completely filled out (NA or line out Blanks)
☐ All clean-ups have been noted on additional prep sheet
☐ Signed service request with Form V, if applicable, has been attached

1st UA 08/30/21
2nd 08/31/21

Validation Report

Data File: J:\LCMS06\Data\210823_B3\210823_032
Lab ID: K2109142-001.R01
RunType: N/A
Matrix: Water

Date Acquired: 8/23/21 21:42
Batch ID: 736760
Analysis Method: PFC/537M/PFAS

Validations

Validation Categories	Pass	Fail
Preparation Hold Time	X	
Analytical Hold Time	X	
ICAL Analyte Recovery	X	
Second Source ICAL Verification	X	
Continuing Calibration Recovery	X	
Lab Control Sample Recovery		X
Method Blank	X	
Method Blank Surrogates	X	
Internal Standards	X	
Surrogates		X
Std MRL Unsupported by ICAL	X	
Above Highest ICAL Level	X	

Analyte Exceptions

Exception Categories	Analyte Name	Result	Low Limit	High Limit	Corrective Action
Lab Control Sample Recovery	13C3-PFBS	112	20	109	Native in control
	D9-EtFOSE	110	19	109	Native in control
Surrogates	13C2-PFTeDA	11	13	124	RR to confirm

Primary Review: _____

Secondary Review: _____

1st UA 08/30/21
2nd 08/31/21

Quantitation Report

Data File:	J:\LCMS06\Data\210823_B3\210823_032	**Instrument:**	K-LCMS-06
Acqu Date:	8/23/21 21:42	**Vial:**	18
Run Type:	N/A	**Dilution:**	1
Lab ID:	K2109142-001.R01	**Raw Units:**	ng/mL

Bottle ID:	K2109142-001.02	**Tier:**	IV	**Matrix:**	Water
Prod Code:	PFAS	**Collect Date:**	8/5/21	**Receive Date:**	8/6/21

Analysis Lot:	736760	**Prep Lot:**	385310	**Report Group:**	K2109142
Analysis	PFC/537M	**Prep Method:**	ALS SOP		
		Prep Date:	8/18/21		

Title:	Per- and Polyfluoroalkyl Substances (PFAS) by LC/MS/MS	**Calibration ID:**	KC2100446
		Report List ID:	19837

Internal Standard Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	Area Criteria
13C7-PFUnDA	5.140	+0.01	4245006	5.0000	OK

Surrogate Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	% Rec		% Rec Criteria	Rpt?
13C3-PFBS	4.030	0.00	447254	5.1035	102		20 - 109	Y
18O2-PFHxS	4.419	+0.00	259893	4.3493	87		26 - 122	Y
13C4-PFOS	4.755	+0.01	304364	4.0983	82		25 - 121	Y
13C4-PFBA	3.411	-0.01	1479894	4.2684	85		27 - 124	Y
13C5-PFPeA	3.975	0.00	912128	3.9920	80		27 - 138	Y
13C2-PFHxA	4.235	+0.00	2533305	4.0268	81		28 - 132	Y
13C4-PFHpA	4.419	+0.00	2628524	4.1153	82		19 - 139	Y
13C4-PFOA	4.589	+0.00	2728811	3.8377	77		22 - 130	Y
13C5-PFNA	4.768	+0.01	2081755	3.8380	77		20 - 127	Y
13C2-PFDA	4.953	+0.01	1490235	3.7171	74		24 - 125	Y
13C2-PFUnDA	5.140	+0.01	1817694	3.4029	68		22 - 125	Y
13C2-PFDoDA	5.319	+0.01	998237	1.7060	34		19 - 122	Y
13C2-PFTeDA	5.640	+0.01	222774	0.5626	11	*	13 - 124	Y
13C8-FOSA	5.240	+0.01	747535	2.9645	59		18 - 109	Y
D3-MeFOSA	5.630	+0.01	142634	2.4327	49		15 - 153	Y
D5-EtFOSA	5.757	+0.01	138798	2.0835	42		25 - 107	Y
D7-MeFOSE	5.606	+0.01	169386	2.8889	58		24 - 112	Y
D9-EtFOSE	5.729	+0.01	165024	2.7185	54		19 - 109	Y
13C2-6:2 FTS	4.579	+0.00	449875	4.8816	98		10 - 226	Y
13C2-8:2 FTS	4.952	+0.01	231822	4.7261	95		10 - 202	Y

Target Compounds

Final Conc.Units: ng/L

Parameter Name	RT	RT Dev	Response	Solution Conc	Final Conc	Q	Rpt?

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

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1st UA 08/30/21

2nd 08/31/21

Data File:	J:\LCMS06\Data\210823_B3\210823_032	**Instrument:**	K-LCMS-06
Acqu Date:	8/23/21 21:42	**Vial:**	18
Run Type:	N/A	**Dilution:**	1
Lab ID:	K2109142-001.R01	**Raw Units:**	ng/mL

Target Compounds

Final Conc.Units: ng/L

Parameter Name	RT	RT Dev	Response	Solution Conc	Final Conc	Q	Rpt?
Perfluorobutane sulfonic acid (PFBS)	0		0	0	0	U	Y
Perfluorohexane sulfonic acid (PFHxS)	4.417	+0.01	5475	0.0419	1.1	U	Y
Perfluoroheptane sulfonic acid (PFHpS)	4.582	+0.00	4378	0.0401	1.1	J	Y
Perfluorooctane sulfonic acid (PFOS)	4.753	+0.00	7080	0.1237	3.3	J	Y
Perfluorodecane sulfonic acid (PFDS)	0		0	0	0	U	Y
Perfluorobutanoic acid (PFBA)	3.321	-0.10	373759	1.0289	27		Y
Perfluoropentanoic acid (PFPeA)	3.975	0.00	130531	0.2250	6.0		Y
Perfluorohexanoic acid (PFHxA)	4.235	+0.00	422989	0.6162	16		Y
Perfluoroheptanoic acid (PFHpA)	4.422	+0.01	41590	0.0728	1.9	J	Y
Perfluorooctanoic acid (PFOA)	4.589	+0.00	142665	0.1701	4.5		Y
Perfluorononanoic acid (PFNA)	4.768	+0.01	25283	0.0492	1.3	J	Y
Perfluorodecanoic acid (PFDA)	4.951	+0.01	20172	0.0453	1.2	J	Y
Perfluoroundecanoic acid (PFUnDA)	5.142	+0.01	2610	0.0060	0.16	U	Y
Perfluorododecanoic acid (PFDoDA)	5.316	+0.00	1675	0.0086	0.23	U	Y
Perfluorotridecanoic acid (PFTrDA)	5.488	+0.01	786	0.0119	0.32	U	Y
Perfluorotetradecanoic acid (PFTeDA)	5.636	+0.00	1402	0.0280	0.75	U	Y
Perfluorooctane sulfonamide (FOSA)	5.238	+0.01	1644	0.0087	0.23	U	Y
N-Methyl perfluorooctane sulfonamide (MeFOSA)	0		0	0	0	U	Y
N-Ethyl perfluorooctane sulfonamide (EtFOSA)	0		0	0	0	U	Y
N-Methyl perfluorooctane sulfonamidoethanol	5.538	-0.07	730	0.0098	0.26	U	Y
N-Ethyl perfluorooctane sulfonamidoethanol	0		0	0	0	U	Y
6:2 Fluorotelomer sulfonic acid (6:2 FTS)	4.582	+0.01	7225	0.0577	1.5	J	Y
8:2 Fluorotelomer sulfonic acid (8:2 FTS)	4.948	+0.00	820	0.0152	0.41	J	Y

Prep Amount:	300.0000 mL	**Dilution:**	1
Prep Final Amount:	8.00 mL	**Basis Factor:**	100.00

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

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Insight Report
Quantitation/Integration
Printed 8/30/2021 19:23:48

210823_032

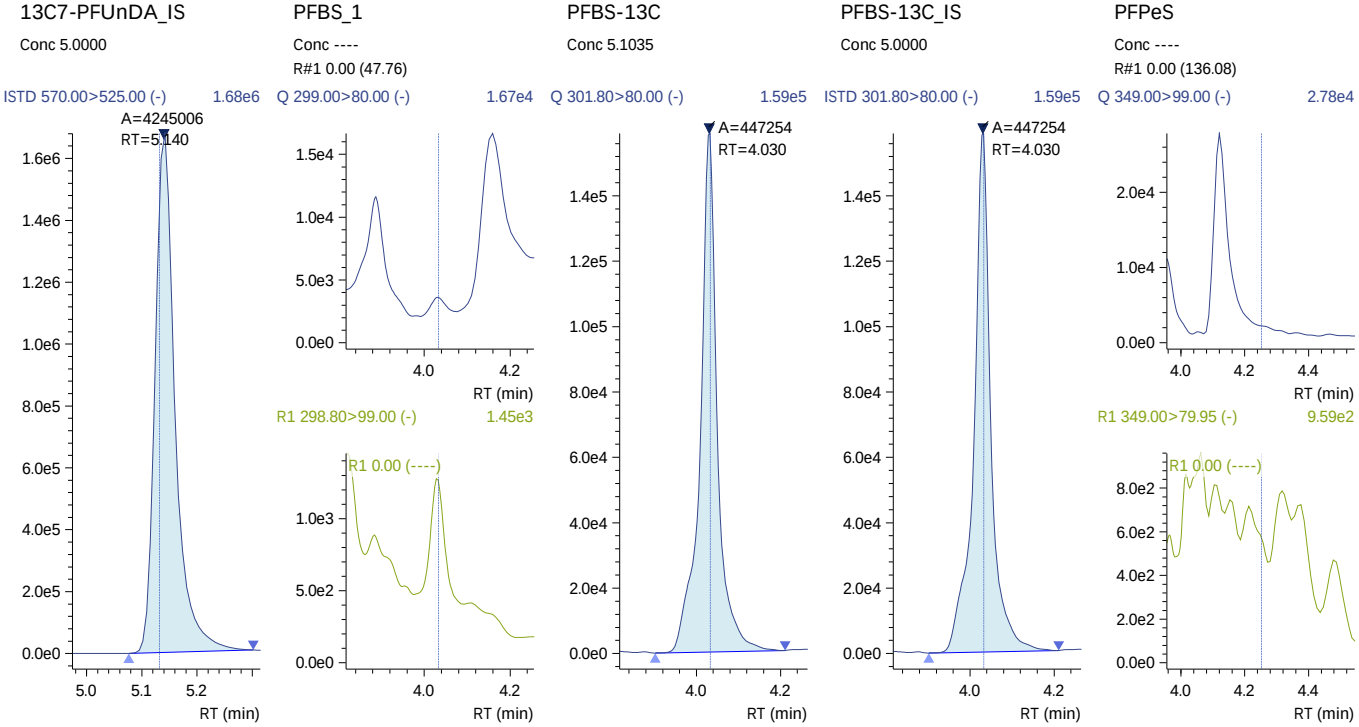
Sample ID: K2109142-001
Date Acquired: 8/23/2021 9:42:18 PM
Acquired by: System Administrator
Data File: 210823_032
Vial: 18 | Inj. Volume: 15.0000uL | Tray: 3

Name	Mode ID	Found RT	Area	ISTD Area	ISTD Name	Std. Conc.	Conc.	Unit
13C7-PFUnDA_IS	Auto	5.140	4245006	4245006	----	----	5.0000	ng/mL
PFBS_1	ND(W/B)	----	----	447254	PFBS-13C_IS	----	----	ng/mL
PFBS-13C	Auto	4.030	447254	4245006	13C7-PFUnDA_IS	----	5.1035	ng/mL
PFBS-13C_IS	Auto	4.030	447254	447254	----	----	5.0000	ng/mL
PFPeS	ND(W/B)	----	----	447254	PFBS-13C_IS	----	----	ng/mL
PFHxS_1	Auto	4.417	5475	259893	PFHxS-18O_IS	----	0.0419	ng/mL
PFHxS-18O	Auto	4.419	259893	4245006	13C7-PFUnDA_IS	----	4.3493	ng/mL
PFHxS-18O_IS	Auto	4.419	259893	259893	----	----	5.0000	ng/mL
PFHpS_1	M	4.582	4378	259893	PFHxS-18O_IS	----	0.0401	ng/mL
PFOS_1	M	4.753	7080	304364	PFOS-13C_IS	----	0.1237	ng/mL
PFOS-13C	Auto	4.755	304364	4245006	13C7-PFUnDA_IS	----	4.0983	ng/mL
PFOS-13C_IS	Auto	4.755	304364	304364	----	----	5.0000	ng/mL
PFNS	ND(W/B)	----	----	304364	PFOS-13C_IS	----	----	ng/mL
PFDS_1	ND(W/B)	----	----	304364	PFOS-13C_IS	----	----	ng/mL
PFBA	M	3.321	373759	1479894	PFBA-13C_IS	----	1.0289	ng/mL
PFBA-13C	Auto	3.411	1479894	4245006	13C7-PFUnDA_IS	----	4.2684	ng/mL
PFBA-13C_IS	Auto	3.411	1479894	1479894	----	----	5.0000	ng/mL
PFPeA	Auto	3.975	130531	912128	PFPeA-13C_IS	----	0.2250	ng/mL
PFPeA-13C	Auto	3.975	912128	4245006	13C7-PFUnDA_IS	----	3.9920	ng/mL
PFPeA-13C_IS	Auto	3.975	912128	912128	----	----	5.0000	ng/mL
PFHxA	Auto	4.235	422989	2533305	PFHxA-13C_IS	----	0.6162	ng/mL
PFHxA-13C	Auto	4.235	2533305	4245006	13C7-PFUnDA_IS	----	4.0268	ng/mL
PFHxA-13C_IS	Auto	4.235	2533305	2533305	----	----	5.0000	ng/mL
PFHpA	Auto	4.422	41590	2628524	PFHpA-13C_IS	----	0.0728	ng/mL
PFHpA-13C	Auto	4.419	2628524	4245006	13C7-PFUnDA_IS	----	4.1153	ng/mL
PFHpA-13C_IS	Auto	4.419	2628524	2628524	----	----	5.0000	ng/mL
PFOA	Auto	4.589	142665	2728811	PFOA-13C_IS	----	0.1701	ng/mL
PFOA-13C	Auto	4.589	2728811	4245006	13C7-PFUnDA_IS	----	3.8377	ng/mL
PFOA-13C_IS	Auto	4.589	2728811	2728811	----	----	5.0000	ng/mL
PFNA	M	4.768	25283	2081755	PFNA-13C_IS	----	0.0492	ng/mL
PFNA-13C	Auto	4.768	2081755	4245006	13C7-PFUnDA_IS	----	3.8380	ng/mL
PFNA-13C_IS	Auto	4.768	2081755	2081755	----	----	5.0000	ng/mL
PFDA	M	4.951	20172	1490235	PFDA-13C_IS	----	0.0453	ng/mL
PFDA-13C	Auto	4.953	1490235	4245006	13C7-PFUnDA_IS	----	3.7171	ng/mL
PFDA-13C_IS	Auto	4.953	1490235	1490235	----	----	5.0000	ng/mL
PFUnA	M	5.142	2610	1817694	PFUnA-13C_IS	----	0.0060	ng/mL
PFUnA-13C	Auto	5.140	1817694	4245006	13C7-PFUnDA_IS	----	3.4029	ng/mL
PFUnA-13C_IS	Auto	5.140	1817694	1817694	----	----	5.0000	ng/mL
PFDoA	M	5.316	1675	998237	PFDoA-13C_IS	----	0.0086	ng/mL
PFDoA-13C	Auto	5.319	998237	4245006	13C7-PFUnDA_IS	----	1.7060	ng/mL
PFDoA-13C_IS	Auto	5.319	998237	998237	----	----	5.0000	ng/mL
PFTrDA	M	5.488	786	222774	PFTeDA-13C_IS	----	0.0119	ng/mL
PFTeDA	M	5.636	1402	222774	PFTeDA-13C_IS	----	0.0280	ng/mL
PFTeDA-13C	Auto	5.640	222774	4245006	13C7-PFUnDA_IS	----	0.5626	ng/mL
PFTeDA-13C_IS	Auto	5.640	222774	222774	----	----	5.0000	ng/mL
FOSA	M	5.238	1644	747535	FOSA-13C_IS	----	0.0087	ng/mL
FOSA-13C	Auto	5.240	747535	4245006	13C7-PFUnDA_IS	----	2.9645	ng/mL
FOSA-13C_IS	Auto	5.240	747535	747535	----	----	5.0000	ng/mL
N-MeFOSA	ND(W/B)	----	----	142634	N-MeFOSA-d3_IS	----	----	ng/mL
N-MeFOSA-d3	Auto	5.630	142634	4245006	13C7-PFUnDA_IS	----	2.4327	ng/mL
N-MeFOSA-d3_IS	Auto	5.630	142634	142634	----	----	5.0000	ng/mL
N-EtFOSA	ND(W/B)	----	----	138798	N-EtFOSA-d9_IS	----	----	ng/mL
N-EtFOSA-d9	Auto	5.757	138798	4245006	13C7-PFUnDA_IS	----	2.0835	ng/mL
N-EtFOSA-d9_IS	Auto	5.757	138798	138798	----	----	5.0000	ng/mL

210823_032 (continued)

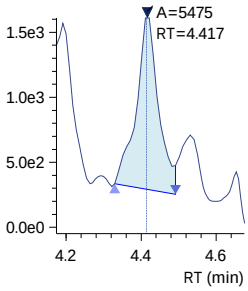
(Table continued from previous page)

Name	Mode ID	Found RT	Area	ISTD Area	ISTD Name	Std. Conc.	Conc.	Unit
N-MeFOSE	M	5.538	730	169386	N-MeFOSE-d7_IS	----	0.0098	ng/mL
N-MeFOSE-d7	Auto	5.606	169386	4245006	13C7-PFUnDA_IS	----	2.8889	ng/mL
N-MeFOSE-d7_IS	Auto	5.606	169386	169386	----	----	5.0000	ng/mL
N-EtFOSE	ND(W/B)	----	----	165024	N-EtFOSE-d9_IS	----	----	ng/mL
N-EtFOSE-d9	Auto	5.729	165024	4245006	13C7-PFUnDA_IS	----	2.7185	ng/mL
N-EtFOSE-d9_IS	Auto	5.729	165024	165024	----	----	5.0000	ng/mL
N-MeFOSAA	Auto	5.053	3273	134845	N-MeFOSAA-d3_IS	----	0.1735	ng/mL
N-MeFOSAA-d3	Auto	5.050	134845	4245006	13C7-PFUnDA_IS	----	2.8198	ng/mL
N-MeFOSAA-d3_IS	Auto	5.050	134845	134845	----	----	5.0000	ng/mL
N-EtFOSAA	ND(W/B)	----	----	134897	N-EtFOSAA-d5_IS	----	----	ng/mL
N-EtFOSAA-d5	Auto	5.151	134897	4245006	13C7-PFUnDA_IS	----	3.0302	ng/mL
N-EtFOSAA-d5_IS	Auto	5.151	134897	134897	----	----	5.0000	ng/mL
4_2-FTS_1	Auto	4.277	432	896107	4_2-FTS-13C_IS	----	0.0024	ng/mL
4_2-FTS-13C	Auto	4.209	896107	4245006	13C7-PFUnDA_IS	----	9.1860	ng/mL
4_2-FTS-13C_IS	Auto	4.209	896107	896107	----	----	5.0000	ng/mL
6_2-FTS_1	Auto	4.582	7225	449875	6_2-FTS-13C_IS	----	0.0577	ng/mL
6_2-FTS-13C	Auto	4.579	449875	4245006	13C7-PFUnDA_IS	----	4.8816	ng/mL
6_2-FTS-13C_IS	Auto	4.579	449875	449875	----	----	5.0000	ng/mL
8_2-FTS_1	M	4.948	820	231822	8_2-FTS-13C_IS	----	0.0152	ng/mL
8_2-FTS-13C	Auto	4.952	231822	4245006	13C7-PFUnDA_IS	----	4.7261	ng/mL
8_2-FTS-13C_IS	Auto	4.952	231822	231822	----	----	5.0000	ng/mL
10_2-FtS_1	Auto	5.317	22	231822	8_2-FTS-13C_IS	----	0.0006	ng/mL
HPFO_DA	ND(W/B)	----	----	422740	HFPO_DA-13C_IS	----	----	ng/mL
HFPO_DA-13C	Auto	4.303	422740	4245006	13C7-PFUnDA_IS	----	3.8542	ng/mL
HFPO_DA-13C_IS	Auto	4.303	422740	422740	----	----	5.0000	ng/mL

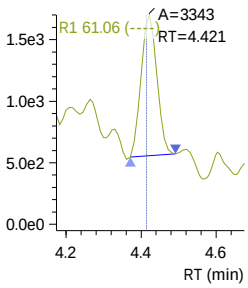


210823_032 (continued)

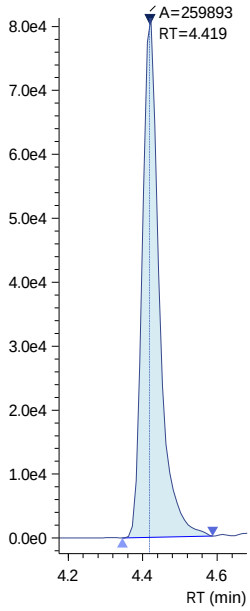
PFHxS_1
Conc 0.0419
R#1 61.06 (71.26)
Q 399.00>80.00 (-) 1.61e3



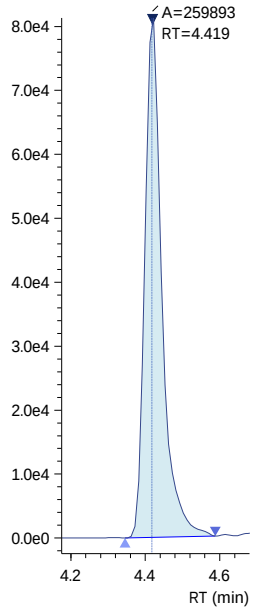
R1 399.00>99.00 (-) 1.70e3



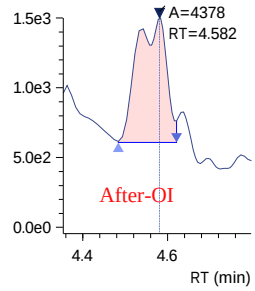
PFHxS-18O
Conc 4.3493
Q 402.70>84.05 (-) 8.13e4



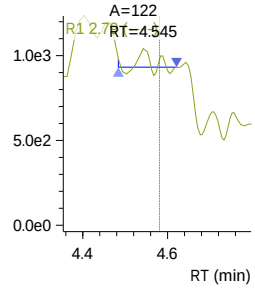
PFHxS-18O_IS
Conc 5.0000
ISTD 402.70>84.05 (-) 8.13e4



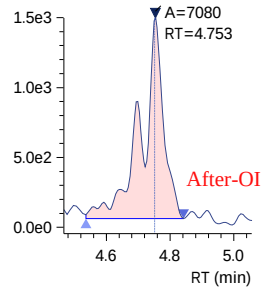
PFHpS_1
Conc 0.0401
R#1 2.79 (53.84)
Q 449.00>80.15 (-) 1.50e3



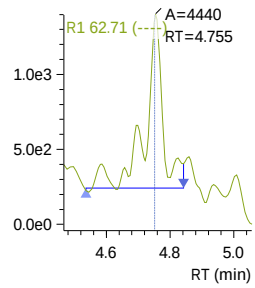
R1 449.00>99.20 (-) 1.23e3



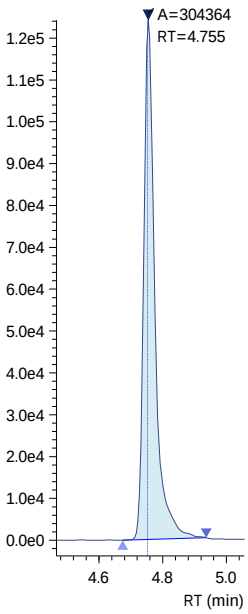
PFOS_1
Conc 0.1237
R#1 62.71 (86.72)
Q 499.00>80.00 (-) 1.50e3



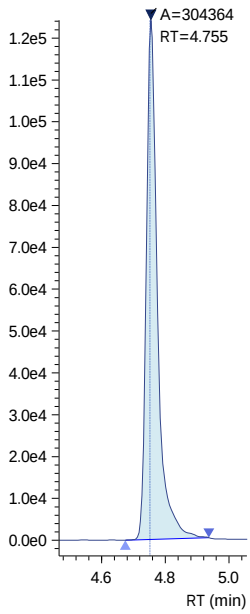
R1 499.00>99.00 (-) 1.40e3



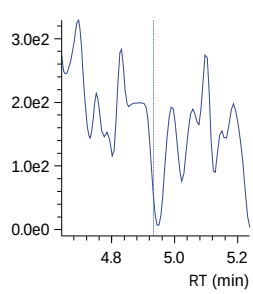
PFOS-13C
Conc 4.0983
Q 502.80>80.05 (-) 1.24e5



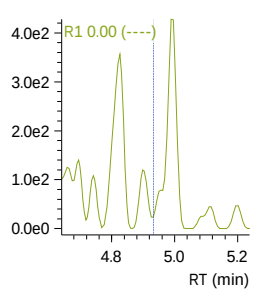
PFOS-13C_IS
Conc 5.0000
ISTD 502.80>80.05 (-) 1.24e5



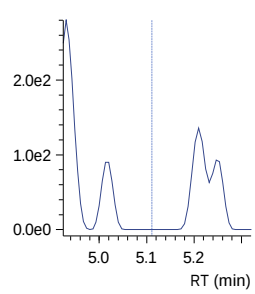
PFNS
Conc ----
R#1 0.00 (129.18)
Q 549.00>99.00 (-) 3.29e2



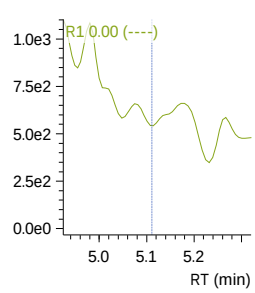
R1 549.00>79.95 (-) 4.28e2



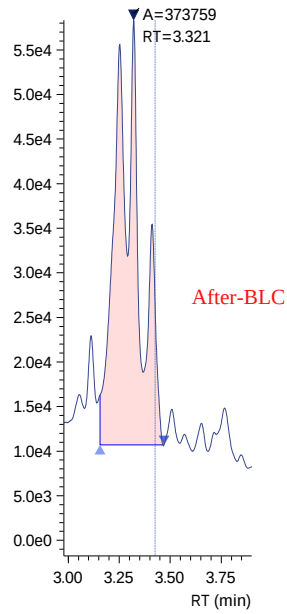
PFDS_1
Conc ----
R#1 0.00 (90.77)
Q 599.00>79.90 (-) 2.80e2



R1 599.00>99.10 (-) 1.10e3

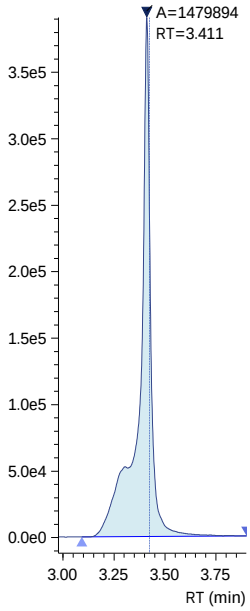


PFBA
Conc 1.0289
Q 213.00>169.10 (-) 5.83e4

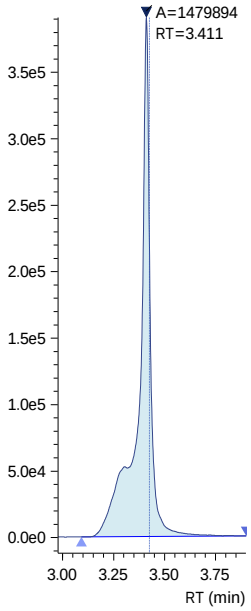


210823_032 (continued)

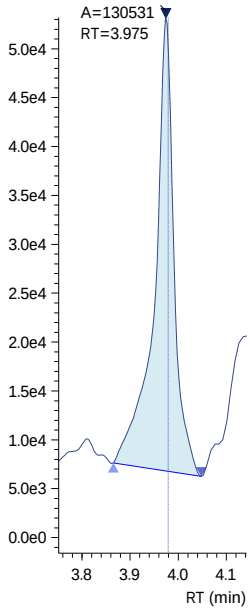
PFBA-13C
Conc 4.2684
Q 216.90>172.15 (-) 3.91e5



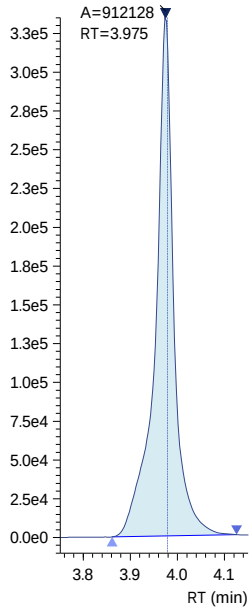
PFBA-13C_IS
Conc 5.0000
ISTD 216.90>172.15 (-) 3.91e5



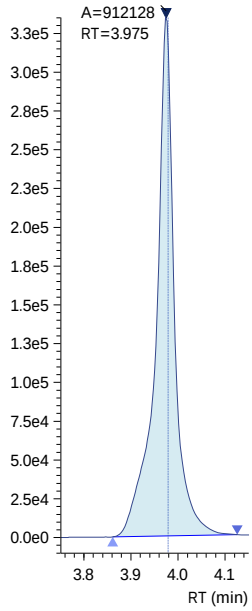
PFPeA
Conc 0.2250
Q 263.05>219.10 (-) 5.32e4



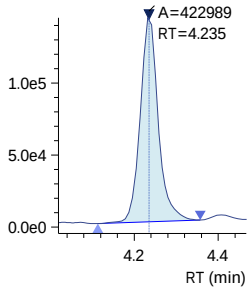
PFPeA-13C
Conc 3.9920
Q 267.90>223.00 (-) 3.35e5



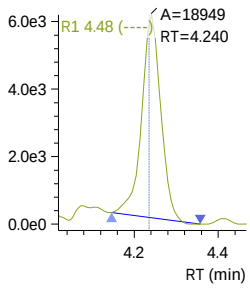
PFPeA-13C_IS
Conc 5.0000
ISTD 267.90>223.00 (-) 3.35e5



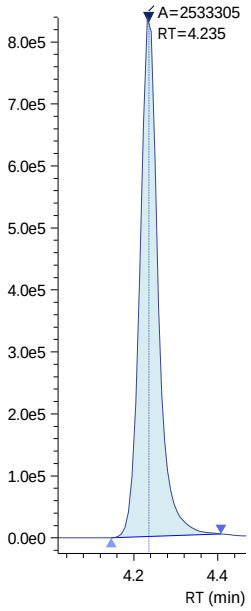
PFHxA
Conc 0.6162
R#1 4.48 (4.17)
Q 313.00>269.00 (-) 1.45e5



R1 313.00>119.10 (-) 6.20e3



PFHxA-13C
Conc 4.0268
Q 314.90>270.10 (-) 8.39e5



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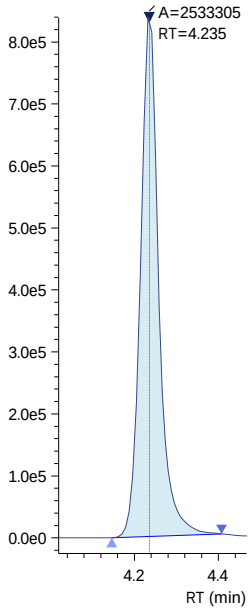
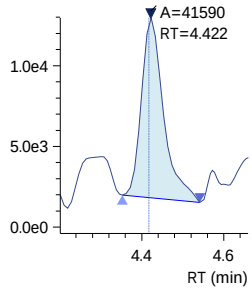
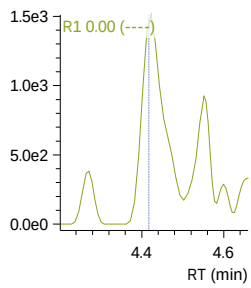
Conc 5.0000
ISTD 314.90>270.10 (-) 8.39e5



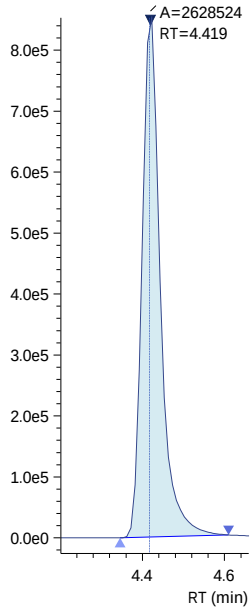
PFHpA
Conc 0.0728
R#1 0.00 (26.04)
Q 362.90>319.00 (-) 1.30e4



R1 362.90>169.00 (-) 1.51e3



PFHpA-13C
Conc 4.1153
Q 366.90>322.10 (-) 8.53e5



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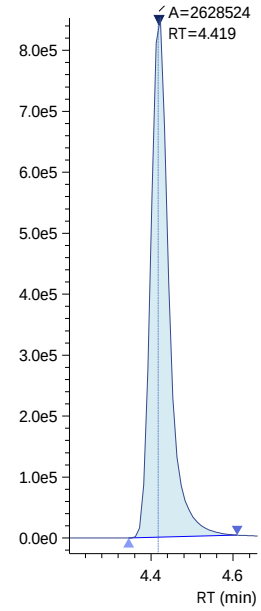
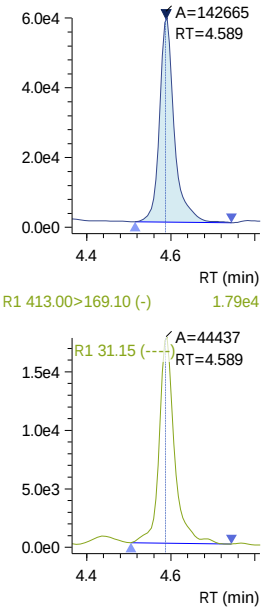
PFHpA-13C_IS
Conc 5.0000

ISTD 366.90>322.10 (-) 8.53e5



PFOA
Conc 0.1701
R#1 31.15 (30.35)

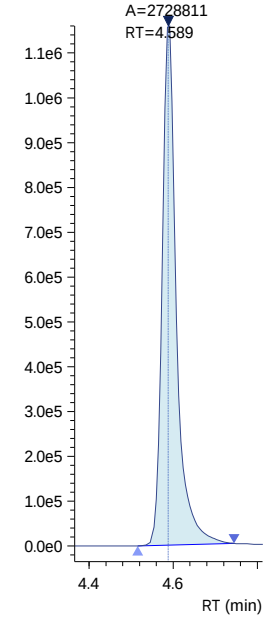
Q 413.00>369.00 (-) 6.00e4



R1 413.00>169.10 (-) 1.79e4

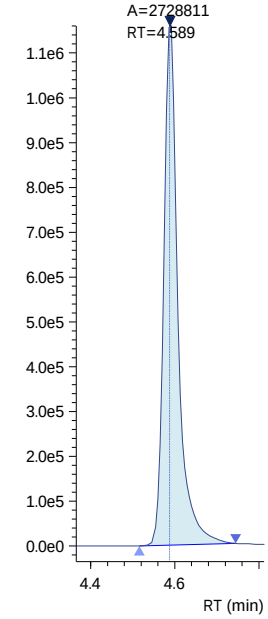
PFOA-13C
Conc 3.8377

Q 416.80>372.05 (-) 1.16e6



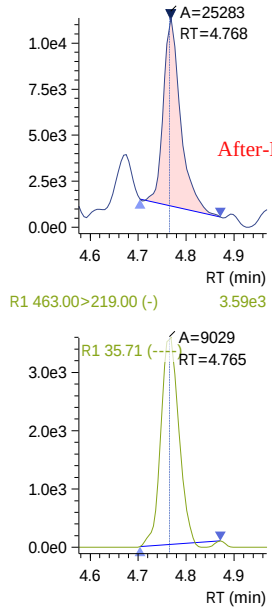
PFOA-13C_IS
Conc 5.0000

ISTD 416.80>372.05 (-) 1.16e6



PFNA
Conc 0.0492
R#1 35.71 (22.35)

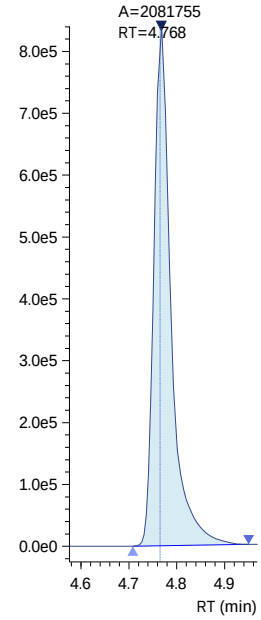
Q 463.00>418.90 (-) 1.14e4



R1 463.00>219.00 (-) 3.59e3

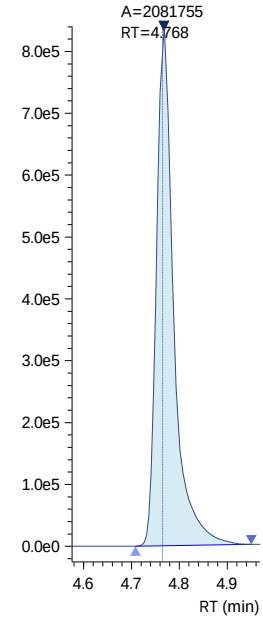
PFNA-13C
Conc 3.8380

Q 467.80>423.00 (-) 8.41e5



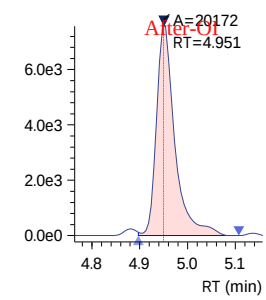
PFNA-13C_IS
Conc 5.0000

ISTD 467.80>423.00 (-) 8.41e5

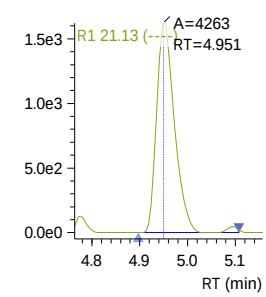


PFDA
Conc 0.0453
R#1 21.13 (18.73)

Q 513.00>468.80 (-) 7.57e3

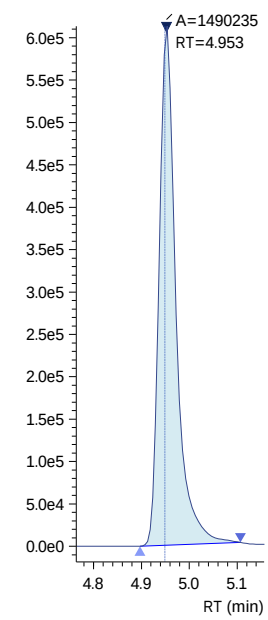


R1 513.00>219.10 (-) 1.62e3



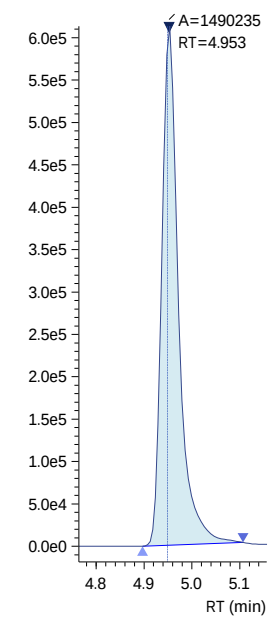
PFDA-13C
Conc 3.7171

Q 514.80>469.95 (-) 6.14e5



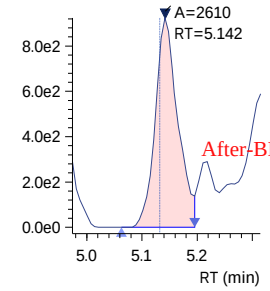
PFDA-13C_IS
Conc 5.0000

ISTD 514.80>469.95 (-) 6.14e5

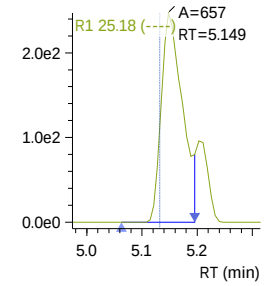


210823_032 (continued)

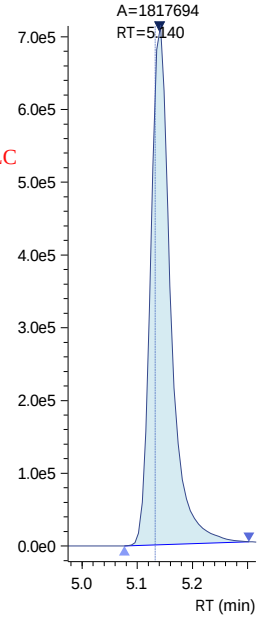
PFUnA
Conc 0.0060
R#1 25.18 (11.60)
Q 563.00>518.90 (-) 9.24e2



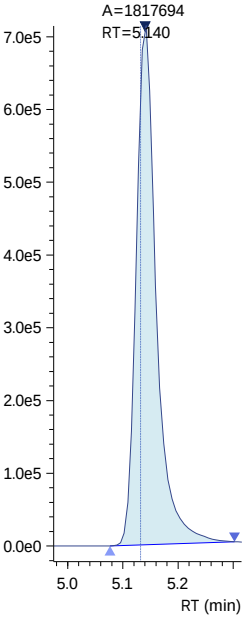
R1 563.00>219.00 (-) 2.47e2



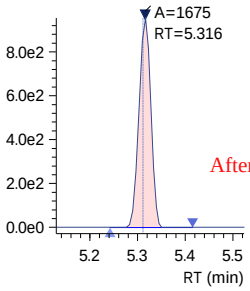
PFUnA-13C
Conc 3.4029
Q 564.80>519.95 (-) 7.15e5



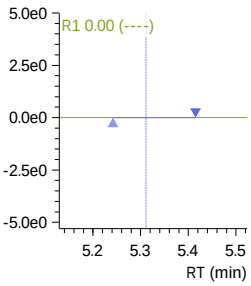
PFUnA-13C_IS
Conc 5.0000
ISTD 564.80>519.95 (-) 7.15e5



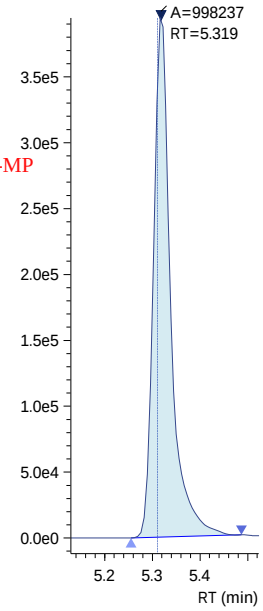
PFDoA
Conc 0.0086
R#1 0.00 (15.11)
Q 613.05>569.00 (-) 9.55e2



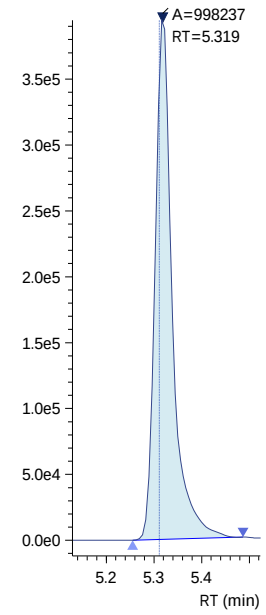
R1 613.05>169.00 (-) 0.00e0



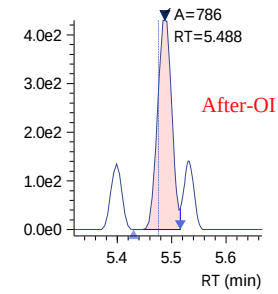
PFDoA-13C
Conc 1.7060
Q 614.80>569.95 (-) 3.95e5



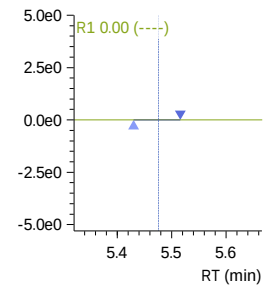
PFDoA-13C_IS
Conc 5.0000
ISTD 614.80>569.95 (-) 3.95e5



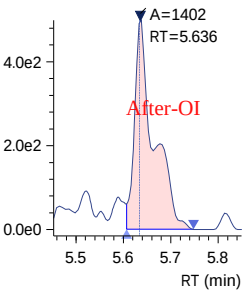
PFTrDA
Conc 0.0119
R#1 0.00 (14.19)
Q 663.00>618.90 (-) 4.30e2



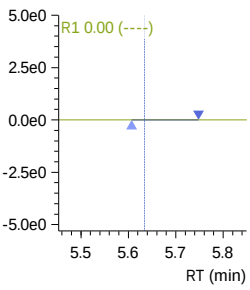
R1 662.90>169.00 (-) 0.00e0



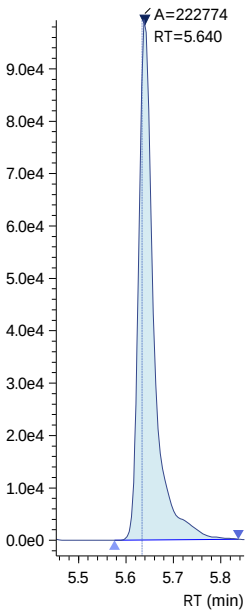
PFTeDA
Conc 0.0280
R#1 0.00 (14.98)
Q 713.00>669.00 (-) 4.99e2



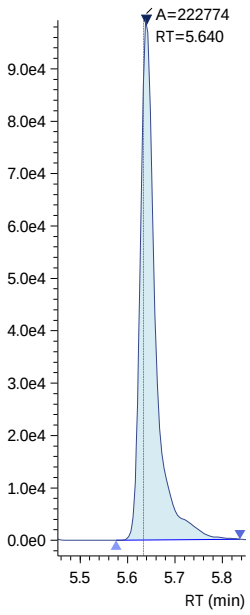
R1 713.00>169.10 (-) 0.00e0



PFTeDA-13C
Conc 0.5626
Q 714.70>669.90 (-) 9.93e4

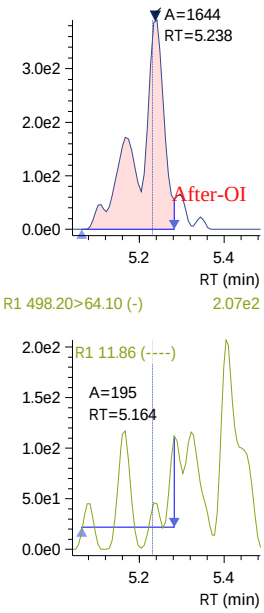


PFTeDA-13C_IS
Conc 5.0000
ISTD 714.70>669.90 (-) 9.93e4

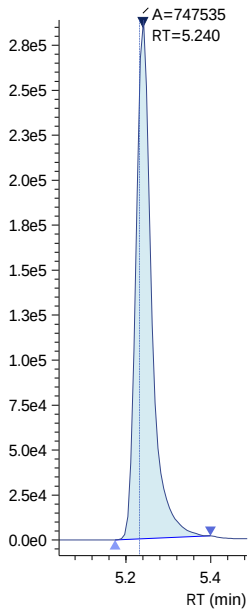


210823_032 (continued)

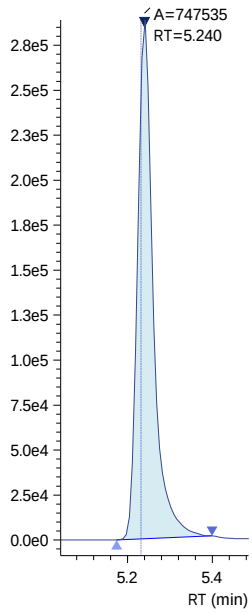
FOSA
Conc 0.0087
R#1 11.86 (4.89)
Q 498.20>78.00 (-) 3.91e2
R1 498.20>64.10 (-) 2.07e2



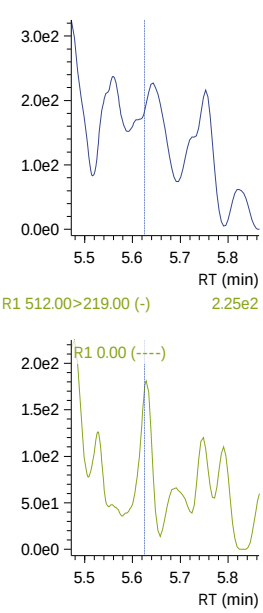
FOSA-13C
Conc 2.9645
Q 506.00>78.05 (-) 2.89e5



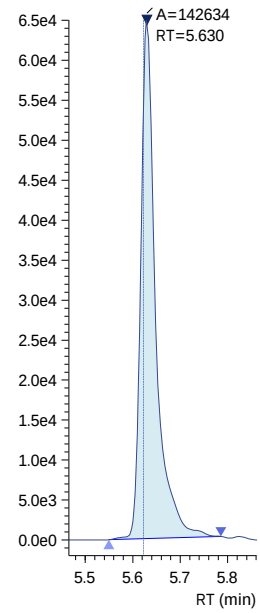
FOSA-13C_IS
Conc 5.0000
ISTD 506.00>78.05 (-) 2.89e5



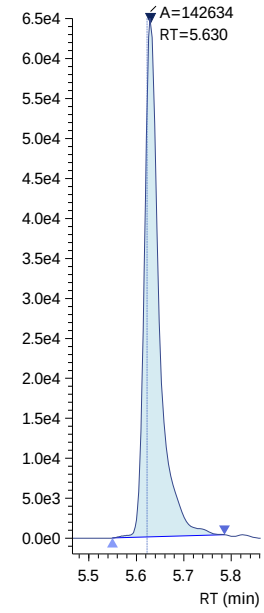
N-MeFOSA
Conc ----
R#1 0.00 (62.72)
Q 512.00>169.10 (-) 3.25e2
R1 512.00>219.00 (-) 2.25e2



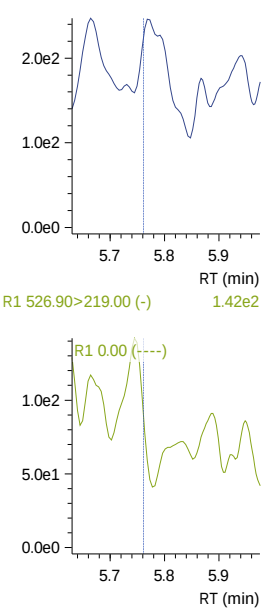
N-MeFOSA-d3
Conc 2.4327
Q 514.90>168.90 (-) 6.50e4



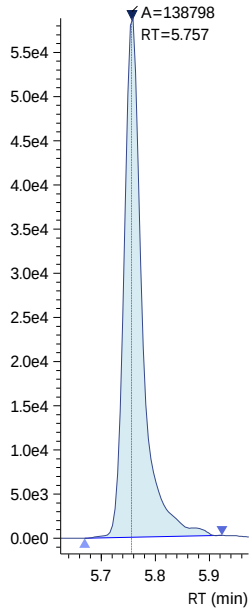
N-MeFOSA-d3_IS
Conc 5.0000
ISTD 514.90>168.90 (-) 6.50e4



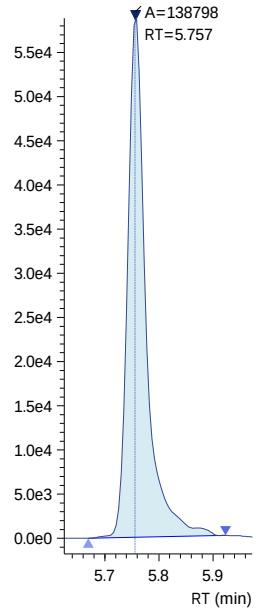
N-EtFOSA
Conc ----
R#1 0.00 (63.35)
Q 526.90>169.10 (-) 2.47e2
R1 526.90>219.00 (-) 1.42e2



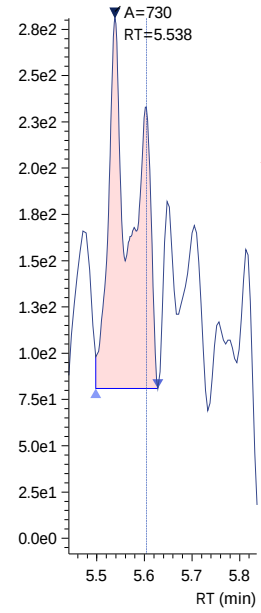
N-EtFOSA-d9
Conc 2.0835
Q 530.90>169.15 (-) 5.89e4



N-EtFOSA-d9_IS
Conc 5.0000
ISTD 530.90>169.15 (-) 5.89e4



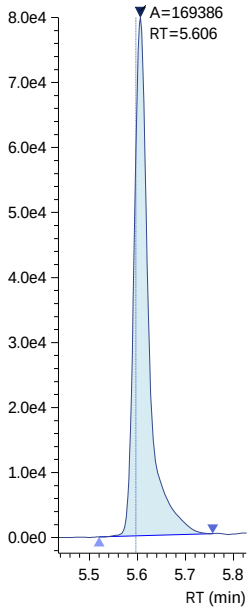
N-MeFOSE
Conc 0.0098
Q 616.00>59.00 (-) 2.81e2



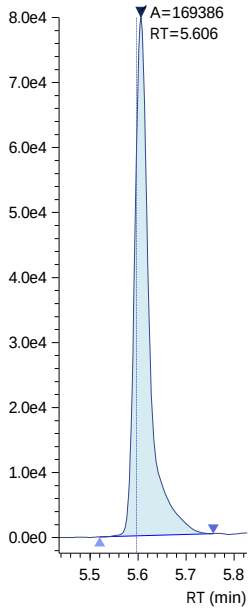
After-OI

210823_032 (continued)

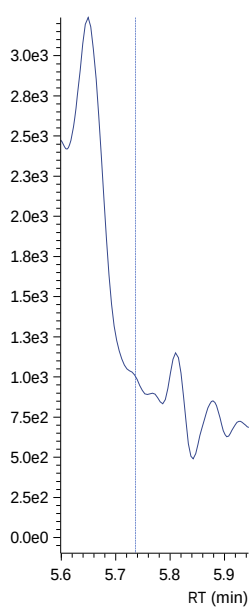
N-MeFOSE-d7
Conc 2.8889
Q 622.70>59.10 (-) 8.00e4



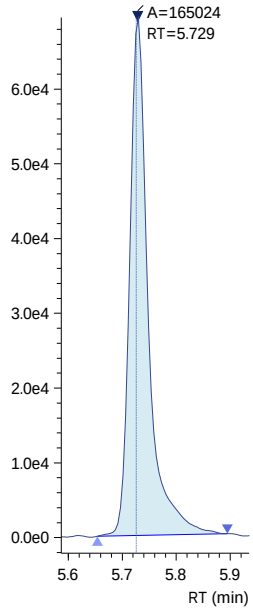
N-MeFOSE-d7_IS
Conc 5.0000
ISTD 622.70>59.10 (-) 8.00e4



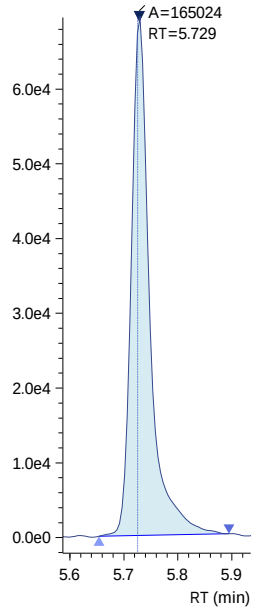
N-EtFOSE
Conc ----
Q 630.00>58.90 (-) 3.24e3



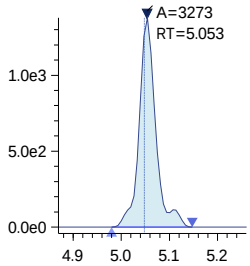
N-EtFOSE-d9
Conc 2.7185
Q 638.70>59.10 (-) 6.96e4



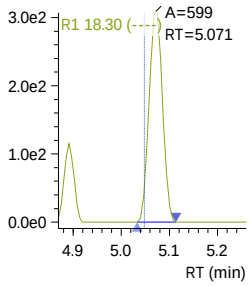
N-EtFOSE-d9_IS
Conc 5.0000
ISTD 638.70>59.10 (-) 6.96e4



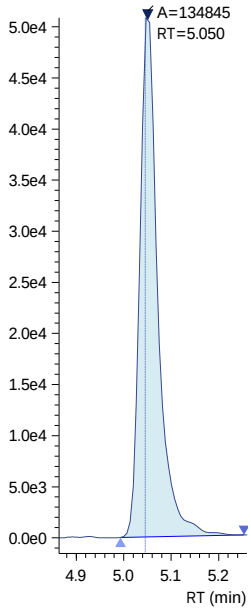
N-MeFOSAA
Conc 0.1735
R#1 18.30 (35.26)
Q 570.20>419.00 (-) 1.38e3



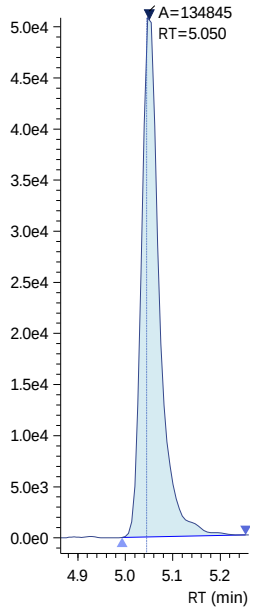
R1 570.20>512.00 (-) 3.07e2



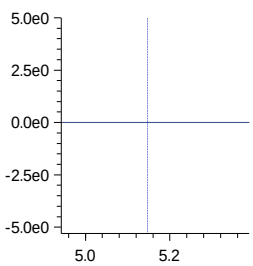
N-MeFOSAA-d3
Conc 2.8198
Q 572.80>419.05 (-) 5.09e4



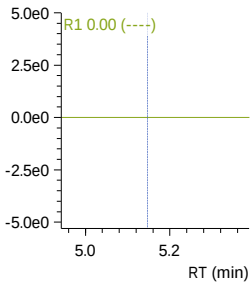
N-MeFOSAA-d3_IS
Conc 5.0000
ISTD 572.80>419.05 (-) 5.09e4



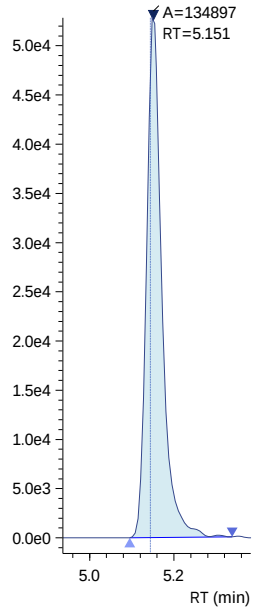
N-EtFOSAA
Conc ----
R#1 0.00 (77.25)
Q 584.20>418.95 (-) 0.00e0



R1 584.20>526.10 (-) 0.00e0

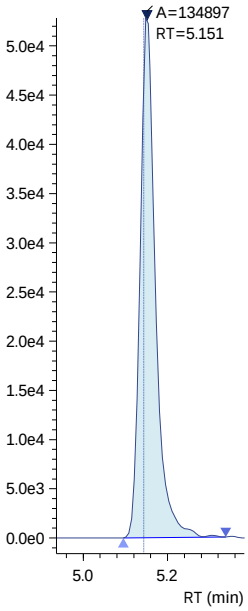


N-EtFOSAA-d5
Conc 3.0302
Q 588.80>419.00 (-) 5.28e4

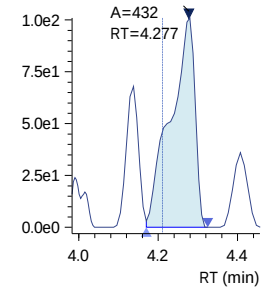


210823_032 (continued)

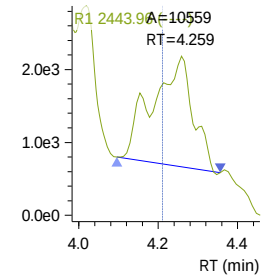
N-EtFOSAA-d5_IS
Conc 5.0000
ISTD 588.80>419.00 (-) 5.28e4



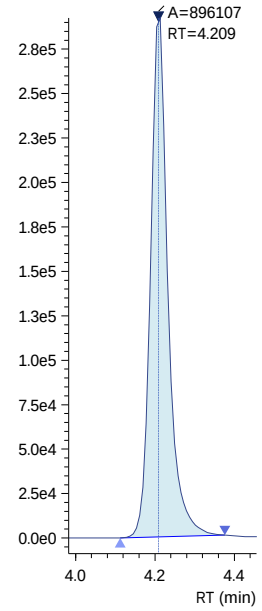
4_2-FTS_1
Conc 0.0024
R#1 2443.96 (39.85)
Q 327.00>307.05 (-) 1.01e2



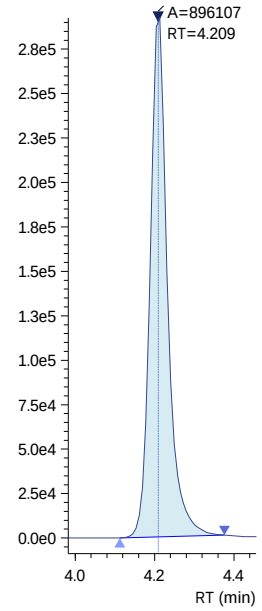
R1 327.00>81.10 (-) 2.87e3



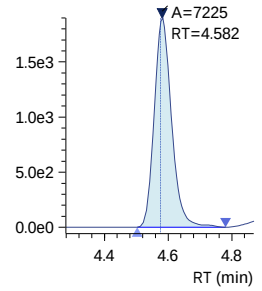
4_2-FTS-13C
Conc 9.1860
Q 328.80>309.05 (-) 2.93e5



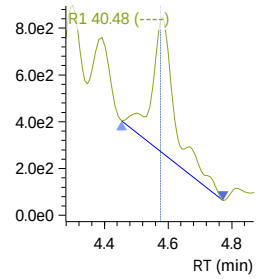
4_2-FTS-13C_IS
Conc 5.0000
ISTD 328.80>309.05 (-) 2.93e5



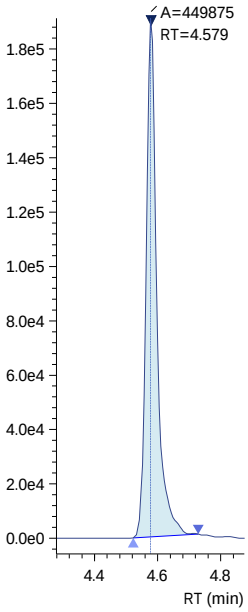
6_2-FTS_1
Conc 0.0577
R#1 40.48 (29.95)
Q 427.00>407.00 (-) 1.90e3



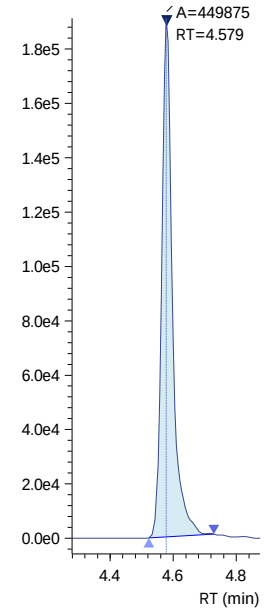
R1 427.00>80.90 (-) 8.95e2



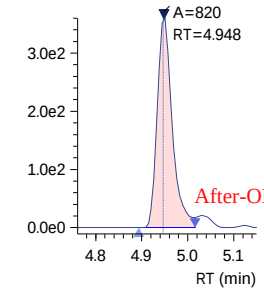
6_2-FTS-13C
Conc 4.8816
Q 428.90>409.00 (-) 1.91e5



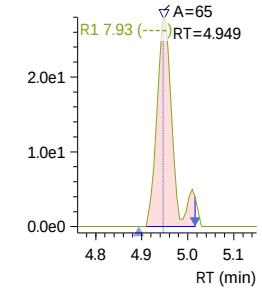
6_2-FTS-13C_IS
Conc 5.0000
ISTD 428.90>409.00 (-) 1.91e5



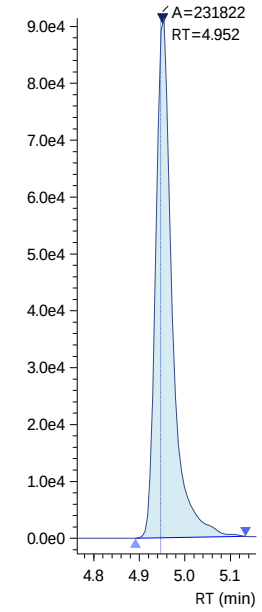
8_2-FTS_1
Conc 0.0152
R#1 7.93 (9.42)
Q 527.10>506.90 (-) 3.60e2



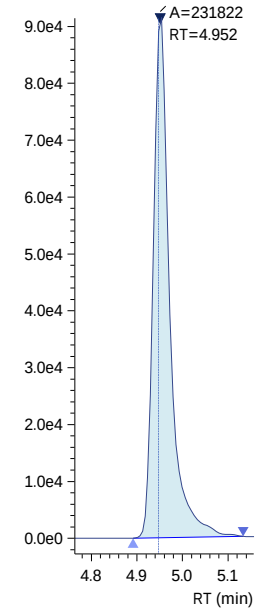
R1 527.20>487.00 (-) 2.80e1



8_2-FTS-13C
Conc 4.7261
Q 528.80>509.00 (-) 9.14e4

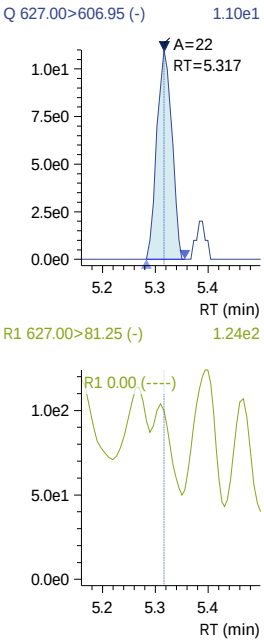


8_2-FTS-13C_IS
Conc 5.0000
ISTD 528.80>509.00 (-) 9.14e4

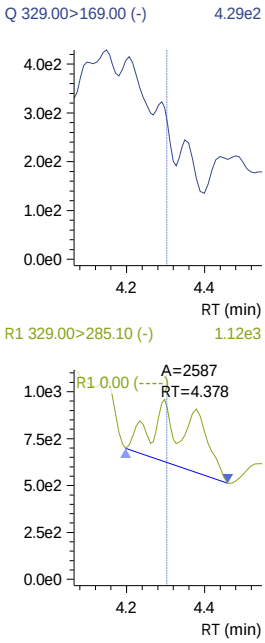


210823_032 (continued)

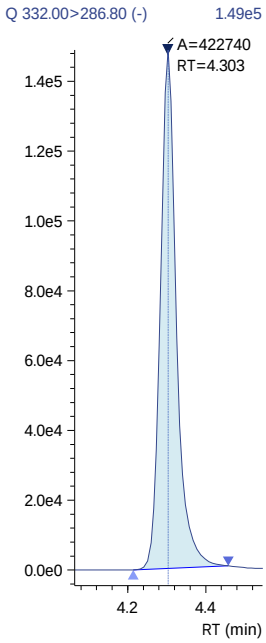
10_2-FtS_1
Conc 0.0006
R#1 0.00 (49.86)



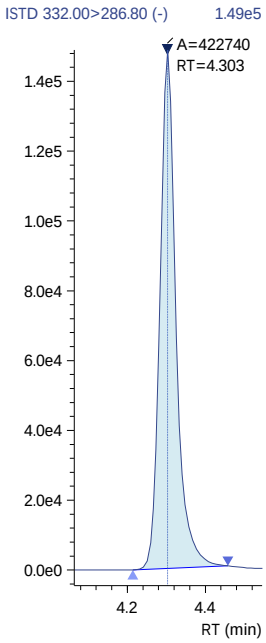
HPFO_DA
Conc ----
R#1 0.00 (101.52)



HFPO_DA-13C
Conc 3.8542



HFPO_DA-13C_IS
Conc 5.0000

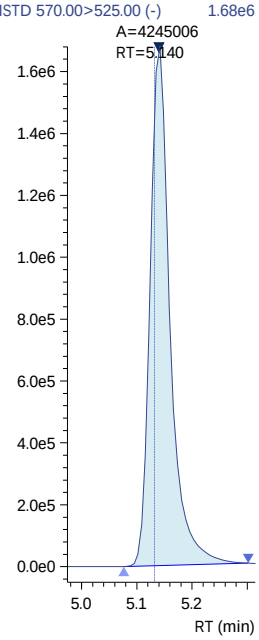


Insight Report
Before Manual Integration
Printed 8/27/2021 15:36:01

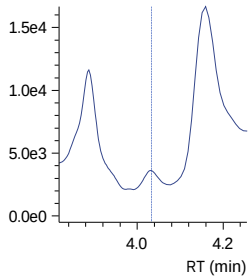
210823_032

Sample ID: K2109142-001
Date Acquired: 8/23/2021 9:42:18 PM
Acquired by: System Administrator
Data File: 210823_032
Vial: 18 | Inj. Volume: 15.0000uL | Tray: 3

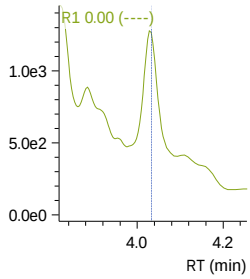
13C7-PFUnDA_IS
Conc 5.0000
ISTD 570.00>525.00 (-) 1.68e6
A=4245006
RT=5.140



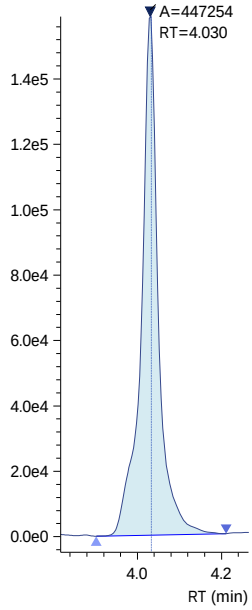
PFBS_1
Conc ----
R#1 0.00 (47.76)
Q 299.00>80.00 (-) 1.67e4



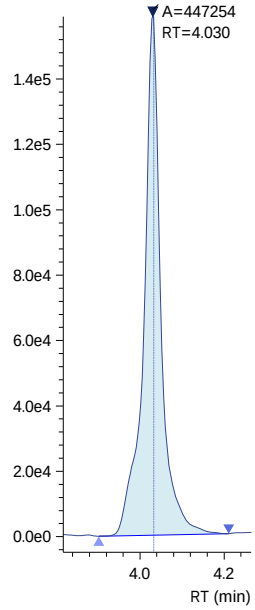
R1 298.80>99.00 (-) 1.45e3



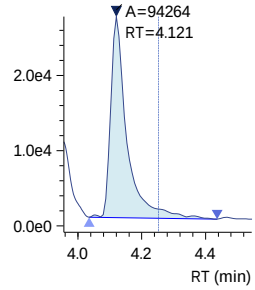
PFBS-13C
Conc 5.1035
Q 301.80>80.00 (-) 1.59e5
A=447254
RT=4.030



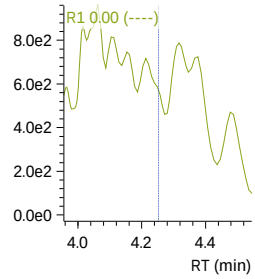
PFBS-13C_IS
Conc 5.0000
ISTD 301.80>80.00 (-) 1.59e5
A=447254
RT=4.030



PFPeS
Conc 1.0740
R#1 0.00 (136.08)
Q 349.00>99.00 (-) 2.78e4
A=94264
RT=4.121

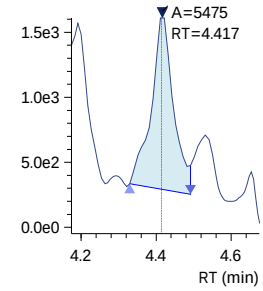


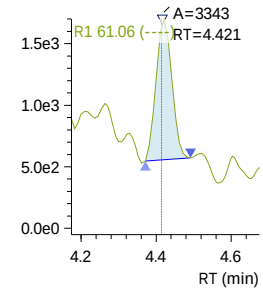
R1 349.00>79.95 (-) 9.59e2

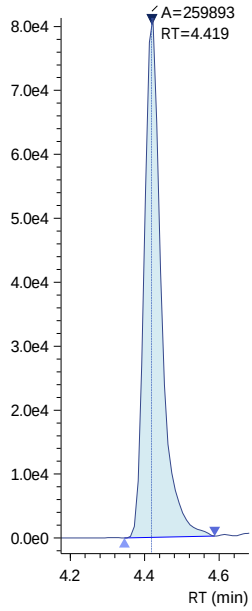


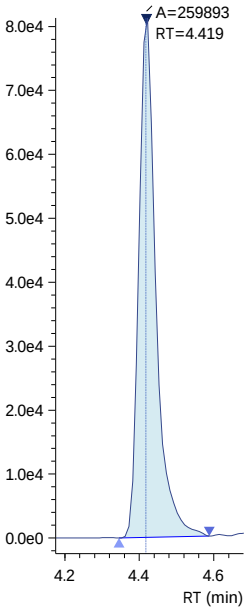
Insight Report
Before Manual Integration
Printed 8/27/2021 15:36:01

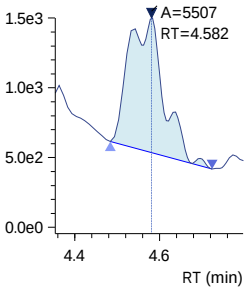
210823_032 (continued)

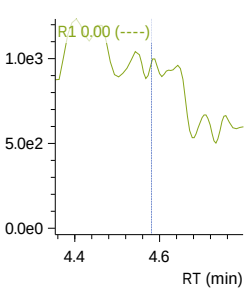
PFHxS_1
Conc 0.0419
R#1 61.06 (71.26)
Q 399.00>80.00 (-) 1.61e3


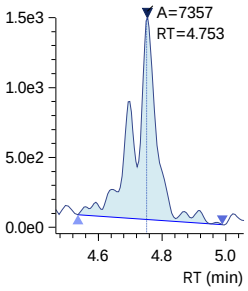
R1 399.00>99.00 (-) 1.70e3


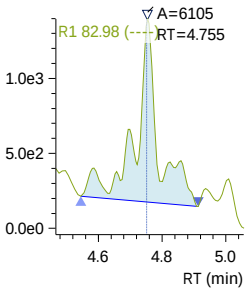
PFHxS-18O
Conc 4.3493
Q 402.70>84.05 (-) 8.13e4


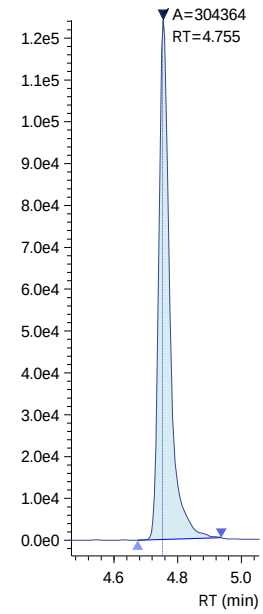
PFHxS-18O_IS
Conc 5.0000
ISTD 402.70>84.05 (-) 8.13e4


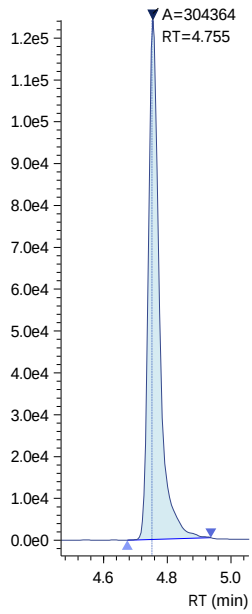
PFHpS_1
Conc 0.0505
R#1 0.00 (53.84)
Q 449.00>80.15 (-) 1.50e3


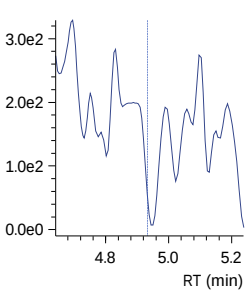
R1 449.00>99.20 (-) 1.23e3


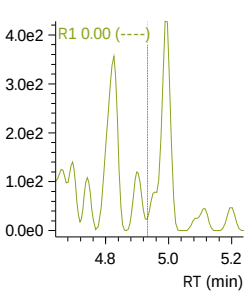
PFOS_1
Conc 0.1285
R#1 82.98 (86.72)
Q 499.00>80.00 (-) 1.50e3


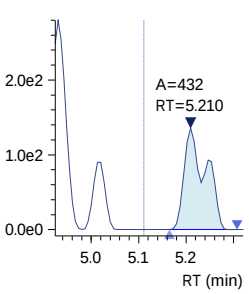
R1 499.00>99.00 (-) 1.40e3


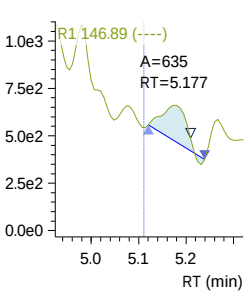
PFOS-13C
Conc 4.0983
Q 502.80>80.05 (-) 1.24e5


PFOS-13C_IS
Conc 5.0000
ISTD 502.80>80.05 (-) 1.24e5


PFNS
Conc ----
R#1 0.00 (129.18)
Q 549.00>99.00 (-) 3.29e2


R1 549.00>79.95 (-) 4.28e2


PFDS_1
Conc 0.0058
R#1 146.89 (90.77)
Q 599.00>79.90 (-) 2.80e2


R1 599.00>99.10 (-) 1.10e3


PFBA
Conc 0.9933
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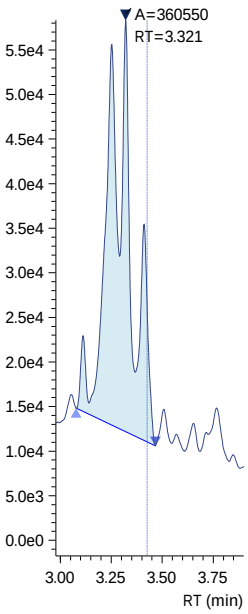
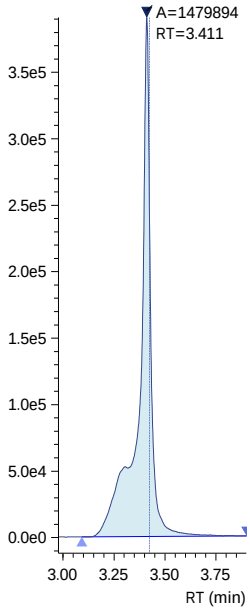
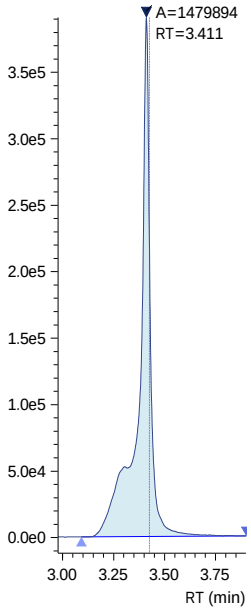


210823_032 (continued)

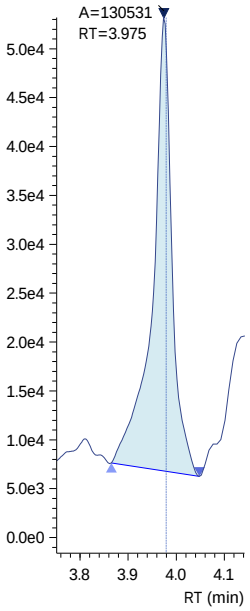
PFBA-13C
Conc 4.2684
Q 216.90>172.15 (-) 3.91e5



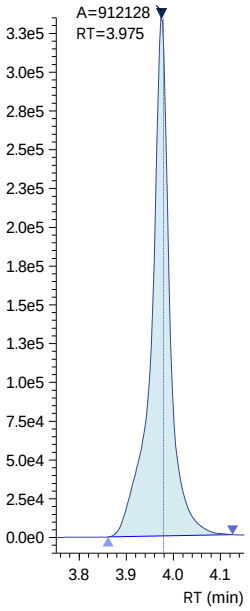
PFBA-13C_IS
Conc 5.0000
ISTD 216.90>172.15 (-) 3.91e5



PFPeA
Conc 0.2250
Q 263.05>219.10 (-) 5.32e4



PFPeA-13C
Conc 3.9920
Q 267.90>223.00 (-) 3.35e5



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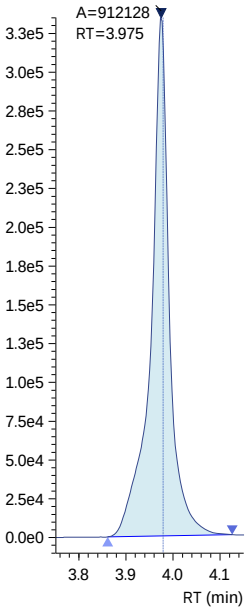
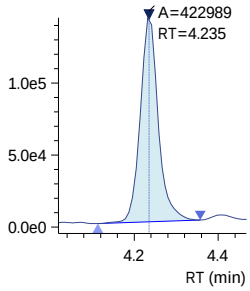
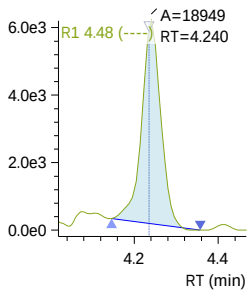
Conc 5.0000
ISTD 267.90>223.00 (-) 3.35e5



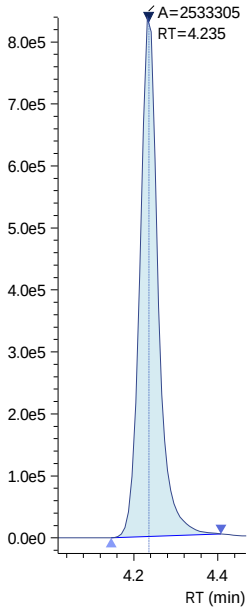
PFHxA
Conc 0.6162
R#1 4.48 (4.17)
Q 313.00>269.00 (-) 1.45e5



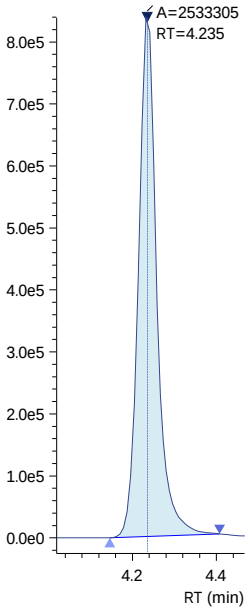
R1 313.00>119.10 (-) 6.20e3



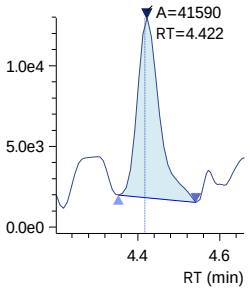
PFHxA-13C
Conc 4.0268
Q 314.90>270.10 (-) 8.39e5



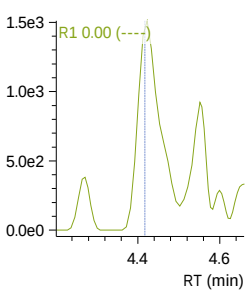
PFHxA-13C_IS
Conc 5.0000
ISTD 314.90>270.10 (-) 8.39e5



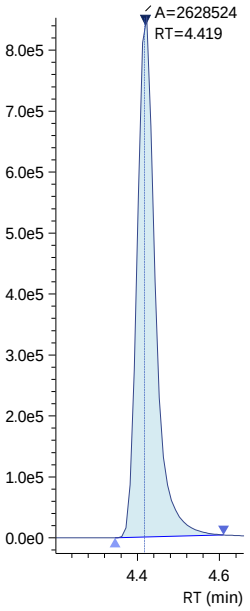
PFHpA
Conc 0.0728
R#1 0.00 (26.04)
Q 362.90>319.00 (-) 1.30e4



R1 362.90>169.00 (-) 1.51e3



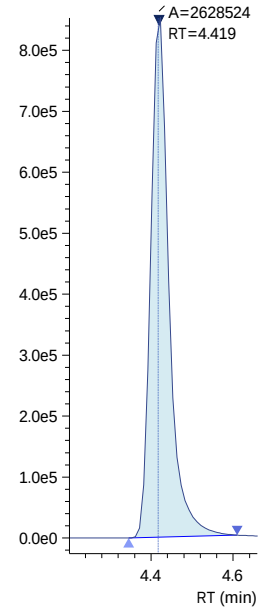
PFHpA-13C
Conc 4.1153
Q 366.90>322.10 (-) 8.53e5



Insight Report
Before Manual Integration
Printed 8/27/2021 15:36:01

210823_032 (continued)

PFHpA-13C_IS
Conc 5.0000
ISTD 366.90>322.10 (-) 8.53e5



PFOA
Conc 0.1701
R#1 31.15 (30.35)
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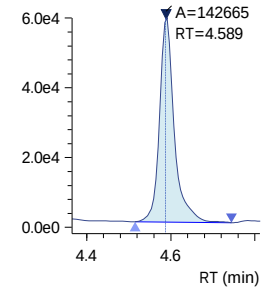
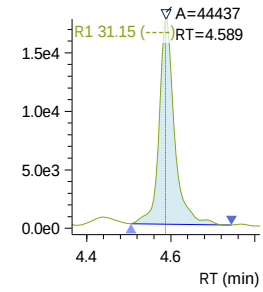


R1 413.00>169.10 (-) 1.79e4



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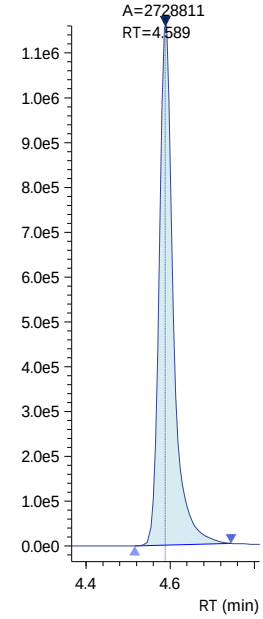
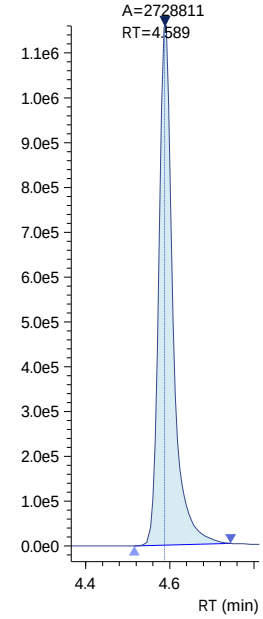
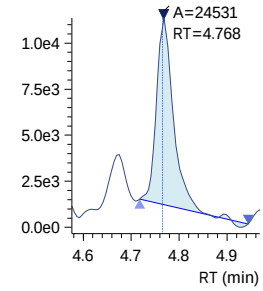
Conc 3.8377
Q 416.80>372.05 (-) 1.16e6



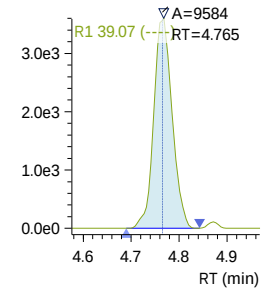
PFOA-13C_IS
Conc 5.0000
ISTD 416.80>372.05 (-) 1.16e6



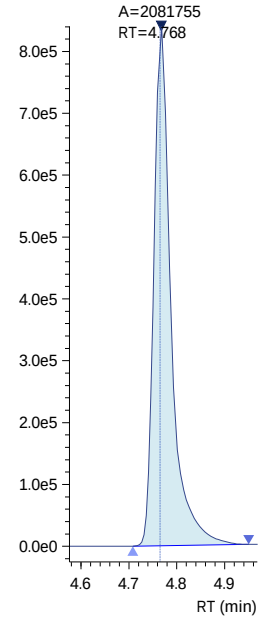
PFNA
Conc 0.0477
R#1 39.07 (22.35)
Q 463.00>418.90 (-) 1.14e4



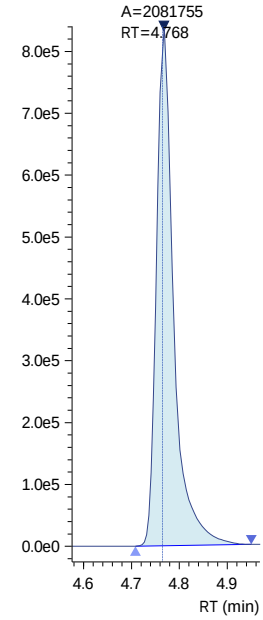
R1 463.00>219.00 (-) 3.59e3



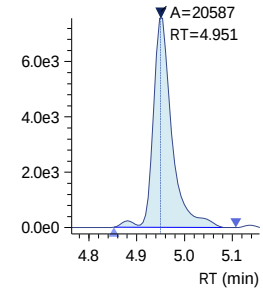
PFNA-13C
Conc 3.8380
Q 467.80>423.00 (-) 8.41e5



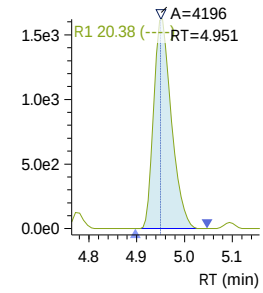
PFNA-13C_IS
Conc 5.0000
ISTD 467.80>423.00 (-) 8.41e5



PFDA
Conc 0.0462
R#1 20.38 (18.73)
Q 513.00>468.80 (-) 7.57e3



R1 513.00>219.10 (-) 1.62e3



PFDA-13C
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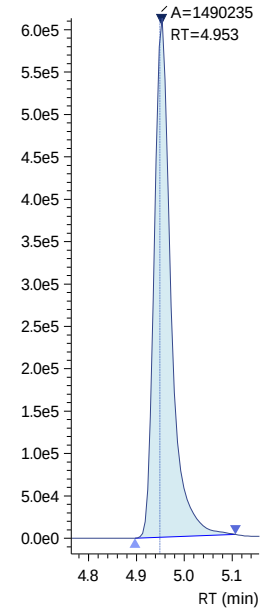
Q 514.80>469.95 (-) 6.14e5



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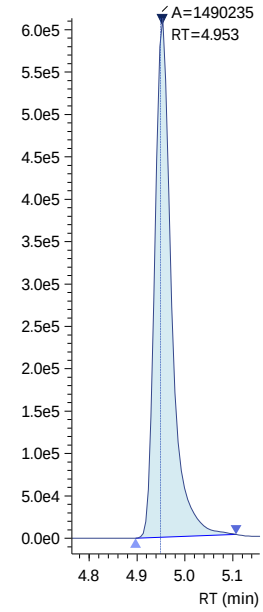
ISTD 514.80>469.95 (-) 6.14e5



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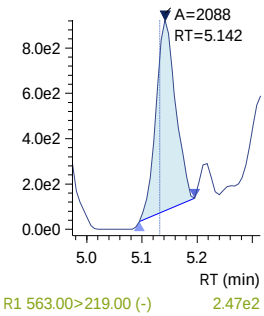
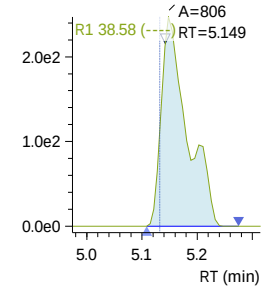
R#1 38.58 (11.60)
Q 563.00>518.90 (-) 9.24e2


R1 563.00>219.00 (-) 2.47e2


PFUnA-13C
Conc 3.4029
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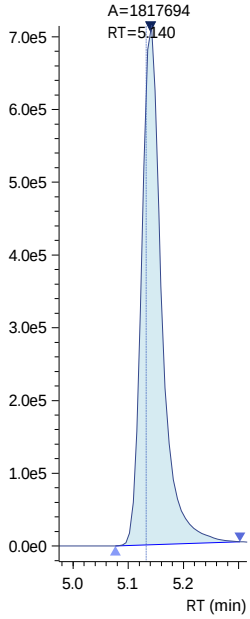

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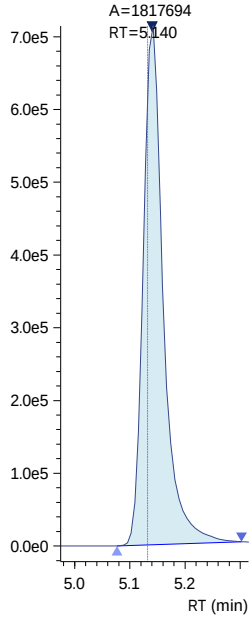
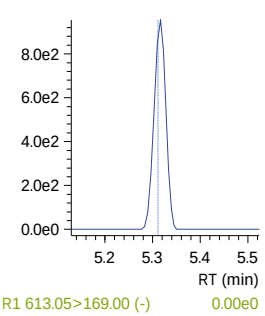
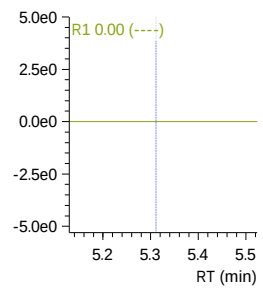
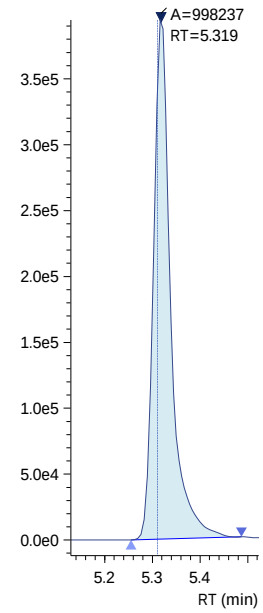
ISTD 564.80>519.95 (-) 7.15e5


PFDoA
Conc ----
R#1 0.00 (15.11)
Q 613.05>569.00 (-) 9.55e2


R1 613.05>169.00 (-) 0.00e0


PFDoA-13C
Conc 1.7060
Q 614.80>569.95 (-) 3.95e5


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Conc 5.0000
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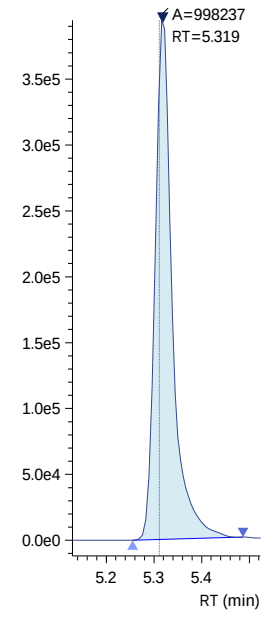

PFTrDA
Conc 0.0147
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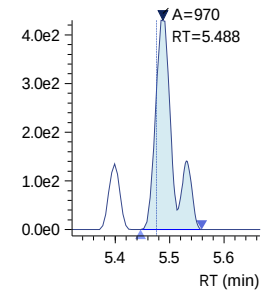
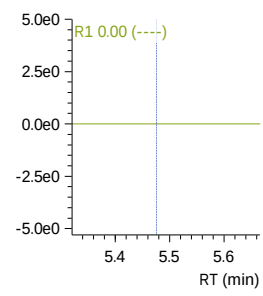
Q 663.00>618.90 (-) 4.30e2


R1 662.90>169.00 (-) 0.00e0


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Conc 0.0282
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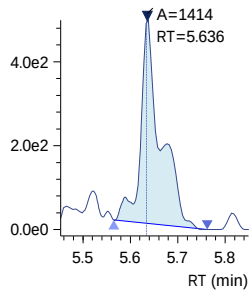
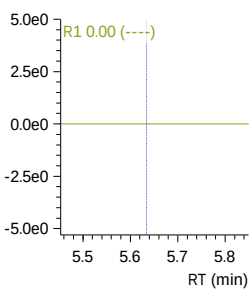
Q 713.00>669.00 (-) 4.99e2


R1 713.00>169.10 (-) 0.00e0


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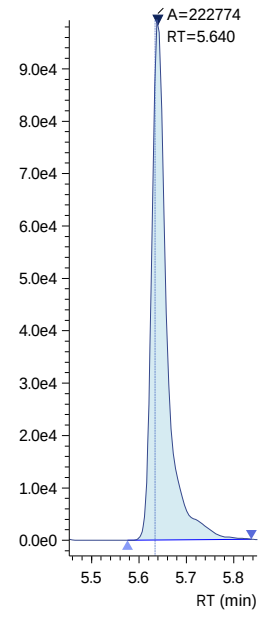
Conc 0.5626
Q 714.70>669.90 (-) 9.93e4


PFTeDA-13C_IS
Conc 5.0000
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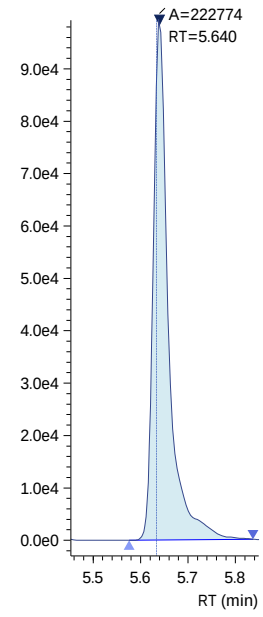

210823_032 (continued)

FOSA
Conc 0.0094
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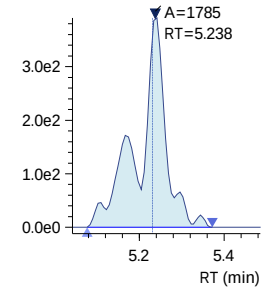
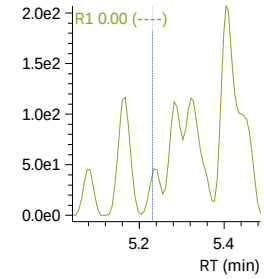
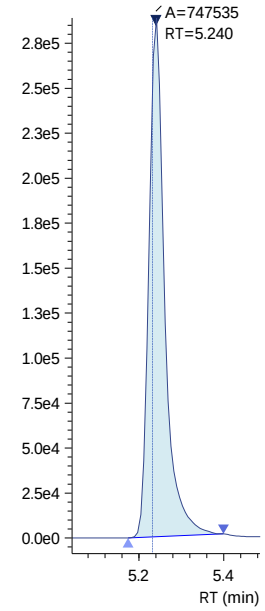
Q 498.20>78.00 (-) 3.91e2


R1 498.20>64.10 (-) 2.07e2


FOSA-13C
Conc 2.9645
Q 506.00>78.05 (-) 2.89e5


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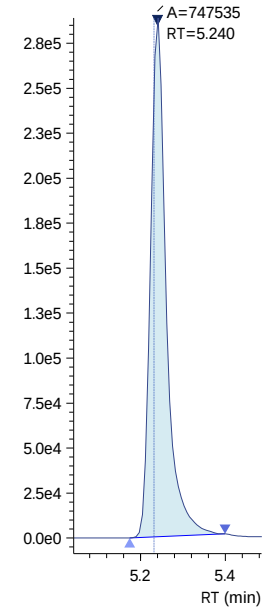
Conc 5.0000
ISTD 506.00>78.05 (-) 2.89e5


N-MeFOSA
Conc 0.0226
R#1 23.07 (62.72)
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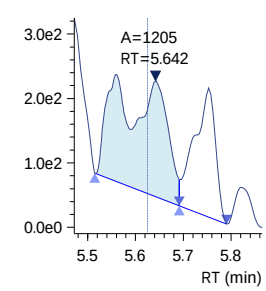
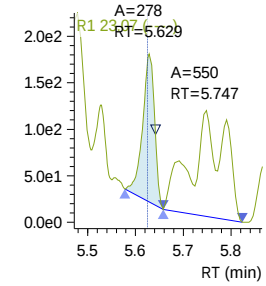


R1 512.00>219.00 (-) 2.25e2


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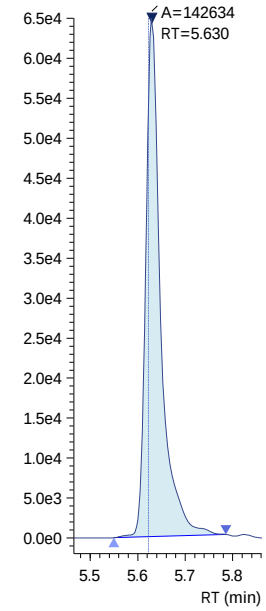
Conc 2.4327
Q 514.90>168.90 (-) 6.50e4


N-MeFOSA-d3_IS
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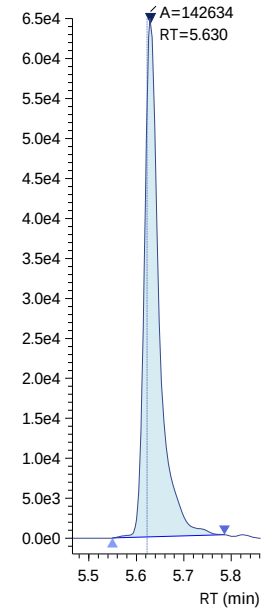
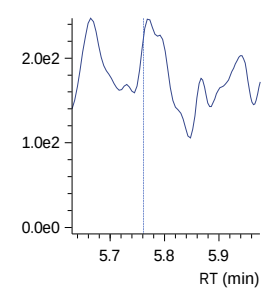
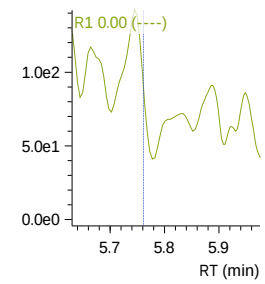
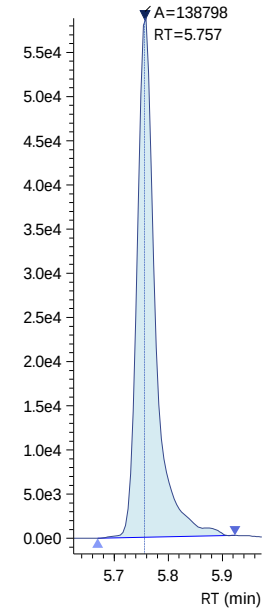


N-EtFOSA
Conc ----
R#1 0.00 (63.35)
Q 526.90>169.10 (-) 2.47e2


R1 526.90>219.00 (-) 1.42e2


N-EtFOSA-d9
Conc 2.0835
Q 530.90>169.15 (-) 5.89e4


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Conc 5.0000
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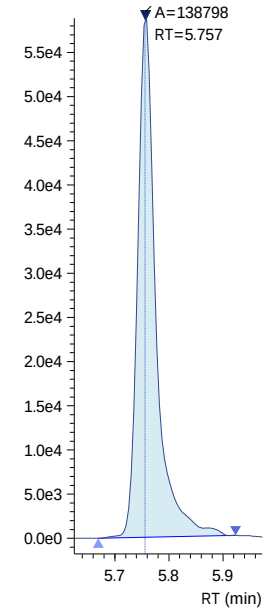
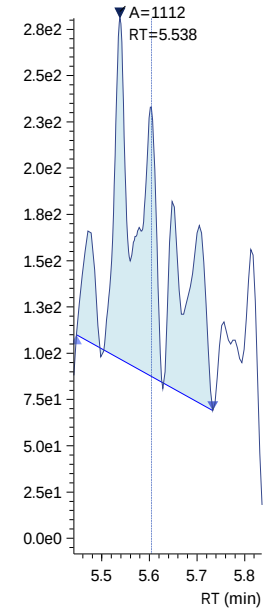
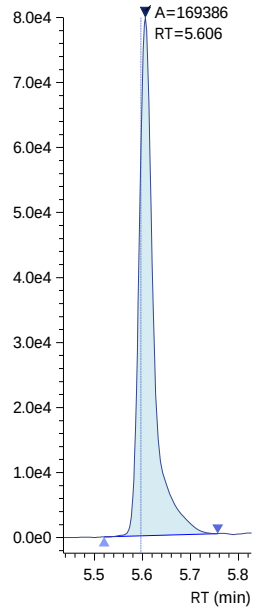


N-MeFOSE
Conc 0.0150
Q 616.00>59.00 (-) 2.81e2


210823_032 (continued)

N-MeFOSE-d7
Conc 2.8889
Q 622.70>59.10 (-) 8.00e4



N-MeFOSE-d7_IS
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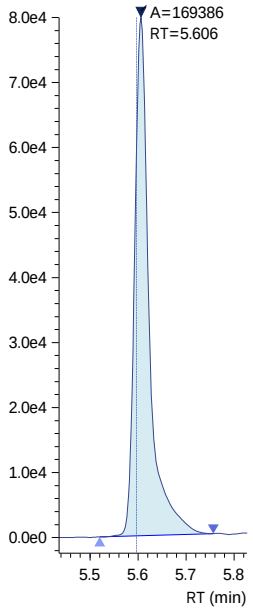
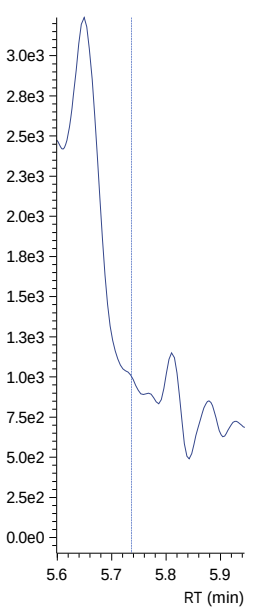
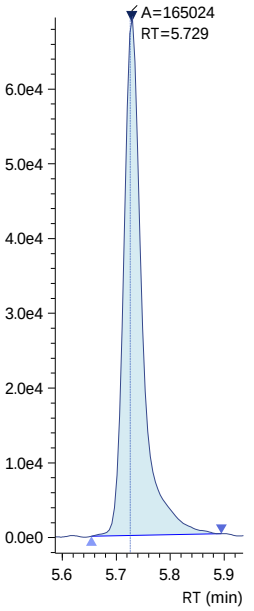
ISTD 622.70>59.10 (-) 8.00e4



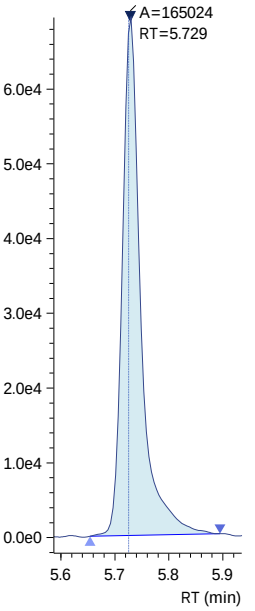
N-EtFOSE
Conc ----
Q 630.00>58.90 (-) 3.24e3



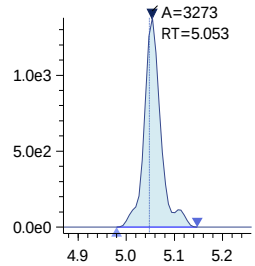
N-EtFOSE-d9
Conc 2.7185
Q 638.70>59.10 (-) 6.96e4



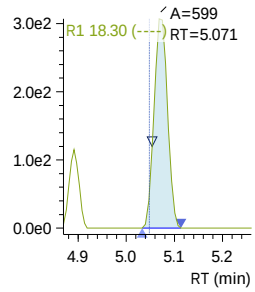
N-EtFOSE-d9_IS
Conc 5.0000
ISTD 638.70>59.10 (-) 6.96e4



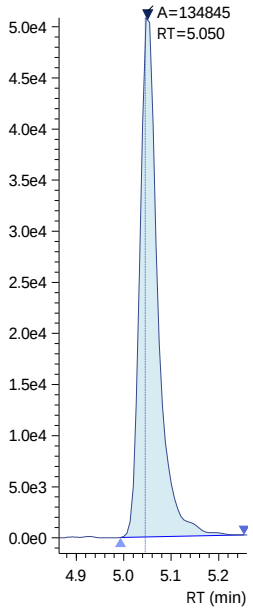
N-MeFOSAA
Conc 0.1735
R#1 18.30 (35.26)
Q 570.20>419.00 (-) 1.38e3



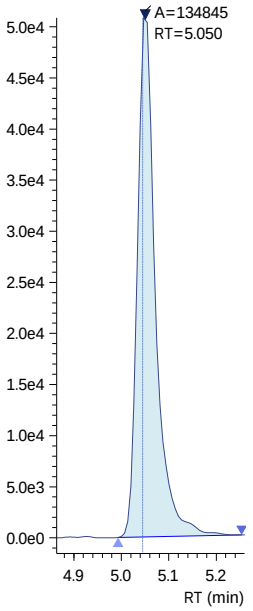
R1 570.20>512.00 (-) 3.07e2



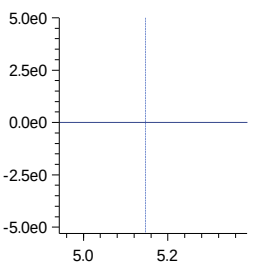
N-MeFOSAA-d3
Conc 2.8198
Q 572.80>419.05 (-) 5.09e4



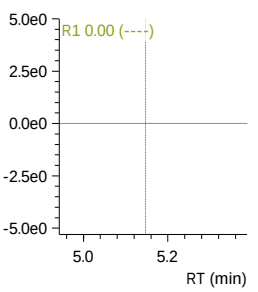
N-MeFOSAA-d3_IS
Conc 5.0000
ISTD 572.80>419.05 (-) 5.09e4



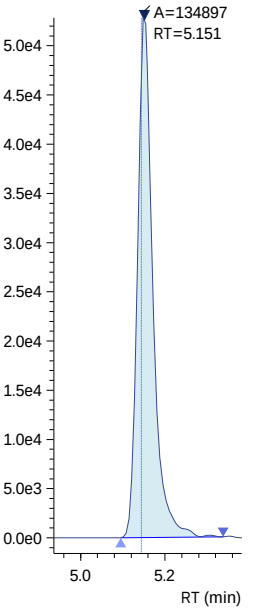
N-EtFOSAA
Conc ----
R#1 0.00 (77.25)
Q 584.20>418.95 (-) 0.00e0



R1 584.20>526.10 (-) 0.00e0



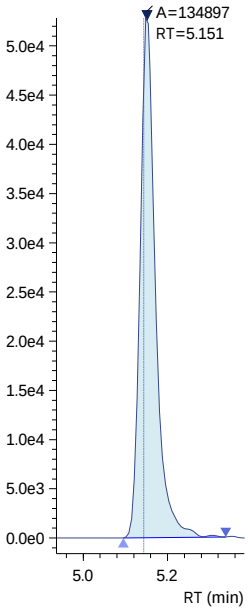
N-EtFOSAA-d5
Conc 3.0302
Q 588.80>419.00 (-) 5.28e4



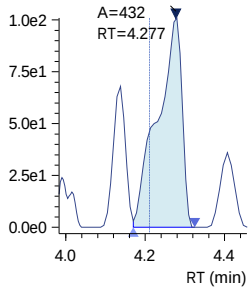
Insight Report
Before Manual Integration
Printed 8/27/2021 15:36:01

210823_032 (continued)

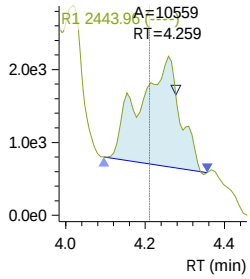
N-EtFOSAA-d5_IS
Conc 5.0000
ISTD 588.80>419.00 (-) 5.28e4



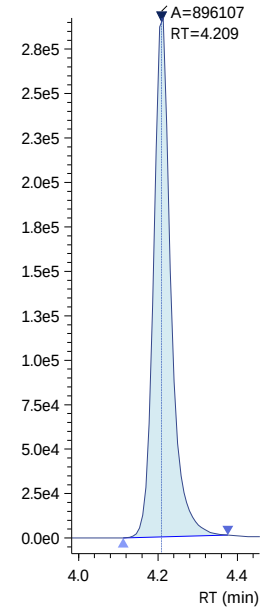
4_2-FTS_1
Conc 0.0024
R#1 2443.96 (39.85)
Q 327.00>307.05 (-) 1.01e2



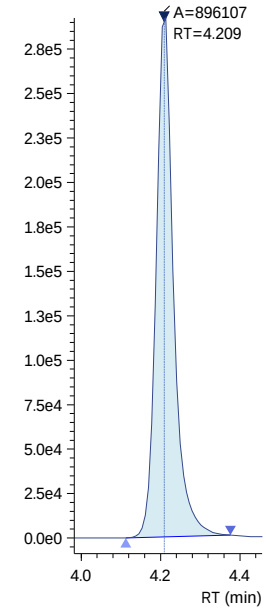
R1 327.00>81.10 (-) 2.87e3



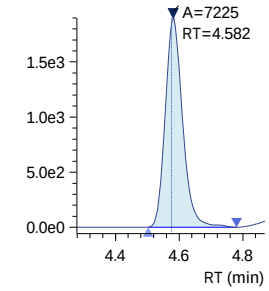
4_2-FTS-13C
Conc 9.1860
Q 328.80>309.05 (-) 2.93e5



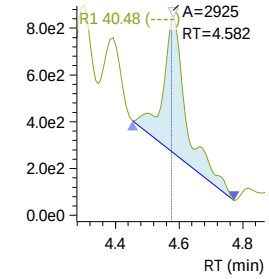
4_2-FTS-13C_IS
Conc 5.0000
ISTD 328.80>309.05 (-) 2.93e5



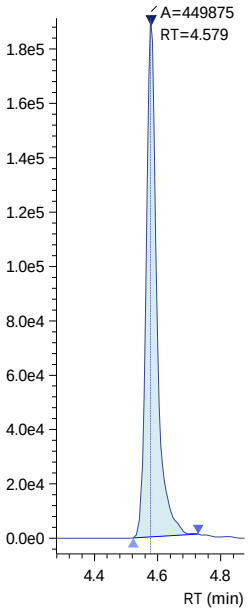
6_2-FTS_1
Conc 0.0577
R#1 40.48 (29.95)
Q 427.00>407.00 (-) 1.90e3



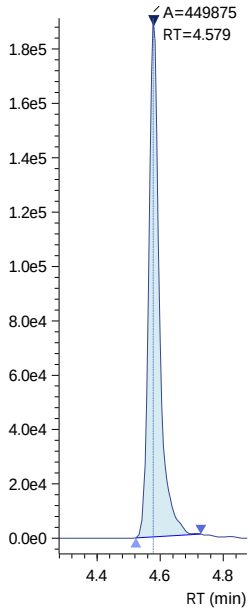
R1 427.00>80.90 (-) 8.95e2



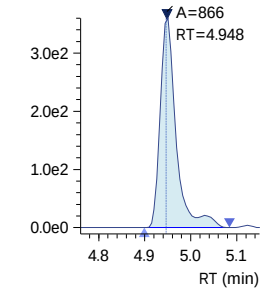
6_2-FTS-13C
Conc 4.8816
Q 428.90>409.00 (-) 1.91e5



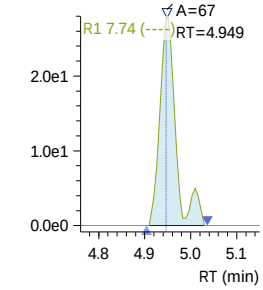
6_2-FTS-13C_IS
Conc 5.0000
ISTD 428.90>409.00 (-) 1.91e5



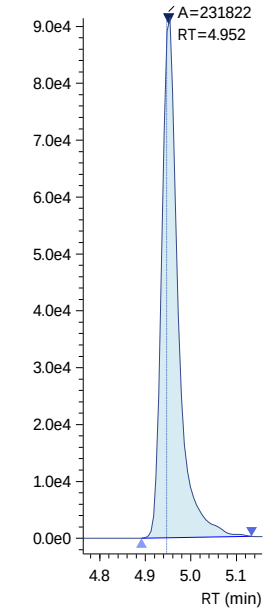
8_2-FTS_1
Conc 0.0161
R#1 7.74 (9.42)
Q 527.10>506.90 (-) 3.60e2



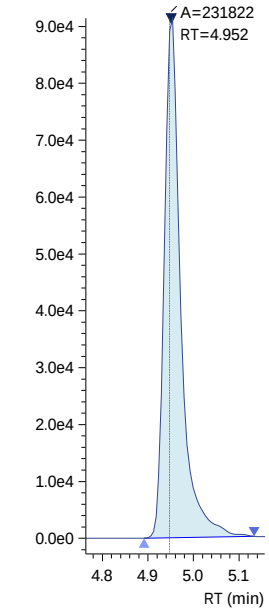
R1 527.20>487.00 (-) 2.80e1



8_2-FTS-13C
Conc 4.7261
Q 528.80>509.00 (-) 9.14e4

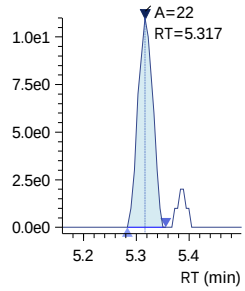


8_2-FTS-13C_IS
Conc 5.0000
ISTD 528.80>509.00 (-) 9.14e4

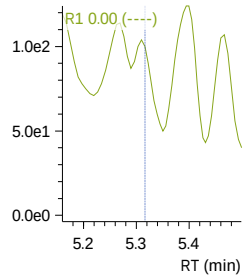


210823_032 (continued)

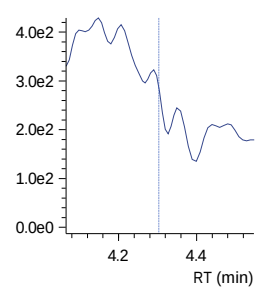
10_2-FtS_1
Conc 0.0006
R#1 0.00 (49.86)
Q 627.00>606.95 (-) 1.10e1



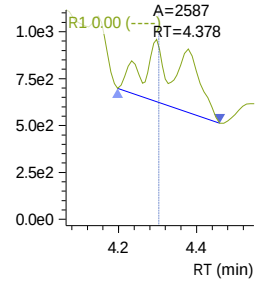
R1 627.00>81.25 (-) 1.24e2



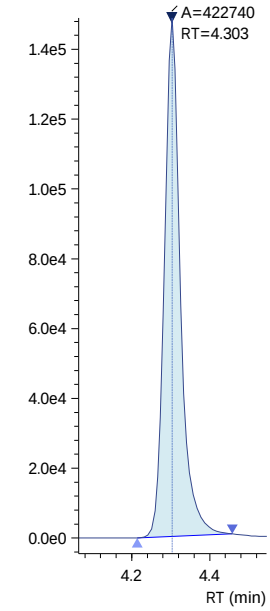
HPFO_DA
Conc ----
R#1 0.00 (101.52)
Q 329.00>169.00 (-) 4.29e2



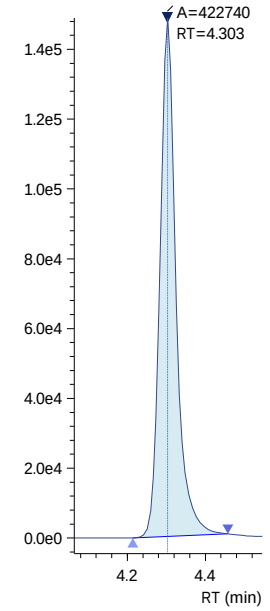
R1 329.00>285.10 (-) 1.12e3



HFPO_DA-13C
Conc 3.8542
Q 332.00>286.80 (-) 1.49e5



HFPO_DA-13C_IS
Conc 5.0000
ISTD 332.00>286.80 (-) 1.49e5



1st UA 09/15/21
2nd 09/16/21

Validation Report

Data File: J:\LCMS06\Data\210914_B1\210914_022
Lab ID: K2109142-002
RunType: N/A
Matrix: Soil

Date Acquired: 9/14/21 14:45
Batch ID: 738712
Analysis Method: PFC/537M/PFAS

Validations

Validation Categories	Pass	Fail
Preparation Hold Time	X	
Analytical Hold Time	X	
ICAL Analyte Recovery	X	
Second Source ICAL Verification	X	
Continuing Calibration Recovery		X
Lab Control Sample Recovery	X	
Duplicate Lab Control Sample Recovery	X	
Method Blank	X	
Method Blank Surrogates	X	
Internal Standards	X	
Surrogates		X
Std MRL Unsupported by ICAL	X	
Above Highest ICAL Level	X	

Analyte Exceptions

Exception Categories	Analyte Name	Result	Low Limit	High Limit	Corrective Action
Continuing Calibration Recovery	13C2-6:2 FTS	136	70	130	native in control
	13C2-8:2 FTS	148	70	130	native in control
Surrogates	13C3-PFBS	114	33	109	< MRL
	18O2-PFHxS	130	36	120	< MRL
	13C4-PFBA	130	34	116	< MRL
	13C8-FOSA	34	40	132	MS-DMS Confirms
	D3-MeFOSA	22	51	132	
	D5-EtFOSA	17	49	123	
	D7-MeFOSE	16	53	125	
	13C2-6:2 FTS	199	30	140	< MRL
	13C2-8:2 FTS	242	9	171	< MRL

Primary Review: _____

Secondary Review: _____

1st UA 09/15/21
2nd 09/16/21

Quantitation Report

Data File:	J:\LCMS06\Data\210914_B1\210914_022	**Instrument:**	K-LCMS-06
Acqu Date:	9/14/21 14:45	**Vial:**	8
Run Type:	N/A	**Dilution:**	1
Lab ID:	K2109142-002	**Raw Units:**	ng/mL

Bottle ID:	K2109142-002.02	**Tier:**	IV	**Matrix:**	Soil
Prod Code:	PFAS	**Collect Date:**	8/5/21	**Receive Date:**	8/6/21

Analysis Lot:	738712	**Prep Lot:**	385318	**Report Group:**	K2109142
Analysis	PFC/537M	**Prep Method:**	ALS SOP		
		Prep Date:	8/31/21		

Title:	Per- and Polyfluoroalkyl Substances (PFAS) by LC/MS/MS	**Calibration ID:**	KC2100481
		Report List ID:	19837

Internal Standard Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	Area Criteria
13C7-PFUnDA	5.117	-0.01	3872869	5.0000	OK

Surrogate Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	% Rec		% Rec Criteria	Rpt?
13C3-PFBS	4.023	-0.01	479465	5.6941	114	*	33 - 109	Y
18O2-PFHxS	4.409	0.00	388910	6.4754	130	*	36 - 120	Y
13C4-PFOS	4.742	0.00	464447	5.6589	113		32 - 130	Y
13C4-PFBA	3.393	-0.01	1958727	6.4839	130	*	34 - 116	Y
13C5-PFPeA	3.967	-0.01	997142	5.7756	116		39 - 133	Y
13C2-PFHxA	4.227	0.00	2953725	6.0293	121		32 - 136	Y
13C4-PFHpA	4.409	0.00	2674979	6.0209	120		36 - 133	Y
13C4-PFOA	4.580	0.00	3090038	5.2025	104		31 - 134	Y
13C5-PFNA	4.755	0.00	3131432	6.1193	122		27 - 133	Y
13C2-PFDA	4.942		2262635	6.3596	127		30 - 137	Y
13C2-PFUnDA	5.117	-0.01	2552691	4.7584	95		32 - 146	Y
13C2-PFDoDA	5.280	-0.01	2867318	4.8457	97		36 - 136	Y
13C2-PFTeDA	5.583	-0.01	2209012	3.7207	74		39 - 138	Y
13C8-FOSA	5.224	0.00	424641	1.7238	34	*	40 - 132	Y
D3-MeFOSA	5.603	+0.01	61988	1.1215	22	*	51 - 132	Y
D5-EtFOSA	5.718	0.00	53530	0.8313	17	*	49 - 123	Y
D7-MeFOSE	5.573	0.00	69732	0.8193	16	*	53 - 125	Y
D9-EtFOSE	5.688	0.00	239555	2.9722	59		45 - 121	Y
13C2-6:2 FTS	4.571	0.00	770001	9.9451	199	*	30 - 140	Y
13C2-8:2 FTS	4.941		681874	12.1148	242	*	9 - 171	Y

Target Compounds

Final Conc.Units: ng/g

Parameter Name	RT	RT Dev	Response	Solution Conc	Final Conc	Q	Rpt?

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

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1st UA 09/15/21
2nd 09/16/21

Data File:	J:\LCMS06\Data\210914_B1\210914_022	**Instrument:**	K-LCMS-06
Acqu Date:	9/14/21 14:45	**Vial:**	8
Run Type:	N/A	**Dilution:**	1
Lab ID:	K2109142-002	**Raw Units:**	ng/mL

Target Compounds

Final Conc.Units: ng/g

Parameter Name	RT	RT Dev	Response	Solution Conc	Final Conc	Q	Rpt?
Perfluorobutane sulfonic acid (PFBS)	0		0	0	0	U	Y
Perfluorohexane sulfonic acid (PFHxS)	4.413	+0.00	2789	0.0010	0.036	U	Y
Perfluoroheptane sulfonic acid (PFHpS)	0		0	0	0	U	Y
Perfluorooctane sulfonic acid (PFOS)	4.743	0.00	7393	0.0851	3.1	J	Y
Perfluorodecane sulfonic acid (PFDS)	0		0	0	0	U	Y
Perfluorobutanoic acid (PFBA)	0		0	0	0	U	Y
Perfluoropentanoic acid (PFPeA)	3.964	-0.01	16336	-0.0078	0	U	Y
Perfluorohexanoic acid (PFHxA)	4.225	0.00	28752	0.0373	1.3	U	Y
Perfluoroheptanoic acid (PFHpA)	4.372	-0.04	147564	0.2287	8.3		Y
Perfluorooctanoic acid (PFOA)	4.580	0.00	14497	0.0171	0.62	J	Y
Perfluorononanoic acid (PFNA)	4.764	+0.01	20438	0.0316	1.1	U	Y
Perfluorodecanoic acid (PFDA)	4.942	0.00	24914	0.0391	1.4	J	Y
Perfluoroundecanoic acid (PFUnDA)	5.118	0.00	13429	0.0238	0.86	J	Y
Perfluorododecanoic acid (PFDoDA)	5.277	-0.01	9934	0.0195	0.70	U	Y
Perfluorotridecanoic acid (PFTrDA)	5.439	-0.01	4968	0.0110	0.40	U	Y
Perfluorotetradecanoic acid (PFTeDA)	5.586	-0.01	7284	0.0149	0.54	U	Y
Perfluorooctane sulfonamide (FOSA)	5.228	+0.00	1249	0.0123	0.44	J	Y
N-Methyl perfluorooctane sulfonamide (MeFOSA)	0		0	0	0	U	Y
N-Ethyl perfluorooctane sulfonamide (EtFOSA)	0		0	0	0	U	Y
N-Methyl perfluorooctane sulfonamidoethanol	5.581	0.00	5514	0.2200	8.0		Y
N-Ethyl perfluorooctane sulfonamidoethanol	0		0	0	0	U	Y
6:2 Fluorotelomer sulfonic acid (6:2 FTS)	4.573	+0.00	749	0.0037	0.13	U	Y
8:2 Fluorotelomer sulfonic acid (8:2 FTS)	4.939	0.00	1799	0.0138	0.50	J	Y

Prep Amount:	1.059 g	**Dilution:**	1
Prep Final Amount:	8.00 mL	**Basis Factor:**	20.90

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

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Insight Report
Quantitation/Integration
Printed 9/14/2021 18:48:54

210914_022

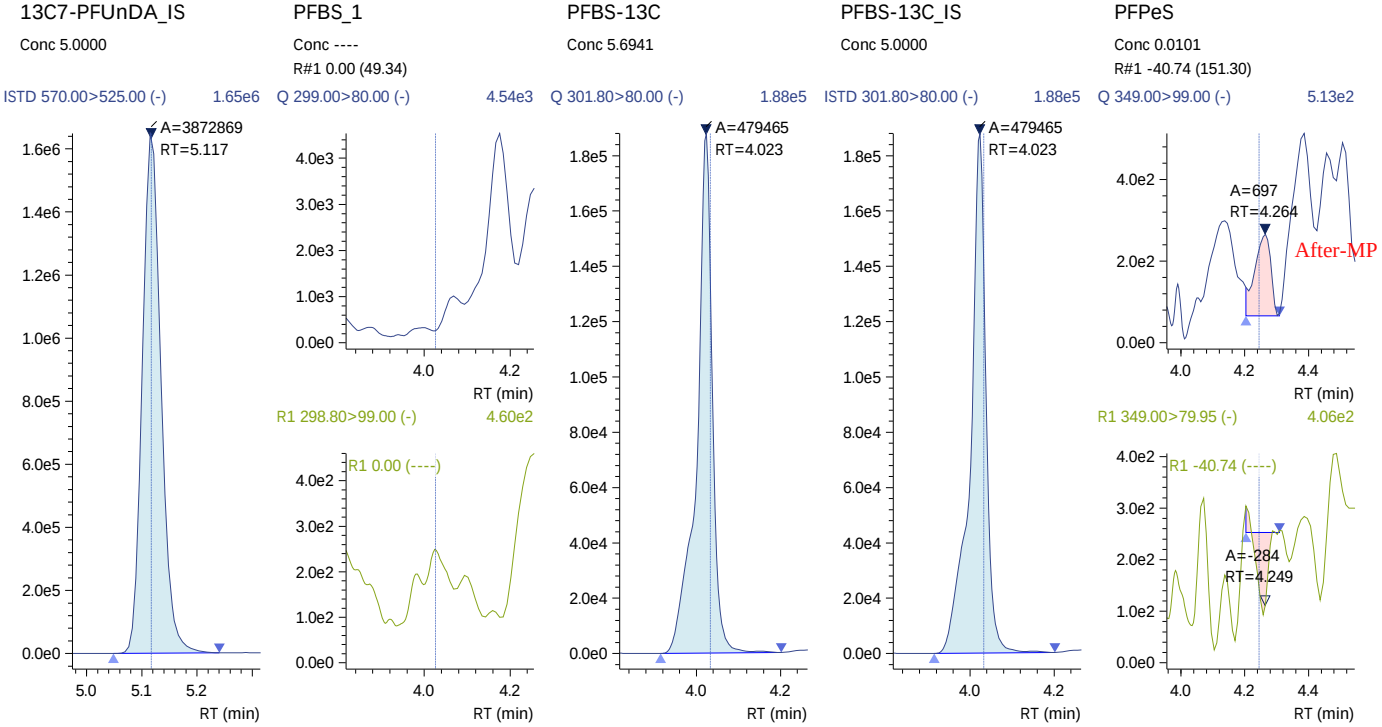
Sample ID: K2109142-002
Date Acquired: 9/14/2021 2:45:02 PM
Acquired by: System Administrator
Data File: 210914_022
Vial: 6 | Inj. Volume: 15.0000uL | Tray: 3

Name	Mode ID	Found RT	Area	ISTD Area	ISTD Name	Std. Conc.	Conc.	Unit
13C7-PFUnDA_IS	Auto	5.117	3872869	3872869	----	----	5.0000	ng/mL
PFBS_1	ND(W/B)	----	----	479465	PFBS-13C_IS	----	----	ng/mL
PFBS-13C	Auto	4.023	479465	3872869	13C7-PFUnDA_IS	----	5.6941	ng/mL
PFBS-13C_IS	Auto	4.023	479465	479465	----	----	5.0000	ng/mL
PFPeS	M	4.264	697	479465	PFBS-13C_IS	----	0.0101	ng/mL
PFHxS_1	M	4.413	2789	388910	PFHxS-18O_IS	----	0.0010	ng/mL
PFHxS-18O	Auto	4.409	388910	3872869	13C7-PFUnDA_IS	----	6.4754	ng/mL
PFHxS-18O_IS	Auto	4.409	388910	388910	----	----	5.0000	ng/mL
PFHpS_1	ND(W/B)	----	----	388910	PFHxS-18O_IS	----	----	ng/mL
PFOS_1	M	4.743	7393	464447	PFOS-13C_IS	----	0.0851	ng/mL
PFOS-13C	Auto	4.742	464447	3872869	13C7-PFUnDA_IS	----	5.6589	ng/mL
PFOS-13C_IS	Auto	4.742	464447	464447	----	----	5.0000	ng/mL
PFNS	M	4.903	453	464447	PFOS-13C_IS	----	0.0072	ng/mL
PFDS_1	ND(W/B)	----	----	464447	PFOS-13C_IS	----	----	ng/mL
PFBA	ND(W/B)	----	----	1958727	PFBA-13C_IS	----	----	ng/mL
PFBA-13C	Auto	3.393	1958727	3872869	13C7-PFUnDA_IS	----	6.4839	ng/mL
PFBA-13C_IS	Auto	3.393	1958727	1958727	----	----	5.0000	ng/mL
PFPeA	M	3.964	16336	997142	PFPeA-13C_IS	----	-0.0078	ng/mL
PFPeA-13C	Auto	3.967	997142	3872869	13C7-PFUnDA_IS	----	5.7756	ng/mL
PFPeA-13C_IS	Auto	3.967	997142	997142	----	----	5.0000	ng/mL
PFHxA	M	4.225	28752	2953725	PFHxA-13C_IS	----	0.0373	ng/mL
PFHxA-13C	Auto	4.227	2953725	3872869	13C7-PFUnDA_IS	----	6.0293	ng/mL
PFHxA-13C_IS	Auto	4.227	2953725	2953725	----	----	5.0000	ng/mL
PFHpA	M	4.372	147564	2674979	PFHpA-13C_IS	----	0.2287	ng/mL
PFHpA-13C	Auto	4.409	2674979	3872869	13C7-PFUnDA_IS	----	6.0209	ng/mL
PFHpA-13C_IS	Auto	4.409	2674979	2674979	----	----	5.0000	ng/mL
PFOA	Auto	4.580	14497	3090038	PFOA-13C_IS	----	0.0171	ng/mL
PFOA-13C	Auto	4.580	3090038	3872869	13C7-PFUnDA_IS	----	5.2025	ng/mL
PFOA-13C_IS	Auto	4.580	3090038	3090038	----	----	5.0000	ng/mL
PFNA	M	4.764	20438	3131432	PFNA-13C_IS	----	0.0316	ng/mL
PFNA-13C	Auto	4.755	3131432	3872869	13C7-PFUnDA_IS	----	6.1193	ng/mL
PFNA-13C_IS	Auto	4.755	3131432	3131432	----	----	5.0000	ng/mL
PFDA	M	4.942	24914	2262635	PFDA-13C_IS	----	0.0391	ng/mL
PFDA-13C	Auto	4.942	2262635	3872869	13C7-PFUnDA_IS	----	6.3596	ng/mL
PFDA-13C_IS	Auto	4.942	2262635	2262635	----	----	5.0000	ng/mL
PFUnA	Auto	5.118	13429	2552691	PFUnA-13C_IS	----	0.0238	ng/mL
PFUnA-13C	Auto	5.117	2552691	3872869	13C7-PFUnDA_IS	----	4.7584	ng/mL
PFUnA-13C_IS	Auto	5.117	2552691	2552691	----	----	5.0000	ng/mL
PFDoA	Auto	5.277	9934	2867318	PFDoA-13C_IS	----	0.0195	ng/mL
PFDoA-13C	Auto	5.280	2867318	3872869	13C7-PFUnDA_IS	----	4.8457	ng/mL
PFDoA-13C_IS	Auto	5.280	2867318	2867318	----	----	5.0000	ng/mL
PFTrDA	Auto	5.439	4968	2209012	PFTeDA-13C_IS	----	0.0110	ng/mL
PFTeDA	M	5.586	7284	2209012	PFTeDA-13C_IS	----	0.0149	ng/mL
PFTeDA-13C	Auto	5.583	2209012	3872869	13C7-PFUnDA_IS	----	3.7207	ng/mL
PFTeDA-13C_IS	Auto	5.583	2209012	2209012	----	----	5.0000	ng/mL
FOSA	Auto	5.228	1249	424641	FOSA-13C_IS	----	0.0123	ng/mL
FOSA-13C	Auto	5.224	424641	3872869	13C7-PFUnDA_IS	----	1.7238	ng/mL
FOSA-13C_IS	Auto	5.224	424641	424641	----	----	5.0000	ng/mL
N-MeFOSA	ND(W/B)	----	----	61988	N-MeFOSA-d3_IS	----	----	ng/mL
N-MeFOSA-d3	Auto	5.603	61988	3872869	13C7-PFUnDA_IS	----	1.1215	ng/mL
N-MeFOSA-d3_IS	Auto	5.603	61988	61988	----	----	5.0000	ng/mL
N-EtFOSA	ND(W/B)	----	----	53530	N-EtFOSA-d9_IS	----	----	ng/mL
N-EtFOSA-d9	Auto	5.718	53530	3872869	13C7-PFUnDA_IS	----	0.8313	ng/mL
N-EtFOSA-d9_IS	Auto	5.718	53530	53530	----	----	5.0000	ng/mL

210914_022 (continued)

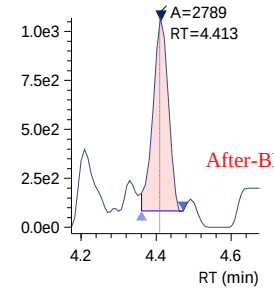
(Table continued from previous page)

Name	Mode ID	Found RT	Area	ISTD Area	ISTD Name	Std. Conc.	Conc.	Unit
N-MeFOSE	M	5.581	5514	69732	N-MeFOSE-d7_IS	----	0.2200	ng/mL
N-MeFOSE-d7	Auto	5.573	69732	3872869	13C7-PFUnDA_IS	----	0.8193	ng/mL
N-MeFOSE-d7_IS	Auto	5.573	69732	69732	----	----	5.0000	ng/mL
N-EtFOSE	ND(W/B)	----	----	239555	N-EtFOSE-d9_IS	----	----	ng/mL
N-EtFOSE-d9	Auto	5.688	239555	3872869	13C7-PFUnDA_IS	----	2.9722	ng/mL
N-EtFOSE-d9_IS	Auto	5.688	239555	239555	----	----	5.0000	ng/mL
N-MeFOSAA	M	5.039	11066	493946	N-MeFOSAA-d3_IS	----	0.1435	ng/mL
N-MeFOSAA-d3	Auto	5.037	493946	3872869	13C7-PFUnDA_IS	----	5.0517	ng/mL
N-MeFOSAA-d3_IS	Auto	5.037	493946	493946	----	----	5.0000	ng/mL
N-EtFOSAA	Auto	5.127	4805	543862	N-EtFOSAA-d5_IS	----	0.0839	ng/mL
N-EtFOSAA-d5	Auto	5.129	543862	3872869	13C7-PFUnDA_IS	----	6.5779	ng/mL
N-EtFOSAA-d5_IS	Auto	5.129	543862	543862	----	----	5.0000	ng/mL
4_2-FTS_1	Auto	4.185	4745	979633	4_2-FTS-13C_IS	----	0.0268	ng/mL
4_2-FTS-13C	Auto	4.201	979633	3872869	13C7-PFUnDA_IS	----	10.6900	ng/mL
4_2-FTS-13C_IS	Auto	4.201	979633	979633	----	----	5.0000	ng/mL
6_2-FTS_1	Auto	4.573	749	770001	6_2-FTS-13C_IS	----	0.0037	ng/mL
6_2-FTS-13C	Auto	4.571	770001	3872869	13C7-PFUnDA_IS	----	9.9451	ng/mL
6_2-FTS-13C_IS	Auto	4.571	770001	770001	----	----	5.0000	ng/mL
8_2-FTS_1	Auto	4.939	1799	681874	8_2-FTS-13C_IS	----	0.0138	ng/mL
8_2-FTS-13C	Auto	4.941	681874	3872869	13C7-PFUnDA_IS	----	12.1148	ng/mL
8_2-FTS-13C_IS	Auto	4.941	681874	681874	----	----	5.0000	ng/mL
10_2-FtS_1	Auto	5.285	2561	681874	8_2-FTS-13C_IS	----	0.0242	ng/mL
HPFO_DA	M	4.293	1425	520377	HFPO_DA-13C_IS	----	0.0137	ng/mL
HFPO_DA-13C	Auto	4.293	520377	3872869	13C7-PFUnDA_IS	----	6.2704	ng/mL
HFPO_DA-13C_IS	Auto	4.293	520377	520377	----	----	5.0000	ng/mL

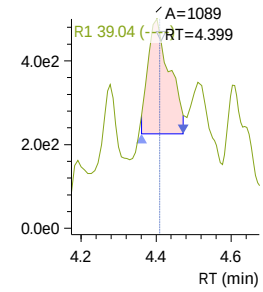


210914_022 (continued)

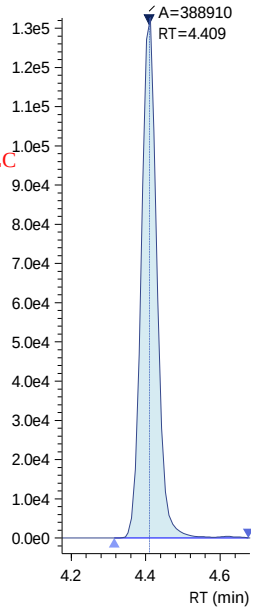
PFHxS_1
Conc 0.0010
R#1 39.04 (62.92)
Q 399.00>80.00 (-) 1.07e3



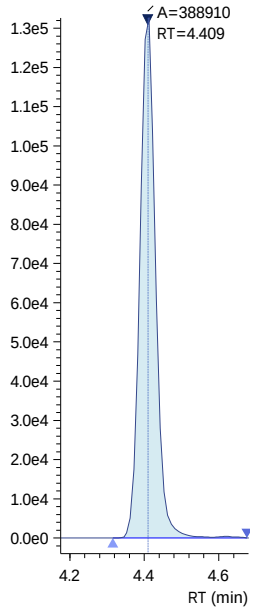
R1 399.00>99.00 (-) 5.00e2



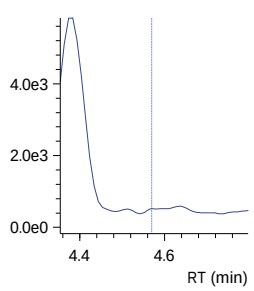
PFHxS-18O
Conc 6.4754
Q 402.70>84.05 (-) 1.33e5



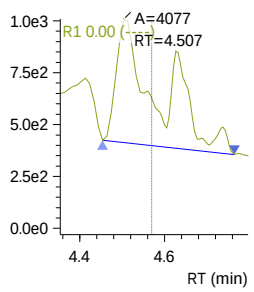
PFHxS-18O_IS
Conc 5.0000
ISTD 402.70>84.05 (-) 1.33e5



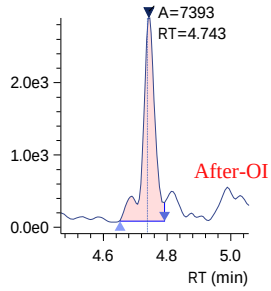
PFHpS_1
Conc ----
R#1 0.00 (40.53)
Q 449.00>80.15 (-) 5.84e3



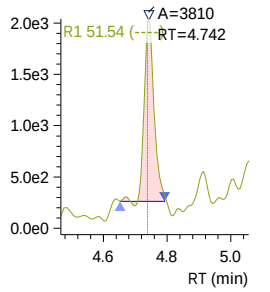
R1 449.00>99.20 (-) 1.01e3



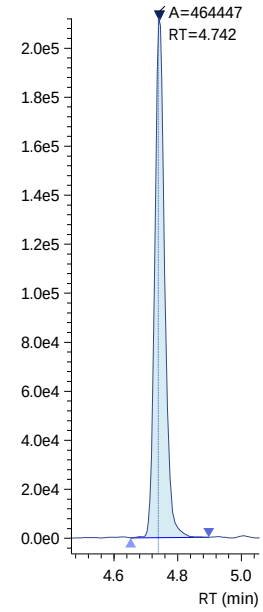
PFOS_1
Conc 0.0851
R#1 51.54 (73.81)
Q 499.00>80.00 (-) 2.90e3



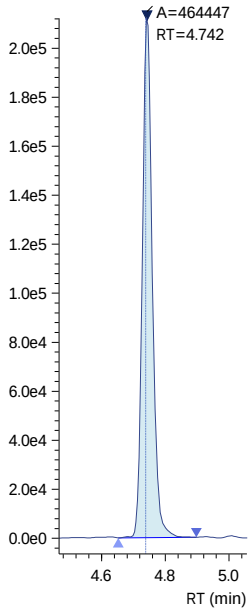
R1 499.00>99.00 (-) 2.04e3



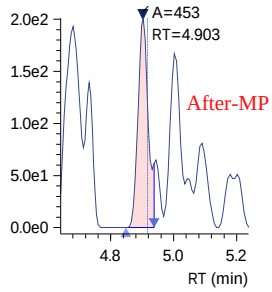
PFOS-13C
Conc 5.6589
Q 502.80>80.05 (-) 2.12e5



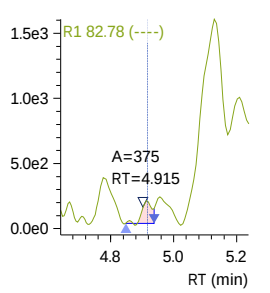
PFOS-13C_IS
Conc 5.0000
ISTD 502.80>80.05 (-) 2.12e5



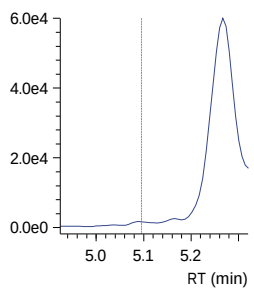
PFNS
Conc 0.0072
R#1 82.78 (160.25)
Q 549.00>99.00 (-) 2.01e2



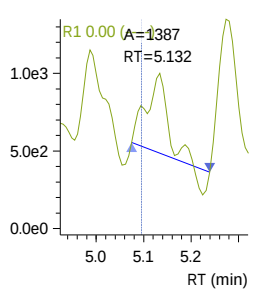
R1 549.00>79.95 (-) 1.61e3



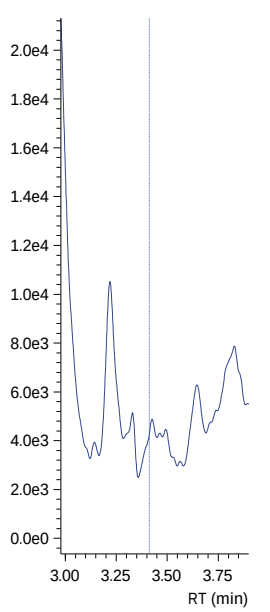
PFDS_1
Conc ----
R#1 0.00 (72.12)
Q 599.00>79.90 (-) 6.00e4



R1 599.00>99.10 (-) 1.35e3

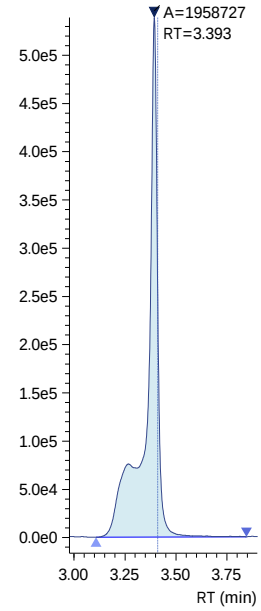


PFBA
Conc ----
Q 213.00>169.10 (-) 2.13e4

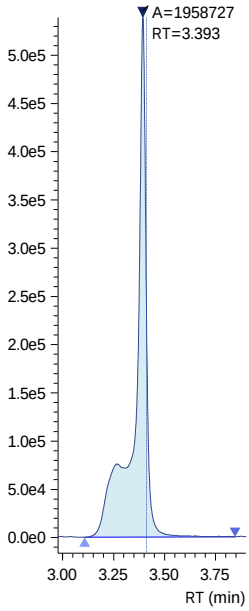


210914_022 (continued)

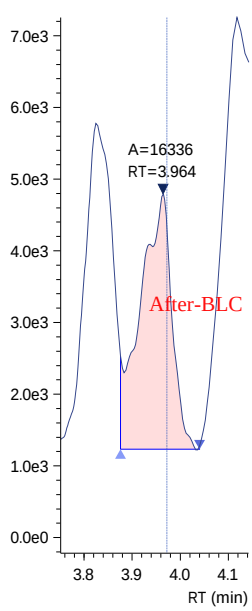
PFBA-13C
Conc 6.4839
Q 216.90>172.15 (-) 5.39e5



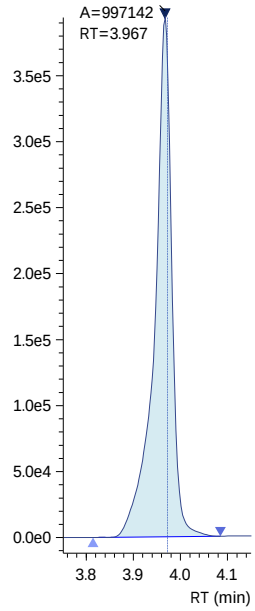
PFBA-13C_IS
Conc 5.0000
ISTD 216.90>172.15 (-) 5.39e5



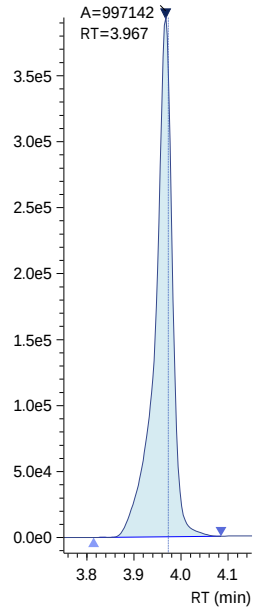
PFPeA
Conc -0.0078
Q 263.05>219.10 (-) 7.25e3



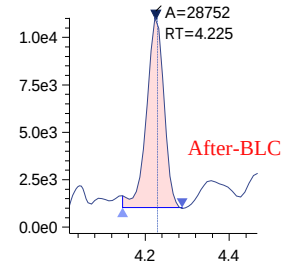
PFPeA-13C
Conc 5.7756
Q 267.90>223.00 (-) 3.94e5



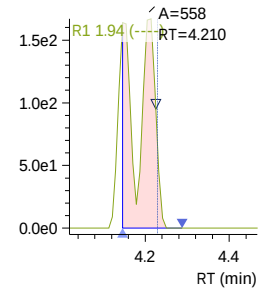
PFPeA-13C_IS
Conc 5.0000
ISTD 267.90>223.00 (-) 3.94e5



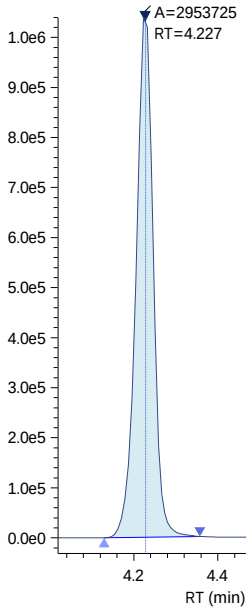
PFHxA
Conc 0.0373
R#1 1.94 (4.40)
Q 313.00>269.00 (-) 1.10e4



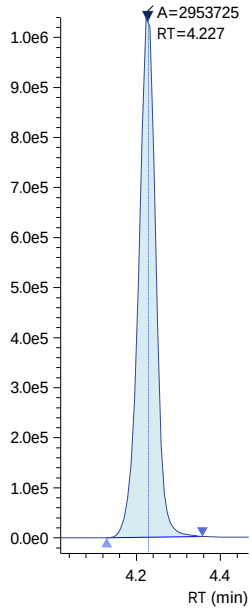
R1 313.00>119.10 (-) 1.67e2



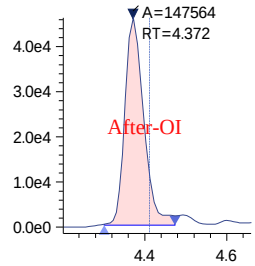
PFHxA-13C
Conc 6.0293
Q 314.90>270.10 (-) 1.04e6



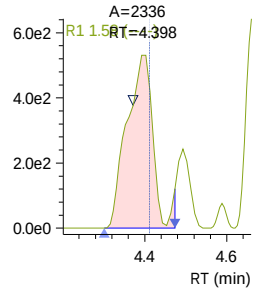
PFHxA-13C_IS
Conc 5.0000
ISTD 314.90>270.10 (-) 1.04e6



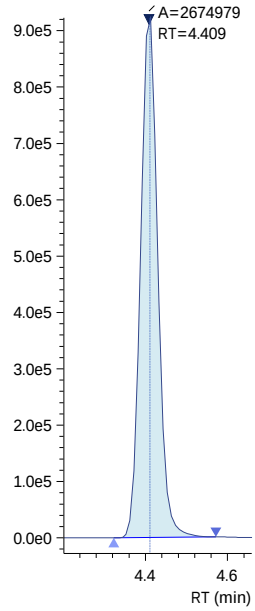
PFHpA
Conc 0.2287
R#1 1.58 (24.40)
Q 362.90>319.00 (-) 4.64e4



R1 362.90>169.00 (-) 6.43e2



PFHpA-13C
Conc 6.0209
Q 366.90>322.10 (-) 9.23e5



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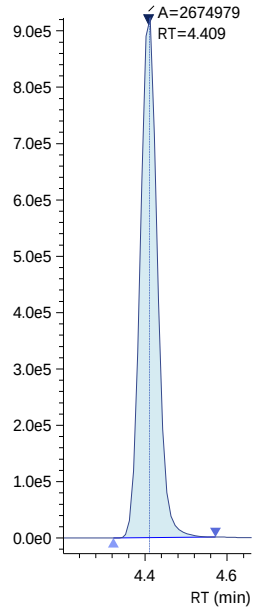
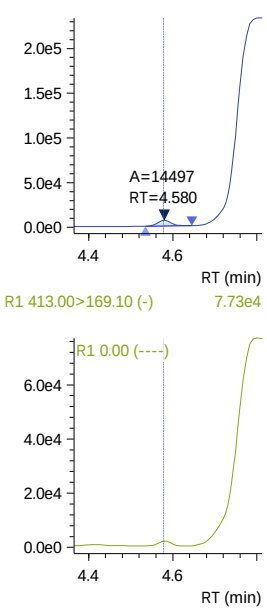
PFHpA-13C_IS
Conc 5.0000
ISTD 366.90>322.10 (-) 9.23e5

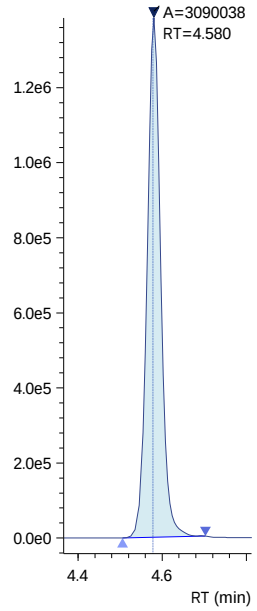


PFOA
Conc 0.0171
R#1 0.00 (31.89)
Q 413.00>369.00 (-) 2.34e5

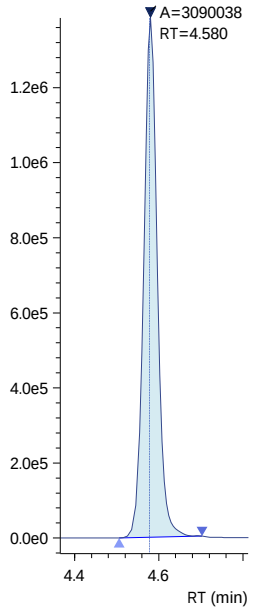


R1 413.00>169.10 (-) 7.73e4

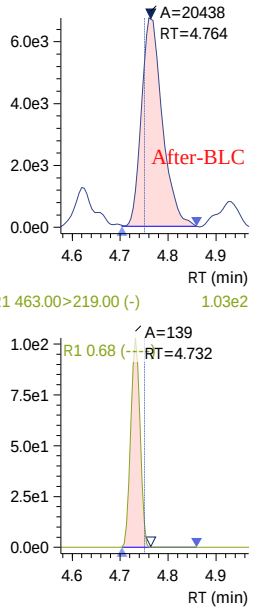
PFOA-13C
Conc 5.2025
Q 416.80>372.05 (-) 1.39e6



PFOA-13C_IS
Conc 5.0000
ISTD 416.80>372.05 (-) 1.39e6

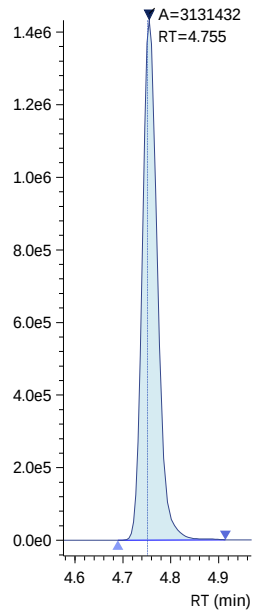


PFNA
Conc 0.0316
R#1 0.68 (23.25)
Q 463.00>418.90 (-) 6.77e3

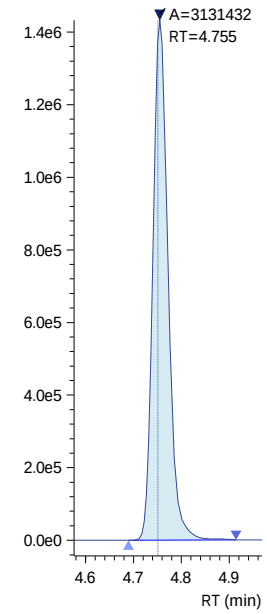


R1 463.00>219.00 (-) 1.03e2

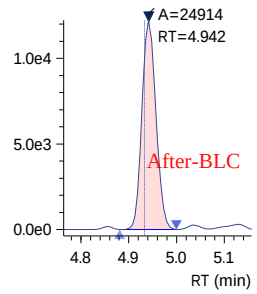
PFNA-13C
Conc 6.1193
Q 467.80>423.00 (-) 1.43e6



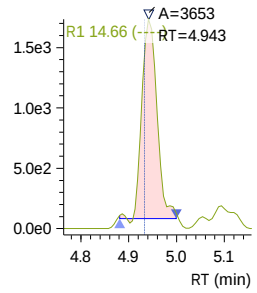
PFNA-13C_IS
Conc 5.0000
ISTD 467.80>423.00 (-) 1.43e6



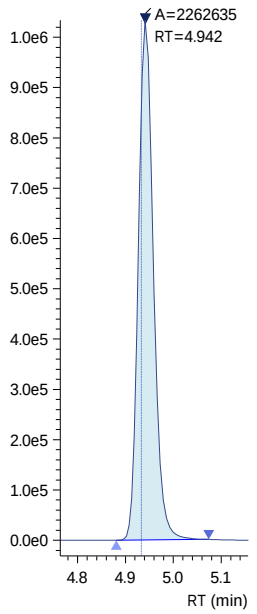
PFDA
Conc 0.0391
R#1 14.66 (20.24)
Q 513.00>468.80 (-) 1.22e4



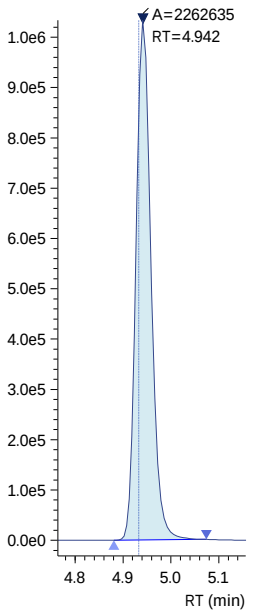
R1 513.00>219.10 (-) 1.74e3



PFDA-13C
Conc 6.3596
Q 514.80>469.95 (-) 1.03e6

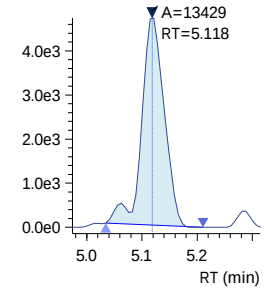


PFDA-13C_IS
Conc 5.0000
ISTD 514.80>469.95 (-) 1.03e6

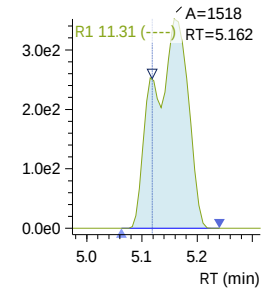


210914_022 (continued)

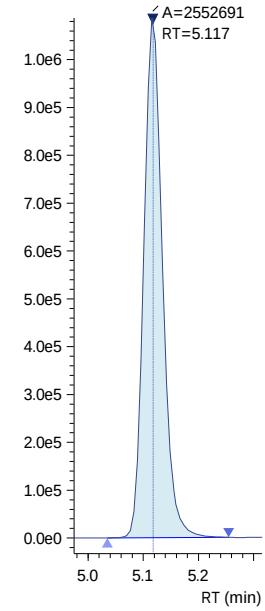
PFUnA
Conc 0.0238
R#1 11.31 (12.46)
Q 563.00>518.90 (-) 4.75e3



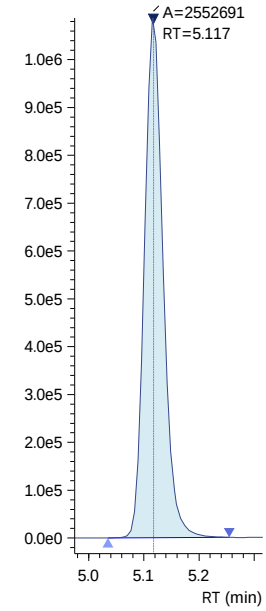
R1 563.00>219.00 (-) 3.52e2



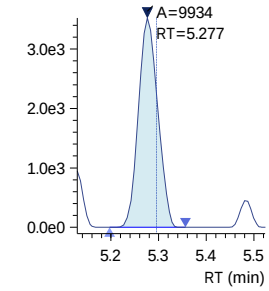
PFUnA-13C
Conc 4.7584
Q 564.80>519.95 (-) 1.09e6



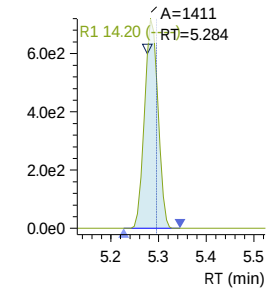
PFUnA-13C_IS
Conc 5.0000
ISTD 564.80>519.95 (-) 1.09e6



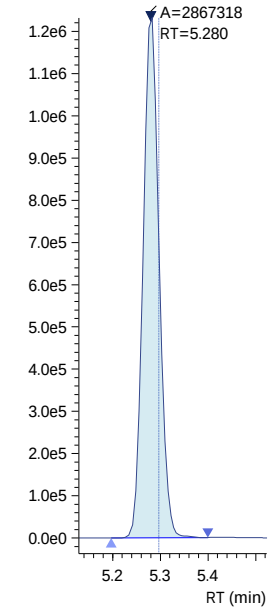
PFDoA
Conc 0.0195
R#1 14.20 (16.50)
Q 613.05>569.00 (-) 3.52e3



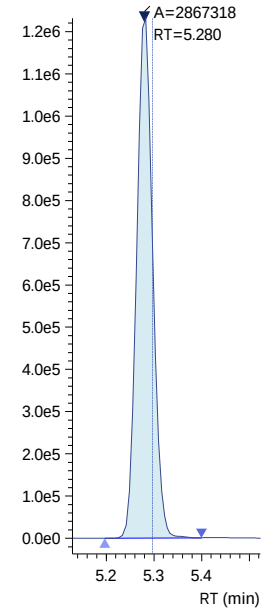
R1 613.05>169.00 (-) 7.19e2



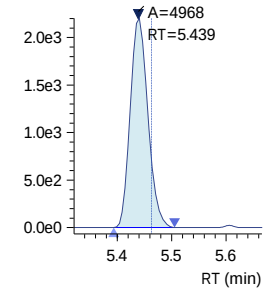
PFDoA-13C
Conc 4.8457
Q 614.80>569.95 (-) 1.23e6



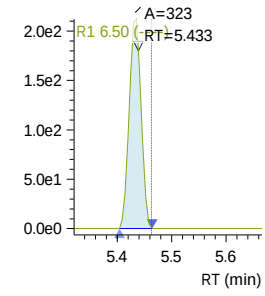
PFDoA-13C_IS
Conc 5.0000
ISTD 614.80>569.95 (-) 1.23e6



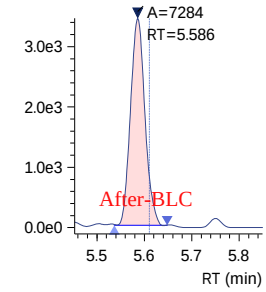
PFTrDA
Conc 0.0110
R#1 6.50 (15.29)
Q 663.00>618.90 (-) 2.20e3



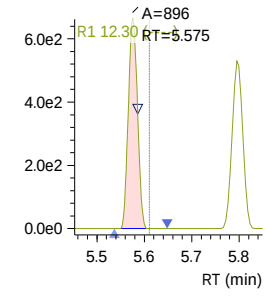
R1 662.90>169.00 (-) 2.12e2



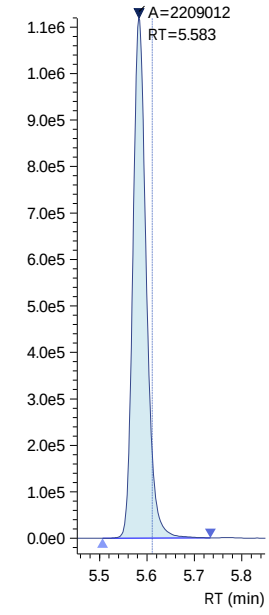
PFTeDA
Conc 0.0149
R#1 12.30 (17.47)
Q 713.00>669.00 (-) 3.47e3



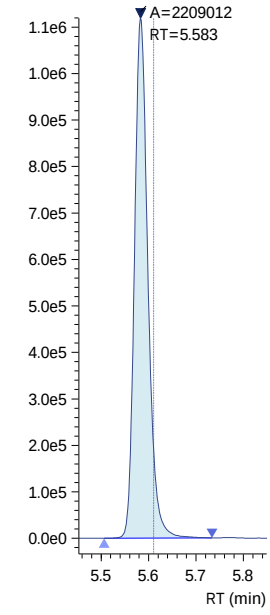
R1 713.00>169.10 (-) 6.62e2



PFTeDA-13C
Conc 3.7207
Q 714.70>669.90 (-) 1.12e6

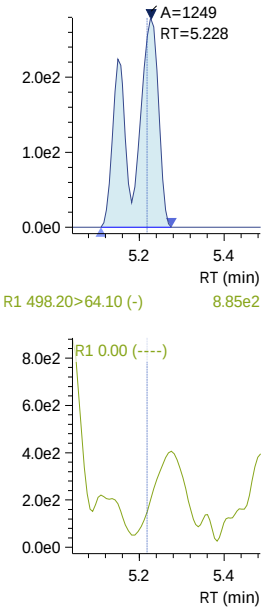


PFTeDA-13C_IS
Conc 5.0000
ISTD 714.70>669.90 (-) 1.12e6

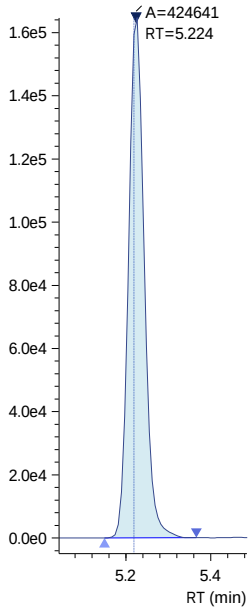


210914_022 (continued)

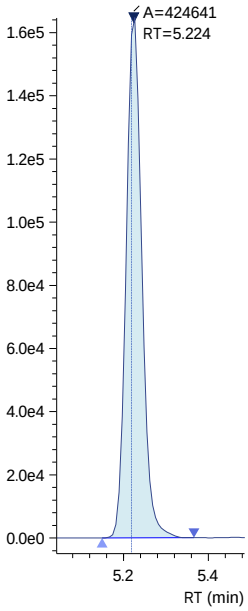
FOSA
Conc 0.0123
R#1 0.00 (5.19)
Q 498.20>78.00 (-) 2.79e2
R1 498.20>64.10 (-) 8.85e2



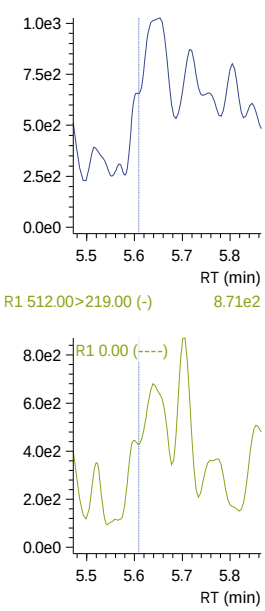
FOSA-13C
Conc 1.7238
Q 506.00>78.05 (-) 1.65e5



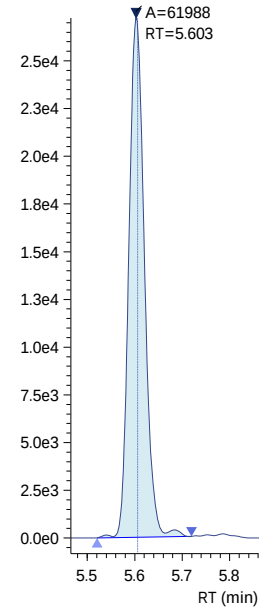
FOSA-13C_IS
Conc 5.0000
ISTD 506.00>78.05 (-) 1.65e5



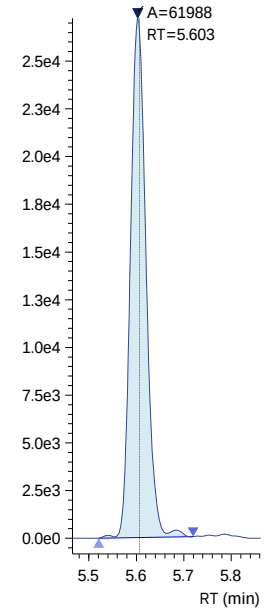
N-MeFOSA
Conc ----
R#1 0.00 (69.94)
Q 512.00>169.10 (-) 1.03e3
R1 512.00>219.00 (-) 8.71e2



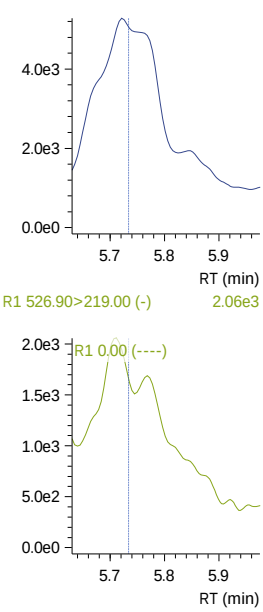
N-MeFOSA-d3
Conc 1.1215
Q 514.90>168.90 (-) 2.72e4



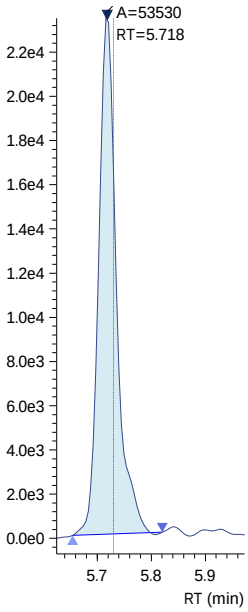
N-MeFOSA-d3_IS
Conc 5.0000
ISTD 514.90>168.90 (-) 2.72e4



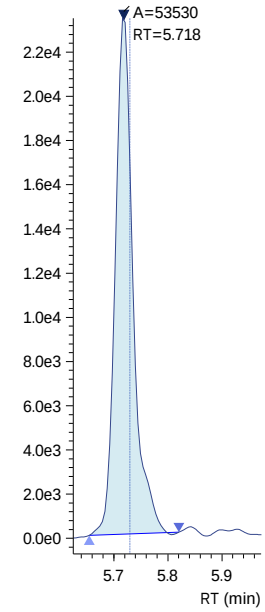
N-EtFOSA
Conc ----
R#1 0.00 (66.52)
Q 526.90>169.10 (-) 5.28e3
R1 526.90>219.00 (-) 2.06e3



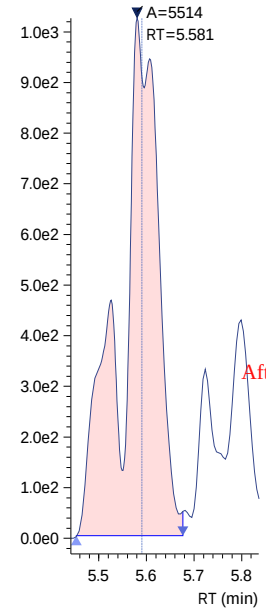
N-EtFOSA-d9
Conc 0.8313
Q 530.90>169.15 (-) 2.35e4



N-EtFOSA-d9_IS
Conc 5.0000
ISTD 530.90>169.15 (-) 2.35e4



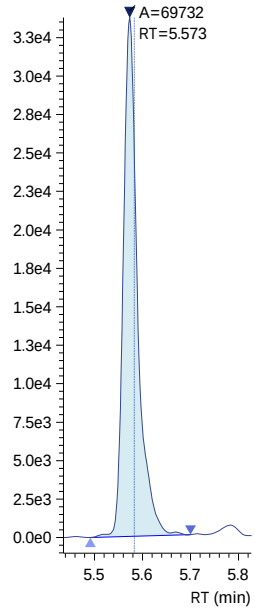
N-MeFOSE
Conc 0.2200
Q 616.00>59.00 (-) 1.03e3



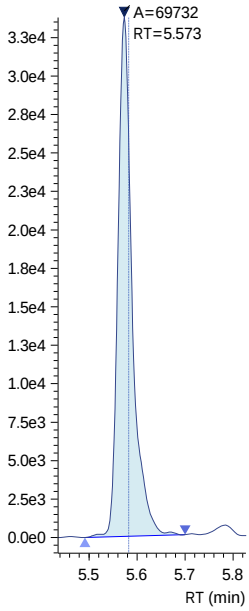
After-BLC

210914_022 (continued)

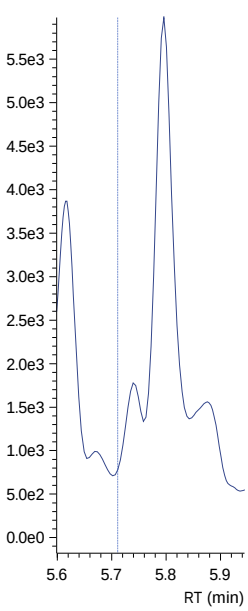
N-MeFOSE-d7
Conc 0.8193
Q 622.70>59.10 (-) 3.38e4



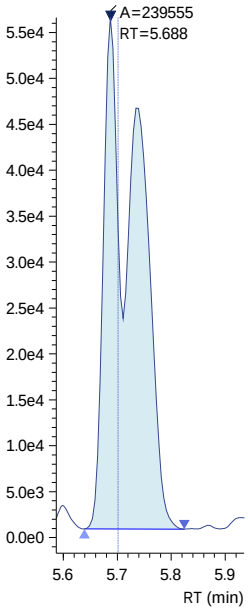
N-MeFOSE-d7_IS
Conc 5.0000
ISTD 622.70>59.10 (-) 3.38e4



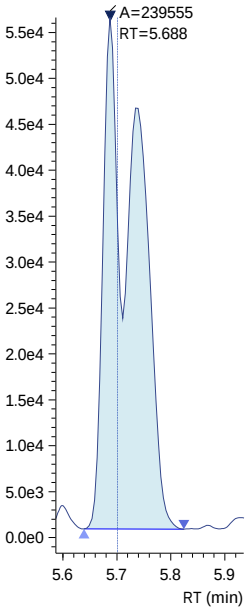
N-EtFOSE
Conc ----
Q 630.00>58.90 (-) 5.98e3



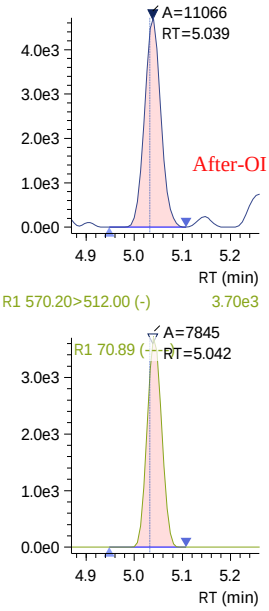
N-EtFOSE-d9
Conc 2.9722
Q 638.70>59.10 (-) 5.66e4



N-EtFOSE-d9_IS
Conc 5.0000
ISTD 638.70>59.10 (-) 5.66e4

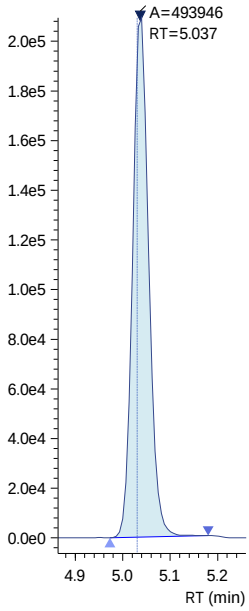


N-MeFOSAA
Conc 0.1435
R#1 70.89 (39.56)
Q 570.20>419.00 (-) 4.72e3

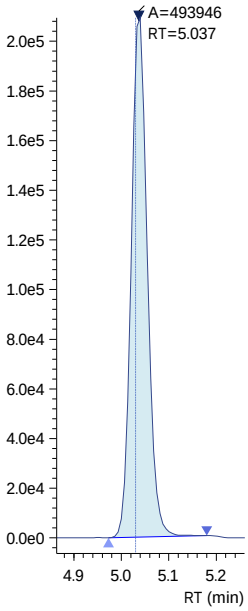


R1 570.20>512.00 (-) 3.70e3

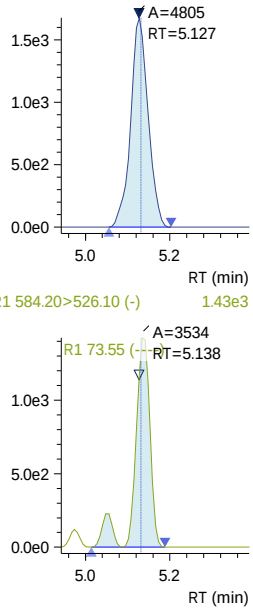
N-MeFOSAA-d3
Conc 5.0517
Q 572.80>419.05 (-) 2.09e5



N-MeFOSAA-d3_IS
Conc 5.0000
ISTD 572.80>419.05 (-) 2.09e5

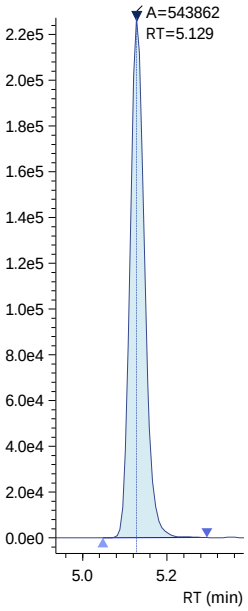


N-EtFOSAA
Conc 0.0839
R#1 73.55 (84.54)
Q 584.20>418.95 (-) 1.68e3



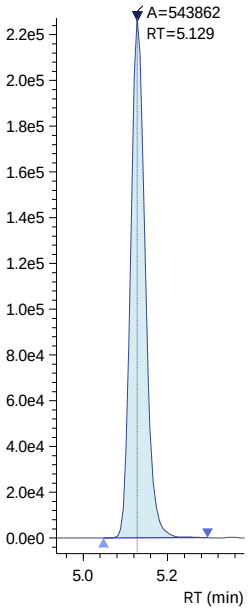
R1 584.20>526.10 (-) 1.43e3

N-EtFOSAA-d5
Conc 6.5779
Q 588.80>419.00 (-) 2.27e5

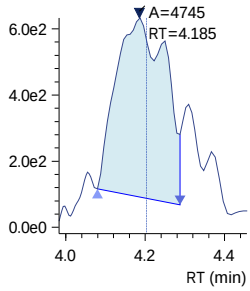


210914_022 (continued)

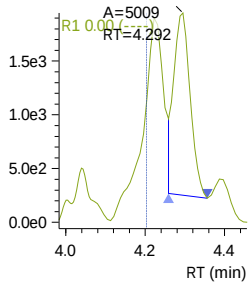
N-EtFOSAA-d5_IS
Conc 5.0000
ISTD 588.80>419.00 (-) 2.27e5



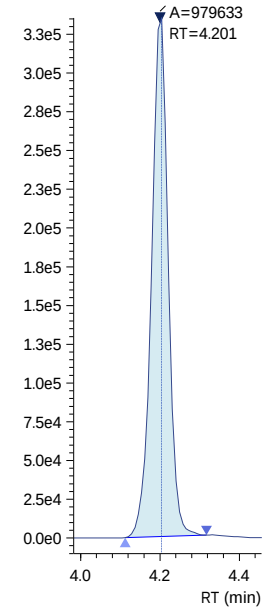
4_2-FTS_1
Conc 0.0268
R#1 0.00 (34.12)
Q 327.00>307.05 (-) 6.33e2



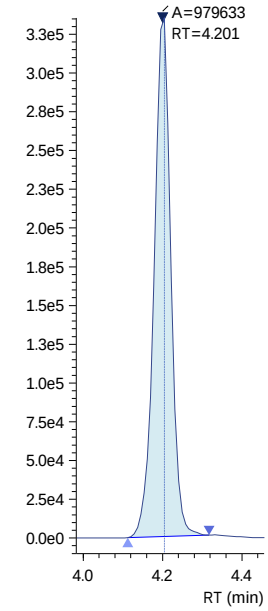
R1 327.00>81.10 (-) 1.95e3



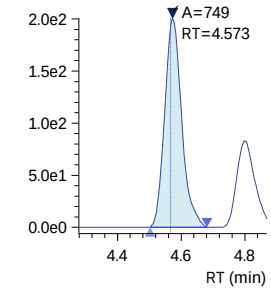
4_2-FTS-13C
Conc 10.6900
Q 328.80>309.05 (-) 3.36e5



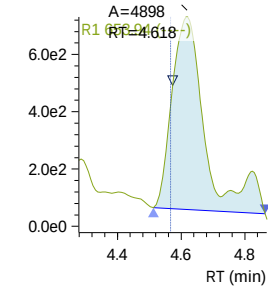
4_2-FTS-13C_IS
Conc 5.0000
ISTD 328.80>309.05 (-) 3.36e5



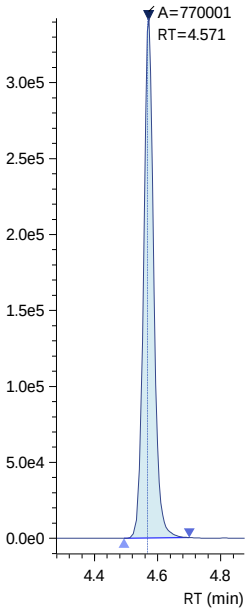
6_2-FTS_1
Conc 0.0037
R#1 653.94 (37.36)
Q 427.00>407.00 (-) 2.01e2



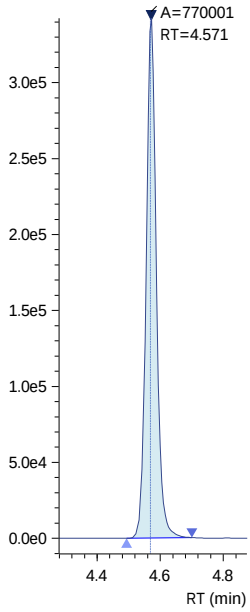
R1 427.00>80.90 (-) 7.31e2



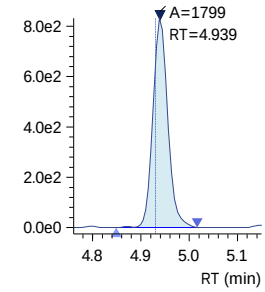
6_2-FTS-13C
Conc 9.9451
Q 428.90>409.00 (-) 3.42e5



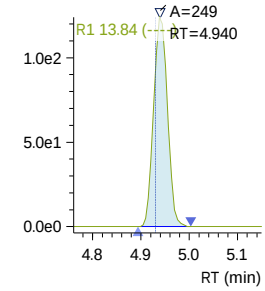
6_2-FTS-13C_IS
Conc 5.0000
ISTD 428.90>409.00 (-) 3.42e5



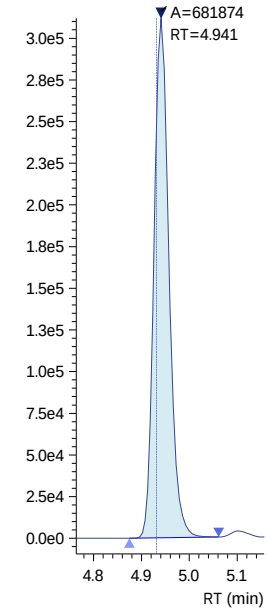
8_2-FTS_1
Conc 0.0138
R#1 13.84 (10.63)
Q 527.10>506.90 (-) 8.32e2



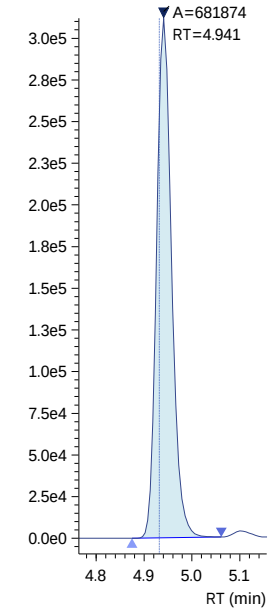
R1 527.20>487.00 (-) 1.24e2



8_2-FTS-13C
Conc 12.1148
Q 528.80>509.00 (-) 3.12e5

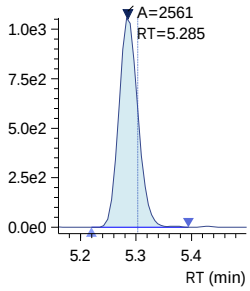


8_2-FTS-13C_IS
Conc 5.0000
ISTD 528.80>509.00 (-) 3.12e5

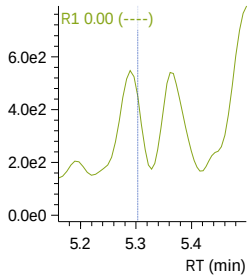


210914_022 (continued)

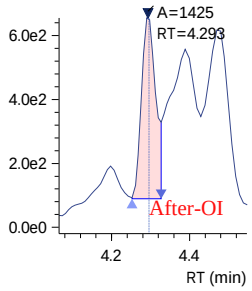
10_2-FtS_1
Conc 0.0242
R#1 0.00 (21.61)
Q 627.00>606.95 (-) 1.06e3



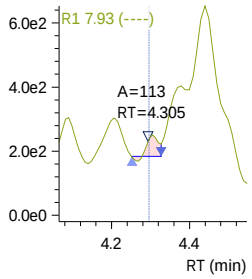
R1 627.00>81.25 (-) 7.92e2



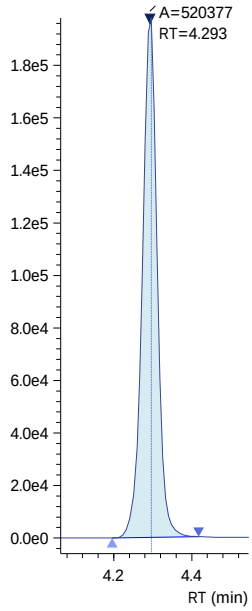
HPFO_DA
Conc 0.0137
R#1 7.93 (106.46)
Q 329.00>169.00 (-) 6.55e2



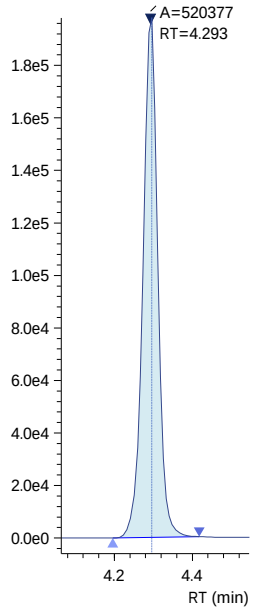
R1 329.00>285.10 (-) 6.53e2



HFPO_DA-13C
Conc 6.2704
Q 332.00>286.80 (-) 1.98e5



HFPO_DA-13C_IS
Conc 5.0000
ISTD 332.00>286.80 (-) 1.98e5

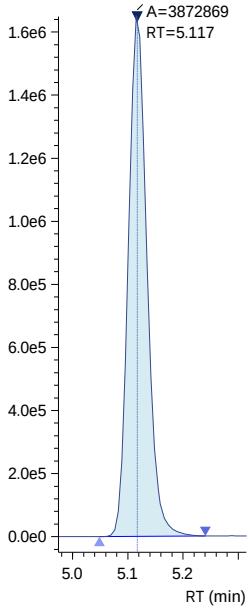


Insight Report
Before Manual Integration
Printed 9/14/2021 18:37:49

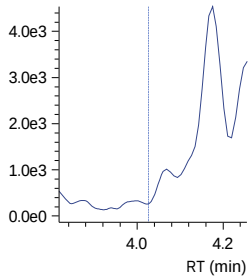
210914_022

Sample ID: K2109142-002
Date Acquired: 9/14/2021 2:45:02 PM
Acquired by: System Administrator
Data File: 210914_022
Vial: 6 | Inj. Volume: 15.0000uL | Tray: 3

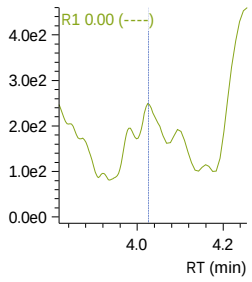
13C7-PFUnDA_IS
Conc 5.0000
ISTD 570.00>525.00 (-) 1.65e6



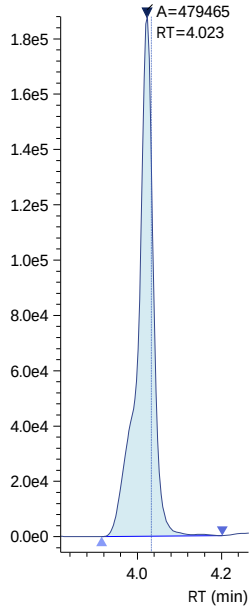
PFBS_1
Conc ----
R#1 0.00 (49.34)
Q 299.00>80.00 (-) 4.54e3



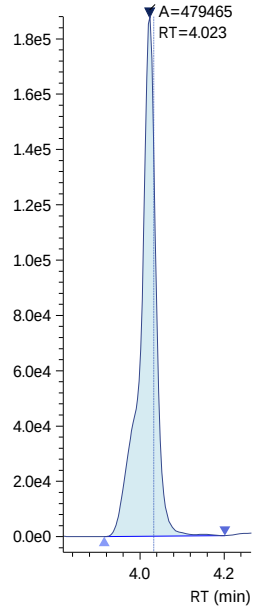
R1 298.80>99.00 (-) 4.60e2



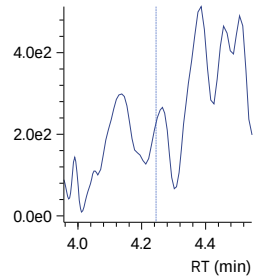
PFBS-13C
Conc 5.6941
Q 301.80>80.00 (-) 1.88e5



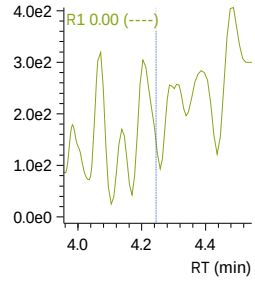
PFBS-13C_IS
Conc 5.0000
ISTD 301.80>80.00 (-) 1.88e5



PFPeS
Conc ----
R#1 0.00 (151.30)
Q 349.00>99.00 (-) 5.13e2

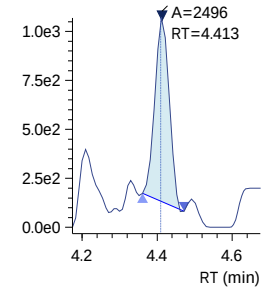


R1 349.00>79.95 (-) 4.06e2

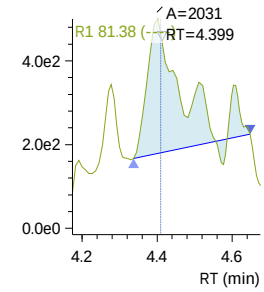


210914_022 (continued)

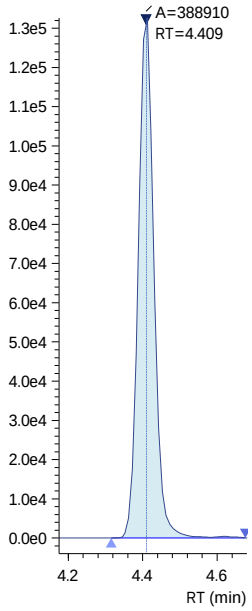
PFHxS_1
Conc -0.0014
R#1 81.38 (62.92)
Q 399.00>80.00 (-) 1.07e3



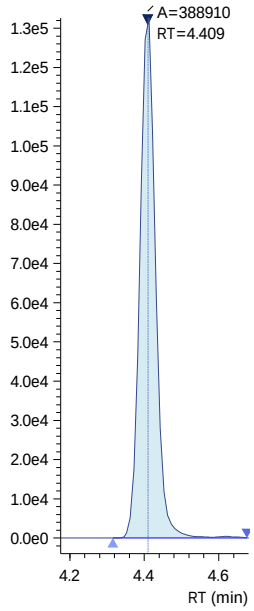
R1 399.00>99.00 (-) 5.00e2



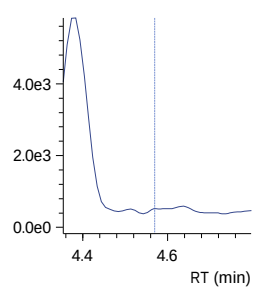
PFHxS-18O
Conc 6.4754
Q 402.70>84.05 (-) 1.33e5



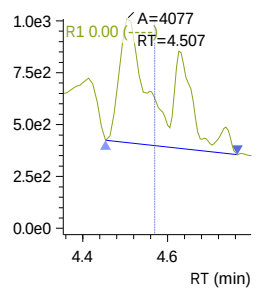
PFHxS-18O_IS
Conc 5.0000
ISTD 402.70>84.05 (-) 1.33e5



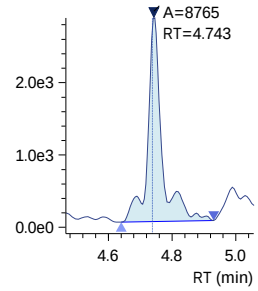
PFHpS_1
Conc ----
R#1 0.00 (40.53)
Q 449.00>80.15 (-) 5.84e3



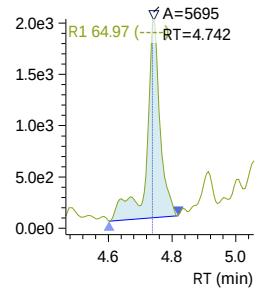
R1 449.00>99.20 (-) 1.01e3



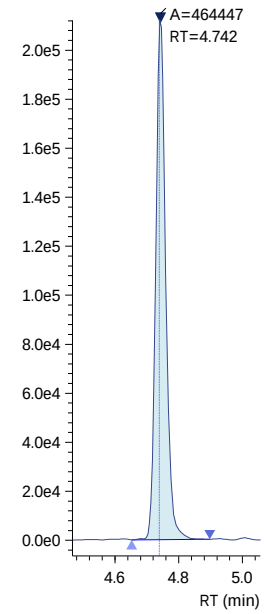
PFOS_1
Conc 0.1008
R#1 64.97 (73.81)
Q 499.00>80.00 (-) 2.90e3



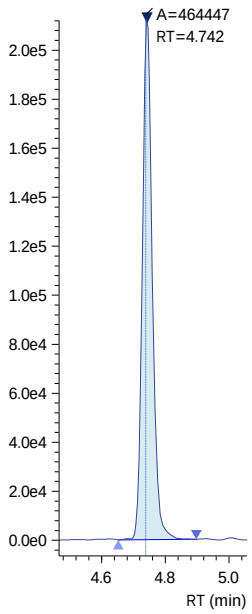
R1 499.00>99.00 (-) 2.04e3



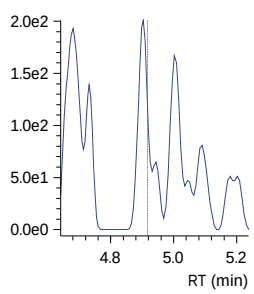
PFOS-13C
Conc 5.6589
Q 502.80>80.05 (-) 2.12e5



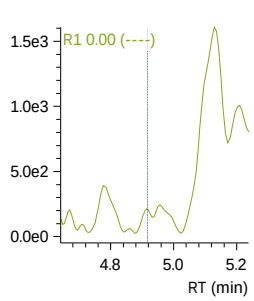
PFOS-13C_IS
Conc 5.0000
ISTD 502.80>80.05 (-) 2.12e5



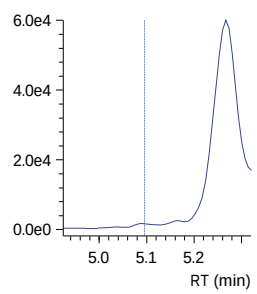
PFNS
Conc ----
R#1 0.00 (160.25)
Q 549.00>99.00 (-) 2.01e2



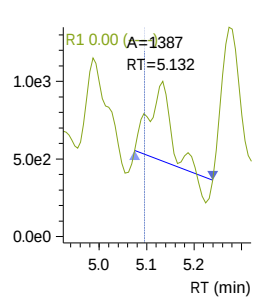
R1 549.00>79.95 (-) 1.61e3



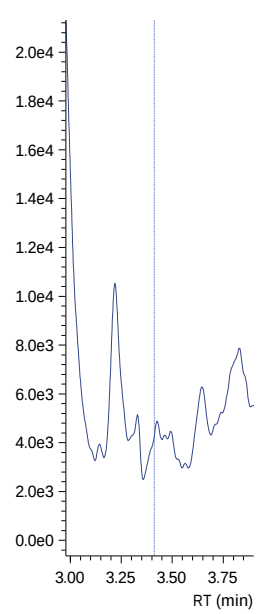
PFDS_1
Conc ----
R#1 0.00 (72.12)
Q 599.00>79.90 (-) 6.00e4



R1 599.00>99.10 (-) 1.35e3

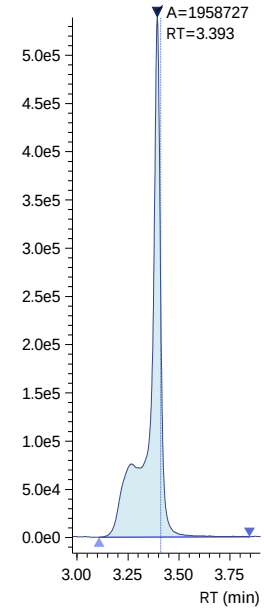


PFBA
Conc ----
Q 213.00>169.10 (-) 2.13e4

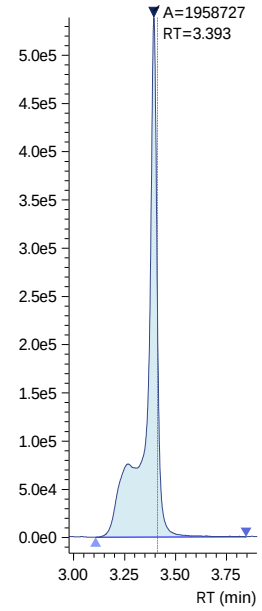


210914_022 (continued)

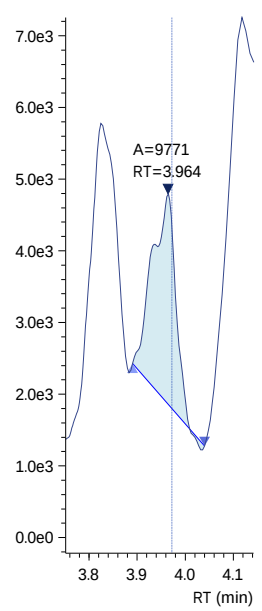
PFBA-13C
Conc 6.4839
Q 216.90>172.15 (-) 5.39e5



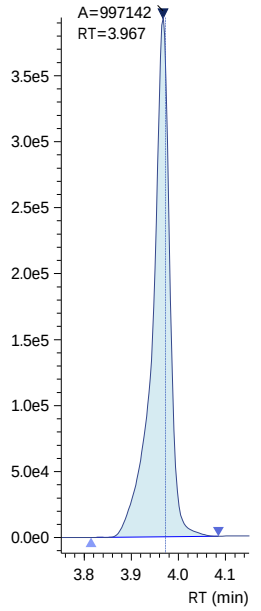
PFBA-13C_IS
Conc 5.0000
ISTD 216.90>172.15 (-) 5.39e5



PFPeA
Conc -0.0186
Q 263.05>219.10 (-) 7.25e3



PFPeA-13C
Conc 5.7756
Q 267.90>223.00 (-) 3.94e5



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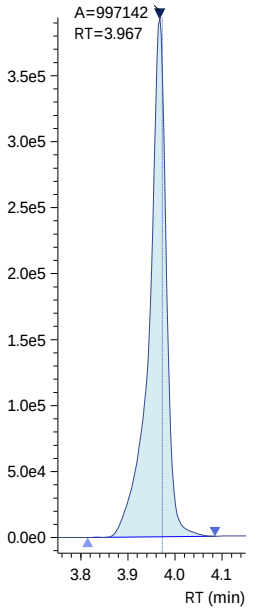
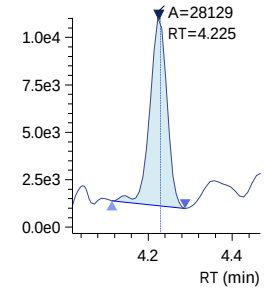
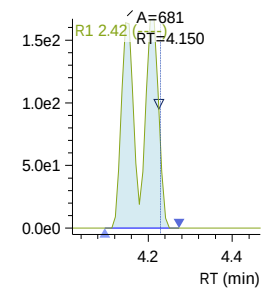
Conc 5.0000
ISTD 267.90>223.00 (-) 3.94e5



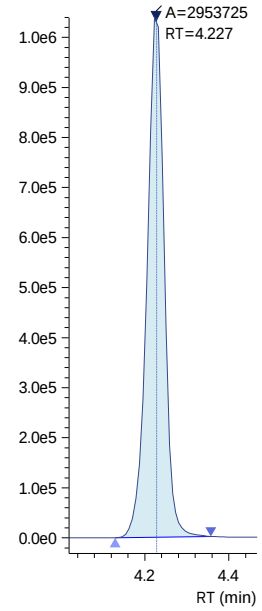
PFHxA
Conc 0.0364
R#1 2.42 (4.40)
Q 313.00>269.00 (-) 1.10e4



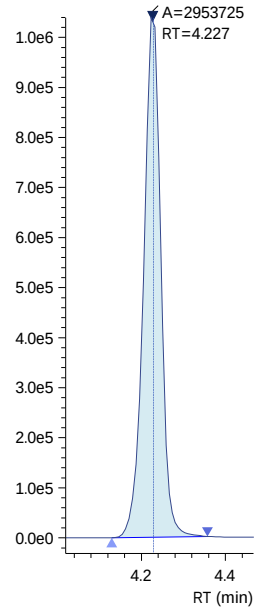
R1 313.00>119.10 (-) 1.67e2



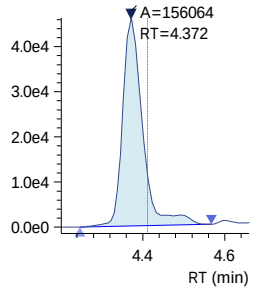
PFHxA-13C
Conc 6.0293
Q 314.90>270.10 (-) 1.04e6



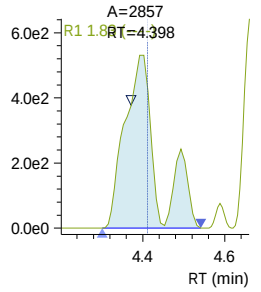
PFHxA-13C_IS
Conc 5.0000
ISTD 314.90>270.10 (-) 1.04e6



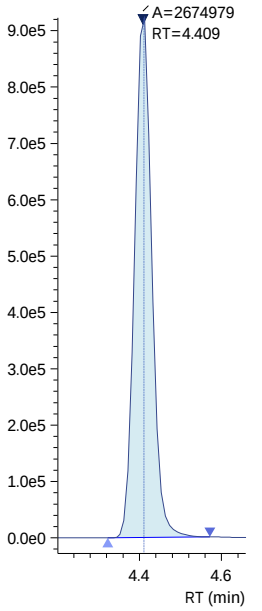
PFHpA
Conc 0.2418
R#1 1.83 (24.40)
Q 362.90>319.00 (-) 4.64e4



R1 362.90>169.00 (-) 6.43e2

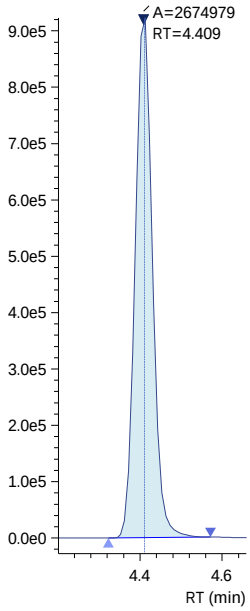


PFHpA-13C
Conc 6.0209
Q 366.90>322.10 (-) 9.23e5

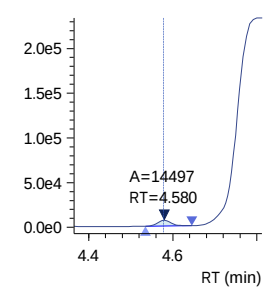


210914_022 (continued)

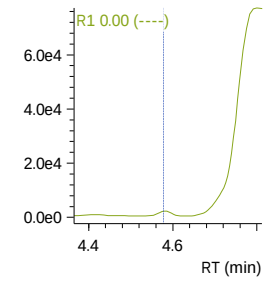
PFHpA-13C_IS
Conc 5.0000
ISTD 366.90>322.10 (-) 9.23e5



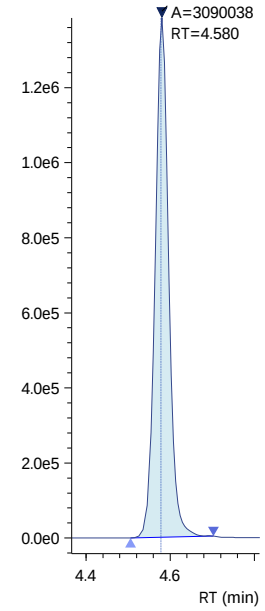
PFOA
Conc 0.0171
R#1 0.00 (31.89)
Q 413.00>369.00 (-) 2.34e5



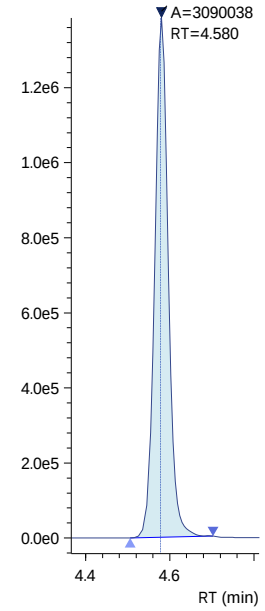
R1 413.00>169.10 (-) 7.73e4



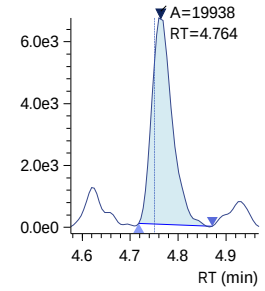
PFOA-13C
Conc 5.2025
Q 416.80>372.05 (-) 1.39e6



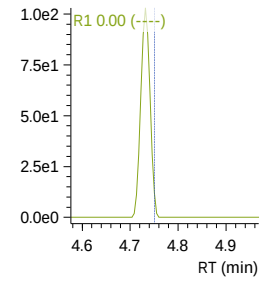
PFOA-13C_IS
Conc 5.0000
ISTD 416.80>372.05 (-) 1.39e6



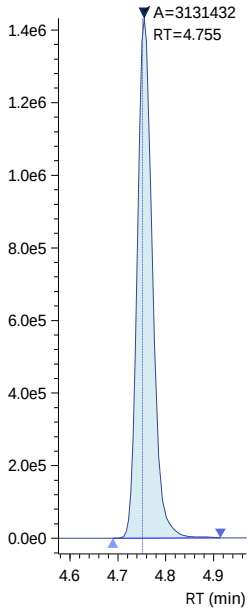
PFNA
Conc 0.0308
R#1 0.00 (23.25)
Q 463.00>418.90 (-) 6.77e3



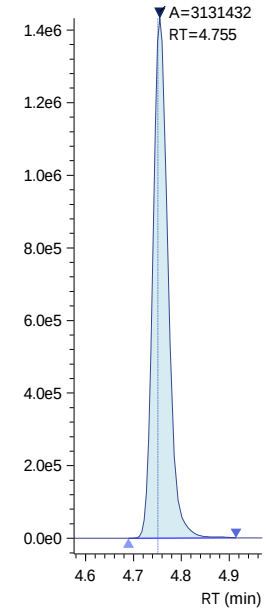
R1 463.00>219.00 (-) 1.03e2



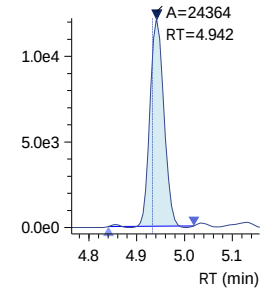
PFNA-13C
Conc 6.1193
Q 467.80>423.00 (-) 1.43e6



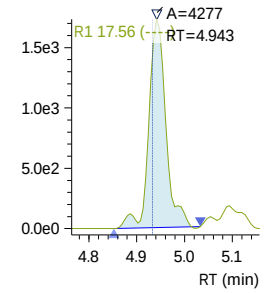
PFNA-13C_IS
Conc 5.0000
ISTD 467.80>423.00 (-) 1.43e6



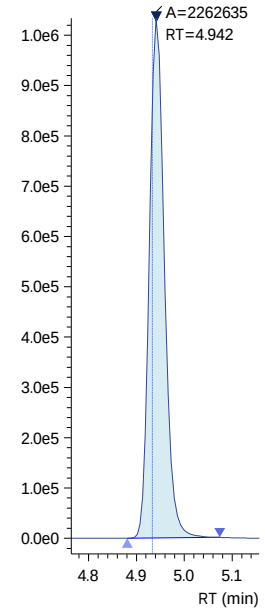
PFDA
Conc 0.0382
R#1 17.56 (20.24)
Q 513.00>468.80 (-) 1.22e4



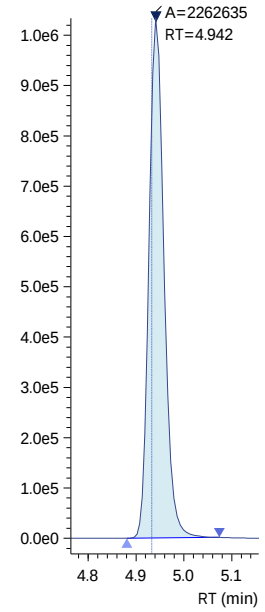
R1 513.00>219.10 (-) 1.74e3



PFDA-13C
Conc 6.3596
Q 514.80>469.95 (-) 1.03e6

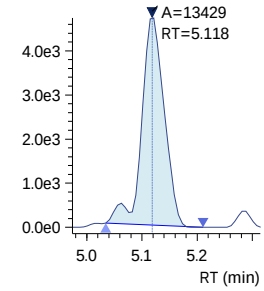


PFDA-13C_IS
Conc 5.0000
ISTD 514.80>469.95 (-) 1.03e6

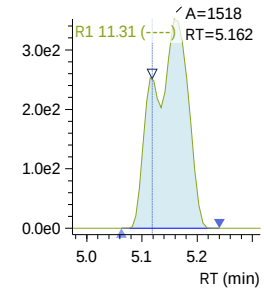


210914_022 (continued)

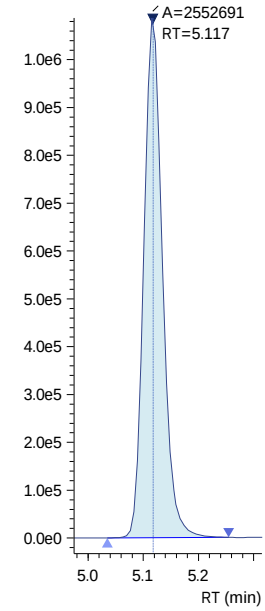
PFUnA
Conc 0.0238
R#1 11.31 (12.46)
Q 563.00>518.90 (-) 4.75e3



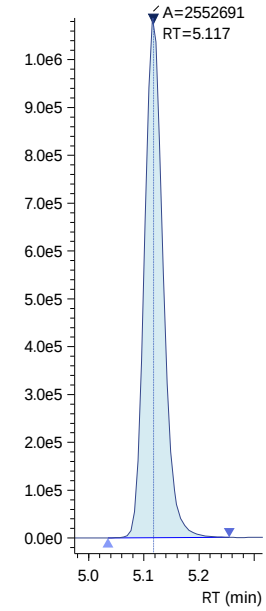
R1 563.00>219.00 (-) 3.52e2



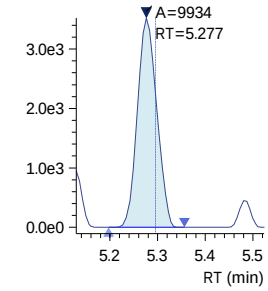
PFUnA-13C
Conc 4.7584
Q 564.80>519.95 (-) 1.09e6



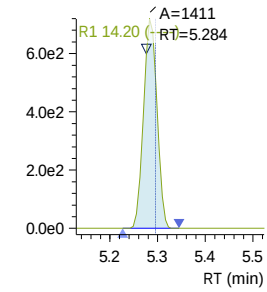
PFUnA-13C_IS
Conc 5.0000
ISTD 564.80>519.95 (-) 1.09e6



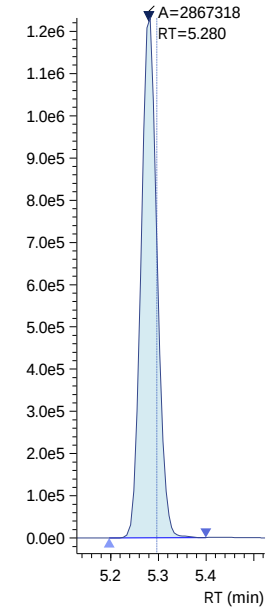
PFDoA
Conc 0.0195
R#1 14.20 (16.50)
Q 613.05>569.00 (-) 3.52e3



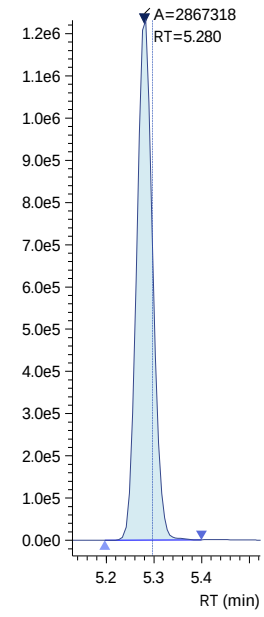
R1 613.05>169.00 (-) 7.19e2



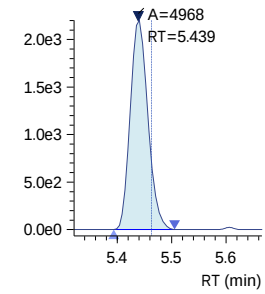
PFDoA-13C
Conc 4.8457
Q 614.80>569.95 (-) 1.23e6



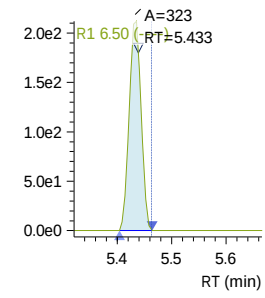
PFDoA-13C_IS
Conc 5.0000
ISTD 614.80>569.95 (-) 1.23e6



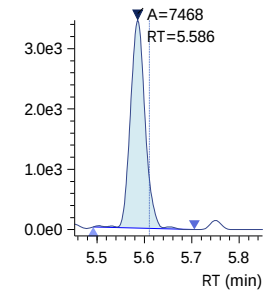
PFTrDA
Conc 0.0110
R#1 6.50 (15.29)
Q 663.00>618.90 (-) 2.20e3



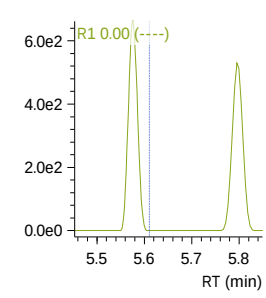
R1 662.90>169.00 (-) 2.12e2



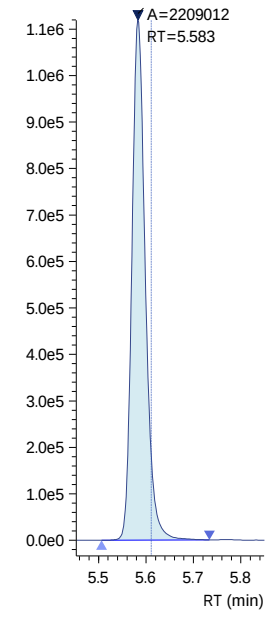
PFTeDA
Conc 0.0153
R#1 0.00 (17.47)
Q 713.00>669.00 (-) 3.47e3



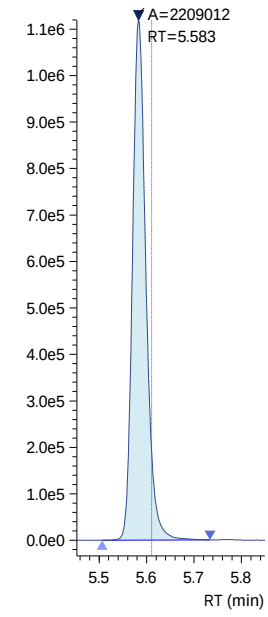
R1 713.00>169.10 (-) 6.62e2



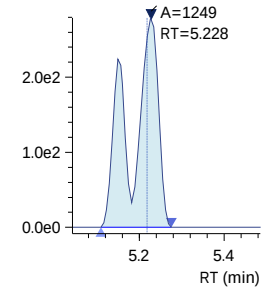
PFTeDA-13C
Conc 3.7207
Q 714.70>669.90 (-) 1.12e6

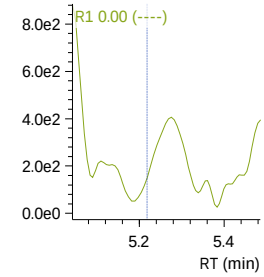


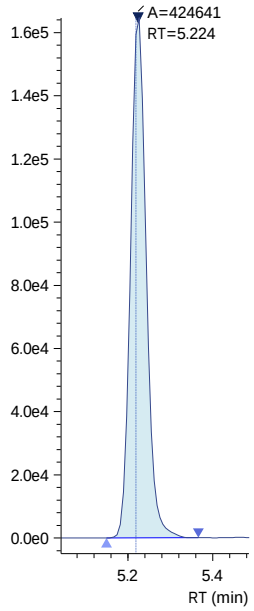
PFTeDA-13C_IS
Conc 5.0000
ISTD 714.70>669.90 (-) 1.12e6

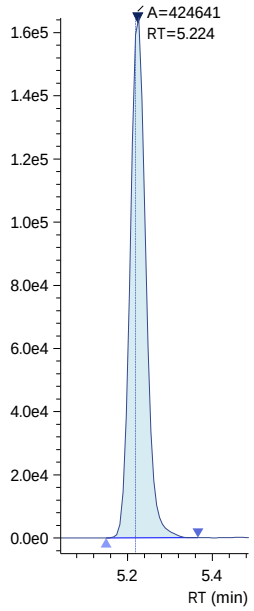


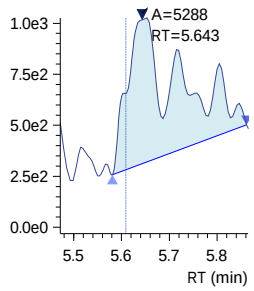
210914_022 (continued)

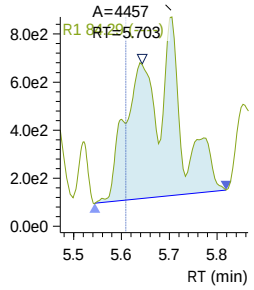
FOSA
Conc 0.0123
R#1 0.00 (5.19)
Q 498.20>78.00 (-) 2.79e2


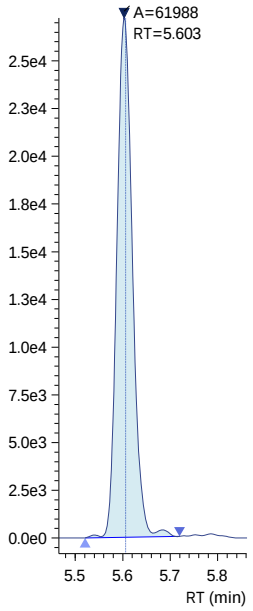
R1 498.20>64.10 (-) 8.85e2


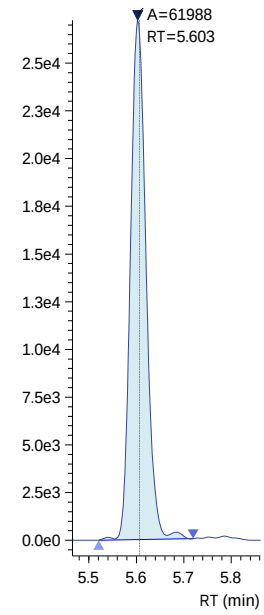
FOSA-13C
Conc 1.7238
Q 506.00>78.05 (-) 1.65e5


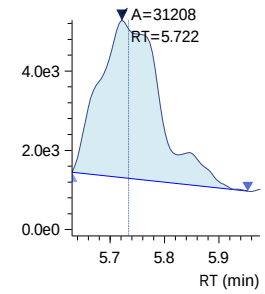
FOSA-13C_IS
Conc 5.0000
ISTD 506.00>78.05 (-) 1.65e5


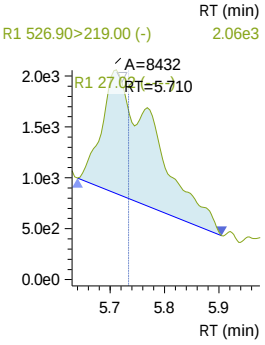
N-MeFOSA
Conc 0.2241
R#1 84.29 (69.94)
Q 512.00>169.10 (-) 1.03e3


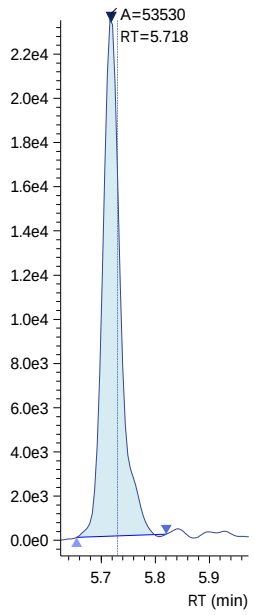
R1 512.00>219.00 (-) 8.71e2


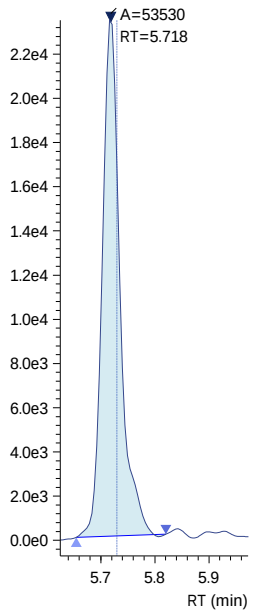
N-MeFOSA-d3
Conc 1.1215
Q 514.90>168.90 (-) 2.72e4


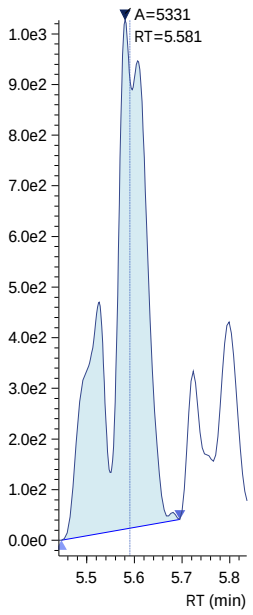
N-MeFOSA-d3_IS
Conc 5.0000
ISTD 514.90>168.90 (-) 2.72e4


N-EtFOSA
Conc 9.6190
R#1 27.02 (66.52)
Q 526.90>169.10 (-) 5.28e3


R1 526.90>219.00 (-) 2.06e3


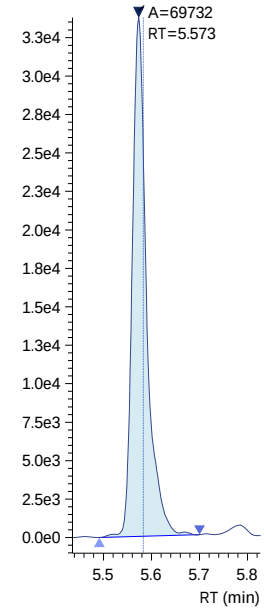
N-EtFOSA-d9
Conc 0.8313
Q 530.90>169.15 (-) 2.35e4


N-EtFOSA-d9_IS
Conc 5.0000
ISTD 530.90>169.15 (-) 2.35e4


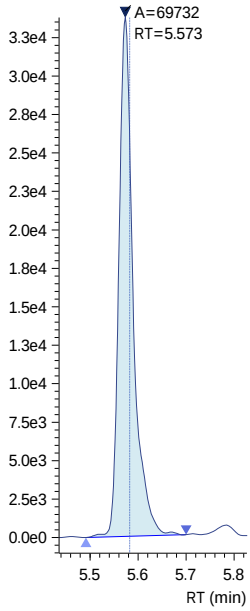
N-MeFOSE
Conc 0.2127
Q 616.00>59.00 (-) 1.03e3


210914_022 (continued)

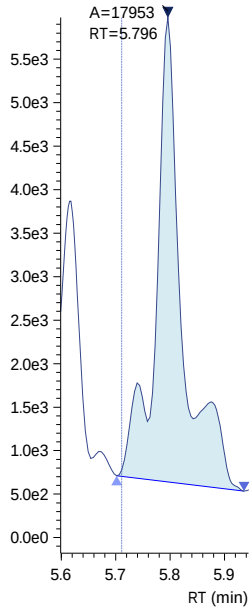
N-MeFOSE-d7
Conc 0.8193
Q 622.70>59.10 (-) 3.38e4



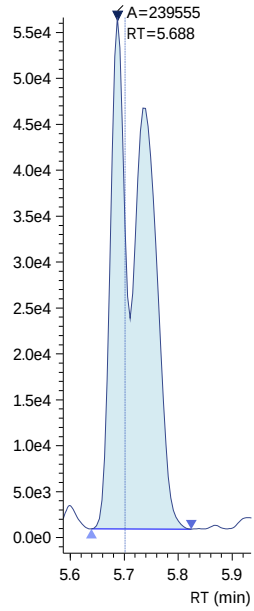
N-MeFOSE-d7_IS
Conc 5.0000
ISTD 622.70>59.10 (-) 3.38e4



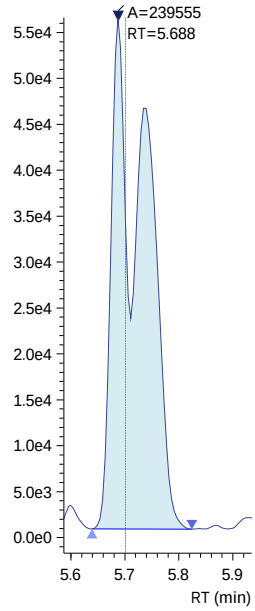
N-EtFOSE
Conc 0.2162
Q 630.00>58.90 (-) 5.98e3



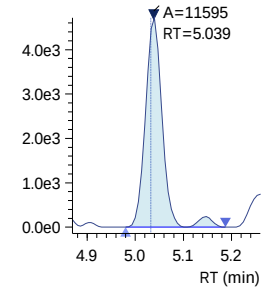
N-EtFOSE-d9
Conc 2.9722
Q 638.70>59.10 (-) 5.66e4



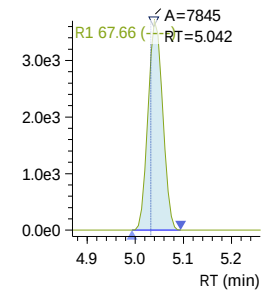
N-EtFOSE-d9_IS
Conc 5.0000
ISTD 638.70>59.10 (-) 5.66e4



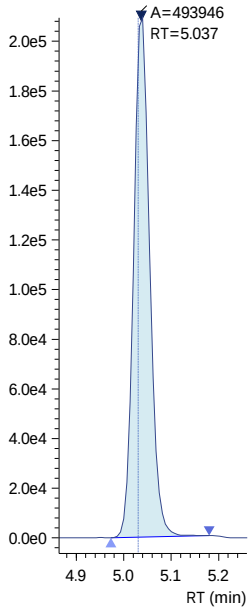
N-MeFOSAA
Conc 0.1499
R#1 67.66 (39.56)
Q 570.20>419.00 (-) 4.72e3



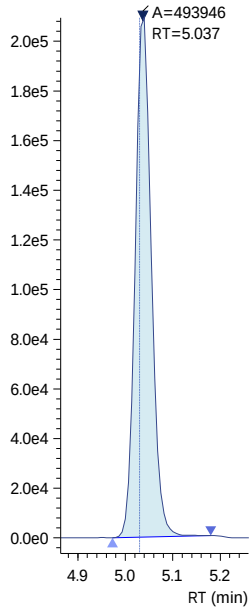
R1 570.20>512.00 (-) 3.70e3



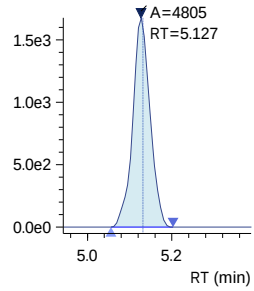
N-MeFOSAA-d3
Conc 5.0517
Q 572.80>419.05 (-) 2.09e5



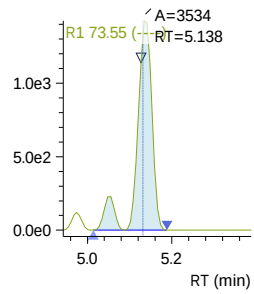
N-MeFOSAA-d3_IS
Conc 5.0000
ISTD 572.80>419.05 (-) 2.09e5



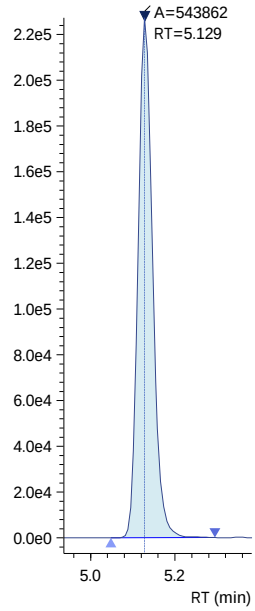
N-EtFOSAA
Conc 0.0839
R#1 73.55 (84.54)
Q 584.20>418.95 (-) 1.68e3



R1 584.20>526.10 (-) 1.43e3



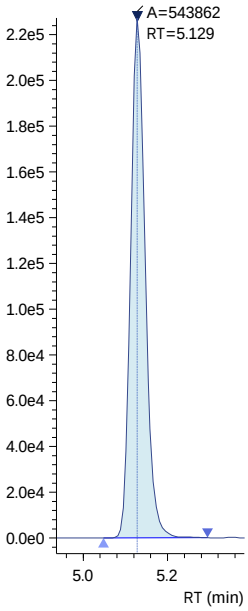
N-EtFOSAA-d5
Conc 6.5779
Q 588.80>419.00 (-) 2.27e5



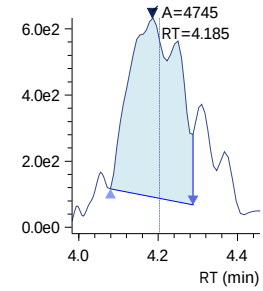
Insight Report
Before Manual Integration
Printed 9/14/2021 18:37:49

210914_022 (continued)

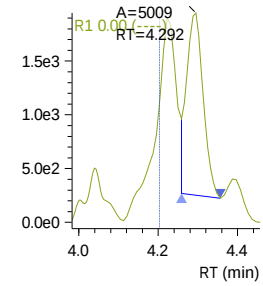
N-EtFOSAA-d5_IS
Conc 5.0000
ISTD 588.80>419.00 (-) 2.27e5



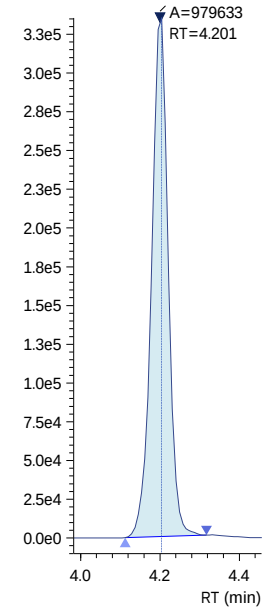
4_2-FTS_1
Conc 0.0268
R#1 0.00 (34.12)
Q 327.00>307.05 (-) 6.33e2



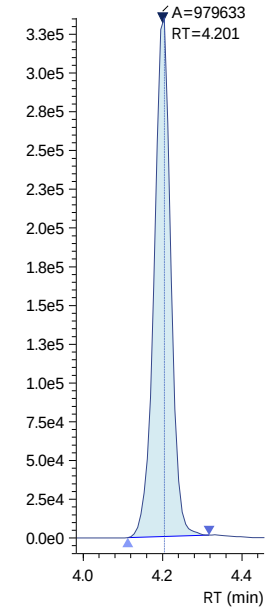
R1 327.00>81.10 (-) 1.95e3



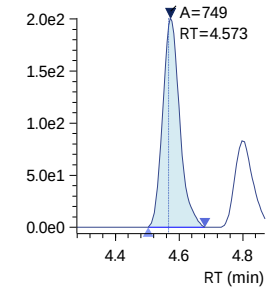
4_2-FTS-13C
Conc 10.6900
Q 328.80>309.05 (-) 3.36e5



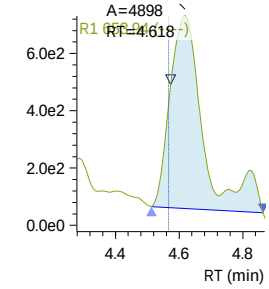
4_2-FTS-13C_IS
Conc 5.0000
ISTD 328.80>309.05 (-) 3.36e5



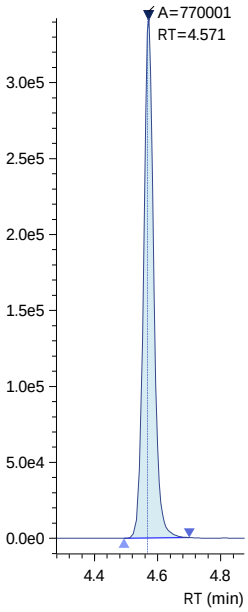
6_2-FTS_1
Conc 0.0037
R#1 653.94 (37.36)
Q 427.00>407.00 (-) 2.01e2



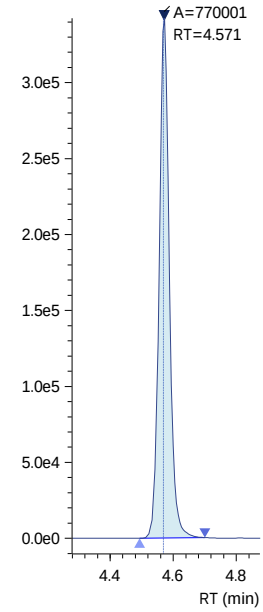
R1 427.00>80.90 (-) 7.31e2



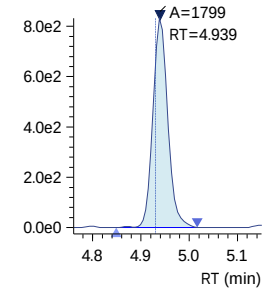
6_2-FTS-13C
Conc 9.9451
Q 428.90>409.00 (-) 3.42e5



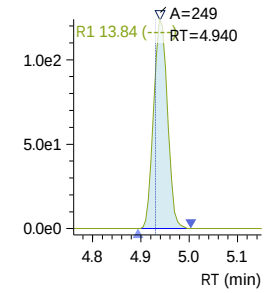
6_2-FTS-13C_IS
Conc 5.0000
ISTD 428.90>409.00 (-) 3.42e5



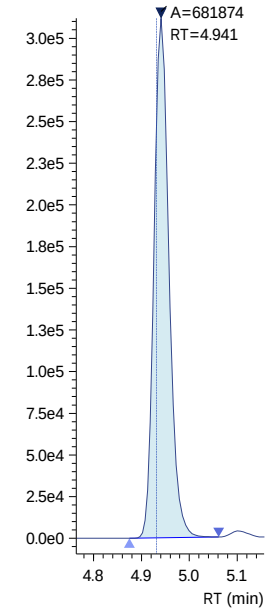
8_2-FTS_1
Conc 0.0138
R#1 13.84 (10.63)
Q 527.10>506.90 (-) 8.32e2



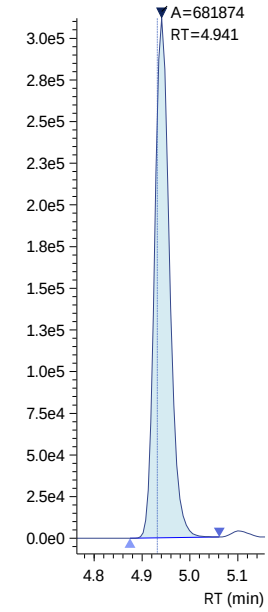
R1 527.20>487.00 (-) 1.24e2



8_2-FTS-13C
Conc 12.1148
Q 528.80>509.00 (-) 3.12e5

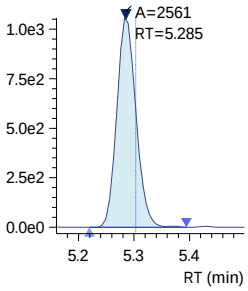


8_2-FTS-13C_IS
Conc 5.0000
ISTD 528.80>509.00 (-) 3.12e5

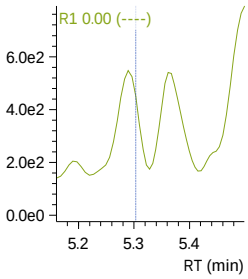


210914_022 (continued)

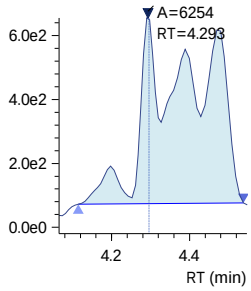
10_2-FtS_1
Conc 0.0242
R#1 0.00 (21.61)
Q 627.00>606.95 (-) 1.06e3



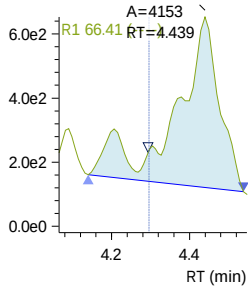
R1 627.00>81.25 (-) 7.92e2



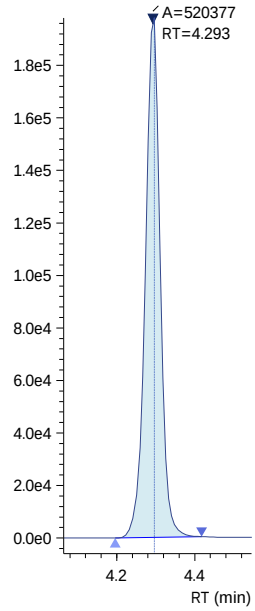
HPFO_DA
Conc 0.0601
R#1 66.41 (106.46)
Q 329.00>169.00 (-) 6.55e2



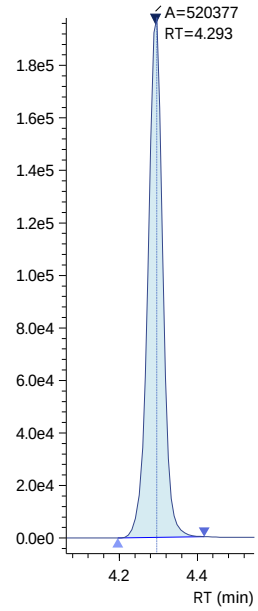
R1 329.00>285.10 (-) 6.53e2



HFPO_DA-13C
Conc 6.2704
Q 332.00>286.80 (-) 1.98e5



HFPO_DA-13C_IS
Conc 5.0000
ISTD 332.00>286.80 (-) 1.98e5



1st UA 08/30/21
2nd 08/31/21

Validation Report

Data File: J:\LCMS06\Data\210823_B3\210823_017
Lab ID: KQ2115525-04
RunType: MB
Matrix: Water

Date Acquired: 8/23/21 19:05
Batch ID: 736760
Analysis Method: PFC/537M/PFAS

Validations

Validation Categories	Pass	Fail
Analytical Hold Time	X	
ICAL Analyte Recovery	X	
Second Source ICAL Verification	X	
Continuing Calibration Recovery		X
Internal Standards	X	
Surrogates	X	
Std MRL Unsupported by ICAL	X	
Above Highest ICAL Level	X	

Analyte Exceptions

Exception Categories	Analyte Name	Result	Low Limit	High Limit	Corrective Action
Continuing Calibration Recovery	13C2-4:2 FTS	171	70	130	Native in control

Primary Review: _____

Secondary Review: _____

1st UA 08/30/21
2nd 08/31/21

Quantitation Report

Data File:	J:\LCMS06\Data\210823_B3\210823_017	**Instrument:**	K-LCMS-06
Acqu Date:	8/23/21 19:05	**Vial:**	3
Run Type:	MB	**Dilution:**	1
Lab ID:	KQ2115525-04	**Raw Units:**	ng/mL

Bottle ID:		**Tier:**	IV	**Matrix:**	Water
Prod Code:	PFAS	**Collect Date:**	8/5/21	**Receive Date:**	8/6/21

Analysis Lot:	736760	**Prep Lot:**	385310	**Report Group:**	KQ2115525
Analysis	PFC/537M	**Prep Method:**	ALS SOP		
		Prep Date:	8/18/21		

Title:	Per- and Polyfluoroalkyl Substances (PFAS) by LC/MS/MS	**Calibration ID:**	KC2100446
		Report List ID:	20091

Internal Standard Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	Area Criteria
13C7-PFUnDA	5.137	+0.00	4276589	5.0000	OK

Surrogate Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	% Rec	% Rec Criteria	Rpt?
13C3-PFBS	4.033	+0.00	437993	4.9609	99	20 - 109	Y
18O2-PFHxS	4.419	+0.00	275686	4.5796	92	26 - 122	Y
13C4-PFOS	4.754	+0.00	343509	4.5913	92	25 - 121	Y
13C4-PFBA	3.413	-0.01	1845336	5.2831	106	27 - 124	Y
13C5-PFPeA	3.977		1055840	4.5869	92	27 - 138	Y
13C2-PFHxA	4.236	+0.00	3039098	4.7951	96	28 - 132	Y
13C4-PFHpA	4.419	+0.00	3071190	4.7728	95	19 - 139	Y
13C4-PFOA	4.590	+0.01	3353159	4.6809	94	22 - 130	Y
13C5-PFNA	4.766	+0.00	2706087	4.9522	99	20 - 127	Y
13C2-PFDA	4.951	+0.00	1995119	4.9397	99	24 - 125	Y
13C2-PFUnDA	5.137	+0.00	2430335	4.5163	90	22 - 125	Y
13C2-PFDoDA	5.317	+0.01	2589243	4.3925	88	19 - 122	Y
13C2-PFTeDA	5.640	+0.01	1881774	4.7172	94	13 - 124	Y
13C8-FOSA	5.239	+0.01	1192409	4.6938	94	18 - 109	Y
D3-MeFOSA	5.629	+0.01	241497	4.0884	82	15 - 153	Y
D5-EtFOSA	5.759	+0.01	294290	4.3849	88	25 - 107	Y
D7-MeFOSE	5.605	+0.01	261084	4.4200	88	24 - 112	Y
D9-EtFOSE	5.730	+0.01	302980	4.9543	99	19 - 109	Y
D3-MeFOSAA	5.050	+0.01	218953	4.5448	91	9 - 123	Y
D5-EtFOSAA	5.148	+0.00	211389	4.7133	94	12 - 126	Y
13C2-4:2 FTS	4.210	+0.00	401858	4.0890	82	10 - 197	Y
13C2-6:2 FTS	4.580	+0.00	402446	4.3347	87	10 - 226	Y
13C2-8:2 FTS	4.949	+0.00	259395	5.2492	105	10 - 202	Y
13C3-HFPO-DA	4.304	+0.00	581510	5.2626	105	22 - 135	Y

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

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1st UA 08/30/21
2nd 08/31/21

Data File:	J:\LCMS06\Data\210823_B3\210823_017	**Instrument:**	K-LCMS-06
Acqu Date:	8/23/21 19:05	**Vial:**	3
Run Type:	MB	**Dilution:**	1
Lab ID:	KQ2115525-04	**Raw Units:**	ng/mL

Target Compounds

Final Conc.Units: ng/L

Parameter Name	RT	RT Dev	Response	Solution Conc	Final Conc	Q	Rpt?
Perfluorobutane sulfonic acid (PFBS)	4.036	+0.00	139	0.0009	0.029	U	Y
Perfluoropentane sulfonic acid (PFPeS)	4.307	+0.06	880	0.0102	0.33	U	Y
Perfluorohexane sulfonic acid (PFHxS)	4.430	+0.02	607	-0.0149	0	U	Y
Perfluoroheptane sulfonic acid (PFHpS)	0		0	0	0	U	Y
Perfluorooctane sulfonic acid (PFOS)	4.749	0.00	130	0.0020	0.064	U	Y
Perfluorononane sulfonic acid (PFNS)	4.920	-0.01	32	0.0005	0.016	U	Y
Perfluorodecane sulfonic acid (PFDS)	0		0	0	0	U	Y
Perfluorobutanoic acid (PFBA)	0		0	0	0	U	Y
Perfluoropentanoic acid (PFPeA)	3.977		7612	0.0113	0.36	U	Y
Perfluorohexanoic acid (PFHxA)	4.236	+0.00	12533	0.0152	0.49	U	Y
Perfluoroheptanoic acid (PFHpA)	4.417	+0.00	2607	0.0039	0.12	U	Y
Perfluorooctanoic acid (PFOA)	4.588	+0.00	6852	0.0066	0.21	U	Y
Perfluorononanoic acid (PFNA)	4.777	+0.02	2884	0.0043	0.14	U	Y
Perfluorodecanoic acid (PFDA)	4.954	+0.01	1820	0.0031	0.099	U	Y
Perfluoroundecanoic acid (PFUnDA)	5.138	+0.01	2401	0.0041	0.13	U	Y
Perfluorododecanoic acid (PFDoDA)	0		0	0	0	U	Y
Perfluorotridecanoic acid (PFTrDA)	5.477	-0.01	1735	0.0031	0.099	U	Y
Perfluorotetradecanoic acid (PFTeDA)	5.639	+0.00	2380	0.0056	0.18	U	Y
Perfluorooctane sulfonamide (FOSA)	5.241	+0.01	512	0.0017	0.054	U	Y
N-Methyl perfluorooctane sulfonamide (MeFOSA)	5.631	+0.01	686	0.0076	0.24	U	Y
N-Ethyl perfluorooctane sulfonamide (EtFOSA)	0		0	0	0	U	Y
N-Methyl perfluorooctane sulfonamidoethanol	5.639	+0.03	621	0.0054	0.17	U	Y
N-Ethyl perfluorooctane sulfonamidoethanol	0		0	0	0	U	Y
N-Methyl perfluorooctane sulfonamidoacetic acid	0		0	0	0	U	Y
N-Ethyl perfluorooctane sulfonamidoacetic acid	0		0	0	0	U	Y
4:2 Fluorotelomer sulfonic acid (4:2 FTS)	4.189	-0.02	179	0.0022	0.070	U	Y
6:2 Fluorotelomer sulfonic acid (6:2 FTS)	4.576	+0.00	451	0.0040	0.13	U	Y
8:2 Fluorotelomer sulfonic acid (8:2 FTS)	4.947	+0.00	30	0.0005	0.016	U	Y
10:2 Fluorotelomer sulfonic acid (10:2 FTS)	0		0	0	0	U	Y
Hexafluoropropylene oxide dimer acid (HFPO-DA)	4.308	+0.01	93	0.0009	0.029	U	Y

Prep Amount:	250 mL	**Dilution:**	1
Prep Final Amount:	8.00 mL	**Basis Factor:**	100.00

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

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Insight Report
Ion Ratio Confirmation
Printed 8/27/2021 17:48:55

210823_017

Sample ID: KQ2115525-04
Date Acquired: 8/23/2021 7:05:37 PM
Acquired by: System Administrator
Data File: 210823_017
Vial: 3 | Inj. Volume: 15.0000uL | Tray: 3

Name	m/z	Ref 1 m/z	Area	Ref 1 Measured	Ref 1 Actual Ratio	Ref 1 Set Ratio	Comment 1	Flag ID	
13C7-PFUnDA_IS	570.00>525.00	----	4276589	----	----	----			
PFBS_1	299.00>80.00	298.80>99.00	139	205	147.48	47.76	23.88-71.64	IRr	U
PFBS-13C	301.80>80.00	----	437993	----	----	----	0-0		
PFBS-13C_IS	301.80>80.00	----	437993	----	----	----	0-0		
PFPeS	349.00>99.00	349.00>79.95	880	-40	-4.54	136.08	68.04-204.13	IRr, SN	U
PFHxS_1	399.00>80.00	399.00>99.00	607	331	54.47	71.26	35.63-106.89		
PFHxS-18O	402.70>84.05	----	275686	----	----	----	0-0		
PFHxS-18O_IS	402.70>84.05	----	275686	----	----	----	0-0		
PFHpS_1	449.00>80.15	449.00>99.20	----	0	0.00	53.84	26.92-80.76		
PFOS_1	499.00>80.00	499.00>99.00	130	0	0.00	86.72	43.36-130.08	IRr	U
PFOS-13C	502.80>80.05	----	343509	----	----	----	0-0		
PFOS-13C_IS	502.80>80.05	----	343509	----	----	----	0-0		
PFNS	549.00>99.00	549.00>79.95	32	0	0.00	129.18	64.59-193.78	IRr, SN	U
PFDS_1	599.00>79.90	599.00>99.10	----	0	0.00	90.77	45.38-136.15		
PFBA	213.00>169.10	----	----	----	----	----			
PFBA-13C	216.90>172.15	----	1845336	----	----	----			
PFBA-13C_IS	216.90>172.15	----	1845336	----	----	----			
PFPeA	263.05>219.10	----	7612	----	----	----			
PFPeA-13C	267.90>223.00	----	1055840	----	----	----	0-0		
PFPeA-13C_IS	267.90>223.00	----	1055840	----	----	----	0-0		
PFHxA	313.00>269.00	313.00>119.10	12533	675	5.38	4.17	2.08-6.25		
PFHxA-13C	314.90>270.10	----	3039098	----	----	----	0-0		
PFHxA-13C_IS	314.90>270.10	----	3039098	----	----	----	0-0		
PFHpA	362.90>319.00	362.90>169.00	2607	16	0.61	26.04	13.02-39.07	IRr	U
PFHpA-13C	366.90>322.10	----	3071190	----	----	----	0-0		
PFHpA-13C_IS	366.90>322.10	----	3071190	----	----	----	0-0		
PFOA	413.00>369.00	413.00>169.10	6852	2193	32.01	30.35	15.18-45.53		
PFOA-13C	416.80>372.05	----	3353159	----	----	----	0-0		
PFOA-13C_IS	416.80>372.05	----	3353159	----	----	----	0-0		
PFNA	463.00>418.90	463.00>219.00	2884	0	0.00	22.35	11.18-33.53	IRr	U
PFNA-13C	467.80>423.00	----	2706087	----	----	----	0-0		
PFNA-13C_IS	467.80>423.00	----	2706087	----	----	----	0-0		
PFDA	513.00>468.80	513.00>219.10	1820	147	8.09	18.73	9.36-28.09	IRr	U
PFDA-13C	514.80>469.95	----	1995119	----	----	----	0-0		
PFDA-13C_IS	514.80>469.95	----	1995119	----	----	----	0-0		
PFUnA	563.00>518.90	563.00>219.00	2401	0	0.00	11.60	5.8-17.4	IRr, SN	U
PFUnA-13C	564.80>519.95	----	2430335	----	----	----	0-0		
PFUnA-13C_IS	564.80>519.95	----	2430335	----	----	----	0-0		
PFDoA	613.05>569.00	613.05>169.00	----	0	0.00	15.11	7.55-22.66		
PFDoA-13C	614.80>569.95	----	2589243	----	----	----	0-0		
PFDoA-13C_IS	614.80>569.95	----	2589243	----	----	----	0-0		
PFTrDA	663.00>618.90	662.90>169.00	1735	0	0.00	14.19	7.09-21.28	IRr	U
PFTeDA	713.00>669.00	713.00>169.10	2380	144	6.05	14.98	7.49-22.46	IRr	U
PFTeDA-13C	714.70>669.90	----	1881774	----	----	----	0-0		
PFTeDA-13C_IS	714.70>669.90	----	1881774	----	----	----	0-0		
FOSA	498.20>78.00	498.20>64.10	512	0	0.00	4.89	2.44-7.33	IRr	U
FOSA-13C	506.00>78.05	----	1192409	----	----	----	0-0		
FOSA-13C_IS	506.00>78.05	----	1192409	----	----	----	0-0		
N-MeFOSA	512.00>169.10	512.00>219.00	686	89	12.97	62.72	31.36-94.08	IRr, SN	U
N-MeFOSA-d3	514.90>168.90	----	241497	----	----	----	0-0		

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Comment 1 field specifies acceptance range for Ref 1 ratio.
IRr - Ion ratio outside criteria. Exceedances for results above the MDL to be "K" flagged in the analytical report.

Insight Report
Ion Ratio Confirmation
Printed 8/27/2021 17:48:55

210823_017 (continued)

(Table continued from previous page)

Name	m/z	Ref 1 m/z	Area	Ref 1 Measured	Ref 1 Actual Ratio	Ref 1 Set Ratio	Comment 1	Flag ID
N-MeFOSA-d3_IS	514.90>168.90	----	241497	----	----	----	0-0	
N-EtFOSA	526.90>169.10	526.90>219.00	----	0	0.00	63.35	31.68-95.03	
N-EtFOSA-d9	530.90>169.15	----	294290	----	----	----	0-0	
N-EtFOSA-d9_IS	530.90>169.15	----	294290	----	----	----	0-0	
N-MeFOSE	616.00>59.00	----	621	----	----	----		SN U
N-MeFOSE-d7	622.70>59.10	----	261084	----	----	----		
N-MeFOSE-d7_IS	622.70>59.10	----	261084	----	----	----		
N-EtFOSE	630.00>58.90	----	----	----	----	----		
N-EtFOSE-d9	638.70>59.10	----	302980	----	----	----	0-0	
N-EtFOSE-d9_IS	638.70>59.10	----	302980	----	----	----	0-0	
N-MeFOSAA	570.20>419.00	570.20>512.00	----	0	0.00	35.26	17.63-52.88	
N-MeFOSAA-d3	572.80>419.05	----	218953	----	----	----	0-0	
N-MeFOSAA-d3_IS	572.80>419.05	----	218953	----	----	----	0-0	
N-EtFOSAA	584.20>418.95	584.20>526.10	----	0	0.00	77.25	38.62-115.87	
N-EtFOSAA-d5	588.80>419.00	----	211389	----	----	----	0-0	
N-EtFOSAA-d5_IS	588.80>419.00	----	211389	----	----	----	0-0	
4_2-FTS_1	327.00>307.05	327.00>81.10	179	2803	1563.49	39.85	19.92-59.77	IRr U
4_2-FTS-13C	328.80>309.05	----	401858	----	----	----	0-0	
4_2-FTS-13C_IS	328.80>309.05	----	401858	----	----	----	0-0	
6_2-FTS_1	427.00>407.00	427.00>80.90	451	320	70.95	29.95	14.97-44.92	IRr U
6_2-FTS-13C	428.90>409.00	----	402446	----	----	----	0-0	
6_2-FTS-13C_IS	428.90>409.00	----	402446	----	----	----	0-0	
8_2-FTS_1	527.10>506.90	527.20>487.00	30	0	0.00	9.42	4.71-14.13	IRr U
8_2-FTS-13C	528.80>509.00	----	259395	----	----	----	0-0	
8_2-FTS-13C_IS	528.80>509.00	----	259395	----	----	----	0-0	
10_2-FtS_1	627.00>606.95	627.00>81.25	----	0	0.00	49.86	24.93-74.78	
HPFO_DA	329.00>169.00	329.00>285.10	93	87	93.55	101.52	50.76-152.28	SN U
HFPO_DA-13C	332.00>286.80	----	581510	----	----	----		
HFPO_DA-13C_IS	332.00>286.80	----	581510	----	----	----		

Flag ID key: IRr: Ion Ratio (Relative), SN: S/N

Comment 1 field specifies acceptance range for Ref 1 ratio.
IRr - Ion ratio outside criteria. Exceedances for results above the MDL to be "K" flagged in the analytical report.

Insight Report
Quantitation/Integration
Printed 8/30/2021 19:23:48

210823_017

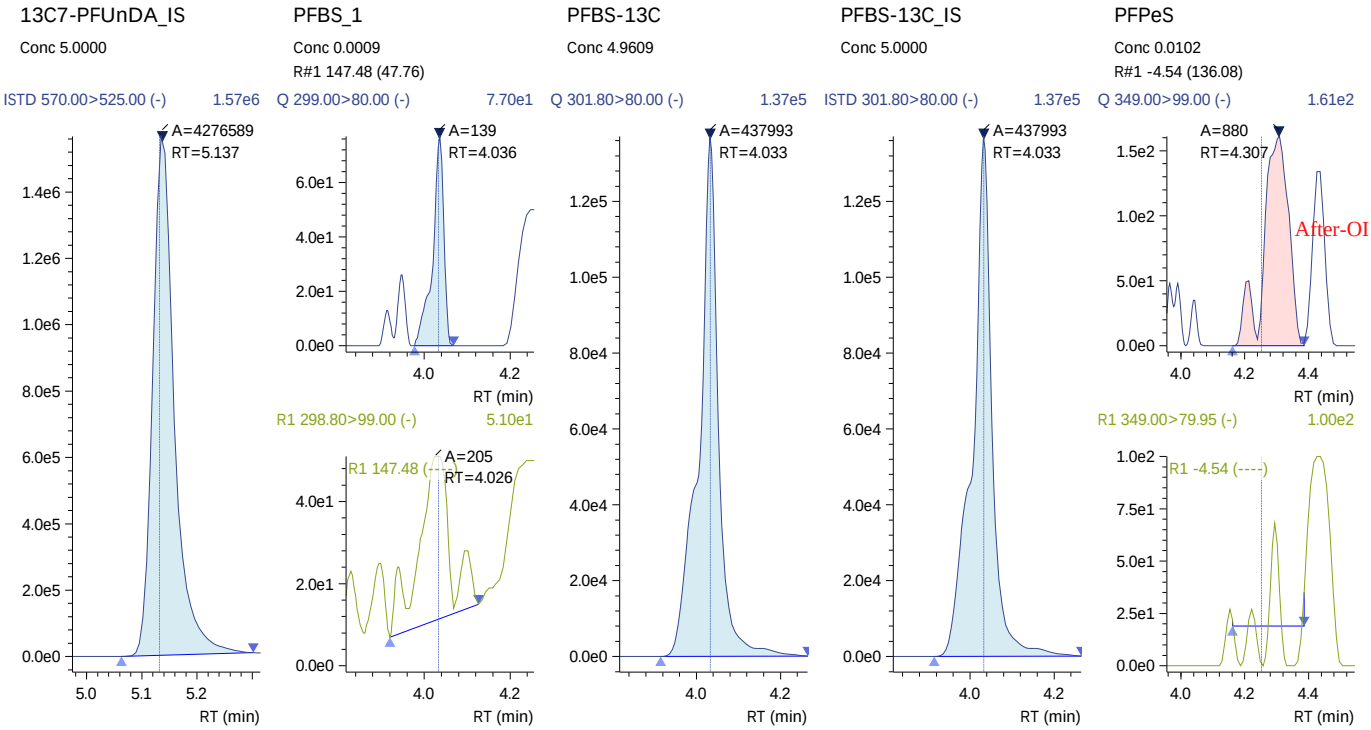
Sample ID: KQ2115525-04
Date Acquired: 8/23/2021 7:05:37 PM
Acquired by: System Administrator
Data File: 210823_017
Vial: 3 | Inj. Volume: 15.0000uL | Tray: 3

Name	Mode ID	Found RT	Area	ISTD Area	ISTD Name	Std. Conc.	Conc.	Unit
13C7-PFUnDA_IS	Auto	5.137	4276589	4276589	----	----	5.0000	ng/mL
PFBS_1	Auto	4.036	139	437993	PFBS-13C_IS	----	0.0009	ng/mL
PFBS-13C	Auto	4.033	437993	4276589	13C7-PFUnDA_IS	----	4.9609	ng/mL
PFBS-13C_IS	Auto	4.033	437993	437993	----	----	5.0000	ng/mL
PFPeS	M	4.307	880	437993	PFBS-13C_IS	----	0.0102	ng/mL
PFHxS_1	M	4.430	607	275686	PFHxS-18O_IS	----	-0.0149	ng/mL
PFHxS-18O	Auto	4.419	275686	4276589	13C7-PFUnDA_IS	----	4.5796	ng/mL
PFHxS-18O_IS	Auto	4.419	275686	275686	----	----	5.0000	ng/mL
PFHpS_1	ND(W/B)	----	----	275686	PFHxS-18O_IS	----	----	ng/mL
PFOS_1	Auto	4.749	130	343509	PFOS-13C_IS	----	0.0020	ng/mL
PFOS-13C	Auto	4.754	343509	4276589	13C7-PFUnDA_IS	----	4.5913	ng/mL
PFOS-13C_IS	Auto	4.754	343509	343509	----	----	5.0000	ng/mL
PFNS	M	4.920	32	343509	PFOS-13C_IS	----	0.0005	ng/mL
PFDS_1	ND(W/B)	----	----	343509	PFOS-13C_IS	----	----	ng/mL
PFBA	ND(W/B)	----	----	1845336	PFBA-13C_IS	----	----	ng/mL
PFBA-13C	Auto	3.413	1845336	4276589	13C7-PFUnDA_IS	----	5.2831	ng/mL
PFBA-13C_IS	Auto	3.413	1845336	1845336	----	----	5.0000	ng/mL
PFPeA	M	3.977	7612	1055840	PFPeA-13C_IS	----	0.0113	ng/mL
PFPeA-13C	Auto	3.977	1055840	4276589	13C7-PFUnDA_IS	----	4.5869	ng/mL
PFPeA-13C_IS	Auto	3.977	1055840	1055840	----	----	5.0000	ng/mL
PFHxA	M	4.236	12533	3039098	PFHxA-13C_IS	----	0.0152	ng/mL
PFHxA-13C	Auto	4.236	3039098	4276589	13C7-PFUnDA_IS	----	4.7951	ng/mL
PFHxA-13C_IS	Auto	4.236	3039098	3039098	----	----	5.0000	ng/mL
PFHpA	M	4.417	2607	3071190	PFHpA-13C_IS	----	0.0039	ng/mL
PFHpA-13C	Auto	4.419	3071190	4276589	13C7-PFUnDA_IS	----	4.7728	ng/mL
PFHpA-13C_IS	Auto	4.419	3071190	3071190	----	----	5.0000	ng/mL
PFOA	M	4.588	6852	3353159	PFOA-13C_IS	----	0.0066	ng/mL
PFOA-13C	Auto	4.590	3353159	4276589	13C7-PFUnDA_IS	----	4.6809	ng/mL
PFOA-13C_IS	Auto	4.590	3353159	3353159	----	----	5.0000	ng/mL
PFNA	Auto	4.777	2884	2706087	PFNA-13C_IS	----	0.0043	ng/mL
PFNA-13C	Auto	4.766	2706087	4276589	13C7-PFUnDA_IS	----	4.9522	ng/mL
PFNA-13C_IS	Auto	4.766	2706087	2706087	----	----	5.0000	ng/mL
PFDA	M	4.954	1820	1995119	PFDA-13C_IS	----	0.0031	ng/mL
PFDA-13C	Auto	4.951	1995119	4276589	13C7-PFUnDA_IS	----	4.9397	ng/mL
PFDA-13C_IS	Auto	4.951	1995119	1995119	----	----	5.0000	ng/mL
PFUnA	Auto	5.138	2401	2430335	PFUnA-13C_IS	----	0.0041	ng/mL
PFUnA-13C	Auto	5.137	2430335	4276589	13C7-PFUnDA_IS	----	4.5163	ng/mL
PFUnA-13C_IS	Auto	5.137	2430335	2430335	----	----	5.0000	ng/mL
PFDoA	ND(W/B)	----	----	2589243	PFDoA-13C_IS	----	----	ng/mL
PFDoA-13C	Auto	5.317	2589243	4276589	13C7-PFUnDA_IS	----	4.3925	ng/mL
PFDoA-13C_IS	Auto	5.317	2589243	2589243	----	----	5.0000	ng/mL
PFTrDA	M	5.477	1735	1881774	PFTeDA-13C_IS	----	0.0031	ng/mL
PFTeDA	M	5.639	2380	1881774	PFTeDA-13C_IS	----	0.0056	ng/mL
PFTeDA-13C	Auto	5.640	1881774	4276589	13C7-PFUnDA_IS	----	4.7172	ng/mL
PFTeDA-13C_IS	Auto	5.640	1881774	1881774	----	----	5.0000	ng/mL
FOSA	Auto	5.241	512	1192409	FOSA-13C_IS	----	0.0017	ng/mL
FOSA-13C	Auto	5.239	1192409	4276589	13C7-PFUnDA_IS	----	4.6938	ng/mL
FOSA-13C_IS	Auto	5.239	1192409	1192409	----	----	5.0000	ng/mL
N-MeFOSA	M	5.631	686	241497	N-MeFOSA-d3_IS	----	0.0076	ng/mL
N-MeFOSA-d3	Auto	5.629	241497	4276589	13C7-PFUnDA_IS	----	4.0884	ng/mL
N-MeFOSA-d3_IS	Auto	5.629	241497	241497	----	----	5.0000	ng/mL
N-EtFOSA	ND(W/B)	----	----	294290	N-EtFOSA-d9_IS	----	----	ng/mL
N-EtFOSA-d9	Auto	5.759	294290	4276589	13C7-PFUnDA_IS	----	4.3849	ng/mL
N-EtFOSA-d9_IS	Auto	5.759	294290	294290	----	----	5.0000	ng/mL

210823_017 (continued)

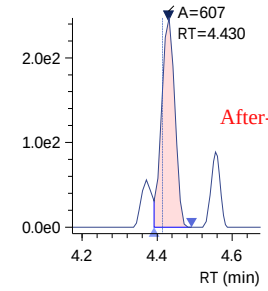
(Table continued from previous page)

Name	Mode ID	Found RT	Area	ISTD Area	ISTD Name	Std. Conc.	Conc.	Unit
N-MeFOSE	M	5.639	621	261084	N-MeFOSE-d7_IS	----	0.0054	ng/mL
N-MeFOSE-d7	Auto	5.605	261084	4276589	13C7-PFUnDA_IS	----	4.4200	ng/mL
N-MeFOSE-d7_IS	Auto	5.605	261084	261084	----	----	5.0000	ng/mL
N-EtFOSE	ND(W/B)	----	----	302980	N-EtFOSE-d9_IS	----	----	ng/mL
N-EtFOSE-d9	Auto	5.730	302980	4276589	13C7-PFUnDA_IS	----	4.9543	ng/mL
N-EtFOSE-d9_IS	Auto	5.730	302980	302980	----	----	5.0000	ng/mL
N-MeFOSAA	ND(W/B)	----	----	218953	N-MeFOSAA-d3_IS	----	----	ng/mL
N-MeFOSAA-d3	Auto	5.050	218953	4276589	13C7-PFUnDA_IS	----	4.5448	ng/mL
N-MeFOSAA-d3_IS	Auto	5.050	218953	218953	----	----	5.0000	ng/mL
N-EtFOSAA	ND(W/B)	----	----	211389	N-EtFOSAA-d5_IS	----	----	ng/mL
N-EtFOSAA-d5	Auto	5.148	211389	4276589	13C7-PFUnDA_IS	----	4.7133	ng/mL
N-EtFOSAA-d5_IS	Auto	5.148	211389	211389	----	----	5.0000	ng/mL
4_2-FTS_1	Auto	4.189	179	401858	4_2-FTS-13C_IS	----	0.0022	ng/mL
4_2-FTS-13C	Auto	4.210	401858	4276589	13C7-PFUnDA_IS	----	4.0890	ng/mL
4_2-FTS-13C_IS	Auto	4.210	401858	401858	----	----	5.0000	ng/mL
6_2-FTS_1	Auto	4.576	451	402446	6_2-FTS-13C_IS	----	0.0040	ng/mL
6_2-FTS-13C	Auto	4.580	402446	4276589	13C7-PFUnDA_IS	----	4.3347	ng/mL
6_2-FTS-13C_IS	Auto	4.580	402446	402446	----	----	5.0000	ng/mL
8_2-FTS_1	Auto	4.947	30	259395	8_2-FTS-13C_IS	----	0.0005	ng/mL
8_2-FTS-13C	Auto	4.949	259395	4276589	13C7-PFUnDA_IS	----	5.2492	ng/mL
8_2-FTS-13C_IS	Auto	4.949	259395	259395	----	----	5.0000	ng/mL
10_2-FtS_1	ND(W/B)	----	----	259395	8_2-FTS-13C_IS	----	----	ng/mL
HPFO_DA	M	4.308	93	581510	HFPO_DA-13C_IS	----	0.0009	ng/mL
HFPO_DA-13C	Auto	4.304	581510	4276589	13C7-PFUnDA_IS	----	5.2626	ng/mL
HFPO_DA-13C_IS	Auto	4.304	581510	581510	----	----	5.0000	ng/mL

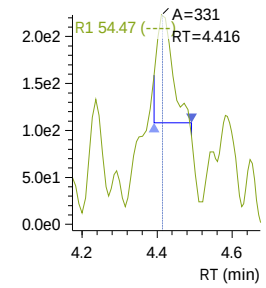


210823_017 (continued)

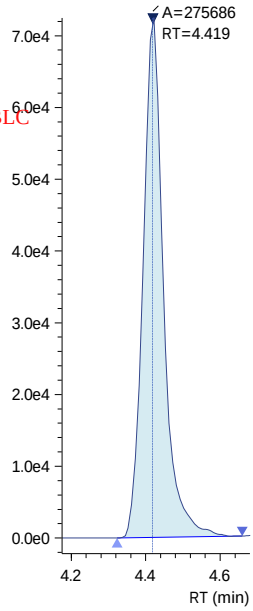
PFHxS_1
Conc -0.0149
R#1 54.47 (71.26)
Q 399.00>80.00 (-) 2.47e2



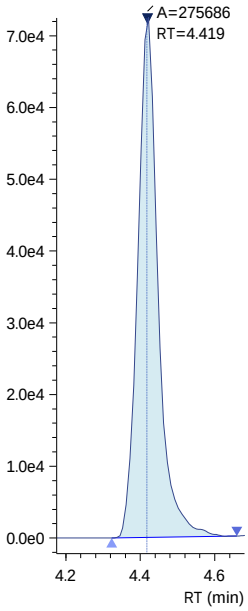
R1 399.00>99.00 (-) 2.23e2



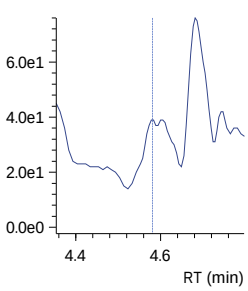
PFHxS-18O
Conc 4.5796
Q 402.70>84.05 (-) 7.25e4



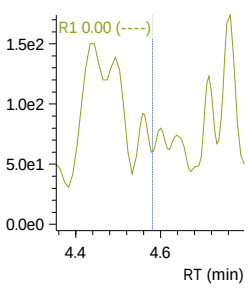
PFHxS-18O_IS
Conc 5.0000
ISTD 402.70>84.05 (-) 7.25e4



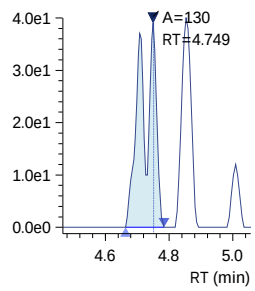
PFHpS_1
Conc ----
R#1 0.00 (53.84)
Q 449.00>80.15 (-) 7.60e1



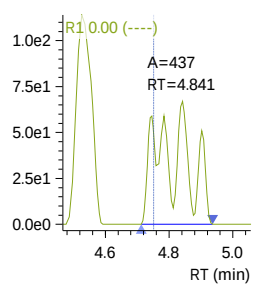
R1 449.00>99.20 (-) 1.74e2



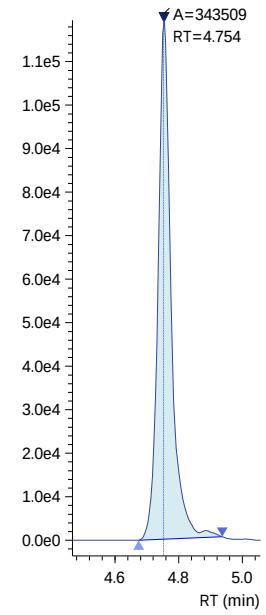
PFOS_1
Conc 0.0020
R#1 0.00 (86.72)
Q 499.00>80.00 (-) 4.00e1



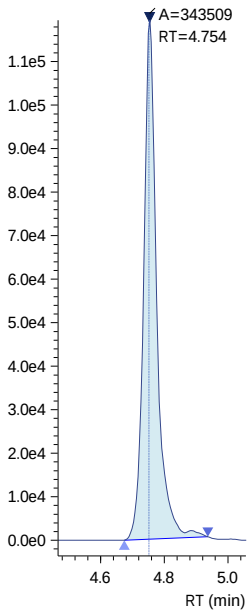
R1 499.00>99.00 (-) 1.14e2



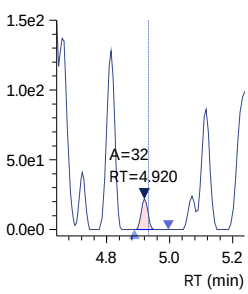
PFOS-13C
Conc 4.5913
Q 502.80>80.05 (-) 1.20e5



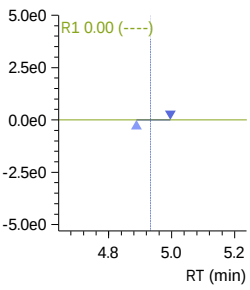
PFOS-13C_IS
Conc 5.0000
ISTD 502.80>80.05 (-) 1.20e5



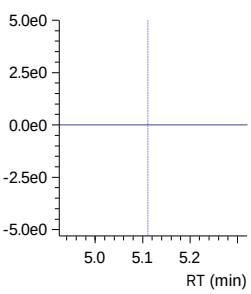
PFNS
Conc 0.0005
R#1 0.00 (129.18)
Q 549.00>99.00 (-) 1.50e2



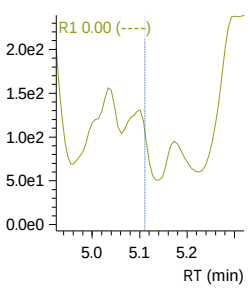
R1 549.00>79.95 (-) 0.00e0



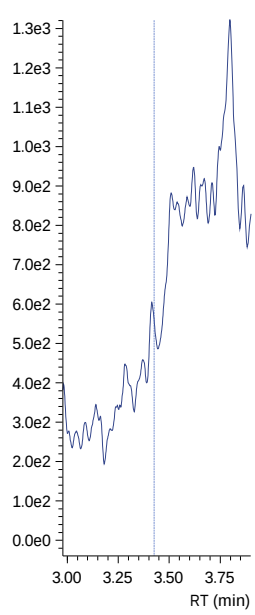
PFDS_1
Conc ----
R#1 0.00 (90.77)
Q 599.00>79.90 (-) 0.00e0



R1 599.00>99.10 (-) 2.39e2

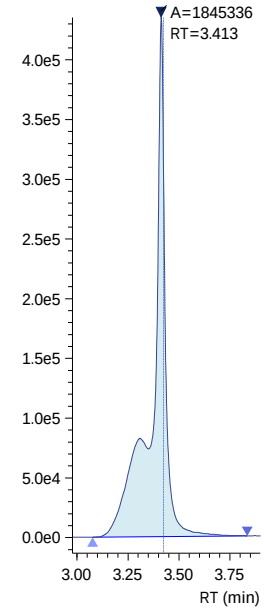


PFBA
Conc ----
Q 213.00>169.10 (-) 1.32e3

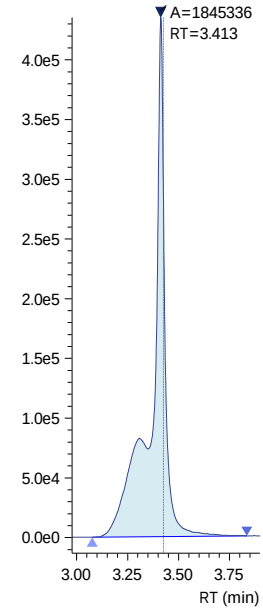


210823_017 (continued)

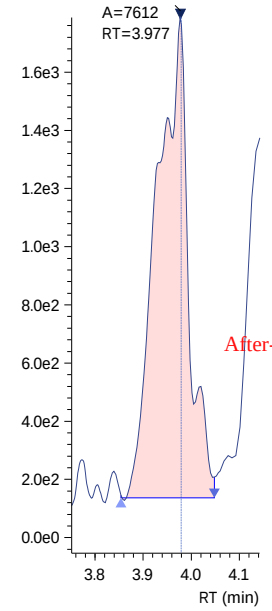
PFBA-13C
Conc 5.2831
Q 216.90>172.15 (-) 4.35e5



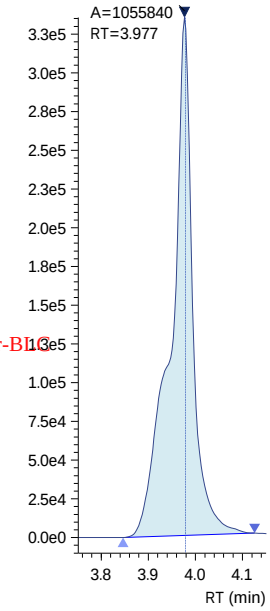
PFBA-13C_IS
Conc 5.0000
ISTD 216.90>172.15 (-) 4.35e5



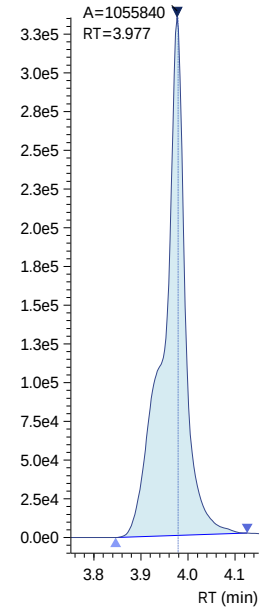
PFPeA
Conc 0.0113
Q 263.05>219.10 (-) 1.79e3



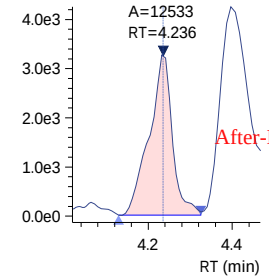
PFPeA-13C
Conc 4.5869
Q 267.90>223.00 (-) 3.36e5



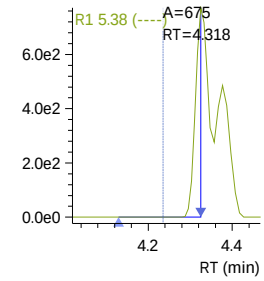
PFPeA-13C_IS
Conc 5.0000
ISTD 267.90>223.00 (-) 3.36e5



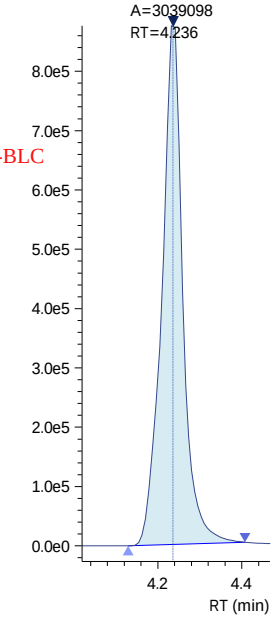
PFHxA
Conc 0.0152
R#1 5.38 (4.17)
Q 313.00>269.00 (-) 4.26e3



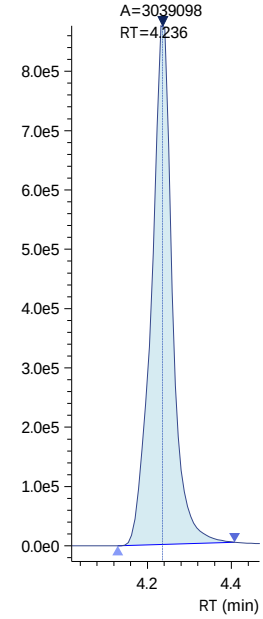
R1 313.00>119.10 (-) 7.72e2



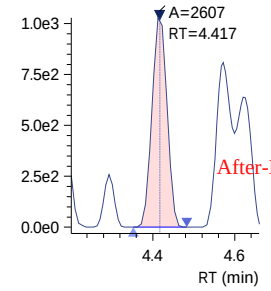
PFHxA-13C
Conc 4.7951
Q 314.90>270.10 (-) 8.77e5



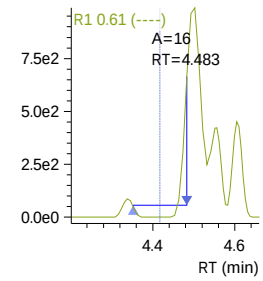
PFHxA-13C_IS
Conc 5.0000
ISTD 314.90>270.10 (-) 8.77e5



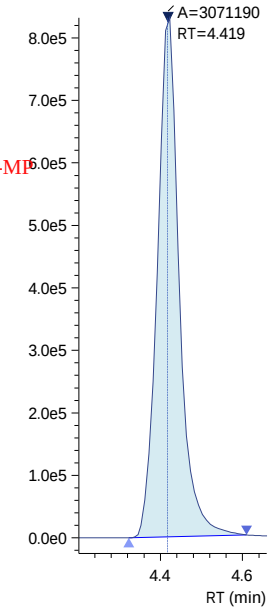
PFHpA
Conc 0.0039
R#1 0.61 (26.04)
Q 362.90>319.00 (-) 1.03e3



R1 362.90>169.00 (-) 9.90e2



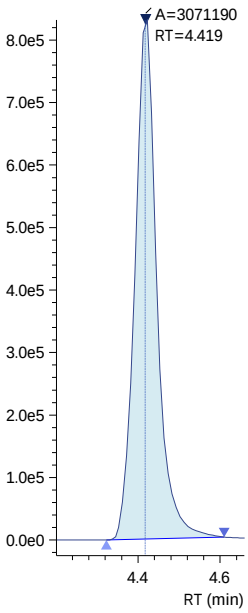
PFHpA-13C
Conc 4.7728
Q 366.90>322.10 (-) 8.32e5



210823_017 (continued)

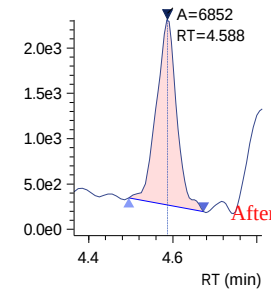
PFHpA-13C_IS
Conc 5.0000

ISTD 366.90>322.10 (-) 8.32e5

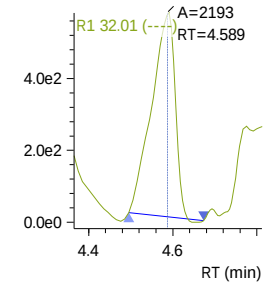


PFOA
Conc 0.0066
R#1 32.01 (30.35)

Q 413.00>369.00 (-) 2.31e3

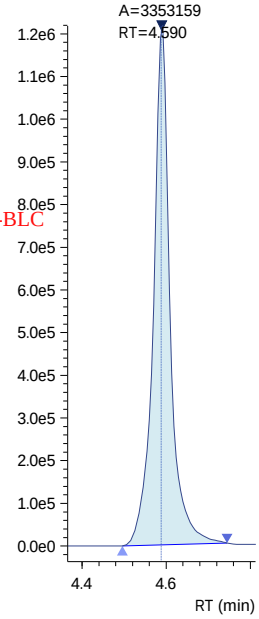


R1 413.00>169.10 (-) 5.82e2



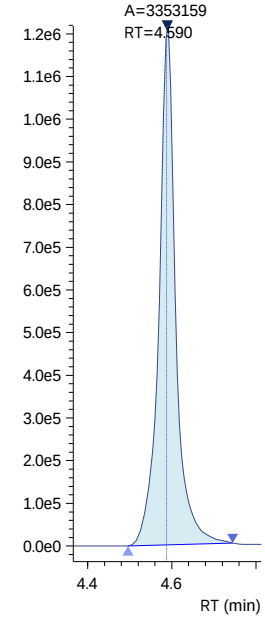
PFOA-13C
Conc 4.6809

Q 416.80>372.05 (-) 1.22e6



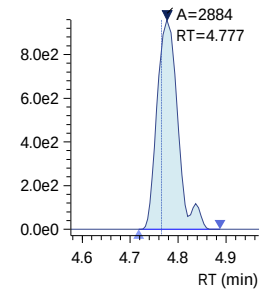
PFOA-13C_IS
Conc 5.0000

ISTD 416.80>372.05 (-) 1.22e6

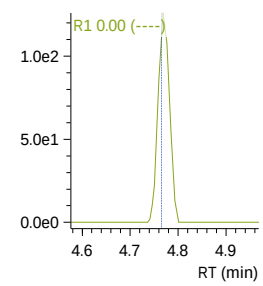


PFNA
Conc 0.0043
R#1 0.00 (22.35)

Q 463.00>418.90 (-) 9.58e2

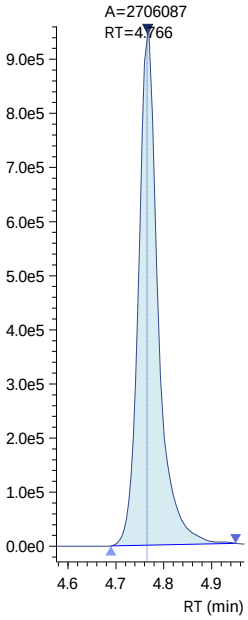


R1 463.00>219.00 (-) 1.26e2



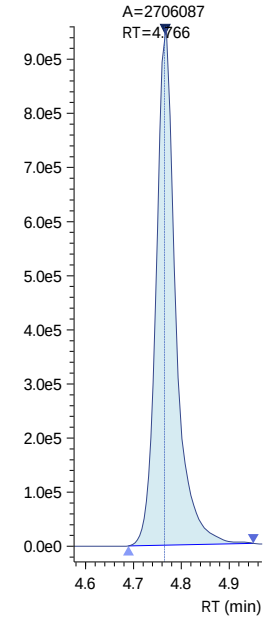
PFNA-13C
Conc 4.9522

Q 467.80>423.00 (-) 9.61e5



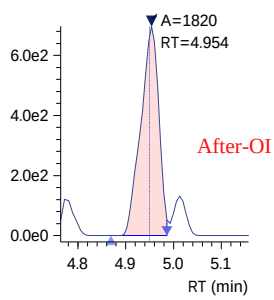
PFNA-13C_IS
Conc 5.0000

ISTD 467.80>423.00 (-) 9.61e5

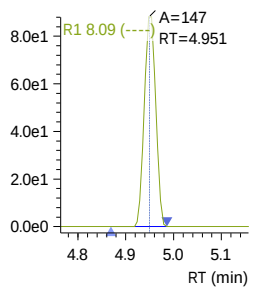


PFDA
Conc 0.0031
R#1 8.09 (18.73)

Q 513.00>468.80 (-) 6.97e2

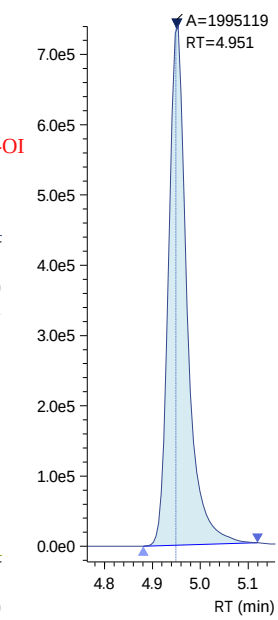


R1 513.00>219.10 (-) 8.80e1



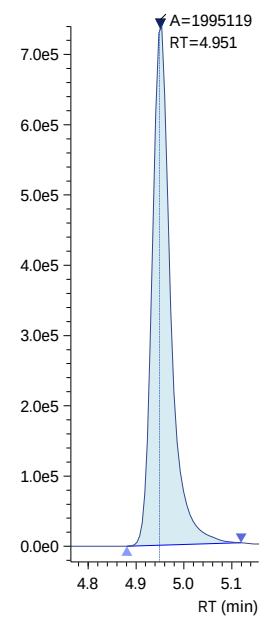
PFDA-13C
Conc 4.9397

Q 514.80>469.95 (-) 7.40e5

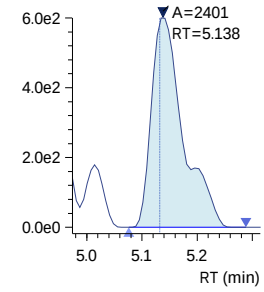


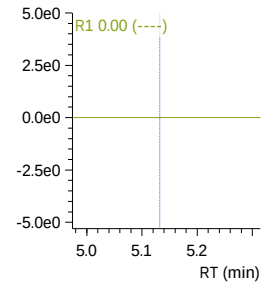
PFDA-13C_IS
Conc 5.0000

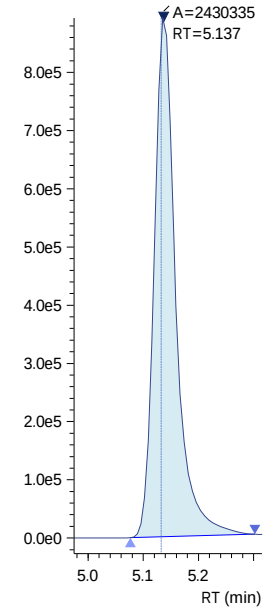
ISTD 514.80>469.95 (-) 7.40e5

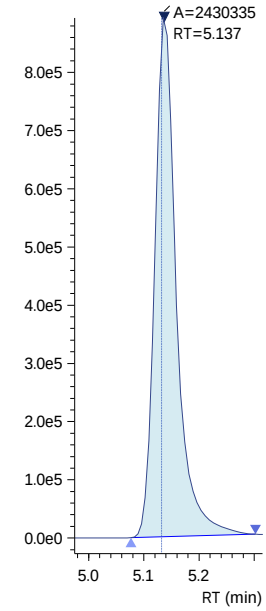


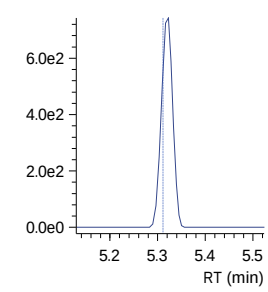
210823_017 (continued)

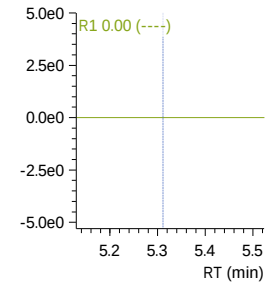
PFUnA
Conc 0.0041
R#1 0.00 (11.60)
Q 563.00>518.90 (-) 6.00e2


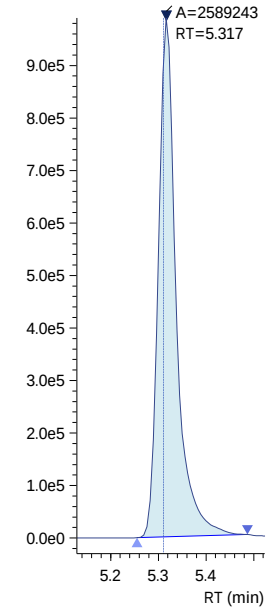
R1 563.00>219.00 (-) 0.00e0


PFUnA-13C
Conc 4.5163
Q 564.80>519.95 (-) 8.94e5


PFUnA-13C_IS
Conc 5.0000
ISTD 564.80>519.95 (-) 8.94e5


PFDoA
Conc ----
R#1 0.00 (15.11)
Q 613.05>569.00 (-) 7.43e2


R1 613.05>169.00 (-) 0.00e0


PFDoA-13C
Conc 4.3925
Q 614.80>569.95 (-) 9.91e5


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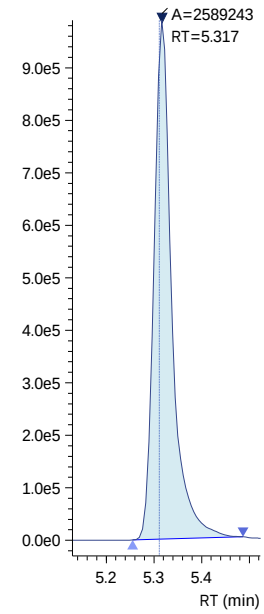
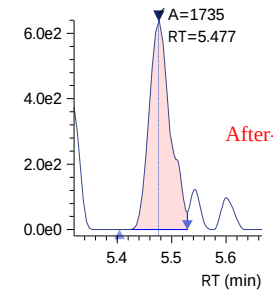
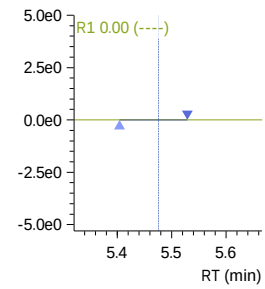
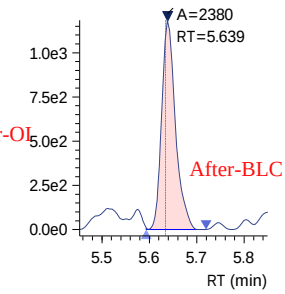
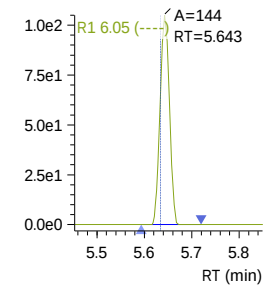
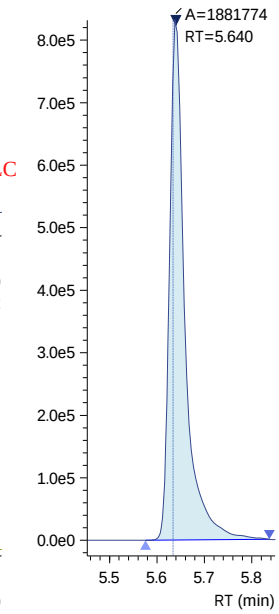
Conc 5.0000
ISTD 614.80>569.95 (-) 9.91e5


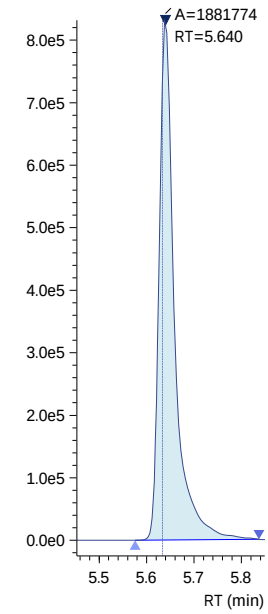
PFTrDA
Conc 0.0031
R#1 0.00 (14.19)
Q 663.00>618.90 (-) 6.40e2


R1 662.90>169.00 (-) 0.00e0


PFTeDA
Conc 0.0056
R#1 6.05 (14.98)
Q 713.00>669.00 (-) 1.18e3


R1 713.00>169.10 (-) 1.05e2


PFTeDA-13C
Conc 4.7172
Q 714.70>669.90 (-) 8.32e5


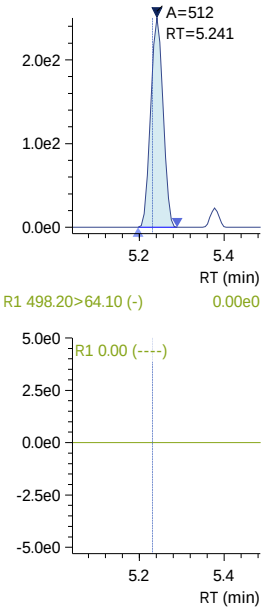
PFTeDA-13C_IS
Conc 5.0000
ISTD 714.70>669.90 (-) 8.32e5


After-OL

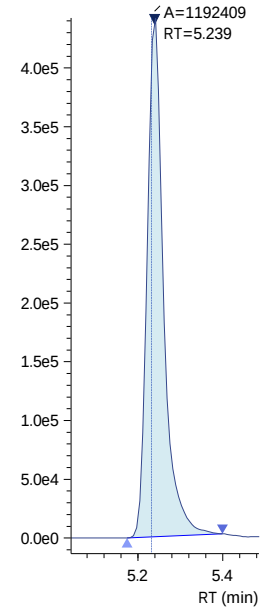
After-BLC

210823_017 (continued)

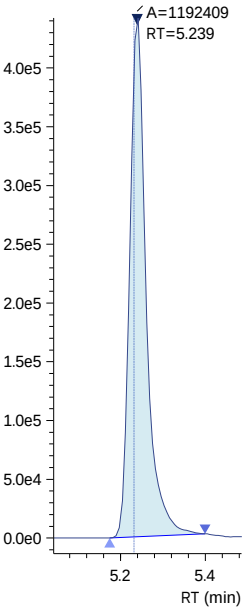
FOSA
Conc 0.0017
R#1 0.00 (4.89)
Q 498.20>78.00 (-) 2.50e2
R1 498.20>64.10 (-) 0.00e0



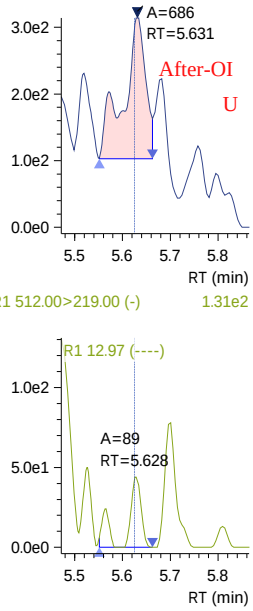
FOSA-13C
Conc 4.6938
Q 506.00>78.05 (-) 4.43e5



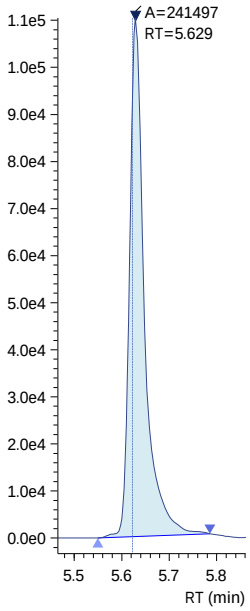
FOSA-13C_IS
Conc 5.0000
ISTD 506.00>78.05 (-) 4.43e5



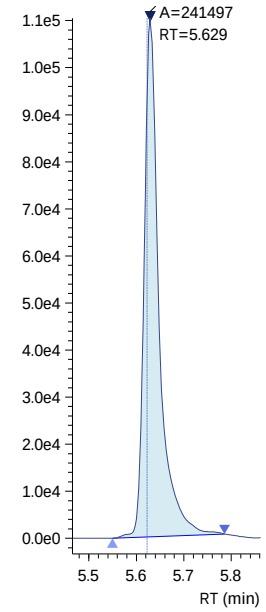
N-MeFOSA
Conc 0.0076
R#1 12.97 (62.72)
Q 512.00>169.10 (-) 3.14e2
R1 512.00>219.00 (-) 1.31e2



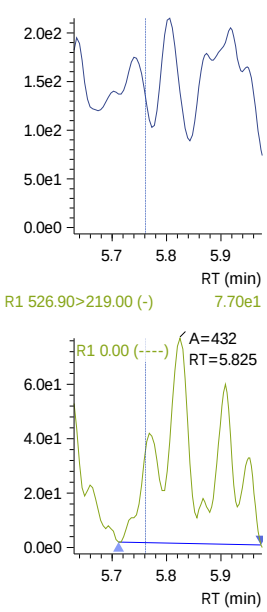
N-MeFOSA-d3
Conc 4.0884
Q 514.90>168.90 (-) 1.11e5



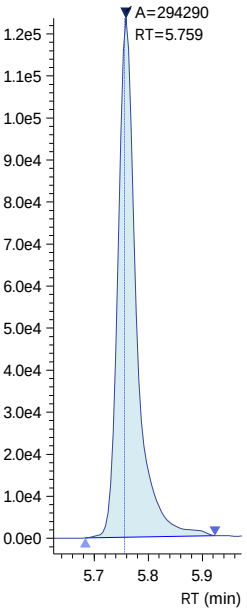
N-MeFOSA-d3_IS
Conc 5.0000
ISTD 514.90>168.90 (-) 1.11e5



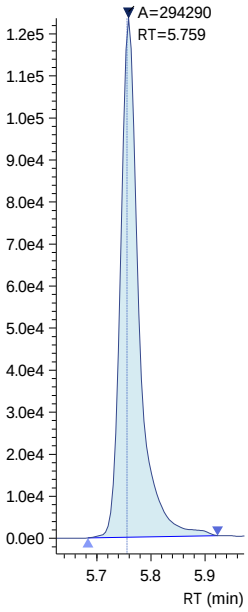
N-EtFOSA
Conc ----
R#1 0.00 (63.35)
Q 526.90>169.10 (-) 2.15e2
R1 526.90>219.00 (-) 7.70e1



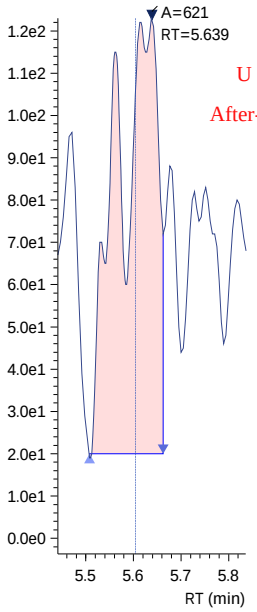
N-EtFOSA-d9
Conc 4.3849
Q 530.90>169.15 (-) 1.24e5



N-EtFOSA-d9_IS
Conc 5.0000
ISTD 530.90>169.15 (-) 1.24e5

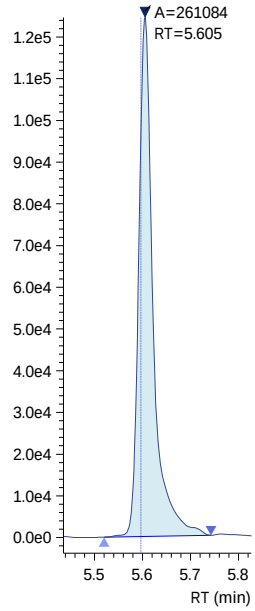


N-MeFOSE
Conc 0.0054
Q 616.00>59.00 (-) 1.23e2

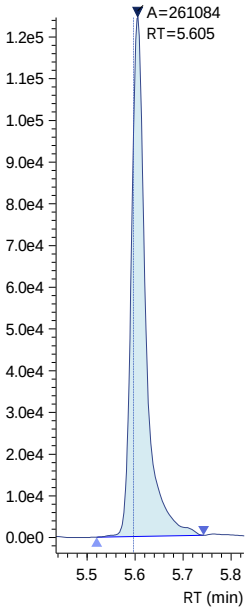


210823_017 (continued)

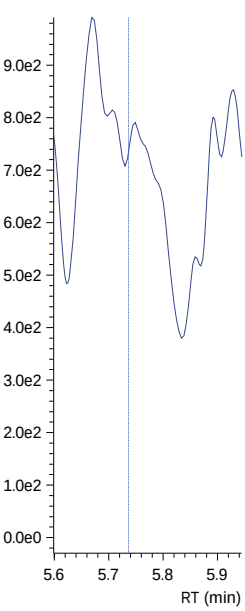
N-MeFOSE-d7
Conc 4.4200
Q 622.70>59.10 (-) 1.25e5



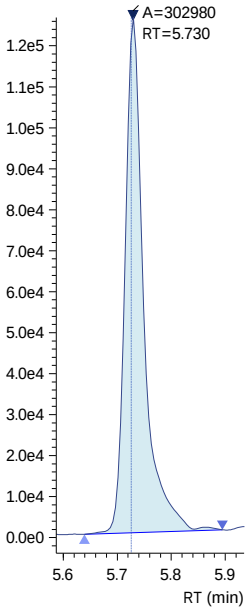
N-MeFOSE-d7_IS
Conc 5.0000
ISTD 622.70>59.10 (-) 1.25e5



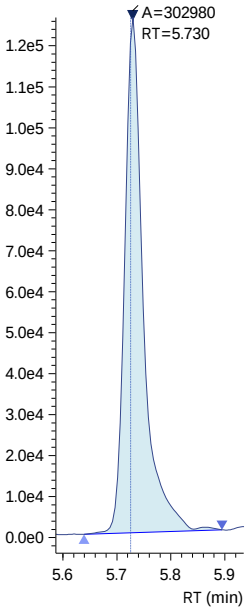
N-EtFOSE
Conc ----
Q 630.00>58.90 (-) 9.91e2



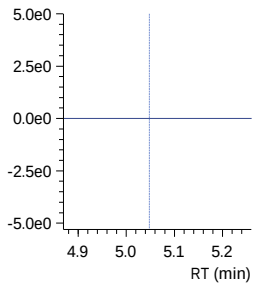
N-EtFOSE-d9
Conc 4.9543
Q 638.70>59.10 (-) 1.27e5



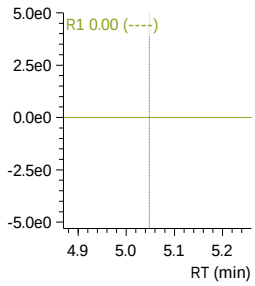
N-EtFOSE-d9_IS
Conc 5.0000
ISTD 638.70>59.10 (-) 1.27e5



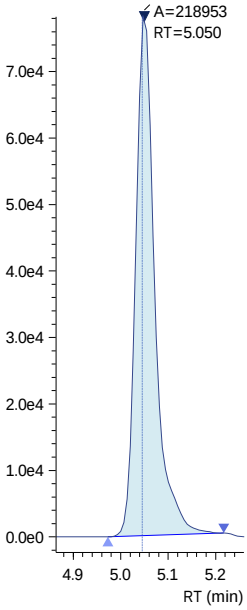
N-MeFOSAA
Conc ----
R#1 0.00 (35.26)
Q 570.20>419.00 (-) 0.00e0



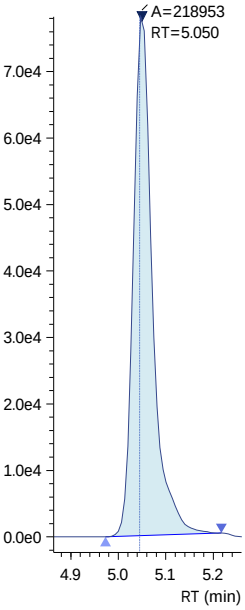
R1 570.20>512.00 (-) 0.00e0



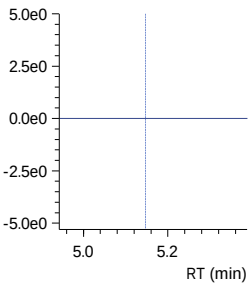
N-MeFOSAA-d3
Conc 4.5448
Q 572.80>419.05 (-) 7.82e4



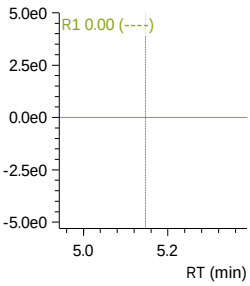
N-MeFOSAA-d3_IS
Conc 5.0000
ISTD 572.80>419.05 (-) 7.82e4



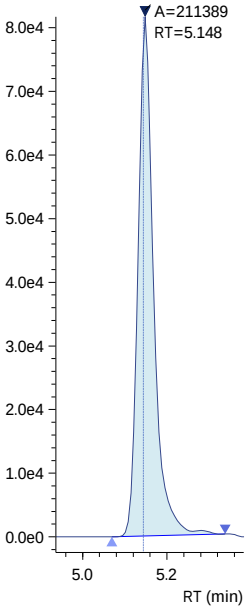
N-EtFOSAA
Conc ----
R#1 0.00 (77.25)
Q 584.20>418.95 (-) 0.00e0



R1 584.20>526.10 (-) 0.00e0



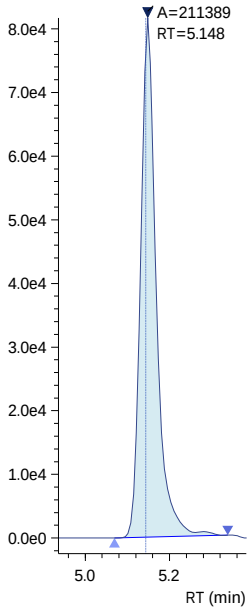
N-EtFOSAA-d5
Conc 4.7133
Q 588.80>419.00 (-) 8.17e4



210823_017 (continued)

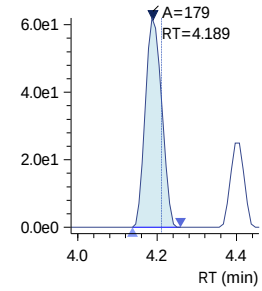
N-EtFOSAA-d5_IS
Conc 5.0000

ISTD 588.80>419.00 (-) 8.17e4

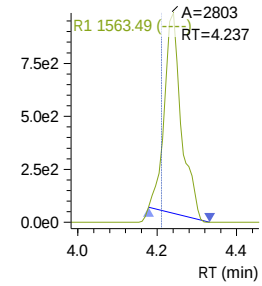


4_2-FTS_1
Conc 0.0022
R#1 1563.49 (39.85)

Q 327.00>307.05 (-) 6.20e1

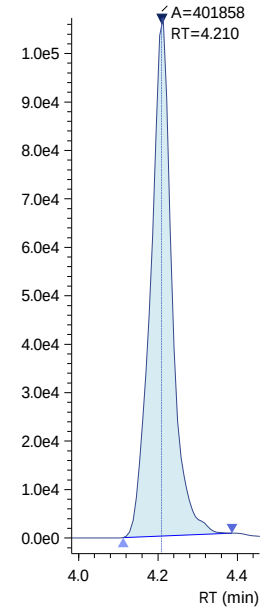


R1 327.00>81.10 (-) 9.88e2



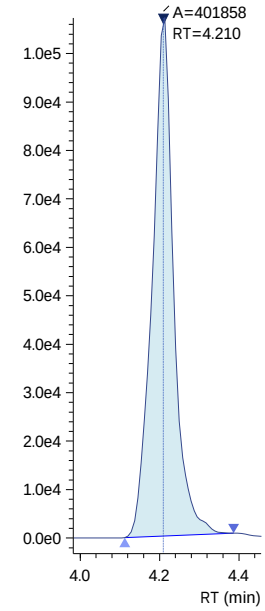
4_2-FTS-13C
Conc 4.0890

Q 328.80>309.05 (-) 1.07e5



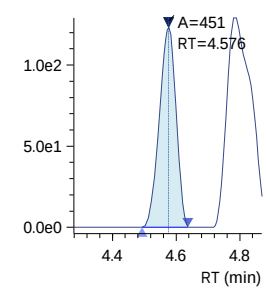
4_2-FTS-13C_IS
Conc 5.0000

ISTD 328.80>309.05 (-) 1.07e5

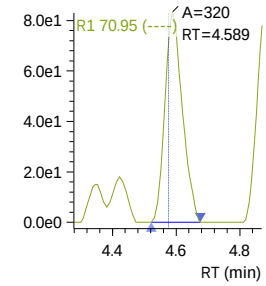


6_2-FTS_1
Conc 0.0040
R#1 70.95 (29.95)

Q 427.00>407.00 (-) 1.29e2

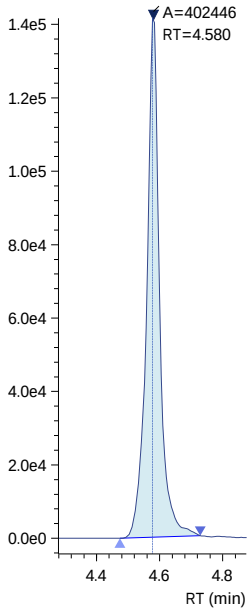


R1 427.00>80.90 (-) 8.30e1



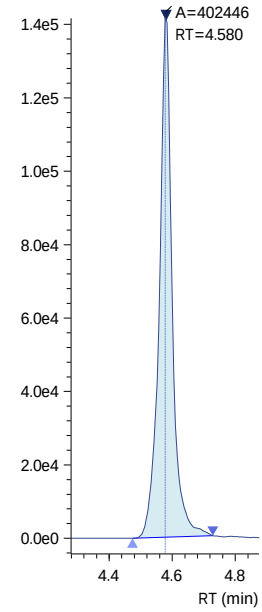
6_2-FTS-13C
Conc 4.3347

Q 428.90>409.00 (-) 1.42e5



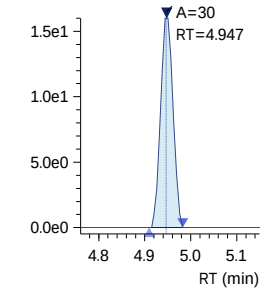
6_2-FTS-13C_IS
Conc 5.0000

ISTD 428.90>409.00 (-) 1.42e5

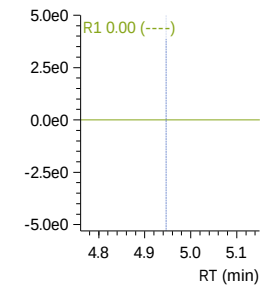


8_2-FTS_1
Conc 0.0005
R#1 0.00 (9.42)

Q 527.10>506.90 (-) 1.60e1

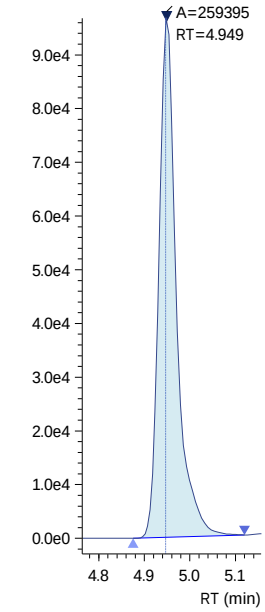


R1 527.20>487.00 (-) 0.00e0



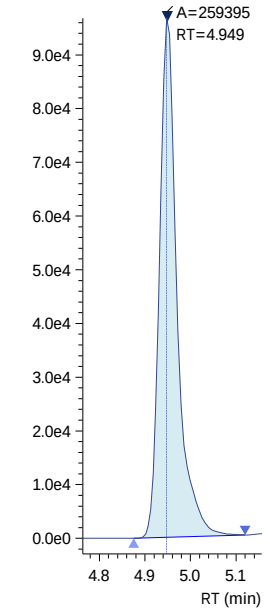
8_2-FTS-13C
Conc 5.2492

Q 528.80>509.00 (-) 9.68e4

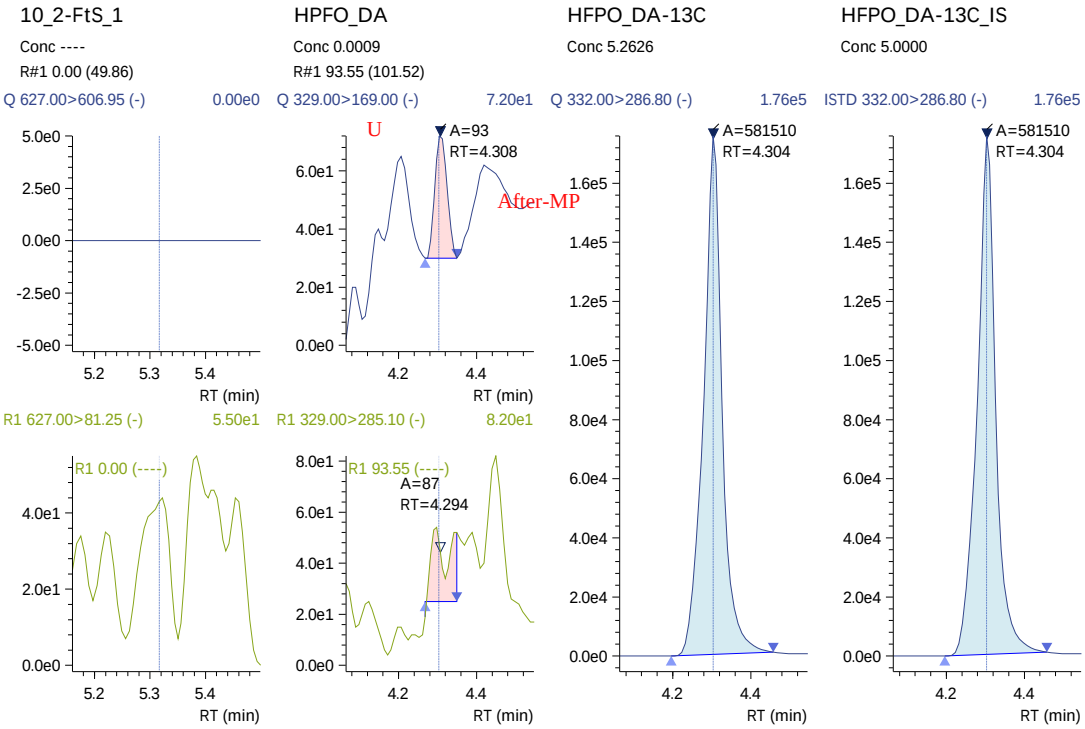


8_2-FTS-13C_IS
Conc 5.0000

ISTD 528.80>509.00 (-) 9.68e4



210823_017 (continued)

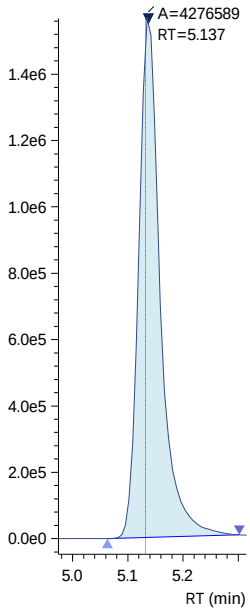


Insight Report
Before Manual Integration
Printed 8/27/2021 15:36:01

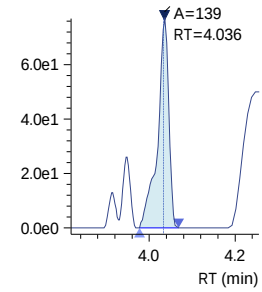
210823_017

Sample ID: KQ2115525-04
Date Acquired: 8/23/2021 7:05:37 PM
Acquired by: System Administrator
Data File: 210823_017
Vial: 3 | Inj. Volume: 15.0000uL | Tray: 3

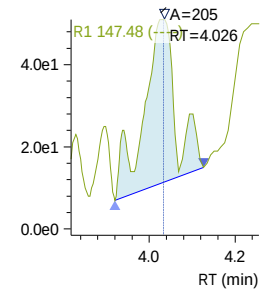
13C7-PFUnDA_IS
Conc 5.0000
ISTD 570.00>525.00 (-) 1.57e6



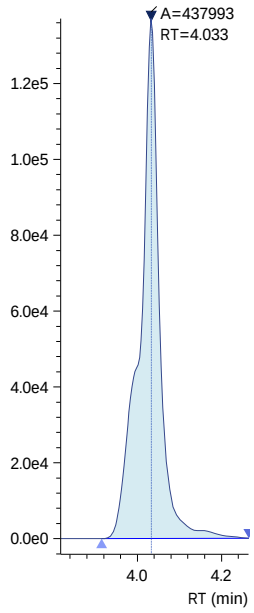
PFBS_1
Conc 0.0009
R#1 147.48 (47.76)
Q 299.00>80.00 (-) 7.70e1



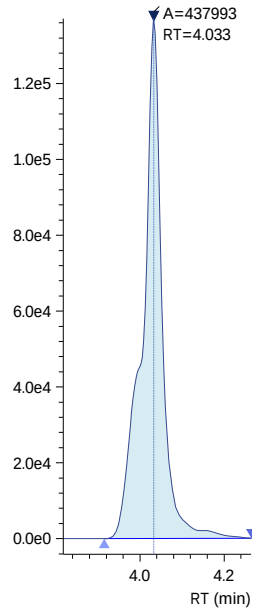
R1 298.80>99.00 (-) 5.10e1



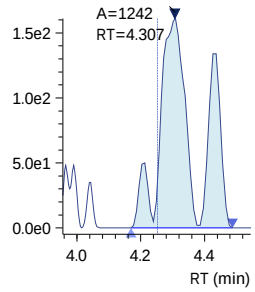
PFBS-13C
Conc 4.9609
Q 301.80>80.00 (-) 1.37e5



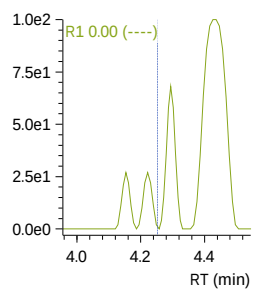
PFBS-13C_IS
Conc 5.0000
ISTD 301.80>80.00 (-) 1.37e5



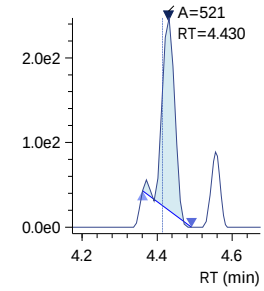
PFPeS
Conc 0.0144
R#1 0.00 (136.08)
Q 349.00>99.00 (-) 1.61e2

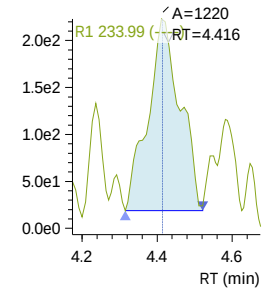


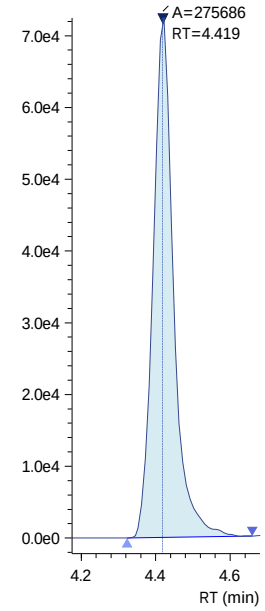
R1 349.00>79.95 (-) 1.00e2



210823_017 (continued)

PFHxS_1
Conc -0.0158
R#1 233.99 (71.26)
Q 399.00>80.00 (-) 2.47e2


R1 399.00>99.00 (-) 2.23e2


PFHxS-18O
Conc 4.5796
Q 402.70>84.05 (-) 7.25e4


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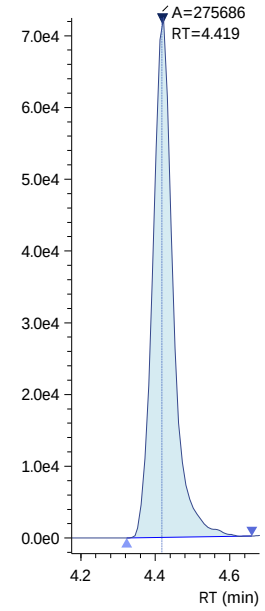
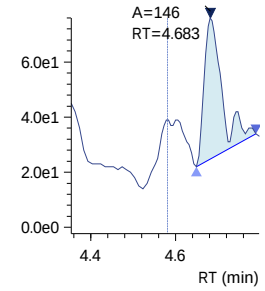
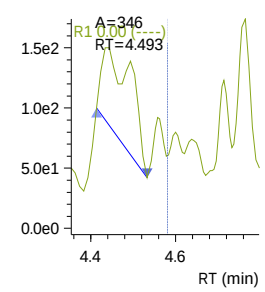
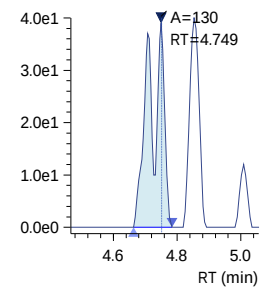
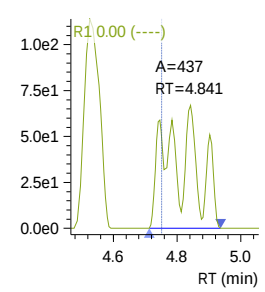
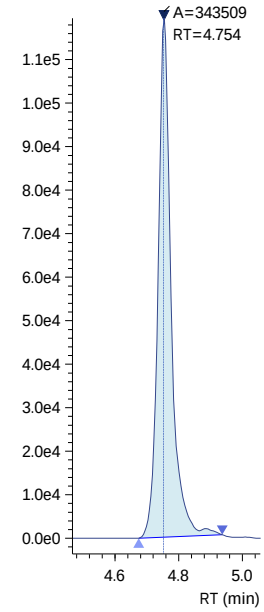
Conc 5.0000
ISTD 402.70>84.05 (-) 7.25e4


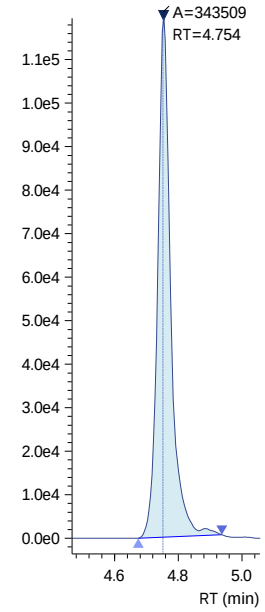
PFHpS_1
Conc 0.0013
R#1 0.00 (53.84)
Q 449.00>80.15 (-) 7.60e1


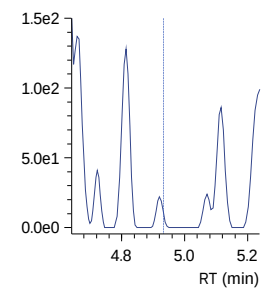
R1 449.00>99.20 (-) 1.74e2


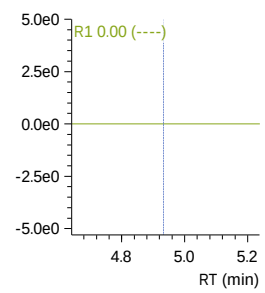
PFOS_1
Conc 0.0020
R#1 0.00 (86.72)
Q 499.00>80.00 (-) 4.00e1


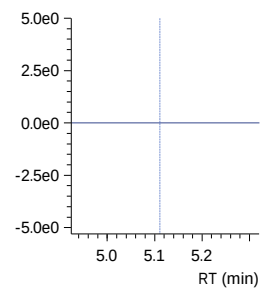
R1 499.00>99.00 (-) 1.14e2


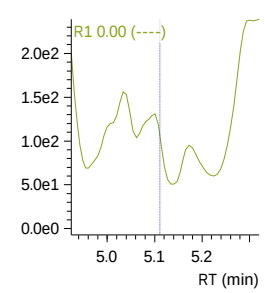
PFOS-13C
Conc 4.5913
Q 502.80>80.05 (-) 1.20e5


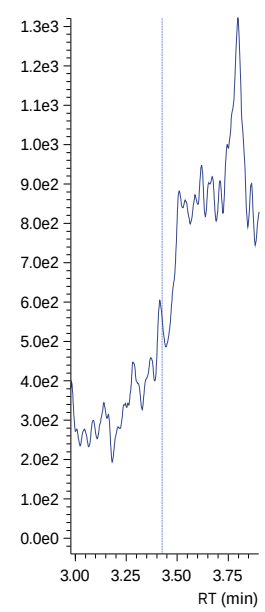
PFOS-13C_IS
Conc 5.0000
ISTD 502.80>80.05 (-) 1.20e5


PFNS
Conc ----
R#1 0.00 (129.18)
Q 549.00>99.00 (-) 1.50e2


R1 549.00>79.95 (-) 0.00e0


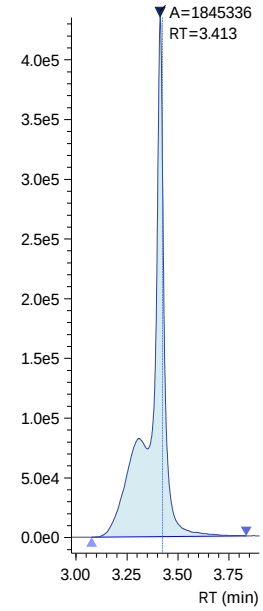
PFDS_1
Conc ----
R#1 0.00 (90.77)
Q 599.00>79.90 (-) 0.00e0


R1 599.00>99.10 (-) 2.39e2


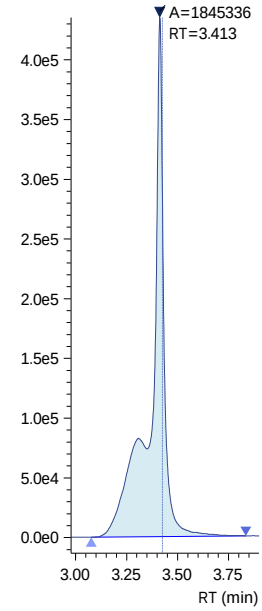
PFBA
Conc ----
Q 213.00>169.10 (-) 1.32e3


210823_017 (continued)

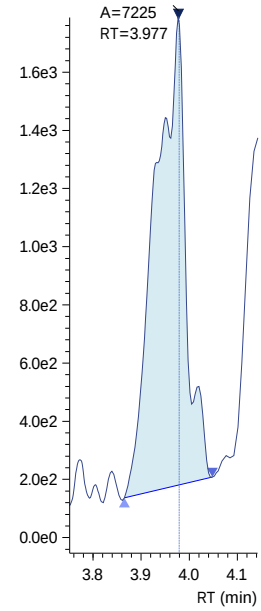
PFBA-13C
Conc 5.2831
Q 216.90>172.15 (-) 4.35e5



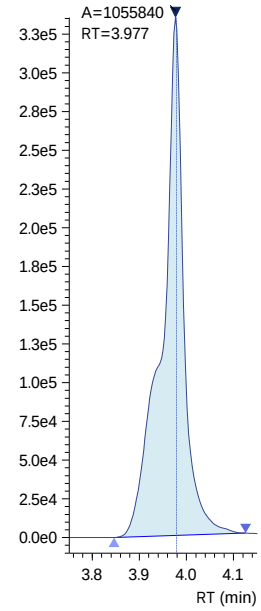
PFBA-13C_IS
Conc 5.0000
ISTD 216.90>172.15 (-) 4.35e5



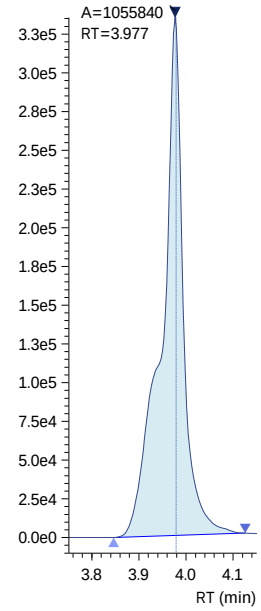
PFPeA
Conc 0.0108
Q 263.05>219.10 (-) 1.79e3



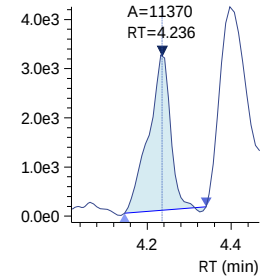
PFPeA-13C
Conc 4.5869
Q 267.90>223.00 (-) 3.36e5



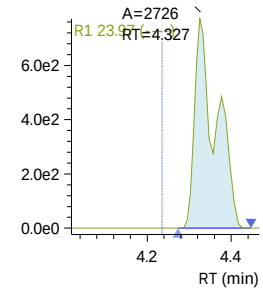
PFPeA-13C_IS
Conc 5.0000
ISTD 267.90>223.00 (-) 3.36e5



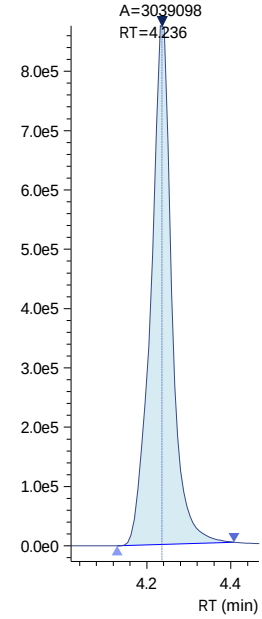
PFHxA
Conc 0.0138
R#1 23.97 (4.17)
Q 313.00>269.00 (-) 4.26e3



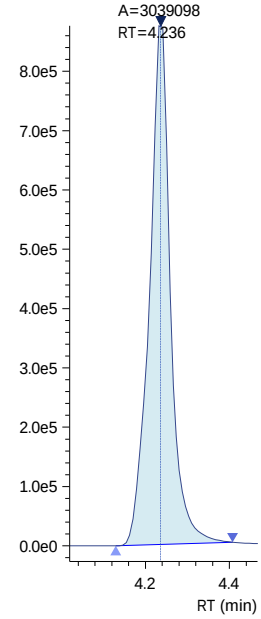
R1 313.00>119.10 (-) 7.72e2



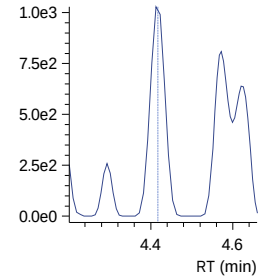
PFHxA-13C
Conc 4.7951
Q 314.90>270.10 (-) 8.77e5



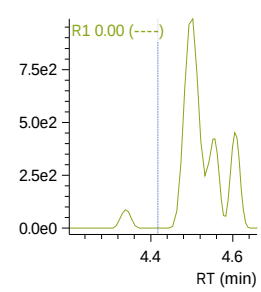
PFHxA-13C_IS
Conc 5.0000
ISTD 314.90>270.10 (-) 8.77e5



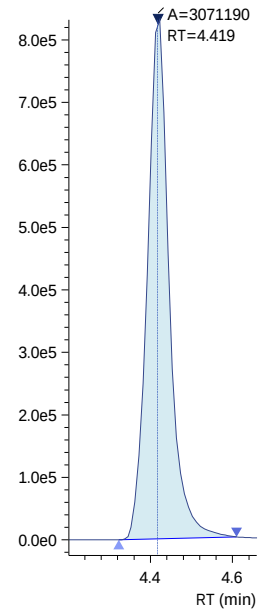
PFHpA
Conc ----
R#1 0.00 (26.04)
Q 362.90>319.00 (-) 1.03e3



R1 362.90>169.00 (-) 9.90e2



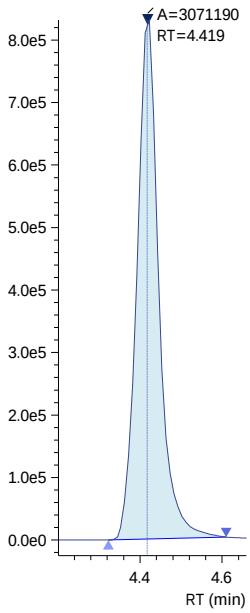
PFHpA-13C
Conc 4.7728
Q 366.90>322.10 (-) 8.32e5



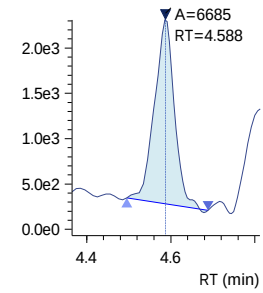
Insight Report
Before Manual Integration
Printed 8/27/2021 15:36:01

210823_017 (continued)

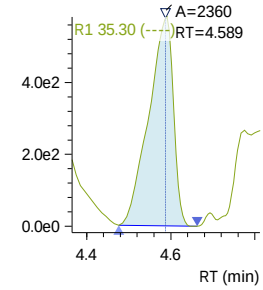
PFHpA-13C_IS
Conc 5.0000
ISTD 366.90>322.10 (-) 8.32e5



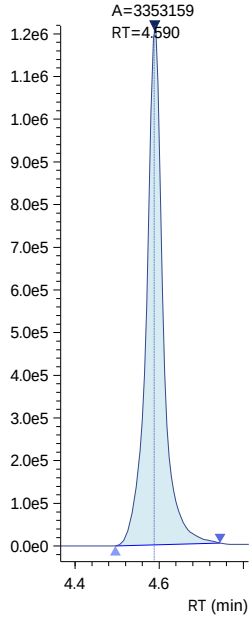
PFOA
Conc 0.0065
R#1 35.30 (30.35)
Q 413.00>369.00 (-) 2.31e3



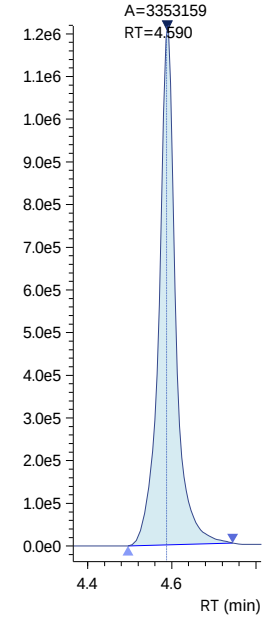
R1 413.00>169.10 (-) 5.82e2



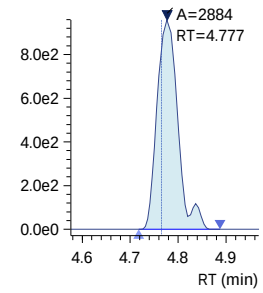
PFOA-13C
Conc 4.6809
Q 416.80>372.05 (-) 1.22e6



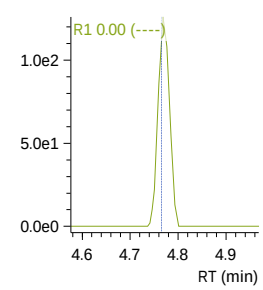
PFOA-13C_IS
Conc 5.0000
ISTD 416.80>372.05 (-) 1.22e6



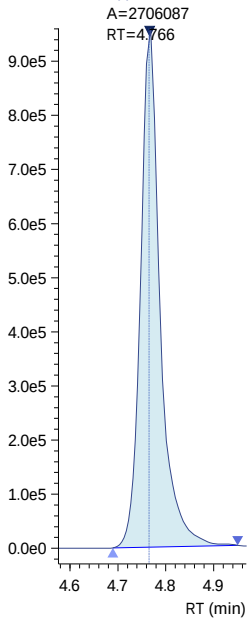
PFNA
Conc 0.0043
R#1 0.00 (22.35)
Q 463.00>418.90 (-) 9.58e2



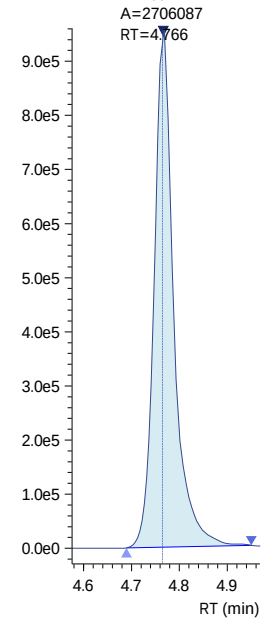
R1 463.00>219.00 (-) 1.26e2



PFNA-13C
Conc 4.9522
Q 467.80>423.00 (-) 9.61e5



PFNA-13C_IS
Conc 5.0000
ISTD 467.80>423.00 (-) 9.61e5



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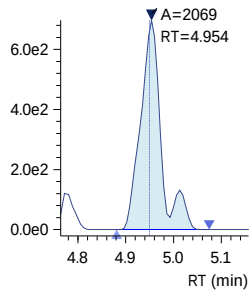
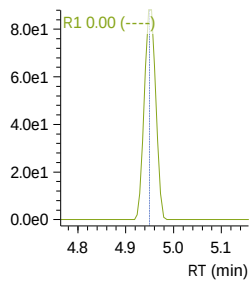
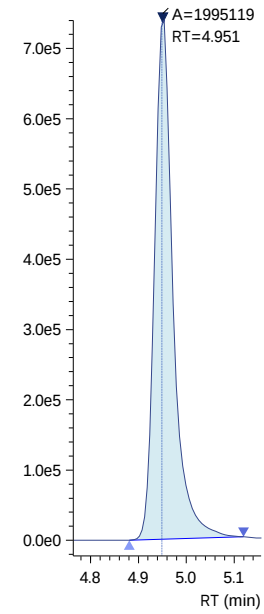
Conc 0.0035
R#1 0.00 (18.73)
Q 513.00>468.80 (-) 6.97e2



R1 513.00>219.10 (-) 8.80e1



PFDA-13C
Conc 4.9397
Q 514.80>469.95 (-) 7.40e5



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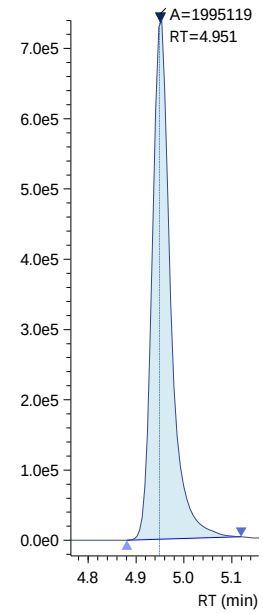
ISTD 514.80>469.95 (-) 7.40e5



210823_017 (continued)

PFUnA
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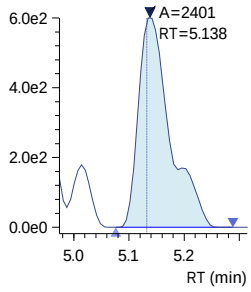
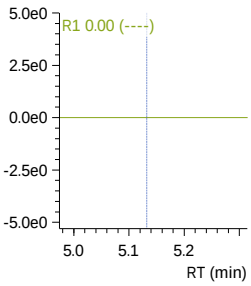


R1 563.00>219.00 (-) 0.00e0



PFUnA-13C
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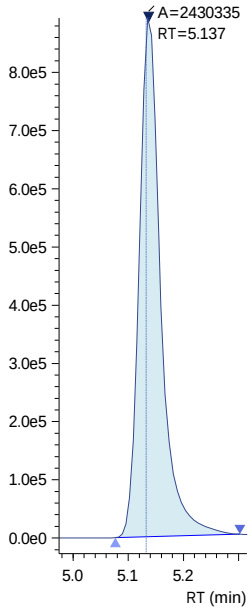
Q 564.80>519.95 (-) 8.94e5



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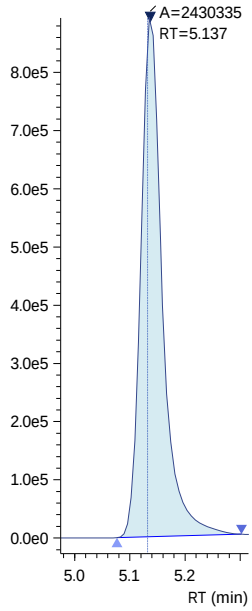
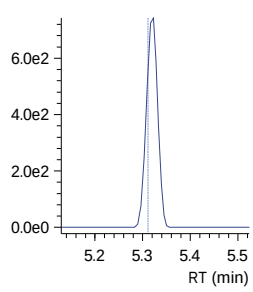
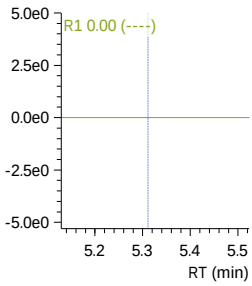


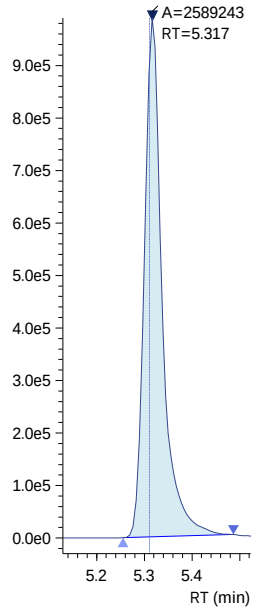
PFDoA
Conc ----
R#1 0.00 (15.11)
Q 613.05>569.00 (-) 7.43e2



R1 613.05>169.00 (-) 0.00e0



PFDoA-13C
Conc 4.3925
Q 614.80>569.95 (-) 9.91e5



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Conc 5.0000
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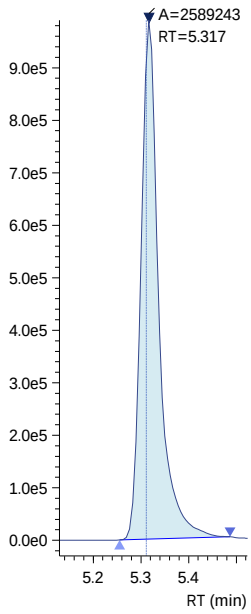
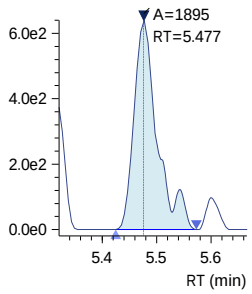
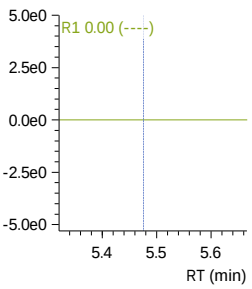


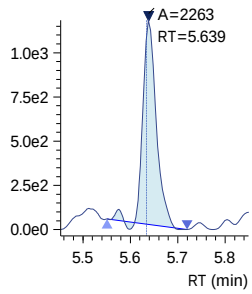
PFTrDA
Conc 0.0034
R#1 0.00 (14.19)
Q 663.00>618.90 (-) 6.40e2



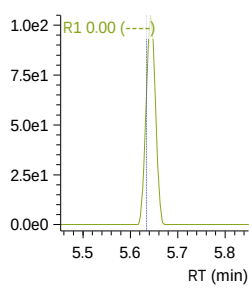
R1 662.90>169.00 (-) 0.00e0



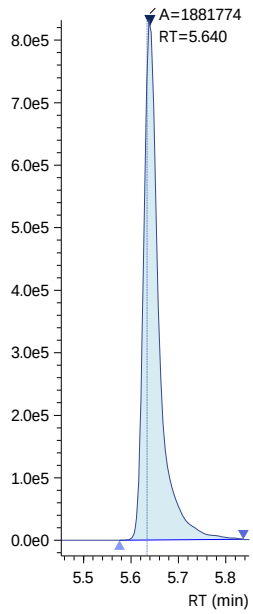
PFTeDA
Conc 0.0053
R#1 0.00 (14.98)
Q 713.00>669.00 (-) 1.18e3



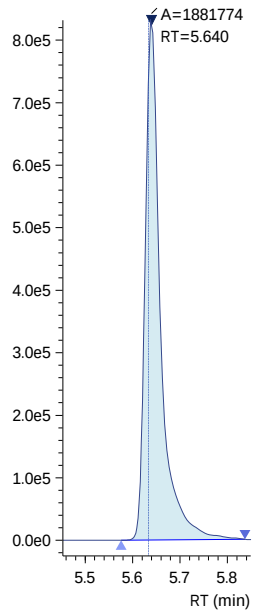
R1 713.00>169.10 (-) 1.05e2



PFTeDA-13C
Conc 4.7172
Q 714.70>669.90 (-) 8.32e5

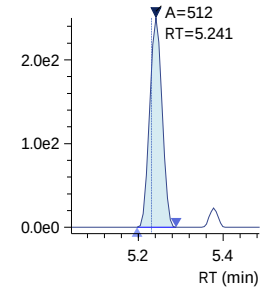


PFTeDA-13C_IS
Conc 5.0000
ISTD 714.70>669.90 (-) 8.32e5

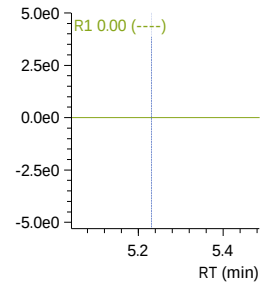


210823_017 (continued)

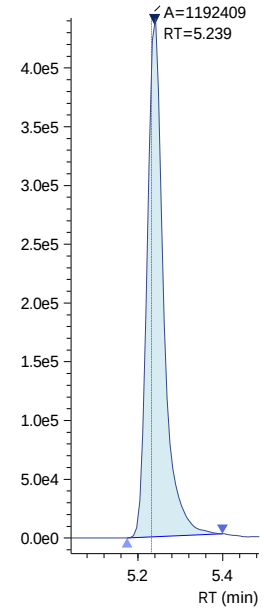
FOSA
Conc 0.0017
R#1 0.00 (4.89)
Q 498.20>78.00 (-) 2.50e2



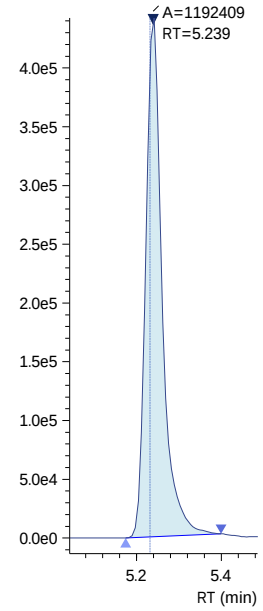
R1 498.20>64.10 (-) 0.00e0



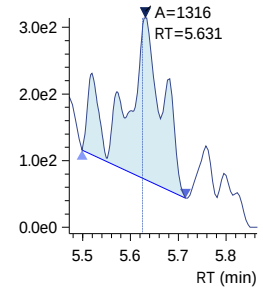
FOSA-13C
Conc 4.6938
Q 506.00>78.05 (-) 4.43e5



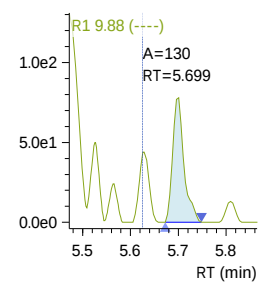
FOSA-13C_IS
Conc 5.0000
ISTD 506.00>78.05 (-) 4.43e5



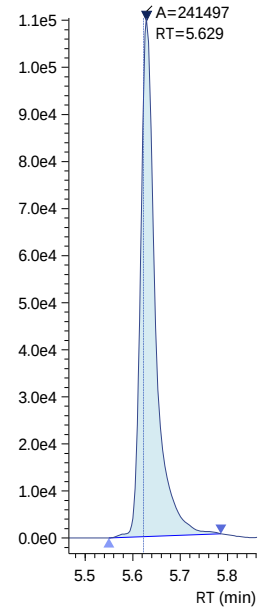
N-MeFOSA
Conc 0.0146
R#1 9.88 (62.72)
Q 512.00>169.10 (-) 3.14e2



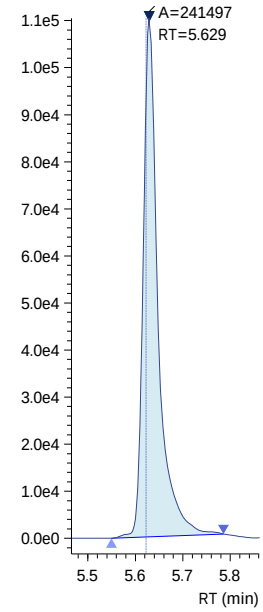
R1 512.00>219.00 (-) 1.31e2



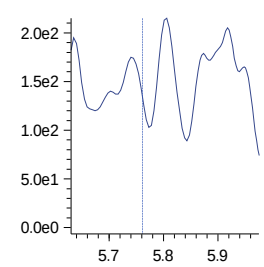
N-MeFOSA-d3
Conc 4.0884
Q 514.90>168.90 (-) 1.11e5



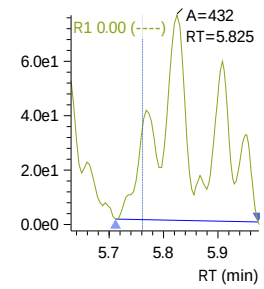
N-MeFOSA-d3_IS
Conc 5.0000
ISTD 514.90>168.90 (-) 1.11e5



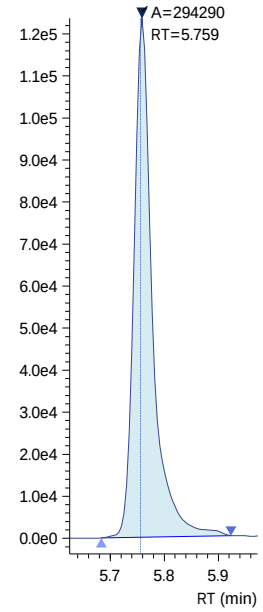
N-EtFOSA
Conc ----
R#1 0.00 (63.35)
Q 526.90>169.10 (-) 2.15e2



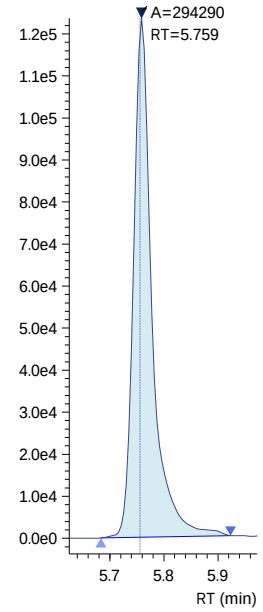
R1 526.90>219.00 (-) 7.70e1



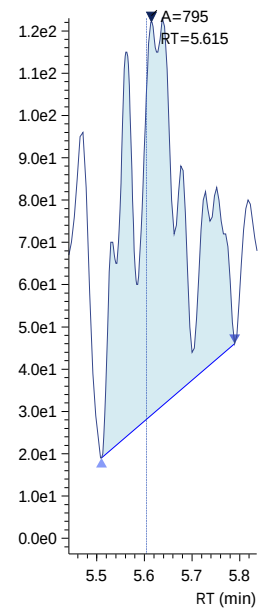
N-EtFOSA-d9
Conc 4.3849
Q 530.90>169.15 (-) 1.24e5



N-EtFOSA-d9_IS
Conc 5.0000
ISTD 530.90>169.15 (-) 1.24e5

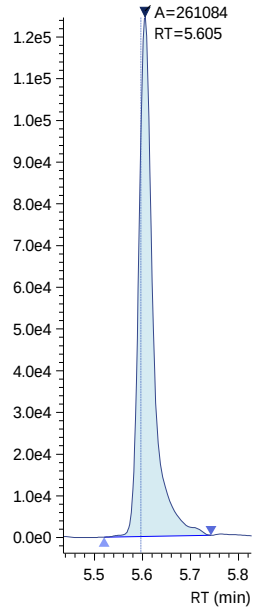


N-MeFOSE
Conc 0.0070
Q 616.00>59.00 (-) 1.23e2

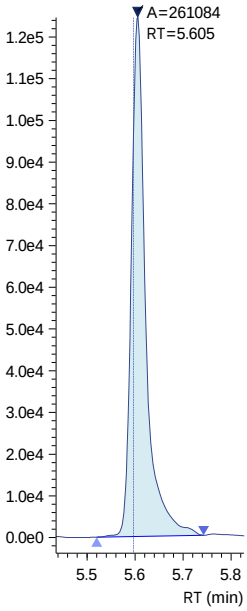


210823_017 (continued)

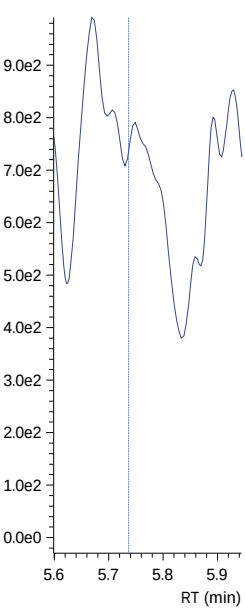
N-MeFOSE-d7
Conc 4.4200
Q 622.70>59.10 (-) 1.25e5



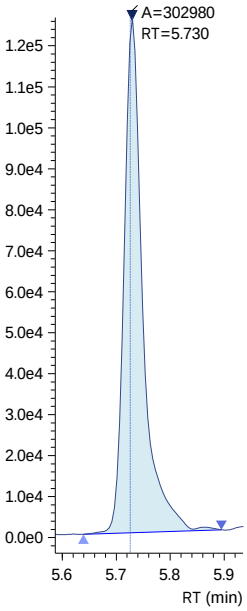
N-MeFOSE-d7_IS
Conc 5.0000
ISTD 622.70>59.10 (-) 1.25e5



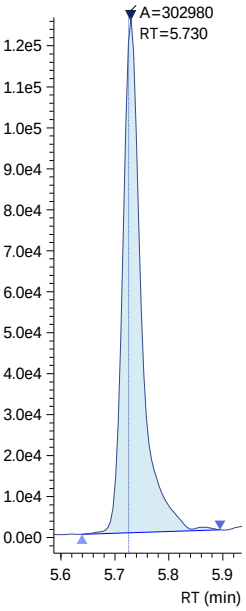
N-EtFOSE
Conc ----
Q 630.00>58.90 (-) 9.91e2



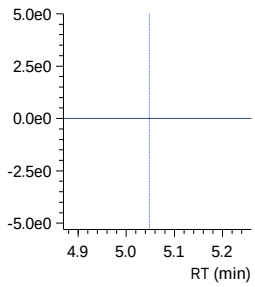
N-EtFOSE-d9
Conc 4.9543
Q 638.70>59.10 (-) 1.27e5



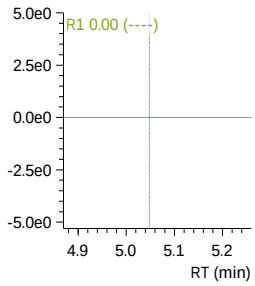
N-EtFOSE-d9_IS
Conc 5.0000
ISTD 638.70>59.10 (-) 1.27e5



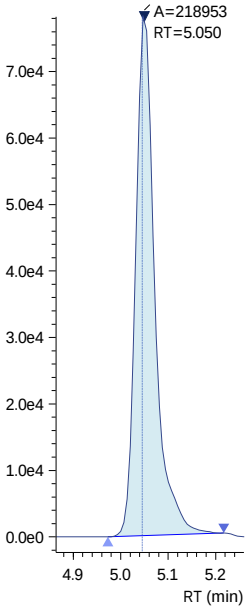
N-MeFOSAA
Conc ----
R#1 0.00 (35.26)
Q 570.20>419.00 (-) 0.00e0



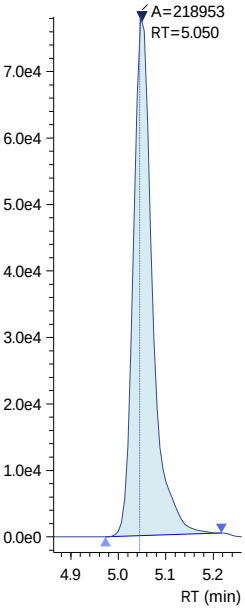
R1 570.20>512.00 (-) 0.00e0



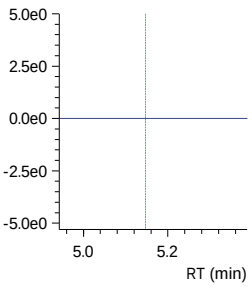
N-MeFOSAA-d3
Conc 4.5448
Q 572.80>419.05 (-) 7.82e4



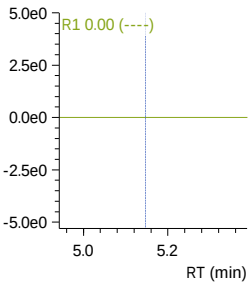
N-MeFOSAA-d3_IS
Conc 5.0000
ISTD 572.80>419.05 (-) 7.82e4



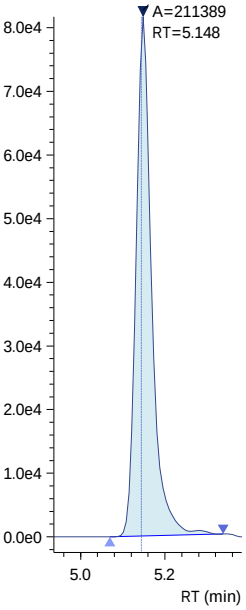
N-EtFOSAA
Conc ----
R#1 0.00 (77.25)
Q 584.20>418.95 (-) 0.00e0



R1 584.20>526.10 (-) 0.00e0

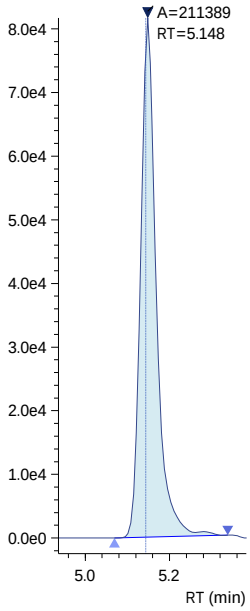


N-EtFOSAA-d5
Conc 4.7133
Q 588.80>419.00 (-) 8.17e4

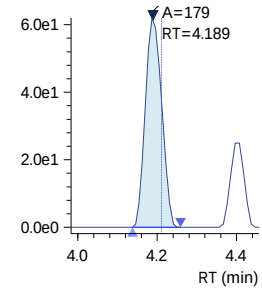


210823_017 (continued)

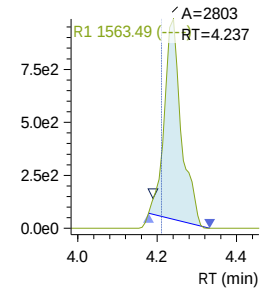
N-EtFOSAA-d5_IS
Conc 5.0000
ISTD 588.80>419.00 (-) 8.17e4



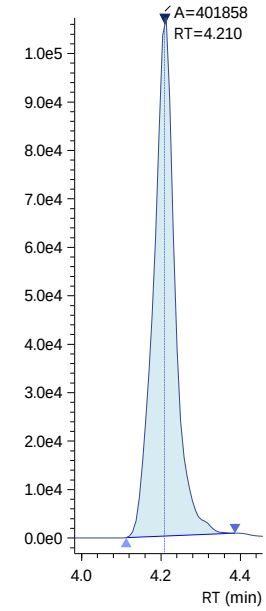
4_2-FTS_1
Conc 0.0022
R#1 1563.49 (39.85)
Q 327.00>307.05 (-) 6.20e1



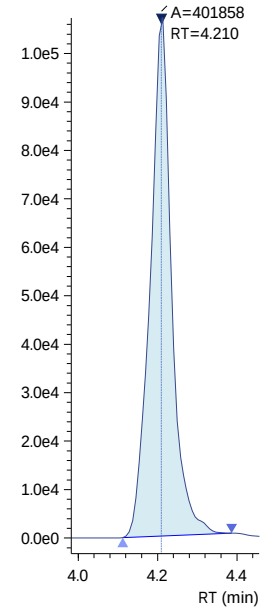
R1 327.00>81.10 (-) 9.88e2



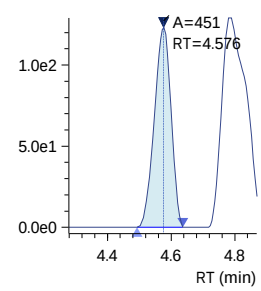
4_2-FTS-13C
Conc 4.0890
Q 328.80>309.05 (-) 1.07e5



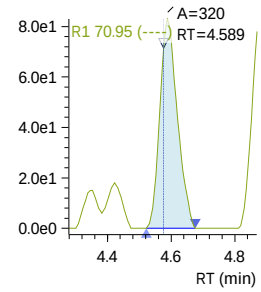
4_2-FTS-13C_IS
Conc 5.0000
ISTD 328.80>309.05 (-) 1.07e5



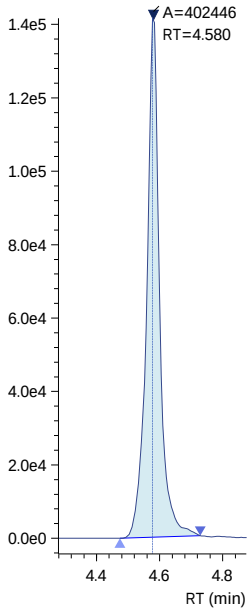
6_2-FTS_1
Conc 0.0040
R#1 70.95 (29.95)
Q 427.00>407.00 (-) 1.29e2



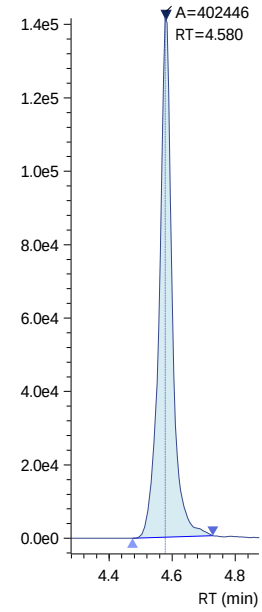
R1 427.00>80.90 (-) 8.30e1



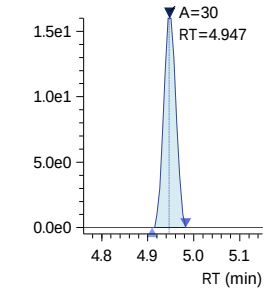
6_2-FTS-13C
Conc 4.3347
Q 428.90>409.00 (-) 1.42e5



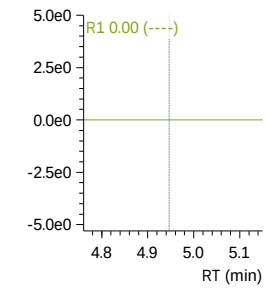
6_2-FTS-13C_IS
Conc 5.0000
ISTD 428.90>409.00 (-) 1.42e5



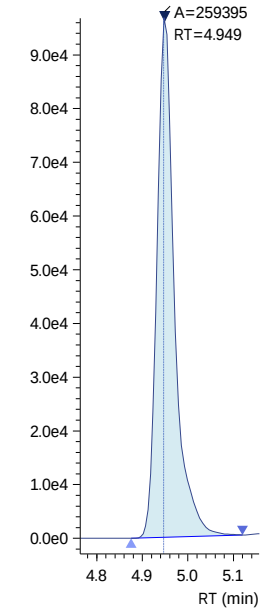
8_2-FTS_1
Conc 0.0005
R#1 0.00 (9.42)
Q 527.10>506.90 (-) 1.60e1



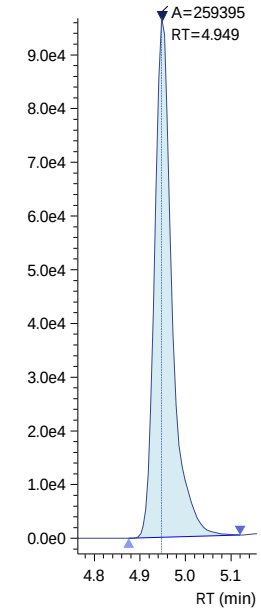
R1 527.20>487.00 (-) 0.00e0



8_2-FTS-13C
Conc 5.2492
Q 528.80>509.00 (-) 9.68e4

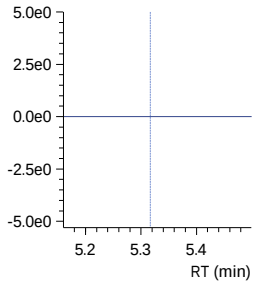


8_2-FTS-13C_IS
Conc 5.0000
ISTD 528.80>509.00 (-) 9.68e4

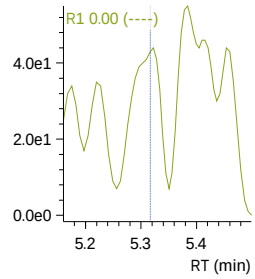


210823_017 (continued)

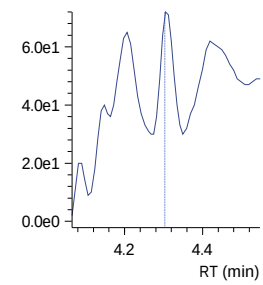
10_2-FtS_1
Conc ----
R#1 0.00 (49.86)
Q 627.00>606.95 (-) 0.00e0



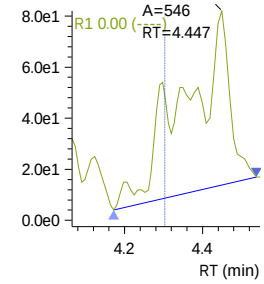
R1 627.00>81.25 (-) 5.50e1



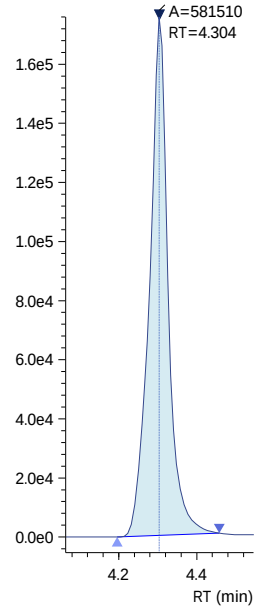
HPFO_DA
Conc ----
R#1 0.00 (101.52)
Q 329.00>169.00 (-) 7.20e1



R1 329.00>285.10 (-) 8.20e1



HFPO_DA-13C
Conc 5.2626
Q 332.00>286.80 (-) 1.76e5



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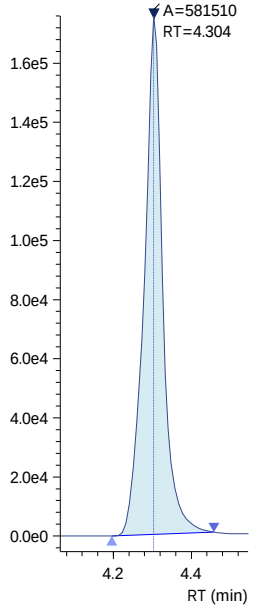
Conc 5.0000
ISTD 332.00>286.80 (-) 1.76e5



1st UA 09/15/21
2nd ~~#~~ 09/16/21

Validation Report

Data File: J:\LCMS06\Data\210914_B1\210914_017
Lab ID: KQ2115544-04
RunType: MB
Matrix: Soil

Date Acquired: 9/14/21 13:52
Batch ID: 738712
Analysis Method: PFC/537M/PFAS

Validations

Validation Categories	Pass	Fail
Analytical Hold Time	X	
ICAL Analyte Recovery	X	
Second Source ICAL Verification	X	
Continuing Calibration Recovery		X
Internal Standards	X	
Surrogates	X	
Std MRL Unsupported by ICAL	X	
Above Highest ICAL Level	X	

Analyte Exceptions

Exception Categories	Analyte Name	Result	Low Limit	High Limit	Corrective Action
Continuing Calibration Recovery	13C2-8:2 FTS	148	70	130	native in control
	13C2-6:2 FTS	136	70	130	native in control

Primary Review: _____

Printed: 9/14/21 19:07
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Secondary Review: _____

1st UA 09/15/21
2nd 09/16/21

Quantitation Report

Data File:	J:\LCMS06\Data\210914_B1\210914_017	**Instrument:**	K-LCMS-06
Acqu Date:	9/14/21 13:52	**Vial:**	3
Run Type:	MB	**Dilution:**	1
Lab ID:	KQ2115544-04	**Raw Units:**	ng/mL

Bottle ID:		**Tier:**	III	**Matrix:**	Soil
Prod Code:	PFAS	**Collect Date:**		**Receive Date:**	8/11/21

Analysis Lot:	738712	**Prep Lot:**	385318	**Report Group:**	KQ2115544
Analysis	PFC/537M	**Prep Method:**	ALS SOP		
		Prep Date:	8/31/21		

Title:	Per- and Polyfluoroalkyl Substances (PFAS) by LC/MS/MS	**Calibration ID:**	KC2100481
		Report List ID:	19837

Internal Standard Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	Area Criteria
13C7-PFUnDA	5.121	0.00	4931100	5.0000	OK

Surrogate Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	% Rec	% Rec Criteria	Rpt?
13C3-PFBS	4.024	0.00	457607	4.2682	85	33 - 109	Y
18O2-PFHxS	4.406	-0.01	376649	4.9254	99	36 - 120	Y
13C4-PFOS	4.742	0.00	471128	4.5084	90	32 - 130	Y
13C4-PFBA	3.394	-0.01	1691716	4.3982	88	34 - 116	Y
13C5-PFPeA	3.969	-0.01	970087	4.4130	88	39 - 133	Y
13C2-PFHxA	4.225	0.00	2891343	4.6354	93	32 - 136	Y
13C4-PFHpA	4.407	0.00	2673357	4.7259	95	36 - 133	Y
13C4-PFOA	4.580	0.00	3383782	4.4744	89	31 - 134	Y
13C5-PFNA	4.753	0.00	3088053	4.7395	95	27 - 133	Y
13C2-PFDA	4.941	0.00	2285936	5.0462	101	30 - 137	Y
13C2-PFUnDA	5.121	0.00	3116044	4.5620	91	32 - 146	Y
13C2-PFDoDA	5.289	0.00	3374497	4.4790	90	36 - 136	Y
13C2-PFTeDA	5.591	0.00	2995898	3.9632	79	39 - 138	Y
13C8-FOSA	5.224	0.00	1398495	4.4589	89	40 - 132	Y
D3-MeFOSA	5.597	0.00	268355	3.8132	76	51 - 132	Y
D5-EtFOSA	5.718	0.00	339880	4.1456	83	49 - 123	Y
D7-MeFOSE	5.574		378920	3.4967	70	53 - 125	Y
D9-EtFOSE	5.691	0.00	422293	4.1151	82	45 - 121	Y
13C2-6:2 FTS	4.569	0.00	583097	5.9149	118	30 - 140	Y
13C2-8:2 FTS	4.940	0.00	436811	6.0953	122	9 - 171	Y

Target Compounds

Final Conc.Units: ng/g

Parameter Name	RT	RT Dev	Response	Solution Conc	Final Conc	Q	Rpt?

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

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1st UA 09/15/21
2nd 09/16/21

Data File:	J:\LCMS06\Data\210914_B1\210914_017	**Instrument:**	K-LCMS-06
Acqu Date:	9/14/21 13:52	**Vial:**	3
Run Type:	MB	**Dilution:**	1
Lab ID:	KQ2115544-04	**Raw Units:**	ng/mL

Target Compounds

Final Conc.Units: ng/g

Parameter Name	RT	RT Dev	Response	Solution Conc	Final Conc	Q	Rpt?
Perfluorobutane sulfonic acid (PFBS)	4.021	-0.01	33	0.0002	0.0016	U	Y
Perfluorohexane sulfonic acid (PFHxS)	4.406	0.00	2603	0.0002	0.0016	U	Y
Perfluoroheptane sulfonic acid (PFHpS)	4.569	-0.01	22	0.0002	0.0016	U	Y
Perfluorooctane sulfonic acid (PFOS)	4.742	0.00	276	0.0031	0.025	U	Y
Perfluorodecane sulfonic acid (PFDS)	0		0	0	0	U	Y
Perfluorobutanoic acid (PFBA)	0		0	0	0	U	Y
Perfluoropentanoic acid (PFPeA)	3.972	0.00	16777	-0.0063	0	U	Y
Perfluorohexanoic acid (PFHxA)	4.224	-0.01	7355	0.0097	0.078	U	Y
Perfluoroheptanoic acid (PFHpA)	4.409	0.00	1924	0.0030	0.024	U	Y
Perfluorooctanoic acid (PFOA)	4.572	-0.01	6503	0.0070	0.056	U	Y
Perfluorononanoic acid (PFNA)	4.734	-0.02	571	0.0009	0.0072	U	Y
Perfluorodecanoic acid (PFDA)	4.935	-0.01	1739	0.0027	0.022	U	Y
Perfluoroundecanoic acid (PFUnDA)	5.123	+0.00	1580	0.0023	0.018	U	Y
Perfluorododecanoic acid (PFDoDA)	5.254	-0.04	1454	0.0024	0.019	U	Y
Perfluorotridecanoic acid (PFTrDA)	5.446		1668	0.0027	0.022	U	Y
Perfluorotetradecanoic acid (PFTeDA)	5.593		4383	0.0066	0.053	U	Y
Perfluorooctane sulfonamide (FOSA)	5.219	-0.01	353	0.0011	0.0088	U	Y
N-Methyl perfluorooctane sulfonamide (MeFOSA)	5.621	+0.02	668	0.0065	0.052	U	Y
N-Ethyl perfluorooctane sulfonamide (EtFOSA)	0		0	0	0	U	Y
N-Methyl perfluorooctane sulfonamidoethanol	5.576	-0.01	312	0.0023	0.018	U	Y
N-Ethyl perfluorooctane sulfonamidoethanol	0		0	0	0	U	Y
6:2 Fluorotelomer sulfonic acid (6:2 FTS)	4.566	0.00	703	0.0046	0.037	U	Y
8:2 Fluorotelomer sulfonic acid (8:2 FTS)	0		0	0	0	U	Y

Prep Amount:	1 g	**Dilution:**	1
Prep Final Amount:	8.00 mL	**Basis Factor:**	100.00

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

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Insight Report
Quantitation/Integration
Printed 9/14/2021 18:48:54

210914_017

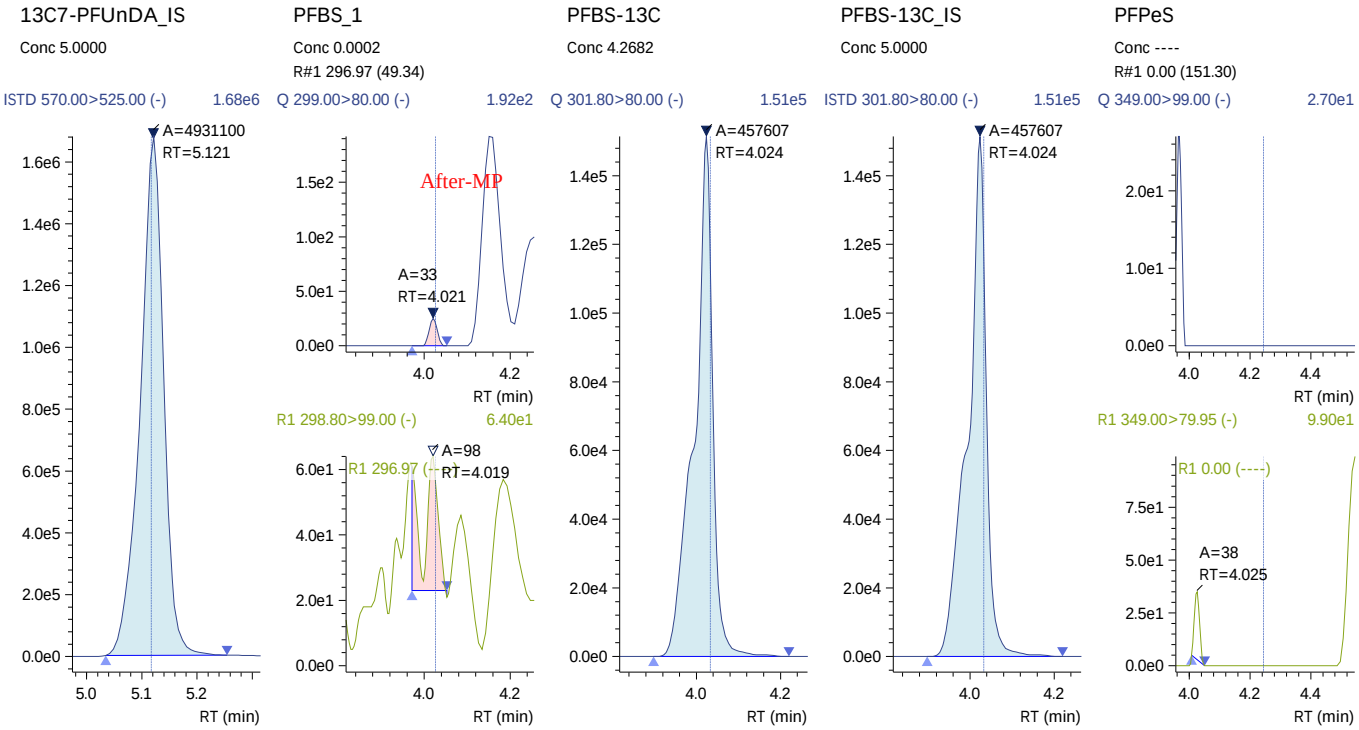
Sample ID: KQ2115544-04
Date Acquired: 9/14/2021 1:52:39 PM
Acquired by: System Administrator
Data File: 210914_017
Vial: 1 | Inj. Volume: 15.0000uL | Tray: 3

Name	Mode ID	Found RT	Area	ISTD Area	ISTD Name	Std. Conc.	Conc.	Unit
13C7-PFUnDA_IS	Auto	5.121	4931100	4931100	----	----	5.0000	ng/mL
PFBS_1	M	4.021	33	457607	PFBS-13C_IS	----	0.0002	ng/mL
PFBS-13C	Auto	4.024	457607	4931100	13C7-PFUnDA_IS	----	4.2682	ng/mL
PFBS-13C_IS	Auto	4.024	457607	457607	----	----	5.0000	ng/mL
PFPeS	ND(W/B)	----	----	457607	PFBS-13C_IS	----	----	ng/mL
PFHxS_1	Auto	4.406	2603	376649	PFHxS-18O_IS	----	0.0002	ng/mL
PFHxS-18O	Auto	4.406	376649	4931100	13C7-PFUnDA_IS	----	4.9254	ng/mL
PFHxS-18O_IS	Auto	4.406	376649	376649	----	----	5.0000	ng/mL
PFHpS_1	M	4.569	22	376649	PFHxS-18O_IS	----	0.0002	ng/mL
PFOS_1	Auto	4.742	276	471128	PFOS-13C_IS	----	0.0031	ng/mL
PFOS-13C	Auto	4.742	471128	4931100	13C7-PFUnDA_IS	----	4.5084	ng/mL
PFOS-13C_IS	Auto	4.742	471128	471128	----	----	5.0000	ng/mL
PFNS	ND(W/B)	----	----	471128	PFOS-13C_IS	----	----	ng/mL
PFDS_1	ND(W/B)	----	----	471128	PFOS-13C_IS	----	----	ng/mL
PFBA	ND(W/B)	----	----	1691716	PFBA-13C_IS	----	----	ng/mL
PFBA-13C	Auto	3.394	1691716	4931100	13C7-PFUnDA_IS	----	4.3982	ng/mL
PFBA-13C_IS	Auto	3.394	1691716	1691716	----	----	5.0000	ng/mL
PFPeA	M	3.972	16777	970087	PFPeA-13C_IS	----	-0.0063	ng/mL
PFPeA-13C	Auto	3.969	970087	4931100	13C7-PFUnDA_IS	----	4.4130	ng/mL
PFPeA-13C_IS	Auto	3.969	970087	970087	----	----	5.0000	ng/mL
PFHxA	M	4.224	7355	2891343	PFHxA-13C_IS	----	0.0097	ng/mL
PFHxA-13C	Auto	4.225	2891343	4931100	13C7-PFUnDA_IS	----	4.6354	ng/mL
PFHxA-13C_IS	Auto	4.225	2891343	2891343	----	----	5.0000	ng/mL
PFHpA	M	4.409	1924	2673357	PFHpA-13C_IS	----	0.0030	ng/mL
PFHpA-13C	Auto	4.407	2673357	4931100	13C7-PFUnDA_IS	----	4.7259	ng/mL
PFHpA-13C_IS	Auto	4.407	2673357	2673357	----	----	5.0000	ng/mL
PFOA	Auto	4.572	6503	3383782	PFOA-13C_IS	----	0.0070	ng/mL
PFOA-13C	Auto	4.580	3383782	4931100	13C7-PFUnDA_IS	----	4.4744	ng/mL
PFOA-13C_IS	Auto	4.580	3383782	3383782	----	----	5.0000	ng/mL
PFNA	M	4.734	571	3088053	PFNA-13C_IS	----	0.0009	ng/mL
PFNA-13C	Auto	4.753	3088053	4931100	13C7-PFUnDA_IS	----	4.7395	ng/mL
PFNA-13C_IS	Auto	4.753	3088053	3088053	----	----	5.0000	ng/mL
PFDA	Auto	4.935	1739	2285936	PFDA-13C_IS	----	0.0027	ng/mL
PFDA-13C	Auto	4.941	2285936	4931100	13C7-PFUnDA_IS	----	5.0462	ng/mL
PFDA-13C_IS	Auto	4.941	2285936	2285936	----	----	5.0000	ng/mL
PFUnA	Auto	5.123	1580	3116044	PFUnA-13C_IS	----	0.0023	ng/mL
PFUnA-13C	Auto	5.121	3116044	4931100	13C7-PFUnDA_IS	----	4.5620	ng/mL
PFUnA-13C_IS	Auto	5.121	3116044	3116044	----	----	5.0000	ng/mL
PFDoA	Auto	5.254	1454	3374497	PFDoA-13C_IS	----	0.0024	ng/mL
PFDoA-13C	Auto	5.289	3374497	4931100	13C7-PFUnDA_IS	----	4.4790	ng/mL
PFDoA-13C_IS	Auto	5.289	3374497	3374497	----	----	5.0000	ng/mL
PFTrDA	M	5.446	1668	2995898	PFTeDA-13C_IS	----	0.0027	ng/mL
PFTeDA	M	5.593	4383	2995898	PFTeDA-13C_IS	----	0.0066	ng/mL
PFTeDA-13C	Auto	5.591	2995898	4931100	13C7-PFUnDA_IS	----	3.9632	ng/mL
PFTeDA-13C_IS	Auto	5.591	2995898	2995898	----	----	5.0000	ng/mL
FOSA	Auto	5.219	353	1398495	FOSA-13C_IS	----	0.0011	ng/mL
FOSA-13C	Auto	5.224	1398495	4931100	13C7-PFUnDA_IS	----	4.4589	ng/mL
FOSA-13C_IS	Auto	5.224	1398495	1398495	----	----	5.0000	ng/mL
N-MeFOSA	M	5.621	668	268355	N-MeFOSA-d3_IS	----	0.0065	ng/mL
N-MeFOSA-d3	Auto	5.597	268355	4931100	13C7-PFUnDA_IS	----	3.8132	ng/mL
N-MeFOSA-d3_IS	Auto	5.597	268355	268355	----	----	5.0000	ng/mL
N-EtFOSA	ND(W/B)	----	----	339880	N-EtFOSA-d9_IS	----	----	ng/mL
N-EtFOSA-d9	Auto	5.718	339880	4931100	13C7-PFUnDA_IS	----	4.1456	ng/mL
N-EtFOSA-d9_IS	Auto	5.718	339880	339880	----	----	5.0000	ng/mL

210914_017 (continued)

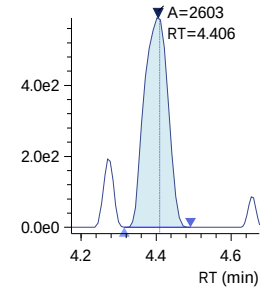
(Table continued from previous page)

Name	Mode ID	Found RT	Area	ISTD Area	ISTD Name	Std. Conc.	Conc.	Unit
N-MeFOSE	M	5.576	312	378920	N-MeFOSE-d7_IS	----	0.0023	ng/mL
N-MeFOSE-d7	Auto	5.574	378920	4931100	13C7-PFUnDA_IS	----	3.4967	ng/mL
N-MeFOSE-d7_IS	Auto	5.574	378920	378920	----	----	5.0000	ng/mL
N-EtFOSE	ND(W/B)	----	----	422293	N-EtFOSE-d9_IS	----	----	ng/mL
N-EtFOSE-d9	Auto	5.691	422293	4931100	13C7-PFUnDA_IS	----	4.1151	ng/mL
N-EtFOSE-d9_IS	Auto	5.691	422293	422293	----	----	5.0000	ng/mL
N-MeFOSAA	Auto	5.038	921	405196	N-MeFOSAA-d3_IS	----	0.0232	ng/mL
N-MeFOSAA-d3	Auto	5.038	405196	4931100	13C7-PFUnDA_IS	----	3.2547	ng/mL
N-MeFOSAA-d3_IS	Auto	5.038	405196	405196	----	----	5.0000	ng/mL
N-EtFOSAA	ND(W/B)	----	----	382918	N-EtFOSAA-d5_IS	----	----	ng/mL
N-EtFOSAA-d5	Auto	5.132	382918	4931100	13C7-PFUnDA_IS	----	3.6374	ng/mL
N-EtFOSAA-d5_IS	Auto	5.132	382918	382918	----	----	5.0000	ng/mL
4_2-FTS_1	ND(W/B)	----	----	451304	4_2-FTS-13C_IS	----	----	ng/mL
4_2-FTS-13C	Auto	4.201	451304	4931100	13C7-PFUnDA_IS	----	3.8679	ng/mL
4_2-FTS-13C_IS	Auto	4.201	451304	451304	----	----	5.0000	ng/mL
6_2-FTS_1	Auto	4.566	703	583097	6_2-FTS-13C_IS	----	0.0046	ng/mL
6_2-FTS-13C	Auto	4.569	583097	4931100	13C7-PFUnDA_IS	----	5.9149	ng/mL
6_2-FTS-13C_IS	Auto	4.569	583097	583097	----	----	5.0000	ng/mL
8_2-FTS_1	ND(W/B)	----	----	436811	8_2-FTS-13C_IS	----	----	ng/mL
8_2-FTS-13C	Auto	4.940	436811	4931100	13C7-PFUnDA_IS	----	6.0953	ng/mL
8_2-FTS-13C_IS	Auto	4.940	436811	436811	----	----	5.0000	ng/mL
10_2-FtS_1	Auto	5.270	2	436811	8_2-FTS-13C_IS	----	0.0000	ng/mL
HFPO_DA	ND(W/B)	----	----	524048	HFPO_DA-13C_IS	----	----	ng/mL
HFPO_DA-13C	Auto	4.292	524048	4931100	13C7-PFUnDA_IS	----	4.9595	ng/mL
HFPO_DA-13C_IS	Auto	4.292	524048	524048	----	----	5.0000	ng/mL

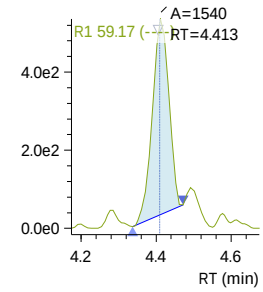


210914_017 (continued)

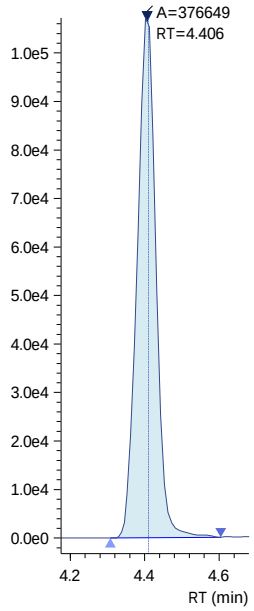
PFHxS_1
Conc 0.0002
R#1 59.17 (62.92)
Q 399.00>80.00 (-) 5.90e2



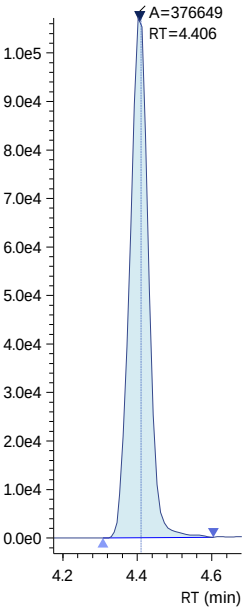
R1 399.00>99.00 (-) 5.36e2



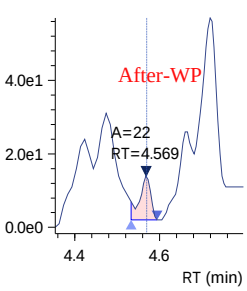
PFHxS-18O
Conc 4.9254
Q 402.70>84.05 (-) 1.07e5



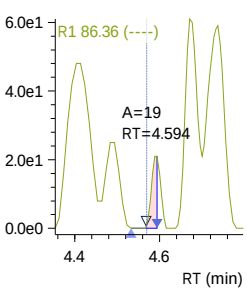
PFHxS-18O_IS
Conc 5.0000
ISTD 402.70>84.05 (-) 1.07e5



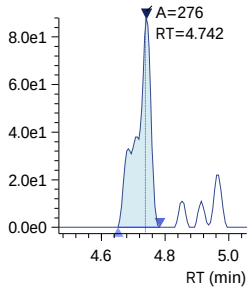
PFHpS_1
Conc 0.0002
R#1 86.36 (40.53)
Q 449.00>80.15 (-) 5.70e1



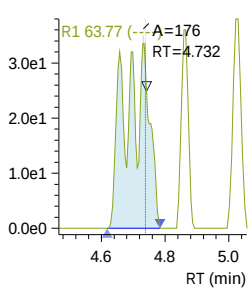
R1 449.00>99.20 (-) 6.10e1



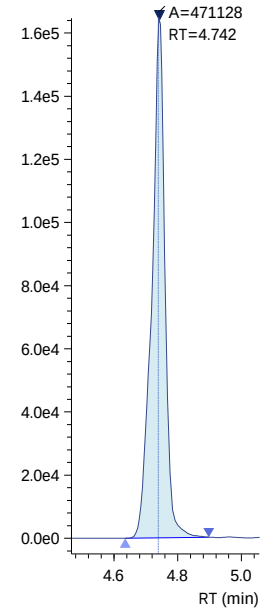
PFOS_1
Conc 0.0031
R#1 63.77 (73.81)
Q 499.00>80.00 (-) 8.80e1



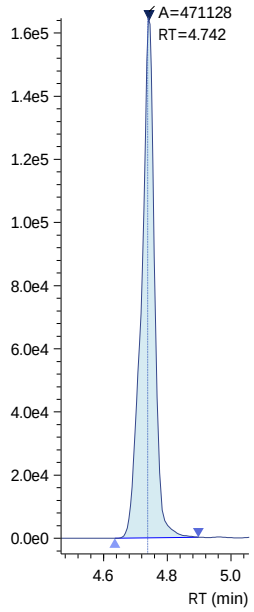
R1 499.00>99.00 (-) 3.80e1



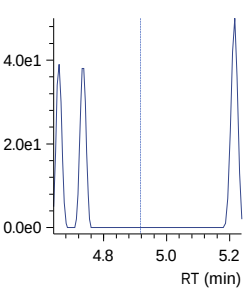
PFOS-13C
Conc 4.5084
Q 502.80>80.05 (-) 1.65e5



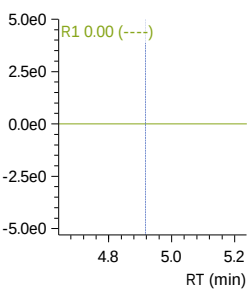
PFOS-13C_IS
Conc 5.0000
ISTD 502.80>80.05 (-) 1.65e5



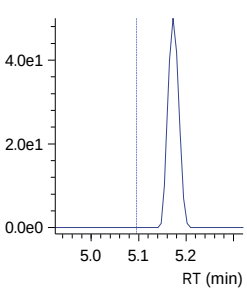
PFNS
Conc ----
R#1 0.00 (160.25)
Q 549.00>99.00 (-) 5.00e1



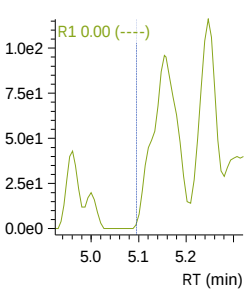
R1 549.00>79.95 (-) 0.00e0



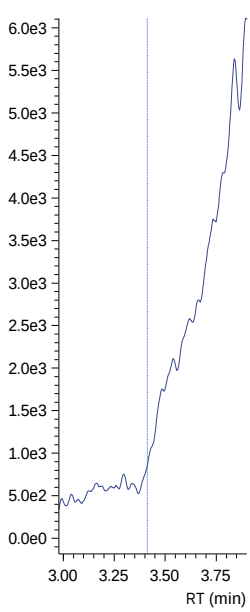
PFDS_1
Conc ----
R#1 0.00 (72.12)
Q 599.00>79.90 (-) 5.00e1



R1 599.00>99.10 (-) 1.16e2

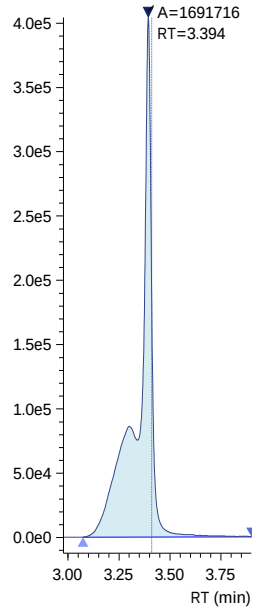


PFBA
Conc ----
Q 213.00>169.10 (-) 6.11e3

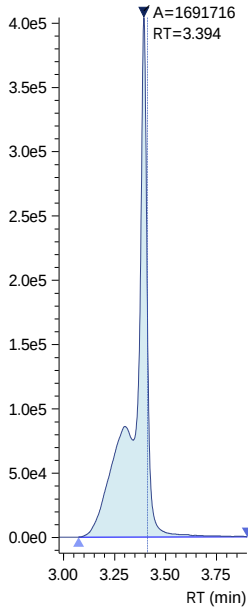


210914_017 (continued)

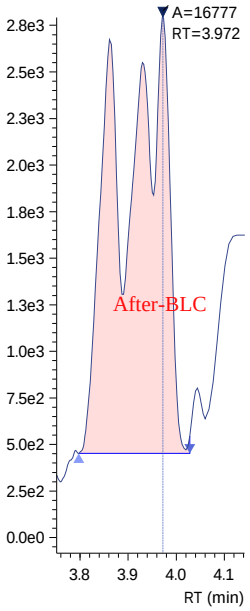
PFBA-13C
Conc 4.3982
Q 216.90>172.15 (-) 4.04e5



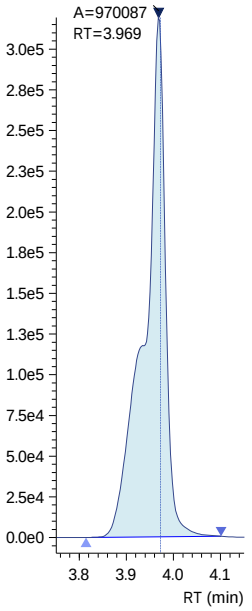
PFBA-13C_IS
Conc 5.0000
ISTD 216.90>172.15 (-) 4.04e5



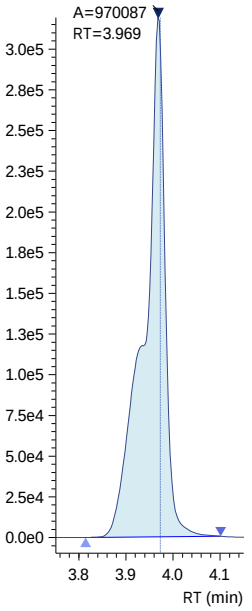
PFPeA
Conc -0.0063
Q 263.05>219.10 (-) 2.79e3



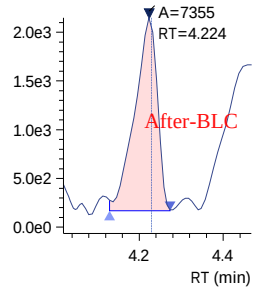
PFPeA-13C
Conc 4.4130
Q 267.90>223.00 (-) 3.19e5



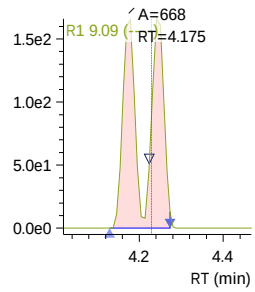
PFPeA-13C_IS
Conc 5.0000
ISTD 267.90>223.00 (-) 3.19e5



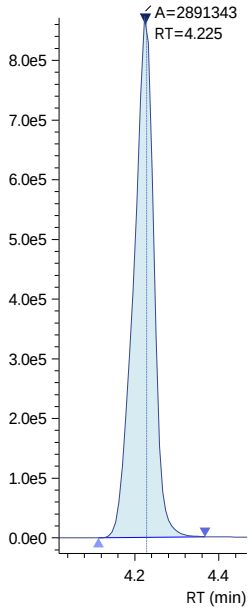
PFHxA
Conc 0.0097
R#1 9.09 (4.40)
Q 313.00>269.00 (-) 2.15e3



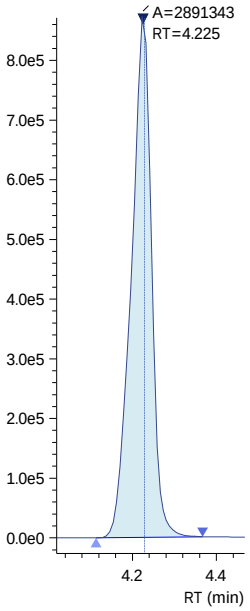
R1 313.00>119.10 (-) 1.66e2



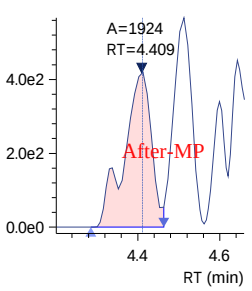
PFHxA-13C
Conc 4.6354
Q 314.90>270.10 (-) 8.71e5



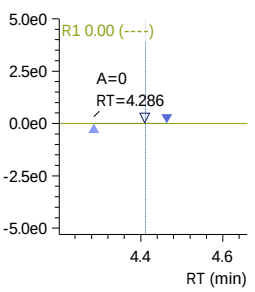
PFHxA-13C_IS
Conc 5.0000
ISTD 314.90>270.10 (-) 8.71e5



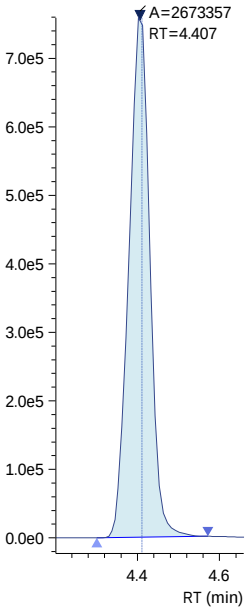
PFHpA
Conc 0.0030
R#1 0.00 (24.40)
Q 362.90>319.00 (-) 5.67e2



R1 362.90>169.00 (-) 0.00e0

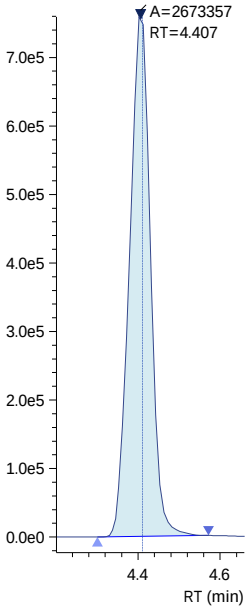


PFHpA-13C
Conc 4.7259
Q 366.90>322.10 (-) 7.59e5

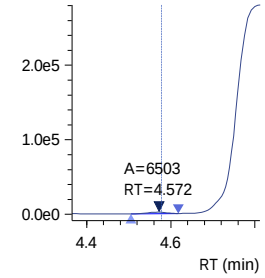


210914_017 (continued)

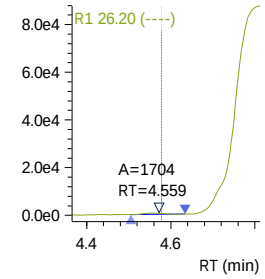
PFHpA-13C_IS
Conc 5.0000
ISTD 366.90>322.10 (-) 7.59e5



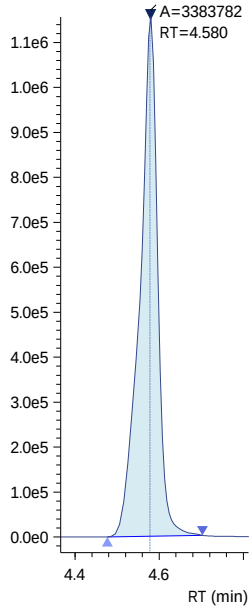
PFOA
Conc 0.0070
R#1 26.20 (31.89)
Q 413.00>369.00 (-) 2.81e5



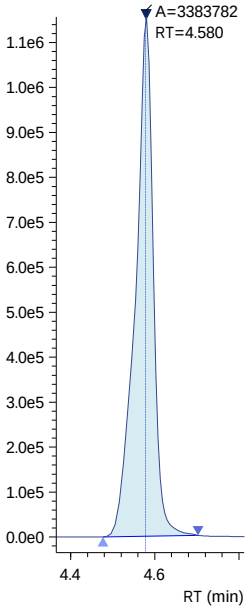
R1 413.00>169.10 (-) 8.78e4



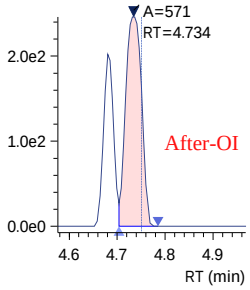
PFOA-13C
Conc 4.4744
Q 416.80>372.05 (-) 1.16e6



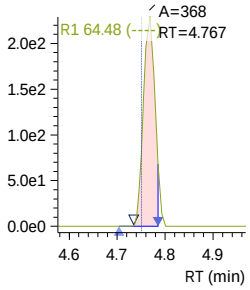
PFOA-13C_IS
Conc 5.0000
ISTD 416.80>372.05 (-) 1.16e6



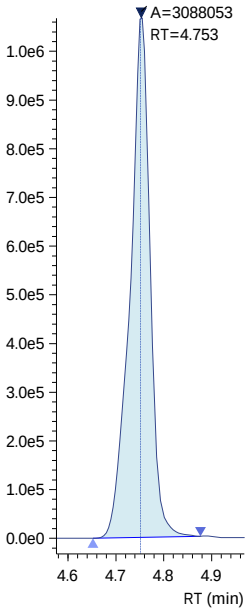
PFNA
Conc 0.0009
R#1 64.48 (23.25)
Q 463.00>418.90 (-) 2.46e2



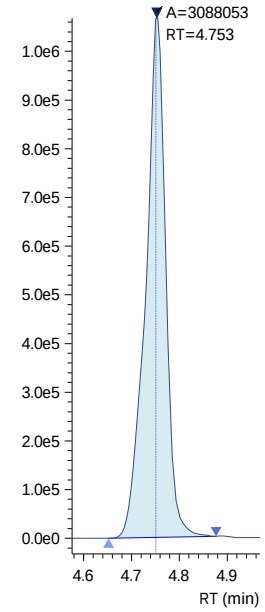
R1 463.00>219.00 (-) 2.29e2



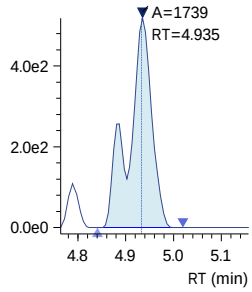
PFNA-13C
Conc 4.7395
Q 467.80>423.00 (-) 1.07e6



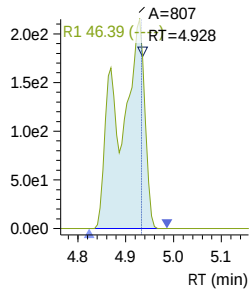
PFNA-13C_IS
Conc 5.0000
ISTD 467.80>423.00 (-) 1.07e6



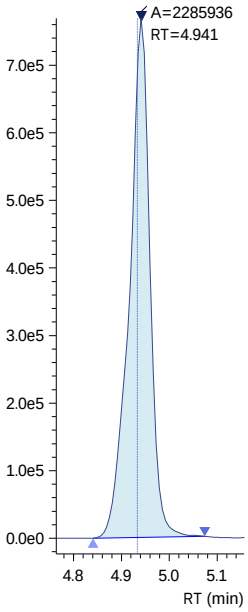
PFDA
Conc 0.0027
R#1 46.39 (20.24)
Q 513.00>468.80 (-) 5.18e2



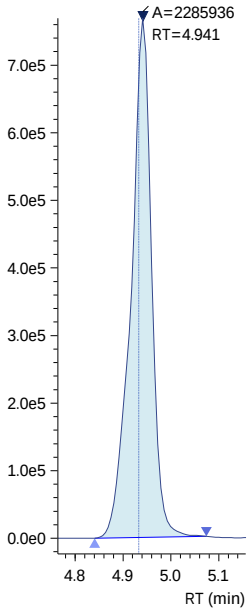
R1 513.00>219.10 (-) 2.15e2



PFDA-13C
Conc 5.0462
Q 514.80>469.95 (-) 7.69e5



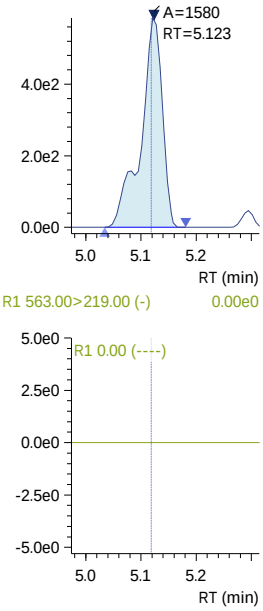
PFDA-13C_IS
Conc 5.0000
ISTD 514.80>469.95 (-) 7.69e5



Insight Report
Quantitation/Integration
Printed 9/14/2021 18:48:54

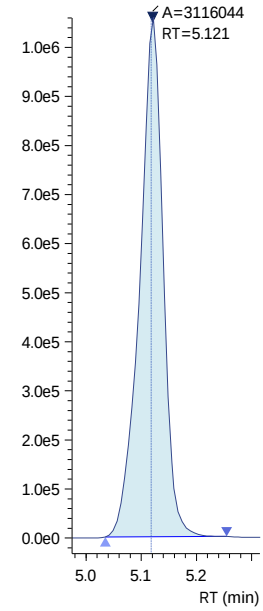
210914_017 (continued)

PFUnA
Conc 0.0023
R#1 0.00 (12.46)
Q 563.00>518.90 (-) 5.85e2



R1 563.00>219.00 (-) 0.00e0

PFUnA-13C
Conc 4.5620
Q 564.80>519.95 (-) 1.06e6



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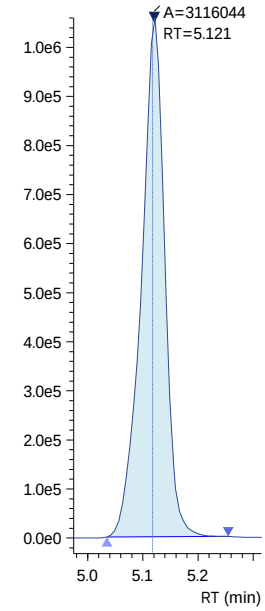
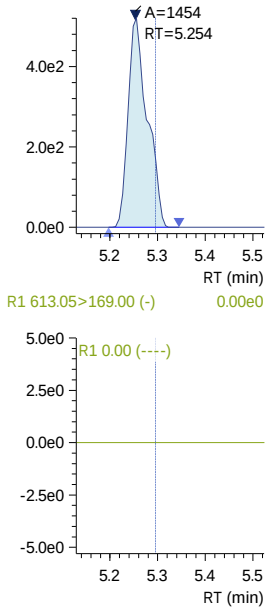
Conc 5.0000
ISTD 564.80>519.95 (-) 1.06e6

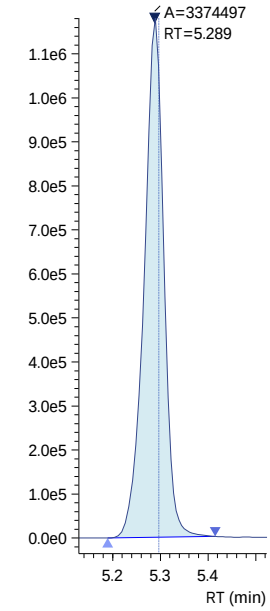


PFDoA
Conc 0.0024
R#1 0.00 (16.50)
Q 613.05>569.00 (-) 5.21e2

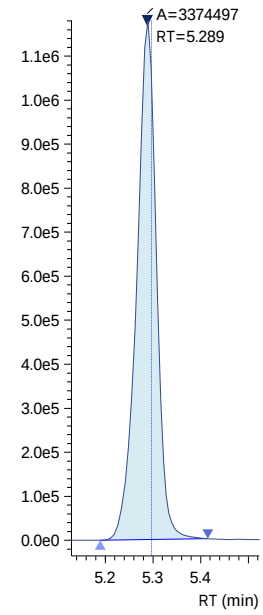


R1 613.05>169.00 (-) 0.00e0

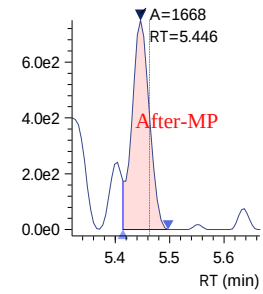
PFDoA-13C
Conc 4.4790
Q 614.80>569.95 (-) 1.18e6



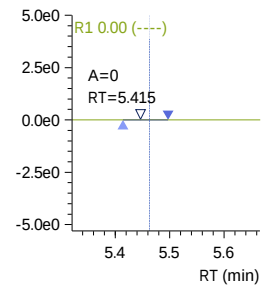
PFDoA-13C_IS
Conc 5.0000
ISTD 614.80>569.95 (-) 1.18e6



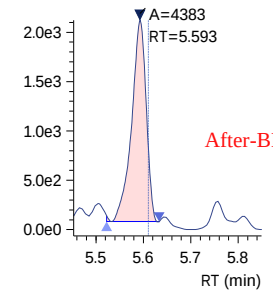
PFTrDA
Conc 0.0027
R#1 0.00 (15.29)
Q 663.00>618.90 (-) 7.50e2



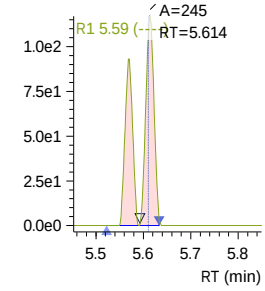
R1 662.90>169.00 (-) 0.00e0



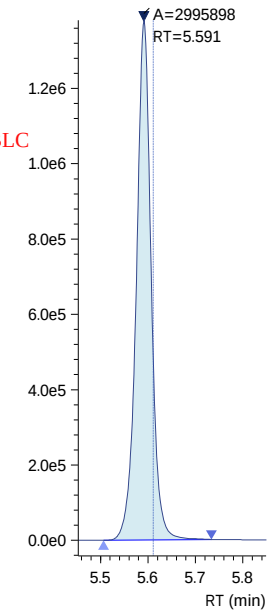
PFTeDA
Conc 0.0066
R#1 5.59 (17.47)
Q 713.00>669.00 (-) 2.12e3



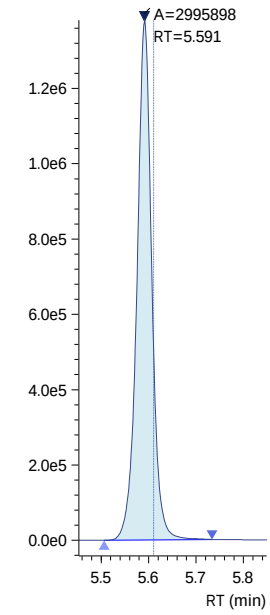
R1 713.00>169.10 (-) 1.17e2



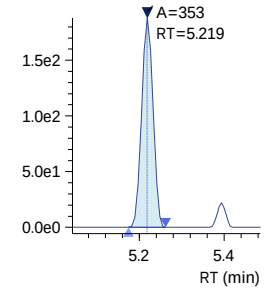
PFTeDA-13C
Conc 3.9632
Q 714.70>669.90 (-) 1.38e6

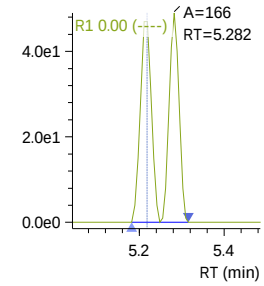


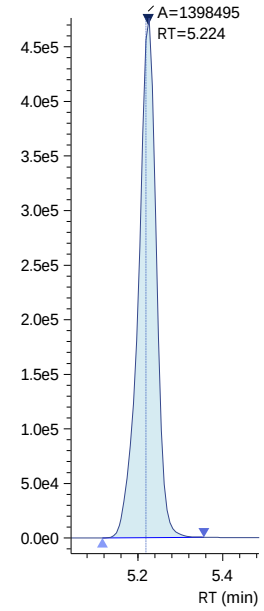
PFTeDA-13C_IS
Conc 5.0000
ISTD 714.70>669.90 (-) 1.38e6

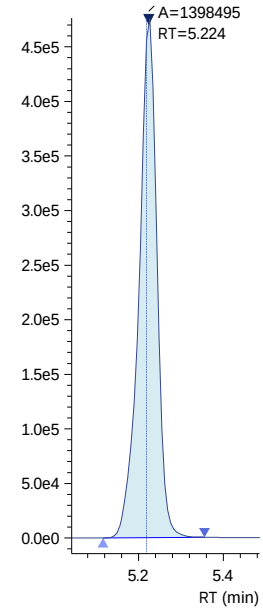


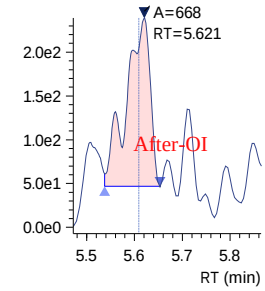
210914_017 (continued)

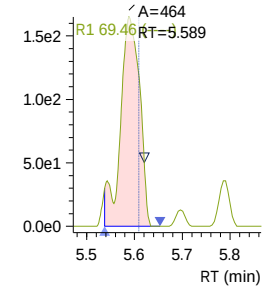
FOSA
Conc 0.0011
R#1 0.00 (5.19)
Q 498.20>78.00 (-) 1.88e2


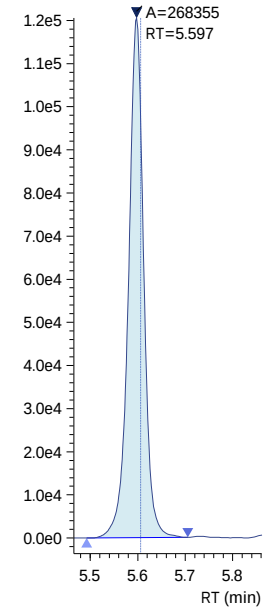
R1 498.20>64.10 (-) 4.90e1


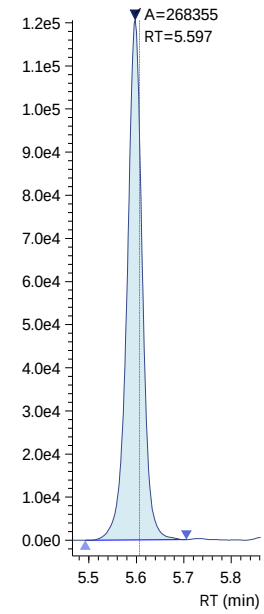
FOSA-13C
Conc 4.4589
Q 506.00>78.05 (-) 4.76e5


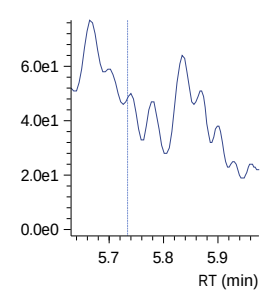
FOSA-13C_IS
Conc 5.0000
ISTD 506.00>78.05 (-) 4.76e5


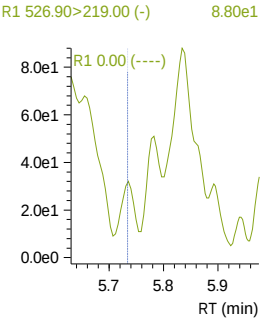
N-MeFOSA
Conc 0.0065
R#1 69.46 (69.94)
Q 512.00>169.10 (-) 2.39e2


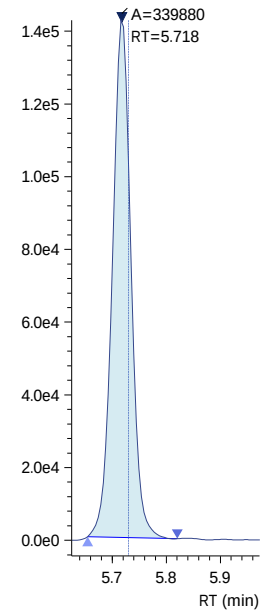
R1 512.00>219.00 (-) 1.65e2


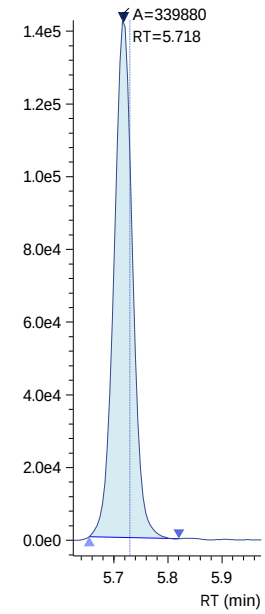
N-MeFOSA-d3
Conc 3.8132
Q 514.90>168.90 (-) 1.21e5


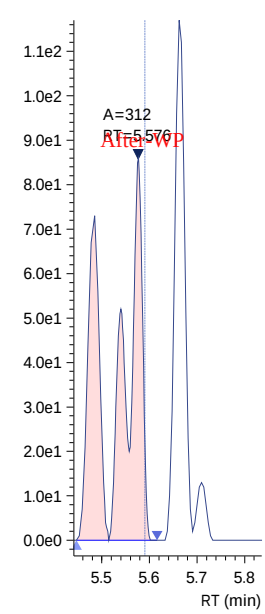
N-MeFOSA-d3_IS
Conc 5.0000
ISTD 514.90>168.90 (-) 1.21e5


N-EtFOSA
Conc ----
R#1 0.00 (66.52)
Q 526.90>169.10 (-) 7.70e1


R1 526.90>219.00 (-) 8.80e1


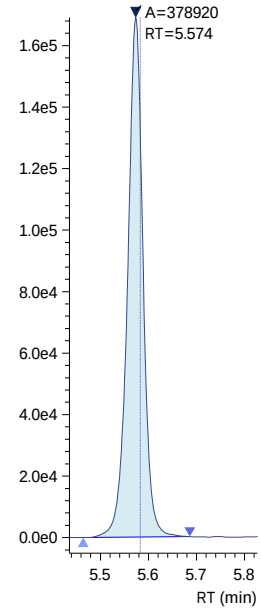
N-EtFOSA-d9
Conc 4.1456
Q 530.90>169.15 (-) 1.43e5


N-EtFOSA-d9_IS
Conc 5.0000
ISTD 530.90>169.15 (-) 1.43e5


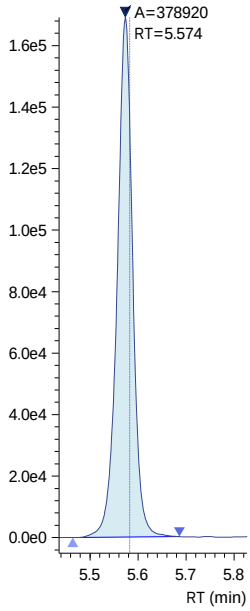
N-MeFOSE
Conc 0.0023
Q 616.00>59.00 (-) 1.17e2


210914_017 (continued)

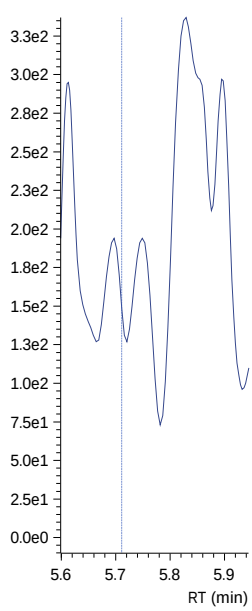
N-MeFOSE-d7
Conc 3.4967
Q 622.70>59.10 (-) 1.69e5



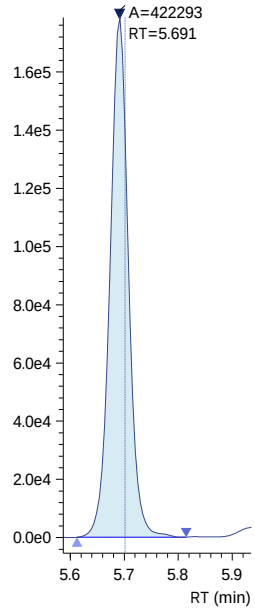
N-MeFOSE-d7_IS
Conc 5.0000
ISTD 622.70>59.10 (-) 1.69e5



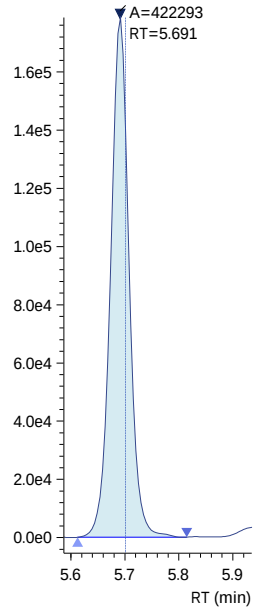
N-EtFOSE
Conc ----
Q 630.00>58.90 (-) 3.37e2



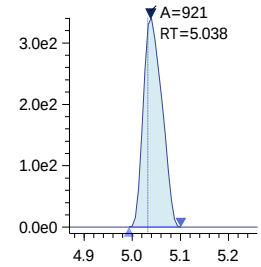
N-EtFOSE-d9
Conc 4.1151
Q 638.70>59.10 (-) 1.79e5



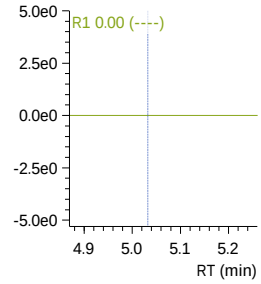
N-EtFOSE-d9_IS
Conc 5.0000
ISTD 638.70>59.10 (-) 1.79e5



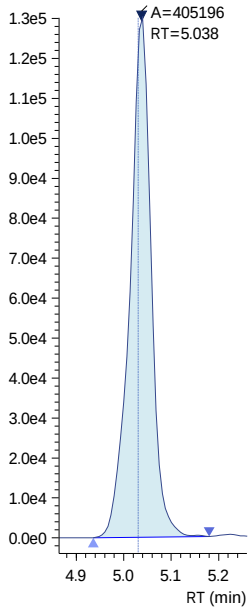
N-MeFOSAA
Conc 0.0232
R#1 0.00 (39.56)
Q 570.20>419.00 (-) 3.41e2



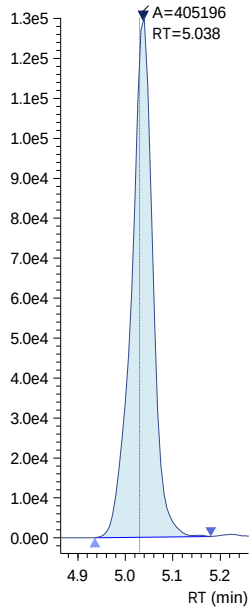
R1 570.20>512.00 (-) 0.00e0



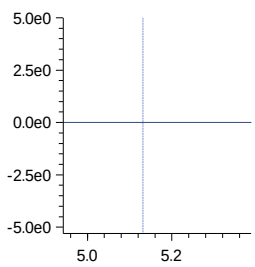
N-MeFOSAA-d3
Conc 3.2547
Q 572.80>419.05 (-) 1.30e5



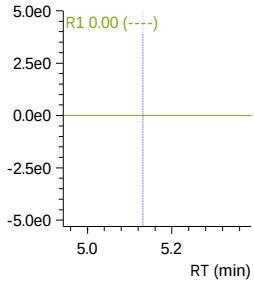
N-MeFOSAA-d3_IS
Conc 5.0000
ISTD 572.80>419.05 (-) 1.30e5



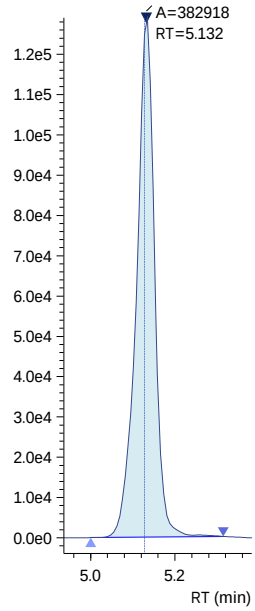
N-EtFOSAA
Conc ----
R#1 0.00 (84.54)
Q 584.20>418.95 (-) 0.00e0



R1 584.20>526.10 (-) 0.00e0

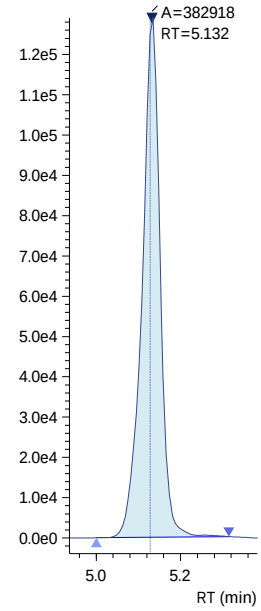


N-EtFOSAA-d5
Conc 3.6374
Q 588.80>419.00 (-) 1.29e5

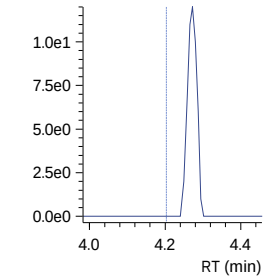


210914_017 (continued)

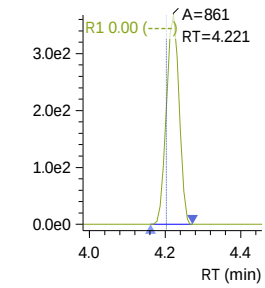
N-EtFOSAA-d5_IS
Conc 5.0000
ISTD 588.80>419.00 (-) 1.29e5



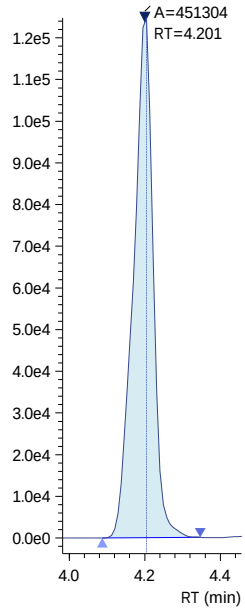
4_2-FTS_1
Conc ----
R#1 0.00 (34.12)
Q 327.00>307.05 (-) 1.20e1



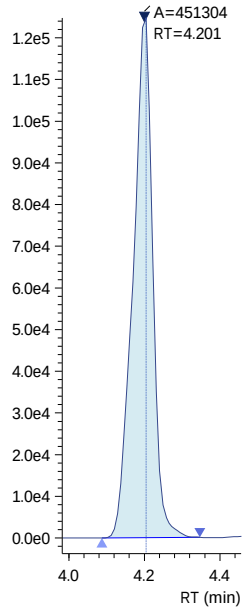
R1 327.00>81.10 (-) 3.68e2



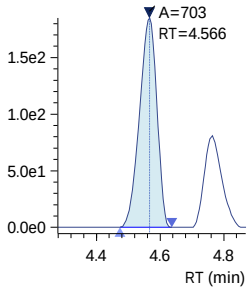
4_2-FTS-13C
Conc 3.8679
Q 328.80>309.05 (-) 1.25e5



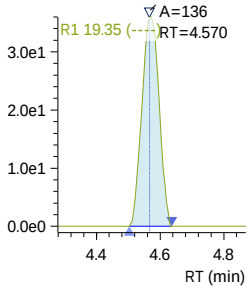
4_2-FTS-13C_IS
Conc 5.0000
ISTD 328.80>309.05 (-) 1.25e5



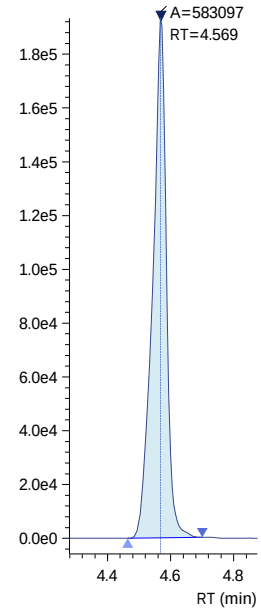
6_2-FTS_1
Conc 0.0046
R#1 19.35 (37.36)
Q 427.00>407.00 (-) 1.85e2



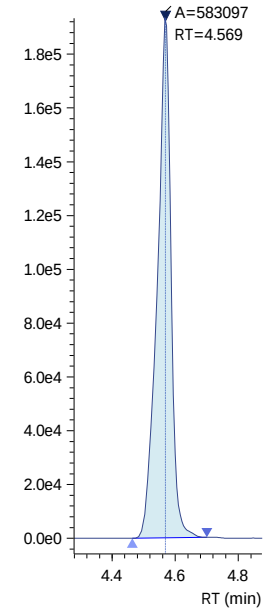
R1 427.00>80.90 (-) 3.60e1



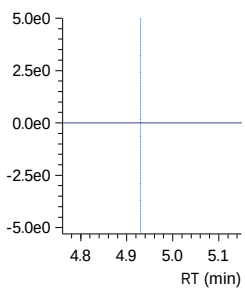
6_2-FTS-13C
Conc 5.9149
Q 428.90>409.00 (-) 1.93e5



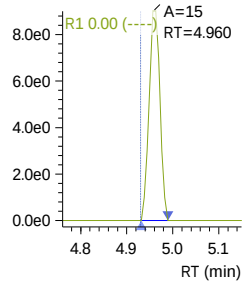
6_2-FTS-13C_IS
Conc 5.0000
ISTD 428.90>409.00 (-) 1.93e5



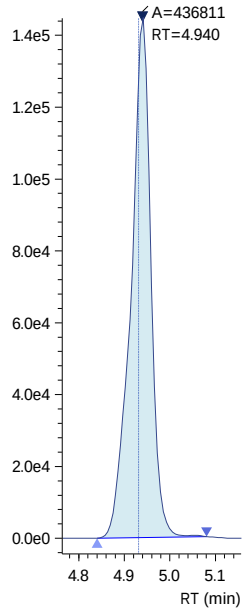
8_2-FTS_1
Conc ----
R#1 0.00 (10.63)
Q 527.10>506.90 (-) 0.00e0



R1 527.20>487.00 (-) 9.00e0



8_2-FTS-13C
Conc 6.0953
Q 528.80>509.00 (-) 1.45e5



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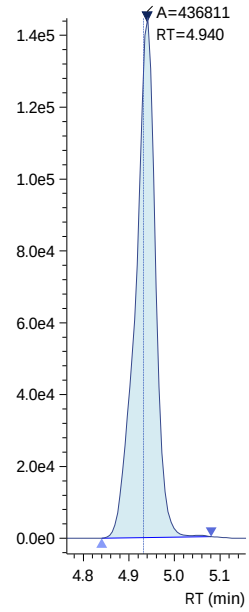
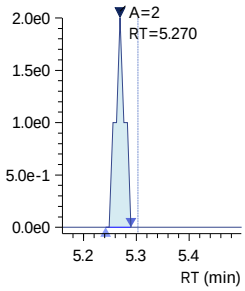
Conc 5.0000
ISTD 528.80>509.00 (-) 1.45e5

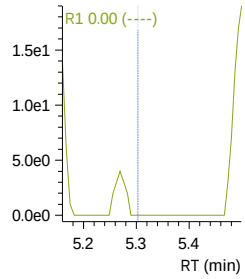


210914_017 (continued)

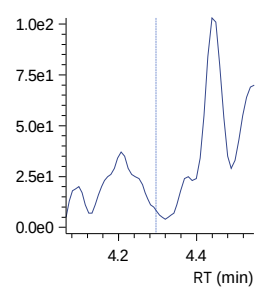
10_2-FtS_1
Conc 0.0000
R#1 0.00 (21.61)
Q 627.00>606.95 (-) 2.00e0



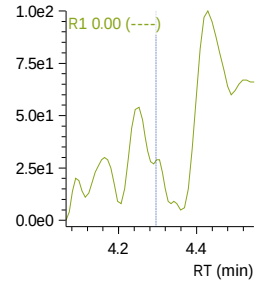
R1 627.00>81.25 (-) 1.90e1



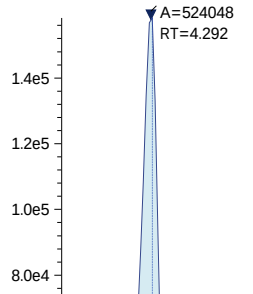
HPFO_DA
Conc ----
R#1 0.00 (106.46)
Q 329.00>169.00 (-) 1.03e2



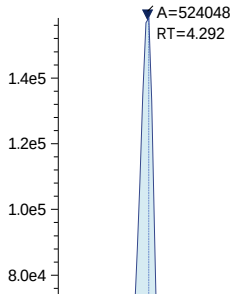
R1 329.00>285.10 (-) 1.00e2



HFPO_DA-13C
Conc 4.9595
Q 332.00>286.80 (-) 1.58e5



HFPO_DA-13C_IS
Conc 5.0000
ISTD 332.00>286.80 (-) 1.58e5

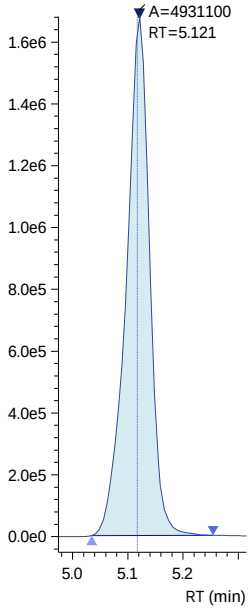


Insight Report
Before Manual Integration
Printed 9/14/2021 18:37:49

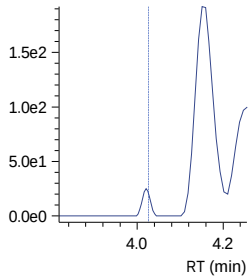
210914_017

Sample ID: KQ2115544-04
Date Acquired: 9/14/2021 1:52:39 PM
Acquired by: System Administrator
Data File: 210914_017
Vial: 1 | Inj. Volume: 15.0000uL | Tray: 3

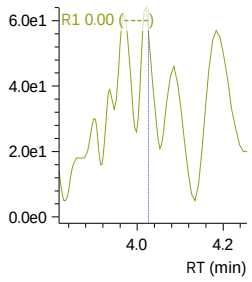
13C7-PFUnDA_IS
Conc 5.0000
ISTD 570.00>525.00 (-) 1.68e6



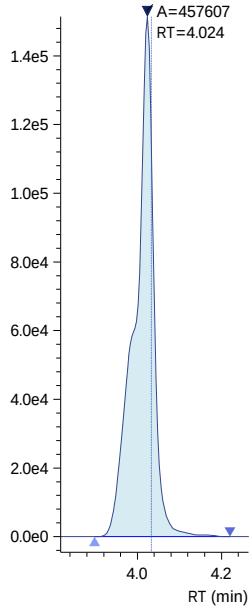
PFBS_1
Conc ----
R#1 0.00 (49.34)
Q 299.00>80.00 (-) 1.92e2



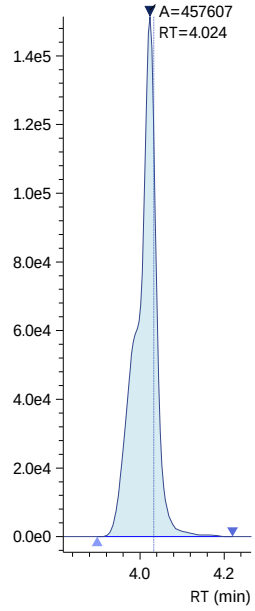
R1 298.80>99.00 (-) 6.40e1



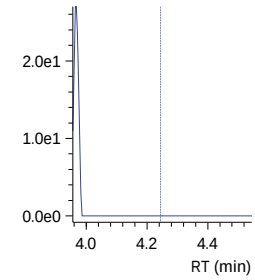
PFBS-13C
Conc 4.2682
Q 301.80>80.00 (-) 1.51e5



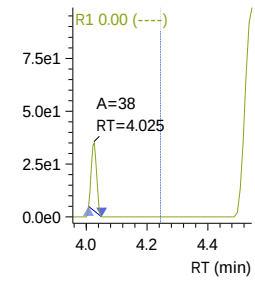
PFBS-13C_IS
Conc 5.0000
ISTD 301.80>80.00 (-) 1.51e5



PFPeS
Conc ----
R#1 0.00 (151.30)
Q 349.00>99.00 (-) 2.70e1

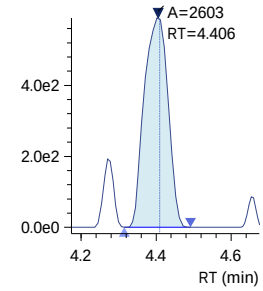


R1 349.00>79.95 (-) 9.90e1

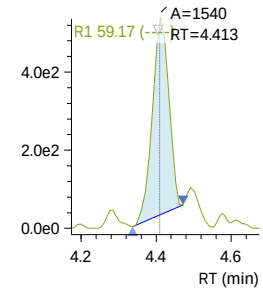


210914_017 (continued)

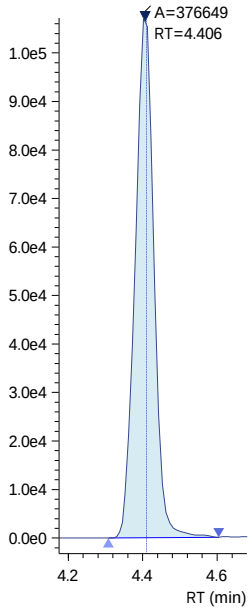
PFHxS_1
Conc 0.0002
R#1 59.17 (62.92)
Q 399.00>80.00 (-) 5.90e2



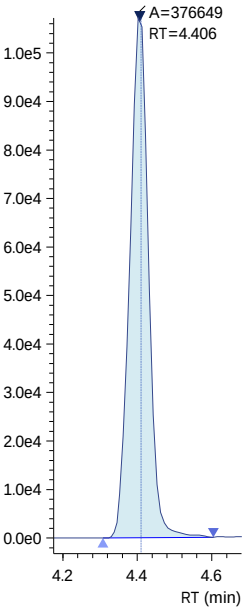
R1 399.00>99.00 (-) 5.36e2



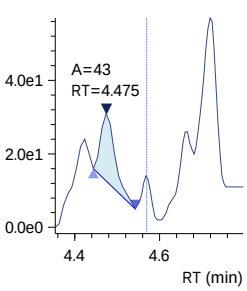
PFHxS-18O
Conc 4.9254
Q 402.70>84.05 (-) 1.07e5



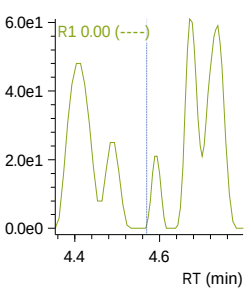
PFHxS-18O_IS
Conc 5.0000
ISTD 402.70>84.05 (-) 1.07e5



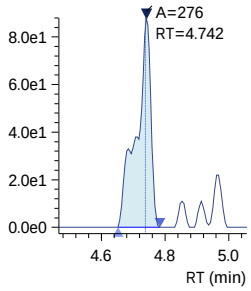
PFHpS_1
Conc 0.0003
R#1 0.00 (40.53)
Q 449.00>80.15 (-) 5.70e1



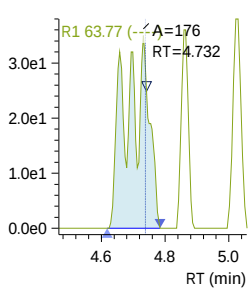
R1 449.00>99.20 (-) 6.10e1



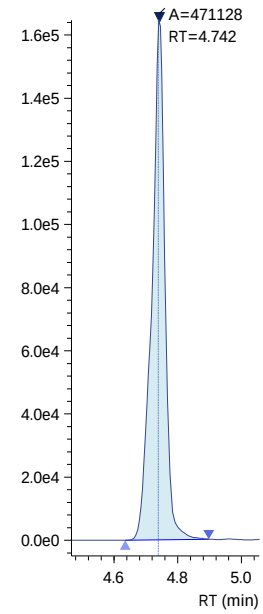
PFOS_1
Conc 0.0031
R#1 63.77 (73.81)
Q 499.00>80.00 (-) 8.80e1



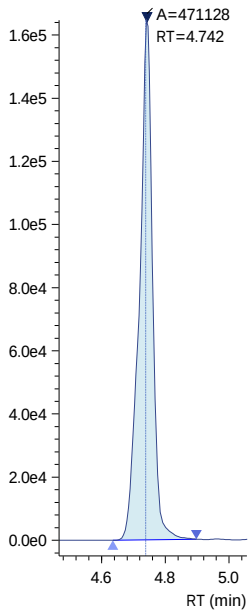
R1 499.00>99.00 (-) 3.80e1



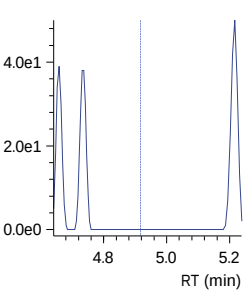
PFOS-13C
Conc 4.5084
Q 502.80>80.05 (-) 1.65e5



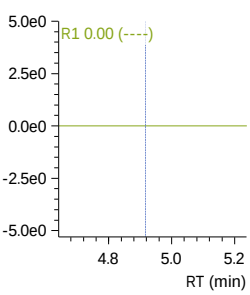
PFOS-13C_IS
Conc 5.0000
ISTD 502.80>80.05 (-) 1.65e5



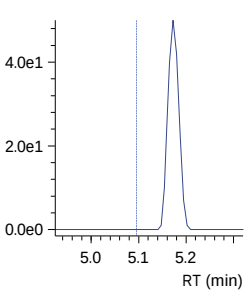
PFNS
Conc ----
R#1 0.00 (160.25)
Q 549.00>99.00 (-) 5.00e1



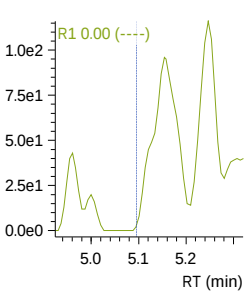
R1 549.00>79.95 (-) 0.00e0



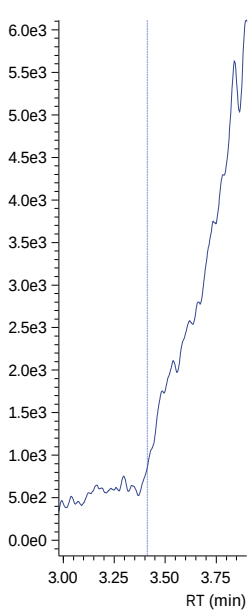
PFDS_1
Conc ----
R#1 0.00 (72.12)
Q 599.00>79.90 (-) 5.00e1



R1 599.00>99.10 (-) 1.16e2

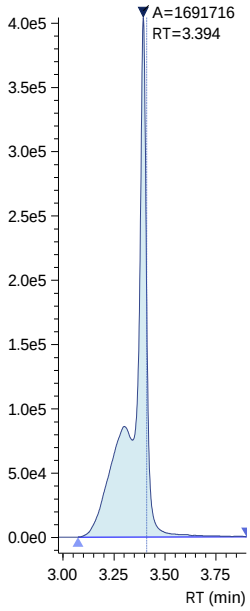


PFBA
Conc ----
Q 213.00>169.10 (-) 6.11e3

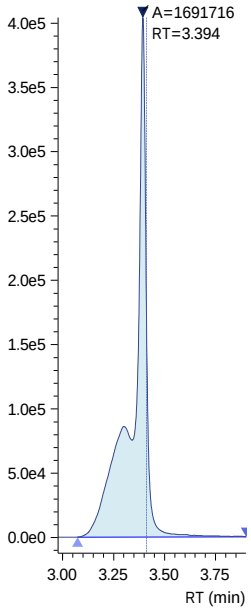


210914_017 (continued)

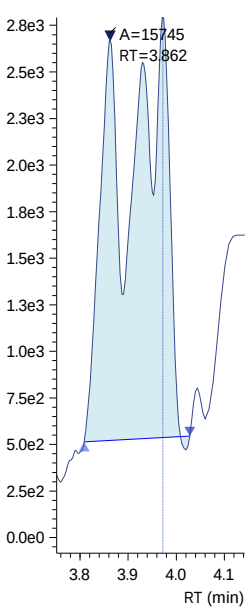
PFBA-13C
Conc 4.3982
Q 216.90>172.15 (-) 4.04e5



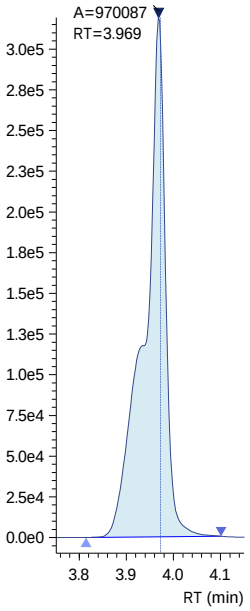
PFBA-13C_IS
Conc 5.0000
ISTD 216.90>172.15 (-) 4.04e5



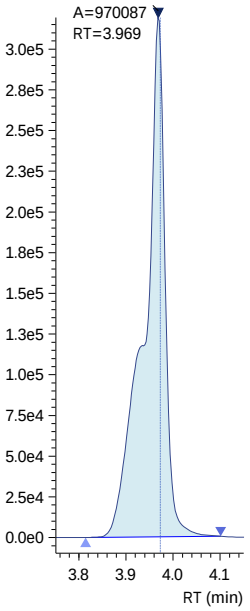
PFPeA
Conc -0.0080
Q 263.05>219.10 (-) 2.79e3



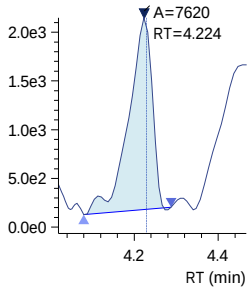
PFPeA-13C
Conc 4.4130
Q 267.90>223.00 (-) 3.19e5



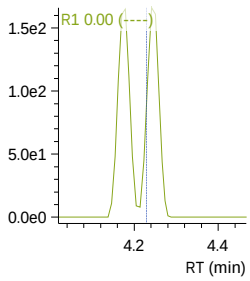
PFPeA-13C_IS
Conc 5.0000
ISTD 267.90>223.00 (-) 3.19e5



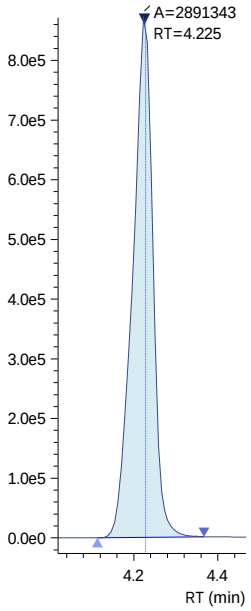
PFHxA
Conc 0.0101
R#1 0.00 (4.40)
Q 313.00>269.00 (-) 2.15e3



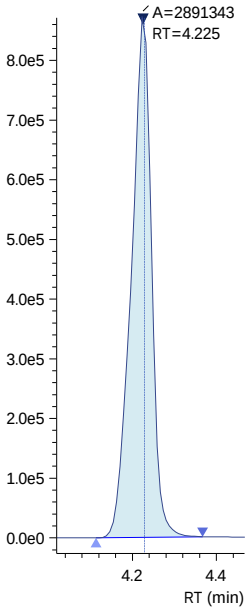
R1 313.00>119.10 (-) 1.66e2



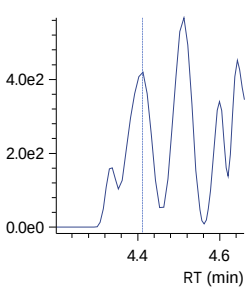
PFHxA-13C
Conc 4.6354
Q 314.90>270.10 (-) 8.71e5



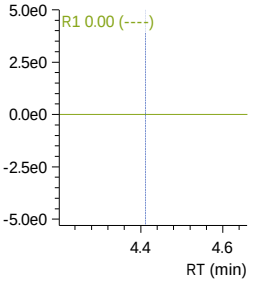
PFHxA-13C_IS
Conc 5.0000
ISTD 314.90>270.10 (-) 8.71e5



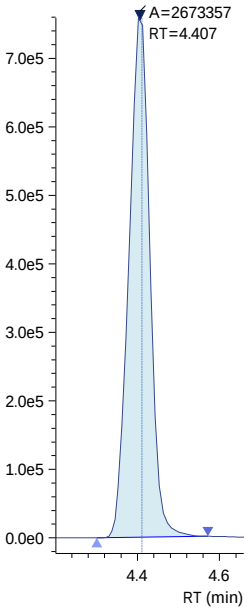
PFHpA
Conc ----
R#1 0.00 (24.40)
Q 362.90>319.00 (-) 5.67e2



R1 362.90>169.00 (-) 0.00e0

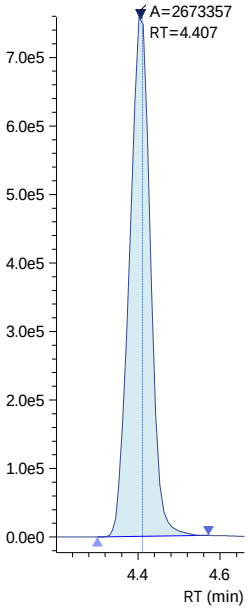


PFHpA-13C
Conc 4.7259
Q 366.90>322.10 (-) 7.59e5

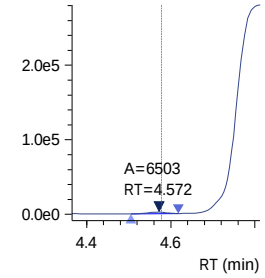


210914_017 (continued)

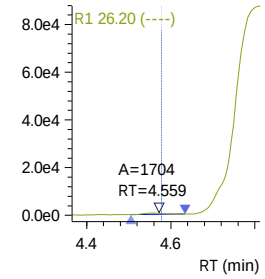
PFHpA-13C_IS
Conc 5.0000
ISTD 366.90>322.10 (-) 7.59e5



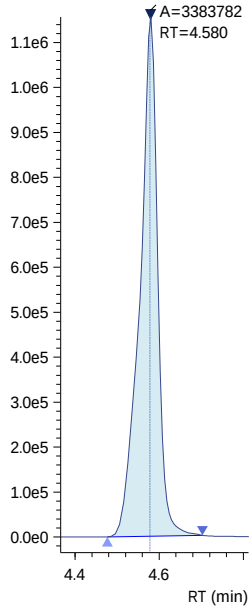
PFOA
Conc 0.0070
R#1 26.20 (31.89)
Q 413.00>369.00 (-) 2.81e5



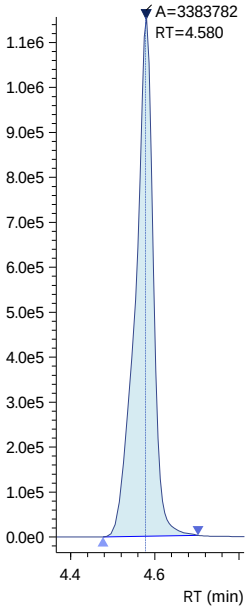
R1 413.00>169.10 (-) 8.78e4



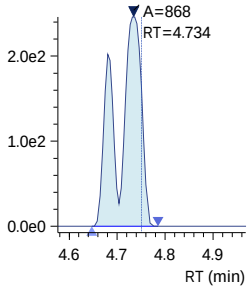
PFOA-13C
Conc 4.4744
Q 416.80>372.05 (-) 1.16e6



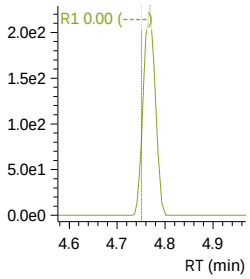
PFOA-13C_IS
Conc 5.0000
ISTD 416.80>372.05 (-) 1.16e6



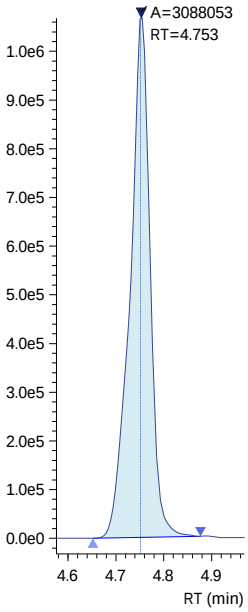
PFNA
Conc 0.0014
R#1 0.00 (23.25)
Q 463.00>418.90 (-) 2.46e2



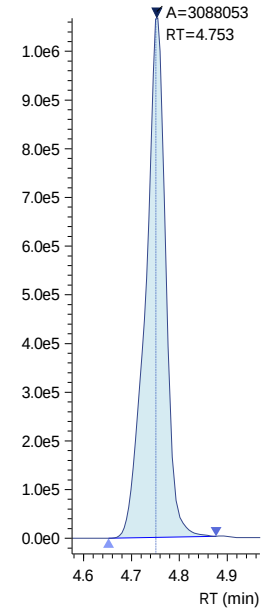
R1 463.00>219.00 (-) 2.29e2



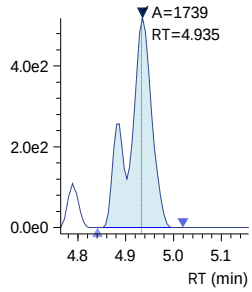
PFNA-13C
Conc 4.7395
Q 467.80>423.00 (-) 1.07e6



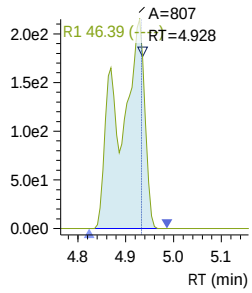
PFNA-13C_IS
Conc 5.0000
ISTD 467.80>423.00 (-) 1.07e6



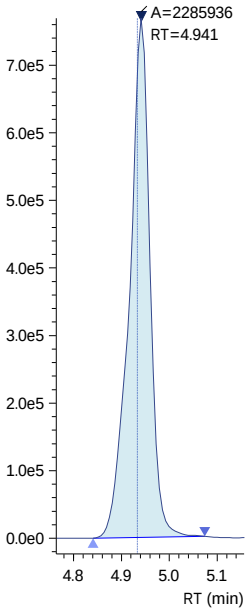
PFDA
Conc 0.0027
R#1 46.39 (20.24)
Q 513.00>468.80 (-) 5.18e2



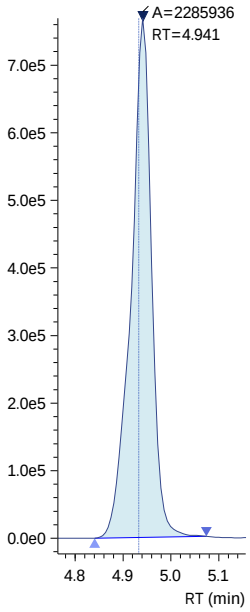
R1 513.00>219.10 (-) 2.15e2



PFDA-13C
Conc 5.0462
Q 514.80>469.95 (-) 7.69e5

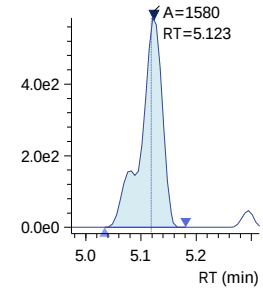


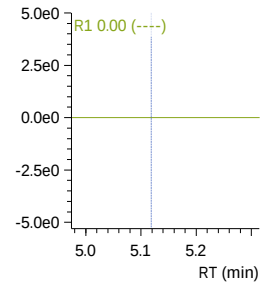
PFDA-13C_IS
Conc 5.0000
ISTD 514.80>469.95 (-) 7.69e5

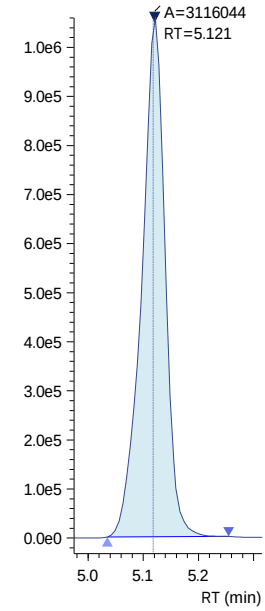


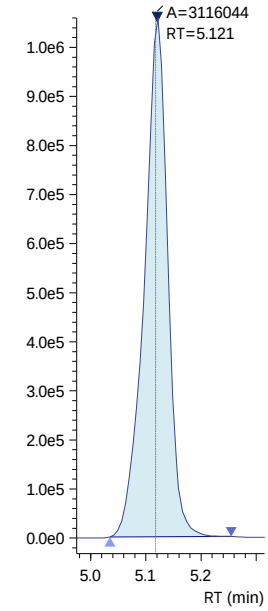
Insight Report
Before Manual Integration
Printed 9/14/2021 18:37:49

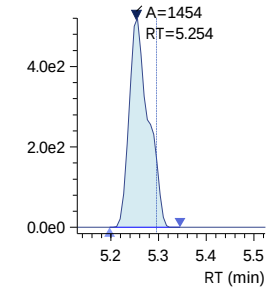
210914_017 (continued)

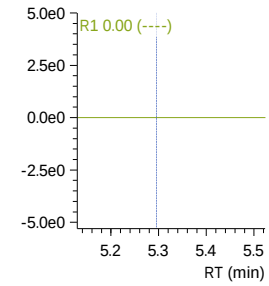
PFUnA
Conc 0.0023
R#1 0.00 (12.46)
Q 563.00>518.90 (-) 5.85e2


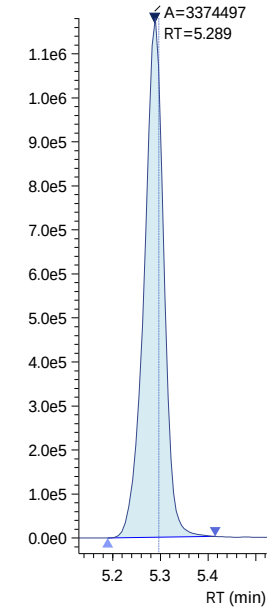
R1 563.00>219.00 (-) 0.00e0


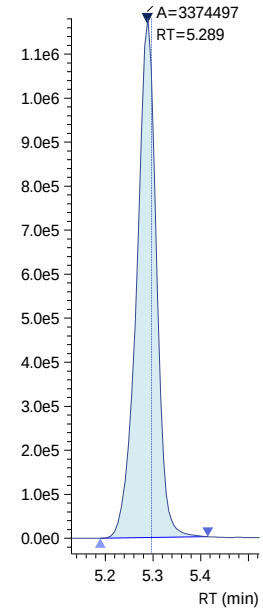
PFUnA-13C
Conc 4.5620
Q 564.80>519.95 (-) 1.06e6


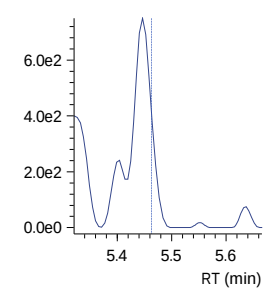
PFUnA-13C_IS
Conc 5.0000
ISTD 564.80>519.95 (-) 1.06e6


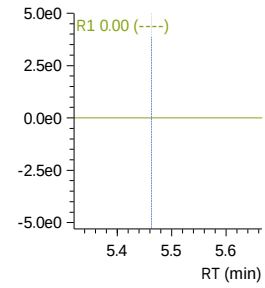
PFDoA
Conc 0.0024
R#1 0.00 (16.50)
Q 613.05>569.00 (-) 5.21e2


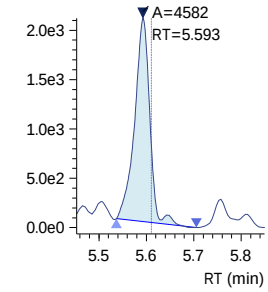
R1 613.05>169.00 (-) 0.00e0


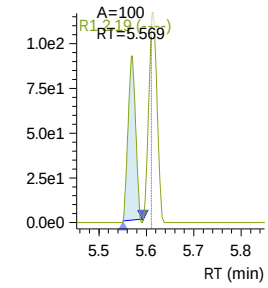
PFDoA-13C
Conc 4.4790
Q 614.80>569.95 (-) 1.18e6


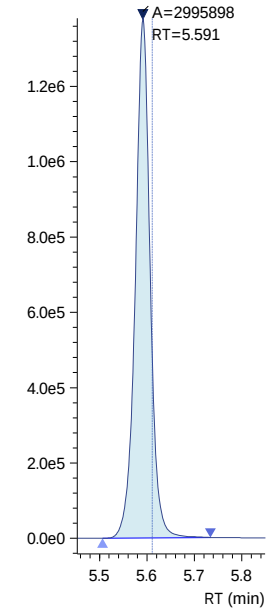
PFDoA-13C_IS
Conc 5.0000
ISTD 614.80>569.95 (-) 1.18e6


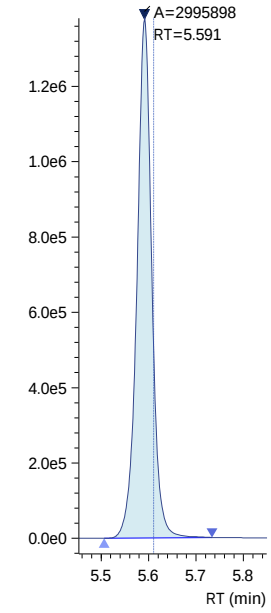
PFTrDA
Conc ----
R#1 0.00 (15.29)
Q 663.00>618.90 (-) 7.50e2


R1 662.90>169.00 (-) 0.00e0


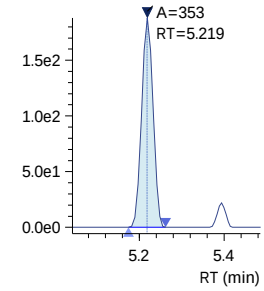
PFTeDA
Conc 0.0069
R#1 2.19 (17.47)
Q 713.00>669.00 (-) 2.12e3


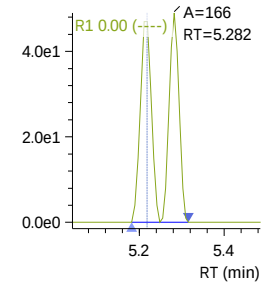
R1 713.00>169.10 (-) 1.17e2


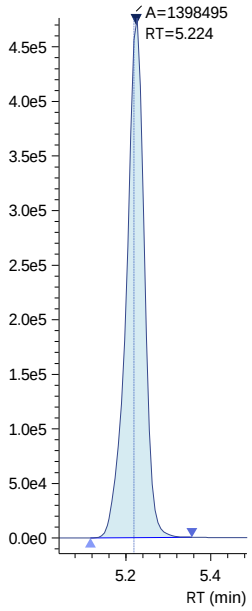
PFTeDA-13C
Conc 3.9632
Q 714.70>669.90 (-) 1.38e6


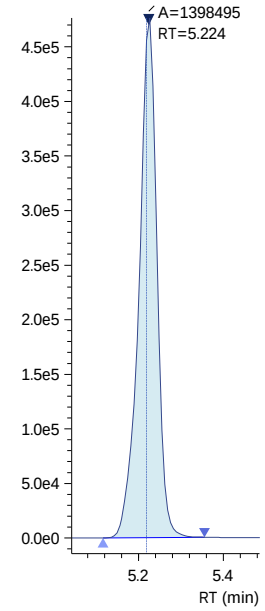
PFTeDA-13C_IS
Conc 5.0000
ISTD 714.70>669.90 (-) 1.38e6


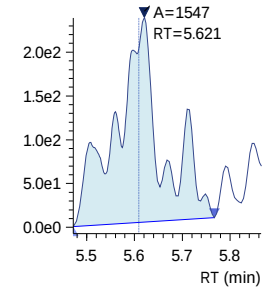
210914_017 (continued)

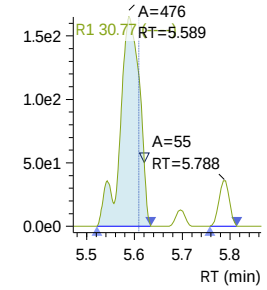
FOSA
Conc 0.0011
R#1 0.00 (5.19)
Q 498.20>78.00 (-) 1.88e2


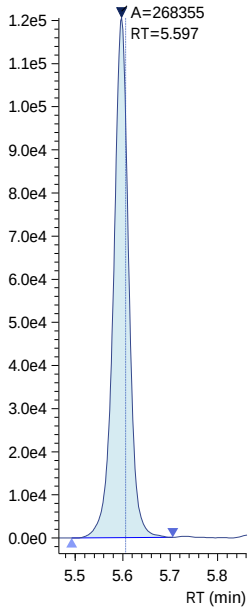
R1 498.20>64.10 (-) 4.90e1


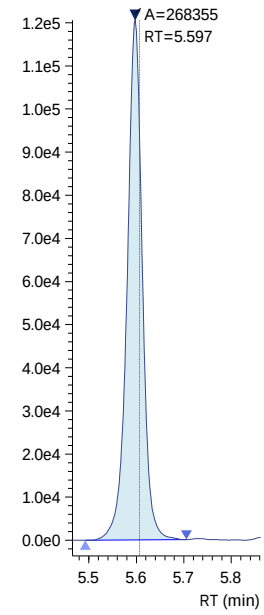
FOSA-13C
Conc 4.4589
Q 506.00>78.05 (-) 4.76e5


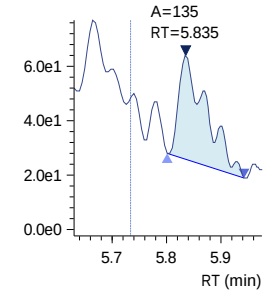
FOSA-13C_IS
Conc 5.0000
ISTD 506.00>78.05 (-) 4.76e5


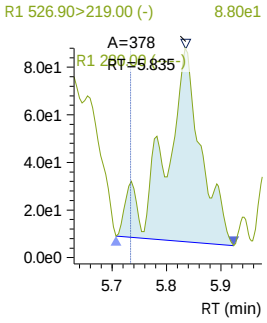
N-MeFOSA
Conc 0.0151
R#1 30.77 (69.94)
Q 512.00>169.10 (-) 2.39e2


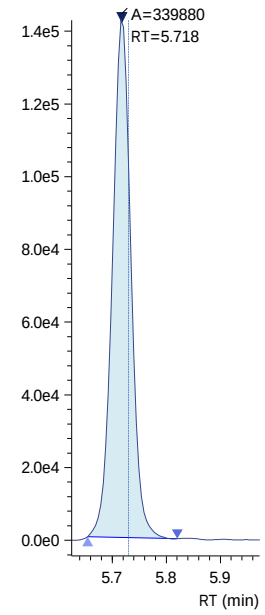
R1 512.00>219.00 (-) 1.65e2


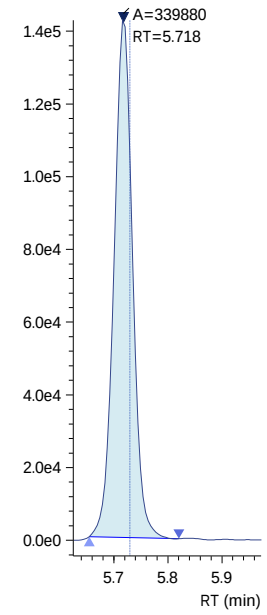
N-MeFOSA-d3
Conc 3.8132
Q 514.90>168.90 (-) 1.21e5


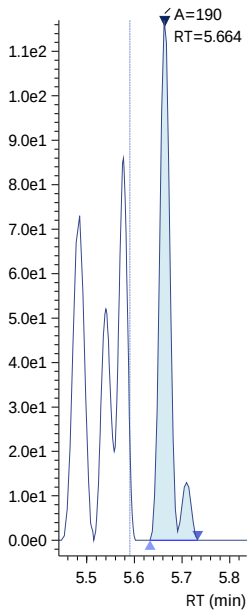
N-MeFOSA-d3_IS
Conc 5.0000
ISTD 514.90>168.90 (-) 1.21e5


N-EtFOSA
Conc 0.0066
R#1 280.00 (66.52)
Q 526.90>169.10 (-) 7.70e1


R1 526.90>219.00 (-) 8.80e1


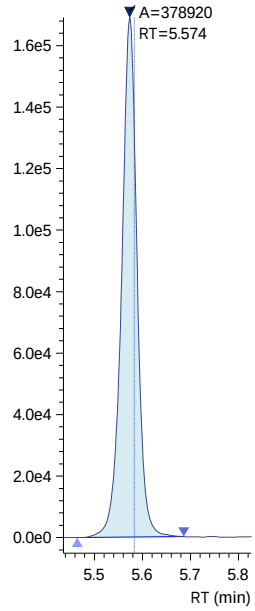
N-EtFOSA-d9
Conc 4.1456
Q 530.90>169.15 (-) 1.43e5


N-EtFOSA-d9_IS
Conc 5.0000
ISTD 530.90>169.15 (-) 1.43e5


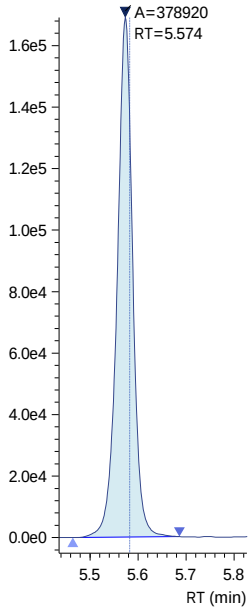
N-MeFOSE
Conc 0.0014
Q 616.00>59.00 (-) 1.17e2


210914_017 (continued)

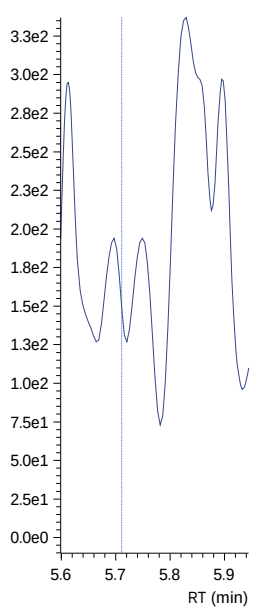
N-MeFOSE-d7
Conc 3.4967
Q 622.70>59.10 (-) 1.69e5



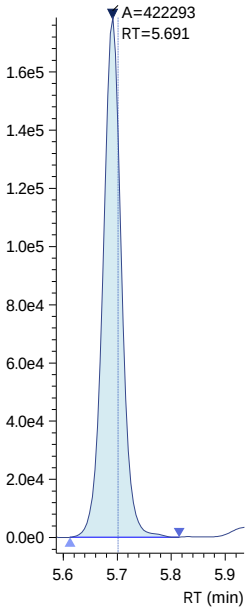
N-MeFOSE-d7_IS
Conc 5.0000
ISTD 622.70>59.10 (-) 1.69e5



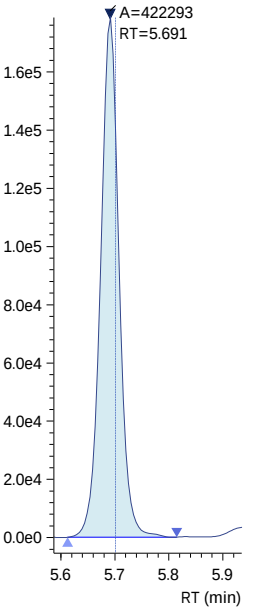
N-EtFOSE
Conc ----
Q 630.00>58.90 (-) 3.37e2



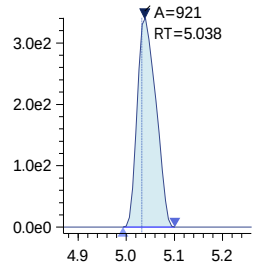
N-EtFOSE-d9
Conc 4.1151
Q 638.70>59.10 (-) 1.79e5



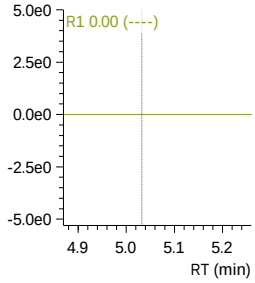
N-EtFOSE-d9_IS
Conc 5.0000
ISTD 638.70>59.10 (-) 1.79e5



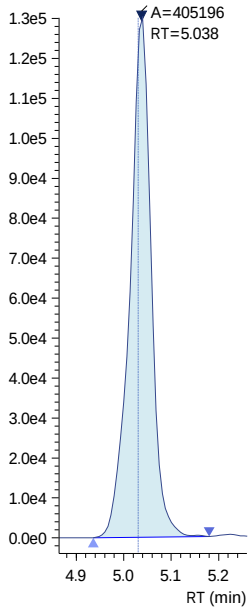
N-MeFOSAA
Conc 0.0232
R#1 0.00 (39.56)
Q 570.20>419.00 (-) 3.41e2



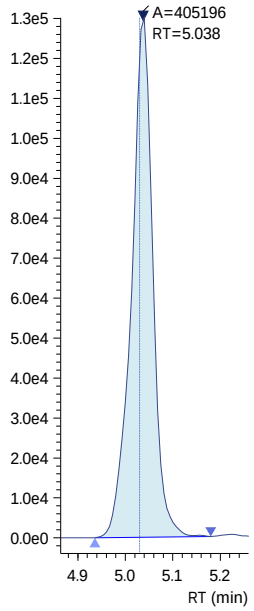
R1 570.20>512.00 (-) 0.00e0



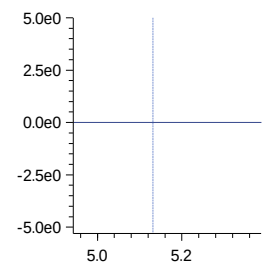
N-MeFOSAA-d3
Conc 3.2547
Q 572.80>419.05 (-) 1.30e5



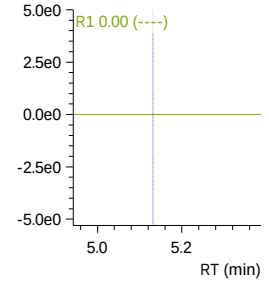
N-MeFOSAA-d3_IS
Conc 5.0000
ISTD 572.80>419.05 (-) 1.30e5



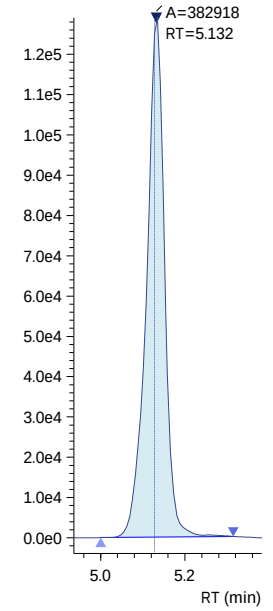
N-EtFOSAA
Conc ----
R#1 0.00 (84.54)
Q 584.20>418.95 (-) 0.00e0



R1 584.20>526.10 (-) 0.00e0

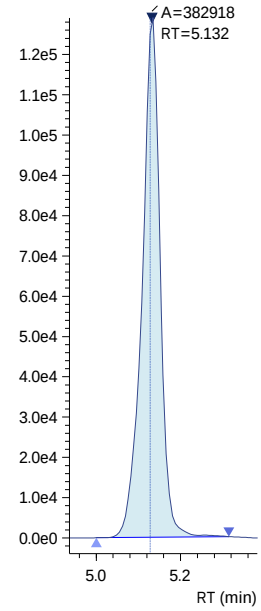


N-EtFOSAA-d5
Conc 3.6374
Q 588.80>419.00 (-) 1.29e5

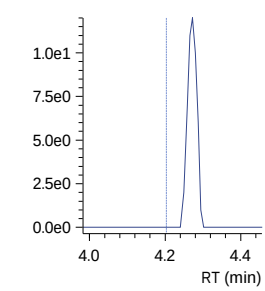


210914_017 (continued)

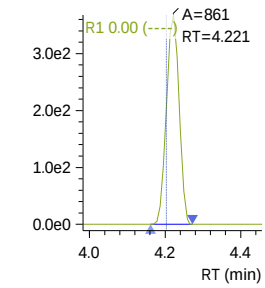
N-EtFOSAA-d5_IS
Conc 5.0000
ISTD 588.80>419.00 (-) 1.29e5



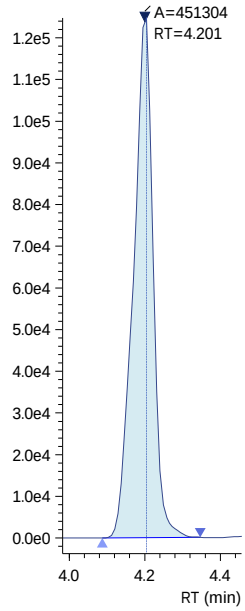
4_2-FTS_1
Conc ----
R#1 0.00 (34.12)
Q 327.00>307.05 (-) 1.20e1



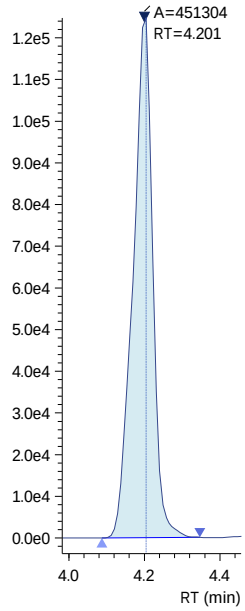
R1 327.00>81.10 (-) 3.68e2



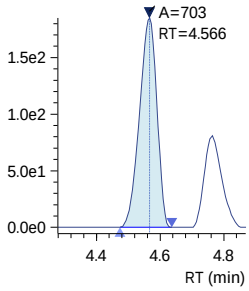
4_2-FTS-13C
Conc 3.8679
Q 328.80>309.05 (-) 1.25e5



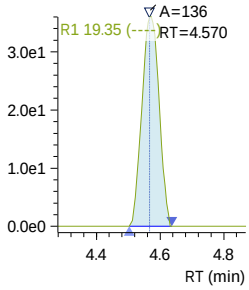
4_2-FTS-13C_IS
Conc 5.0000
ISTD 328.80>309.05 (-) 1.25e5



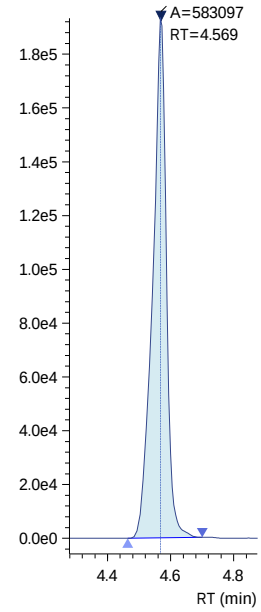
6_2-FTS_1
Conc 0.0046
R#1 19.35 (37.36)
Q 427.00>407.00 (-) 1.85e2



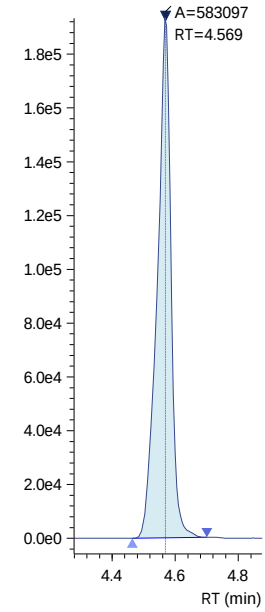
R1 427.00>80.90 (-) 3.60e1



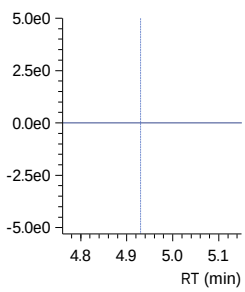
6_2-FTS-13C
Conc 5.9149
Q 428.90>409.00 (-) 1.93e5



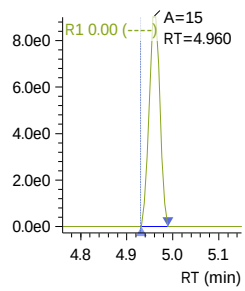
6_2-FTS-13C_IS
Conc 5.0000
ISTD 428.90>409.00 (-) 1.93e5



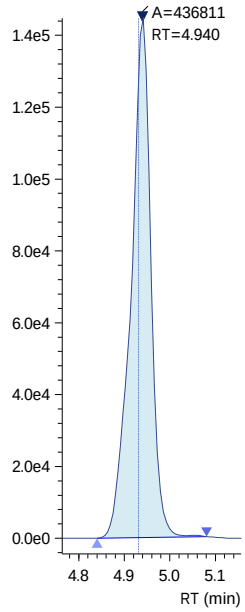
8_2-FTS_1
Conc ----
R#1 0.00 (10.63)
Q 527.10>506.90 (-) 0.00e0



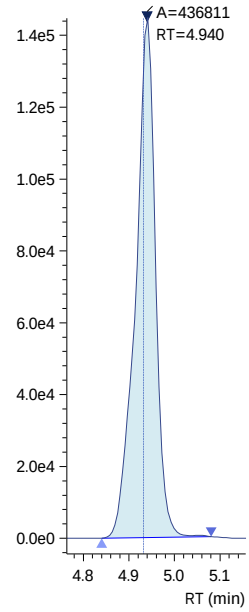
R1 527.20>487.00 (-) 9.00e0



8_2-FTS-13C
Conc 6.0953
Q 528.80>509.00 (-) 1.45e5



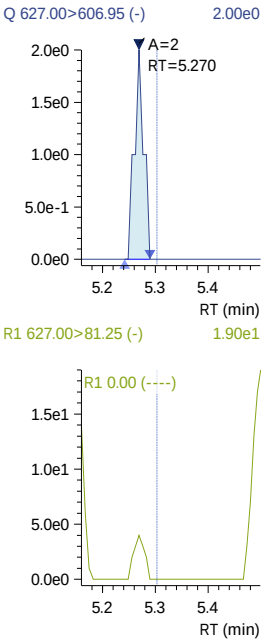
8_2-FTS-13C_IS
Conc 5.0000
ISTD 528.80>509.00 (-) 1.45e5



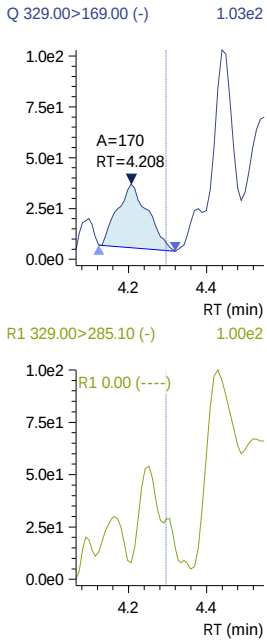
Insight Report
Before Manual Integration
Printed 9/14/2021 18:37:49

210914_017 (continued)

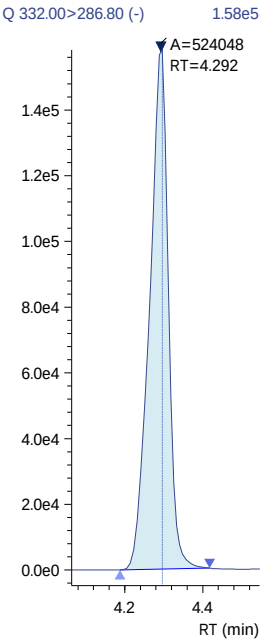
10_2-FtS_1
Conc 0.0000
R#1 0.00 (21.61)



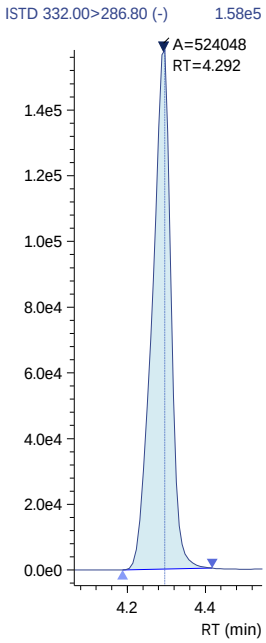
HPFO_DA
Conc 0.0016
R#1 0.00 (106.46)



HFPO_DA-13C
Conc 4.9595



HFPO_DA-13C_IS
Conc 5.0000



1st UA 08/30/21
2nd 08/31/21

Validation Report

Data File: J:\LCMS06\Data\210823_B3\210823_018
Lab ID: KQ2115525-03
RunType: LCS
Matrix: Water

Date Acquired: 8/23/21 19:16
Batch ID: 736760
Analysis Method: PFC/537M/PFAS

Validations

Validation Categories	Pass	Fail
Analytical Hold Time	X	
ICAL Analyte Recovery	X	
Second Source ICAL Verification	X	
Continuing Calibration Recovery		X
Internal Standards	X	
Surrogates		X
Std MRL Unsupported by ICAL	X	
Above Highest ICAL Level	X	

Analyte Exceptions

Exception Categories	Analyte Name	Result	Low Limit	High Limit	Corrective Action
Continuing Calibration Recovery	13C2-4:2 FTS	171	70	130	Native in control
Surrogates	13C3-PFBS	112	20	109	
	D9-EtFOSE	110	19	109	

Primary Review: _____

Printed: 8/31/21 15:34
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Secondary Review: _____

1st UA 08/30/21
2nd 08/31/21

Quantitation Report

Data File:	J:\LCMS06\Data\210823_B3\210823_018	**Instrument:**	K-LCMS-06
Acqu Date:	8/23/21 19:16	**Vial:**	4
Run Type:	LCS	**Dilution:**	1
Lab ID:	KQ2115525-03	**Raw Units:**	ng/mL

Bottle ID:		**Tier:**	IV	**Matrix:**	Water
Prod Code:	PFAS	**Collect Date:**	8/5/21	**Receive Date:**	8/6/21

Analysis Lot:	736760	**Prep Lot:**	385310	**Report Group:**	KQ2115525
Analysis	PFC/537M	**Prep Method:**	ALS SOP		
		Prep Date:	8/18/21		

Title:	Per- and Polyfluoroalkyl Substances (PFAS) by LC/MS/MS	**Calibration ID:**	KC2100446
		Report List ID:	20091

Internal Standard Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	Area Criteria
13C7-PFUnDA	5.141	+0.01	3624960	5.0000	OK

Surrogate Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	% Rec		% Rec Criteria	Rpt?
13C3-PFBS	4.037	+0.01	418343	5.5902	112	*	20 - 109	Y
18O2-PFHxS	4.425	+0.01	297285	5.8261	117		26 - 122	Y
13C4-PFOS	4.758	+0.01	349636	5.5132	110		25 - 121	Y
13C4-PFBA	3.418	0.00	1795071	6.0630	121		27 - 124	Y
13C5-PFPeA	3.982	+0.01	977067	5.0077	100		27 - 138	Y
13C2-PFHxA	4.241	+0.01	2604538	4.8482	97		28 - 132	Y
13C4-PFHpA	4.424	+0.01	2790824	5.1167	102		19 - 139	Y
13C4-PFOA	4.593	+0.01	3054309	5.0302	101		22 - 130	Y
13C5-PFNA	4.769	+0.01	2476876	5.3475	107		20 - 127	Y
13C2-PFDA	4.955	+0.01	1832949	5.3540	107		24 - 125	Y
13C2-PFUnDA	5.142	+0.01	2281330	5.0015	100		22 - 125	Y
13C2-PFDoDA	5.321	+0.01	2420361	4.8441	97		19 - 122	Y
13C2-PFTeDA	5.643	+0.01	1640134	4.8506	97		13 - 124	Y
13C8-FOSA	5.243	+0.01	1018904	4.7318	95		18 - 109	Y
D3-MeFOSA	5.633	+0.01	232523	4.6441	93		15 - 153	Y
D5-EtFOSA	5.762	+0.01	271441	4.7715	95		25 - 107	Y
D7-MeFOSE	5.609	+0.01	251256	5.0182	100		24 - 112	Y
D9-EtFOSE	5.733	+0.01	285021	5.4984	110	*	19 - 109	Y
D3-MeFOSAA	5.054	+0.01	201335	4.9304	99		9 - 123	Y
D5-EtFOSAA	5.152	+0.01	185133	4.8699	97		12 - 126	Y
13C2-4:2 FTS	4.216	+0.01	396320	4.7576	95		10 - 197	Y
13C2-6:2 FTS	4.583	+0.01	336640	4.2777	86		10 - 226	Y
13C2-8:2 FTS	4.953	+0.01	219840	5.2485	105		10 - 202	Y
13C3-HFPO-DA	4.308	+0.01	549279	5.8644	117		22 - 135	Y

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

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1st UA 08/30/21
2nd 08/31/21

Data File:	J:\LCMS06\Data\210823_B3\210823_018	**Instrument:**	K-LCMS-06
Acqu Date:	8/23/21 19:16	**Vial:**	4
Run Type:	LCS	**Dilution:**	1
Lab ID:	KQ2115525-03	**Raw Units:**	ng/mL

Target Compounds

Final Conc.Units: ng/L

Parameter Name	RT	RT Dev	Response	Solution Conc	Final Conc	Q	Rpt?
Perfluorobutane sulfonic acid (PFBS)	4.038	+0.01	125745	0.8337	26.7		Y
Perfluoropentane sulfonic acid (PFPeS)	4.258	+0.01	64819	0.7895	25.3		Y
Perfluorohexane sulfonic acid (PFHxS)	4.423	+0.01	84016	0.8291	26.5		Y
Perfluoroheptane sulfonic acid (PFHpS)	4.586	+0.01	103830	0.8322	26.6		Y
Perfluorooctane sulfonic acid (PFOS)	4.757	+0.01	59386	0.9029	28.9		Y
Perfluorononane sulfonic acid (PFNS)	4.938	+0.01	55558	0.9341	29.9		Y
Perfluorodecane sulfonic acid (PFDS)	5.122	+0.01	73357	0.8587	27.5		Y
Perfluorobutanoic acid (PFBA)	3.419	0.00	446775	1.0143	32.5		Y
Perfluoropentanoic acid (PFPeA)	3.982	+0.01	595167	0.9578	30.6		Y
Perfluorohexanoic acid (PFHxA)	4.241	+0.01	689867	0.9776	31.3		Y
Perfluoroheptanoic acid (PFHpA)	4.425	+0.01	600846	0.9901	31.7		Y
Perfluorooctanoic acid (PFOA)	4.593	+0.01	876631	0.9338	29.9		Y
Perfluorononanoic acid (PFNA)	4.770	+0.01	519390	0.8495	27.2		Y
Perfluorodecanoic acid (PFDA)	4.955	+0.01	543095	0.9906	31.7		Y
Perfluoroundecanoic acid (PFUnDA)	5.141	+0.01	506385	0.9292	29.7		Y
Perfluorododecanoic acid (PFDoDA)	5.321	+0.01	484786	1.0294	32.9		Y
Perfluorotridecanoic acid (PFTrDA)	5.490	+0.01	499683	1.0261	32.8		Y
Perfluorotetradecanoic acid (PFTeDA)	5.643	+0.01	349724	0.9484	30.3		Y
Perfluorooctane sulfonamide (FOSA)	5.243	+0.01	242189	0.9352	29.9		Y
N-Methyl perfluorooctane sulfonamide (MeFOSA)	5.636	+0.01	81593	0.9374	30.0		Y
N-Ethyl perfluorooctane sulfonamide (EtFOSA)	5.768	+0.01	14778	0.8687	27.8		Y
N-Methyl perfluorooctane sulfonamidoethanol	5.617	+0.01	120621	1.0962	35.1		Y
N-Ethyl perfluorooctane sulfonamidoethanol	5.743	+0.01	123806	0.9492	30.4		Y
N-Methyl perfluorooctane sulfonamidoacetic acid	5.058	+0.01	40494	1.0722	34.3		Y
N-Ethyl perfluorooctane sulfonamidoacetic acid	5.158	+0.01	30856	0.9645	30.9		Y
4:2 Fluorotelomer sulfonic acid (4:2 FTS)	4.216	+0.01	72299	0.9106	29.1		Y
6:2 Fluorotelomer sulfonic acid (6:2 FTS)	4.583	+0.01	100724	1.0756	34.4		Y
8:2 Fluorotelomer sulfonic acid (8:2 FTS)	4.953	+0.01	50124	0.9803	31.4		Y
10:2 Fluorotelomer sulfonic acid (10:2 FTS)	5.327	+0.01	34291	0.9694	31.0		Y
Hexafluoropropylene oxide dimer acid (HFPO-DA)	4.309	+0.01	99404	0.9949	31.8		Y

Prep Amount:	250 mL	**Dilution:**	1
Prep Final Amount:	8.00 mL	**Basis Factor:**	100.00

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

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Insight Report
Ion Ratio Confirmation
Printed 8/27/2021 17:48:55

210823_018

Sample ID: KQ2115525-03
Date Acquired: 8/23/2021 7:16:04 PM
Acquired by: System Administrator
Data File: 210823_018
Vial: 4 | Inj. Volume: 15.0000uL | Tray: 3

Name	m/z	Ref 1 m/z	Area	Ref 1 Measured	Ref 1 Actual Ratio	Ref 1 Set Ratio	Comment 1	Flag ID
13C7-PFUnDA_IS	570.00>525.00	----	3624960	----	----	----		
PFBS_1	299.00>80.00	298.80>99.00	125745	59191	47.07	47.76	23.88-71.64	
PFBS-13C	301.80>80.00	----	418343	----	----	----	0-0	
PFBS-13C_IS	301.80>80.00	----	418343	----	----	----	0-0	
PFPeS	349.00>99.00	349.00>79.95	64819	99778	153.93	136.08	68.04-204.13	
PFHxS_1	399.00>80.00	399.00>99.00	84016	58143	69.21	71.26	35.63-106.89	
PFHxS-18O	402.70>84.05	----	297285	----	----	----	0-0	
PFHxS-18O_IS	402.70>84.05	----	297285	----	----	----	0-0	
PFHpS_1	449.00>80.15	449.00>99.20	103830	56939	54.84	53.84	26.92-80.76	
PFOS_1	499.00>80.00	499.00>99.00	59386	54896	92.44	86.72	43.36-130.08	
PFOS-13C	502.80>80.05	----	349636	----	----	----	0-0	
PFOS-13C_IS	502.80>80.05	----	349636	----	----	----	0-0	
PFNS	549.00>99.00	549.00>79.95	55558	70586	127.05	129.18	64.59-193.78	
PFDS_1	599.00>79.90	599.00>99.10	73357	61373	83.66	90.77	45.38-136.15	
PFBA	213.00>169.10	----	446775	----	----	----		
PFBA-13C	216.90>172.15	----	1795071	----	----	----		
PFBA-13C_IS	216.90>172.15	----	1795071	----	----	----		
PFPeA	263.05>219.10	----	595167	----	----	----		
PFPeA-13C	267.90>223.00	----	977067	----	----	----	0-0	
PFPeA-13C_IS	267.90>223.00	----	977067	----	----	----	0-0	
PFHxA	313.00>269.00	313.00>119.10	689867	28023	4.06	4.17	2.08-6.25	
PFHxA-13C	314.90>270.10	----	2604538	----	----	----	0-0	
PFHxA-13C_IS	314.90>270.10	----	2604538	----	----	----	0-0	
PFHpA	362.90>319.00	362.90>169.00	600846	135843	22.61	26.04	13.02-39.07	
PFHpA-13C	366.90>322.10	----	2790824	----	----	----	0-0	
PFHpA-13C_IS	366.90>322.10	----	2790824	----	----	----	0-0	
PFOA	413.00>369.00	413.00>169.10	876631	270294	30.83	30.35	15.18-45.53	
PFOA-13C	416.80>372.05	----	3054309	----	----	----	0-0	
PFOA-13C_IS	416.80>372.05	----	3054309	----	----	----	0-0	
PFNA	463.00>418.90	463.00>219.00	519390	115409	22.22	22.35	11.18-33.53	
PFNA-13C	467.80>423.00	----	2476876	----	----	----	0-0	
PFNA-13C_IS	467.80>423.00	----	2476876	----	----	----	0-0	
PFDA	513.00>468.80	513.00>219.10	543095	101132	18.62	18.73	9.36-28.09	
PFDA-13C	514.80>469.95	----	1832949	----	----	----	0-0	
PFDA-13C_IS	514.80>469.95	----	1832949	----	----	----	0-0	
PFUnA	563.00>518.90	563.00>219.00	506385	63357	12.51	11.60	5.8-17.4	
PFUnA-13C	564.80>519.95	----	2281330	----	----	----	0-0	
PFUnA-13C_IS	564.80>519.95	----	2281330	----	----	----	0-0	
PFDoA	613.05>569.00	613.05>169.00	484786	71105	14.67	15.11	7.55-22.66	
PFDoA-13C	614.80>569.95	----	2420361	----	----	----	0-0	
PFDoA-13C_IS	614.80>569.95	----	2420361	----	----	----	0-0	
PFTrDA	663.00>618.90	662.90>169.00	499683	62447	12.50	14.19	7.09-21.28	
PFTeDA	713.00>669.00	713.00>169.10	349724	55236	15.79	14.98	7.49-22.46	
PFTeDA-13C	714.70>669.90	----	1640134	----	----	----	0-0	
PFTeDA-13C_IS	714.70>669.90	----	1640134	----	----	----	0-0	
FOSA	498.20>78.00	498.20>64.10	242189	12887	5.32	4.89	2.44-7.33	
FOSA-13C	506.00>78.05	----	1018904	----	----	----	0-0	
FOSA-13C_IS	506.00>78.05	----	1018904	----	----	----	0-0	
N-MeFOSA	512.00>169.10	512.00>219.00	81593	54666	67.00	62.72	31.36-94.08	
N-MeFOSA-d3	514.90>168.90	----	232523	----	----	----	0-0	

J:\LCMS06\Data\210823_B3\210823_B3.DAMLP .

Comment 1 field specifies acceptance range for Ref 1 ratio.
IRr - Ion ratio outside criteria. Exceedances for results above the MDL to be "K" flagged in the analytical report.

Insight Report
Ion Ratio Confirmation
Printed 8/27/2021 17:48:55

210823_018 (continued)

(Table continued from previous page)

Name	m/z	Ref 1 m/z	Area	Ref 1 Measured	Ref 1 Actual Ratio	Ref 1 Set Ratio	Comment 1	Flag ID
N-MeFOSA-d3_IS	514.90>168.90	----	232523	----	----	----	0-0	
N-EtFOSA	526.90>169.10	526.90>219.00	14778	10244	69.32	63.35	31.68-95.03	
N-EtFOSA-d9	530.90>169.15	----	271441	----	----	----	0-0	
N-EtFOSA-d9_IS	530.90>169.15	----	271441	----	----	----	0-0	
N-MeFOSE	616.00>59.00	----	120621	----	----	----		
N-MeFOSE-d7	622.70>59.10	----	251256	----	----	----		
N-MeFOSE-d7_IS	622.70>59.10	----	251256	----	----	----		
N-EtFOSE	630.00>58.90	----	123806	----	----	----		
N-EtFOSE-d9	638.70>59.10	----	285021	----	----	----	0-0	
N-EtFOSE-d9_IS	638.70>59.10	----	285021	----	----	----	0-0	
N-MeFOSAA	570.20>419.00	570.20>512.00	40494	16853	41.62	35.26	17.63-52.88	
N-MeFOSAA-d3	572.80>419.05	----	201335	----	----	----	0-0	
N-MeFOSAA-d3_IS	572.80>419.05	----	201335	----	----	----	0-0	
N-EtFOSAA	584.20>418.95	584.20>526.10	30856	22688	73.53	77.25	38.62-115.87	
N-EtFOSAA-d5	588.80>419.00	----	185133	----	----	----	0-0	
N-EtFOSAA-d5_IS	588.80>419.00	----	185133	----	----	----	0-0	
4_2-FTS_1	327.00>307.05	327.00>81.10	72299	19499	26.97	39.85	19.92-59.77	
4_2-FTS-13C	328.80>309.05	----	396320	----	----	----	0-0	
4_2-FTS-13C_IS	328.80>309.05	----	396320	----	----	----	0-0	
6_2-FTS_1	427.00>407.00	427.00>80.90	100724	28572	28.37	29.95	14.97-44.92	
6_2-FTS-13C	428.90>409.00	----	336640	----	----	----	0-0	
6_2-FTS-13C_IS	428.90>409.00	----	336640	----	----	----	0-0	
8_2-FTS_1	527.10>506.90	527.20>487.00	50124	4387	8.75	9.42	4.71-14.13	
8_2-FTS-13C	528.80>509.00	----	219840	----	----	----	0-0	
8_2-FTS-13C_IS	528.80>509.00	----	219840	----	----	----	0-0	
10_2-FtS_1	627.00>606.95	627.00>81.25	34291	15771	45.99	49.86	24.93-74.78	
HPFO_DA	329.00>169.00	329.00>285.10	99404	100539	101.14	101.52	50.76-152.28	
HFPO_DA-13C	332.00>286.80	----	549279	----	----	----		
HFPO_DA-13C_IS	332.00>286.80	----	549279	----	----	----		

Comment 1 field specifies acceptance range for Ref 1 ratio.
IRr - Ion ratio outside criteria. Exceedances for results above the MDL to be "K" flagged in the analytical report.

Insight Report
Quantitation/Integration
Printed 8/30/2021 19:23:48

210823_018

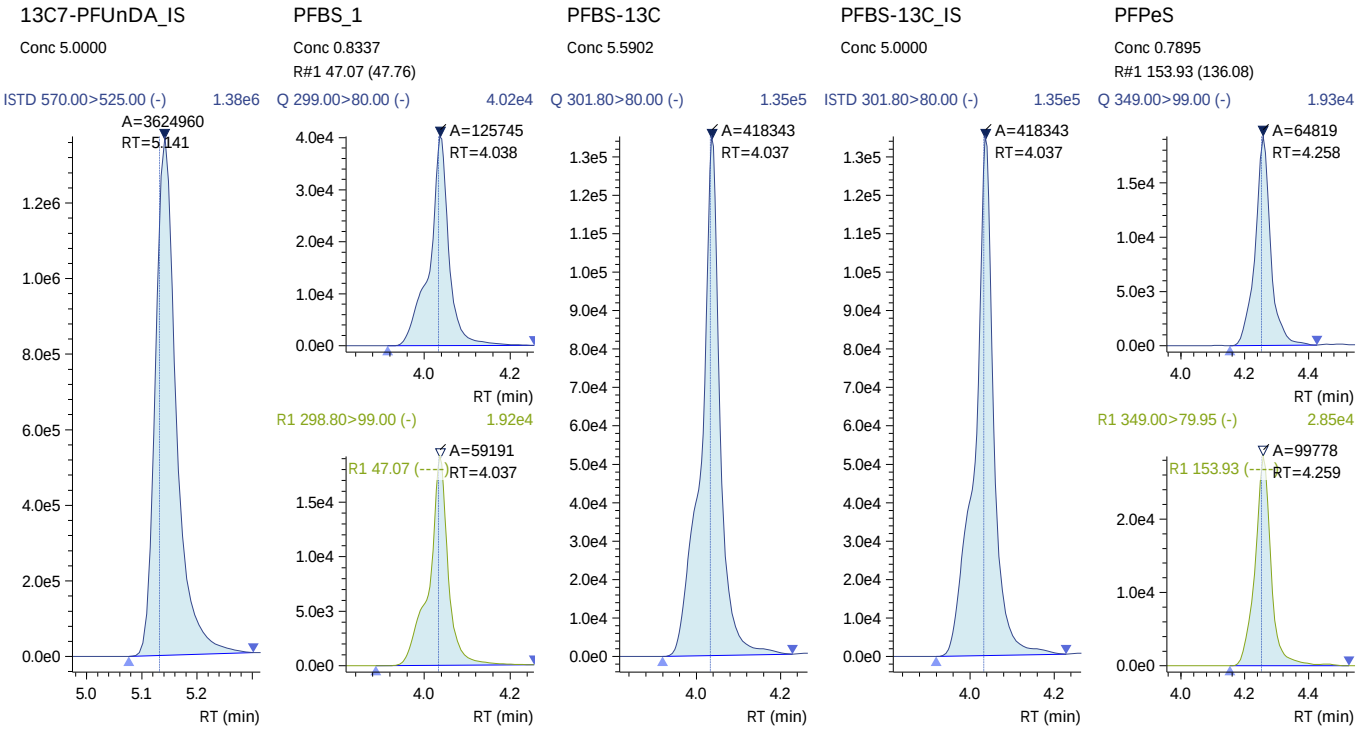
Sample ID: KQ2115525-03
Date Acquired: 8/23/2021 7:16:04 PM
Acquired by: System Administrator
Data File: 210823_018
Vial: 4 | Inj. Volume: 15.0000uL | Tray: 3

Name	Mode ID	Found RT	Area	ISTD Area	ISTD Name	Std. Conc.	Conc.	Unit
13C7-PFUnDA_IS	Auto	5.141	3624960	3624960	----	----	5.0000	ng/mL
PFBS_1	Auto	4.038	125745	418343	PFBS-13C_IS	----	0.8337	ng/mL
PFBS-13C	Auto	4.037	418343	3624960	13C7-PFUnDA_IS	----	5.5902	ng/mL
PFBS-13C_IS	Auto	4.037	418343	418343	----	----	5.0000	ng/mL
PFPeS	Auto	4.258	64819	418343	PFBS-13C_IS	----	0.7895	ng/mL
PFHxS_1	Auto	4.423	84016	297285	PFHxS-18O_IS	----	0.8291	ng/mL
PFHxS-18O	Auto	4.425	297285	3624960	13C7-PFUnDA_IS	----	5.8261	ng/mL
PFHxS-18O_IS	Auto	4.425	297285	297285	----	----	5.0000	ng/mL
PFHpS_1	Auto	4.586	103830	297285	PFHxS-18O_IS	----	0.8322	ng/mL
PFOS_1	Auto	4.757	59386	349636	PFOS-13C_IS	----	0.9029	ng/mL
PFOS-13C	Auto	4.758	349636	3624960	13C7-PFUnDA_IS	----	5.5132	ng/mL
PFOS-13C_IS	Auto	4.758	349636	349636	----	----	5.0000	ng/mL
PFNS	Auto	4.938	55558	349636	PFOS-13C_IS	----	0.9341	ng/mL
PFDS_1	Auto	5.122	73357	349636	PFOS-13C_IS	----	0.8587	ng/mL
PFBA	Auto	3.419	446775	1795071	PFBA-13C_IS	----	1.0143	ng/mL
PFBA-13C	Auto	3.418	1795071	3624960	13C7-PFUnDA_IS	----	6.0630	ng/mL
PFBA-13C_IS	Auto	3.418	1795071	1795071	----	----	5.0000	ng/mL
PFPeA	Auto	3.982	595167	977067	PFPeA-13C_IS	----	0.9578	ng/mL
PFPeA-13C	Auto	3.982	977067	3624960	13C7-PFUnDA_IS	----	5.0077	ng/mL
PFPeA-13C_IS	Auto	3.982	977067	977067	----	----	5.0000	ng/mL
PFHxA	Auto	4.241	689867	2604538	PFHxA-13C_IS	----	0.9776	ng/mL
PFHxA-13C	Auto	4.241	2604538	3624960	13C7-PFUnDA_IS	----	4.8482	ng/mL
PFHxA-13C_IS	Auto	4.241	2604538	2604538	----	----	5.0000	ng/mL
PFHpA	Auto	4.425	600846	2790824	PFHpA-13C_IS	----	0.9901	ng/mL
PFHpA-13C	Auto	4.424	2790824	3624960	13C7-PFUnDA_IS	----	5.1167	ng/mL
PFHpA-13C_IS	Auto	4.424	2790824	2790824	----	----	5.0000	ng/mL
PFOA	Auto	4.593	876631	3054309	PFOA-13C_IS	----	0.9338	ng/mL
PFOA-13C	Auto	4.593	3054309	3624960	13C7-PFUnDA_IS	----	5.0302	ng/mL
PFOA-13C_IS	Auto	4.593	3054309	3054309	----	----	5.0000	ng/mL
PFNA	Auto	4.770	519390	2476876	PFNA-13C_IS	----	0.8495	ng/mL
PFNA-13C	Auto	4.769	2476876	3624960	13C7-PFUnDA_IS	----	5.3475	ng/mL
PFNA-13C_IS	Auto	4.769	2476876	2476876	----	----	5.0000	ng/mL
PFDA	Auto	4.955	543095	1832949	PFDA-13C_IS	----	0.9906	ng/mL
PFDA-13C	Auto	4.955	1832949	3624960	13C7-PFUnDA_IS	----	5.3540	ng/mL
PFDA-13C_IS	Auto	4.955	1832949	1832949	----	----	5.0000	ng/mL
PFUnA	Auto	5.141	506385	2281330	PFUnA-13C_IS	----	0.9292	ng/mL
PFUnA-13C	Auto	5.142	2281330	3624960	13C7-PFUnDA_IS	----	5.0015	ng/mL
PFUnA-13C_IS	Auto	5.142	2281330	2281330	----	----	5.0000	ng/mL
PFDoA	Auto	5.321	484786	2420361	PFDoA-13C_IS	----	1.0294	ng/mL
PFDoA-13C	Auto	5.321	2420361	3624960	13C7-PFUnDA_IS	----	4.8441	ng/mL
PFDoA-13C_IS	Auto	5.321	2420361	2420361	----	----	5.0000	ng/mL
PFTrDA	Auto	5.490	499683	1640134	PFTeDA-13C_IS	----	1.0261	ng/mL
PFTeDA	Auto	5.643	349724	1640134	PFTeDA-13C_IS	----	0.9484	ng/mL
PFTeDA-13C	Auto	5.643	1640134	3624960	13C7-PFUnDA_IS	----	4.8506	ng/mL
PFTeDA-13C_IS	Auto	5.643	1640134	1640134	----	----	5.0000	ng/mL
FOSA	Auto	5.243	242189	1018904	FOSA-13C_IS	----	0.9352	ng/mL
FOSA-13C	Auto	5.243	1018904	3624960	13C7-PFUnDA_IS	----	4.7318	ng/mL
FOSA-13C_IS	Auto	5.243	1018904	1018904	----	----	5.0000	ng/mL
N-MeFOSA	M	5.636	81593	232523	N-MeFOSA-d3_IS	----	0.9374	ng/mL
N-MeFOSA-d3	Auto	5.633	232523	3624960	13C7-PFUnDA_IS	----	4.6441	ng/mL
N-MeFOSA-d3_IS	Auto	5.633	232523	232523	----	----	5.0000	ng/mL
N-EtFOSA	M	5.768	14778	271441	N-EtFOSA-d9_IS	----	0.8687	ng/mL
N-EtFOSA-d9	Auto	5.762	271441	3624960	13C7-PFUnDA_IS	----	4.7715	ng/mL
N-EtFOSA-d9_IS	Auto	5.762	271441	271441	----	----	5.0000	ng/mL

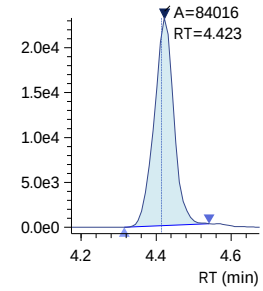
210823_018 (continued)

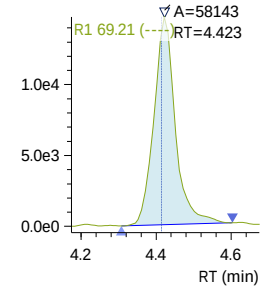
(Table continued from previous page)

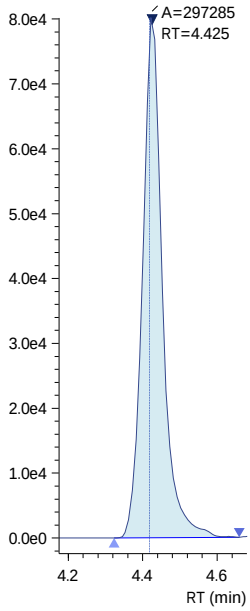
Name	Mode ID	Found RT	Area	ISTD Area	ISTD Name	Std. Conc.	Conc.	Unit
N-MeFOSE	Auto	5.617	120621	251256	N-MeFOSE-d7_IS	----	1.0962	ng/mL
N-MeFOSE-d7	Auto	5.609	251256	3624960	13C7-PFUnDA_IS	----	5.0182	ng/mL
N-MeFOSE-d7_IS	Auto	5.609	251256	251256	----	----	5.0000	ng/mL
N-EtFOSE	Auto	5.743	123806	285021	N-EtFOSE-d9_IS	----	0.9492	ng/mL
N-EtFOSE-d9	Auto	5.733	285021	3624960	13C7-PFUnDA_IS	----	5.4984	ng/mL
N-EtFOSE-d9_IS	Auto	5.733	285021	285021	----	----	5.0000	ng/mL
N-MeFOSAA	Auto	5.058	40494	201335	N-MeFOSAA-d3_IS	----	1.0722	ng/mL
N-MeFOSAA-d3	Auto	5.054	201335	3624960	13C7-PFUnDA_IS	----	4.9304	ng/mL
N-MeFOSAA-d3_IS	Auto	5.054	201335	201335	----	----	5.0000	ng/mL
N-EtFOSAA	M	5.158	30856	185133	N-EtFOSAA-d5_IS	----	0.9645	ng/mL
N-EtFOSAA-d5	Auto	5.152	185133	3624960	13C7-PFUnDA_IS	----	4.8699	ng/mL
N-EtFOSAA-d5_IS	Auto	5.152	185133	185133	----	----	5.0000	ng/mL
4_2-FTS_1	Auto	4.216	72299	396320	4_2-FTS-13C_IS	----	0.9106	ng/mL
4_2-FTS-13C	Auto	4.216	396320	3624960	13C7-PFUnDA_IS	----	4.7576	ng/mL
4_2-FTS-13C_IS	Auto	4.216	396320	396320	----	----	5.0000	ng/mL
6_2-FTS_1	Auto	4.583	100724	336640	6_2-FTS-13C_IS	----	1.0756	ng/mL
6_2-FTS-13C	Auto	4.583	336640	3624960	13C7-PFUnDA_IS	----	4.2777	ng/mL
6_2-FTS-13C_IS	Auto	4.583	336640	336640	----	----	5.0000	ng/mL
8_2-FTS_1	Auto	4.953	50124	219840	8_2-FTS-13C_IS	----	0.9803	ng/mL
8_2-FTS-13C	Auto	4.953	219840	3624960	13C7-PFUnDA_IS	----	5.2485	ng/mL
8_2-FTS-13C_IS	Auto	4.953	219840	219840	----	----	5.0000	ng/mL
10_2-FtS_1	Auto	5.327	34291	219840	8_2-FTS-13C_IS	----	0.9694	ng/mL
HPFO_DA	Auto	4.309	99404	549279	HFPO_DA-13C_IS	----	0.9949	ng/mL
HFPO_DA-13C	Auto	4.308	549279	3624960	13C7-PFUnDA_IS	----	5.8644	ng/mL
HFPO_DA-13C_IS	Auto	4.308	549279	549279	----	----	5.0000	ng/mL

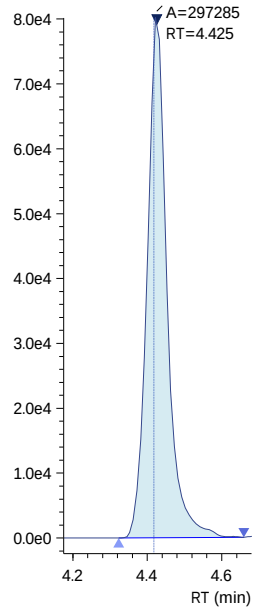


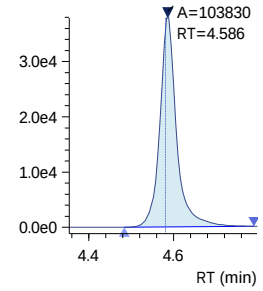
210823_018 (continued)

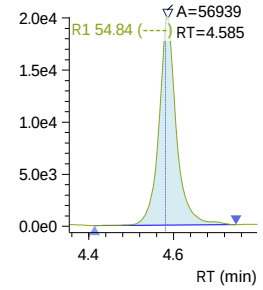
PFHxS_1
Conc 0.8291
R#1 69.21 (71.26)
Q 399.00>80.00 (-) 2.33e4


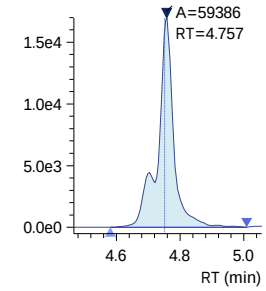
R1 399.00>99.00 (-) 1.48e4


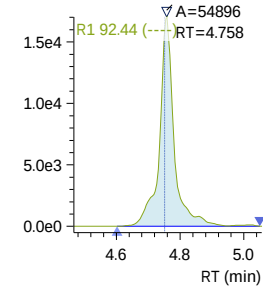
PFHxS-18O
Conc 5.8261
Q 402.70>84.05 (-) 8.02e4


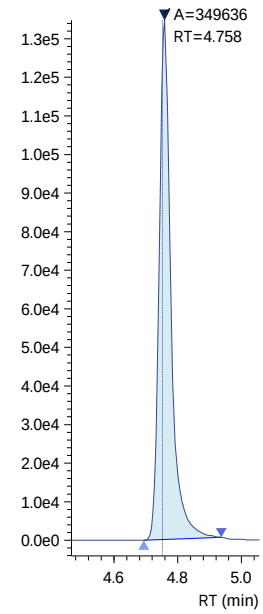
PFHxS-18O_IS
Conc 5.0000
ISTD 402.70>84.05 (-) 8.02e4


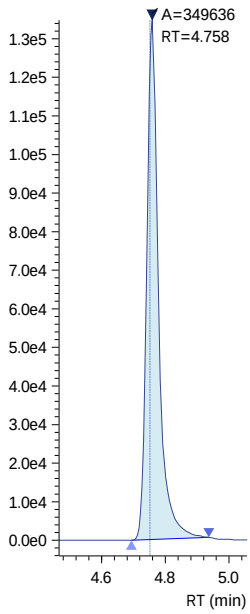
PFHpS_1
Conc 0.8322
R#1 54.84 (53.84)
Q 449.00>80.15 (-) 3.79e4


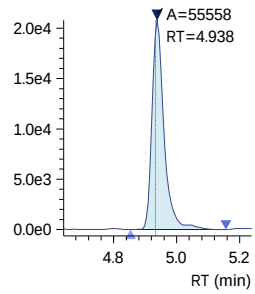
R1 449.00>99.20 (-) 2.01e4


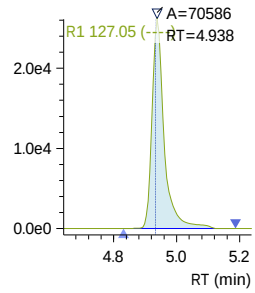
PFOS_1
Conc 0.9029
R#1 92.44 (86.72)
Q 499.00>80.00 (-) 1.70e4


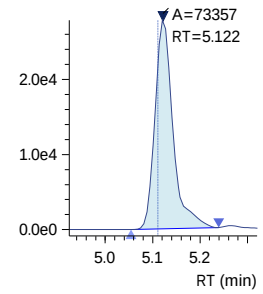
R1 499.00>99.00 (-) 1.70e4


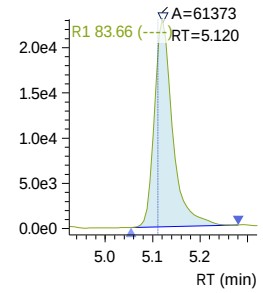
PFOS-13C
Conc 5.5132
Q 502.80>80.05 (-) 1.35e5


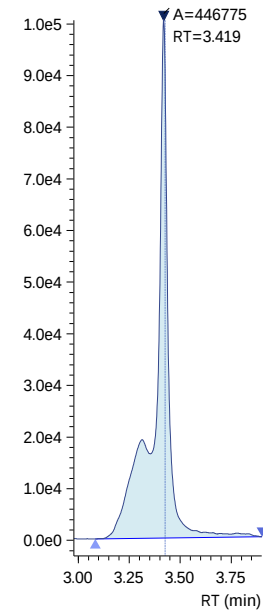
PFOS-13C_IS
Conc 5.0000
ISTD 502.80>80.05 (-) 1.35e5


PFNS
Conc 0.9341
R#1 127.05 (129.18)
Q 549.00>99.00 (-) 2.08e4


R1 549.00>79.95 (-) 2.61e4


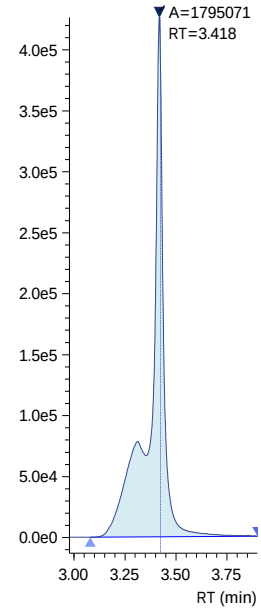
PFDS_1
Conc 0.8587
R#1 83.66 (90.77)
Q 599.00>79.90 (-) 2.79e4


R1 599.00>99.10 (-) 2.31e4


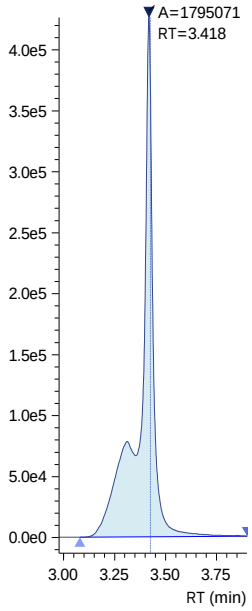
PFBA
Conc 1.0143
Q 213.00>169.10 (-) 1.01e5


210823_018 (continued)

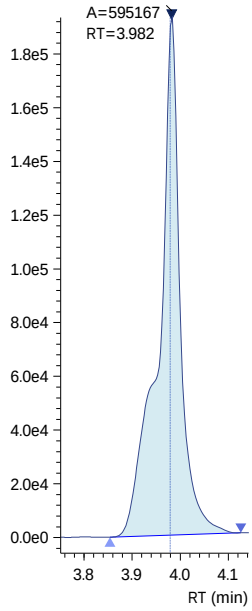
PFBA-13C
Conc 6.0630
Q 216.90>172.15 (-) 4.27e5



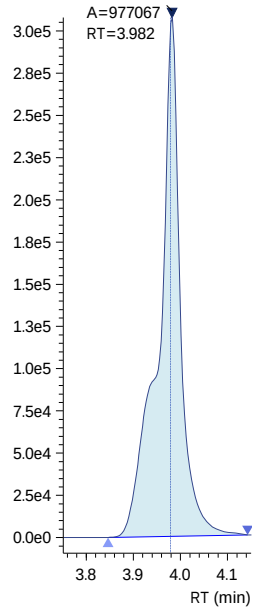
PFBA-13C_IS
Conc 5.0000
ISTD 216.90>172.15 (-) 4.27e5



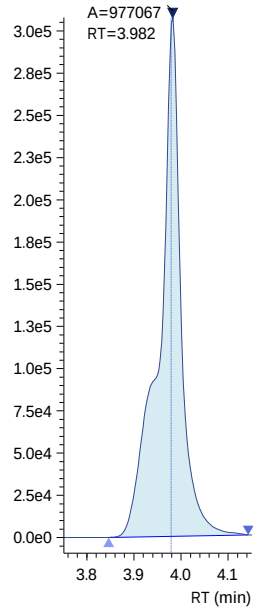
PFPeA
Conc 0.9578
Q 263.05>219.10 (-) 1.94e5



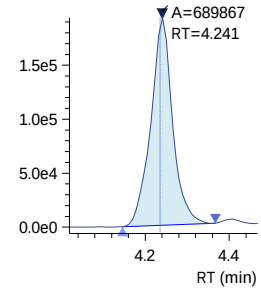
PFPeA-13C
Conc 5.0077
Q 267.90>223.00 (-) 3.08e5



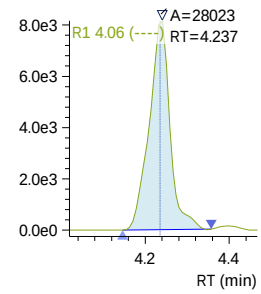
PFPeA-13C_IS
Conc 5.0000
ISTD 267.90>223.00 (-) 3.08e5



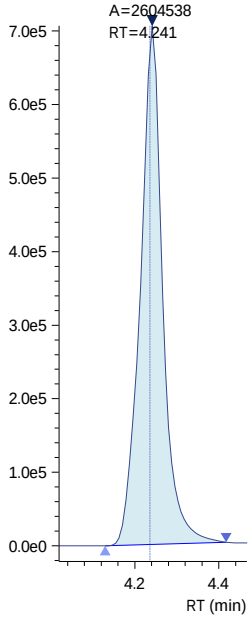
PFHxA
Conc 0.9776
R#1 4.06 (4.17)
Q 313.00>269.00 (-) 1.94e5



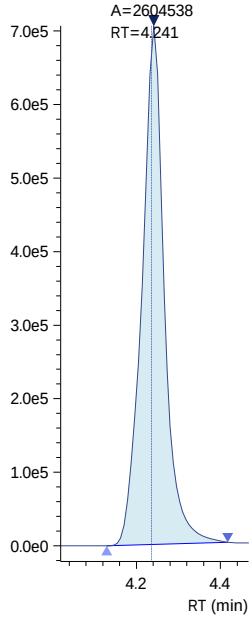
R1 313.00>119.10 (-) 8.17e3



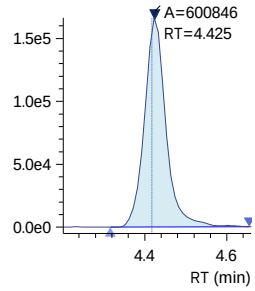
PFHxA-13C
Conc 4.8482
Q 314.90>270.10 (-) 7.07e5



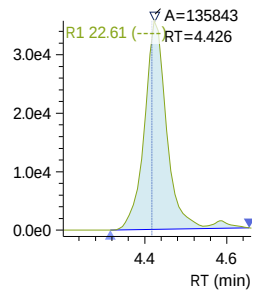
PFHxA-13C_IS
Conc 5.0000
ISTD 314.90>270.10 (-) 7.07e5



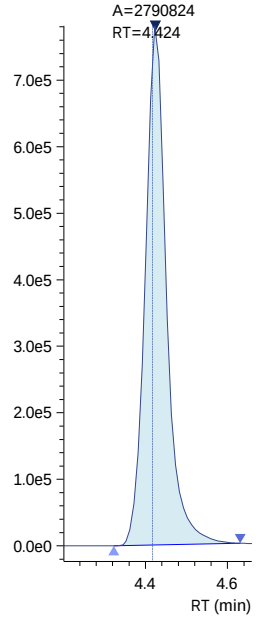
PFHpA
Conc 0.9901
R#1 22.61 (26.04)
Q 362.90>319.00 (-) 1.66e5



R1 362.90>169.00 (-) 3.58e4

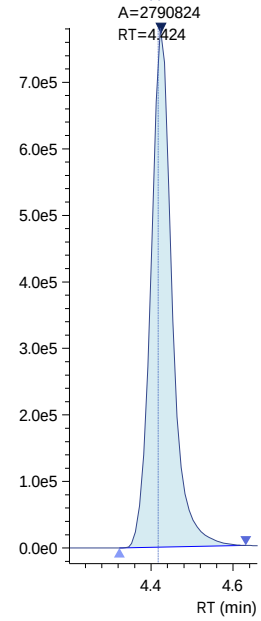


PFHpA-13C
Conc 5.1167
Q 366.90>322.10 (-) 7.82e5

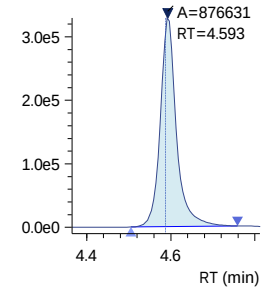


210823_018 (continued)

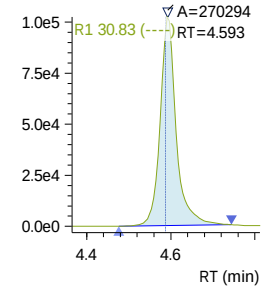
PFHpA-13C_IS
Conc 5.0000
ISTD 366.90>322.10 (-) 7.82e5



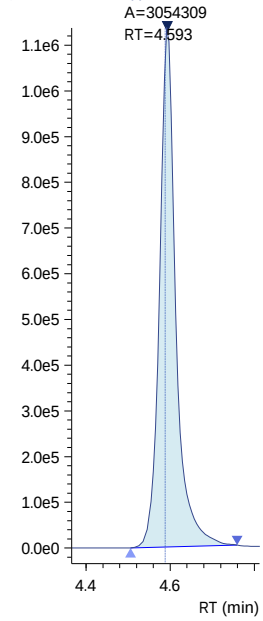
PFOA
Conc 0.9338
R#1 30.83 (30.35)
Q 413.00>369.00 (-) 3.30e5



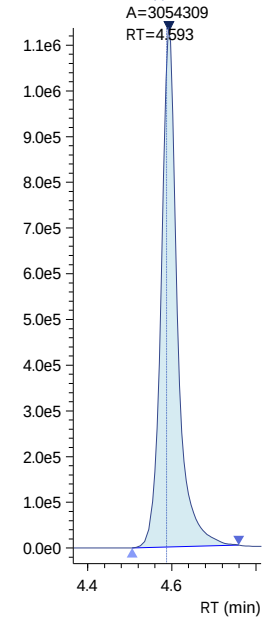
R1 413.00>169.10 (-) 1.03e5



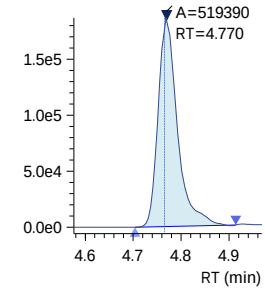
PFOA-13C
Conc 5.0302
Q 416.80>372.05 (-) 1.14e6



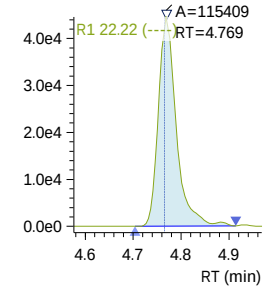
PFOA-13C_IS
Conc 5.0000
ISTD 416.80>372.05 (-) 1.14e6



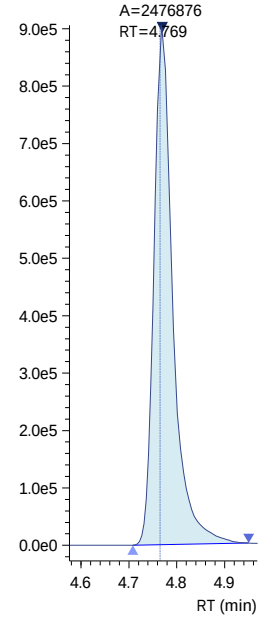
PFNA
Conc 0.8495
R#1 22.22 (22.35)
Q 463.00>418.90 (-) 1.87e5



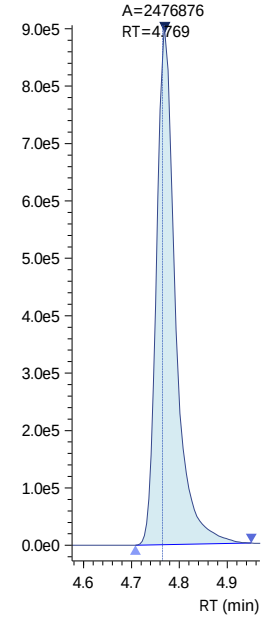
R1 463.00>219.00 (-) 4.46e4



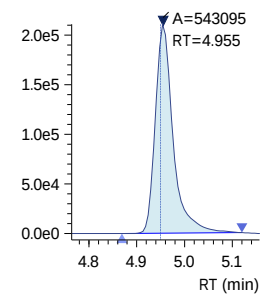
PFNA-13C
Conc 5.3475
Q 467.80>423.00 (-) 9.06e5



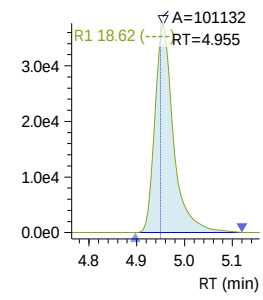
PFNA-13C_IS
Conc 5.0000
ISTD 467.80>423.00 (-) 9.06e5



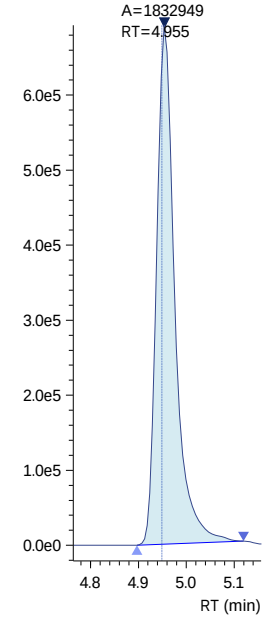
PFDA
Conc 0.9906
R#1 18.62 (18.73)
Q 513.00>468.80 (-) 2.11e5



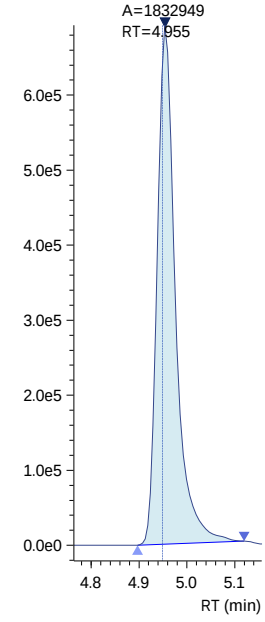
R1 513.00>219.10 (-) 3.77e4



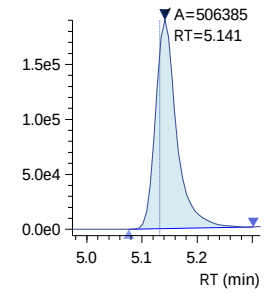
PFDA-13C
Conc 5.3540
Q 514.80>469.95 (-) 6.93e5

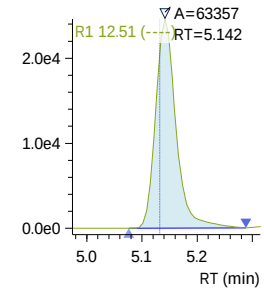


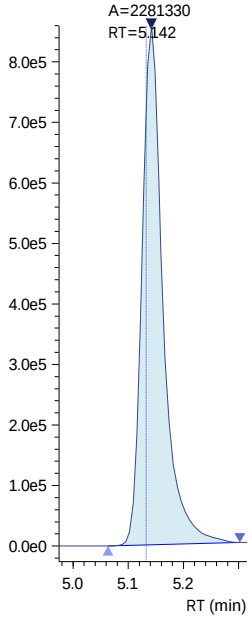
PFDA-13C_IS
Conc 5.0000
ISTD 514.80>469.95 (-) 6.93e5

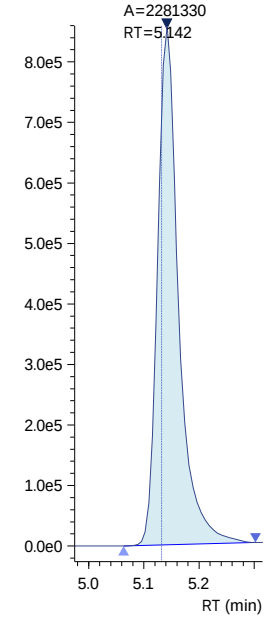


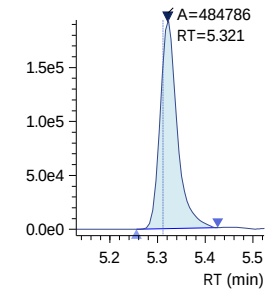
210823_018 (continued)

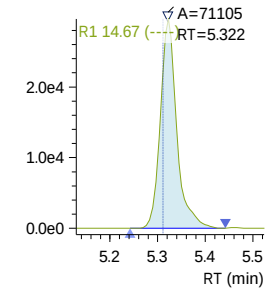
PFUnA
Conc 0.9292
R#1 12.51 (11.60)
Q 563.00>518.90 (-) 1.90e5


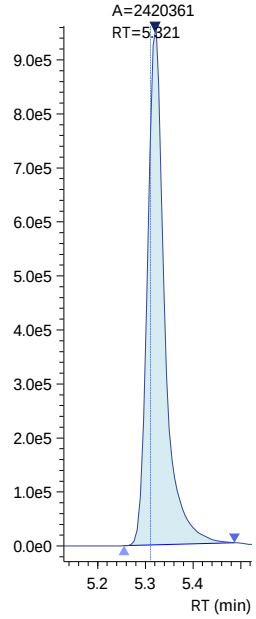
R1 563.00>219.00 (-) 2.46e4


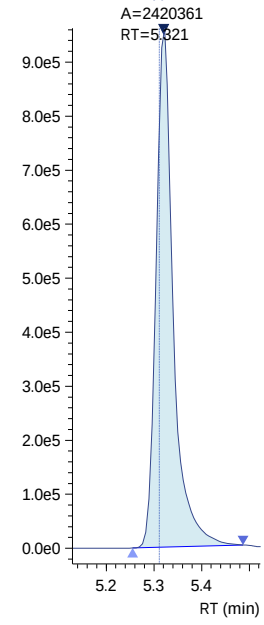
PFUnA-13C
Conc 5.0015
Q 564.80>519.95 (-) 8.59e5


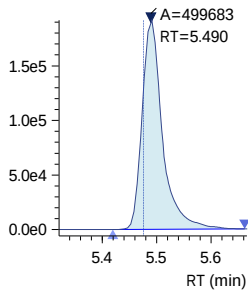
PFUnA-13C_IS
Conc 5.0000
ISTD 564.80>519.95 (-) 8.59e5


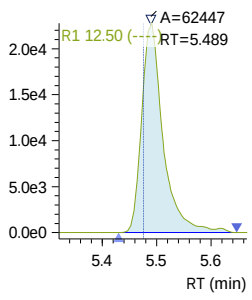
PFDoA
Conc 1.0294
R#1 14.67 (15.11)
Q 613.05>569.00 (-) 1.94e5


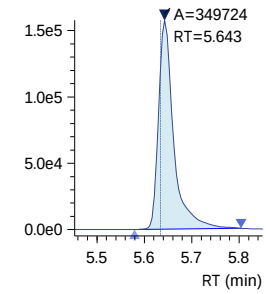
R1 613.05>169.00 (-) 2.96e4


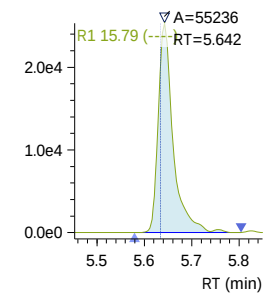
PFDoA-13C
Conc 4.8441
Q 614.80>569.95 (-) 9.63e5


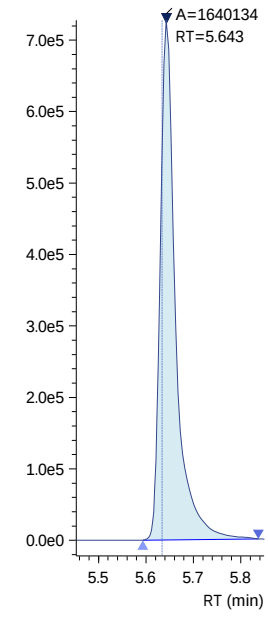
PFDoA-13C_IS
Conc 5.0000
ISTD 614.80>569.95 (-) 9.63e5


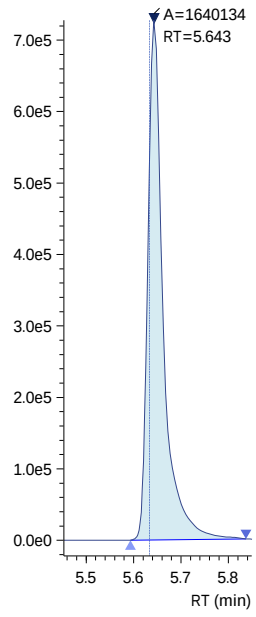
PFTrDA
Conc 1.0261
R#1 12.50 (14.19)
Q 663.00>618.90 (-) 1.92e5


R1 662.90>169.00 (-) 2.28e4


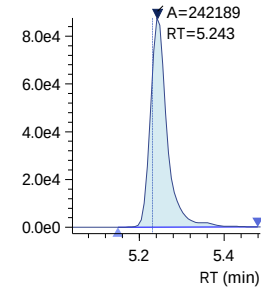
PFTeDA
Conc 0.9484
R#1 15.79 (14.98)
Q 713.00>669.00 (-) 1.58e5


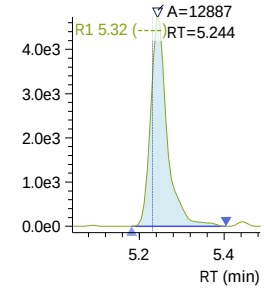
R1 713.00>169.10 (-) 2.53e4


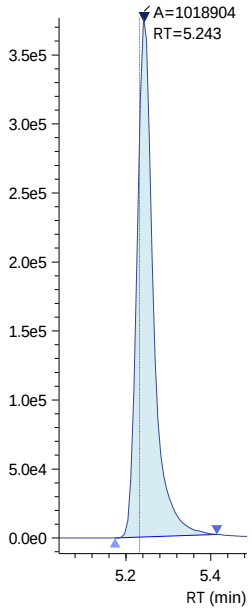
PFTeDA-13C
Conc 4.8506
Q 714.70>669.90 (-) 7.28e5


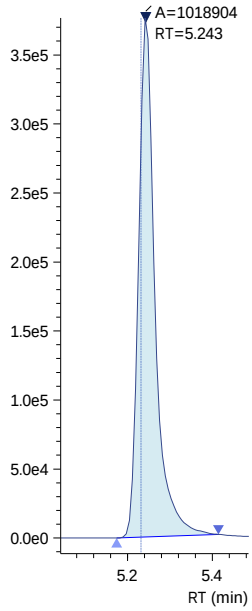
PFTeDA-13C_IS
Conc 5.0000
ISTD 714.70>669.90 (-) 7.28e5


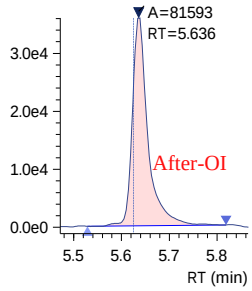
210823_018 (continued)

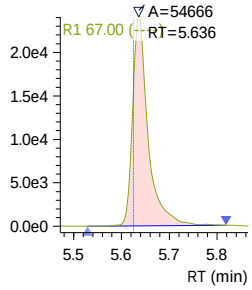
FOSA
Conc 0.9352
R#1 5.32 (4.89)
Q 498.20>78.00 (-) 8.76e4


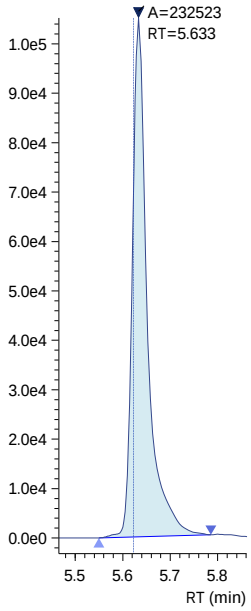
R1 498.20>64.10 (-) 4.73e3


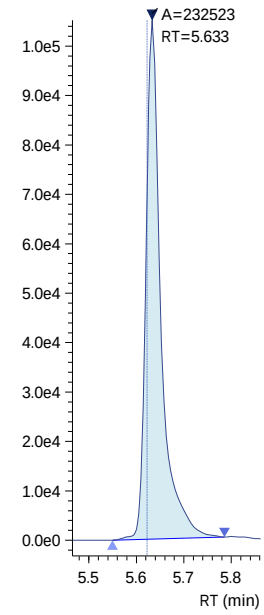
FOSA-13C
Conc 4.7318
Q 506.00>78.05 (-) 3.77e5


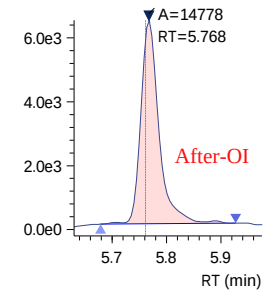
FOSA-13C_IS
Conc 5.0000
ISTD 506.00>78.05 (-) 3.77e5


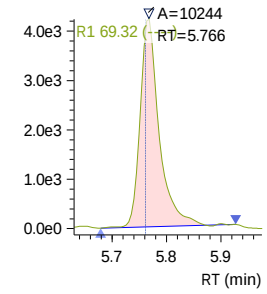
N-MeFOSA
Conc 0.9374
R#1 67.00 (62.72)
Q 512.00>169.10 (-) 3.61e4


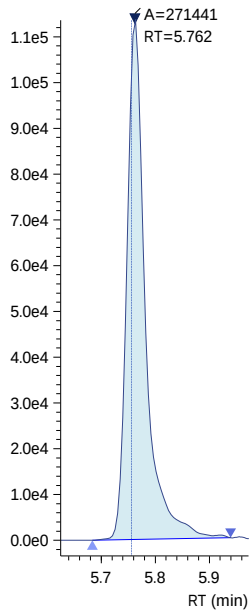
R1 512.00>219.00 (-) 2.41e4


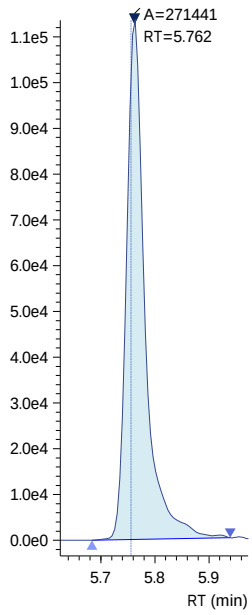
N-MeFOSA-d3
Conc 4.6441
Q 514.90>168.90 (-) 1.05e5


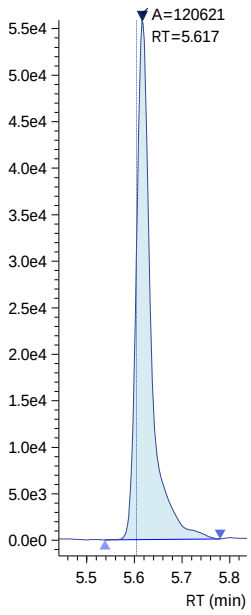
N-MeFOSA-d3_IS
Conc 5.0000
ISTD 514.90>168.90 (-) 1.05e5


N-MeFOSA
Conc 0.8687
R#1 69.32 (63.35)
Q 526.90>169.10 (-) 6.55e3


R1 526.90>219.00 (-) 4.24e3


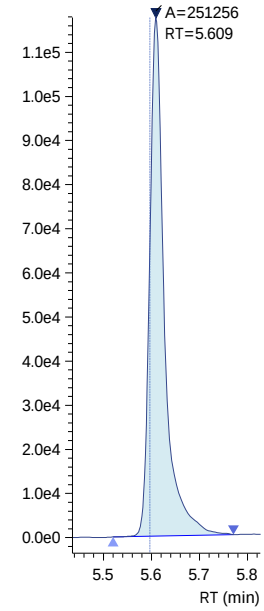
N-EtFOSA-d9
Conc 4.7715
Q 530.90>169.15 (-) 1.14e5


N-EtFOSA-d9_IS
Conc 5.0000
ISTD 530.90>169.15 (-) 1.14e5


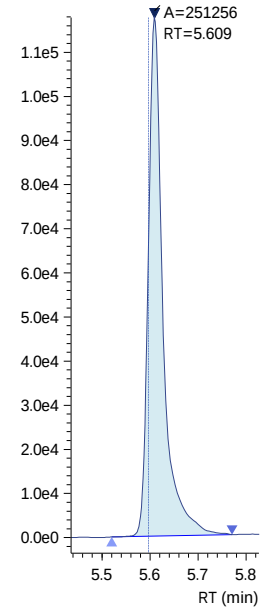
N-MeFOSE
Conc 1.0962
Q 616.00>59.00 (-) 5.59e4


210823_018 (continued)

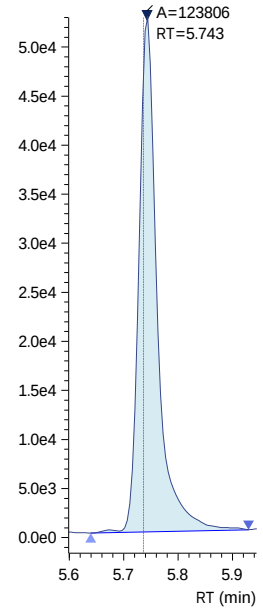
N-MeFOSE-d7
Conc 5.0182
Q 622.70>59.10 (-) 1.18e5



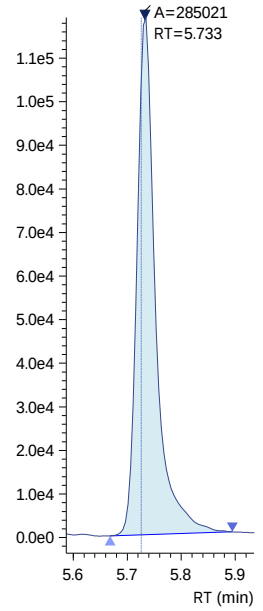
N-MeFOSE-d7_IS
Conc 5.0000
ISTD 622.70>59.10 (-) 1.18e5



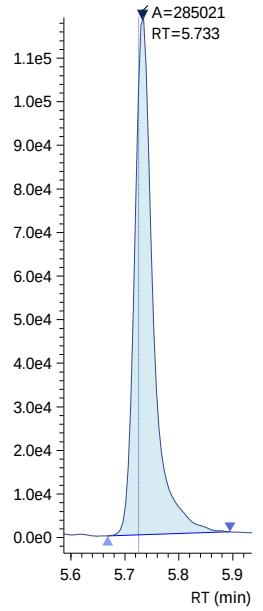
N-EtFOSE
Conc 0.9492
Q 630.00>58.90 (-) 5.30e4



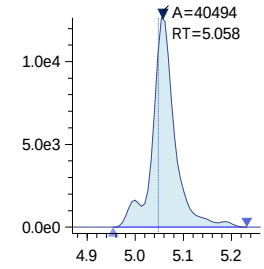
N-EtFOSE-d9
Conc 5.4984
Q 638.70>59.10 (-) 1.19e5



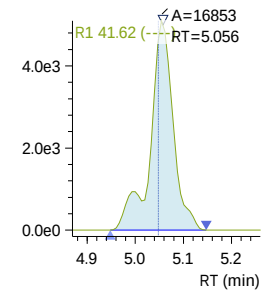
N-EtFOSE-d9_IS
Conc 5.0000
ISTD 638.70>59.10 (-) 1.19e5



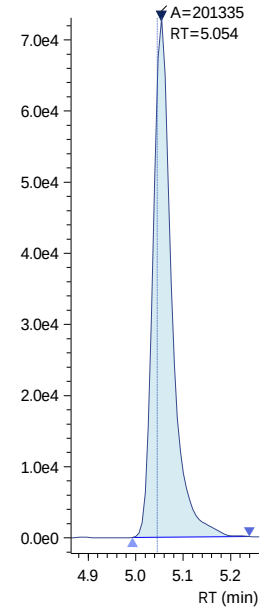
N-MeFOSAA
Conc 1.0722
R#1 41.62 (35.26)
Q 570.20>419.00 (-) 1.26e4



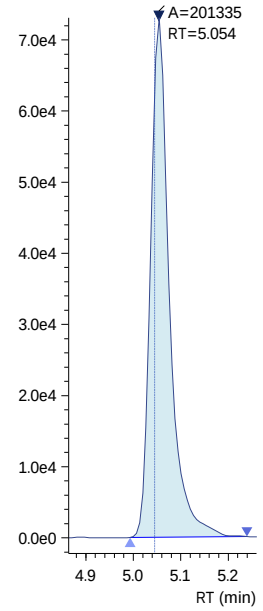
R1 570.20>512.00 (-) 5.10e3



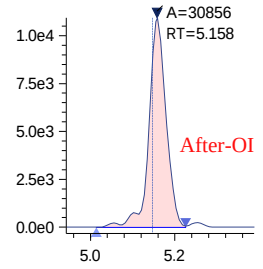
N-MeFOSAA-d3
Conc 4.9304
Q 572.80>419.05 (-) 7.31e4



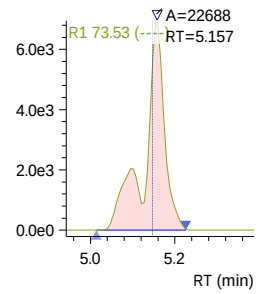
N-MeFOSAA-d3_IS
Conc 5.0000
ISTD 572.80>419.05 (-) 7.31e4



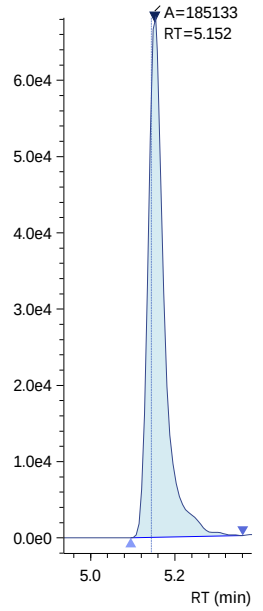
N-EtFOSAA
Conc 0.9645
R#1 73.53 (77.25)
Q 584.20>418.95 (-) 1.09e4



R1 584.20>526.10 (-) 6.95e3

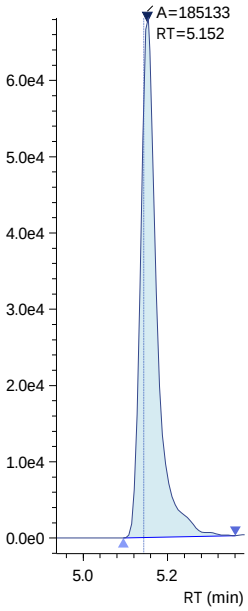


N-EtFOSAA-d5
Conc 4.8699
Q 588.80>419.00 (-) 6.82e4

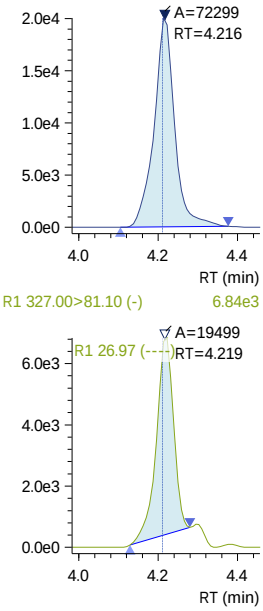


210823_018 (continued)

N-EtFOSAA-d5_IS
Conc 5.0000
ISTD 588.80>419.00 (-) 6.82e4

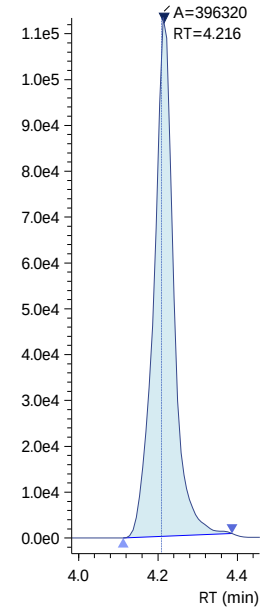


4_2-FTS_1
Conc 0.9106
R#1 26.97 (39.85)
Q 327.00>307.05 (-) 2.01e4

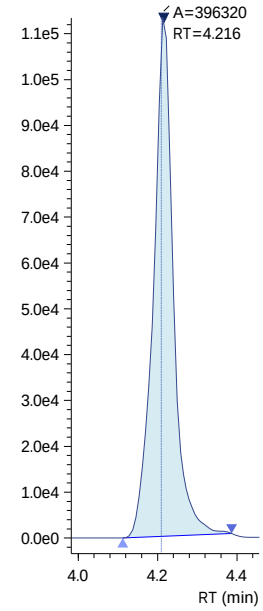


R1 327.00>81.10 (-) 6.84e3

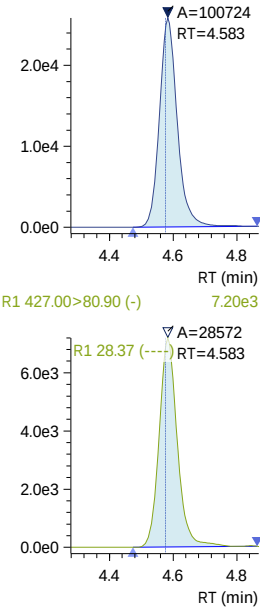
4_2-FTS-13C
Conc 4.7576
Q 328.80>309.05 (-) 1.13e5



4_2-FTS-13C_IS
Conc 5.0000
ISTD 328.80>309.05 (-) 1.13e5

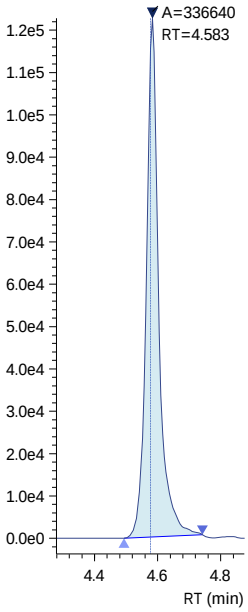


6_2-FTS_1
Conc 1.0756
R#1 28.37 (29.95)
Q 427.00>407.00 (-) 2.58e4

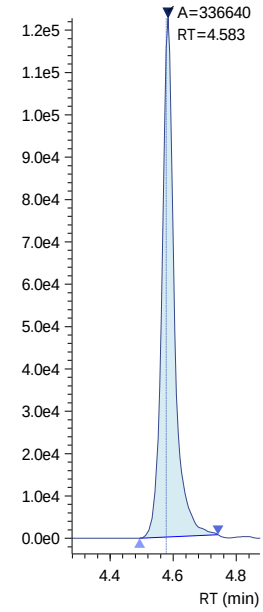


R1 427.00>80.90 (-) 7.20e3

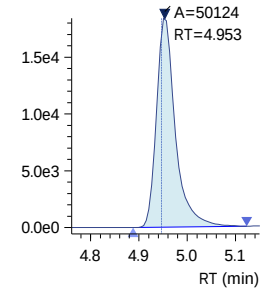
6_2-FTS-13C
Conc 4.2777
Q 428.90>409.00 (-) 1.23e5



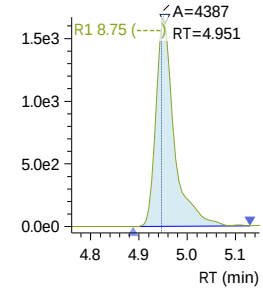
6_2-FTS-13C_IS
Conc 5.0000
ISTD 428.90>409.00 (-) 1.23e5



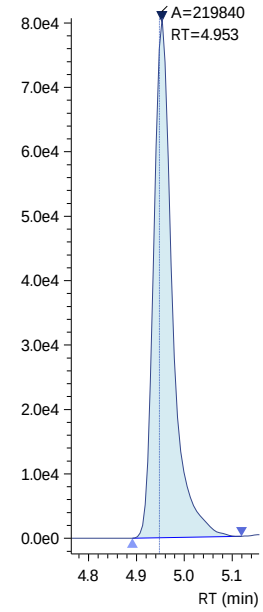
8_2-FTS_1
Conc 0.9803
R#1 8.75 (9.42)
Q 527.10>506.90 (-) 1.84e4



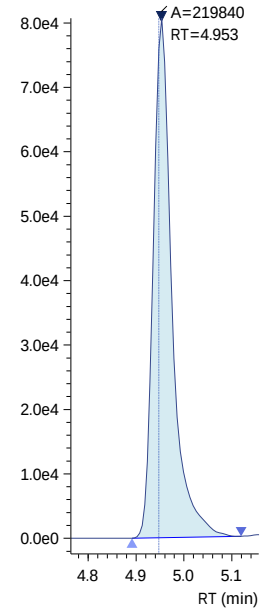
R1 527.20>487.00 (-) 1.67e3



8_2-FTS-13C
Conc 5.2485
Q 528.80>509.00 (-) 8.07e4



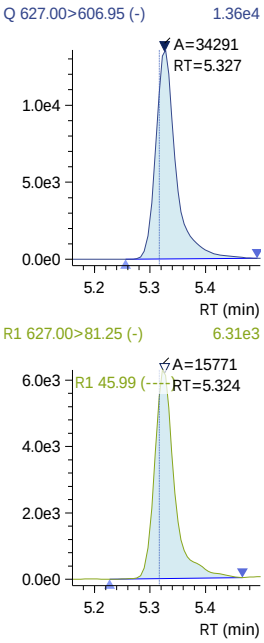
8_2-FTS-13C_IS
Conc 5.0000
ISTD 528.80>509.00 (-) 8.07e4



210823_018 (continued)

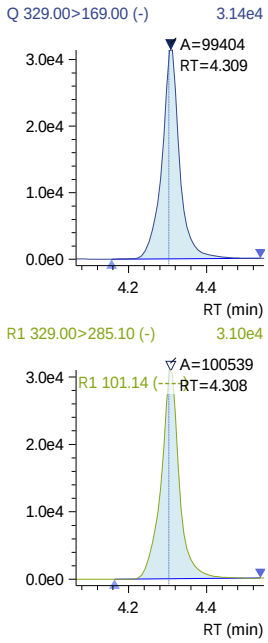
10_2-FtS_1

Conc 0.9694
R#1 45.99 (49.86)



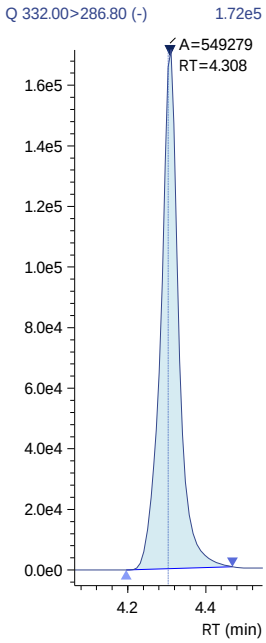
HPFO_DA

Conc 0.9949
R#1 101.14 (101.52)



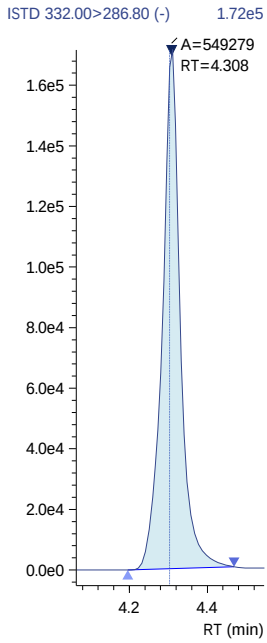
HFPO_DA-13C

Conc 5.8644



HFPO_DA-13C_IS

Conc 5.0000

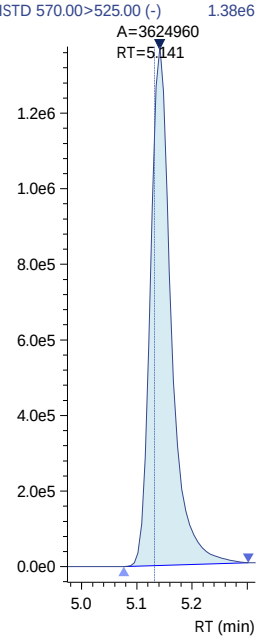


Insight Report
Before Manual Integration
Printed 8/27/2021 15:36:01

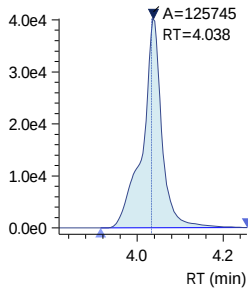
210823_018

Sample ID: KQ2115525-03
Date Acquired: 8/23/2021 7:16:04 PM
Acquired by: System Administrator
Data File: 210823_018
Vial: 4 | Inj. Volume: 15.0000uL | Tray: 3

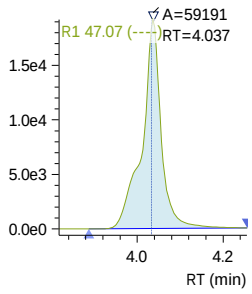
13C7-PFUnDA_IS
Conc 5.0000
ISTD 570.00>525.00 (-) 1.38e6



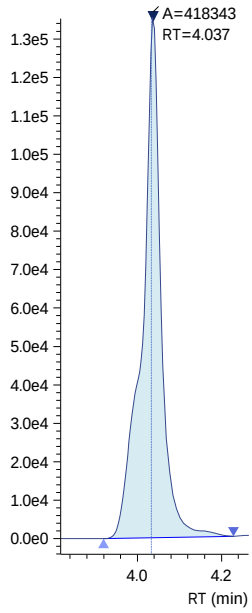
PFBS_1
Conc 0.8337
R#1 47.07 (47.76)
Q 299.00>80.00 (-) 4.02e4



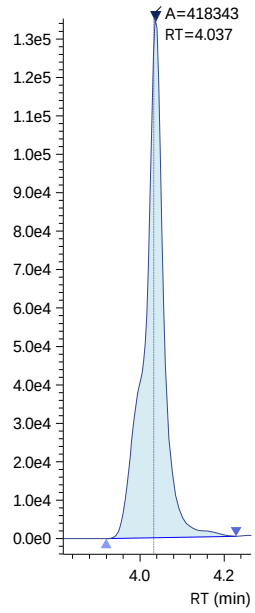
R1 298.80>99.00 (-) 1.92e4



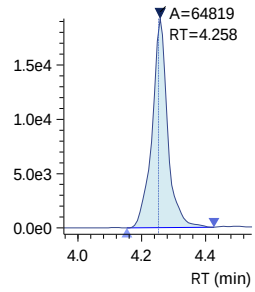
PFBS-13C
Conc 5.5902
Q 301.80>80.00 (-) 1.35e5



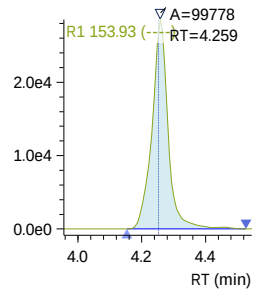
PFBS-13C_IS
Conc 5.0000
ISTD 301.80>80.00 (-) 1.35e5



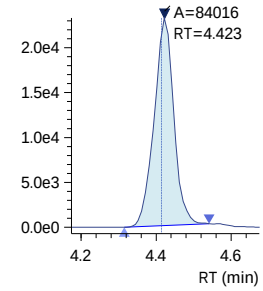
PFPeS
Conc 0.7895
R#1 153.93 (136.08)
Q 349.00>99.00 (-) 1.93e4

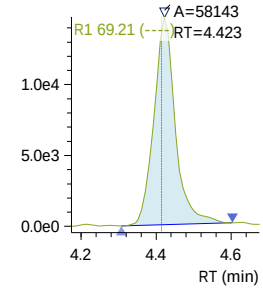


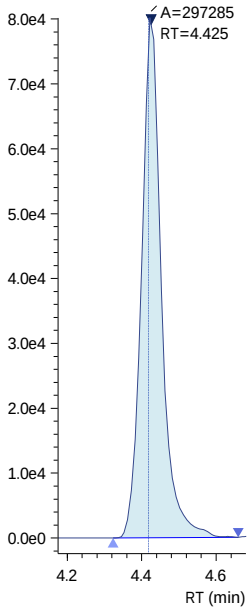
R1 349.00>79.95 (-) 2.85e4

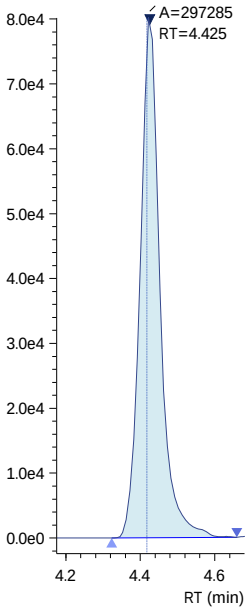


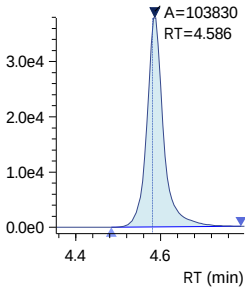
210823_018 (continued)

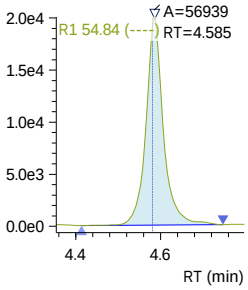
PFHxS_1
Conc 0.8291
R#1 69.21 (71.26)
Q 399.00>80.00 (-) 2.33e4


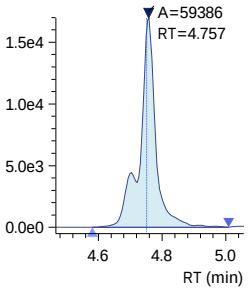
R1 399.00>99.00 (-) 1.48e4


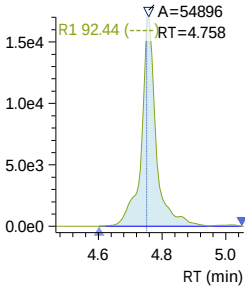
PFHxS-18O
Conc 5.8261
Q 402.70>84.05 (-) 8.02e4


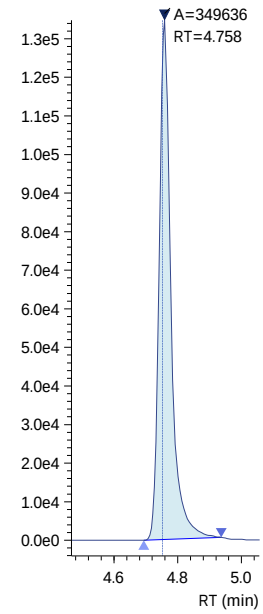
PFHxS-18O_IS
Conc 5.0000
ISTD 402.70>84.05 (-) 8.02e4


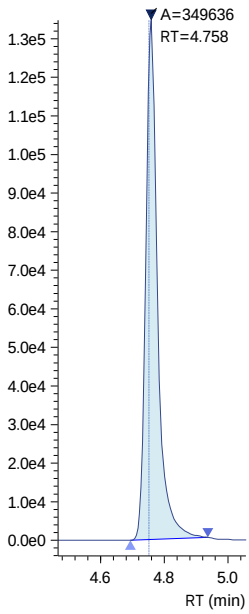
PFHpS_1
Conc 0.8322
R#1 54.84 (53.84)
Q 449.00>80.15 (-) 3.79e4


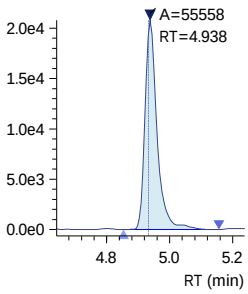
R1 449.00>99.20 (-) 2.01e4


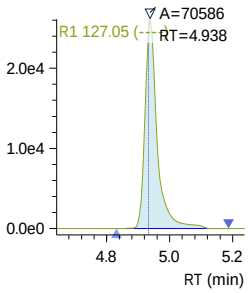
PFOS_1
Conc 0.9029
R#1 92.44 (86.72)
Q 499.00>80.00 (-) 1.70e4


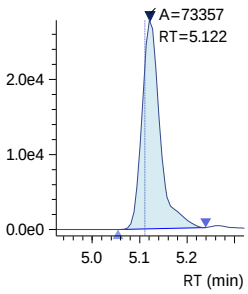
R1 499.00>99.00 (-) 1.70e4


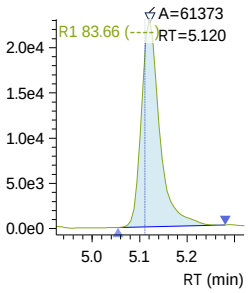
PFOS-13C
Conc 5.5132
Q 502.80>80.05 (-) 1.35e5


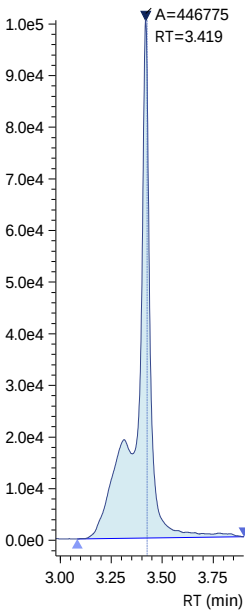
PFOS-13C_IS
Conc 5.0000
ISTD 502.80>80.05 (-) 1.35e5


PFNS
Conc 0.9341
R#1 127.05 (129.18)
Q 549.00>99.00 (-) 2.08e4


R1 549.00>79.95 (-) 2.61e4


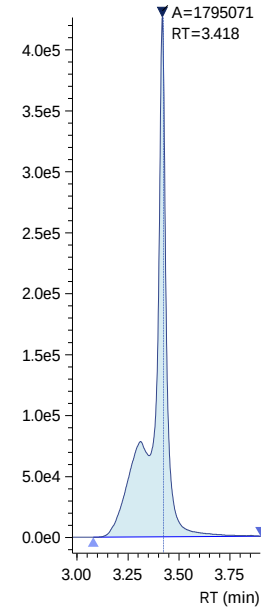
PFDS_1
Conc 0.8587
R#1 83.66 (90.77)
Q 599.00>79.90 (-) 2.79e4


R1 599.00>99.10 (-) 2.31e4


PFBA
Conc 1.0143
Q 213.00>169.10 (-) 1.01e5


210823_018 (continued)

PFBA-13C
Conc 6.0630
Q 216.90>172.15 (-) 4.27e5



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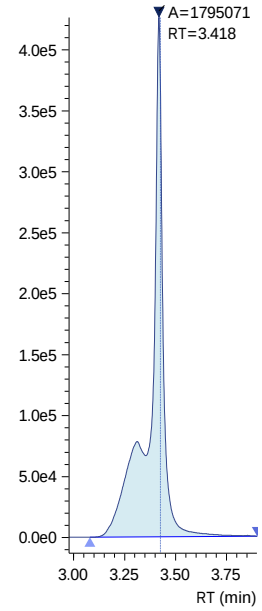
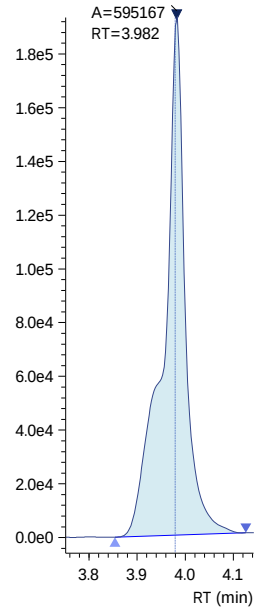
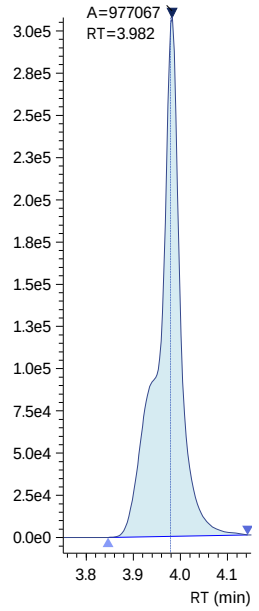
ISTD 216.90>172.15 (-) 4.27e5



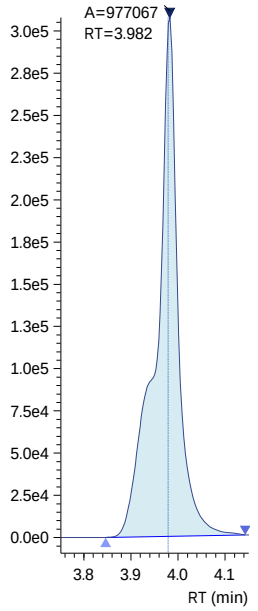
PFPeA
Conc 0.9578
Q 263.05>219.10 (-) 1.94e5



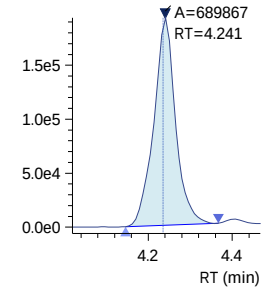
PFPeA-13C
Conc 5.0077
Q 267.90>223.00 (-) 3.08e5



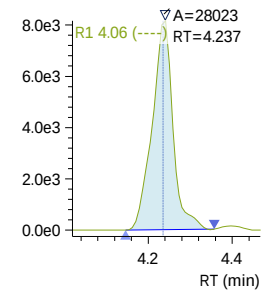
PFPeA-13C_IS
Conc 5.0000
ISTD 267.90>223.00 (-) 3.08e5



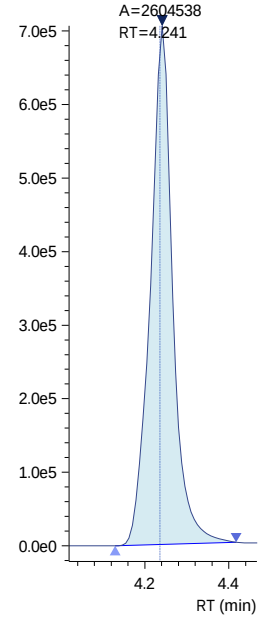
PFHxA
Conc 0.9776
R#1 4.06 (4.17)
Q 313.00>269.00 (-) 1.94e5



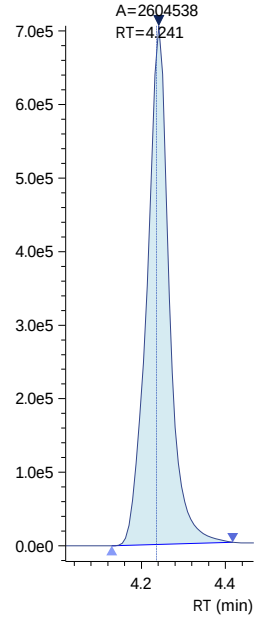
R1 313.00>119.10 (-) 8.17e3



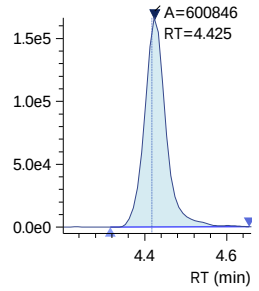
PFHxA-13C
Conc 4.8482
Q 314.90>270.10 (-) 7.07e5



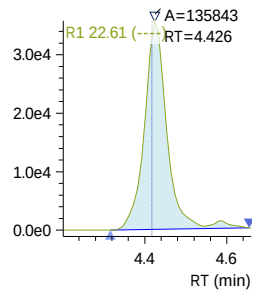
PFHxA-13C_IS
Conc 5.0000
ISTD 314.90>270.10 (-) 7.07e5



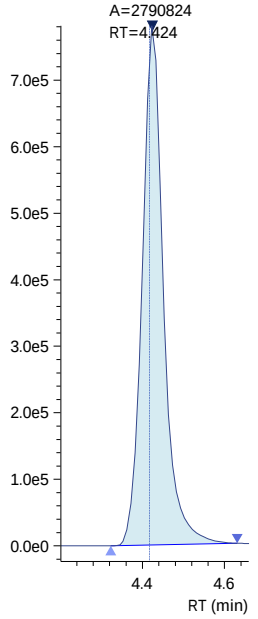
PFHpA
Conc 0.9901
R#1 22.61 (26.04)
Q 362.90>319.00 (-) 1.66e5



R1 362.90>169.00 (-) 3.58e4

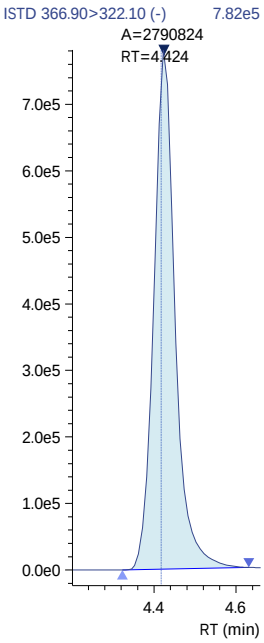


PFHpA-13C
Conc 5.1167
Q 366.90>322.10 (-) 7.82e5

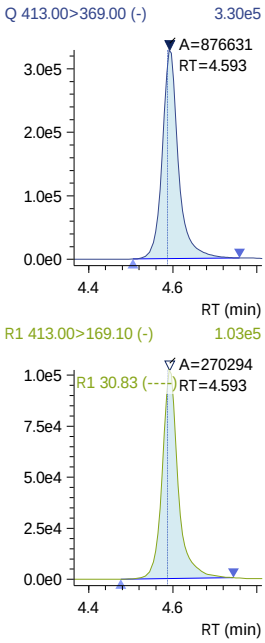


210823_018 (continued)

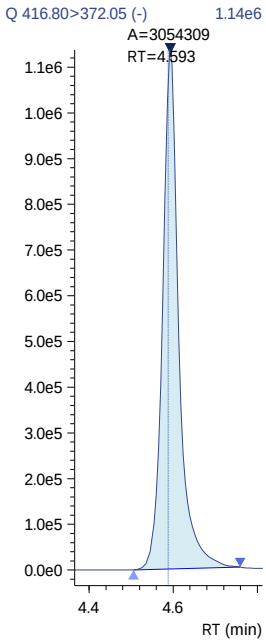
PFHpA-13C_IS
Conc 5.0000



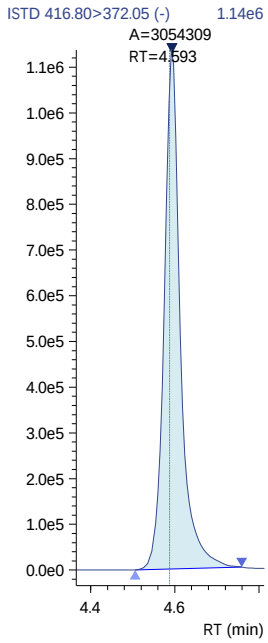
PFOA
Conc 0.9338
R#1 30.83 (30.35)



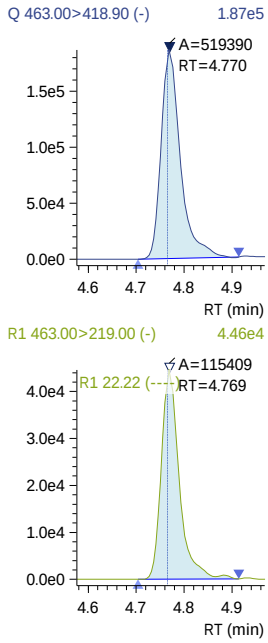
PFOA-13C
Conc 5.0302



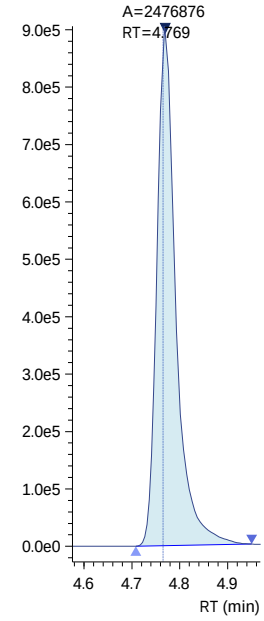
PFOA-13C_IS
Conc 5.0000



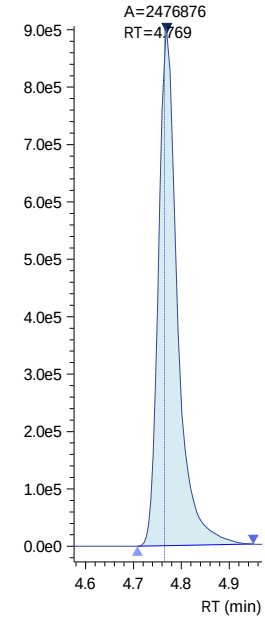
PFNA
Conc 0.8495
R#1 22.22 (22.35)



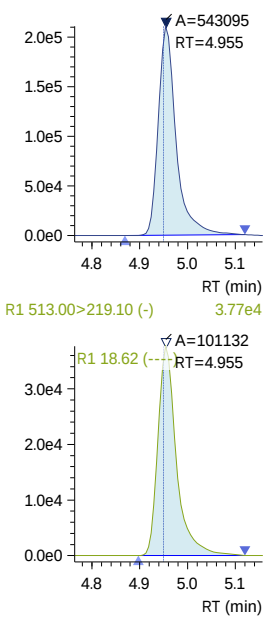
PFNA-13C
Conc 5.3475



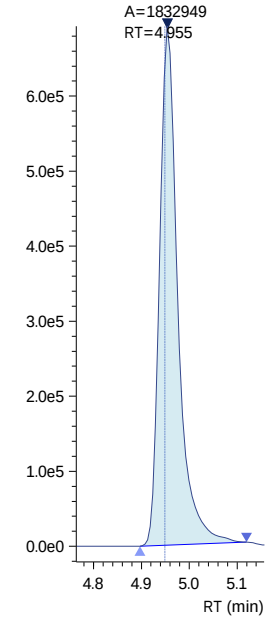
PFNA-13C_IS
Conc 5.0000



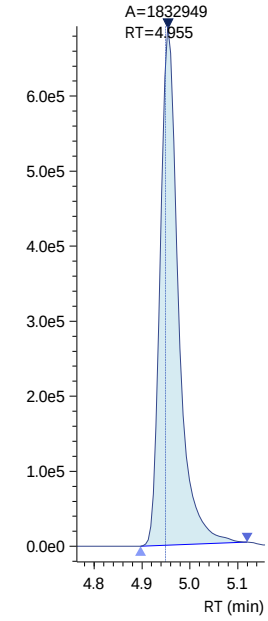
PFDA
Conc 0.9906
R#1 18.62 (18.73)



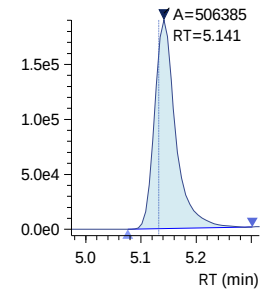
PFDA-13C
Conc 5.3540

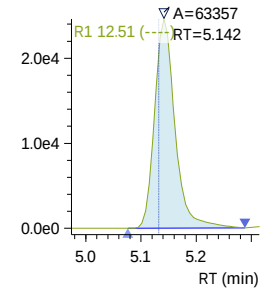


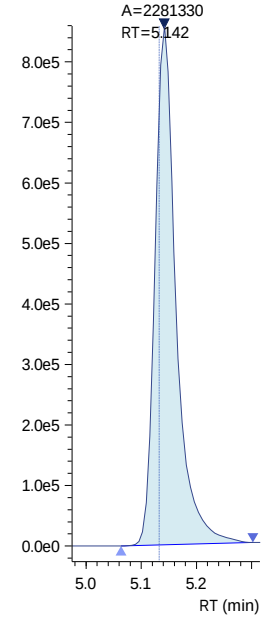
PFDA-13C_IS
Conc 5.0000

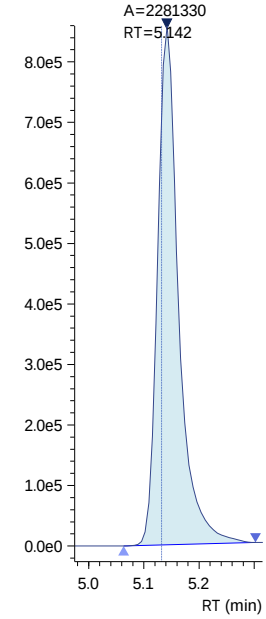


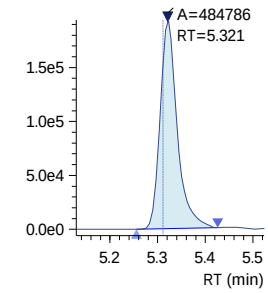
210823_018 (continued)

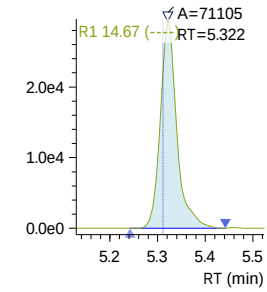
PFUnA
Conc 0.9292
R#1 12.51 (11.60)
Q 563.00>518.90 (-) 1.90e5


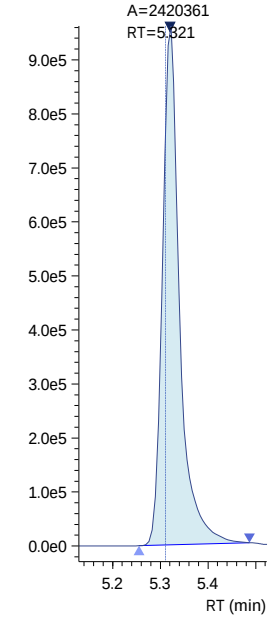
R1 563.00>219.00 (-) 2.46e4


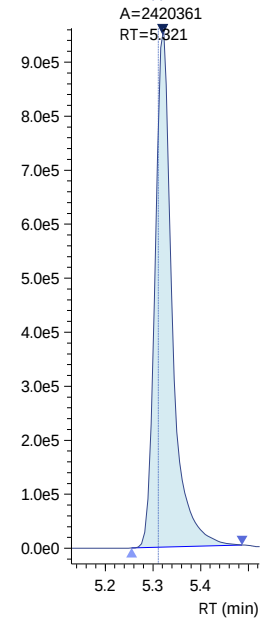
PFUnA-13C
Conc 5.0015
Q 564.80>519.95 (-) 8.59e5


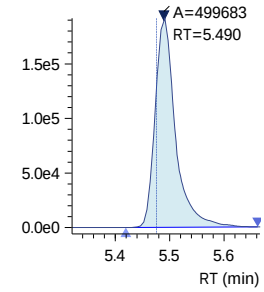
PFUnA-13C_IS
Conc 5.0000
ISTD 564.80>519.95 (-) 8.59e5


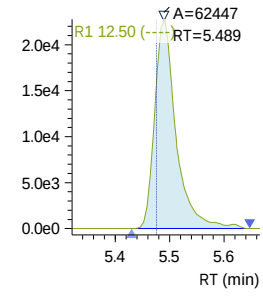
PFDoA
Conc 1.0294
R#1 14.67 (15.11)
Q 613.05>569.00 (-) 1.94e5


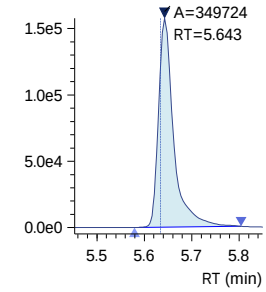
R1 613.05>169.00 (-) 2.96e4


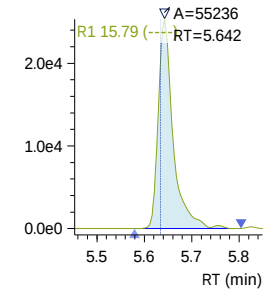
PFDoA-13C
Conc 4.8441
Q 614.80>569.95 (-) 9.63e5


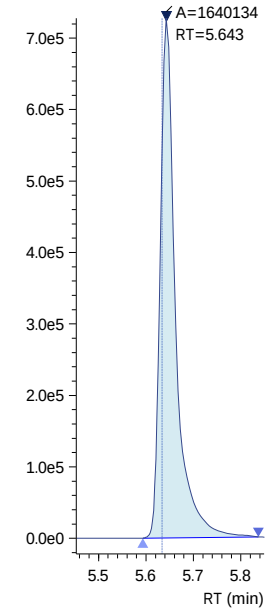
PFDoA-13C_IS
Conc 5.0000
ISTD 614.80>569.95 (-) 9.63e5


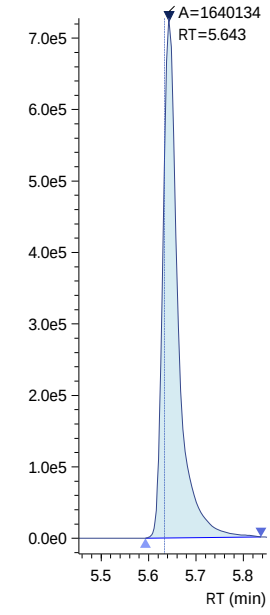
PFTrDA
Conc 1.0261
R#1 12.50 (14.19)
Q 663.00>618.90 (-) 1.92e5


R1 662.90>169.00 (-) 2.28e4


PFTeDA
Conc 0.9484
R#1 15.79 (14.98)
Q 713.00>669.00 (-) 1.58e5


R1 713.00>169.10 (-) 2.53e4


PFTeDA-13C
Conc 4.8506
Q 714.70>669.90 (-) 7.28e5


PFTeDA-13C_IS
Conc 5.0000
ISTD 714.70>669.90 (-) 7.28e5


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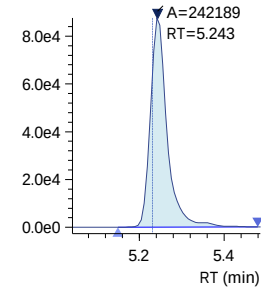
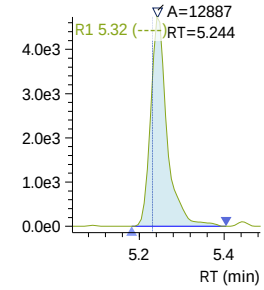
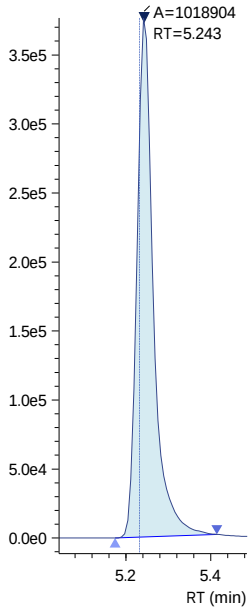
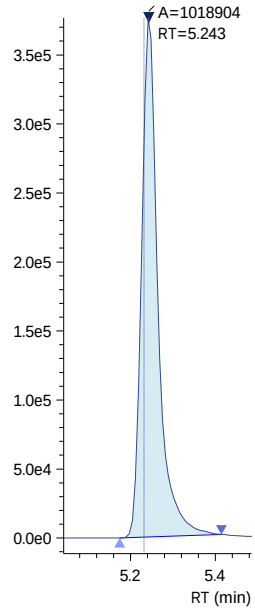
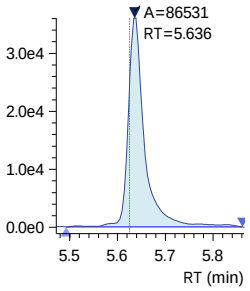
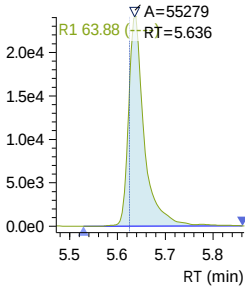
FOSA
Conc 0.9352
R#1 5.32 (4.89)
Q 498.20>78.00 (-) 8.76e4


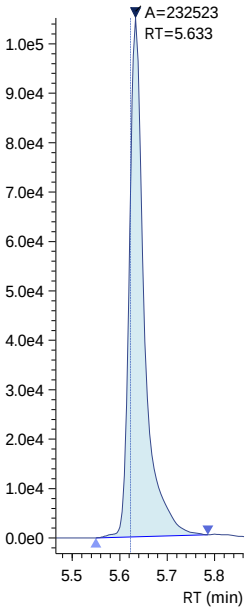
R1 498.20>64.10 (-) 4.73e3


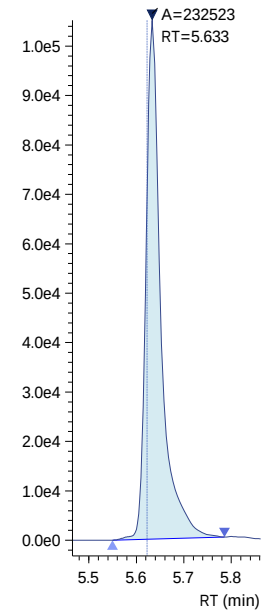
FOSA-13C
Conc 4.7318
Q 506.00>78.05 (-) 3.77e5


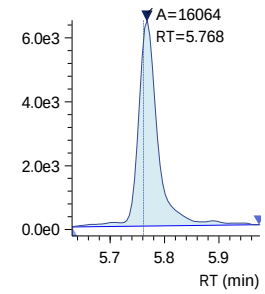
FOSA-13C_IS
Conc 5.0000
ISTD 506.00>78.05 (-) 3.77e5


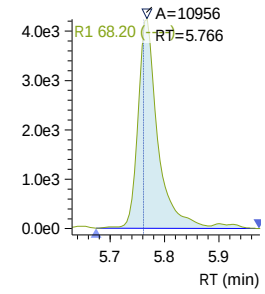
N-MeFOSA
Conc 0.9941
R#1 63.88 (62.72)
Q 512.00>169.10 (-) 3.61e4


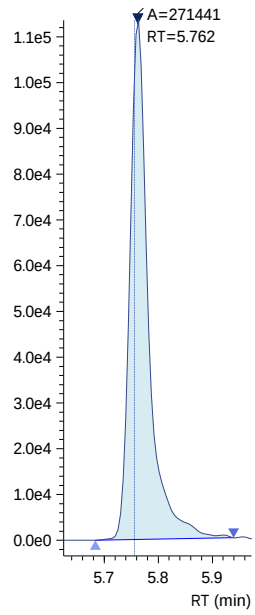
R1 512.00>219.00 (-) 2.41e4


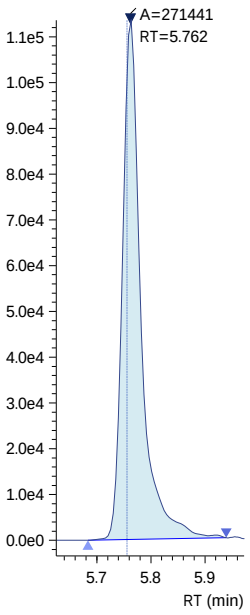
N-MeFOSA-d3
Conc 4.6441
Q 514.90>168.90 (-) 1.05e5


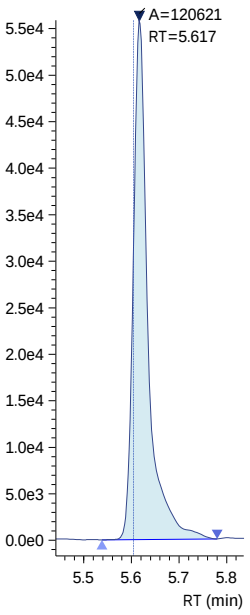
N-MeFOSA-d3_IS
Conc 5.0000
ISTD 514.90>168.90 (-) 1.05e5


N-EtFOSA
Conc 0.9443
R#1 68.20 (63.35)
Q 526.90>169.10 (-) 6.55e3


R1 526.90>219.00 (-) 4.24e3


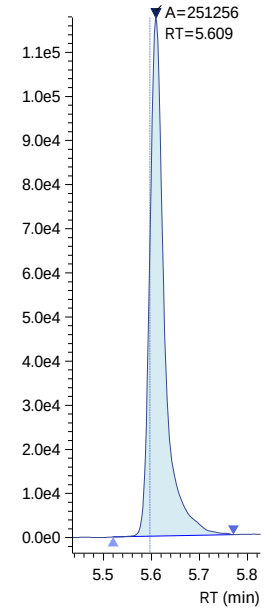
N-EtFOSA-d9
Conc 4.7715
Q 530.90>169.15 (-) 1.14e5


N-EtFOSA-d9_IS
Conc 5.0000
ISTD 530.90>169.15 (-) 1.14e5


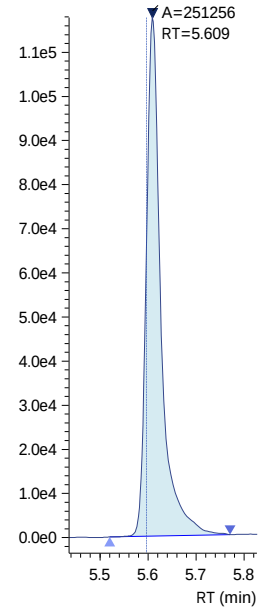
N-MeFOSE
Conc 1.0962
Q 616.00>59.00 (-) 5.59e4


210823_018 (continued)

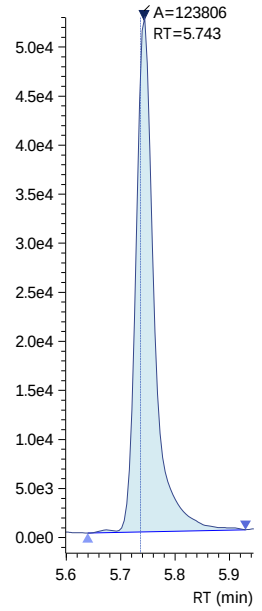
N-MeFOSE-d7
Conc 5.0182
Q 622.70>59.10 (-) 1.18e5



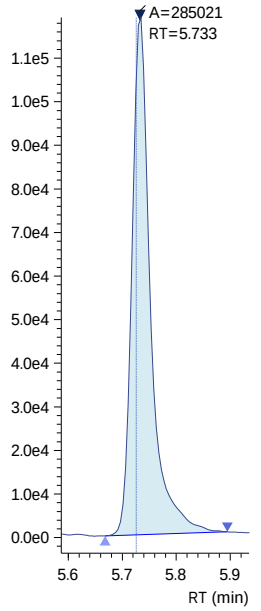
N-MeFOSE-d7_IS
Conc 5.0000
ISTD 622.70>59.10 (-) 1.18e5



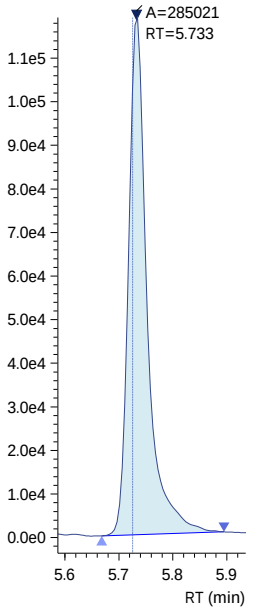
N-EtFOSE
Conc 0.9492
Q 630.00>58.90 (-) 5.30e4



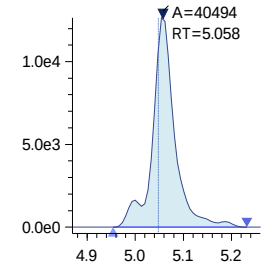
N-EtFOSE-d9
Conc 5.4984
Q 638.70>59.10 (-) 1.19e5



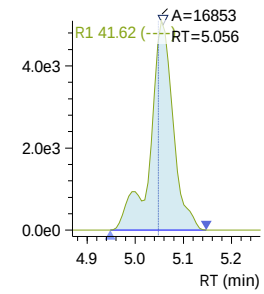
N-EtFOSE-d9_IS
Conc 5.0000
ISTD 638.70>59.10 (-) 1.19e5



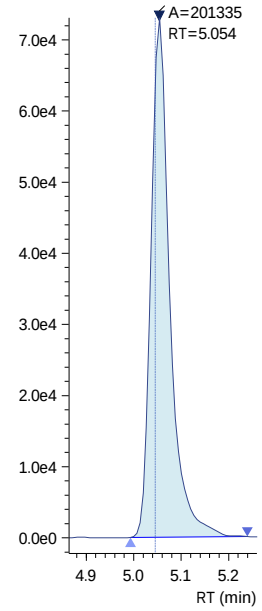
N-MeFOSAA
Conc 1.0722
R#1 41.62 (35.26)
Q 570.20>419.00 (-) 1.26e4



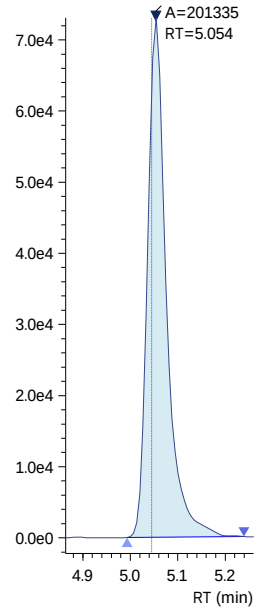
R1 570.20>512.00 (-) 5.10e3



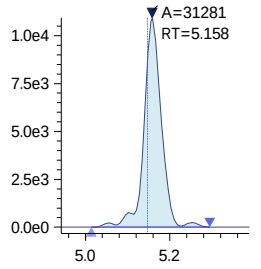
N-MeFOSAA-d3
Conc 4.9304
Q 572.80>419.05 (-) 7.31e4



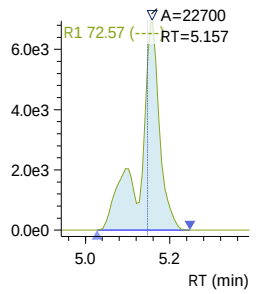
N-MeFOSAA-d3_IS
Conc 5.0000
ISTD 572.80>419.05 (-) 7.31e4



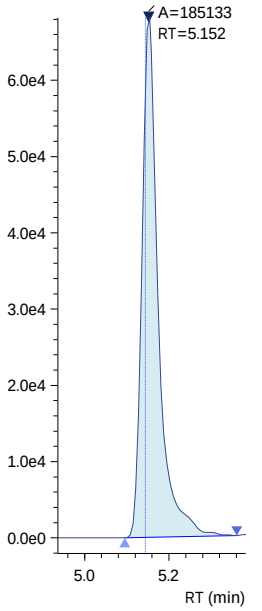
N-EtFOSAA
Conc 0.9774
R#1 72.57 (77.25)
Q 584.20>418.95 (-) 1.09e4



R1 584.20>526.10 (-) 6.95e3

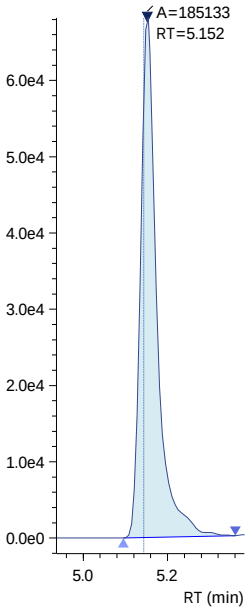


N-EtFOSAA-d5
Conc 4.8699
Q 588.80>419.00 (-) 6.82e4

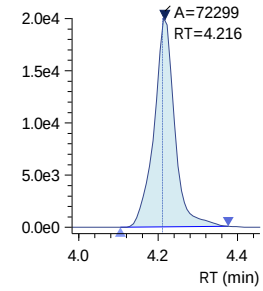


210823_018 (continued)

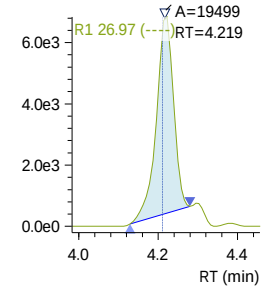
N-EtFOSAA-d5_IS
Conc 5.0000
ISTD 588.80>419.00 (-) 6.82e4



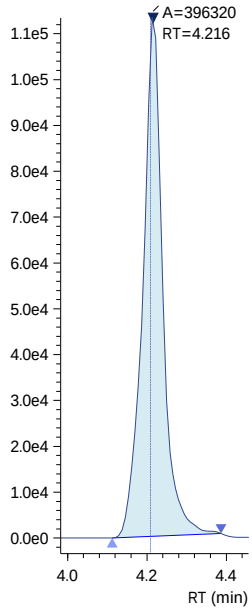
4_2-FTS_1
Conc 0.9106
R#1 26.97 (39.85)
Q 327.00>307.05 (-) 2.01e4



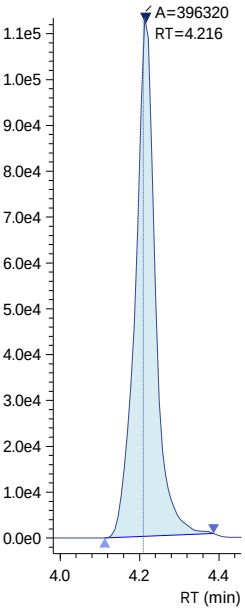
R1 327.00>81.10 (-) 6.84e3



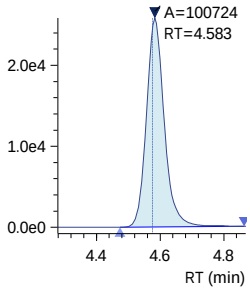
4_2-FTS-13C
Conc 4.7576
Q 328.80>309.05 (-) 1.13e5



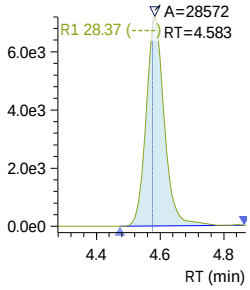
4_2-FTS-13C_IS
Conc 5.0000
ISTD 328.80>309.05 (-) 1.13e5



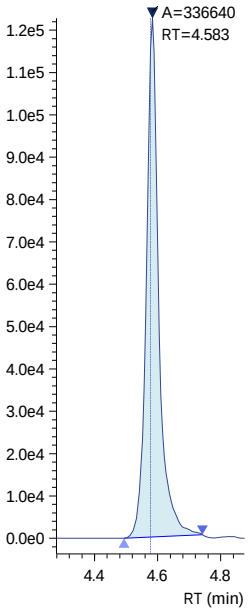
6_2-FTS_1
Conc 1.0756
R#1 28.37 (29.95)
Q 427.00>407.00 (-) 2.58e4



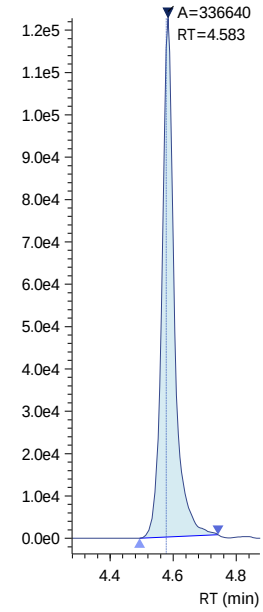
R1 427.00>80.90 (-) 7.20e3



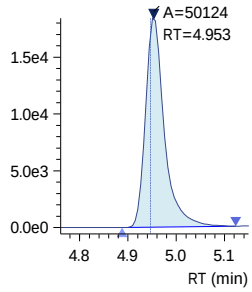
6_2-FTS-13C
Conc 4.2777
Q 428.90>409.00 (-) 1.23e5



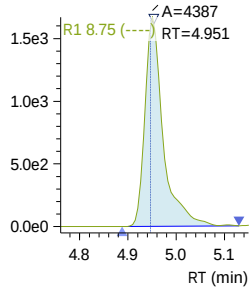
6_2-FTS-13C_IS
Conc 5.0000
ISTD 428.90>409.00 (-) 1.23e5



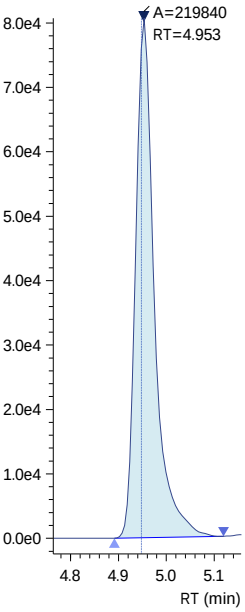
8_2-FTS_1
Conc 0.9803
R#1 8.75 (9.42)
Q 527.10>506.90 (-) 1.84e4



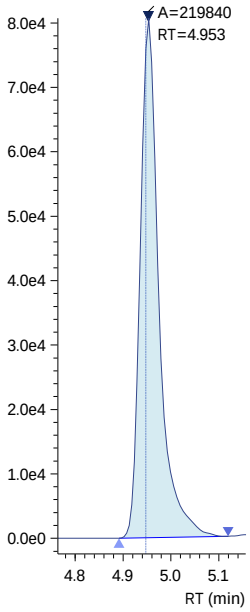
R1 527.20>487.00 (-) 1.67e3



8_2-FTS-13C
Conc 5.2485
Q 528.80>509.00 (-) 8.07e4

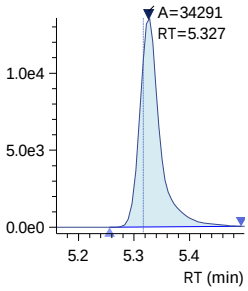


8_2-FTS-13C_IS
Conc 5.0000
ISTD 528.80>509.00 (-) 8.07e4

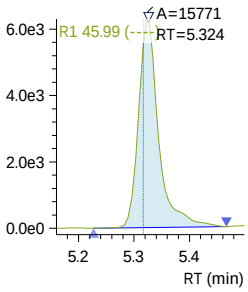


210823_018 (continued)

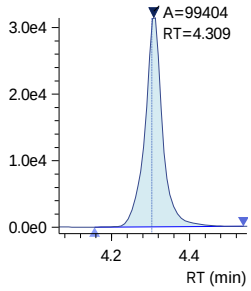
10_2-FtS_1
Conc 0.9694
R#1 45.99 (49.86)
Q 627.00>606.95 (-) 1.36e4



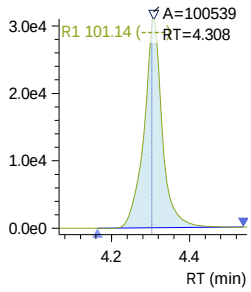
R1 627.00>81.25 (-) 6.31e3



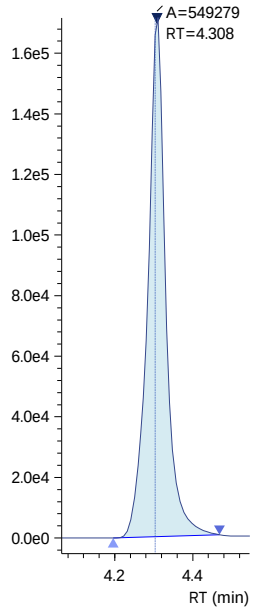
HPFO_DA
Conc 0.9949
R#1 101.14 (101.52)
Q 329.00>169.00 (-) 3.14e4



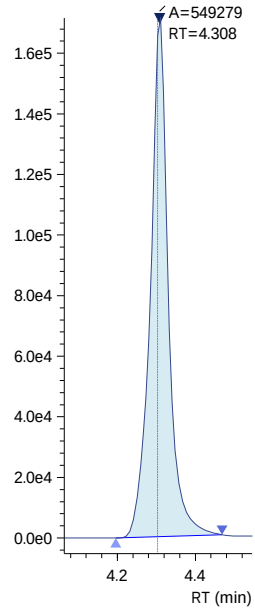
R1 329.00>285.10 (-) 3.10e4



HFPO_DA-13C
Conc 5.8644
Q 332.00>286.80 (-) 1.72e5



HFPO_DA-13C_IS
Conc 5.0000
ISTD 332.00>286.80 (-) 1.72e5



1st UA 09/15/21
2nd ~~#~~ 09/16/21

Validation Report

Data File: J:\LCMS06\Data\210914_B1\210914_018
Lab ID: KQ2115544-05
RunType: LCS
Matrix: Soil

Date Acquired: 9/14/21 14:03
Batch ID: 738712
Analysis Method: PFC/537M/PFAS

Validations

Validation Categories	Pass	Fail
Analytical Hold Time	X	
ICAL Analyte Recovery	X	
Second Source ICAL Verification	X	
Continuing Calibration Recovery		X
Internal Standards	X	
Surrogates	X	
Std MRL Unsupported by ICAL	X	
Above Highest ICAL Level	X	

Analyte Exceptions

Exception Categories	Analyte Name	Result	Low Limit	High Limit	Corrective Action
Continuing Calibration Recovery	13C2-8:2 FTS	148	70	130	native in control
	13C2-6:2 FTS	136	70	130	native in control

Primary Review: _____

Printed: 9/14/21 19:07
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Secondary Review: _____

1st UA 09/15/21
2nd 09/16/21

Quantitation Report

Data File:	J:\LCMS06\Data\210914_B1\210914_018	**Instrument:**	K-LCMS-06
Acqu Date:	9/14/21 14:03	**Vial:**	4
Run Type:	LCS	**Dilution:**	1
Lab ID:	KQ2115544-05	**Raw Units:**	ng/mL

Bottle ID:		**Tier:**	III	**Matrix:**	Soil
Prod Code:	PFAS	**Collect Date:**		**Receive Date:**	8/11/21

Analysis Lot:	738712	**Prep Lot:**	385318	**Report Group:**	KQ2115544
Analysis	PFC/537M	**Prep Method:**	ALS SOP		
		Prep Date:	8/31/21		

Title:	Per- and Polyfluoroalkyl Substances (PFAS) by LC/MS/MS	**Calibration ID:**	KC2100481
		Report List ID:	19837

Internal Standard Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	Area Criteria
13C7-PFUnDA	5.120	0.00	5123384	5.0000	OK

Surrogate Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	% Rec	% Rec Criteria	Rpt?
13C3-PFBS	4.023	-0.01	504070	4.5251	91	33 - 109	Y
18O2-PFHxS	4.406	-0.01	389892	4.9072	98	36 - 120	Y
13C4-PFOS	4.742	0.00	475486	4.3793	88	32 - 130	Y
13C4-PFBA	3.392	-0.01	1729505	4.3277	87	34 - 116	Y
13C5-PFPeA	3.968	-0.01	1029943	4.5095	90	39 - 133	Y
13C2-PFHxA	4.225	0.00	2914298	4.4968	90	32 - 136	Y
13C4-PFHpA	4.406	-0.01	2865144	4.8749	97	36 - 133	Y
13C4-PFOA	4.580	0.00	3384353	4.3072	86	31 - 134	Y
13C5-PFNA	4.754	0.00	3222144	4.7597	95	27 - 133	Y
13C2-PFDA	4.941	0.00	2290690	4.8670	97	30 - 137	Y
13C2-PFUnDA	5.121	0.00	3269071	4.6065	92	32 - 146	Y
13C2-PFDoDA	5.288	0.00	3385545	4.3250	87	36 - 136	Y
13C2-PFTeDA	5.591	0.00	3186363	4.0569	81	39 - 138	Y
13C8-FOSA	5.223	0.00	1476839	4.5319	91	40 - 132	Y
D3-MeFOSA	5.597	0.00	284803	3.8951	78	51 - 132	Y
D5-EtFOSA	5.717	0.00	351412	4.1254	83	49 - 123	Y
D7-MeFOSE	5.573	0.00	407439	3.6188	72	53 - 125	Y
D9-EtFOSE	5.691	0.00	442248	4.1478	83	45 - 121	Y
13C2-6:2 FTS	4.569	0.00	616403	6.0181	120	30 - 140	Y
13C2-8:2 FTS	4.939	0.00	478817	6.4307	129	9 - 171	Y

Target Compounds

Final Conc.Units: ng/g

Parameter Name	RT	RT Dev	Response	Solution Conc	Final Conc	Q	Rpt?

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

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1st UA 09/15/21

2nd 09/16/21

Data File:	J:\LCMS06\Data\210914_B1\210914_018	**Instrument:**	K-LCMS-06
Acqu Date:	9/14/21 14:03	**Vial:**	4
Run Type:	LCS	**Dilution:**	1
Lab ID:	KQ2115544-05	**Raw Units:**	ng/mL

Target Compounds

Final Conc.Units: ng/g

Parameter Name	RT	RT Dev	Response	Solution Conc	Final Conc	Q	Rpt?
Perfluorobutane sulfonic acid (PFBS)	4.023	-0.01	154838	0.9074	7.26		Y
Perfluorohexane sulfonic acid (PFHxS)	4.401	-0.01	110615	0.8634	6.91		Y
Perfluoroheptane sulfonic acid (PFHpS)	4.571	0.00	131452	0.9812	7.85		Y
Perfluorooctane sulfonic acid (PFOS)	4.742	0.00	95777	1.0763	8.61		Y
Perfluorodecane sulfonic acid (PFDS)	5.100	0.00	131284	1.1727	9.38		Y
Perfluorobutanoic acid (PFBA)	3.393	-0.01	424364	1.0898	8.72		Y
Perfluoropentanoic acid (PFPeA)	3.969	-0.01	749746	1.1627	9.30		Y
Perfluorohexanoic acid (PFHxA)	4.225	0.00	812168	1.0666	8.53		Y
Perfluoroheptanoic acid (PFHpA)	4.406	-0.01	656798	0.9502	7.60		Y
Perfluorooctanoic acid (PFOA)	4.580	0.00	1027737	1.1076	8.86		Y
Perfluorononanoic acid (PFNA)	4.752	0.00	708637	1.0635	8.51		Y
Perfluorodecanoic acid (PFDA)	4.941	0.00	709712	1.0990	8.79		Y
Perfluoroundecanoic acid (PFUnDA)	5.120	0.00	772917	1.0682	8.55		Y
Perfluorododecanoic acid (PFDoDA)	5.288	0.00	729939	1.2106	9.68		Y
Perfluorotridecanoic acid (PFTrDA)	5.444	0.00	823417	1.2657	10.1		Y
Perfluorotetradecanoic acid (PFTeDA)	5.591	0.00	702572	0.9959	7.97		Y
Perfluorooctane sulfonamide (FOSA)	5.224	0.00	367032	1.0363	8.29		Y
N-Methyl perfluorooctane sulfonamide (MeFOSA)	5.599	0.00	124777	1.1508	9.21		Y
N-Ethyl perfluorooctane sulfonamide (EtFOSA)	5.721	0.00	21368	1.0033	8.03		Y
N-Methyl perfluorooctane sulfonamidoethanol	5.581	0.00	172079	1.1750	9.40		Y
N-Ethyl perfluorooctane sulfonamidoethanol	5.700	0.00	160074	1.0443	8.35		Y
6:2 Fluorotelomer sulfonic acid (6:2 FTS)	4.567	0.00	177048	1.1008	8.81		Y
8:2 Fluorotelomer sulfonic acid (8:2 FTS)	4.939	0.00	93508	1.0222	8.18		Y

Prep Amount:	1 g	**Dilution:**	1
Prep Final Amount:	8.00 mL	**Basis Factor:**	100.00

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

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Insight Report
Quantitation/Integration
Printed 9/14/2021 18:48:54

210914_018

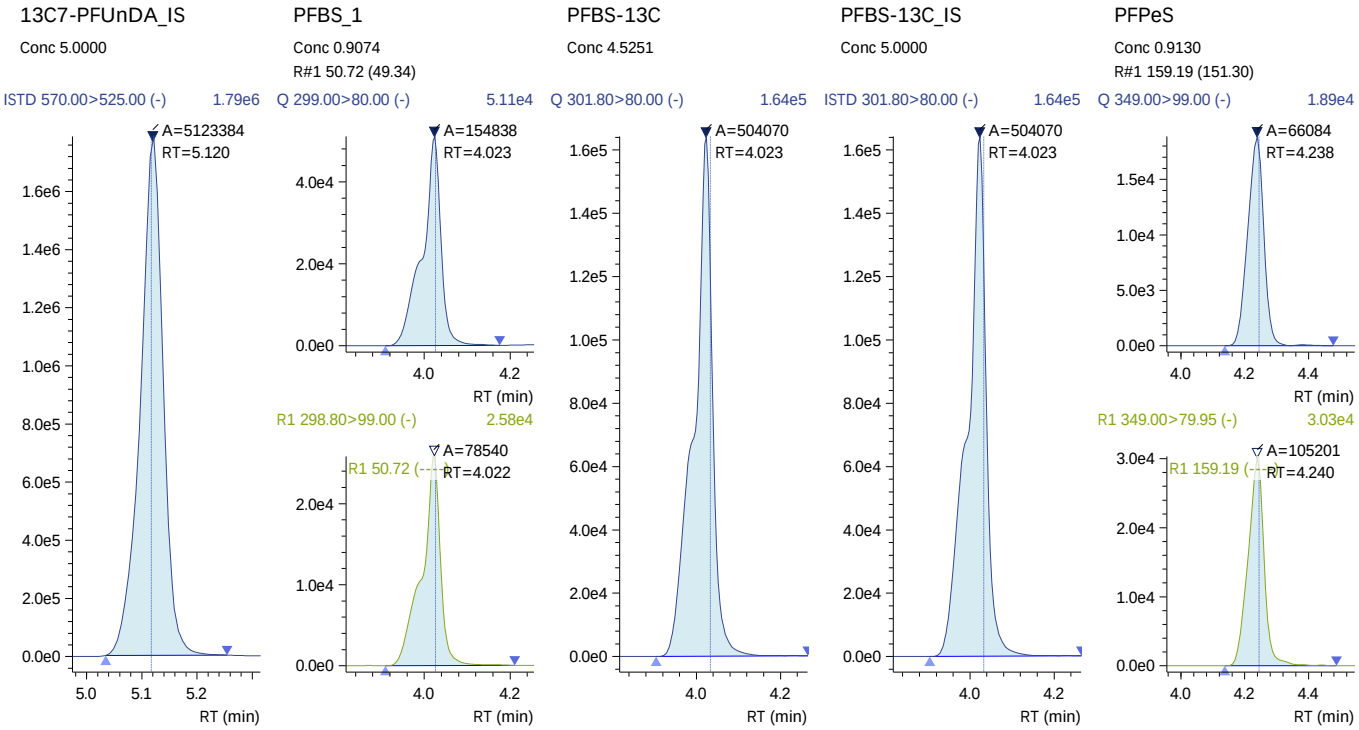
Sample ID: KQ2115544-05
Date Acquired: 9/14/2021 2:03:05 PM
Acquired by: System Administrator
Data File: 210914_018
Vial: 2 | Inj. Volume: 15.0000uL | Tray: 3

Name	Mode ID	Found RT	Area	ISTD Area	ISTD Name	Std. Conc.	Conc.	Unit
13C7-PFUnDA_IS	Auto	5.120	5123384	5123384	----	5.0000	5.0000	ng/mL
PFBS_1	Auto	4.023	154838	504070	PFBS-13C_IS	0.8874	0.9074	ng/mL
PFBS-13C	Auto	4.023	504070	5123384	13C7-PFUnDA_IS	5.0000	4.5251	ng/mL
PFBS-13C_IS	Auto	4.023	504070	504070	----	5.0000	5.0000	ng/mL
PFPeS	Auto	4.238	66084	504070	PFBS-13C_IS	0.9409	0.9130	ng/mL
PFHxS_1	Auto	4.401	110615	389892	PFHxS-18O_IS	0.9131	0.8634	ng/mL
PFHxS-18O	Auto	4.406	389892	5123384	13C7-PFUnDA_IS	5.0000	4.9072	ng/mL
PFHxS-18O_IS	Auto	4.406	389892	389892	----	5.0000	5.0000	ng/mL
PFHpS_1	Auto	4.571	131452	389892	PFHxS-18O_IS	0.9534	0.9812	ng/mL
PFOS_1	Auto	4.742	95777	475486	PFOS-13C_IS	0.9292	1.0763	ng/mL
PFOS-13C	Auto	4.742	475486	5123384	13C7-PFUnDA_IS	5.0000	4.3793	ng/mL
PFOS-13C_IS	Auto	4.742	475486	475486	----	5.0000	5.0000	ng/mL
PFNS	Auto	4.924	69239	475486	PFOS-13C_IS	0.9616	1.0714	ng/mL
PFDS_1	Auto	5.100	131284	475486	PFOS-13C_IS	0.9647	1.1727	ng/mL
PFBA	Auto	3.393	424364	1729505	PFBA-13C_IS	1.0000	1.0898	ng/mL
PFBA-13C	Auto	3.392	1729505	5123384	13C7-PFUnDA_IS	5.0000	4.3277	ng/mL
PFBA-13C_IS	Auto	3.392	1729505	1729505	----	5.0000	5.0000	ng/mL
PFPeA	Auto	3.969	749746	1029943	PFPeA-13C_IS	1.0000	1.1627	ng/mL
PFPeA-13C	Auto	3.968	1029943	5123384	13C7-PFUnDA_IS	5.0000	4.5095	ng/mL
PFPeA-13C_IS	Auto	3.968	1029943	1029943	----	5.0000	5.0000	ng/mL
PFHxA	Auto	4.225	812168	2914298	PFHxA-13C_IS	1.0000	1.0666	ng/mL
PFHxA-13C	Auto	4.225	2914298	5123384	13C7-PFUnDA_IS	5.0000	4.4968	ng/mL
PFHxA-13C_IS	Auto	4.225	2914298	2914298	----	5.0000	5.0000	ng/mL
PFHpA	Auto	4.406	656798	2865144	PFHpA-13C_IS	1.0000	0.9502	ng/mL
PFHpA-13C	Auto	4.406	2865144	5123384	13C7-PFUnDA_IS	5.0000	4.8749	ng/mL
PFHpA-13C_IS	Auto	4.406	2865144	2865144	----	5.0000	5.0000	ng/mL
PFOA	Auto	4.580	1027737	3384353	PFOA-13C_IS	1.0000	1.1076	ng/mL
PFOA-13C	Auto	4.580	3384353	5123384	13C7-PFUnDA_IS	5.0000	4.3072	ng/mL
PFOA-13C_IS	Auto	4.580	3384353	3384353	----	5.0000	5.0000	ng/mL
PFNA	Auto	4.752	708637	3222144	PFNA-13C_IS	1.0000	1.0635	ng/mL
PFNA-13C	Auto	4.754	3222144	5123384	13C7-PFUnDA_IS	5.0000	4.7597	ng/mL
PFNA-13C_IS	Auto	4.754	3222144	3222144	----	5.0000	5.0000	ng/mL
PFDA	Auto	4.941	709712	2290690	PFDA-13C_IS	1.0000	1.0990	ng/mL
PFDA-13C	Auto	4.941	2290690	5123384	13C7-PFUnDA_IS	5.0000	4.8670	ng/mL
PFDA-13C_IS	Auto	4.941	2290690	2290690	----	5.0000	5.0000	ng/mL
PFUnA	Auto	5.120	772917	3269071	PFUnA-13C_IS	1.0000	1.0682	ng/mL
PFUnA-13C	Auto	5.121	3269071	5123384	13C7-PFUnDA_IS	5.0000	4.6065	ng/mL
PFUnA-13C_IS	Auto	5.121	3269071	3269071	----	5.0000	5.0000	ng/mL
PFDoA	Auto	5.288	729939	3385545	PFDoA-13C_IS	1.0000	1.2106	ng/mL
PFDoA-13C	Auto	5.288	3385545	5123384	13C7-PFUnDA_IS	5.0000	4.3250	ng/mL
PFDoA-13C_IS	Auto	5.288	3385545	3385545	----	5.0000	5.0000	ng/mL
PFTrDA	Auto	5.444	823417	3186363	PFTeDA-13C_IS	1.0000	1.2657	ng/mL
PFTeDA	Auto	5.591	702572	3186363	PFTeDA-13C_IS	1.0000	0.9959	ng/mL
PFTeDA-13C	Auto	5.591	3186363	5123384	13C7-PFUnDA_IS	5.0000	4.0569	ng/mL
PFTeDA-13C_IS	Auto	5.591	3186363	3186363	----	5.0000	5.0000	ng/mL
FOSA	Auto	5.224	367032	1476839	FOSA-13C_IS	1.0000	1.0363	ng/mL
FOSA-13C	Auto	5.223	1476839	5123384	13C7-PFUnDA_IS	5.0000	4.5319	ng/mL
FOSA-13C_IS	Auto	5.223	1476839	1476839	----	5.0000	5.0000	ng/mL
N-MeFOSA	Auto	5.599	124777	284803	N-MeFOSA-d3_IS	1.0000	1.1508	ng/mL
N-MeFOSA-d3	Auto	5.597	284803	5123384	13C7-PFUnDA_IS	5.0000	3.8951	ng/mL
N-MeFOSA-d3_IS	Auto	5.597	284803	284803	----	5.0000	5.0000	ng/mL
N-EtFOSA	Auto	5.721	21368	351412	N-EtFOSA-d9_IS	1.0000	1.0033	ng/mL
N-EtFOSA-d9	Auto	5.717	351412	5123384	13C7-PFUnDA_IS	5.0000	4.1254	ng/mL
N-EtFOSA-d9_IS	Auto	5.717	351412	351412	----	5.0000	5.0000	ng/mL

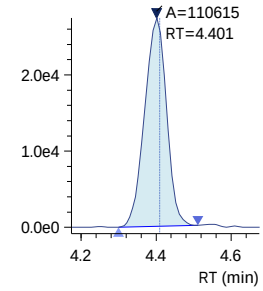
210914_018 (continued)

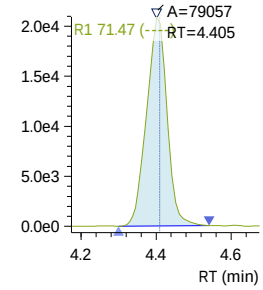
(Table continued from previous page)

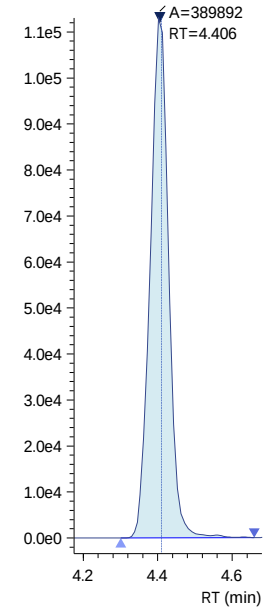
Name	Mode ID	Found RT	Area	ISTD Area	ISTD Name	Std. Conc.	Conc.	Unit
N-MeFOSE	Auto	5.581	172079	407439	N-MeFOSE-d7_IS	1.0000	1.1750	ng/mL
N-MeFOSE-d7	Auto	5.573	407439	5123384	13C7-PFUnDA_IS	5.0000	3.6188	ng/mL
N-MeFOSE-d7_IS	Auto	5.573	407439	407439	----	5.0000	5.0000	ng/mL
N-EtFOSE	Auto	5.700	160074	442248	N-EtFOSE-d9_IS	1.0000	1.0443	ng/mL
N-EtFOSE-d9	Auto	5.691	442248	5123384	13C7-PFUnDA_IS	5.0000	4.1478	ng/mL
N-EtFOSE-d9_IS	Auto	5.691	442248	442248	----	5.0000	5.0000	ng/mL
N-MeFOSAA	Auto	5.041	90314	449328	N-MeFOSAA-d3_IS	1.0000	1.2104	ng/mL
N-MeFOSAA-d3	Auto	5.037	449328	5123384	13C7-PFUnDA_IS	5.0000	3.4738	ng/mL
N-MeFOSAA-d3_IS	Auto	5.037	449328	449328	----	5.0000	5.0000	ng/mL
N-EtFOSAA	Auto	5.135	62229	402732	N-EtFOSAA-d5_IS	1.0000	1.0413	ng/mL
N-EtFOSAA-d5	Auto	5.132	402732	5123384	13C7-PFUnDA_IS	5.0000	3.6820	ng/mL
N-EtFOSAA-d5_IS	Auto	5.132	402732	402732	----	5.0000	5.0000	ng/mL
4_2-FTS_1	Auto	4.200	115258	496181	4_2-FTS-13C_IS	0.9372	1.2865	ng/mL
4_2-FTS-13C	Auto	4.200	496181	5123384	13C7-PFUnDA_IS	5.0000	4.0929	ng/mL
4_2-FTS-13C_IS	Auto	4.200	496181	496181	----	5.0000	5.0000	ng/mL
6_2-FTS_1	Auto	4.567	177048	616403	6_2-FTS-13C_IS	0.9512	1.1008	ng/mL
6_2-FTS-13C	Auto	4.569	616403	5123384	13C7-PFUnDA_IS	5.0000	6.0181	ng/mL
6_2-FTS-13C_IS	Auto	4.569	616403	616403	----	5.0000	5.0000	ng/mL
8_2-FTS_1	Auto	4.939	93508	478817	8_2-FTS-13C_IS	0.9600	1.0222	ng/mL
8_2-FTS-13C	Auto	4.939	478817	5123384	13C7-PFUnDA_IS	5.0000	6.4307	ng/mL
8_2-FTS-13C_IS	Auto	4.939	478817	478817	----	5.0000	5.0000	ng/mL
10_2-FtS_1	Auto	5.294	71982	478817	8_2-FTS-13C_IS	0.9662	0.9693	ng/mL
HFPO_DA	Auto	4.292	118074	565007	HFPO_DA-13C_IS	1.0000	1.0453	ng/mL
HFPO_DA-13C	Auto	4.292	565007	5123384	13C7-PFUnDA_IS	5.0000	5.1465	ng/mL
HFPO_DA-13C_IS	Auto	4.292	565007	565007	----	5.0000	5.0000	ng/mL

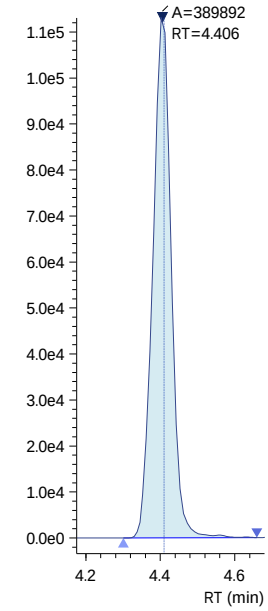


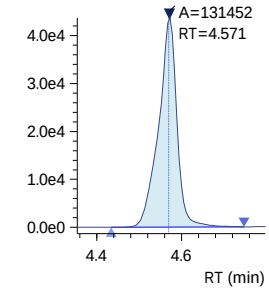
210914_018 (continued)

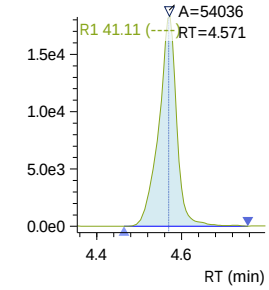
PFHxS_1
Conc 0.8634
R#1 71.47 (62.92)
Q 399.00>80.00 (-) 2.75e4


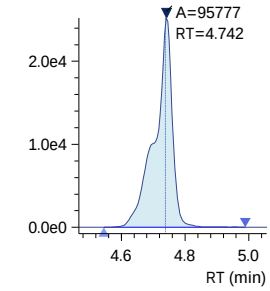
R1 399.00>99.00 (-) 2.09e4


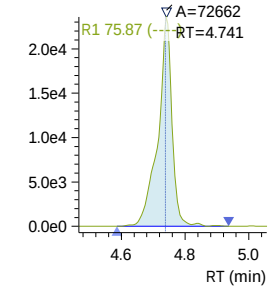
PFHxS-18O
Conc 4.9072
Q 402.70>84.05 (-) 1.13e5


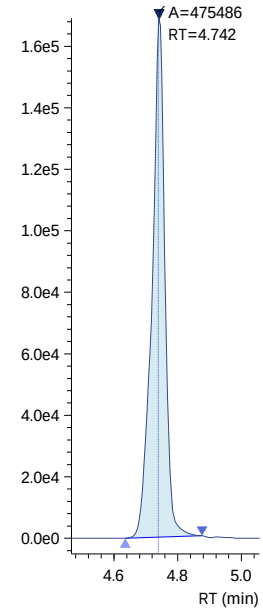
PFHxS-18O_IS
Conc 5.0000
ISTD 402.70>84.05 (-) 1.13e5


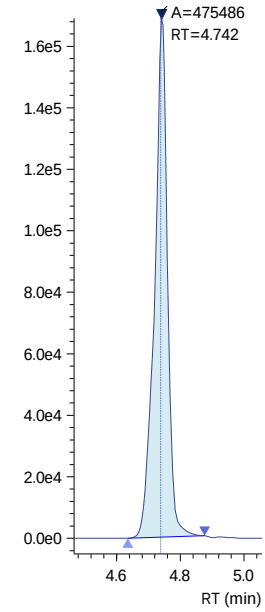
PFHpS_1
Conc 0.9812
R#1 41.11 (40.53)
Q 449.00>80.15 (-) 4.37e4


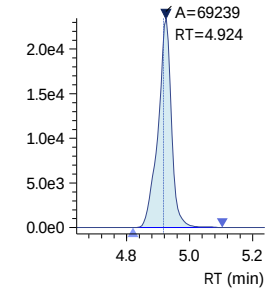
R1 449.00>99.20 (-) 1.83e4


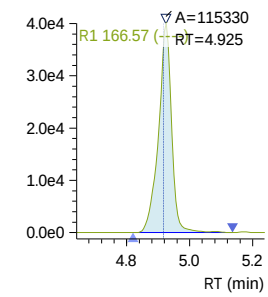
PFOS_1
Conc 1.0763
R#1 75.87 (73.81)
Q 499.00>80.00 (-) 2.52e4


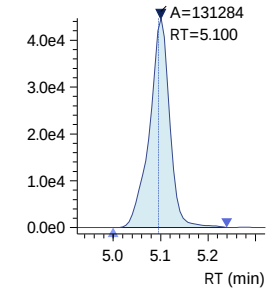
R1 499.00>99.00 (-) 2.36e4


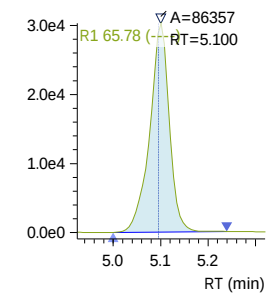
PFOS-13C
Conc 4.3793
Q 502.80>80.05 (-) 1.69e5


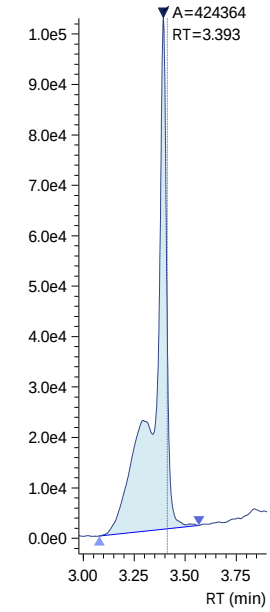
PFOS-13C_IS
Conc 5.0000
ISTD 502.80>80.05 (-) 1.69e5


PFNS
Conc 1.0714
R#1 166.57 (160.25)
Q 549.00>99.00 (-) 2.35e4


R1 549.00>79.95 (-) 4.01e4


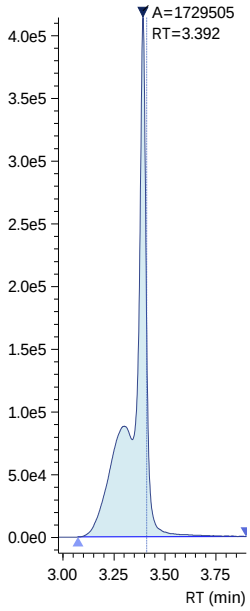
PFDS_1
Conc 1.1727
R#1 65.78 (72.12)
Q 599.00>79.90 (-) 4.47e4


R1 599.00>99.10 (-) 3.03e4


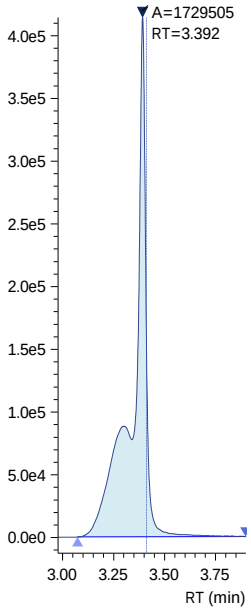
PFBA
Conc 1.0898
Q 213.00>169.10 (-) 1.03e5


210914_018 (continued)

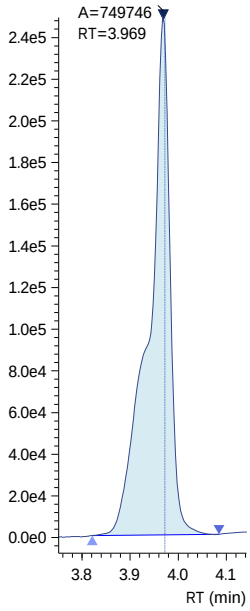
PFBA-13C
Conc 4.3277
Q 216.90>172.15 (-) 4.14e5



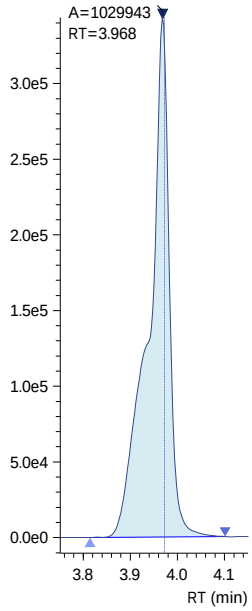
PFBA-13C_IS
Conc 5.0000
ISTD 216.90>172.15 (-) 4.14e5



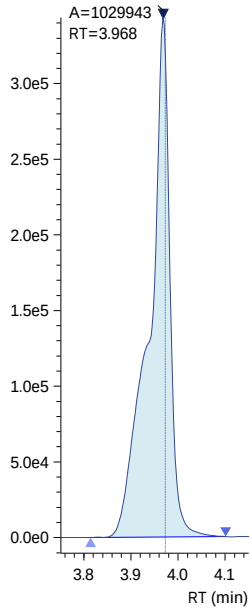
PFPeA
Conc 1.1627
Q 263.05>219.10 (-) 2.50e5



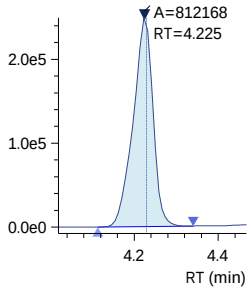
PFPeA-13C
Conc 4.5095
Q 267.90>223.00 (-) 3.44e5



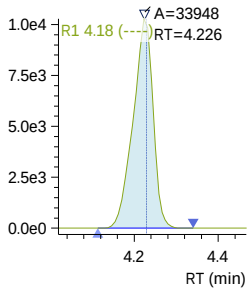
PFPeA-13C_IS
Conc 5.0000
ISTD 267.90>223.00 (-) 3.44e5



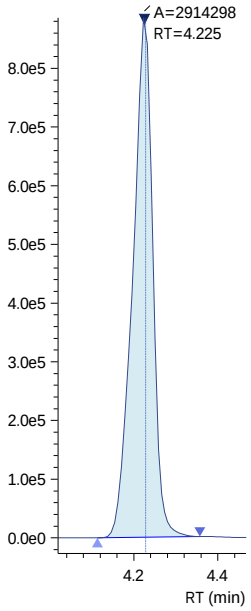
PFHxA
Conc 1.0666
R#1 4.18 (4.40)
Q 313.00>269.00 (-) 2.49e5



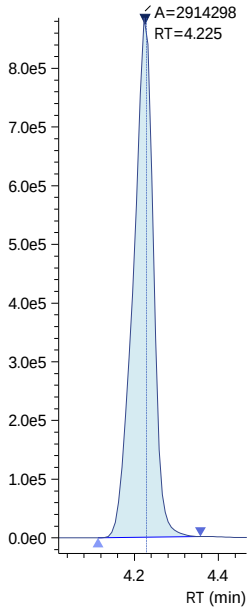
R1 313.00>119.10 (-) 1.03e4



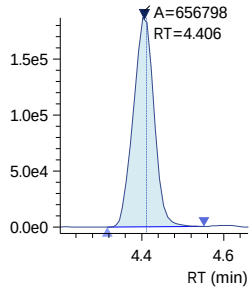
PFHxA-13C
Conc 4.4968
Q 314.90>270.10 (-) 8.86e5



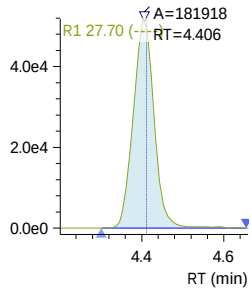
PFHxA-13C_IS
Conc 5.0000
ISTD 314.90>270.10 (-) 8.86e5



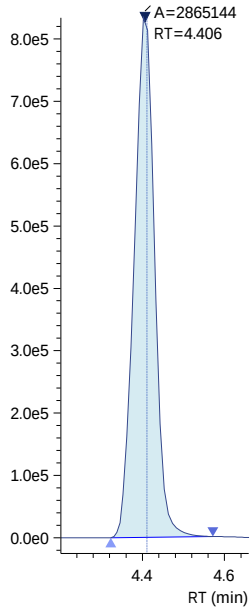
PFHpA
Conc 0.9502
R#1 27.70 (24.40)
Q 362.90>319.00 (-) 1.87e5



R1 362.90>169.00 (-) 5.18e4

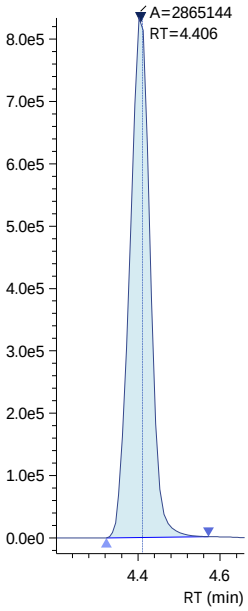


PFHpA-13C
Conc 4.8749
Q 366.90>322.10 (-) 8.34e5

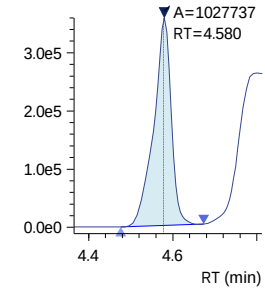


210914_018 (continued)

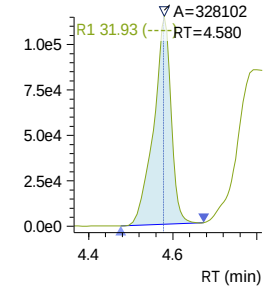
PFHpA-13C_IS
Conc 5.0000
ISTD 366.90>322.10 (-) 8.34e5



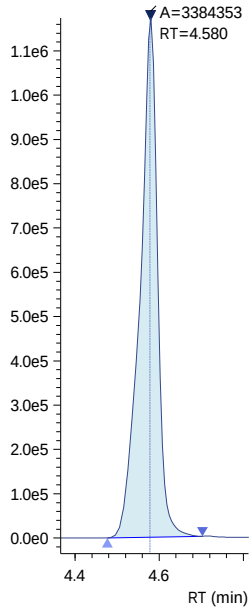
PFOA
Conc 1.1076
R#1 31.93 (31.89)
Q 413.00>369.00 (-) 3.60e5



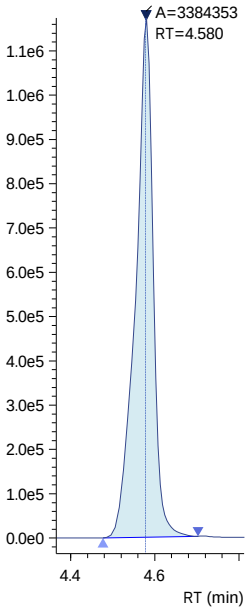
R1 413.00>169.10 (-) 1.15e5



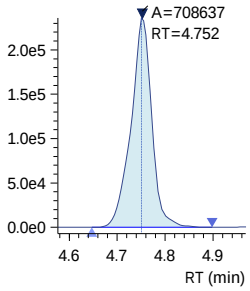
PFOA-13C
Conc 4.3072
Q 416.80>372.05 (-) 1.17e6



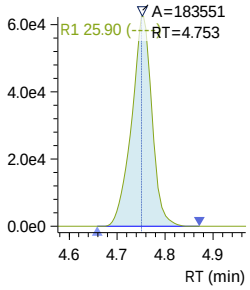
PFOA-13C_IS
Conc 5.0000
ISTD 416.80>372.05 (-) 1.17e6



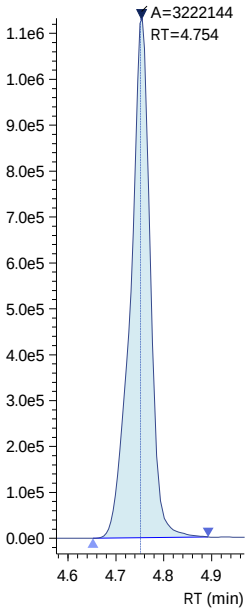
PFNA
Conc 1.0635
R#1 25.90 (23.25)
Q 463.00>418.90 (-) 2.36e5



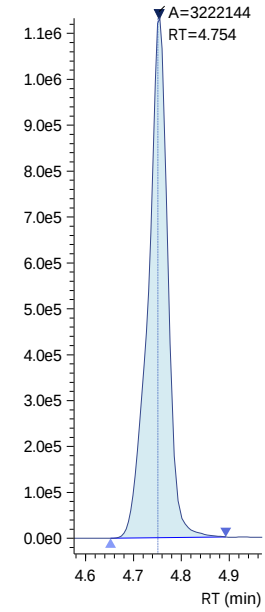
R1 463.00>219.00 (-) 6.22e4



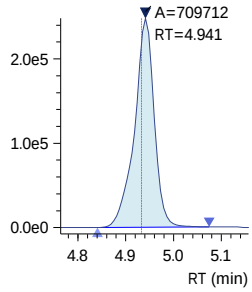
PFNA-13C
Conc 4.7597
Q 467.80>423.00 (-) 1.13e6



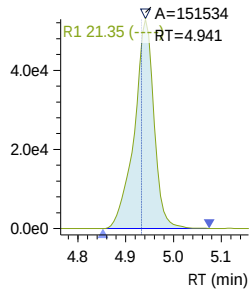
PFNA-13C_IS
Conc 5.0000
ISTD 467.80>423.00 (-) 1.13e6



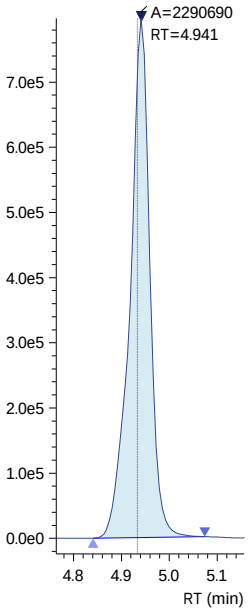
PFDA
Conc 1.0990
R#1 21.35 (20.24)
Q 513.00>468.80 (-) 2.48e5



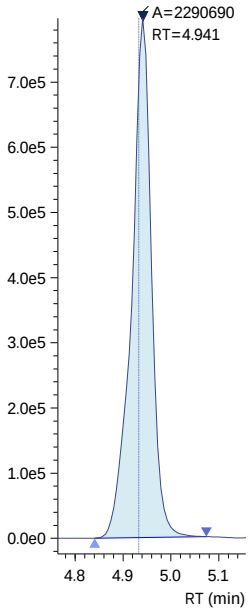
R1 513.00>219.10 (-) 5.29e4



PFDA-13C
Conc 4.8670
Q 514.80>469.95 (-) 7.98e5

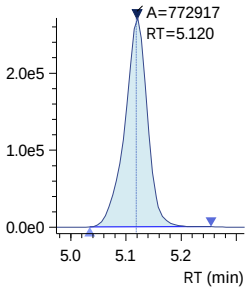


PFDA-13C_IS
Conc 5.0000
ISTD 514.80>469.95 (-) 7.98e5

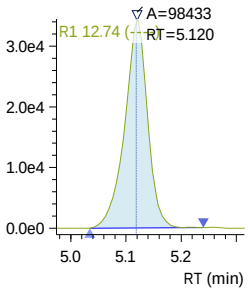


210914_018 (continued)

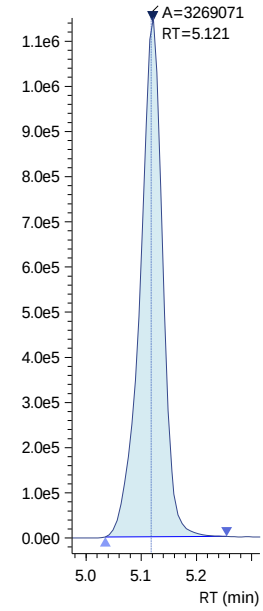
PFUnA
Conc 1.0682
R#1 12.74 (12.46)
Q 563.00>518.90 (-) 2.72e5



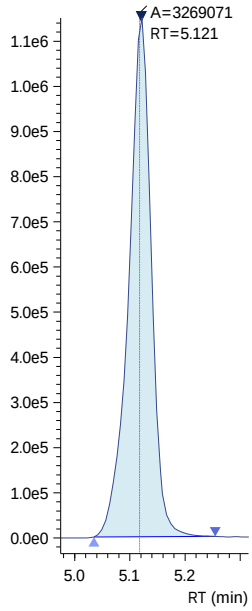
R1 563.00>219.00 (-) 3.45e4



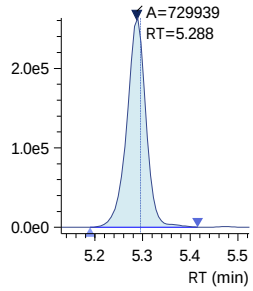
PFUnA-13C
Conc 4.6065
Q 564.80>519.95 (-) 1.15e6



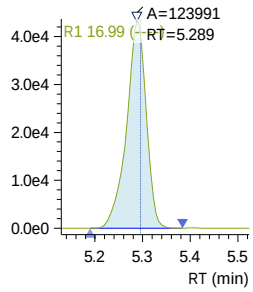
PFUnA-13C_IS
Conc 5.0000
ISTD 564.80>519.95 (-) 1.15e6



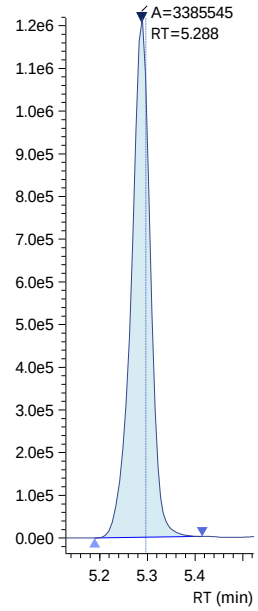
PFDoA
Conc 1.2106
R#1 16.99 (16.50)
Q 613.05>569.00 (-) 2.63e5



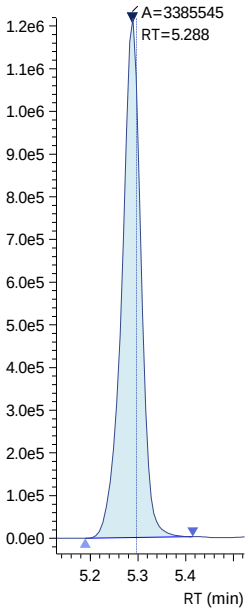
R1 613.05>169.00 (-) 4.36e4



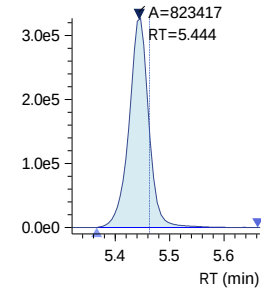
PFDoA-13C
Conc 4.3250
Q 614.80>569.95 (-) 1.22e6



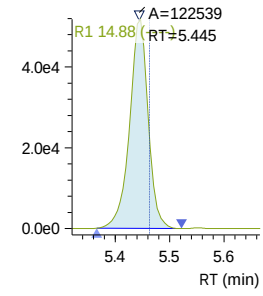
PFDoA-13C_IS
Conc 5.0000
ISTD 614.80>569.95 (-) 1.22e6



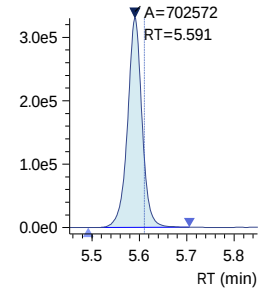
PFTrDA
Conc 1.2657
R#1 14.88 (15.29)
Q 663.00>618.90 (-) 3.27e5



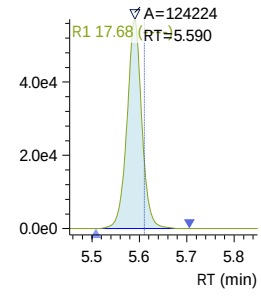
R1 662.90>169.00 (-) 5.18e4



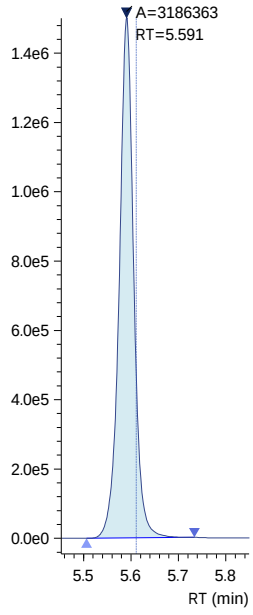
PFTeDA
Conc 0.9959
R#1 17.68 (17.47)
Q 713.00>669.00 (-) 3.30e5



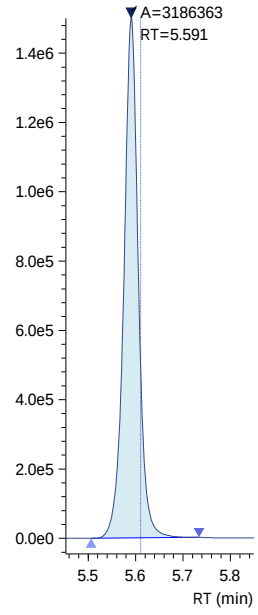
R1 713.00>169.10 (-) 5.72e4



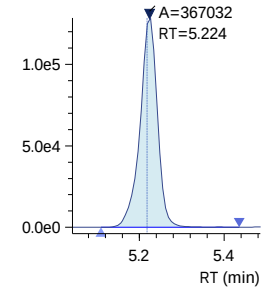
PFTeDA-13C
Conc 4.0569
Q 714.70>669.90 (-) 1.50e6

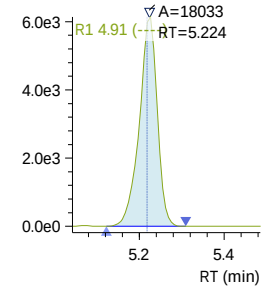


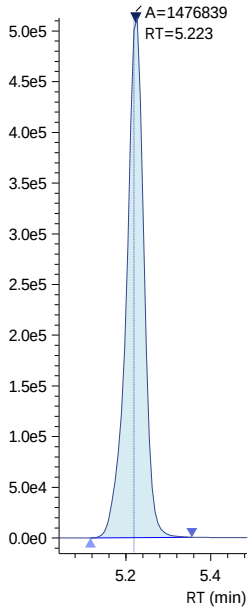
PFTeDA-13C_IS
Conc 5.0000
ISTD 714.70>669.90 (-) 1.50e6

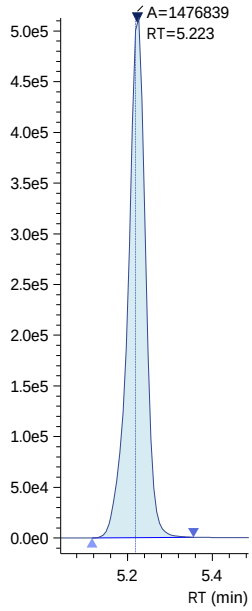


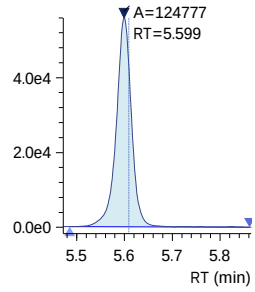
210914_018 (continued)

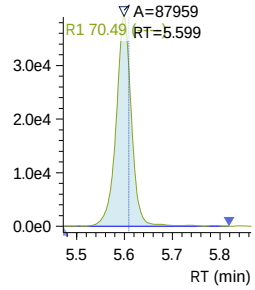
FOSA
Conc 1.0363
R#1 4.91 (5.19)
Q 498.20>78.00 (-) 1.28e5


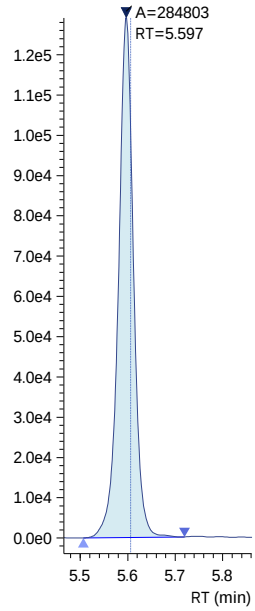
R1 498.20>64.10 (-) 6.14e3


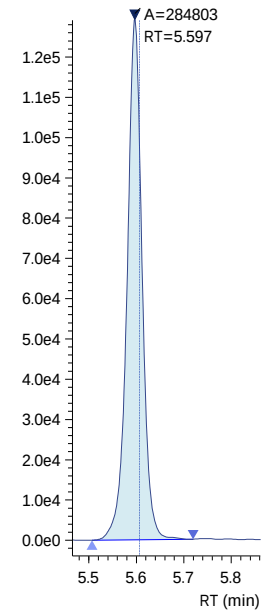
FOSA-13C
Conc 4.5319
Q 506.00>78.05 (-) 5.13e5


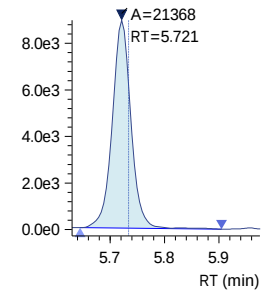
FOSA-13C_IS
Conc 5.0000
ISTD 506.00>78.05 (-) 5.13e5


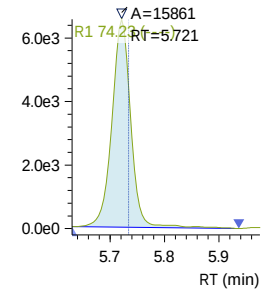
N-MeFOSA
Conc 1.1508
R#1 70.49 (69.94)
Q 512.00>169.10 (-) 5.60e4


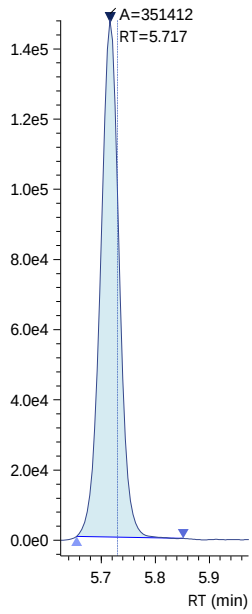
R1 512.00>219.00 (-) 3.91e4


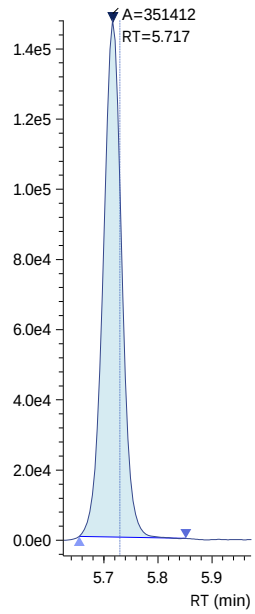
N-MeFOSA-d3
Conc 3.8951
Q 514.90>168.90 (-) 1.29e5


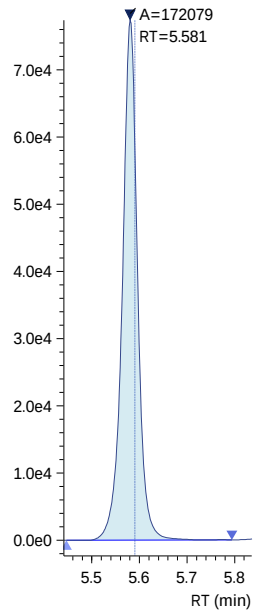
N-MeFOSA-d3_IS
Conc 5.0000
ISTD 514.90>168.90 (-) 1.29e5


N-EtFOSA
Conc 1.0033
R#1 74.23 (66.52)
Q 526.90>169.10 (-) 8.99e3


R1 526.90>219.00 (-) 6.59e3


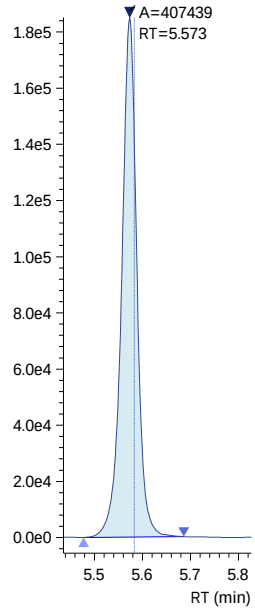
N-EtFOSA-d9
Conc 4.1254
Q 530.90>169.15 (-) 1.48e5


N-EtFOSA-d9_IS
Conc 5.0000
ISTD 530.90>169.15 (-) 1.48e5


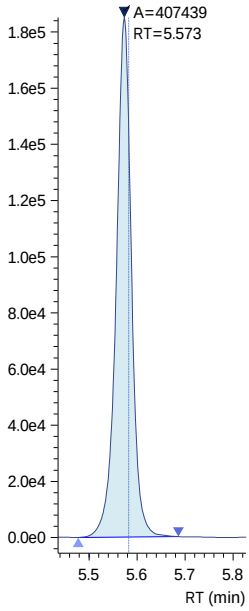
N-MeFOSE
Conc 1.1750
Q 616.00>59.00 (-) 7.74e4


210914_018 (continued)

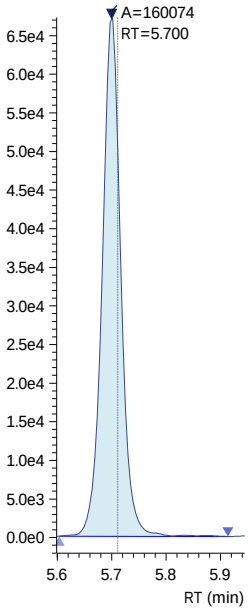
N-MeFOSE-d7
Conc 3.6188
Q 622.70>59.10 (-) 1.85e5



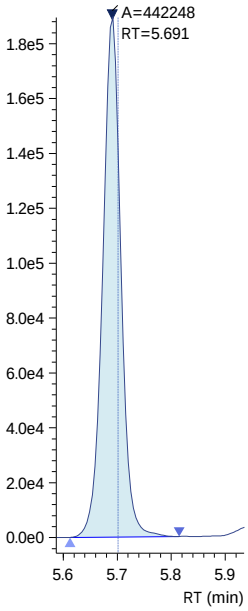
N-MeFOSE-d7_IS
Conc 5.0000
ISTD 622.70>59.10 (-) 1.85e5



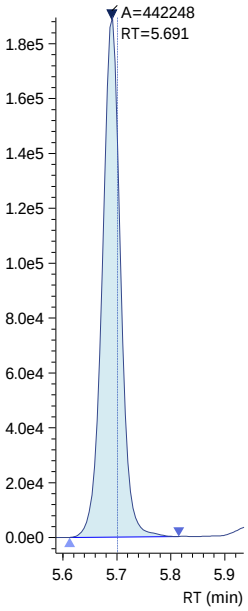
N-EtFOSE
Conc 1.0443
Q 630.00>58.90 (-) 6.73e4



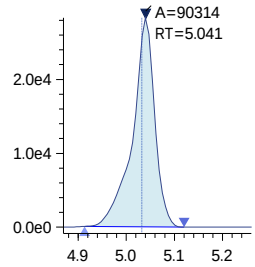
N-EtFOSE-d9
Conc 4.1478
Q 638.70>59.10 (-) 1.90e5



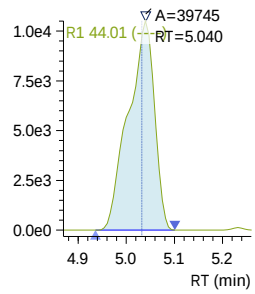
N-EtFOSE-d9_IS
Conc 5.0000
ISTD 638.70>59.10 (-) 1.90e5



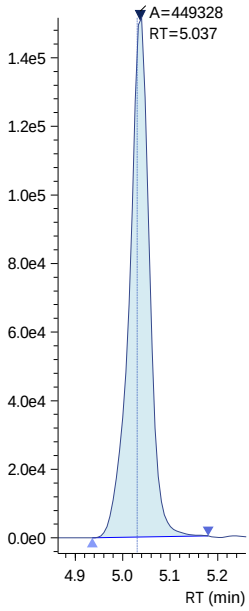
N-MeFOSAA
Conc 1.2104
R#1 44.01 (39.56)
Q 570.20>419.00 (-) 2.83e4



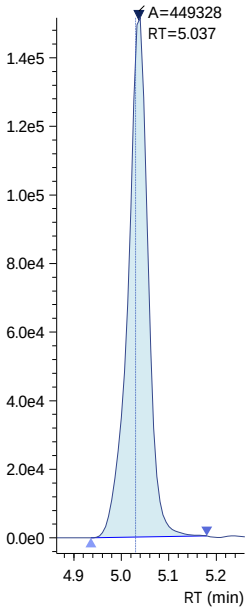
R1 570.20>512.00 (-) 1.05e4



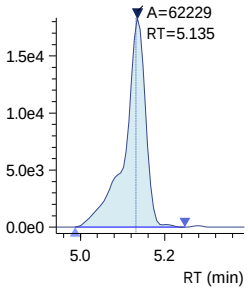
N-MeFOSAA-d3
Conc 3.4738
Q 572.80>419.05 (-) 1.52e5



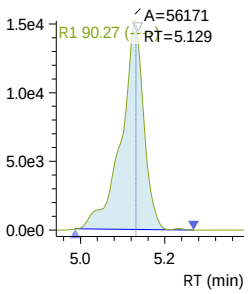
N-MeFOSAA-d3_IS
Conc 5.0000
ISTD 572.80>419.05 (-) 1.52e5



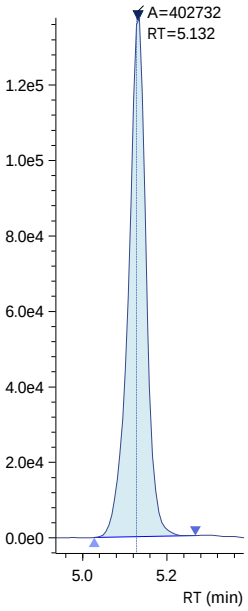
N-EtFOSAA
Conc 1.0413
R#1 90.27 (84.54)
Q 584.20>418.95 (-) 1.83e4



R1 584.20>526.10 (-) 1.52e4

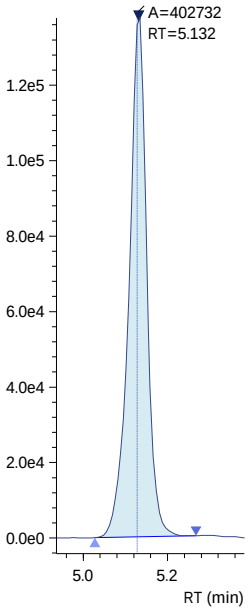


N-EtFOSAA-d5
Conc 3.6820
Q 588.80>419.00 (-) 1.38e5

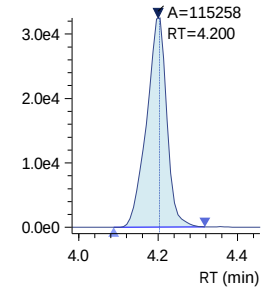


210914_018 (continued)

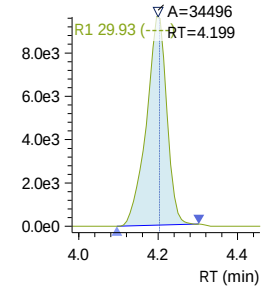
N-EtFOSAA-d5_IS
Conc 5.0000
ISTD 588.80>419.00 (-) 1.38e5



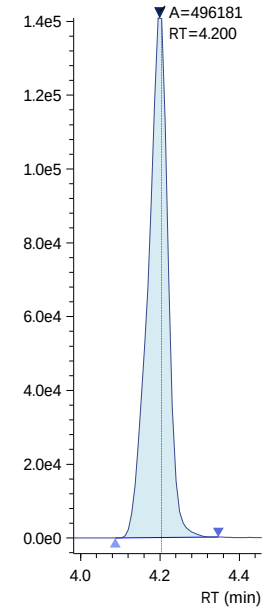
4_2-FTS_1
Conc 1.2865
R#1 29.93 (34.12)
Q 327.00>307.05 (-) 3.25e4



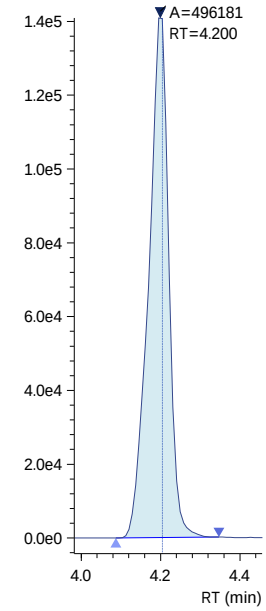
R1 327.00>81.10 (-) 9.66e3



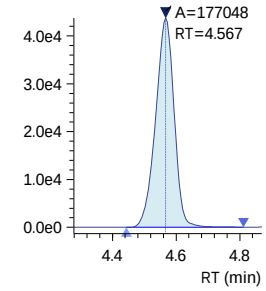
4_2-FTS-13C
Conc 4.0929
Q 328.80>309.05 (-) 1.41e5



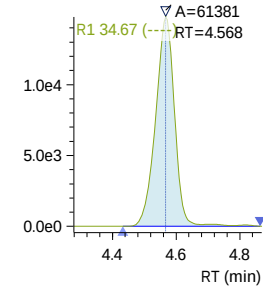
4_2-FTS-13C_IS
Conc 5.0000
ISTD 328.80>309.05 (-) 1.41e5



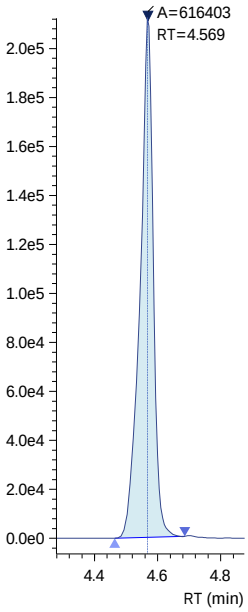
6_2-FTS_1
Conc 1.1008
R#1 34.67 (37.36)
Q 427.00>407.00 (-) 4.38e4



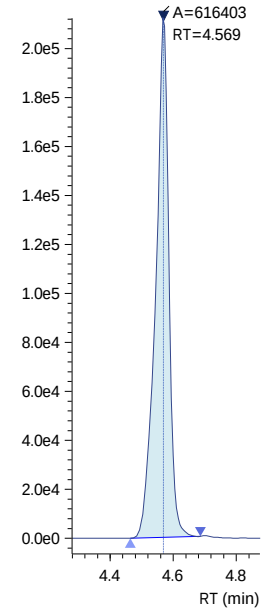
R1 427.00>80.90 (-) 1.48e4



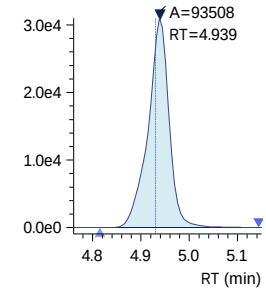
6_2-FTS-13C
Conc 6.0181
Q 428.90>409.00 (-) 2.12e5



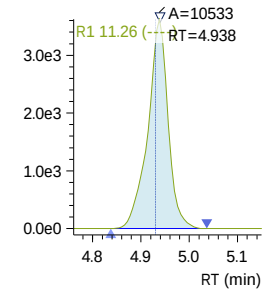
6_2-FTS-13C_IS
Conc 5.0000
ISTD 428.90>409.00 (-) 2.12e5



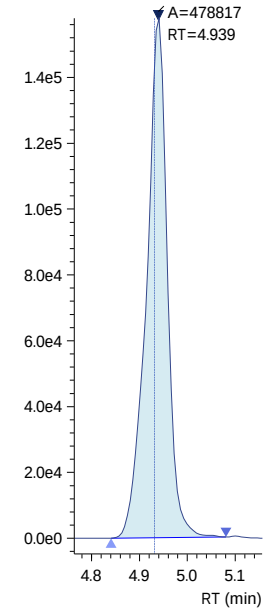
8_2-FTS_1
Conc 1.0222
R#1 11.26 (10.63)
Q 527.10>506.90 (-) 3.10e4



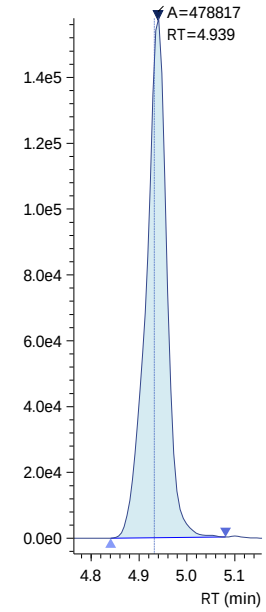
R1 527.20>487.00 (-) 3.62e3



8_2-FTS-13C
Conc 6.4307
Q 528.80>509.00 (-) 1.58e5

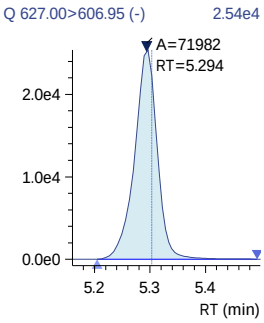


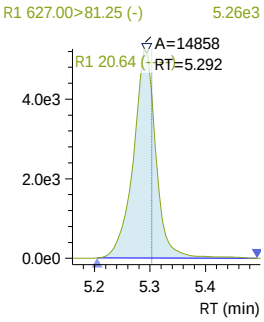
8_2-FTS-13C_IS
Conc 5.0000
ISTD 528.80>509.00 (-) 1.58e5



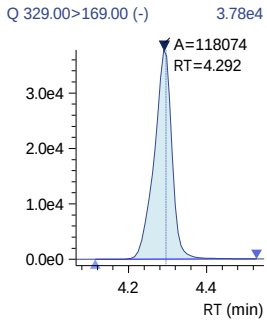
210914_018 (continued)

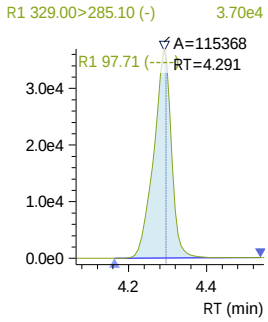
10_2-FtS_1
Conc 0.9693
R#1 20.64 (21.61)



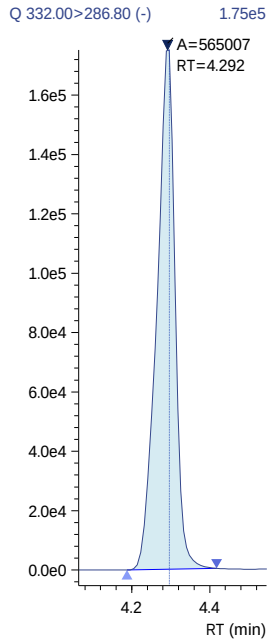


HPFO_DA
Conc 1.0453
R#1 97.71 (106.46)

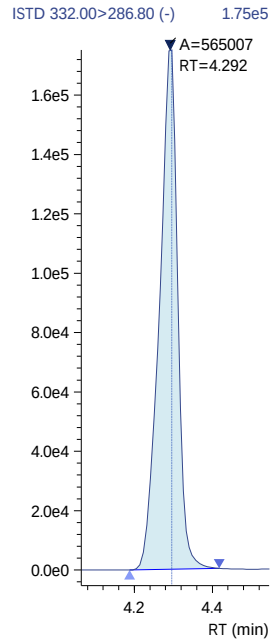




HFPO_DA-13C
Conc 5.1465



HFPO_DA-13C_IS
Conc 5.0000



1st UA 09/15/21
2nd ~~#~~ 09/16/21

Validation Report

Data File: J:\LCMS06\Data\210914_B1\210914_019
Lab ID: KQ2115544-06
RunType: DLCS
Matrix: Soil

Date Acquired: 9/14/21 14:13
Batch ID: 738712
Analysis Method: PFC/537M/PFAS

Validations

Validation Categories	Pass	Fail
Analytical Hold Time	X	
ICAL Analyte Recovery	X	
Second Source ICAL Verification	X	
Continuing Calibration Recovery		X
Internal Standards	X	
Surrogates	X	
Std MRL Unsupported by ICAL	X	
Above Highest ICAL Level	X	

Analyte Exceptions

Exception Categories	Analyte Name	Result	Low Limit	High Limit	Corrective Action
Continuing Calibration Recovery	13C2-8:2 FTS	148	70	130	native in control
	13C2-6:2 FTS	136	70	130	native in control

Primary Review: _____

Printed: 9/14/21 19:07
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Secondary Review: _____

1st UA 09/15/21
2nd 09/16/21

Quantitation Report

Data File:	J:\LCMS06\Data\210914_B1\210914_019	**Instrument:**	K-LCMS-06
Acqu Date:	9/14/21 14:13	**Vial:**	5
Run Type:	DLCS	**Dilution:**	1
Lab ID:	KQ2115544-06	**Raw Units:**	ng/mL

Bottle ID:		**Tier:**	III	**Matrix:**	Soil
Prod Code:	PFAS	**Collect Date:**		**Receive Date:**	8/11/21

Analysis Lot:	738712	**Prep Lot:**	385318	**Report Group:**	KQ2115544
Analysis	PFC/537M	**Prep Method:**	ALS SOP		
		Prep Date:	8/31/21		

Title:	Per- and Polyfluoroalkyl Substances (PFAS) by LC/MS/MS	**Calibration ID:**	KC2100481
		Report List ID:	19837

Internal Standard Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	Area Criteria
13C7-PFUnDA	5.124	+0.00	5038023	5.0000	OK

Surrogate Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	% Rec	% Rec Criteria	Rpt?
13C3-PFBS	4.027	0.00	462612	4.2233	84	33 - 109	Y
18O2-PFHxS	4.411		362381	4.6383	93	36 - 120	Y
13C4-PFOS	4.748	+0.00	463315	4.3395	87	32 - 130	Y
13C4-PFBA	3.397	-0.01	1682075	4.2804	86	34 - 116	Y
13C5-PFPeA	3.972	0.00	987191	4.3955	88	39 - 133	Y
13C2-PFHxA	4.228	0.00	2544337	3.9925	80	32 - 136	Y
13C4-PFHpA	4.412	+0.00	2734533	4.7315	95	36 - 133	Y
13C4-PFOA	4.584	+0.00	3459341	4.4773	90	31 - 134	Y
13C5-PFNA	4.759	+0.00	2980162	4.4769	90	27 - 133	Y
13C2-PFDA	4.947	+0.00	2287182	4.9418	99	30 - 137	Y
13C2-PFUnDA	5.124	+0.00	3120682	4.4719	89	32 - 146	Y
13C2-PFDoDA	5.291	+0.00	3399306	4.4162	88	36 - 136	Y
13C2-PFTeDA	5.595	+0.00	3043649	3.9409	79	39 - 138	Y
13C8-FOSA	5.226	+0.00	1416296	4.4198	88	40 - 132	Y
D3-MeFOSA	5.600	+0.00	271639	3.7780	76	51 - 132	Y
D5-EtFOSA	5.720	+0.00	345661	4.1267	83	49 - 123	Y
D7-MeFOSE	5.576	+0.00	391476	3.5359	71	53 - 125	Y
D9-EtFOSE	5.695	+0.00	405507	3.8677	77	45 - 121	Y
13C2-6:2 FTS	4.574	+0.00	598466	5.9420	119	30 - 140	Y
13C2-8:2 FTS	4.945	+0.00	458244	6.2586	125	9 - 171	Y

Target Compounds

Final Conc.Units: ng/g

Parameter Name	RT	RT Dev	Response	Solution Conc	Final Conc	Q	Rpt?

1st UA 09/15/21

2nd 09/16/21

Data File:	J:\LCMS06\Data\210914_B1\210914_019	**Instrument:**	K-LCMS-06
Acqu Date:	9/14/21 14:13	**Vial:**	5
Run Type:	DLCS	**Dilution:**	1
Lab ID:	KQ2115544-06	**Raw Units:**	ng/mL

Target Compounds

Final Conc.Units: ng/g

Parameter Name	RT	RT Dev	Response	Solution Conc	Final Conc	Q	Rpt?
Perfluorobutane sulfonic acid (PFBS)	4.027	0.00	150658	0.9620	7.70		Y
Perfluorohexane sulfonic acid (PFHxS)	4.409		126594	1.0681	8.54		Y
Perfluoroheptane sulfonic acid (PFHpS)	4.576	+0.00	129848	1.0429	8.34		Y
Perfluorooctane sulfonic acid (PFOS)	4.748	+0.00	92933	1.0718	8.57		Y
Perfluorodecane sulfonic acid (PFDS)	5.105	+0.00	124900	1.1450	9.16		Y
Perfluorobutanoic acid (PFBA)	3.398	-0.01	411720	1.0873	8.70		Y
Perfluoropentanoic acid (PFPeA)	3.973	0.00	715589	1.1576	9.26		Y
Perfluorohexanoic acid (PFHxA)	4.229		686610	1.0328	8.26		Y
Perfluoroheptanoic acid (PFHpA)	4.413	+0.00	659566	0.9997	8.00		Y
Perfluorooctanoic acid (PFOA)	4.584	+0.00	1001452	1.0558	8.45		Y
Perfluorononanoic acid (PFNA)	4.759	+0.00	720381	1.1689	9.35		Y
Perfluorodecanoic acid (PFDA)	4.947	+0.00	694725	1.0775	8.62		Y
Perfluoroundecanoic acid (PFUnDA)	5.124	+0.00	760265	1.1007	8.81		Y
Perfluorododecanoic acid (PFDoDA)	5.291		682023	1.1265	9.01		Y
Perfluorotridecanoic acid (PFTrDA)	5.447	+0.00	796900	1.2824	10.3		Y
Perfluorotetradecanoic acid (PFTeDA)	5.594	+0.00	674390	1.0007	8.01		Y
Perfluorooctane sulfonamide (FOSA)	5.227	+0.00	349405	1.0287	8.23		Y
N-Methyl perfluorooctane sulfonamide (MeFOSA)	5.603	+0.00	121367	1.1736	9.39		Y
N-Ethyl perfluorooctane sulfonamide (EtFOSA)	5.725	+0.00	21460	1.0243	8.19		Y
N-Methyl perfluorooctane sulfonamidoethanol	5.584	+0.00	167043	1.1871	9.50		Y
N-Ethyl perfluorooctane sulfonamidoethanol	5.704	+0.00	149304	1.0623	8.50		Y
6:2 Fluorotelomer sulfonic acid (6:2 FTS)	4.571	+0.00	169206	1.0836	8.67		Y
8:2 Fluorotelomer sulfonic acid (8:2 FTS)	4.944	+0.00	92802	1.0600	8.48		Y

Prep Amount:	1 g	**Dilution:**	1
Prep Final Amount:	8.00 mL	**Basis Factor:**	100.00

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Printed: 9/14/21 19:07

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Insight Report
Quantitation/Integration
Printed 9/14/2021 18:48:54

210914_019

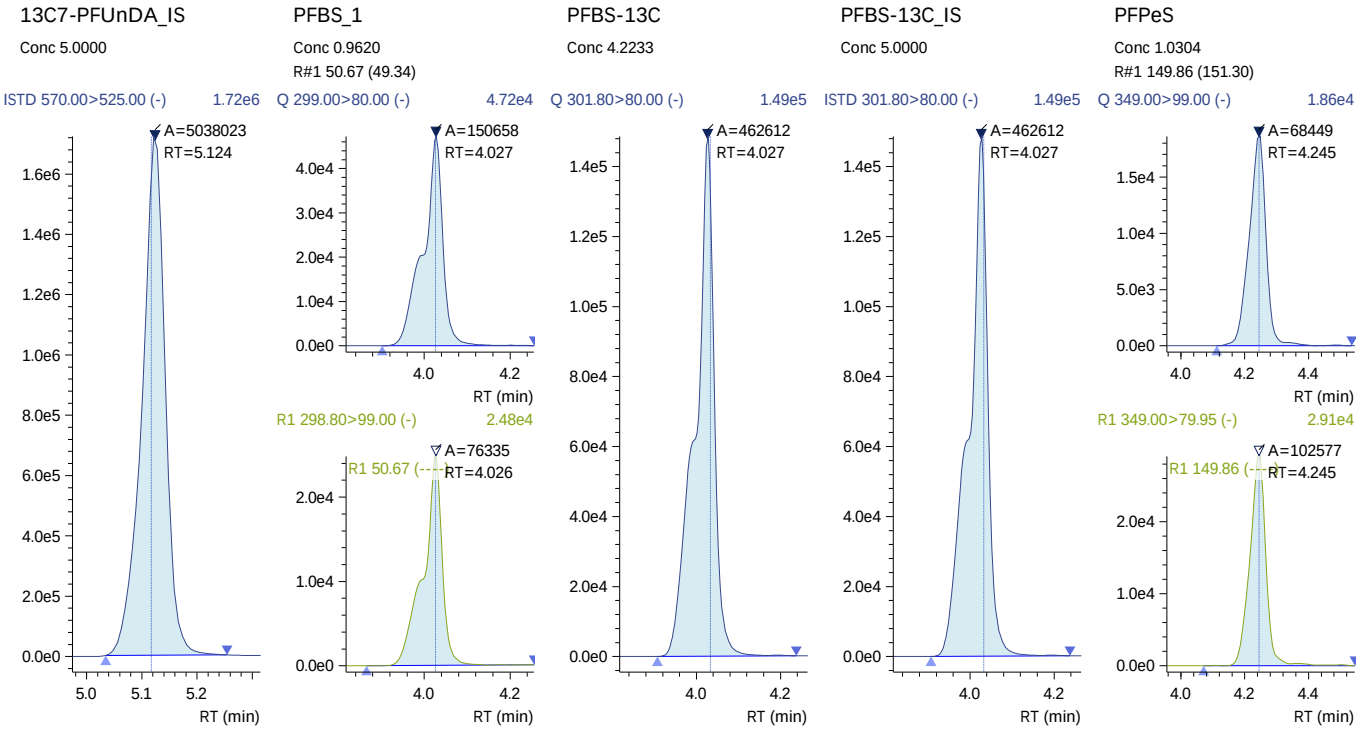
Sample ID: KQ2115544-06
Date Acquired: 9/14/2021 2:13:35 PM
Acquired by: System Administrator
Data File: 210914_019
Vial: 3 | Inj. Volume: 15.0000uL | Tray: 3

Name	Mode ID	Found RT	Area	ISTD Area	ISTD Name	Std. Conc.	Conc.	Unit
13C7-PFUnDA_IS	Auto	5.124	5038023	5038023	----	----	5.0000	ng/mL
PFBS_1	Auto	4.027	150658	462612	PFBS-13C_IS	----	0.9620	ng/mL
PFBS-13C	Auto	4.027	462612	5038023	13C7-PFUnDA_IS	----	4.2233	ng/mL
PFBS-13C_IS	Auto	4.027	462612	462612	----	----	5.0000	ng/mL
PFPeS	Auto	4.245	68449	462612	PFBS-13C_IS	----	1.0304	ng/mL
PFHxS_1	Auto	4.409	126594	362381	PFHxS-18O_IS	----	1.0681	ng/mL
PFHxS-18O	Auto	4.411	362381	5038023	13C7-PFUnDA_IS	----	4.6383	ng/mL
PFHxS-18O_IS	Auto	4.411	362381	362381	----	----	5.0000	ng/mL
PFHpS_1	Auto	4.576	129848	362381	PFHxS-18O_IS	----	1.0429	ng/mL
PFOS_1	Auto	4.748	92933	463315	PFOS-13C_IS	----	1.0718	ng/mL
PFOS-13C	Auto	4.748	463315	5038023	13C7-PFUnDA_IS	----	4.3395	ng/mL
PFOS-13C_IS	Auto	4.748	463315	463315	----	----	5.0000	ng/mL
PFNS	Auto	4.928	70478	463315	PFOS-13C_IS	----	1.1192	ng/mL
PFDS_1	Auto	5.105	124900	463315	PFOS-13C_IS	----	1.1450	ng/mL
PFBA	Auto	3.398	411720	1682075	PFBA-13C_IS	----	1.0873	ng/mL
PFBA-13C	Auto	3.397	1682075	5038023	13C7-PFUnDA_IS	----	4.2804	ng/mL
PFBA-13C_IS	Auto	3.397	1682075	1682075	----	----	5.0000	ng/mL
PFPeA	Auto	3.973	715589	987191	PFPeA-13C_IS	----	1.1576	ng/mL
PFPeA-13C	Auto	3.972	987191	5038023	13C7-PFUnDA_IS	----	4.3955	ng/mL
PFPeA-13C_IS	Auto	3.972	987191	987191	----	----	5.0000	ng/mL
PFHxA	Auto	4.229	686610	2544337	PFHxA-13C_IS	----	1.0328	ng/mL
PFHxA-13C	Auto	4.228	2544337	5038023	13C7-PFUnDA_IS	----	3.9925	ng/mL
PFHxA-13C_IS	Auto	4.228	2544337	2544337	----	----	5.0000	ng/mL
PFHpA	Auto	4.413	659566	2734533	PFHpA-13C_IS	----	0.9997	ng/mL
PFHpA-13C	Auto	4.412	2734533	5038023	13C7-PFUnDA_IS	----	4.7315	ng/mL
PFHpA-13C_IS	Auto	4.412	2734533	2734533	----	----	5.0000	ng/mL
PFOA	Auto	4.584	1001452	3459341	PFOA-13C_IS	----	1.0558	ng/mL
PFOA-13C	Auto	4.584	3459341	5038023	13C7-PFUnDA_IS	----	4.4773	ng/mL
PFOA-13C_IS	Auto	4.584	3459341	3459341	----	----	5.0000	ng/mL
PFNA	Auto	4.759	720381	2980162	PFNA-13C_IS	----	1.1689	ng/mL
PFNA-13C	Auto	4.759	2980162	5038023	13C7-PFUnDA_IS	----	4.4769	ng/mL
PFNA-13C_IS	Auto	4.759	2980162	2980162	----	----	5.0000	ng/mL
PFDA	Auto	4.947	694725	2287182	PFDA-13C_IS	----	1.0775	ng/mL
PFDA-13C	Auto	4.947	2287182	5038023	13C7-PFUnDA_IS	----	4.9418	ng/mL
PFDA-13C_IS	Auto	4.947	2287182	2287182	----	----	5.0000	ng/mL
PFUnA	Auto	5.124	760265	3120682	PFUnA-13C_IS	----	1.1007	ng/mL
PFUnA-13C	Auto	5.124	3120682	5038023	13C7-PFUnDA_IS	----	4.4719	ng/mL
PFUnA-13C_IS	Auto	5.124	3120682	3120682	----	----	5.0000	ng/mL
PFDoA	Auto	5.291	682023	3399306	PFDoA-13C_IS	----	1.1265	ng/mL
PFDoA-13C	Auto	5.291	3399306	5038023	13C7-PFUnDA_IS	----	4.4162	ng/mL
PFDoA-13C_IS	Auto	5.291	3399306	3399306	----	----	5.0000	ng/mL
PFTrDA	Auto	5.447	796900	3043649	PFTeDA-13C_IS	----	1.2824	ng/mL
PFTeDA	Auto	5.594	674390	3043649	PFTeDA-13C_IS	----	1.0007	ng/mL
PFTeDA-13C	Auto	5.595	3043649	5038023	13C7-PFUnDA_IS	----	3.9409	ng/mL
PFTeDA-13C_IS	Auto	5.595	3043649	3043649	----	----	5.0000	ng/mL
FOSA	Auto	5.227	349405	1416296	FOSA-13C_IS	----	1.0287	ng/mL
FOSA-13C	Auto	5.226	1416296	5038023	13C7-PFUnDA_IS	----	4.4198	ng/mL
FOSA-13C_IS	Auto	5.226	1416296	1416296	----	----	5.0000	ng/mL
N-MeFOSA	Auto	5.603	121367	271639	N-MeFOSA-d3_IS	----	1.1736	ng/mL
N-MeFOSA-d3	Auto	5.600	271639	5038023	13C7-PFUnDA_IS	----	3.7780	ng/mL
N-MeFOSA-d3_IS	Auto	5.600	271639	271639	----	----	5.0000	ng/mL
N-EtFOSA	Auto	5.725	21460	345661	N-EtFOSA-d9_IS	----	1.0243	ng/mL
N-EtFOSA-d9	Auto	5.720	345661	5038023	13C7-PFUnDA_IS	----	4.1267	ng/mL
N-EtFOSA-d9_IS	Auto	5.720	345661	345661	----	----	5.0000	ng/mL

210914_019 (continued)

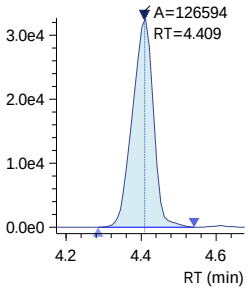
(Table continued from previous page)

Name	Mode ID	Found RT	Area	ISTD Area	ISTD Name	Std. Conc.	Conc.	Unit
N-MeFOSE	Auto	5.584	167043	391476	N-MeFOSE-d7_IS	----	1.1871	ng/mL
N-MeFOSE-d7	Auto	5.576	391476	5038023	13C7-PFUnDA_IS	----	3.5359	ng/mL
N-MeFOSE-d7_IS	Auto	5.576	391476	391476	----	----	5.0000	ng/mL
N-EtFOSE	Auto	5.704	149304	405507	N-EtFOSE-d9_IS	----	1.0623	ng/mL
N-EtFOSE-d9	Auto	5.695	405507	5038023	13C7-PFUnDA_IS	----	3.8677	ng/mL
N-EtFOSE-d9_IS	Auto	5.695	405507	405507	----	----	5.0000	ng/mL
N-MeFOSAA	Auto	5.045	78346	436240	N-MeFOSAA-d3_IS	----	1.0825	ng/mL
N-MeFOSAA-d3	Auto	5.042	436240	5038023	13C7-PFUnDA_IS	----	3.4297	ng/mL
N-MeFOSAA-d3_IS	Auto	5.042	436240	436240	----	----	5.0000	ng/mL
N-EtFOSAA	Auto	5.139	55379	368990	N-EtFOSAA-d5_IS	----	1.0121	ng/mL
N-EtFOSAA-d5	Auto	5.135	368990	5038023	13C7-PFUnDA_IS	----	3.4307	ng/mL
N-EtFOSAA-d5_IS	Auto	5.135	368990	368990	----	----	5.0000	ng/mL
4_2-FTS_1	Auto	4.206	106339	490710	4_2-FTS-13C_IS	----	1.2001	ng/mL
4_2-FTS-13C	Auto	4.205	490710	5038023	13C7-PFUnDA_IS	----	4.1164	ng/mL
4_2-FTS-13C_IS	Auto	4.205	490710	490710	----	----	5.0000	ng/mL
6_2-FTS_1	Auto	4.571	169206	598466	6_2-FTS-13C_IS	----	1.0836	ng/mL
6_2-FTS-13C	Auto	4.574	598466	5038023	13C7-PFUnDA_IS	----	5.9420	ng/mL
6_2-FTS-13C_IS	Auto	4.574	598466	598466	----	----	5.0000	ng/mL
8_2-FTS_1	Auto	4.944	92802	458244	8_2-FTS-13C_IS	----	1.0600	ng/mL
8_2-FTS-13C	Auto	4.945	458244	5038023	13C7-PFUnDA_IS	----	6.2586	ng/mL
8_2-FTS-13C_IS	Auto	4.945	458244	458244	----	----	5.0000	ng/mL
10_2-FtS_1	Auto	5.297	67762	458244	8_2-FTS-13C_IS	----	0.9534	ng/mL
HPFO_DA	Auto	4.297	108942	548975	HFPO_DA-13C_IS	----	0.9926	ng/mL
HFPO_DA-13C	Auto	4.297	548975	5038023	13C7-PFUnDA_IS	----	5.0852	ng/mL
HFPO_DA-13C_IS	Auto	4.297	548975	548975	----	----	5.0000	ng/mL

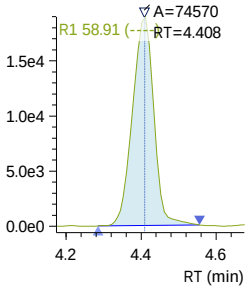


210914_019 (continued)

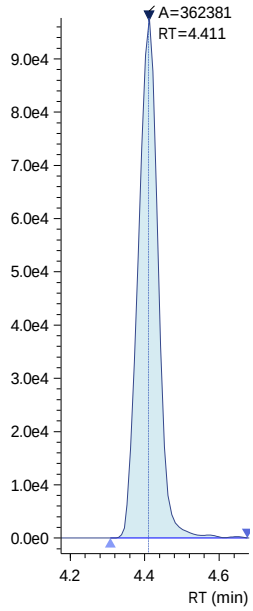
PFHxS_1
Conc 1.0681
R#1 58.91 (62.92)
Q 399.00>80.00 (-) 3.27e4



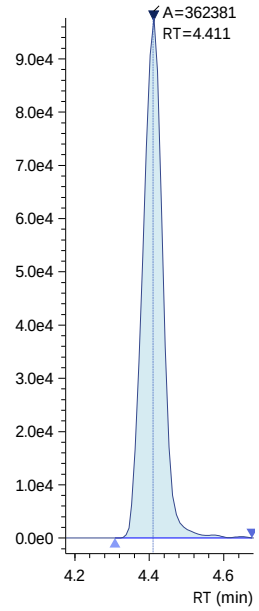
R1 399.00>99.00 (-) 1.90e4



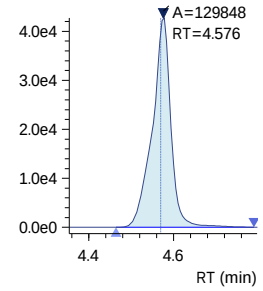
PFHxS-18O
Conc 4.6383
Q 402.70>84.05 (-) 9.77e4



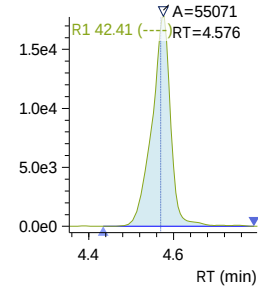
PFHxS-18O_IS
Conc 5.0000
ISTD 402.70>84.05 (-) 9.77e4



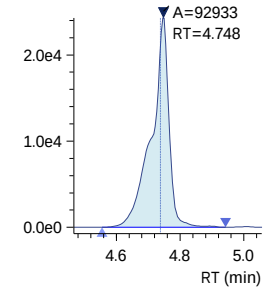
PFHpS_1
Conc 1.0429
R#1 42.41 (40.53)
Q 449.00>80.15 (-) 4.27e4



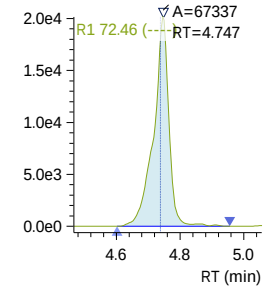
R1 449.00>99.20 (-) 1.78e4



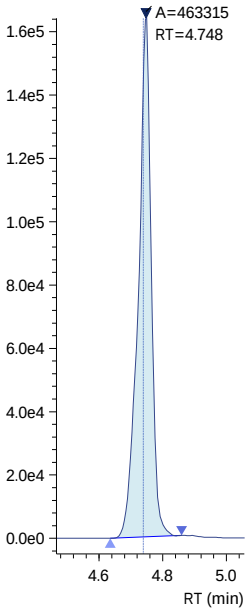
PFOS_1
Conc 1.0718
R#1 72.46 (73.81)
Q 499.00>80.00 (-) 2.43e4



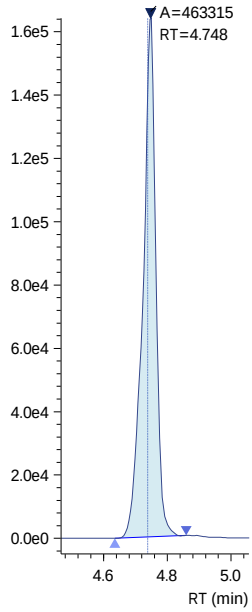
R1 499.00>99.00 (-) 2.02e4



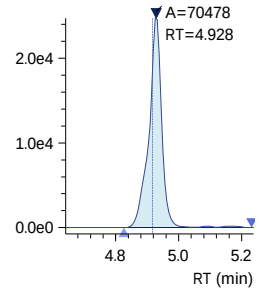
PFOS-13C
Conc 4.3395
Q 502.80>80.05 (-) 1.64e5



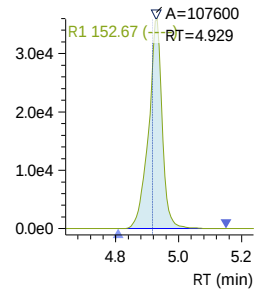
PFOS-13C_IS
Conc 5.0000
ISTD 502.80>80.05 (-) 1.64e5



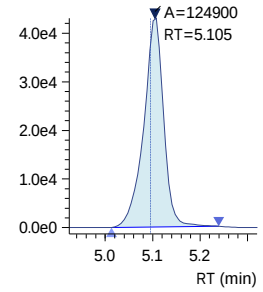
PFNS
Conc 1.1192
R#1 152.67 (160.25)
Q 549.00>99.00 (-) 2.47e4



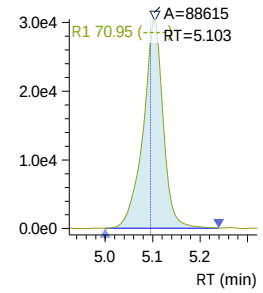
R1 549.00>79.95 (-) 3.59e4



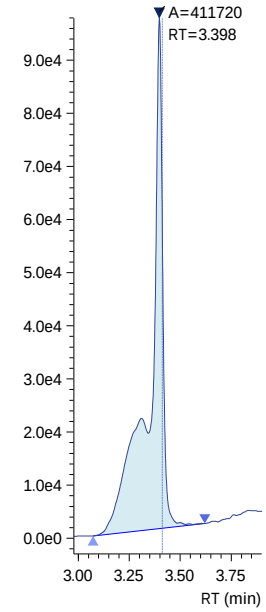
PFDS_1
Conc 1.1450
R#1 70.95 (72.12)
Q 599.00>79.90 (-) 4.31e4



R1 599.00>99.10 (-) 3.05e4

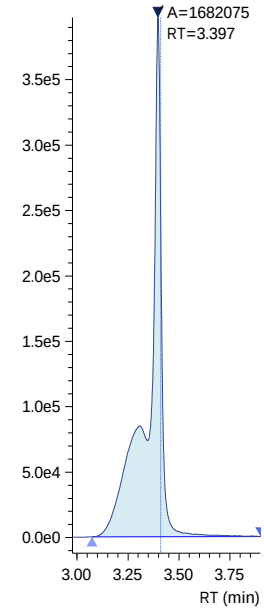


PFBA
Conc 1.0873
Q 213.00>169.10 (-) 9.79e4

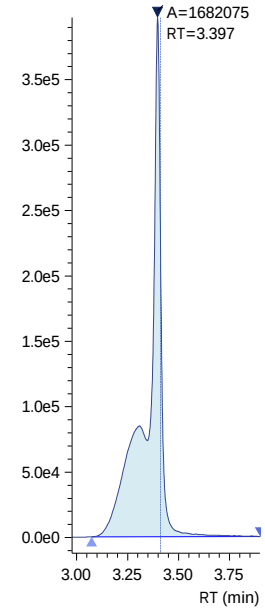


210914_019 (continued)

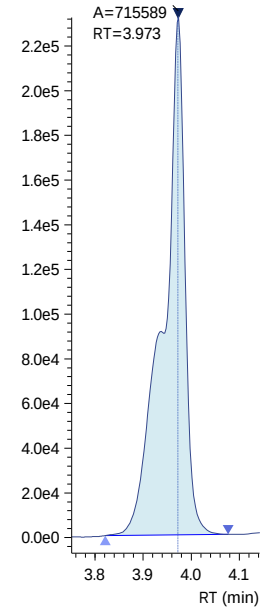
PFBA-13C
Conc 4.2804
Q 216.90>172.15 (-) 3.98e5



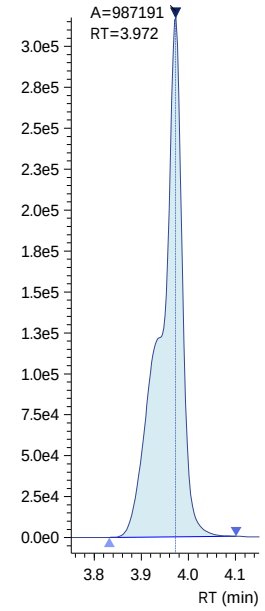
PFBA-13C_IS
Conc 5.0000
ISTD 216.90>172.15 (-) 3.98e5



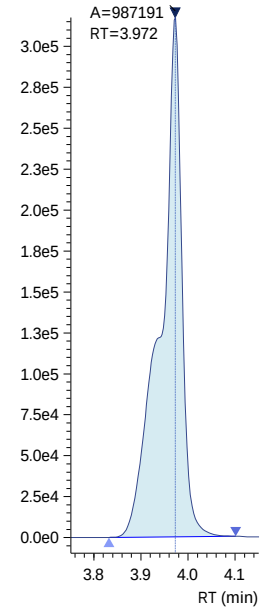
PFPeA
Conc 1.1576
Q 263.05>219.10 (-) 2.33e5



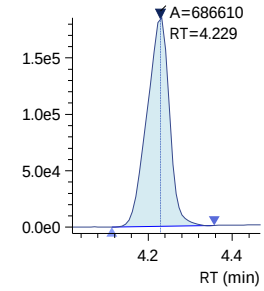
PFPeA-13C
Conc 4.3955
Q 267.90>223.00 (-) 3.18e5



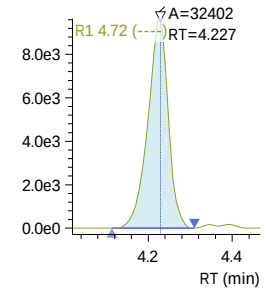
PFPeA-13C_IS
Conc 5.0000
ISTD 267.90>223.00 (-) 3.18e5



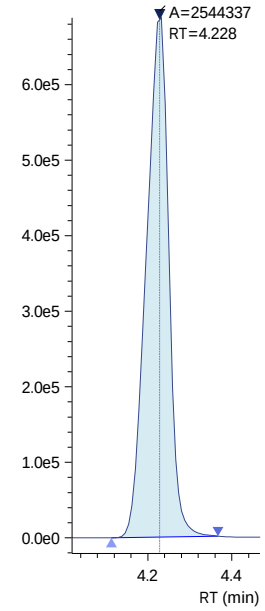
PFHxA
Conc 1.0328
R#1 4.72 (4.40)
Q 313.00>269.00 (-) 1.86e5



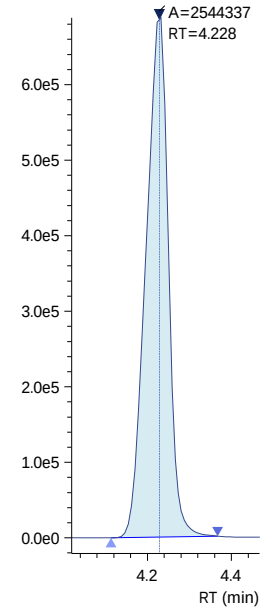
R1 313.00>119.10 (-) 9.64e3



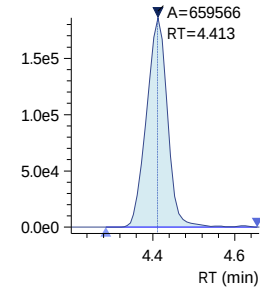
PFHxA-13C
Conc 3.9925
Q 314.90>270.10 (-) 6.89e5



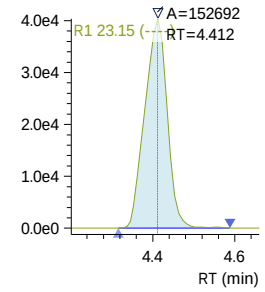
PFHxA-13C_IS
Conc 5.0000
ISTD 314.90>270.10 (-) 6.89e5



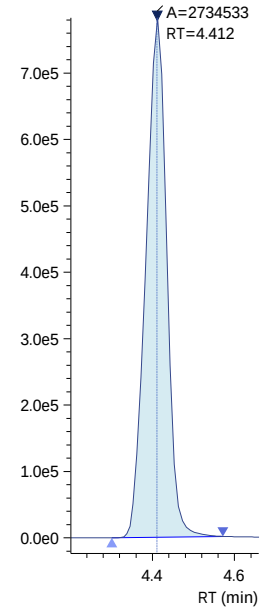
PFHpA
Conc 0.9997
R#1 23.15 (24.40)
Q 362.90>319.00 (-) 1.86e5



R1 362.90>169.00 (-) 4.04e4

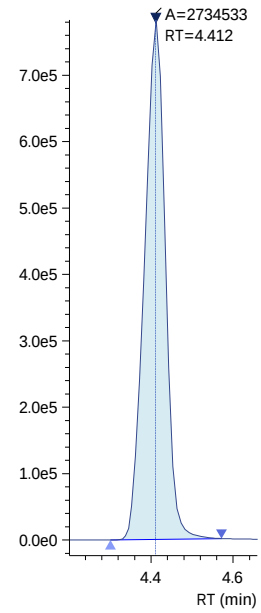


PFHpA-13C
Conc 4.7315
Q 366.90>322.10 (-) 7.83e5

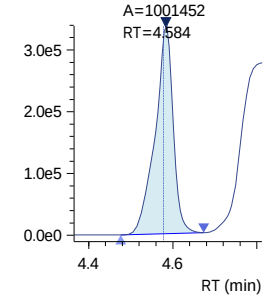


210914_019 (continued)

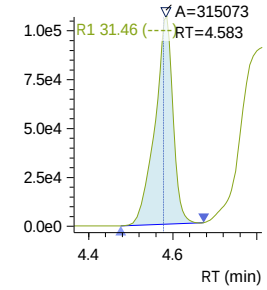
PFHpA-13C_IS
Conc 5.0000
ISTD 366.90>322.10 (-) 7.83e5



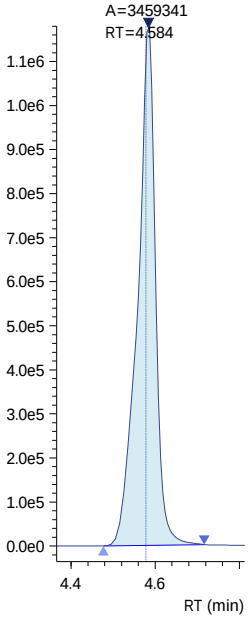
PFOA
Conc 1.0558
R#1 31.46 (31.89)
Q 413.00>369.00 (-) 3.39e5



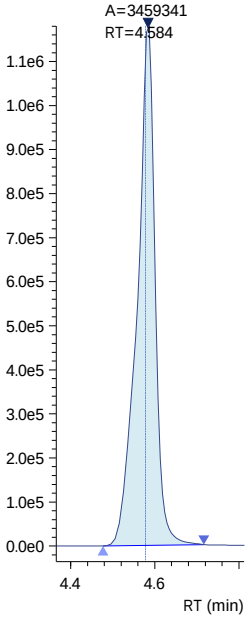
R1 413.00>169.10 (-) 1.07e5



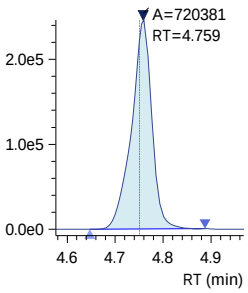
PFOA-13C
Conc 4.4773
Q 416.80>372.05 (-) 1.18e6



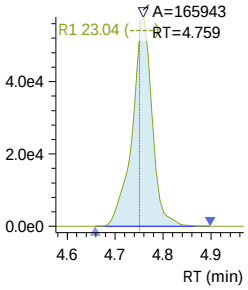
PFOA-13C_IS
Conc 5.0000
ISTD 416.80>372.05 (-) 1.18e6



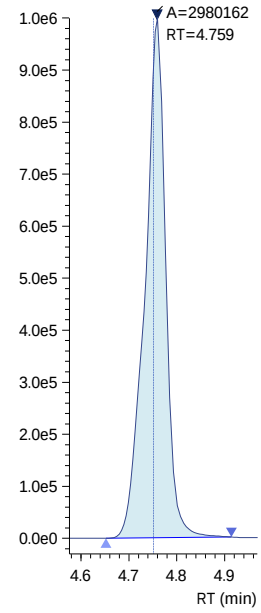
PFNA
Conc 1.1689
R#1 23.04 (23.25)
Q 463.00>418.90 (-) 2.46e5



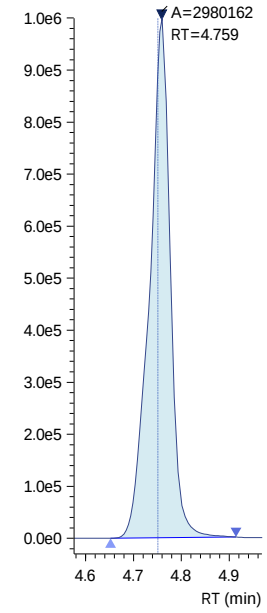
R1 463.00>219.00 (-) 5.79e4



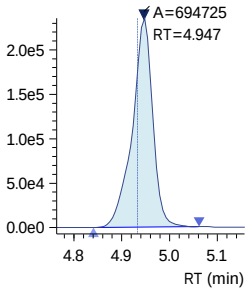
PFNA-13C
Conc 4.4769
Q 467.80>423.00 (-) 1.00e6



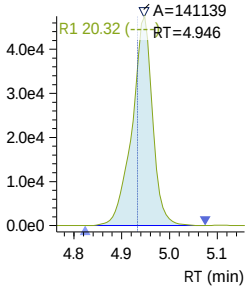
PFNA-13C_IS
Conc 5.0000
ISTD 467.80>423.00 (-) 1.00e6



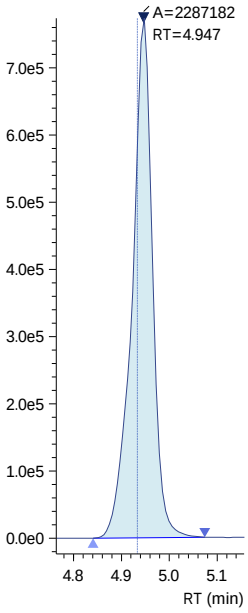
PFDA
Conc 1.0775
R#1 20.32 (20.24)
Q 513.00>468.80 (-) 2.36e5



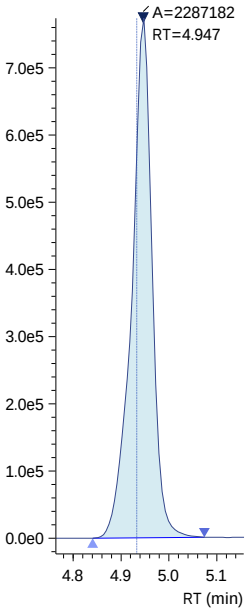
R1 513.00>219.10 (-) 4.75e4



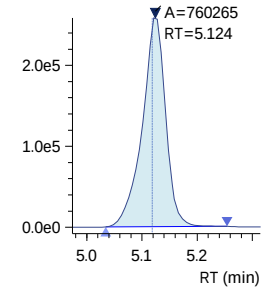
PFDA-13C
Conc 4.9418
Q 514.80>469.95 (-) 7.74e5

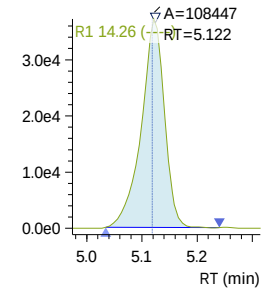


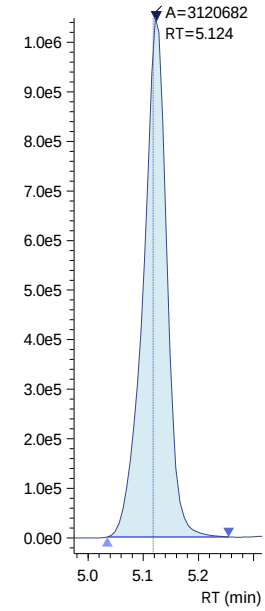
PFDA-13C_IS
Conc 5.0000
ISTD 514.80>469.95 (-) 7.74e5

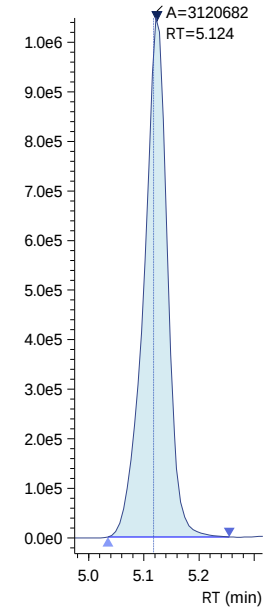


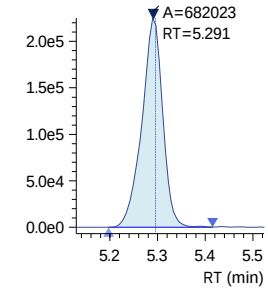
210914_019 (continued)

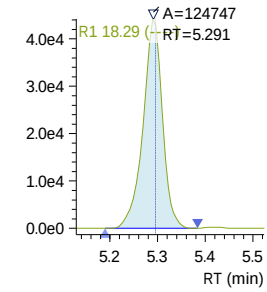
PFUnA
Conc 1.1007
R#1 14.26 (12.46)
Q 563.00>518.90 (-) 2.59e5


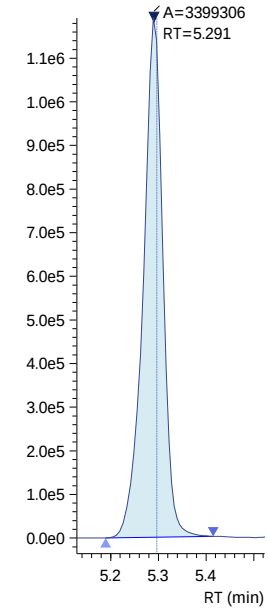
R1 563.00>219.00 (-) 3.73e4


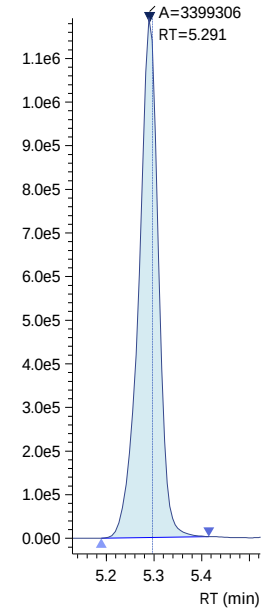
PFUnA-13C
Conc 4.4719
Q 564.80>519.95 (-) 1.05e6


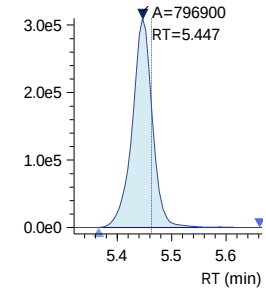
PFUnA-13C_IS
Conc 5.0000
ISTD 564.80>519.95 (-) 1.05e6


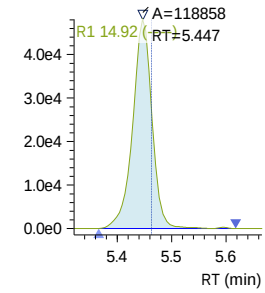
PFDoA
Conc 1.1265
R#1 18.29 (16.50)
Q 613.05>569.00 (-) 2.25e5


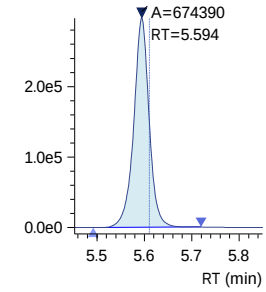
R1 613.05>169.00 (-) 4.42e4


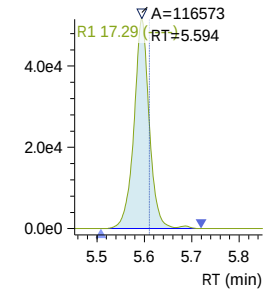
PFDoA-13C
Conc 4.4162
Q 614.80>569.95 (-) 1.19e6


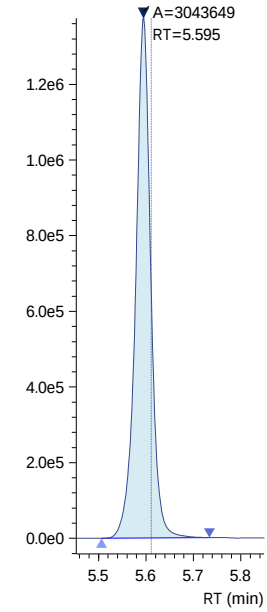
PFDoA-13C_IS
Conc 5.0000
ISTD 614.80>569.95 (-) 1.19e6


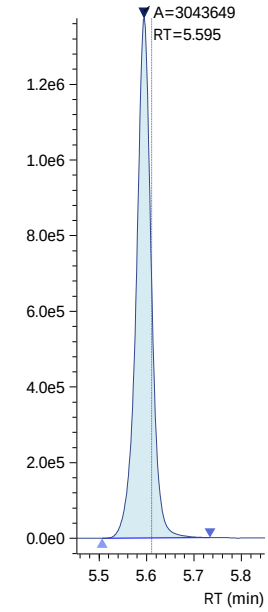
PFTrDA
Conc 1.2824
R#1 14.92 (15.29)
Q 663.00>618.90 (-) 3.10e5


R1 662.90>169.00 (-) 4.81e4


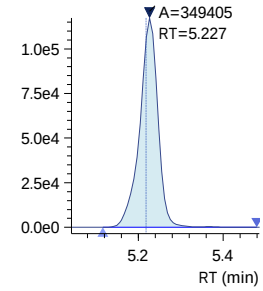
PFTeDA
Conc 1.0007
R#1 17.29 (17.47)
Q 713.00>669.00 (-) 2.97e5


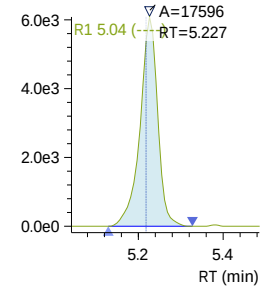
R1 713.00>169.10 (-) 5.15e4


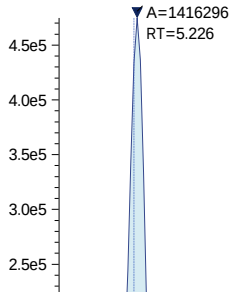
PFTeDA-13C
Conc 3.9409
Q 714.70>669.90 (-) 1.37e6


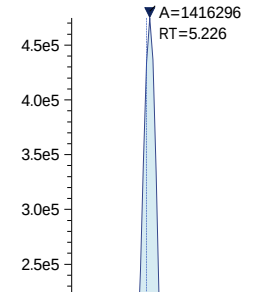
PFTeDA-13C_IS
Conc 5.0000
ISTD 714.70>669.90 (-) 1.37e6


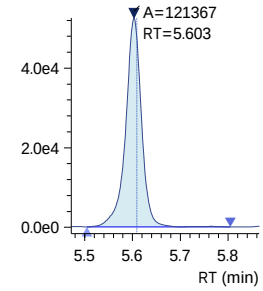
210914_019 (continued)

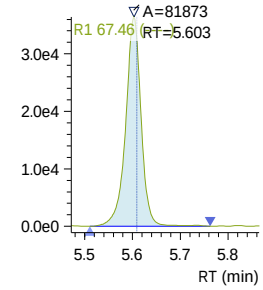
FOSA
Conc 1.0287
R#1 5.04 (5.19)
Q 498.20>78.00 (-) 1.17e5


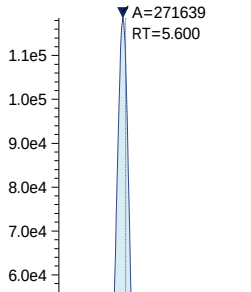
R1 498.20>64.10 (-) 6.09e3


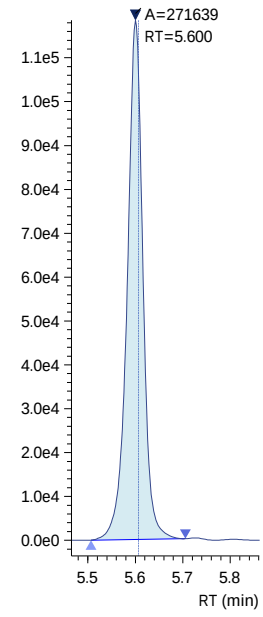
FOSA-13C
Conc 4.4198
Q 506.00>78.05 (-) 4.75e5


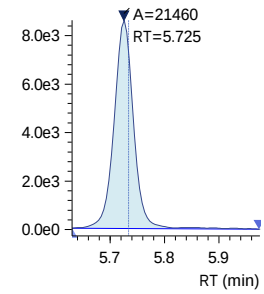
FOSA-13C_IS
Conc 5.0000
ISTD 506.00>78.05 (-) 4.75e5


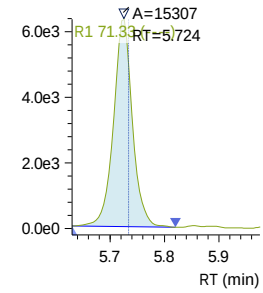
N-MeFOSA
Conc 1.1736
R#1 67.46 (69.94)
Q 512.00>169.10 (-) 5.26e4


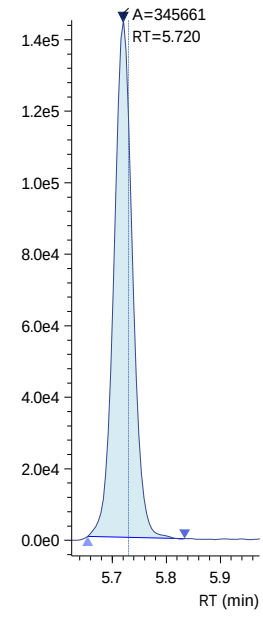
R1 512.00>219.00 (-) 3.64e4


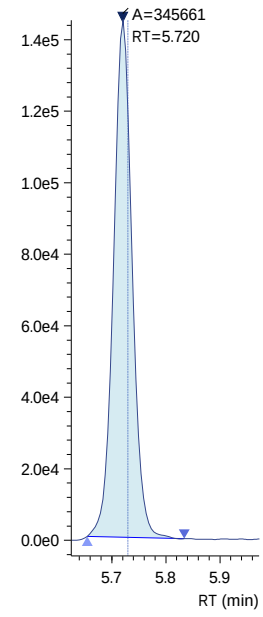
N-MeFOSA-d3
Conc 3.7780
Q 514.90>168.90 (-) 1.19e5


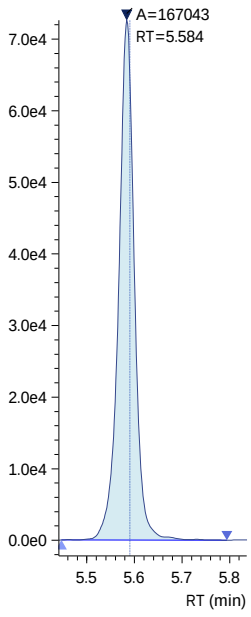
N-MeFOSA-d3_IS
Conc 5.0000
ISTD 514.90>168.90 (-) 1.19e5


N-MeFOSA
Conc 1.0243
R#1 71.33 (66.52)
Q 526.90>169.10 (-) 8.63e3


R1 526.90>219.00 (-) 6.38e3


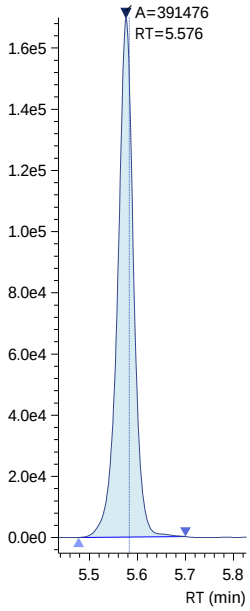
N-EtFOSA-d9
Conc 4.1267
Q 530.90>169.15 (-) 1.45e5


N-EtFOSA-d9_IS
Conc 5.0000
ISTD 530.90>169.15 (-) 1.45e5


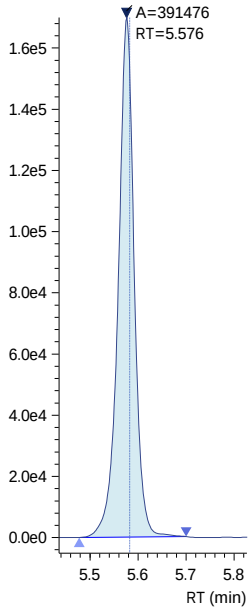
N-MeFOSE
Conc 1.1871
Q 616.00>59.00 (-) 7.26e4


210914_019 (continued)

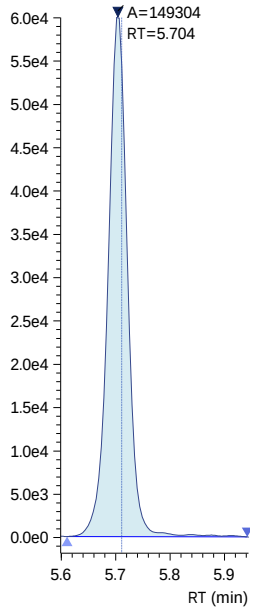
N-MeFOSE-d7
Conc 3.5359
Q 622.70>59.10 (-) 1.70e5



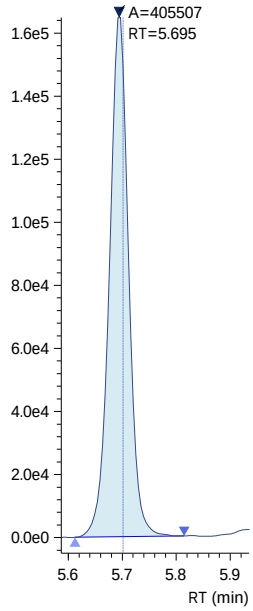
N-MeFOSE-d7_IS
Conc 5.0000
ISTD 622.70>59.10 (-) 1.70e5



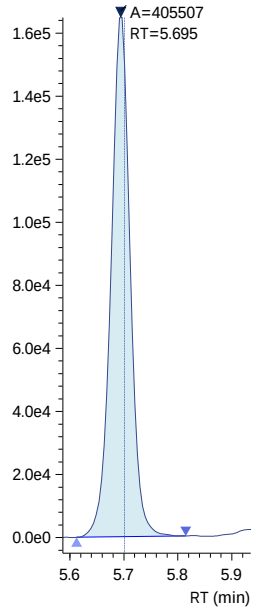
N-EtFOSE
Conc 1.0623
Q 630.00>58.90 (-) 6.00e4



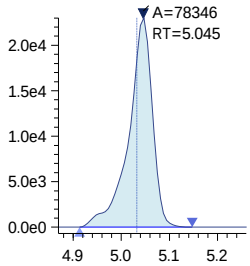
N-EtFOSE-d9
Conc 3.8677
Q 638.70>59.10 (-) 1.65e5



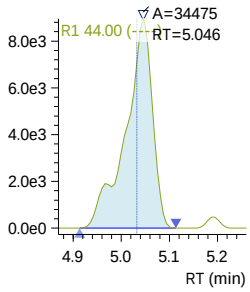
N-EtFOSE-d9_IS
Conc 5.0000
ISTD 638.70>59.10 (-) 1.65e5



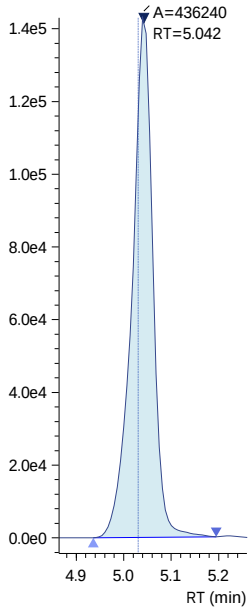
N-MeFOSAA
Conc 1.0825
R#1 44.00 (39.56)
Q 570.20>419.00 (-) 2.30e4



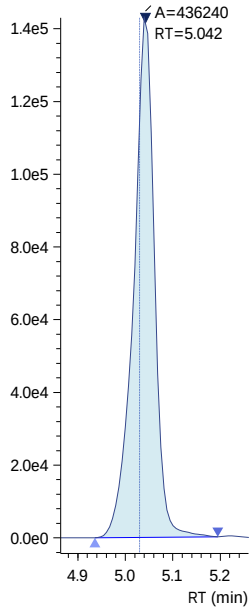
R1 570.20>512.00 (-) 8.95e3



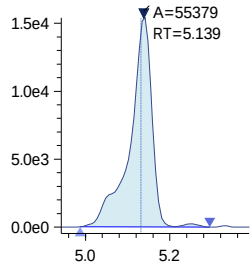
N-MeFOSAA-d3
Conc 3.4297
Q 572.80>419.05 (-) 1.43e5



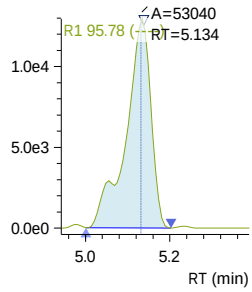
N-MeFOSAA-d3_IS
Conc 5.0000
ISTD 572.80>419.05 (-) 1.43e5



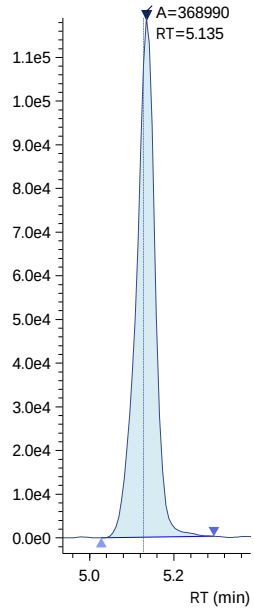
N-EtFOSAA
Conc 1.0121
R#1 95.78 (84.54)
Q 584.20>418.95 (-) 1.54e4



R1 584.20>526.10 (-) 1.30e4

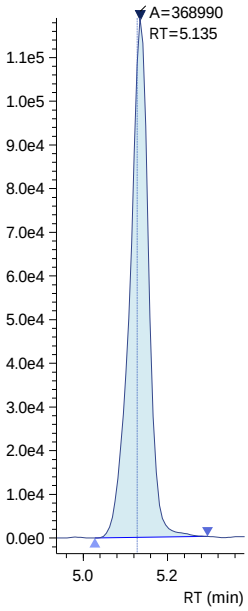


N-EtFOSAA-d5
Conc 3.4307
Q 588.80>419.00 (-) 1.19e5

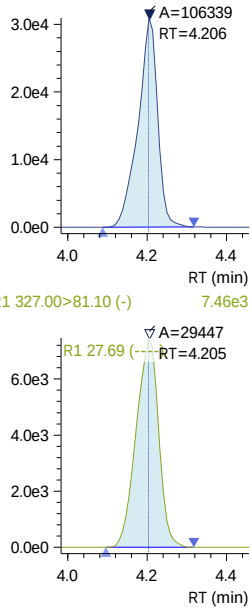


210914_019 (continued)

N-EtFOSAA-d5_IS
Conc 5.0000
ISTD 588.80>419.00 (-) 1.19e5

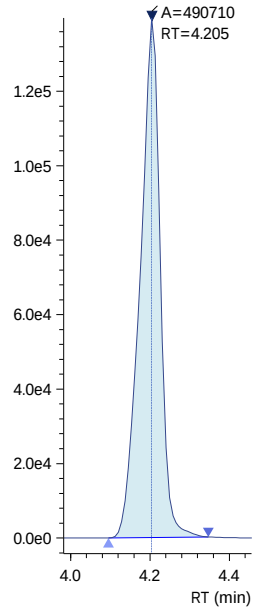


4_2-FTS_1
Conc 1.2001
R#1 27.69 (34.12)
Q 327.00>307.05 (-) 3.09e4

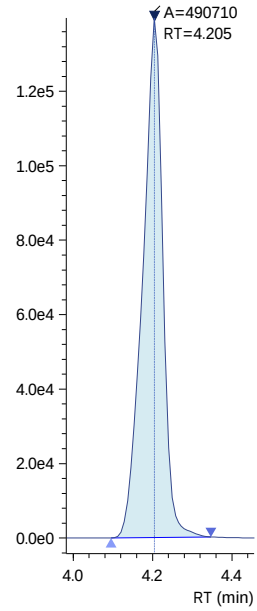


R1 327.00>81.10 (-) 7.46e3

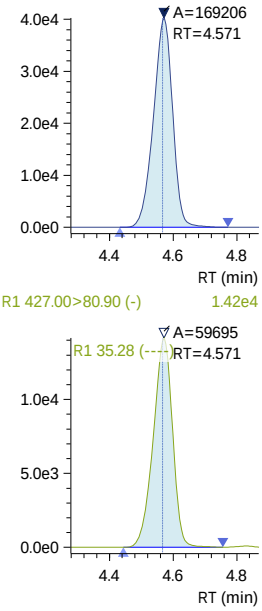
4_2-FTS-13C
Conc 4.1164
Q 328.80>309.05 (-) 1.40e5



4_2-FTS-13C_IS
Conc 5.0000
ISTD 328.80>309.05 (-) 1.40e5

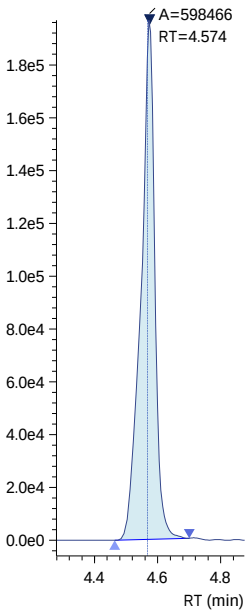


6_2-FTS_1
Conc 1.0836
R#1 35.28 (37.36)
Q 427.00>407.00 (-) 4.03e4

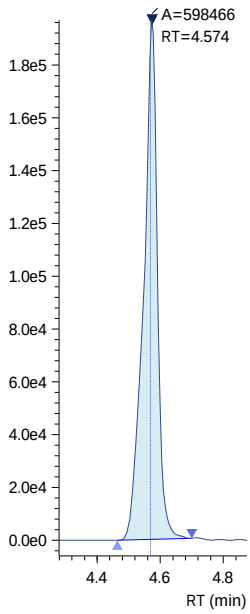


R1 427.00>80.90 (-) 1.42e4

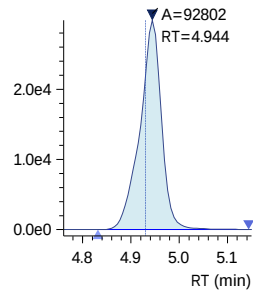
6_2-FTS-13C
Conc 5.9420
Q 428.90>409.00 (-) 1.97e5



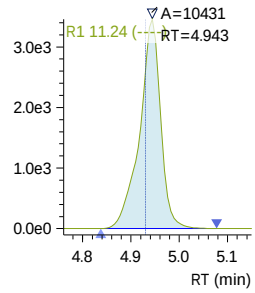
6_2-FTS-13C_IS
Conc 5.0000
ISTD 428.90>409.00 (-) 1.97e5



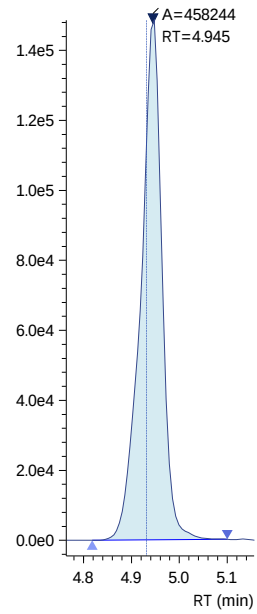
8_2-FTS_1
Conc 1.0600
R#1 11.24 (10.63)
Q 527.10>506.90 (-) 2.98e4



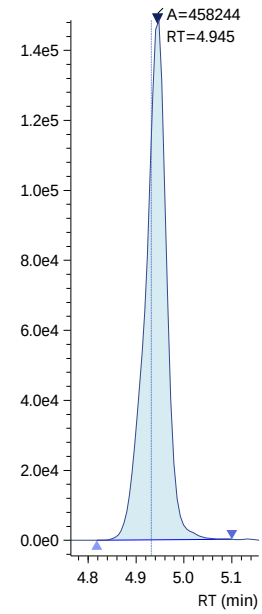
R1 527.20>487.00 (-) 3.46e3



8_2-FTS-13C
Conc 6.2586
Q 528.80>509.00 (-) 1.49e5

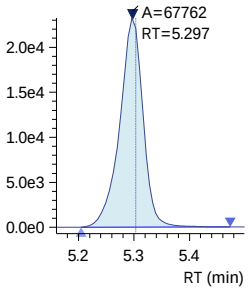


8_2-FTS-13C_IS
Conc 5.0000
ISTD 528.80>509.00 (-) 1.49e5

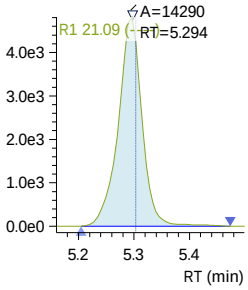


210914_019 (continued)

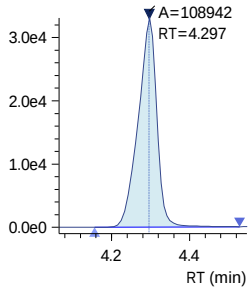
10_2-FtS_1
Conc 0.9534
R#1 21.09 (21.61)
Q 627.00>606.95 (-) 2.33e4



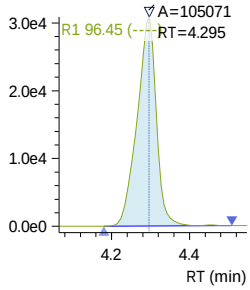
R1 627.00>81.25 (-) 4.82e3



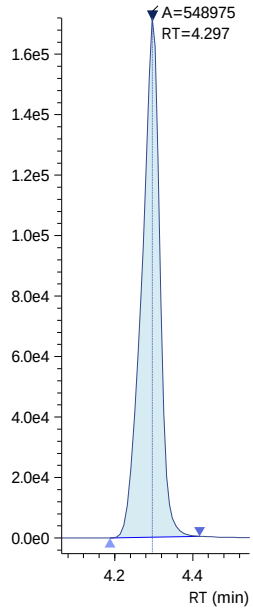
HPFO_DA
Conc 0.9926
R#1 96.45 (106.46)
Q 329.00>169.00 (-) 3.31e4



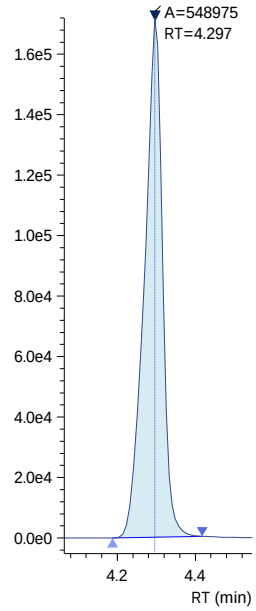
R1 329.00>285.10 (-) 3.09e4



HFPO_DA-13C
Conc 5.0852
Q 332.00>286.80 (-) 1.72e5



HFPO_DA-13C_IS
Conc 5.0000
ISTD 332.00>286.80 (-) 1.72e5



1st UA 09/15/21
2nd 09/16/21

Validation Report

Data File: J:\LCMS06\Data\210914_B1\210914_023
Lab ID: KQ2115544-01
RunType: MS
Matrix: Soil

Date Acquired: 9/14/21 14:55
Batch ID: 738712
Analysis Method: PFC/537M/PFAS

Validations

Validation Categories	Pass	Fail
Analytical Hold Time	X	
ICAL Analyte Recovery	X	
Second Source ICAL Verification	X	
Continuing Calibration Recovery		X
Internal Standards	X	
Surrogates		X
Std MRL Unsupported by ICAL	X	
Above Highest ICAL Level	X	

Analyte Exceptions

Exception Categories	Analyte Name	Result	Low Limit	High Limit	Corrective Action
Continuing Calibration Recovery	13C2-6:2 FTS	136	70	130	native in control
	13C2-8:2 FTS	148	70	130	native in control
Surrogates	13C8-FOSA	24	40	132	Confirms sample results
	D3-MeFOSA	16	51	132	
	D5-EtFOSA	14	49	123	
	D7-MeFOSE	14	53	125	
	13C2-6:2 FTS	146	30	140	
	13C2-8:2 FTS	187	9	171	

Primary Review: _____

Secondary Review: _____

1st UA 09/15/21
2nd 09/16/21

Quantitation Report

Data File:	J:\LCMS06\Data\210914_B1\210914_023	**Instrument:**	K-LCMS-06
Acqu Date:	9/14/21 14:55	**Vial:**	9
Run Type:	MS	**Dilution:**	1
Lab ID:	KQ2115544-01	**Raw Units:**	ng/mL

Bottle ID:	K2109142-002.02	**Tier:**	IV	**Matrix:**	Soil
Prod Code:	PFAS	**Collect Date:**	8/5/21	**Receive Date:**	8/6/21

Analysis Lot:	738712	**Prep Lot:**	385318	**Report Group:**	KQ2115544
Analysis	PFC/537M	**Prep Method:**	ALS SOP		
		Prep Date:	8/31/21		

Title:	Per- and Polyfluoroalkyl Substances (PFAS) by LC/MS/MS	**Calibration ID:**	KC2100481
		Report List ID:	19837

Internal Standard Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	Area Criteria
13C7-PFUnDA	5.114	-0.01	4690627	5.0000	OK

Surrogate Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	% Rec		% Rec Criteria	Rpt?
13C3-PFBS	4.021	-0.01	455091	4.4624	89		33 - 109	Y
18O2-PFHxS	4.407	0.00	383707	5.2750	106		36 - 120	Y
13C4-PFOS	4.741	0.00	453550	4.5627	91		32 - 130	Y
13C4-PFBA	3.393	-0.01	1888763	5.1623	103		34 - 116	Y
13C5-PFPeA	3.966	-0.01	926782	4.4322	89		39 - 133	Y
13C2-PFHxA	4.225	0.00	2584469	4.3558	87		32 - 136	Y
13C4-PFHpA	4.407	0.00	2627168	4.8824	98		36 - 133	Y
13C4-PFOA	4.579	0.00	3177008	4.4164	88		31 - 134	Y
13C5-PFNA	4.753	0.00	3064490	4.9445	99		27 - 133	Y
13C2-PFDA	4.940	0.00	2162385	5.0182	100		30 - 137	Y
13C2-PFUnDA	5.114	-0.01	2912864	4.4832	90		32 - 146	Y
13C2-PFDoDA	5.278	-0.01	2757148	3.8472	77		36 - 136	Y
13C2-PFTeDA	5.583	-0.01	1910941	2.6575	53		39 - 138	Y
13C8-FOSA	5.220	-0.01	362993	1.2167	24	*	40 - 132	Y
D3-MeFOSA	5.601	+0.00	54500	0.8141	16	*	51 - 132	Y
D5-EtFOSA	5.718	0.00	56138	0.7198	14	*	49 - 123	Y
D7-MeFOSE	5.572	0.00	70834	0.6872	14	*	53 - 125	Y
D9-EtFOSE	5.687	-0.01	276729	2.8349	57		45 - 121	Y
13C2-6:2 FTS	4.570	0.00	684747	7.3021	146	*	30 - 140	Y
13C2-8:2 FTS	4.939	0.00	638950	9.3730	187	*	9 - 171	Y

Target Compounds

Final Conc.Units: ng/g

Parameter Name	RT	RT Dev	Response	Solution Conc	Final Conc	Q	Rpt?

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

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1st UA 09/15/21
2nd ~~AC~~ 09/16/21

Data File:	J:\LCMS06\Data\210914_B1\210914_023	**Instrument:**	K-LCMS-06
Acqu Date:	9/14/21 14:55	**Vial:**	9
Run Type:	MS	**Dilution:**	1
Lab ID:	KQ2115544-01	**Raw Units:**	ng/mL

Target Compounds

Final Conc.Units: ng/g

Parameter Name	RT	RT Dev	Response	Solution Conc	Final Conc	Q	Rpt?
Perfluorobutane sulfonic acid (PFBS)	4.021	-0.01	142156	0.9227	31.2		Y
Perfluorohexane sulfonic acid (PFHxS)	4.405	0.00	98169	0.7765	26.3		Y
Perfluoroheptane sulfonic acid (PFHpS)	4.570	-0.01	119696	0.9079	30.7		Y
Perfluorooctane sulfonic acid (PFOS)	4.741	0.00	93148	1.0974	37.1		Y
Perfluorodecane sulfonic acid (PFDS)	5.093	-0.01	108263	1.0139	34.3		Y
Perfluorobutanoic acid (PFBA)	3.394	-0.01	508523	1.1927	40.3		Y
Perfluoropentanoic acid (PFPeA)	3.966	-0.01	635586	1.0933	37.0		Y
Perfluorohexanoic acid (PFHxA)	4.225	0.00	714335	1.0578	35.8		Y
Perfluoroheptanoic acid (PFHpA)	4.406	-0.01	812387	1.2817	43.3		Y
Perfluorooctanoic acid (PFOA)	4.579	0.00	880078	1.0103	34.2		Y
Perfluorononanoic acid (PFNA)	4.753	0.00	729000	1.1504	38.9		Y
Perfluorodecanoic acid (PFDA)	4.940	0.00	632521	1.0376	35.1		Y
Perfluoroundecanoic acid (PFUnDA)	5.114	-0.01	693052	1.0750	36.4		Y
Perfluorododecanoic acid (PFDoDA)	5.279	-0.01	534617	1.0887	36.8		Y
Perfluorotridecanoic acid (PFTrDA)	5.436	-0.01	566482	1.4519	49.1		Y
Perfluorotetradecanoic acid (PFTeDA)	5.583	-0.01	415877	0.9829	33.2		Y
Perfluorooctane sulfonamide (FOSA)	5.221	0.00	85944	0.9872	33.4		Y
N-Methyl perfluorooctane sulfonamide (MeFOSA)	5.604	+0.00	31802	1.5327	51.8		Y
N-Ethyl perfluorooctane sulfonamide (EtFOSA)	5.718	-0.01	44599	13.1078	443		Y
N-Methyl perfluorooctane sulfonamidoethanol	5.580	0.00	30851	1.2117	41.0		Y
N-Ethyl perfluorooctane sulfonamidoethanol	5.696	0.00	32750	0.3415	11.5		Y
6:2 Fluorotelomer sulfonic acid (6:2 FTS)	4.571	+0.00	201614	1.1284	38.2		Y
8:2 Fluorotelomer sulfonic acid (8:2 FTS)	4.938	0.00	127561	1.0449	35.3		Y

Prep Amount:	1.132 g	**Dilution:**	1
Prep Final Amount:	8.00 mL	**Basis Factor:**	20.90

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

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Insight Report
Quantitation/Integration
Printed 9/14/2021 18:48:54

210914_023

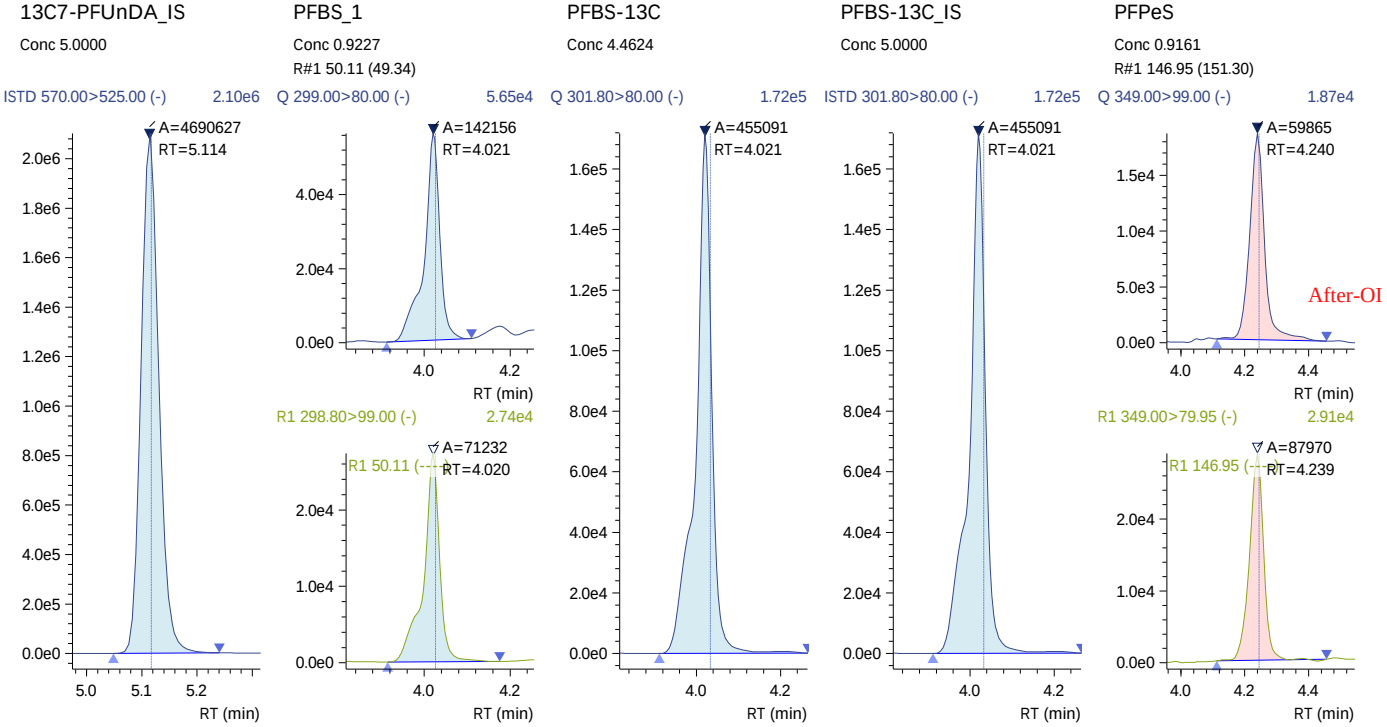
Sample ID: KQ2115544-01
Date Acquired: 9/14/2021 2:55:36 PM
Acquired by: System Administrator
Data File: 210914_023
Vial: 7 | Inj. Volume: 15.0000uL | Tray: 3

Name	Mode ID	Found RT	Area	ISTD Area	ISTD Name	Std. Conc.	Conc.	Unit
13C7-PFUnDA_IS	Auto	5.114	4690627	4690627	----	----	5.0000	ng/mL
PFBS_1	Auto	4.021	142156	455091	PFBS-13C_IS	----	0.9227	ng/mL
PFBS-13C	Auto	4.021	455091	4690627	13C7-PFUnDA_IS	----	4.4624	ng/mL
PFBS-13C_IS	Auto	4.021	455091	455091	----	----	5.0000	ng/mL
PFPeS	M	4.240	59865	455091	PFBS-13C_IS	----	0.9161	ng/mL
PFHxS_1	Auto	4.405	98169	383707	PFHxS-18O_IS	----	0.7765	ng/mL
PFHxS-18O	Auto	4.407	383707	4690627	13C7-PFUnDA_IS	----	5.2750	ng/mL
PFHxS-18O_IS	Auto	4.407	383707	383707	----	----	5.0000	ng/mL
PFHpS_1	Auto	4.570	119696	383707	PFHxS-18O_IS	----	0.9079	ng/mL
PFOS_1	Auto	4.741	93148	453550	PFOS-13C_IS	----	1.0974	ng/mL
PFOS-13C	Auto	4.741	453550	4690627	13C7-PFUnDA_IS	----	4.5627	ng/mL
PFOS-13C_IS	Auto	4.741	453550	453550	----	----	5.0000	ng/mL
PFNS	Auto	4.923	62107	453550	PFOS-13C_IS	----	1.0075	ng/mL
PFDS_1	Auto	5.093	108263	453550	PFOS-13C_IS	----	1.0139	ng/mL
PFBA	Auto	3.394	508523	1888763	PFBA-13C_IS	----	1.1927	ng/mL
PFBA-13C	Auto	3.393	1888763	4690627	13C7-PFUnDA_IS	----	5.1623	ng/mL
PFBA-13C_IS	Auto	3.393	1888763	1888763	----	----	5.0000	ng/mL
PFPeA	Auto	3.966	635586	926782	PFPeA-13C_IS	----	1.0933	ng/mL
PFPeA-13C	Auto	3.966	926782	4690627	13C7-PFUnDA_IS	----	4.4322	ng/mL
PFPeA-13C_IS	Auto	3.966	926782	926782	----	----	5.0000	ng/mL
PFHxA	Auto	4.225	714335	2584469	PFHxA-13C_IS	----	1.0578	ng/mL
PFHxA-13C	Auto	4.225	2584469	4690627	13C7-PFUnDA_IS	----	4.3558	ng/mL
PFHxA-13C_IS	Auto	4.225	2584469	2584469	----	----	5.0000	ng/mL
PFHpA	Auto	4.406	812387	2627168	PFHpA-13C_IS	----	1.2817	ng/mL
PFHpA-13C	Auto	4.407	2627168	4690627	13C7-PFUnDA_IS	----	4.8824	ng/mL
PFHpA-13C_IS	Auto	4.407	2627168	2627168	----	----	5.0000	ng/mL
PFOA	Auto	4.579	880078	3177008	PFOA-13C_IS	----	1.0103	ng/mL
PFOA-13C	Auto	4.579	3177008	4690627	13C7-PFUnDA_IS	----	4.4164	ng/mL
PFOA-13C_IS	Auto	4.579	3177008	3177008	----	----	5.0000	ng/mL
PFNA	Auto	4.753	729000	3064490	PFNA-13C_IS	----	1.1504	ng/mL
PFNA-13C	Auto	4.753	3064490	4690627	13C7-PFUnDA_IS	----	4.9445	ng/mL
PFNA-13C_IS	Auto	4.753	3064490	3064490	----	----	5.0000	ng/mL
PFDA	Auto	4.940	632521	2162385	PFDA-13C_IS	----	1.0376	ng/mL
PFDA-13C	Auto	4.940	2162385	4690627	13C7-PFUnDA_IS	----	5.0182	ng/mL
PFDA-13C_IS	Auto	4.940	2162385	2162385	----	----	5.0000	ng/mL
PFUnA	Auto	5.114	693052	2912864	PFUnA-13C_IS	----	1.0750	ng/mL
PFUnA-13C	Auto	5.114	2912864	4690627	13C7-PFUnDA_IS	----	4.4832	ng/mL
PFUnA-13C_IS	Auto	5.114	2912864	2912864	----	----	5.0000	ng/mL
PFDoA	Auto	5.279	534617	2757148	PFDoA-13C_IS	----	1.0887	ng/mL
PFDoA-13C	Auto	5.278	2757148	4690627	13C7-PFUnDA_IS	----	3.8472	ng/mL
PFDoA-13C_IS	Auto	5.278	2757148	2757148	----	----	5.0000	ng/mL
PFTrDA	Auto	5.436	566482	1910941	PFTeDA-13C_IS	----	1.4519	ng/mL
PFTeDA	Auto	5.583	415877	1910941	PFTeDA-13C_IS	----	0.9829	ng/mL
PFTeDA-13C	Auto	5.583	1910941	4690627	13C7-PFUnDA_IS	----	2.6575	ng/mL
PFTeDA-13C_IS	Auto	5.583	1910941	1910941	----	----	5.0000	ng/mL
FOSA	Auto	5.221	85944	362993	FOSA-13C_IS	----	0.9872	ng/mL
FOSA-13C	Auto	5.220	362993	4690627	13C7-PFUnDA_IS	----	1.2167	ng/mL
FOSA-13C_IS	Auto	5.220	362993	362993	----	----	5.0000	ng/mL
N-MeFOSA	M	5.604	31802	54500	N-MeFOSA-d3_IS	----	1.5327	ng/mL
N-MeFOSA-d3	Auto	5.601	54500	4690627	13C7-PFUnDA_IS	----	0.8141	ng/mL
N-MeFOSA-d3_IS	Auto	5.601	54500	54500	----	----	5.0000	ng/mL
N-EtFOSA	M	5.718	44599	56138	N-EtFOSA-d9_IS	----	13.1078	ng/mL
N-EtFOSA-d9	Auto	5.718	56138	4690627	13C7-PFUnDA_IS	----	0.7198	ng/mL
N-EtFOSA-d9_IS	Auto	5.718	56138	56138	----	----	5.0000	ng/mL

210914_023 (continued)

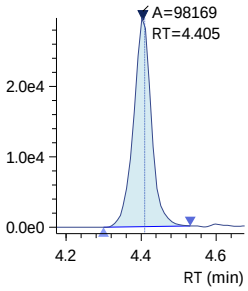
(Table continued from previous page)

Name	Mode ID	Found RT	Area	ISTD Area	ISTD Name	Std. Conc.	Conc.	Unit
N-MeFOSE	M	5.580	30851	70834	N-MeFOSE-d7_IS	----	1.2117	ng/mL
N-MeFOSE-d7	Auto	5.572	70834	4690627	13C7-PFUnDA_IS	----	0.6872	ng/mL
N-MeFOSE-d7_IS	Auto	5.572	70834	70834	----	----	5.0000	ng/mL
N-EtFOSE	M	5.696	32750	276729	N-EtFOSE-d9_IS	----	0.3415	ng/mL
N-EtFOSE-d9	Auto	5.687	276729	4690627	13C7-PFUnDA_IS	----	2.8349	ng/mL
N-EtFOSE-d9_IS	Auto	5.687	276729	276729	----	----	5.0000	ng/mL
N-MeFOSAA	Auto	5.037	99519	408676	N-MeFOSAA-d3_IS	----	1.4644	ng/mL
N-MeFOSAA-d3	Auto	5.035	408676	4690627	13C7-PFUnDA_IS	----	3.4510	ng/mL
N-MeFOSAA-d3_IS	Auto	5.035	408676	408676	----	----	5.0000	ng/mL
N-EtFOSAA	Auto	5.130	86085	512400	N-EtFOSAA-d5_IS	----	1.1299	ng/mL
N-EtFOSAA-d5	Auto	5.126	512400	4690627	13C7-PFUnDA_IS	----	5.1169	ng/mL
N-EtFOSAA-d5_IS	Auto	5.126	512400	512400	----	----	5.0000	ng/mL
4_2-FTS_1	Auto	4.199	195908	898789	4_2-FTS-13C_IS	----	1.2071	ng/mL
4_2-FTS-13C	Auto	4.200	898789	4690627	13C7-PFUnDA_IS	----	8.0980	ng/mL
4_2-FTS-13C_IS	Auto	4.200	898789	898789	----	----	5.0000	ng/mL
6_2-FTS_1	Auto	4.571	201614	684747	6_2-FTS-13C_IS	----	1.1284	ng/mL
6_2-FTS-13C	Auto	4.570	684747	4690627	13C7-PFUnDA_IS	----	7.3021	ng/mL
6_2-FTS-13C_IS	Auto	4.570	684747	684747	----	----	5.0000	ng/mL
8_2-FTS_1	Auto	4.938	127561	638950	8_2-FTS-13C_IS	----	1.0449	ng/mL
8_2-FTS-13C	Auto	4.939	638950	4690627	13C7-PFUnDA_IS	----	9.3730	ng/mL
8_2-FTS-13C_IS	Auto	4.939	638950	638950	----	----	5.0000	ng/mL
10_2-FtS_1	Auto	5.283	105106	638950	8_2-FTS-13C_IS	----	1.0606	ng/mL
HFPO_DA	M	4.292	93988	501844	HFPO_DA-13C_IS	----	0.9368	ng/mL
HFPO_DA-13C	Auto	4.292	501844	4690627	13C7-PFUnDA_IS	----	4.9929	ng/mL
HFPO_DA-13C_IS	Auto	4.292	501844	501844	----	----	5.0000	ng/mL

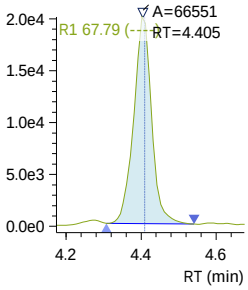


210914_023 (continued)

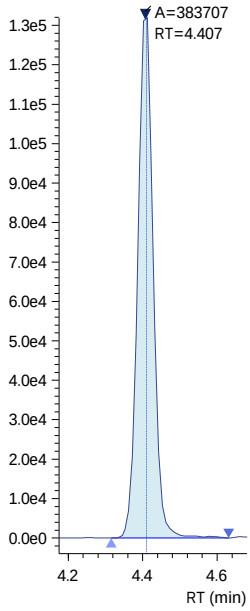
PFHxS_1
Conc 0.7765
R#1 67.79 (62.92)
Q 399.00>80.00 (-) 2.97e4



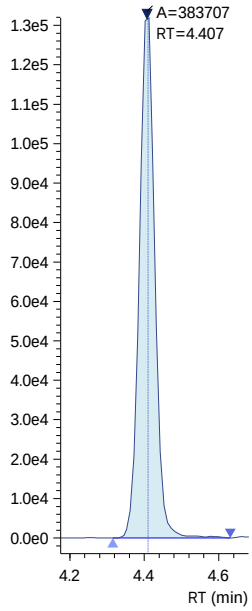
R1 399.00>99.00 (-) 2.02e4



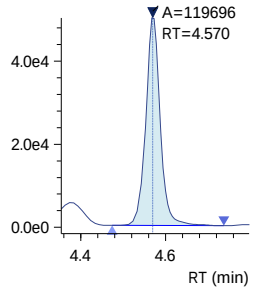
PFHxS-18O
Conc 5.2750
Q 402.70>84.05 (-) 1.32e5



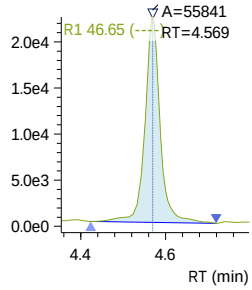
PFHxS-18O_IS
Conc 5.0000
ISTD 402.70>84.05 (-) 1.32e5



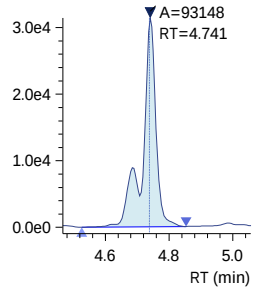
PFHpS_1
Conc 0.9079
R#1 46.65 (40.53)
Q 449.00>80.15 (-) 5.04e4



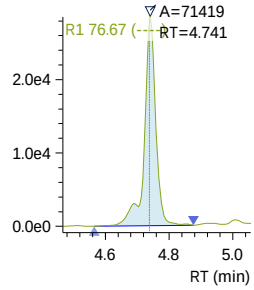
R1 449.00>99.20 (-) 2.27e4



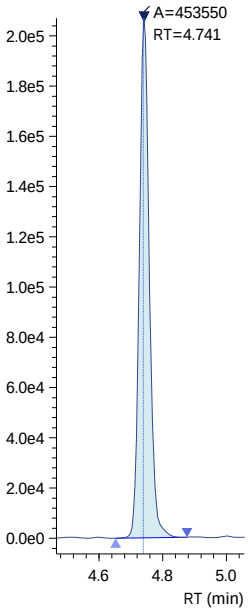
PFOS_1
Conc 1.0974
R#1 76.67 (73.81)
Q 499.00>80.00 (-) 3.15e4



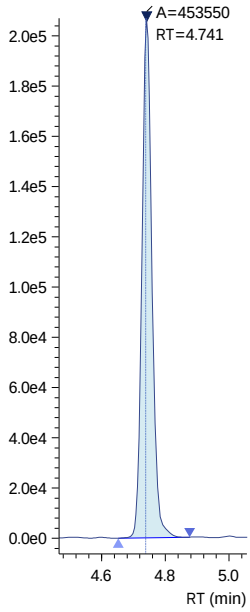
R1 499.00>99.00 (-) 2.86e4



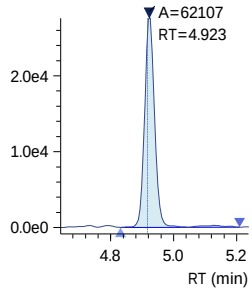
PFOS-13C
Conc 4.5627
Q 502.80>80.05 (-) 2.07e5



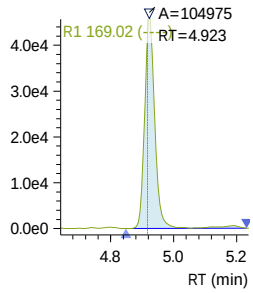
PFOS-13C_IS
Conc 5.0000
ISTD 502.80>80.05 (-) 2.07e5



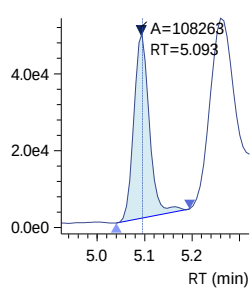
PFNS
Conc 1.0075
R#1 169.02 (160.25)
Q 549.00>99.00 (-) 2.76e4



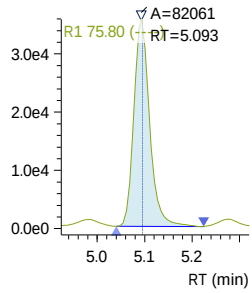
R1 549.00>79.95 (-) 4.57e4



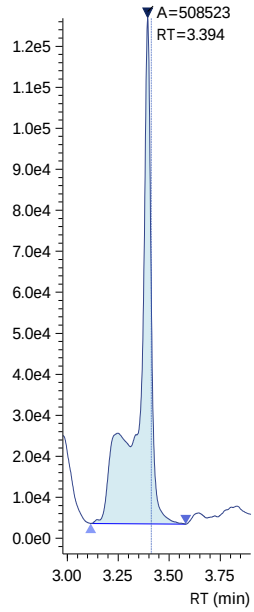
PFDS_1
Conc 1.0139
R#1 75.80 (72.12)
Q 599.00>79.90 (-) 5.44e4



R1 599.00>99.10 (-) 3.60e4

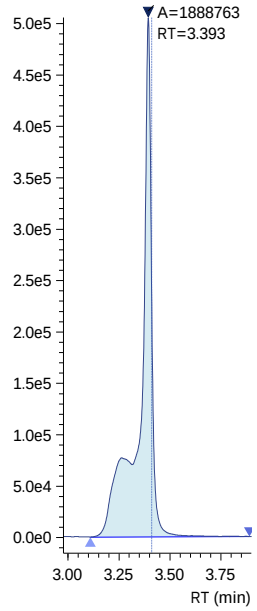


PFBA
Conc 1.1927
Q 213.00>169.10 (-) 1.27e5



210914_023 (continued)

PFBA-13C
Conc 5.1623
Q 216.90>172.15 (-) 5.06e5



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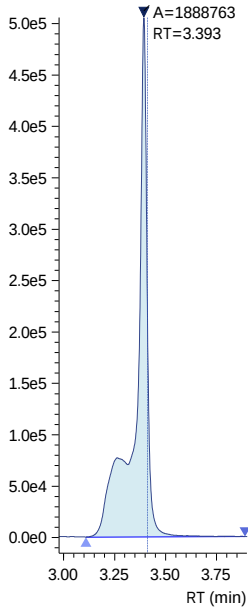
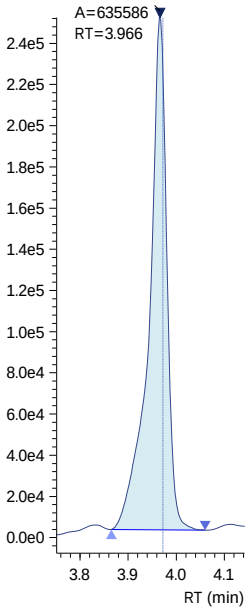
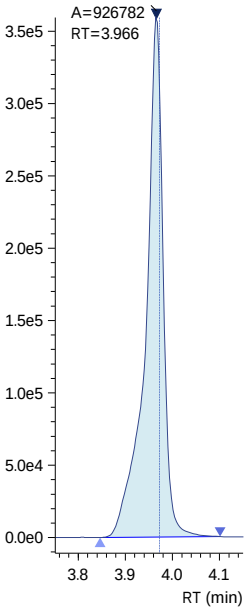
Conc 5.0000
ISTD 216.90>172.15 (-) 5.06e5



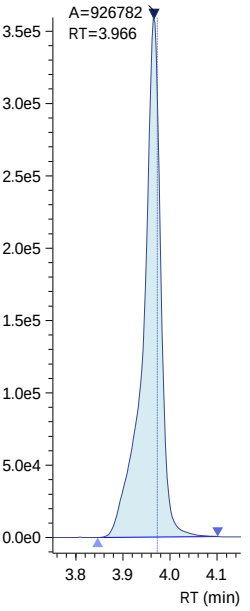
PFPeA
Conc 1.0933
Q 263.05>219.10 (-) 2.53e5



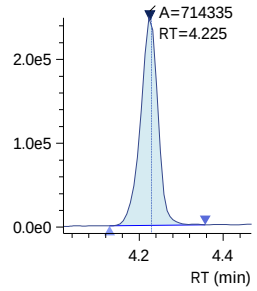
PFPeA-13C
Conc 4.4322
Q 267.90>223.00 (-) 3.59e5



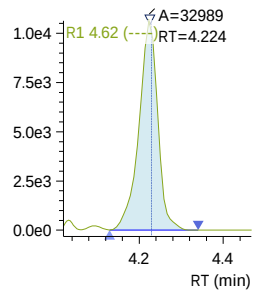
PFPeA-13C_IS
Conc 5.0000
ISTD 267.90>223.00 (-) 3.59e5



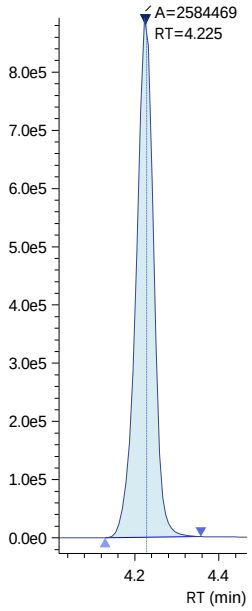
PFHxA
Conc 1.0578
R#1 4.62 (4.40)
Q 313.00>269.00 (-) 2.50e5



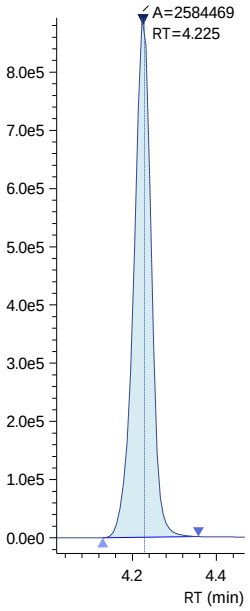
R1 313.00>119.10 (-) 1.06e4



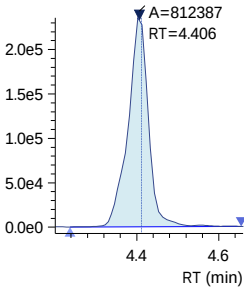
PFHxA-13C
Conc 4.3558
Q 314.90>270.10 (-) 8.93e5



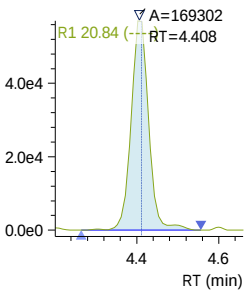
PFHxA-13C_IS
Conc 5.0000
ISTD 314.90>270.10 (-) 8.93e5



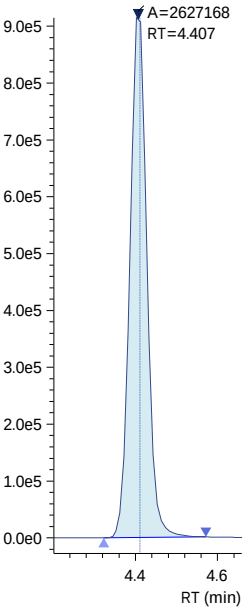
PFHpA
Conc 1.2817
R#1 20.84 (24.40)
Q 362.90>319.00 (-) 2.36e5



R1 362.90>169.00 (-) 5.70e4



PFHpA-13C
Conc 4.8824
Q 366.90>322.10 (-) 9.15e5



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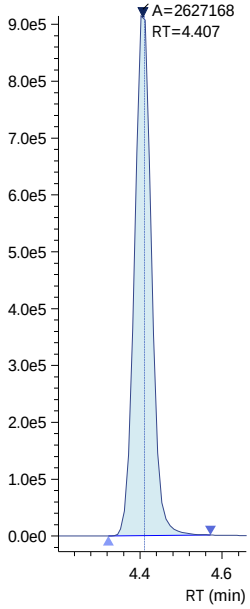
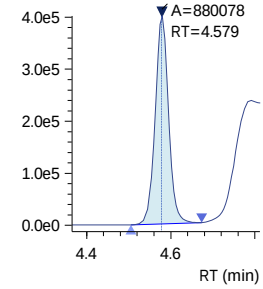
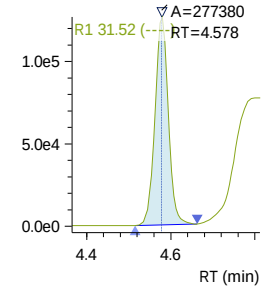
PFHpA-13C_IS
Conc 5.0000
ISTD 366.90>322.10 (-) 9.15e5



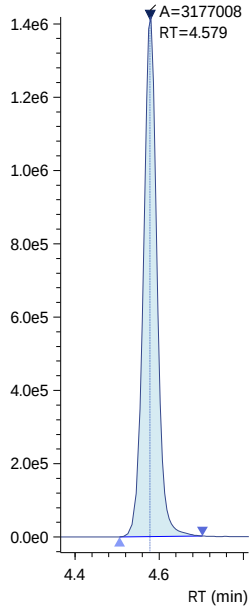
PFOA
Conc 1.0103
R#1 31.52 (31.89)
Q 413.00>369.00 (-) 4.02e5



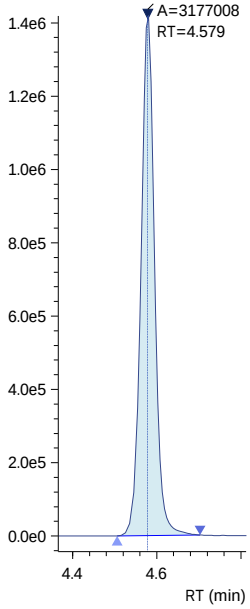
R1 413.00>169.10 (-) 1.27e5



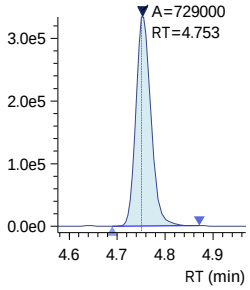
PFOA-13C
Conc 4.4164
Q 416.80>372.05 (-) 1.42e6



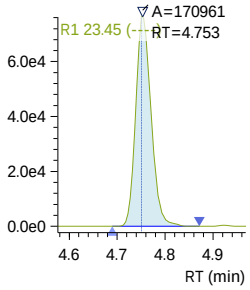
PFOA-13C_IS
Conc 5.0000
ISTD 416.80>372.05 (-) 1.42e6



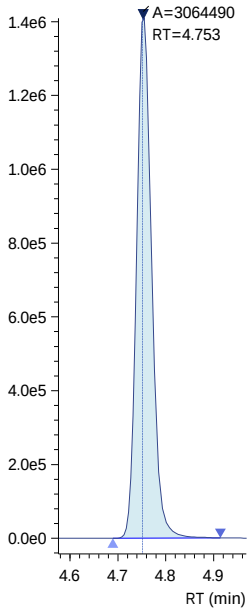
PFNA
Conc 1.1504
R#1 23.45 (23.25)
Q 463.00>418.90 (-) 3.34e5



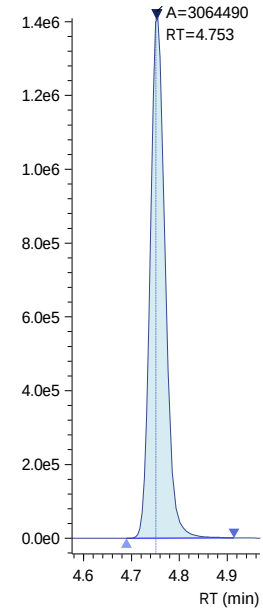
R1 463.00>219.00 (-) 7.63e4



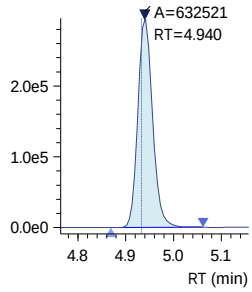
PFNA-13C
Conc 4.9445
Q 467.80>423.00 (-) 1.41e6



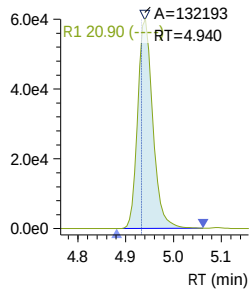
PFNA-13C_IS
Conc 5.0000
ISTD 467.80>423.00 (-) 1.41e6



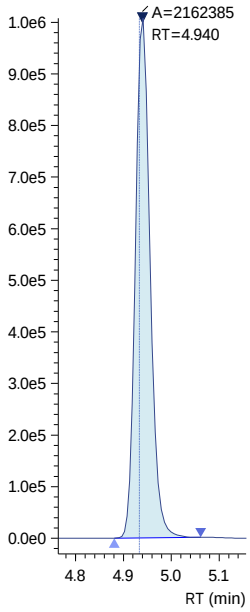
PFDA
Conc 1.0376
R#1 20.90 (20.24)
Q 513.00>468.80 (-) 2.96e5



R1 513.00>219.10 (-) 6.00e4



PFDA-13C
Conc 5.0182
Q 514.80>469.95 (-) 1.01e6



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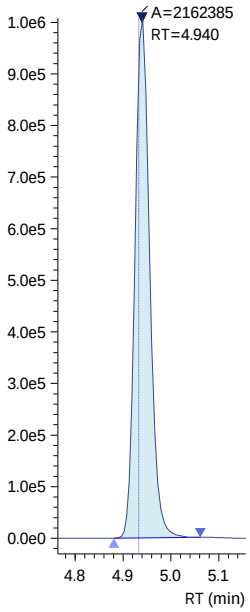
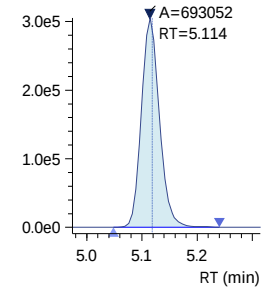
Conc 5.0000
ISTD 514.80>469.95 (-) 1.01e6

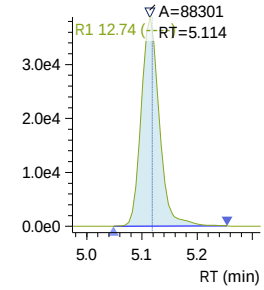


210914_023 (continued)

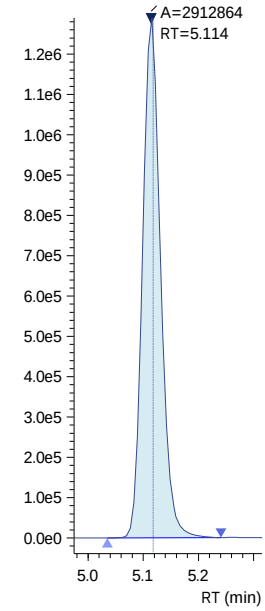
PFUnA
Conc 1.0750
R#1 12.74 (12.46)
Q 563.00>518.90 (-) 3.05e5



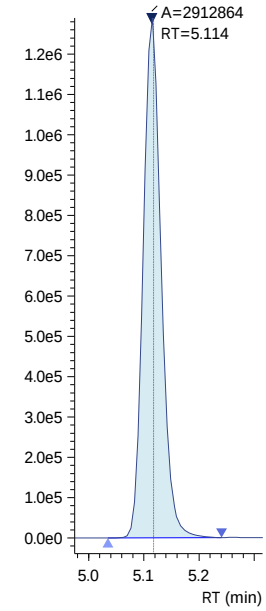
R1 563.00>219.00 (-) 3.88e4



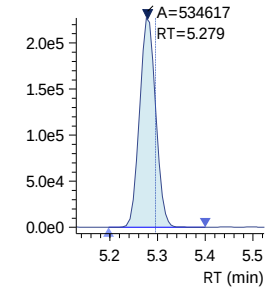
PFUnA-13C
Conc 4.4832
Q 564.80>519.95 (-) 1.29e6



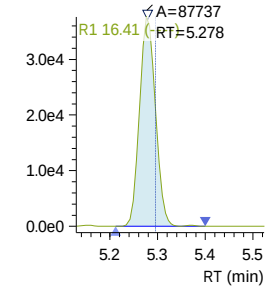
PFUnA-13C_IS
Conc 5.0000
ISTD 564.80>519.95 (-) 1.29e6



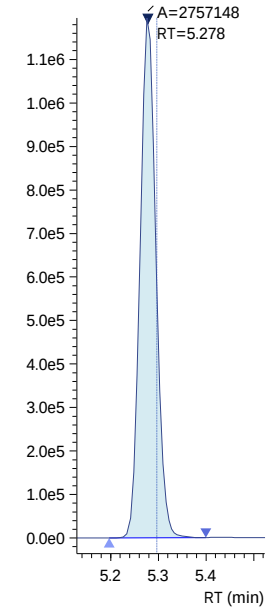
PFDoA
Conc 1.0887
R#1 16.41 (16.50)
Q 613.05>569.00 (-) 2.27e5



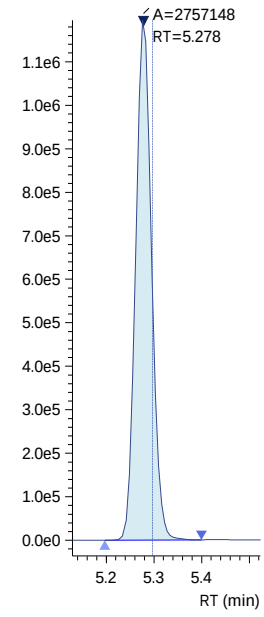
R1 613.05>169.00 (-) 3.76e4



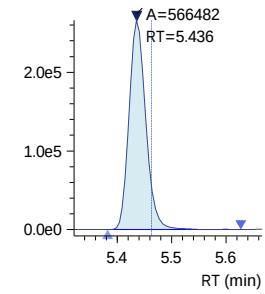
PFDoA-13C
Conc 3.8472
Q 614.80>569.95 (-) 1.20e6



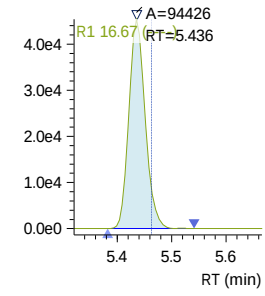
PFDoA-13C_IS
Conc 5.0000
ISTD 614.80>569.95 (-) 1.20e6



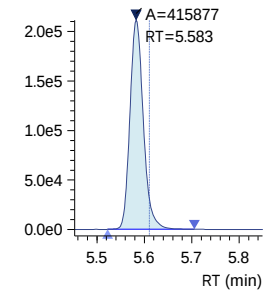
PFTrDA
Conc 1.4519
R#1 16.67 (15.29)
Q 663.00>618.90 (-) 2.66e5



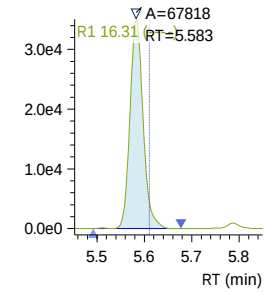
R1 662.90>169.00 (-) 4.54e4



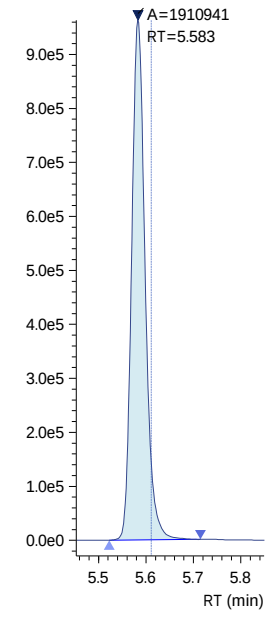
PFTeDA
Conc 0.9829
R#1 16.31 (17.47)
Q 713.00>669.00 (-) 2.11e5



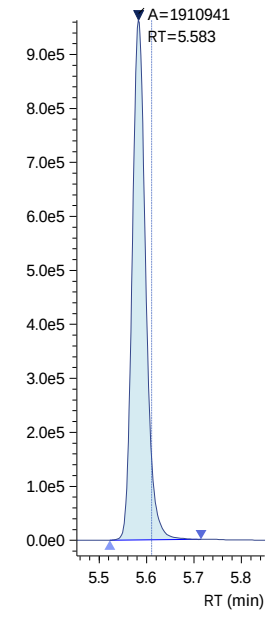
R1 713.00>169.10 (-) 3.50e4



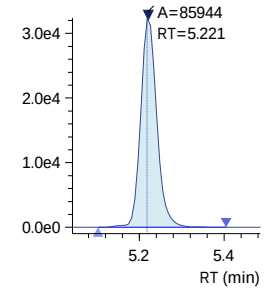
PFTeDA-13C
Conc 2.6575
Q 714.70>669.90 (-) 9.63e5

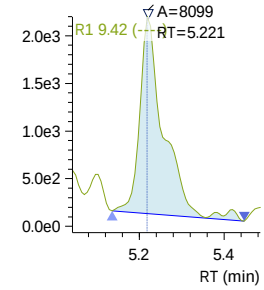


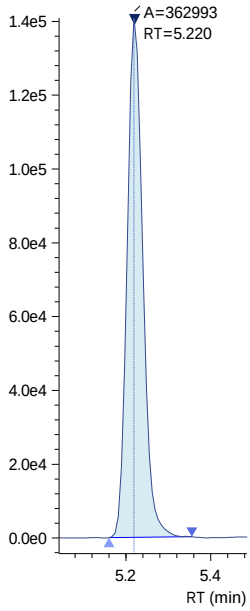
PFTeDA-13C_IS
Conc 5.0000
ISTD 714.70>669.90 (-) 9.63e5

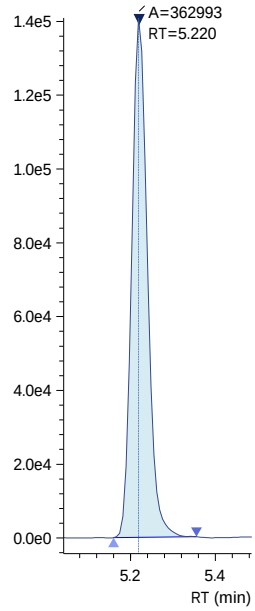


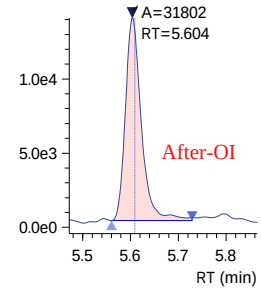
210914_023 (continued)

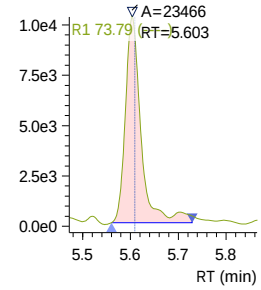
FOSA
Conc 0.9872
R#1 9.42 (5.19)
Q 498.20>78.00 (-) 3.24e4


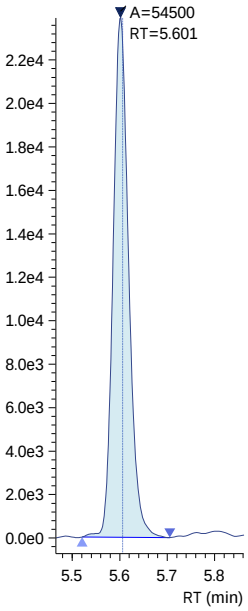
R1 498.20>64.10 (-) 2.20e3


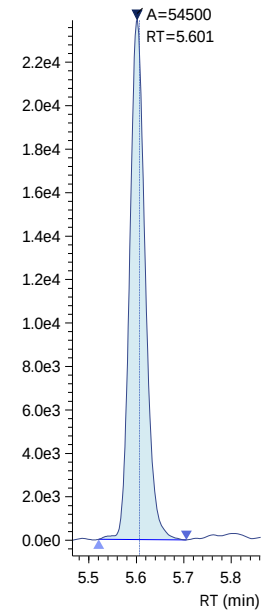
FOSA-13C
Conc 1.2167
Q 506.00>78.05 (-) 1.41e5


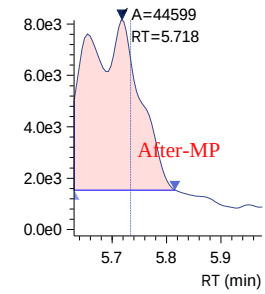
FOSA-13C_IS
Conc 5.0000
ISTD 506.00>78.05 (-) 1.41e5


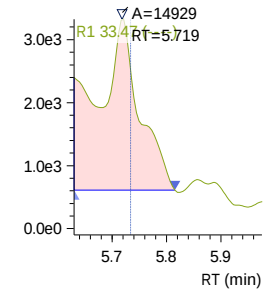
N-MeFOSA
Conc 1.5327
R#1 73.79 (69.94)
Q 512.00>169.10 (-) 1.41e4


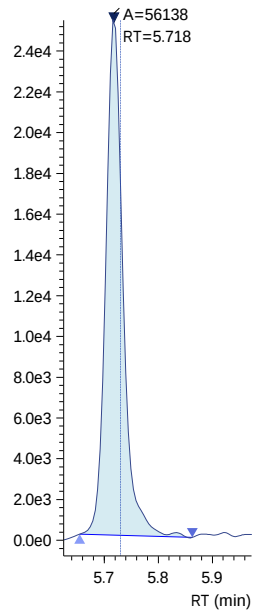
R1 512.00>219.00 (-) 1.04e4


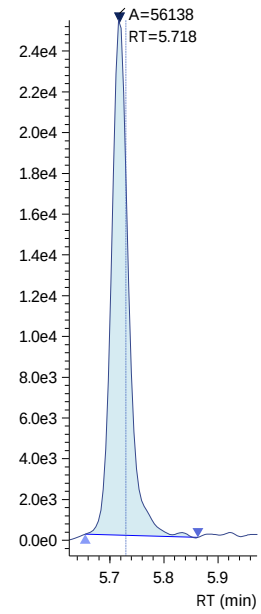
N-MeFOSA-d3
Conc 0.8141
Q 514.90>168.90 (-) 2.39e4


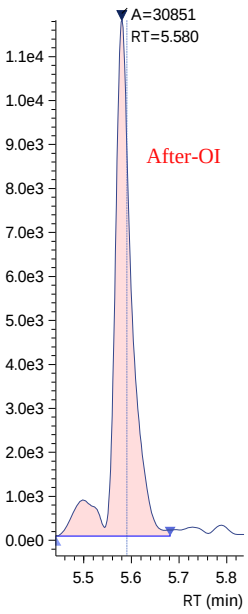
N-MeFOSA-d3_IS
Conc 5.0000
ISTD 514.90>168.90 (-) 2.39e4


N-MeFOSA
Conc 13.1078
R#1 33.47 (66.52)
Q 526.90>169.10 (-) 8.15e3


R1 526.90>219.00 (-) 3.32e3


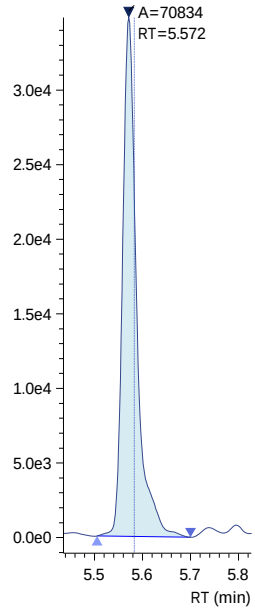
N-EtFOSA-d9
Conc 0.7198
Q 530.90>169.15 (-) 2.55e4


N-EtFOSA-d9_IS
Conc 5.0000
ISTD 530.90>169.15 (-) 2.55e4


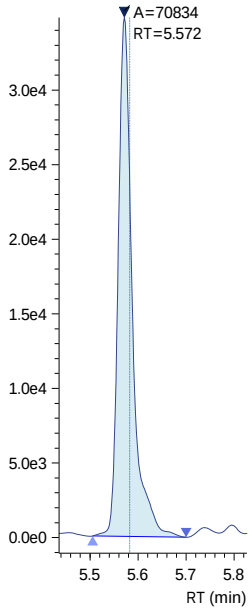
N-MeFOSE
Conc 1.2117
Q 616.00>59.00 (-) 1.18e4


210914_023 (continued)

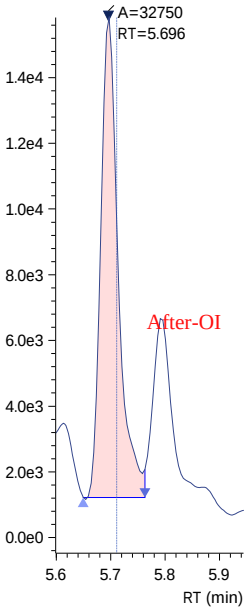
N-MeFOSE-d7
Conc 0.6872
Q 622.70>59.10 (-) 3.49e4



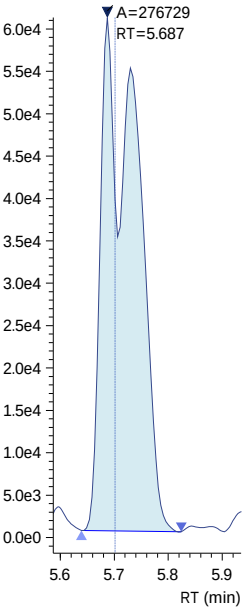
N-MeFOSE-d7_IS
Conc 5.0000
ISTD 622.70>59.10 (-) 3.49e4



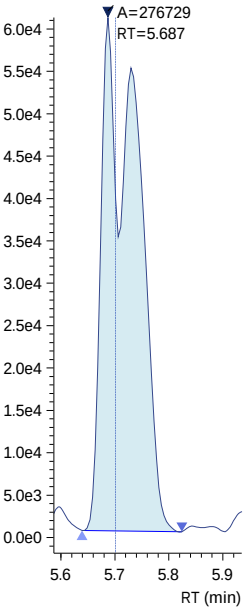
N-EtFOSE
Conc 0.3415
Q 630.00>58.90 (-) 1.58e4



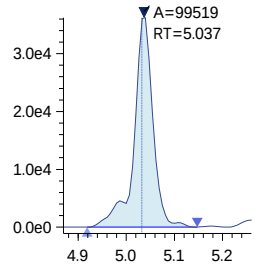
N-EtFOSE-d9
Conc 2.8349
Q 638.70>59.10 (-) 6.13e4



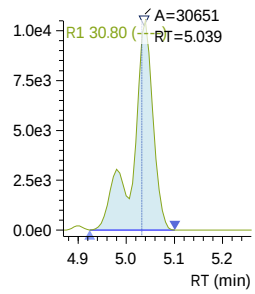
N-EtFOSE-d9_IS
Conc 5.0000
ISTD 638.70>59.10 (-) 6.13e4



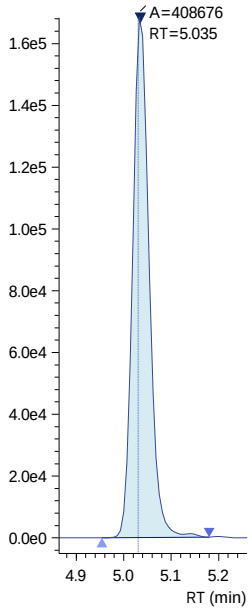
N-MeFOSAA
Conc 1.4644
R#1 30.80 (39.56)
Q 570.20>419.00 (-) 3.62e4



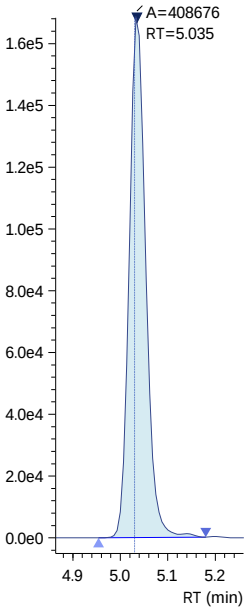
R1 570.20>512.00 (-) 1.05e4



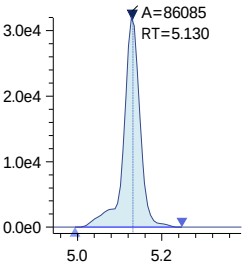
N-MeFOSAA-d3
Conc 3.4510
Q 572.80>419.05 (-) 1.68e5



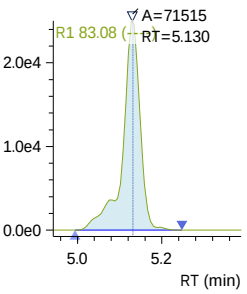
N-MeFOSAA-d3_IS
Conc 5.0000
ISTD 572.80>419.05 (-) 1.68e5



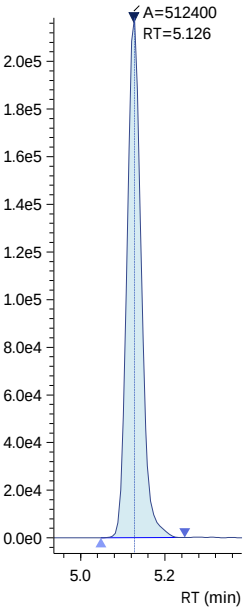
N-EtFOSAA
Conc 1.1299
R#1 83.08 (84.54)
Q 584.20>418.95 (-) 3.20e4



R1 584.20>526.10 (-) 2.50e4

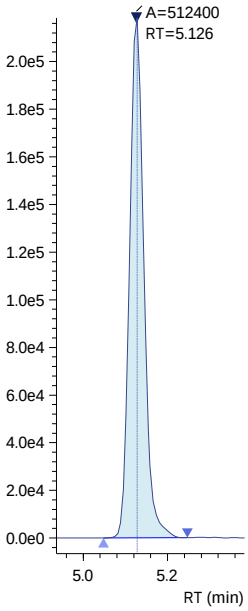


N-EtFOSAA-d5
Conc 5.1169
Q 588.80>419.00 (-) 2.18e5

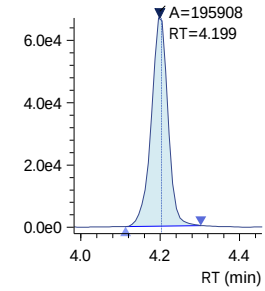


210914_023 (continued)

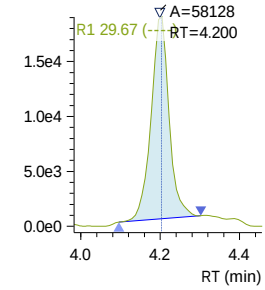
N-EtFOSAA-d5_IS
Conc 5.0000
ISTD 588.80>419.00 (-) 2.18e5



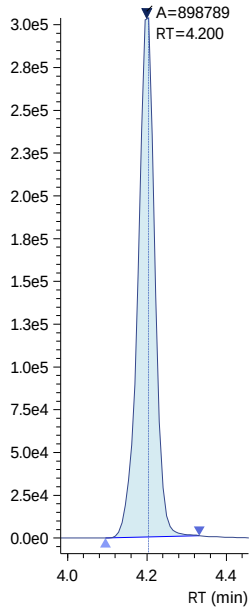
4_2-FTS_1
Conc 1.2071
R#1 29.67 (34.12)
Q 327.00>307.05 (-) 6.72e4



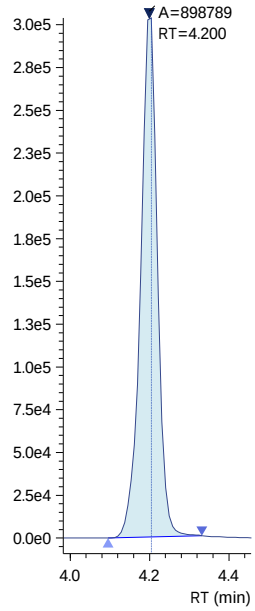
R1 327.00>81.10 (-) 1.91e4



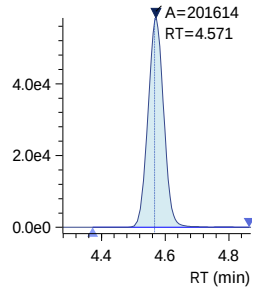
4_2-FTS-13C
Conc 8.0980
Q 328.80>309.05 (-) 3.04e5



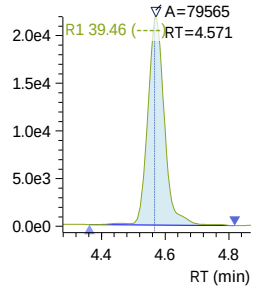
4_2-FTS-13C_IS
Conc 5.0000
ISTD 328.80>309.05 (-) 3.04e5



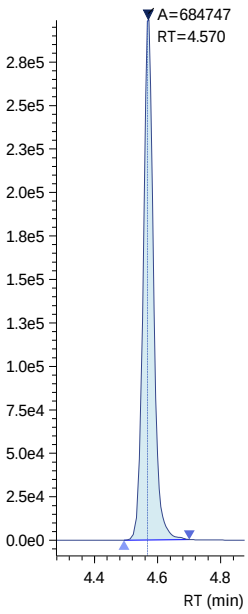
6_2-FTS_1
Conc 1.1284
R#1 39.46 (37.36)
Q 427.00>407.00 (-) 5.83e4



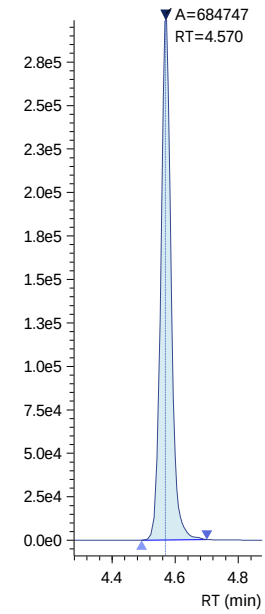
R1 427.00>80.90 (-) 2.20e4



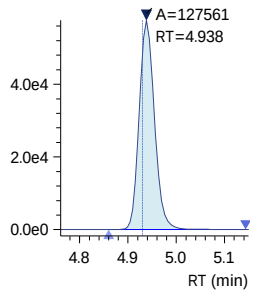
6_2-FTS-13C
Conc 7.3021
Q 428.90>409.00 (-) 2.99e5



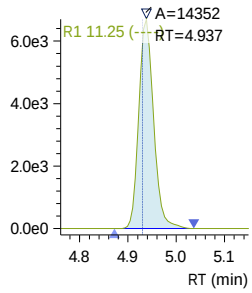
6_2-FTS-13C_IS
Conc 5.0000
ISTD 428.90>409.00 (-) 2.99e5



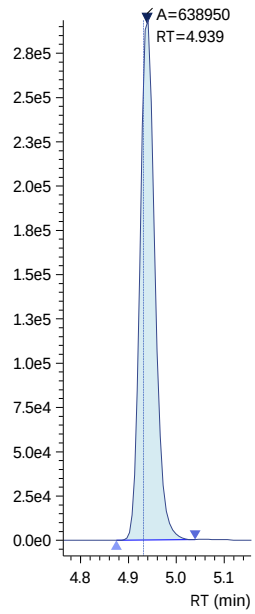
8_2-FTS_1
Conc 1.0449
R#1 11.25 (10.63)
Q 527.10>506.90 (-) 5.76e4



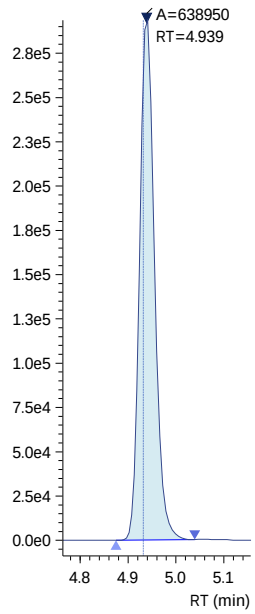
R1 527.20>487.00 (-) 6.70e3



8_2-FTS-13C
Conc 9.3730
Q 528.80>509.00 (-) 2.94e5

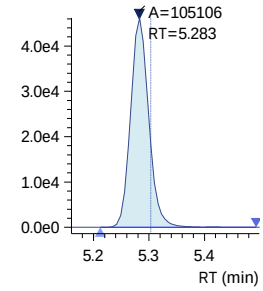


8_2-FTS-13C_IS
Conc 5.0000
ISTD 528.80>509.00 (-) 2.94e5

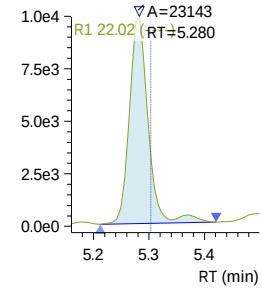


210914_023 (continued)

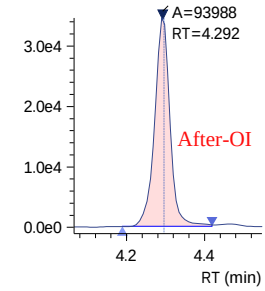
10_2-FtS_1
Conc 1.0606
R#1 22.02 (21.61)
Q 627.00>606.95 (-) 4.62e4



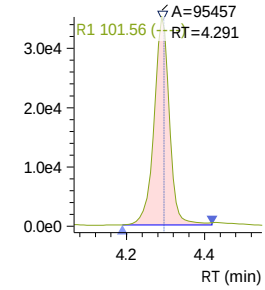
R1 627.00>81.25 (-) 9.97e3



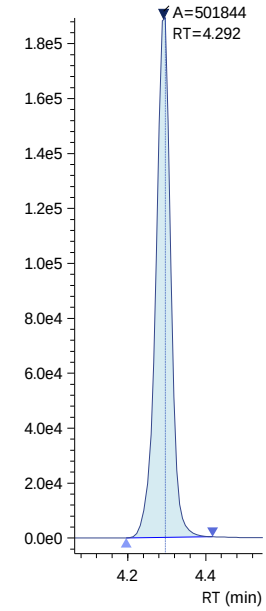
HPFO_DA
Conc 0.9368
R#1 101.56 (106.46)
Q 329.00>169.00 (-) 3.47e4



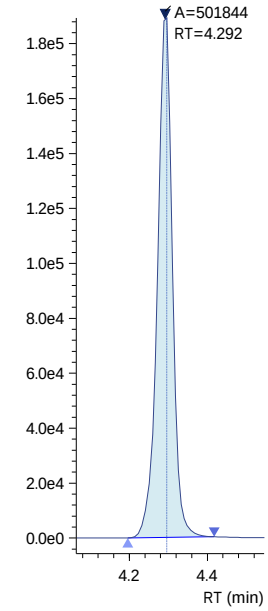
R1 329.00>285.10 (-) 3.53e4



HFPO_DA-13C
Conc 4.9929
Q 332.00>286.80 (-) 1.89e5



HFPO_DA-13C_IS
Conc 5.0000
ISTD 332.00>286.80 (-) 1.89e5

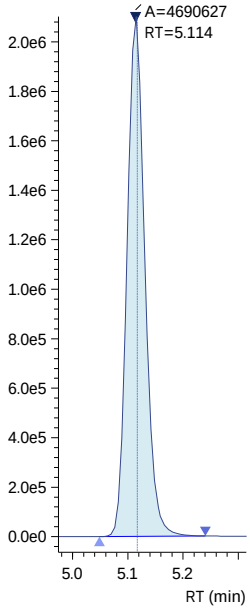


Insight Report
Before Manual Integration
Printed 9/14/2021 18:37:49

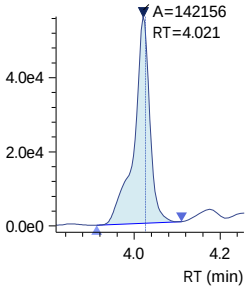
210914_023

Sample ID: KQ2115544-01
Date Acquired: 9/14/2021 2:55:36 PM
Acquired by: System Administrator
Data File: 210914_023
Vial: 7 | Inj. Volume: 15.0000uL | Tray: 3

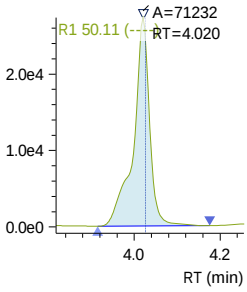
13C7-PFUnDA_IS
Conc 5.0000
ISTD 570.00>525.00 (-) 2.10e6



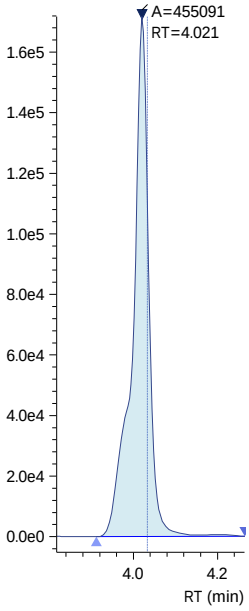
PFBS_1
Conc 0.9227
R#1 50.11 (49.34)
Q 299.00>80.00 (-) 5.65e4



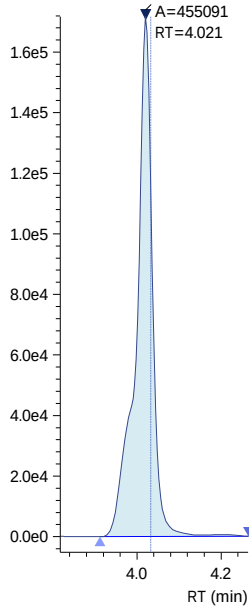
R1 298.80>99.00 (-) 2.74e4



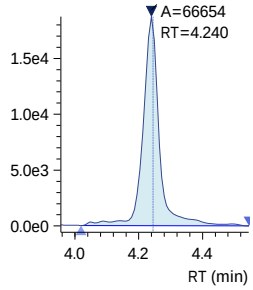
PFBS-13C
Conc 4.4624
Q 301.80>80.00 (-) 1.72e5



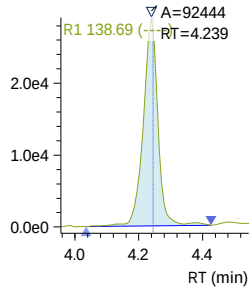
PFBS-13C_IS
Conc 5.0000
ISTD 301.80>80.00 (-) 1.72e5



PFPeS
Conc 1.0200
R#1 138.69 (151.30)
Q 349.00>99.00 (-) 1.87e4



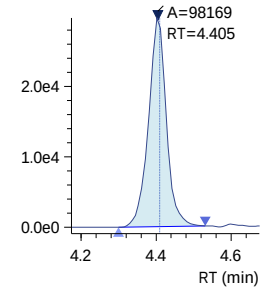
R1 349.00>79.95 (-) 2.91e4



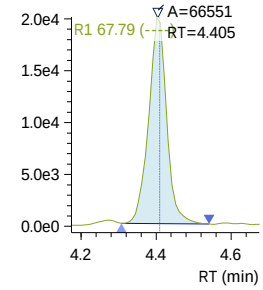
Insight Report
Before Manual Integration
Printed 9/14/2021 18:37:49

210914_023 (continued)

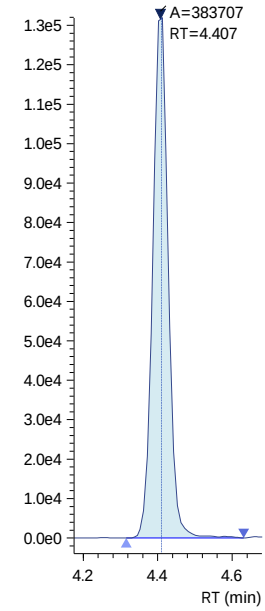
PFHxS_1
Conc 0.7765
R#1 67.79 (62.92)
Q 399.00>80.00 (-) 2.97e4



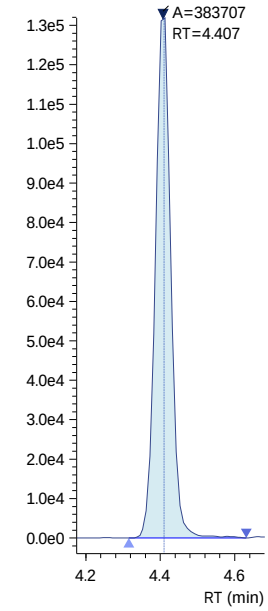
R1 399.00>99.00 (-) 2.02e4



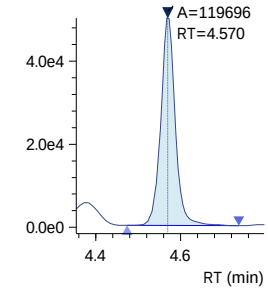
PFHxS-18O
Conc 5.2750
Q 402.70>84.05 (-) 1.32e5



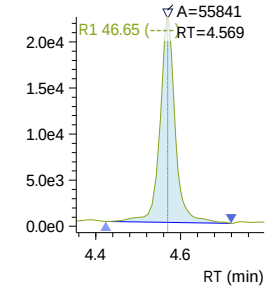
PFHxS-18O_IS
Conc 5.0000
ISTD 402.70>84.05 (-) 1.32e5



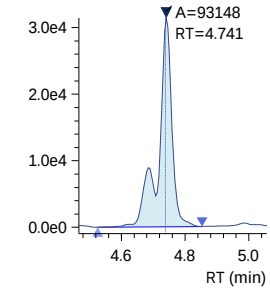
PFHpS_1
Conc 0.9079
R#1 46.65 (40.53)
Q 449.00>80.15 (-) 5.04e4



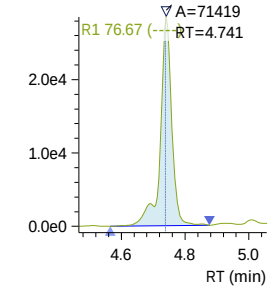
R1 449.00>99.20 (-) 2.27e4



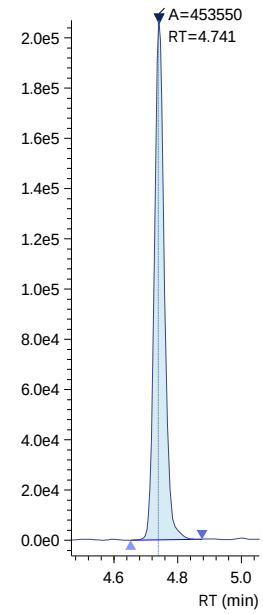
PFOS_1
Conc 1.0974
R#1 76.67 (73.81)
Q 499.00>80.00 (-) 3.15e4



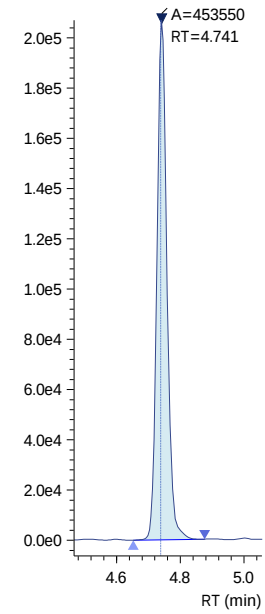
R1 499.00>99.00 (-) 2.86e4



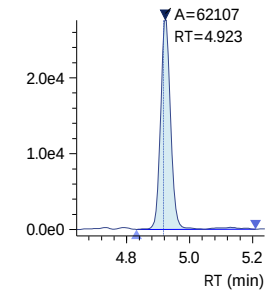
PFOS-13C
Conc 4.5627
Q 502.80>80.05 (-) 2.07e5



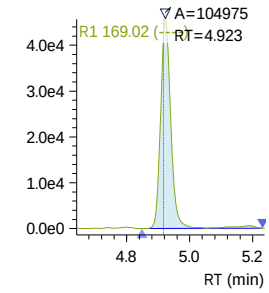
PFOS-13C_IS
Conc 5.0000
ISTD 502.80>80.05 (-) 2.07e5



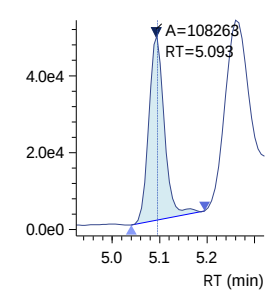
PFNS
Conc 1.0075
R#1 169.02 (160.25)
Q 549.00>99.00 (-) 2.76e4



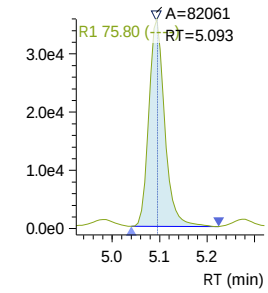
R1 549.00>79.95 (-) 4.57e4



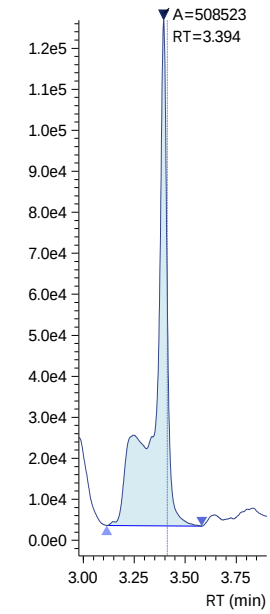
PFDS_1
Conc 1.0139
R#1 75.80 (72.12)
Q 599.00>79.90 (-) 5.44e4



R1 599.00>99.10 (-) 3.60e4

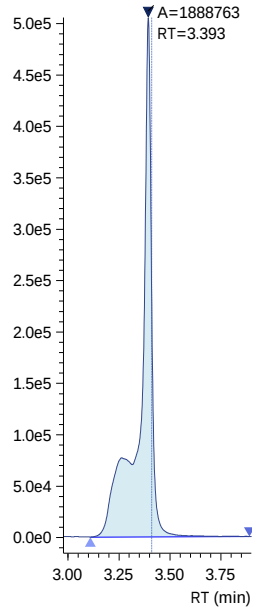


PFBA
Conc 1.1927
Q 213.00>169.10 (-) 1.27e5

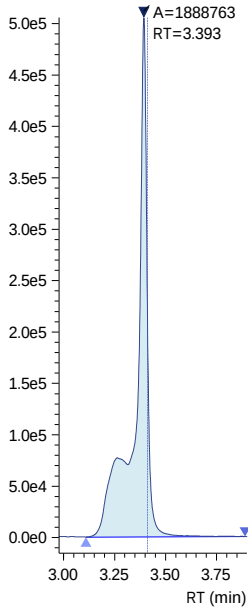


210914_023 (continued)

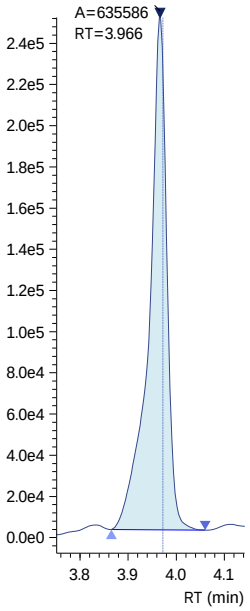
PFBA-13C
Conc 5.1623
Q 216.90>172.15 (-) 5.06e5



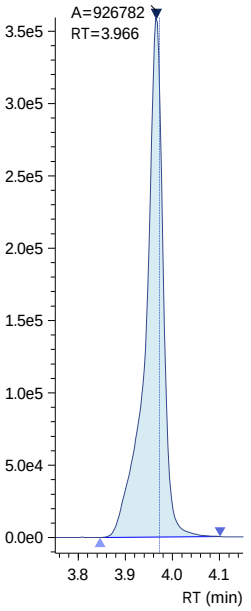
PFBA-13C_IS
Conc 5.0000
ISTD 216.90>172.15 (-) 5.06e5



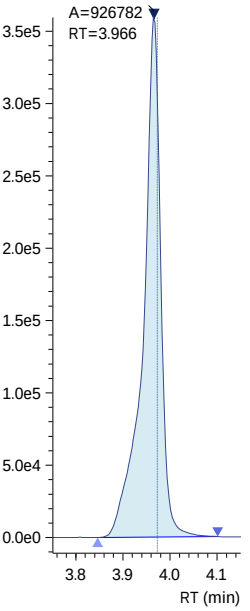
PFPeA
Conc 1.0933
Q 263.05>219.10 (-) 2.53e5



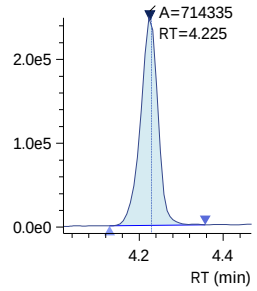
PFPeA-13C
Conc 4.4322
Q 267.90>223.00 (-) 3.59e5



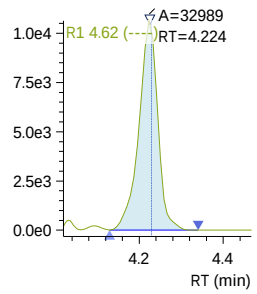
PFPeA-13C_IS
Conc 5.0000
ISTD 267.90>223.00 (-) 3.59e5



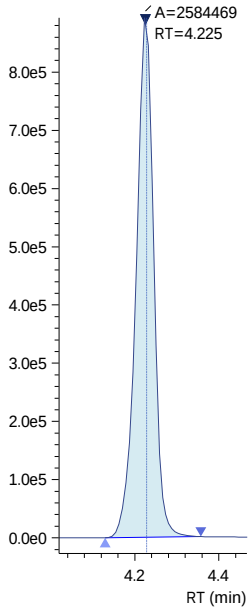
PFHxA
Conc 1.0578
R#1 4.62 (4.40)
Q 313.00>269.00 (-) 2.50e5



R1 313.00>119.10 (-) 1.06e4



PFHxA-13C
Conc 4.3558
Q 314.90>270.10 (-) 8.93e5



PFHxA-13C_IS
Conc 5.0000
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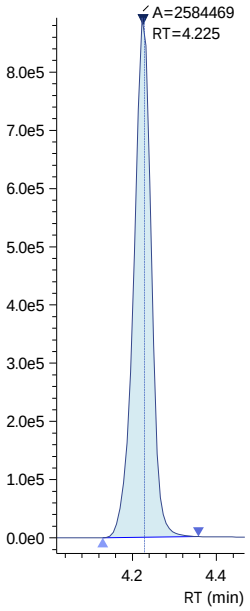
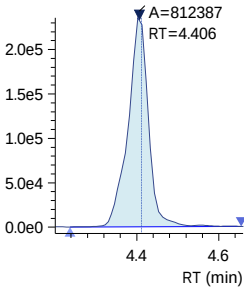
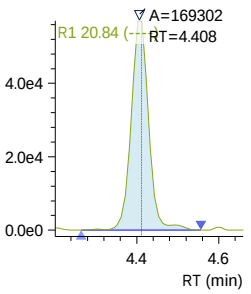


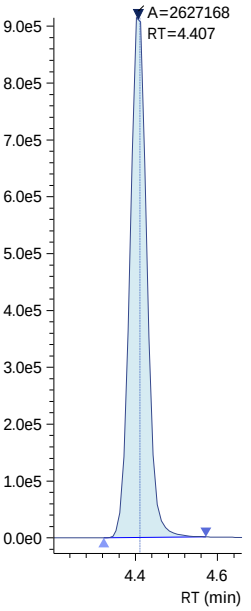
PFHpA
Conc 1.2817
R#1 20.84 (24.40)
Q 362.90>319.00 (-) 2.36e5



R1 362.90>169.00 (-) 5.70e4

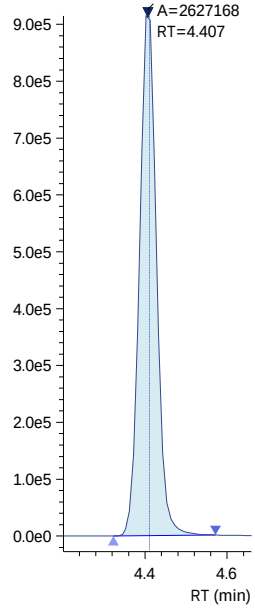


PFHpA-13C
Conc 4.8824
Q 366.90>322.10 (-) 9.15e5

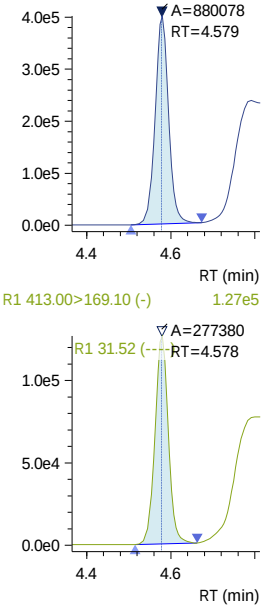


210914_023 (continued)

PFHpA-13C_IS
Conc 5.0000
ISTD 366.90>322.10 (-) 9.15e5

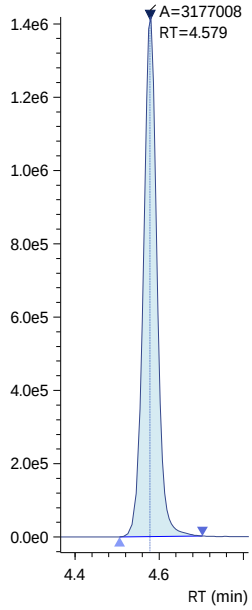


PFOA
Conc 1.0103
R#1 31.52 (31.89)
Q 413.00>369.00 (-) 4.02e5

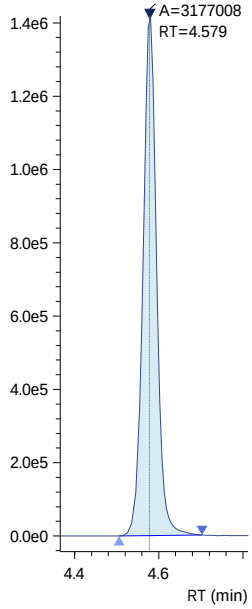


R1 413.00>169.10 (-) 1.27e5

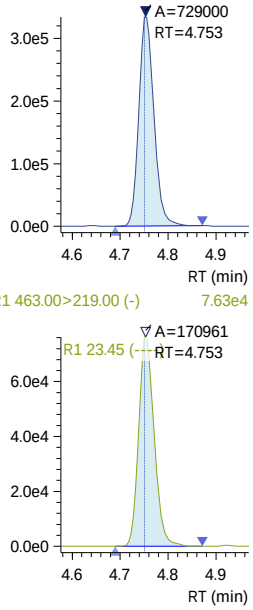
PFOA-13C
Conc 4.4164
Q 416.80>372.05 (-) 1.42e6



PFOA-13C_IS
Conc 5.0000
ISTD 416.80>372.05 (-) 1.42e6

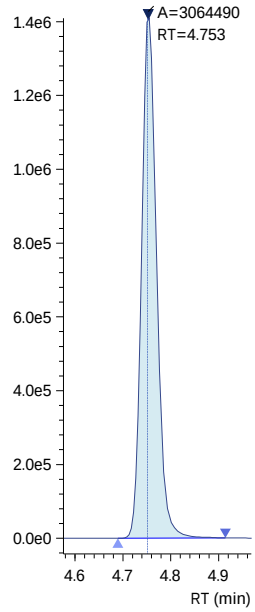


PFNA
Conc 1.1504
R#1 23.45 (23.25)
Q 463.00>418.90 (-) 3.34e5

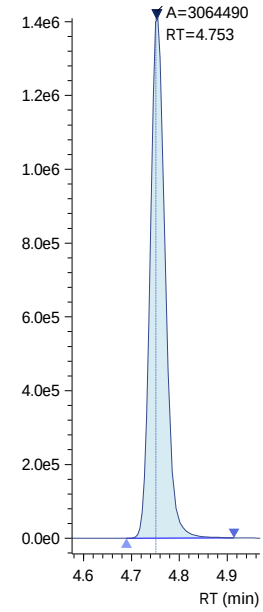


R1 463.00>219.00 (-) 7.63e4

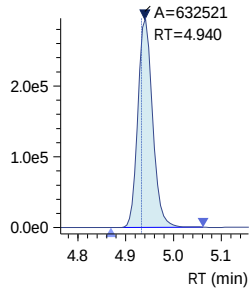
PFNA-13C
Conc 4.9445
Q 467.80>423.00 (-) 1.41e6



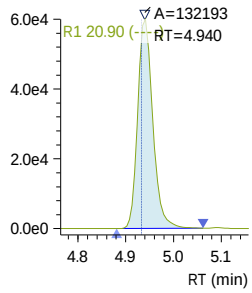
PFNA-13C_IS
Conc 5.0000
ISTD 467.80>423.00 (-) 1.41e6



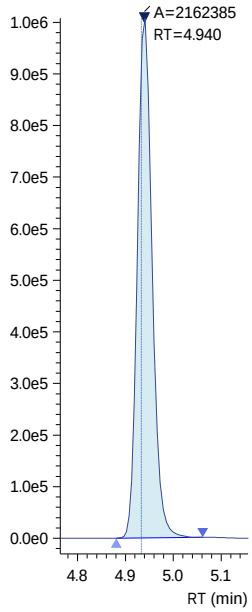
PFDA
Conc 1.0376
R#1 20.90 (20.24)
Q 513.00>468.80 (-) 2.96e5



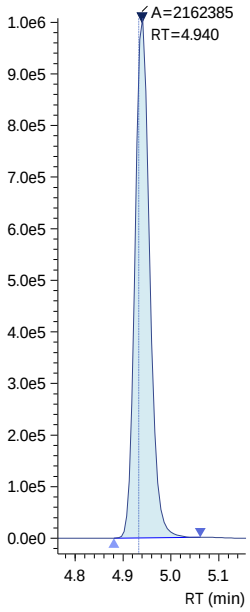
R1 513.00>219.10 (-) 6.00e4



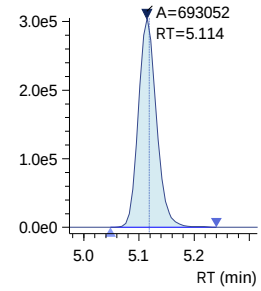
PFDA-13C
Conc 5.0182
Q 514.80>469.95 (-) 1.01e6

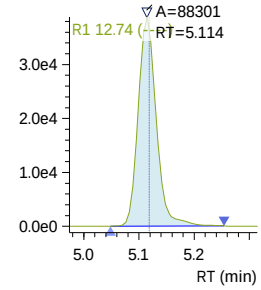


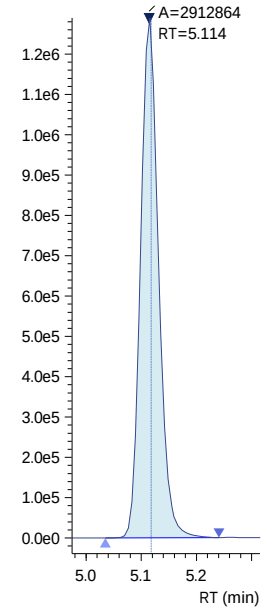
PFDA-13C_IS
Conc 5.0000
ISTD 514.80>469.95 (-) 1.01e6

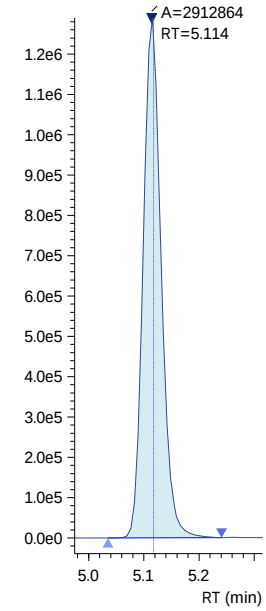


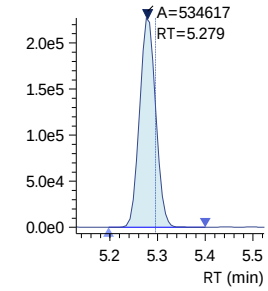
210914_023 (continued)

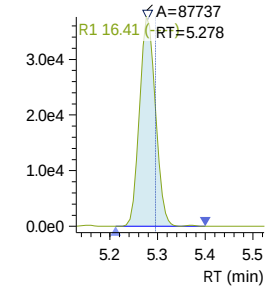
PFUnA
Conc 1.0750
R#1 12.74 (12.46)
Q 563.00>518.90 (-) 3.05e5


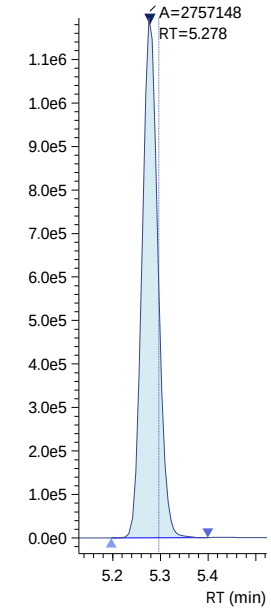
R1 563.00>219.00 (-) 3.88e4


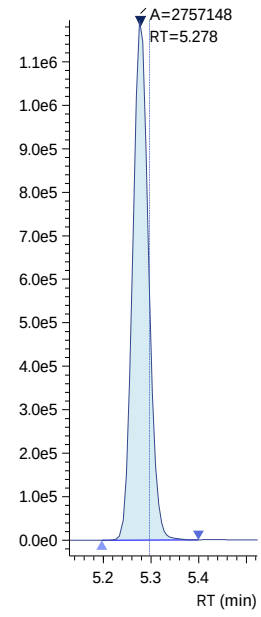
PFUnA-13C
Conc 4.4832
Q 564.80>519.95 (-) 1.29e6


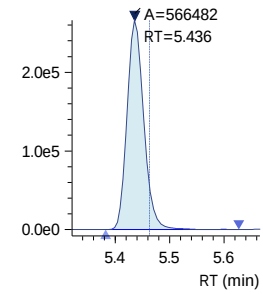
PFUnA-13C_IS
Conc 5.0000
ISTD 564.80>519.95 (-) 1.29e6


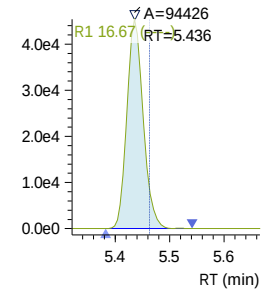
PFDoA
Conc 1.0887
R#1 16.41 (16.50)
Q 613.05>569.00 (-) 2.27e5


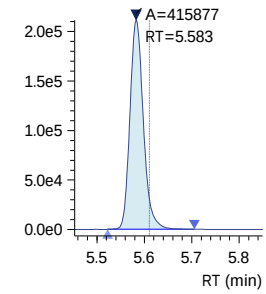
R1 613.05>169.00 (-) 3.76e4


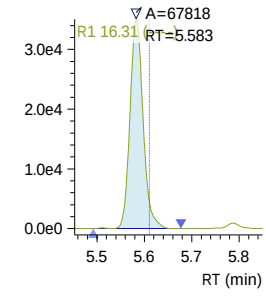
PFDoA-13C
Conc 3.8472
Q 614.80>569.95 (-) 1.20e6


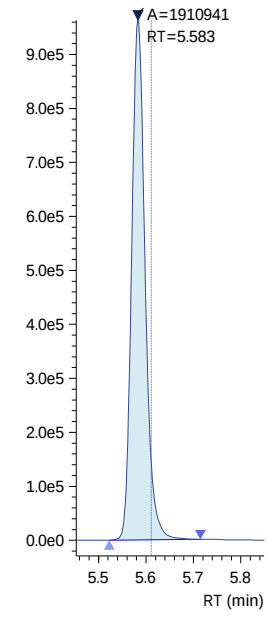
PFDoA-13C_IS
Conc 5.0000
ISTD 614.80>569.95 (-) 1.20e6


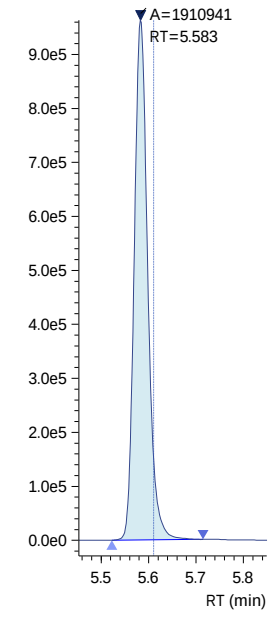
PFTrDA
Conc 1.4519
R#1 16.67 (15.29)
Q 663.00>618.90 (-) 2.66e5


R1 662.90>169.00 (-) 4.54e4


PFTeDA
Conc 0.9829
R#1 16.31 (17.47)
Q 713.00>669.00 (-) 2.11e5


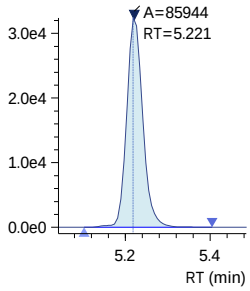
R1 713.00>169.10 (-) 3.50e4


PFTeDA-13C
Conc 2.6575
Q 714.70>669.90 (-) 9.63e5


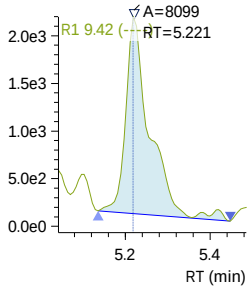
PFTeDA-13C_IS
Conc 5.0000
ISTD 714.70>669.90 (-) 9.63e5


210914_023 (continued)

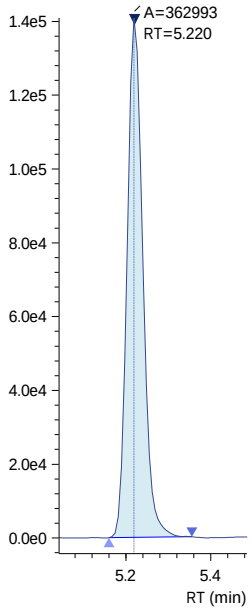
FOSA
Conc 0.9872
R#1 9.42 (5.19)
Q 498.20>78.00 (-) 3.24e4



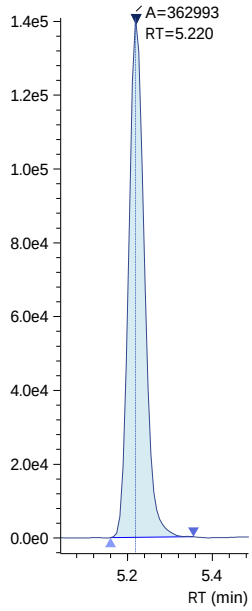
R1 498.20>64.10 (-) 2.20e3



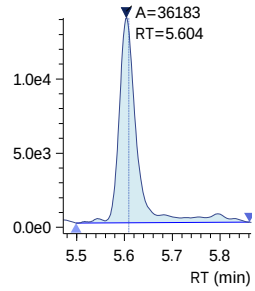
FOSA-13C
Conc 1.2167
Q 506.00>78.05 (-) 1.41e5



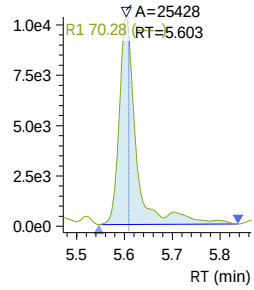
FOSA-13C_IS
Conc 5.0000
ISTD 506.00>78.05 (-) 1.41e5



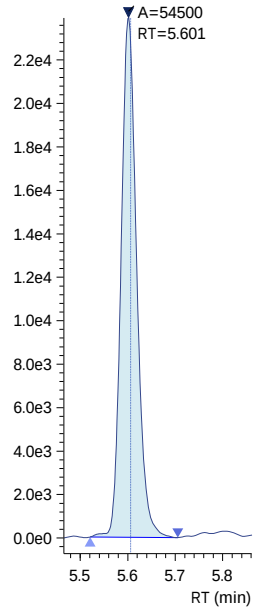
N-MeFOSA
Conc 1.7438
R#1 70.28 (69.94)
Q 512.00>169.10 (-) 1.41e4



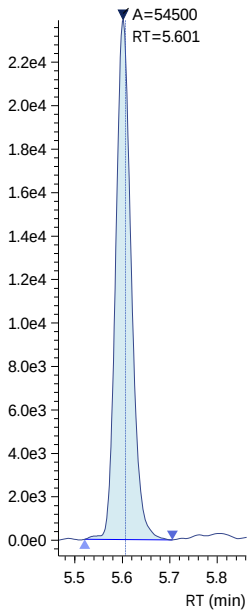
R1 512.00>219.00 (-) 1.04e4



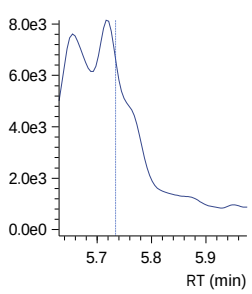
N-MeFOSA-d3
Conc 0.8141
Q 514.90>168.90 (-) 2.39e4



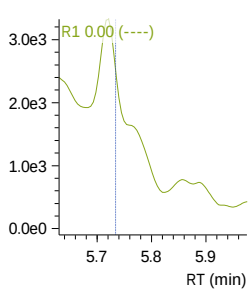
N-MeFOSA-d3_IS
Conc 5.0000
ISTD 514.90>168.90 (-) 2.39e4



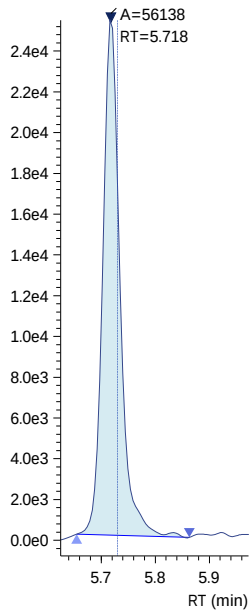
N-EtFOSA
Conc ----
R#1 0.00 (66.52)
Q 526.90>169.10 (-) 8.15e3



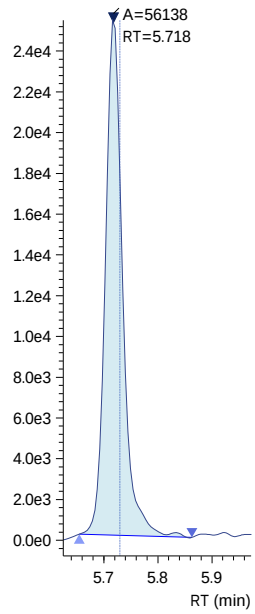
R1 526.90>219.00 (-) 3.32e3



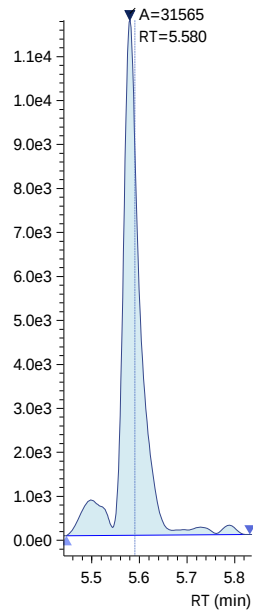
N-EtFOSA-d9
Conc 0.7198
Q 530.90>169.15 (-) 2.55e4



N-EtFOSA-d9_IS
Conc 5.0000
ISTD 530.90>169.15 (-) 2.55e4

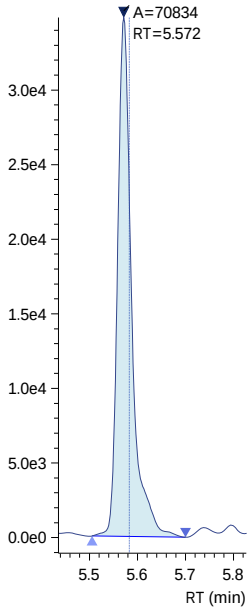


N-MeFOSE
Conc 1.2397
Q 616.00>59.00 (-) 1.18e4

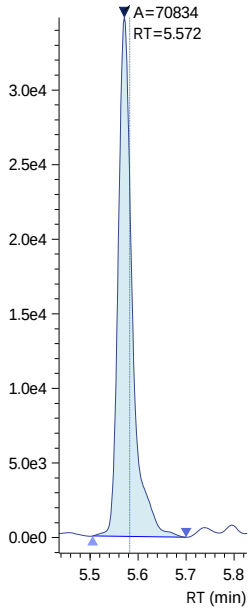


210914_023 (continued)

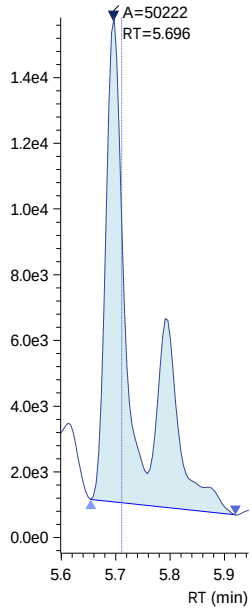
N-MeFOSE-d7
Conc 0.6872
Q 622.70>59.10 (-) 3.49e4



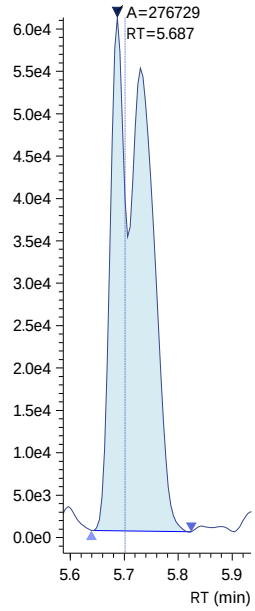
N-MeFOSE-d7_IS
Conc 5.0000
ISTD 622.70>59.10 (-) 3.49e4



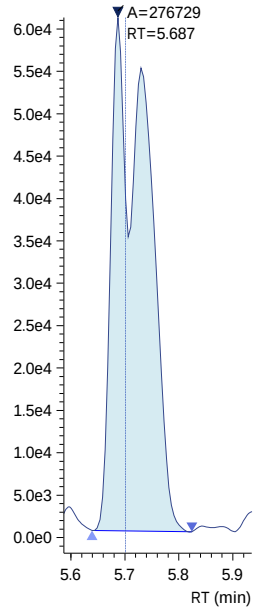
N-EtFOSE
Conc 0.5236
Q 630.00>58.90 (-) 1.58e4



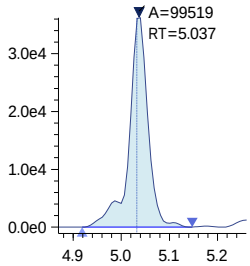
N-EtFOSE-d9
Conc 2.8349
Q 638.70>59.10 (-) 6.13e4



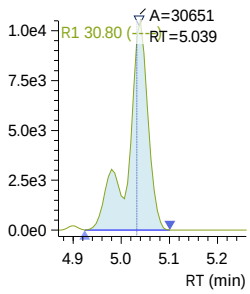
N-EtFOSE-d9_IS
Conc 5.0000
ISTD 638.70>59.10 (-) 6.13e4



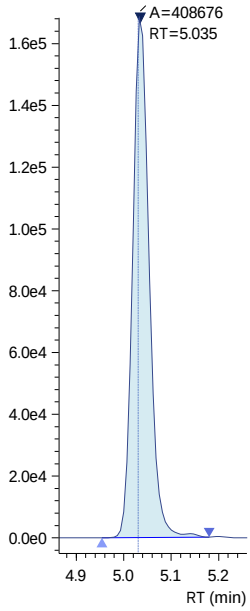
N-MeFOSAA
Conc 1.4644
R#1 30.80 (39.56)
Q 570.20>419.00 (-) 3.62e4



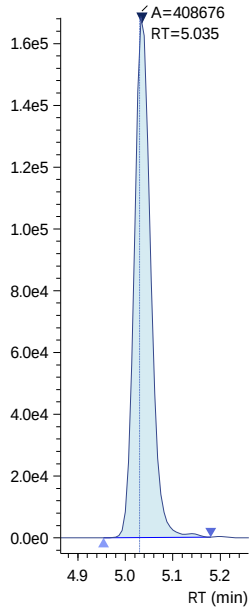
R1 570.20>512.00 (-) 1.05e4



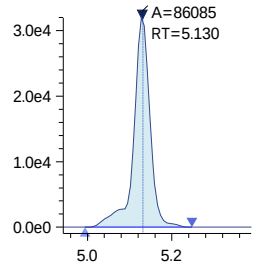
N-MeFOSAA-d3
Conc 3.4510
Q 572.80>419.05 (-) 1.68e5



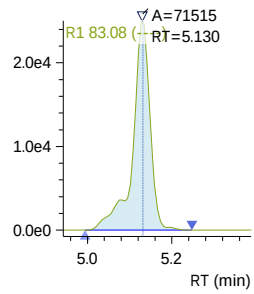
N-MeFOSAA-d3_IS
Conc 5.0000
ISTD 572.80>419.05 (-) 1.68e5



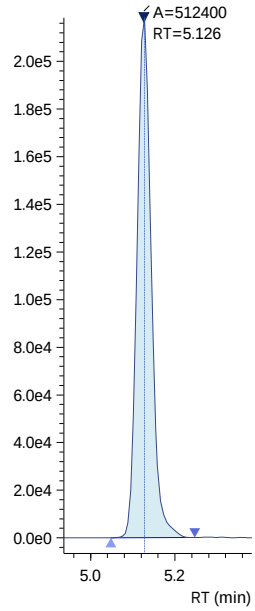
N-EtFOSAA
Conc 1.1299
R#1 83.08 (84.54)
Q 584.20>418.95 (-) 3.20e4



R1 584.20>526.10 (-) 2.50e4



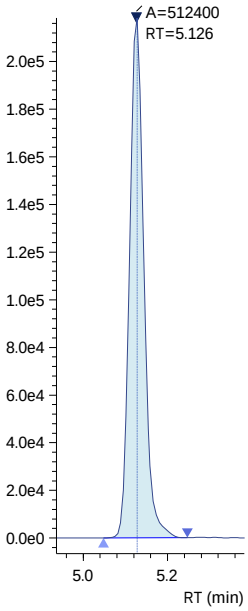
N-EtFOSAA-d5
Conc 5.1169
Q 588.80>419.00 (-) 2.18e5



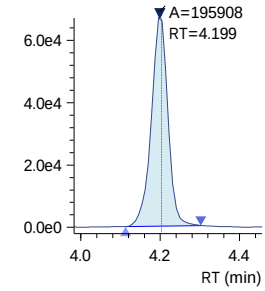
Insight Report
Before Manual Integration
Printed 9/14/2021 18:37:49

210914_023 (continued)

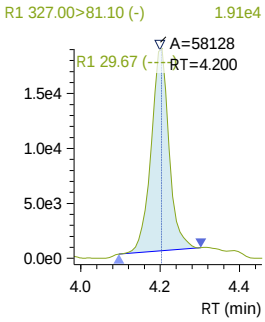
N-EtFOSAA-d5_IS
Conc 5.0000
ISTD 588.80>419.00 (-) 2.18e5



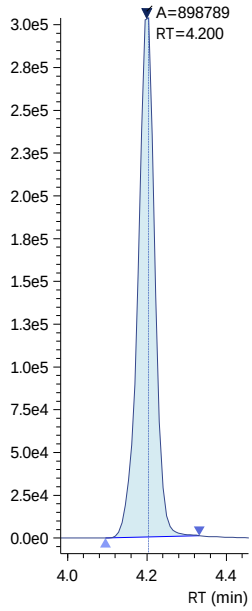
4_2-FTS_1
Conc 1.2071
R#1 29.67 (34.12)
Q 327.00>307.05 (-) 6.72e4



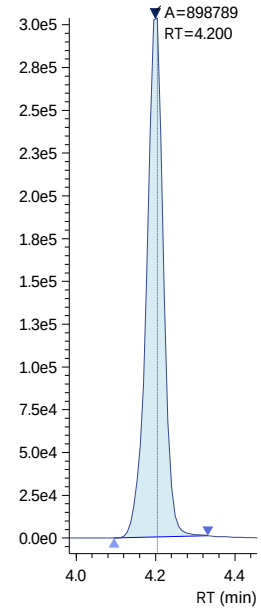
R1 327.00>81.10 (-) 1.91e4



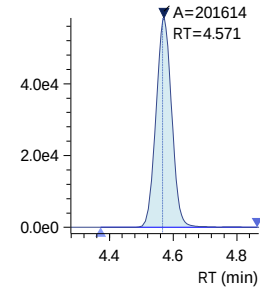
4_2-FTS-13C
Conc 8.0980
Q 328.80>309.05 (-) 3.04e5



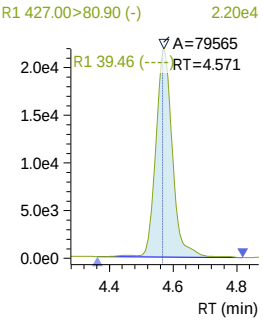
4_2-FTS-13C_IS
Conc 5.0000
ISTD 328.80>309.05 (-) 3.04e5



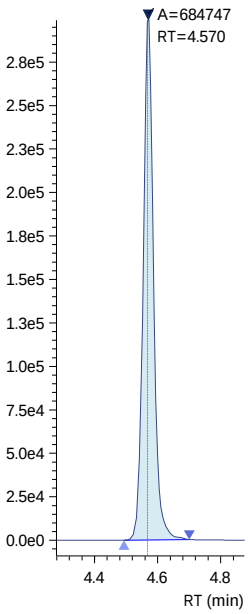
6_2-FTS_1
Conc 1.1284
R#1 39.46 (37.36)
Q 427.00>407.00 (-) 5.83e4



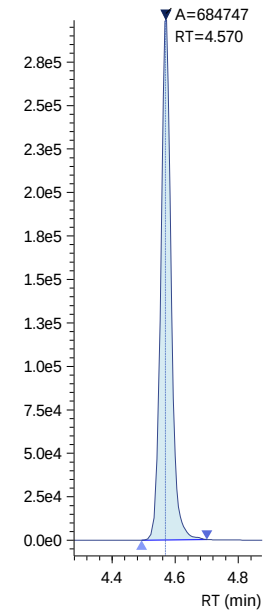
R1 427.00>80.90 (-) 2.20e4



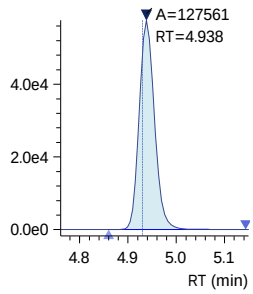
6_2-FTS-13C
Conc 7.3021
Q 428.90>409.00 (-) 2.99e5



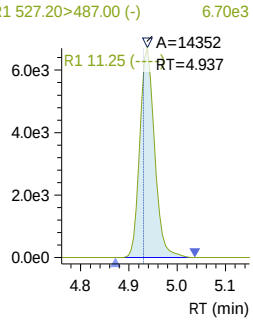
6_2-FTS-13C_IS
Conc 5.0000
ISTD 428.90>409.00 (-) 2.99e5



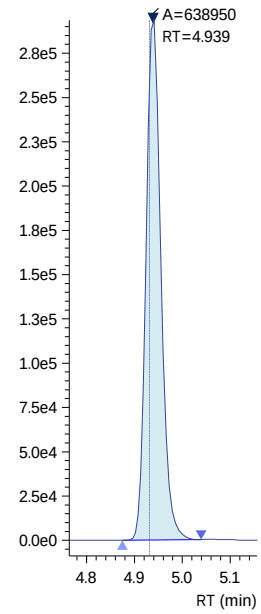
8_2-FTS_1
Conc 1.0449
R#1 11.25 (10.63)
Q 527.10>506.90 (-) 5.76e4



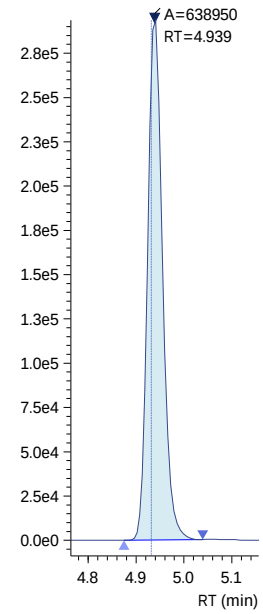
R1 527.20>487.00 (-) 6.70e3



8_2-FTS-13C
Conc 9.3730
Q 528.80>509.00 (-) 2.94e5



8_2-FTS-13C_IS
Conc 5.0000
ISTD 528.80>509.00 (-) 2.94e5



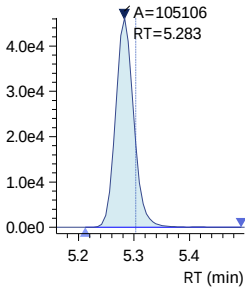
210914_023 (continued)

10_2-FtS_1

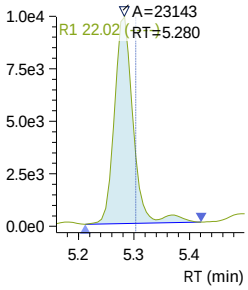
Conc 1.0606

R#1 22.02 (21.61)

Q 627.00>606.95 (-) 4.62e4



R1 627.00>81.25 (-) 9.97e3

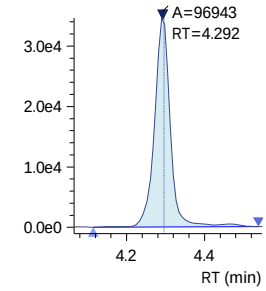


HPFO_DA

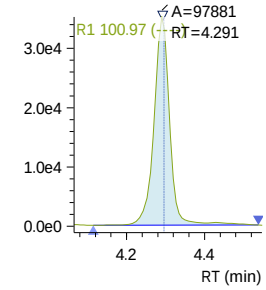
Conc 0.9663

R#1 100.97 (106.46)

Q 329.00>169.00 (-) 3.47e4



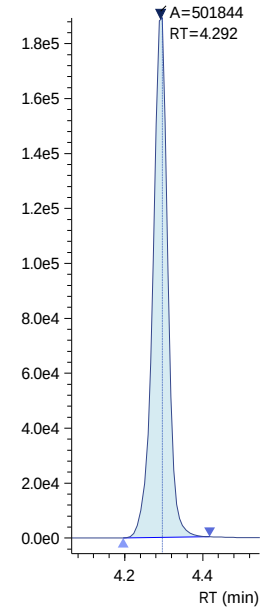
R1 329.00>285.10 (-) 3.53e4



HFPO_DA-13C

Conc 4.9929

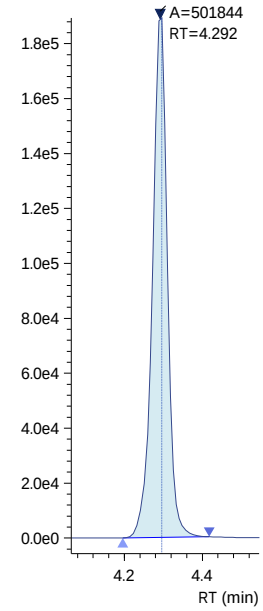
Q 332.00>286.80 (-) 1.89e5



HFPO_DA-13C_IS

Conc 5.0000

ISTD 332.00>286.80 (-) 1.89e5



1st UA 09/15/21
2nd ~~JA~~ 09/16/21

Validation Report

Data File: J:\LCMS06\Data\210914_B1\210914_024
Lab ID: KQ2115544-02
RunType: DMS
Matrix: Soil

Date Acquired: 9/14/21 15:06
Batch ID: 738712
Analysis Method: PFC/537M/PFAS

Validations

Validation Categories	Pass	Fail
Analytical Hold Time	X	
ICAL Analyte Recovery	X	
Second Source ICAL Verification	X	
Continuing Calibration Recovery		X
Internal Standards	X	
Surrogates		X
Std MRL Unsupported by ICAL	X	
Above Highest ICAL Level	X	

Analyte Exceptions

Exception Categories	Analyte Name	Result	Low Limit	High Limit	Corrective Action
Continuing Calibration Recovery	13C2-6:2 FTS	136	70	130	native in control
	13C2-8:2 FTS	148	70	130	native in control
Surrogates	13C4-PFBA	120	34	116	Confirms sample results
	13C8-FOSA	24	40	132	
	D3-MeFOSA	17	51	132	
	D5-EtFOSA	12	49	123	
	D7-MeFOSE	13	53	125	
	13C2-6:2 FTS	171	30	140	
	13C2-8:2 FTS	224	9	171	

Primary Review: _____

Secondary Review: _____

1st UA 09/15/21
2nd 09/16/21

Quantitation Report

Data File:	J:\LCMS06\Data\210914_B1\210914_024	**Instrument:**	K-LCMS-06
Acqu Date:	9/14/21 15:06	**Vial:**	10
Run Type:	DMS	**Dilution:**	1
Lab ID:	KQ2115544-02	**Raw Units:**	ng/mL

Bottle ID:	K2109142-002.02	**Tier:**	IV	**Matrix:**	Soil
Prod Code:	PFAS	**Collect Date:**	8/5/21	**Receive Date:**	8/6/21

Analysis Lot:	738712	**Prep Lot:**	385318	**Report Group:**	KQ2115544
Analysis	PFC/537M	**Prep Method:**	ALS SOP		
		Prep Date:	8/31/21		

Title:	Per- and Polyfluoroalkyl Substances (PFAS) by LC/MS/MS	**Calibration ID:**	KC2100481
		Report List ID:	19837

Internal Standard Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	Area Criteria
13C7-PFUnDA	5.111	-0.01	4309711	5.0000	OK

Surrogate Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	% Rec		% Rec Criteria	Rpt?
13C3-PFBS	4.019	-0.01	473101	5.0490	101		33 - 109	Y
18O2-PFHxS	4.405	-0.01	369684	5.5314	111		36 - 120	Y
13C4-PFOS	4.740	0.00	499584	5.4700	109		32 - 130	Y
13C4-PFBA	3.393	-0.01	2013260	5.9889	120	*	34 - 116	Y
13C5-PFPeA	3.964	-0.01	939837	4.8919	98		39 - 133	Y
13C2-PFHxA	4.222	-0.01	2497450	4.5812	92		32 - 136	Y
13C4-PFHpA	4.406	-0.01	2375918	4.8057	96		36 - 133	Y
13C4-PFOA	4.576	-0.01	3318257	5.0204	100		31 - 134	Y
13C5-PFNA	4.752	0.00	3349335	5.8817	118		27 - 133	Y
13C2-PFDA	4.939	0.00	2344056	5.9206	118		30 - 137	Y
13C2-PFUnDA	5.111	-0.01	3053199	5.1145	102		32 - 146	Y
13C2-PFDoDA	5.274	-0.02	2972309	4.5140	90		36 - 136	Y
13C2-PFTeDA	5.578	-0.01	1843078	2.7897	56		39 - 138	Y
13C8-FOSA	5.220	-0.01	323147	1.1789	24	*	40 - 132	Y
D3-MeFOSA	5.598		50891	0.8274	17	*	51 - 132	Y
D5-EtFOSA	5.714	0.00	42566	0.5941	12	*	49 - 123	Y
D7-MeFOSE	5.568	-0.01	63488	0.6703	13	*	53 - 125	Y
D9-EtFOSE	5.749	+0.06	274450	3.0600	61		45 - 121	Y
13C2-6:2 FTS	4.568	0.00	736947	8.5534	171	*	30 - 140	Y
13C2-8:2 FTS	4.938	0.00	702756	11.2202	224	*	9 - 171	Y

Target Compounds

Final Conc.Units: ng/g

Parameter Name	RT	RT Dev	Response	Solution Conc	Final Conc	Q	Rpt?

1st UA 09/15/21

2nd 09/16/21

Data File:	J:\LCMS06\Data\210914_B1\210914_024	**Instrument:**	K-LCMS-06
Acqu Date:	9/14/21 15:06	**Vial:**	10
Run Type:	DMS	**Dilution:**	1
Lab ID:	KQ2115544-02	**Raw Units:**	ng/mL

Target Compounds

Final Conc.Units: ng/g

Parameter Name	RT	RT Dev	Response	Solution Conc	Final Conc	Q	Rpt?
Perfluorobutane sulfonic acid (PFBS)	4.019	-0.01	161193	1.0064	31.4		Y
Perfluorohexane sulfonic acid (PFHxS)	4.403	-0.01	110060	0.9071	28.3		Y
Perfluoroheptane sulfonic acid (PFHpS)	4.568	-0.01	127577	1.0044	31.4		Y
Perfluorooctane sulfonic acid (PFOS)	4.739	-0.01	102304	1.0942	34.2		Y
Perfluorodecane sulfonic acid (PFDS)	5.090	-0.01	113980	0.9691	30.3		Y
Perfluorobutanoic acid (PFBA)	3.393	-0.01	544283	1.1974	37.4		Y
Perfluoropentanoic acid (PFPeA)	3.964	-0.01	667565	1.1336	35.4		Y
Perfluorohexanoic acid (PFHxA)	4.222	-0.01	734134	1.1250	35.2		Y
Perfluoroheptanoic acid (PFHpA)	4.404	-0.01	735406	1.2829	40.1		Y
Perfluorooctanoic acid (PFOA)	4.577	-0.01	916616	1.0075	31.5		Y
Perfluorononanoic acid (PFNA)	4.752	0.00	760616	1.0982	34.3		Y
Perfluorodecanoic acid (PFDA)	4.939	0.00	701750	1.0620	33.2		Y
Perfluoroundecanoic acid (PFUnDA)	5.111	-0.01	731126	1.0819	33.8		Y
Perfluorododecanoic acid (PFDoDA)	5.274	-0.02	558442	1.0549	33.0		Y
Perfluorotridecanoic acid (PFTrDA)	5.431	-0.02	577082	1.5335	47.9		Y
Perfluorotetradecanoic acid (PFTeDA)	5.578	-0.01	404316	0.9908	31.0		Y
Perfluorooctane sulfonamide (FOSA)	5.219	-0.01	87348	1.1271	35.2		Y
N-Methyl perfluorooctane sulfonamide (MeFOSA)	5.603	+0.00	29751	1.5355	48.0		Y
N-Ethyl perfluorooctane sulfonamide (EtFOSA)	5.664	-0.06	23206	8.9950	281		Y
N-Methyl perfluorooctane sulfonamidoethanol	5.576	-0.01	26011	1.1398	35.6		Y
N-Ethyl perfluorooctane sulfonamidoethanol	5.693	-0.01	25713	0.2703	8.45		Y
6:2 Fluorotelomer sulfonic acid (6:2 FTS)	4.568	0.00	224086	1.1653	36.4		Y
8:2 Fluorotelomer sulfonic acid (8:2 FTS)	4.937	0.00	150348	1.1198	35.0		Y

Prep Amount:	1.225 g	**Dilution:**	1
Prep Final Amount:	8.00 mL	**Basis Factor:**	20.90

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Printed: 9/14/21 19:07

\\alprews001\starlims$\LIMSReps\QuantValidation.rpt

1st UA 09/15/21

2nd [illegible] 09/16/21

Insight Report
Quantitation/Integration
Printed 9/14/2021 18:48:54

210914_024

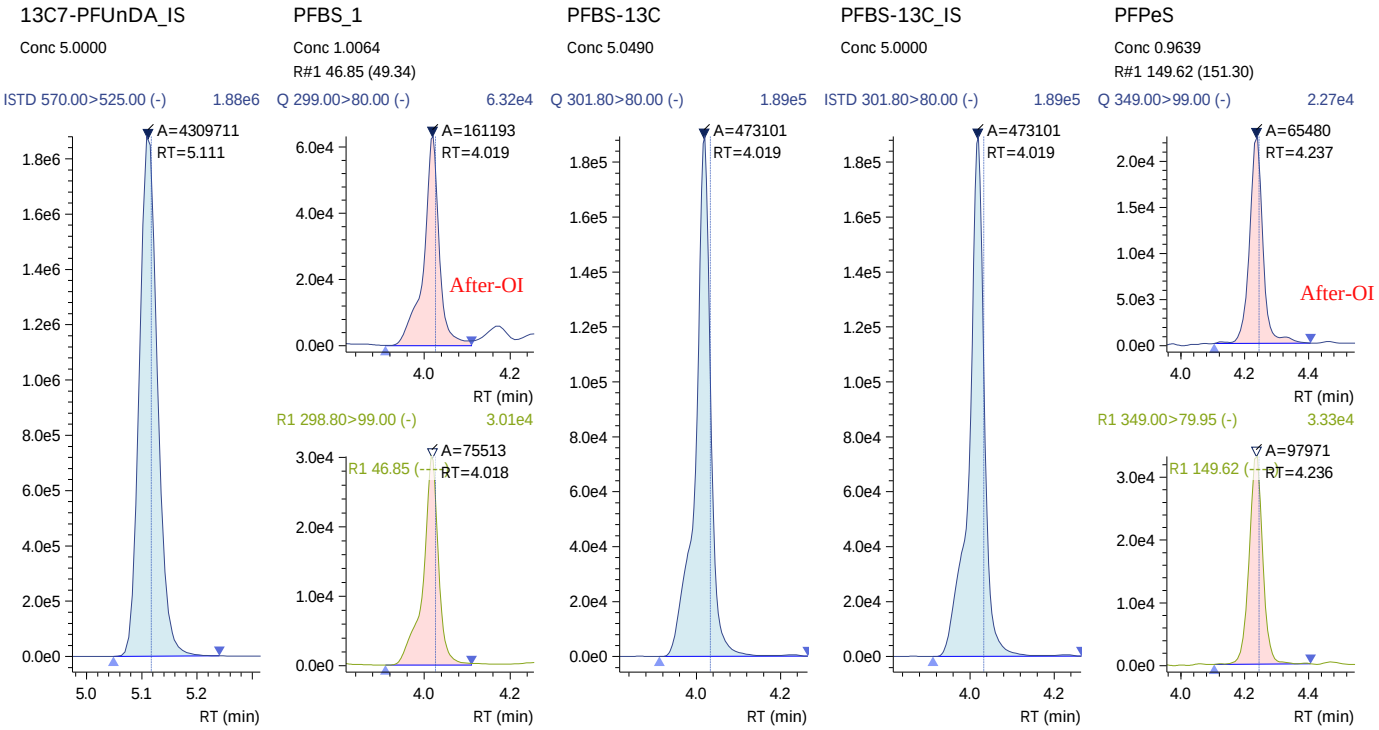
Sample ID: KQ2115544-02
Date Acquired: 9/14/2021 3:06:18 PM
Acquired by: System Administrator
Data File: 210914_024
Vial: 8 | Inj. Volume: 15.0000uL | Tray: 3

Name	Mode ID	Found RT	Area	ISTD Area	ISTD Name	Std. Conc.	Conc.	Unit
13C7-PFUnDA_IS	Auto	5.111	4309711	4309711	----	----	5.0000	ng/mL
PFBS_1	M	4.019	161193	473101	PFBS-13C_IS	----	1.0064	ng/mL
PFBS-13C	Auto	4.019	473101	4309711	13C7-PFUnDA_IS	----	5.0490	ng/mL
PFBS-13C_IS	Auto	4.019	473101	473101	----	----	5.0000	ng/mL
PFPeS	M	4.237	65480	473101	PFBS-13C_IS	----	0.9639	ng/mL
PFHxS_1	Auto	4.403	110060	369684	PFHxS-18O_IS	----	0.9071	ng/mL
PFHxS-18O	Auto	4.405	369684	4309711	13C7-PFUnDA_IS	----	5.5314	ng/mL
PFHxS-18O_IS	Auto	4.405	369684	369684	----	----	5.0000	ng/mL
PFHpS_1	Auto	4.568	127577	369684	PFHxS-18O_IS	----	1.0044	ng/mL
PFOS_1	Auto	4.739	102304	499584	PFOS-13C_IS	----	1.0942	ng/mL
PFOS-13C	Auto	4.740	499584	4309711	13C7-PFUnDA_IS	----	5.4700	ng/mL
PFOS-13C_IS	Auto	4.740	499584	499584	----	----	5.0000	ng/mL
PFNS	Auto	4.921	69837	499584	PFOS-13C_IS	----	1.0285	ng/mL
PFDS_1	Auto	5.090	113980	499584	PFOS-13C_IS	----	0.9691	ng/mL
PFBA	Auto	3.393	544283	2013260	PFBA-13C_IS	----	1.1974	ng/mL
PFBA-13C	Auto	3.393	2013260	4309711	13C7-PFUnDA_IS	----	5.9889	ng/mL
PFBA-13C_IS	Auto	3.393	2013260	2013260	----	----	5.0000	ng/mL
PFPeA	Auto	3.964	667565	939837	PFPeA-13C_IS	----	1.1336	ng/mL
PFPeA-13C	Auto	3.964	939837	4309711	13C7-PFUnDA_IS	----	4.8919	ng/mL
PFPeA-13C_IS	Auto	3.964	939837	939837	----	----	5.0000	ng/mL
PFHxA	Auto	4.222	734134	2497450	PFHxA-13C_IS	----	1.1250	ng/mL
PFHxA-13C	Auto	4.222	2497450	4309711	13C7-PFUnDA_IS	----	4.5812	ng/mL
PFHxA-13C_IS	Auto	4.222	2497450	2497450	----	----	5.0000	ng/mL
PFHpA	Auto	4.404	735406	2375918	PFHpA-13C_IS	----	1.2829	ng/mL
PFHpA-13C	Auto	4.406	2375918	4309711	13C7-PFUnDA_IS	----	4.8057	ng/mL
PFHpA-13C_IS	Auto	4.406	2375918	2375918	----	----	5.0000	ng/mL
PFOA	Auto	4.577	916616	3318257	PFOA-13C_IS	----	1.0075	ng/mL
PFOA-13C	Auto	4.576	3318257	4309711	13C7-PFUnDA_IS	----	5.0204	ng/mL
PFOA-13C_IS	Auto	4.576	3318257	3318257	----	----	5.0000	ng/mL
PFNA	Auto	4.752	760616	3349335	PFNA-13C_IS	----	1.0982	ng/mL
PFNA-13C	Auto	4.752	3349335	4309711	13C7-PFUnDA_IS	----	5.8817	ng/mL
PFNA-13C_IS	Auto	4.752	3349335	3349335	----	----	5.0000	ng/mL
PFDA	Auto	4.939	701750	2344056	PFDA-13C_IS	----	1.0620	ng/mL
PFDA-13C	Auto	4.939	2344056	4309711	13C7-PFUnDA_IS	----	5.9206	ng/mL
PFDA-13C_IS	Auto	4.939	2344056	2344056	----	----	5.0000	ng/mL
PFUnA	Auto	5.111	731126	3053199	PFUnA-13C_IS	----	1.0819	ng/mL
PFUnA-13C	Auto	5.111	3053199	4309711	13C7-PFUnDA_IS	----	5.1145	ng/mL
PFUnA-13C_IS	Auto	5.111	3053199	3053199	----	----	5.0000	ng/mL
PFDoA	Auto	5.274	558442	2972309	PFDoA-13C_IS	----	1.0549	ng/mL
PFDoA-13C	Auto	5.274	2972309	4309711	13C7-PFUnDA_IS	----	4.5140	ng/mL
PFDoA-13C_IS	Auto	5.274	2972309	2972309	----	----	5.0000	ng/mL
PFTrDA	Auto	5.431	577082	1843078	PFTeDA-13C_IS	----	1.5335	ng/mL
PFTeDA	Auto	5.578	404316	1843078	PFTeDA-13C_IS	----	0.9908	ng/mL
PFTeDA-13C	Auto	5.578	1843078	4309711	13C7-PFUnDA_IS	----	2.7897	ng/mL
PFTeDA-13C_IS	Auto	5.578	1843078	1843078	----	----	5.0000	ng/mL
FOSA	Auto	5.219	87348	323147	FOSA-13C_IS	----	1.1271	ng/mL
FOSA-13C	Auto	5.220	323147	4309711	13C7-PFUnDA_IS	----	1.1789	ng/mL
FOSA-13C_IS	Auto	5.220	323147	323147	----	----	5.0000	ng/mL
N-MeFOSA	M	5.603	29751	50891	N-MeFOSA-d3_IS	----	1.5355	ng/mL
N-MeFOSA-d3	Auto	5.598	50891	4309711	13C7-PFUnDA_IS	----	0.8274	ng/mL
N-MeFOSA-d3_IS	Auto	5.598	50891	50891	----	----	5.0000	ng/mL
N-EtFOSA	M	5.664	23206	42566	N-EtFOSA-d9_IS	----	8.9950	ng/mL
N-EtFOSA-d9	Auto	5.714	42566	4309711	13C7-PFUnDA_IS	----	0.5941	ng/mL
N-EtFOSA-d9_IS	Auto	5.714	42566	42566	----	----	5.0000	ng/mL

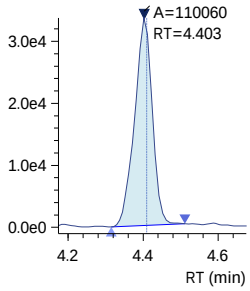
210914_024 (continued)

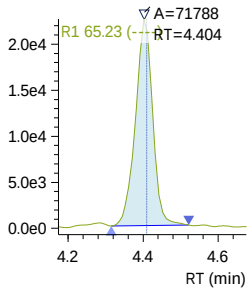
(Table continued from previous page)

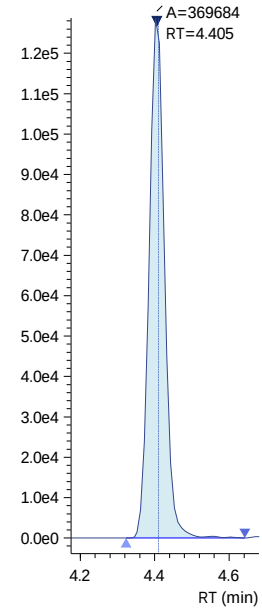
Name	Mode ID	Found RT	Area	ISTD Area	ISTD Name	Std. Conc.	Conc.	Unit
N-MeFOSE	Auto	5.576	26011	63488	N-MeFOSE-d7_IS	----	1.1398	ng/mL
N-MeFOSE-d7	Auto	5.568	63488	4309711	13C7-PFUnDA_IS	----	0.6703	ng/mL
N-MeFOSE-d7_IS	Auto	5.568	63488	63488	----	----	5.0000	ng/mL
N-EtFOSE	M	5.693	25713	274450	N-EtFOSE-d9_IS	----	0.2703	ng/mL
N-EtFOSE-d9	Auto	5.749	274450	4309711	13C7-PFUnDA_IS	----	3.0600	ng/mL
N-EtFOSE-d9_IS	Auto	5.749	274450	274450	----	----	5.0000	ng/mL
N-MeFOSAA	M	5.034	112656	496623	N-MeFOSAA-d3_IS	----	1.3648	ng/mL
N-MeFOSAA-d3	Auto	5.033	496623	4309711	13C7-PFUnDA_IS	----	4.5643	ng/mL
N-MeFOSAA-d3_IS	Auto	5.033	496623	496623	----	----	5.0000	ng/mL
N-EtFOSAA	Auto	5.125	96753	547239	N-EtFOSAA-d5_IS	----	1.1877	ng/mL
N-EtFOSAA-d5	Auto	5.123	547239	4309711	13C7-PFUnDA_IS	----	5.9478	ng/mL
N-EtFOSAA-d5_IS	Auto	5.123	547239	547239	----	----	5.0000	ng/mL
4_2-FTS_1	Auto	4.197	211054	900863	4_2-FTS-13C_IS	----	1.2975	ng/mL
4_2-FTS-13C	Auto	4.197	900863	4309711	13C7-PFUnDA_IS	----	8.8340	ng/mL
4_2-FTS-13C_IS	Auto	4.197	900863	900863	----	----	5.0000	ng/mL
6_2-FTS_1	Auto	4.568	224086	736947	6_2-FTS-13C_IS	----	1.1653	ng/mL
6_2-FTS-13C	Auto	4.568	736947	4309711	13C7-PFUnDA_IS	----	8.5534	ng/mL
6_2-FTS-13C_IS	Auto	4.568	736947	736947	----	----	5.0000	ng/mL
8_2-FTS_1	Auto	4.937	150348	702756	8_2-FTS-13C_IS	----	1.1198	ng/mL
8_2-FTS-13C	Auto	4.938	702756	4309711	13C7-PFUnDA_IS	----	11.2202	ng/mL
8_2-FTS-13C_IS	Auto	4.938	702756	702756	----	----	5.0000	ng/mL
10_2-FtS_1	Auto	5.278	114294	702756	8_2-FTS-13C_IS	----	1.0486	ng/mL
HPFO_DA	M	4.289	94887	486126	HFPO_DA-13C_IS	----	0.9764	ng/mL
HFPO_DA-13C	Auto	4.289	486126	4309711	13C7-PFUnDA_IS	----	5.2640	ng/mL
HFPO_DA-13C_IS	Auto	4.289	486126	486126	----	----	5.0000	ng/mL

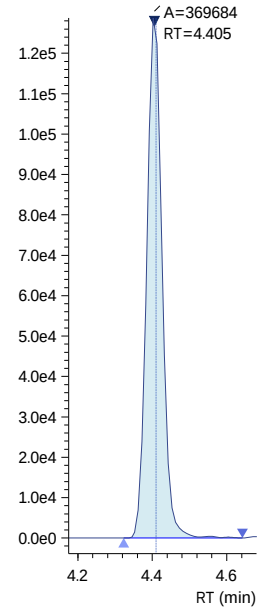


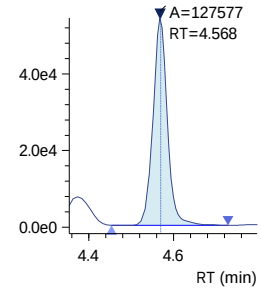
210914_024 (continued)

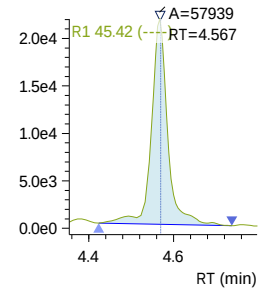
PFHxS_1
Conc 0.9071
R#1 65.23 (62.92)
Q 399.00>80.00 (-) 3.38e4


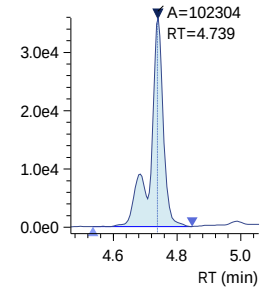
R1 399.00>99.00 (-) 2.27e4


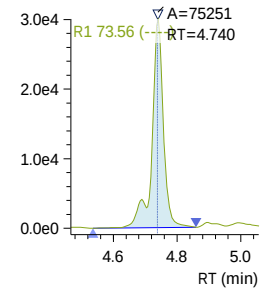
PFHxS-18O
Conc 5.5314
Q 402.70>84.05 (-) 1.29e5


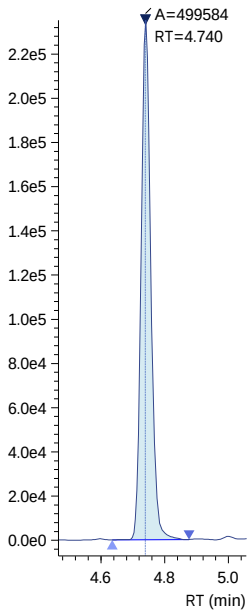
PFHxS-18O_IS
Conc 5.0000
ISTD 402.70>84.05 (-) 1.29e5


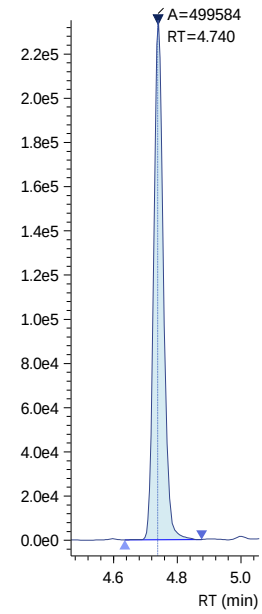
PFHpS_1
Conc 1.0044
R#1 45.42 (40.53)
Q 449.00>80.15 (-) 5.46e4


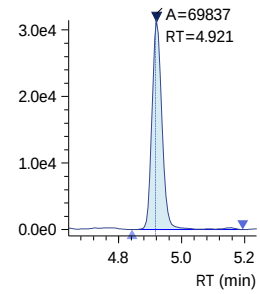
R1 449.00>99.20 (-) 2.21e4


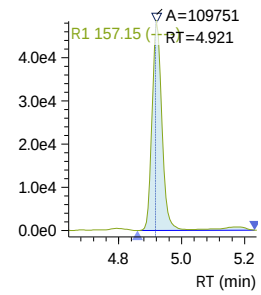
PFOS_1
Conc 1.0942
R#1 73.56 (73.81)
Q 499.00>80.00 (-) 3.59e4


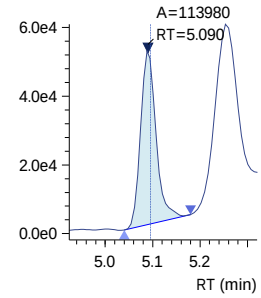
R1 499.00>99.00 (-) 3.01e4


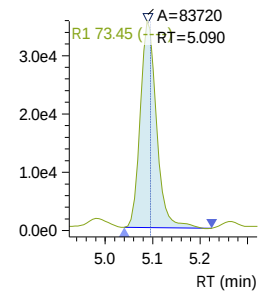
PFOS-13C
Conc 5.4700
Q 502.80>80.05 (-) 2.35e5


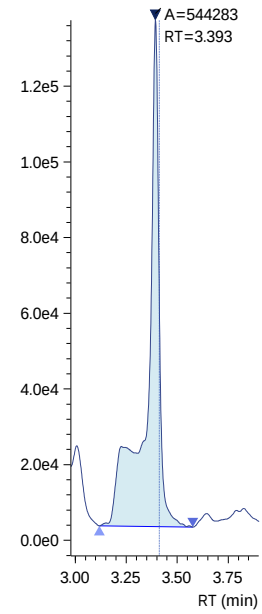
PFOS-13C_IS
Conc 5.0000
ISTD 502.80>80.05 (-) 2.35e5


PFNS
Conc 1.0285
R#1 157.15 (160.25)
Q 549.00>99.00 (-) 3.15e4


R1 549.00>79.95 (-) 4.84e4


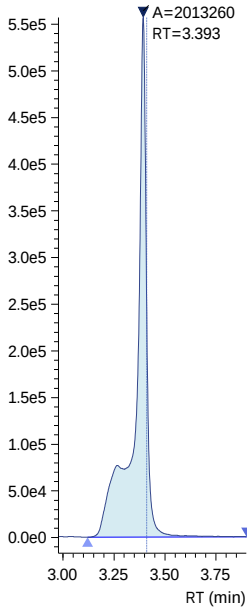
PFDS_1
Conc 0.9691
R#1 73.45 (72.12)
Q 599.00>79.90 (-) 6.09e4


R1 599.00>99.10 (-) 3.59e4


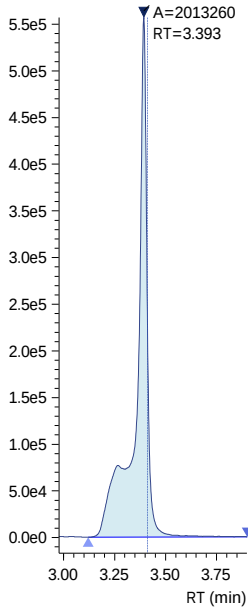
PFBA
Conc 1.1974
Q 213.00>169.10 (-) 1.37e5


210914_024 (continued)

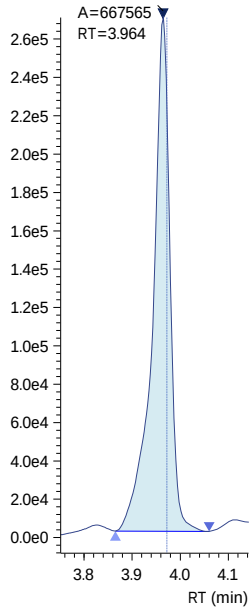
PFBA-13C
Conc 5.9889
Q 216.90>172.15 (-) 5.57e5



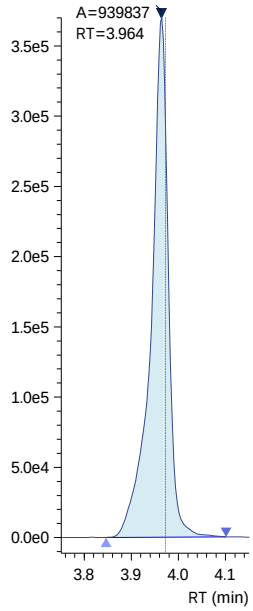
PFBA-13C_IS
Conc 5.0000
ISTD 216.90>172.15 (-) 5.57e5



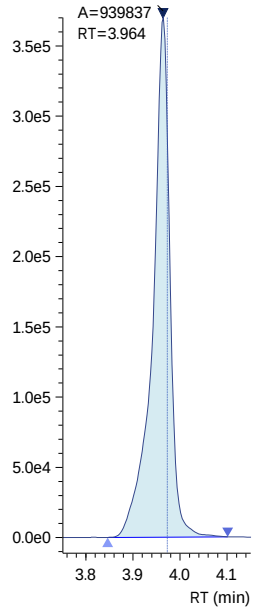
PFPeA
Conc 1.1336
Q 263.05>219.10 (-) 2.71e5



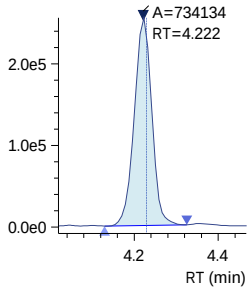
PFPeA-13C
Conc 4.8919
Q 267.90>223.00 (-) 3.70e5



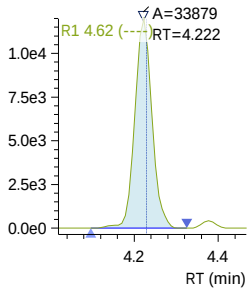
PFPeA-13C_IS
Conc 5.0000
ISTD 267.90>223.00 (-) 3.70e5



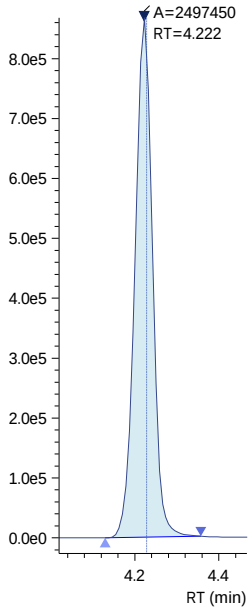
PFHxA
Conc 1.1250
R#1 4.62 (4.40)
Q 313.00>269.00 (-) 2.57e5



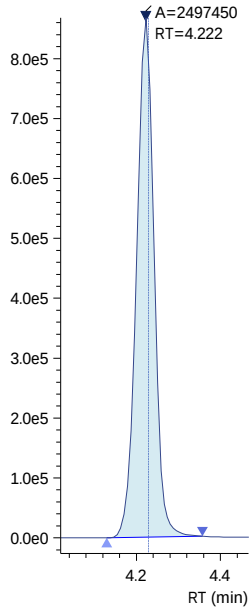
R1 313.00>119.10 (-) 1.20e4



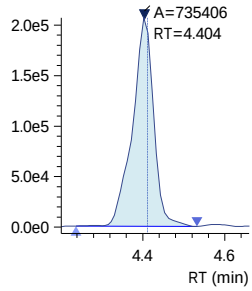
PFHxA-13C
Conc 4.5812
Q 314.90>270.10 (-) 8.68e5



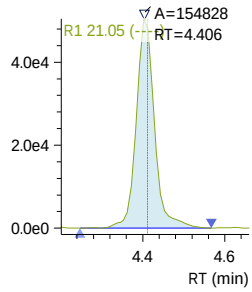
PFHxA-13C_IS
Conc 5.0000
ISTD 314.90>270.10 (-) 8.68e5



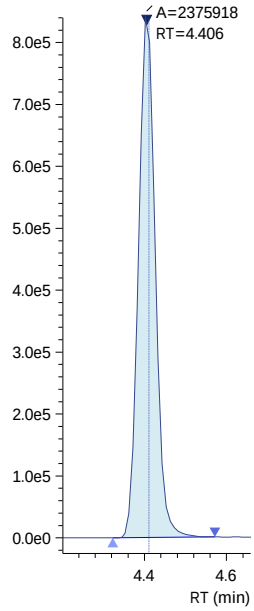
PFHpA
Conc 1.2829
R#1 21.05 (24.40)
Q 362.90>319.00 (-) 2.07e5



R1 362.90>169.00 (-) 5.05e4

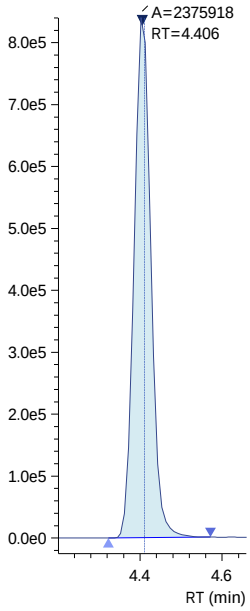


PFHpA-13C
Conc 4.8057
Q 366.90>322.10 (-) 8.40e5

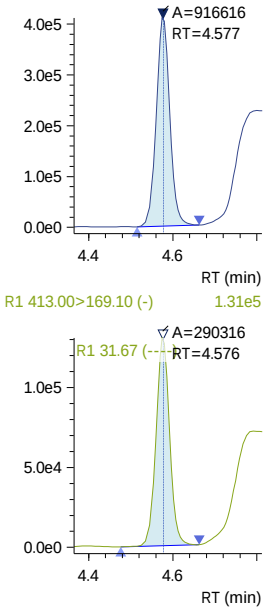


210914_024 (continued)

PFHpA-13C_IS
Conc 5.0000
ISTD 366.90>322.10 (-) 8.40e5

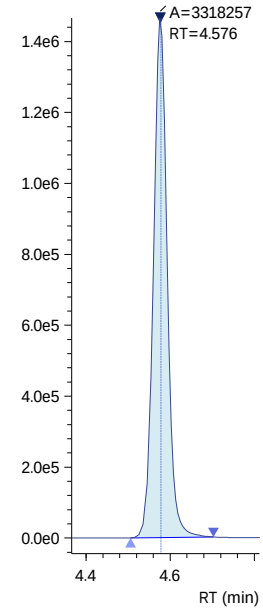


PFOA
Conc 1.0075
R#1 31.67 (31.89)
Q 413.00>369.00 (-) 4.12e5

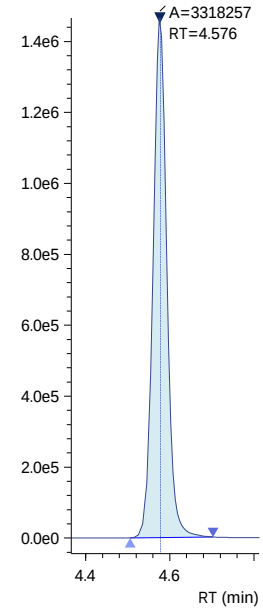


R1 413.00>169.10 (-) 1.31e5

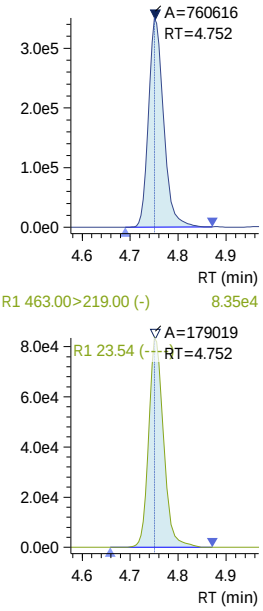
PFOA-13C
Conc 5.0204
Q 416.80>372.05 (-) 1.47e6



PFOA-13C_IS
Conc 5.0000
ISTD 416.80>372.05 (-) 1.47e6

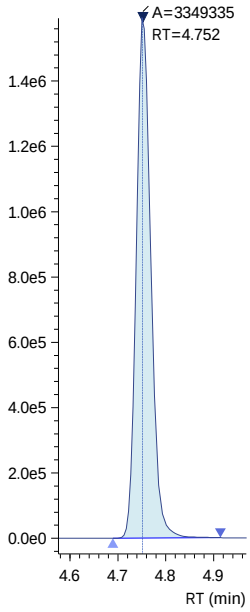


PFNA
Conc 1.0982
R#1 23.54 (23.25)
Q 463.00>418.90 (-) 3.51e5



R1 463.00>219.00 (-) 8.35e4

PFNA-13C
Conc 5.8817
Q 467.80>423.00 (-) 1.59e6



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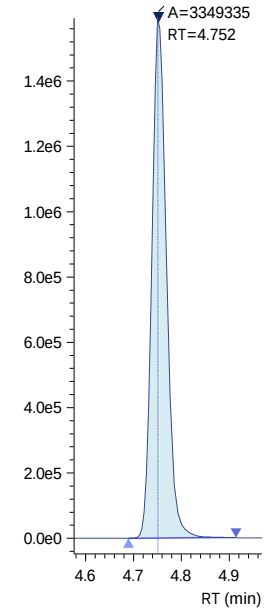
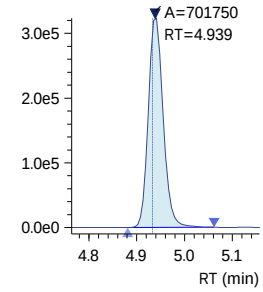
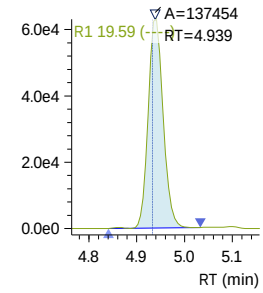
Conc 5.0000
ISTD 467.80>423.00 (-) 1.59e6



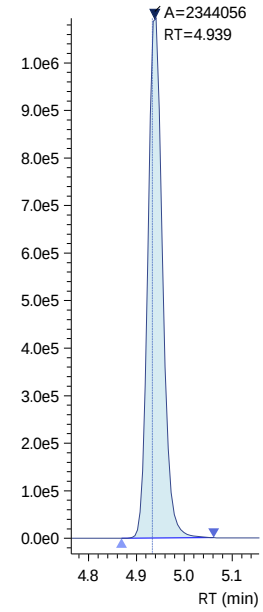
PFDA
Conc 1.0620
R#1 19.59 (20.24)
Q 513.00>468.80 (-) 3.23e5



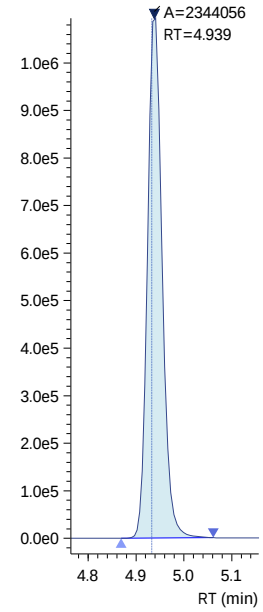
R1 513.00>219.10 (-) 6.31e4



PFDA-13C
Conc 5.9206
Q 514.80>469.95 (-) 1.09e6

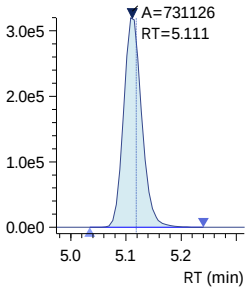


PFDA-13C_IS
Conc 5.0000
ISTD 514.80>469.95 (-) 1.09e6

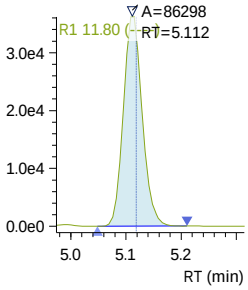


210914_024 (continued)

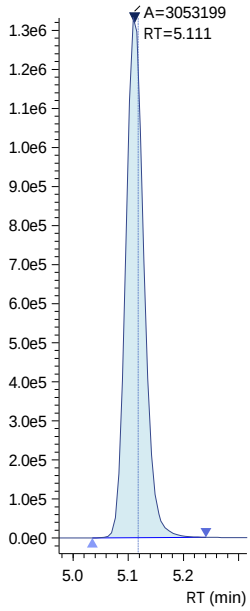
PFUnA
Conc 1.0819
R#1 11.80 (12.46)
Q 563.00>518.90 (-) 3.20e5



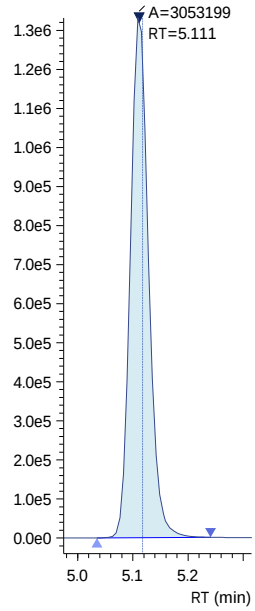
R1 563.00>219.00 (-) 3.62e4



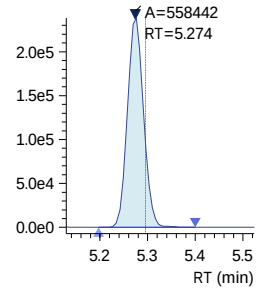
PFUnA-13C
Conc 5.1145
Q 564.80>519.95 (-) 1.33e6



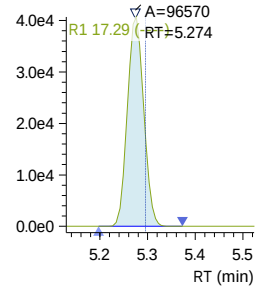
PFUnA-13C_IS
Conc 5.0000
ISTD 564.80>519.95 (-) 1.33e6



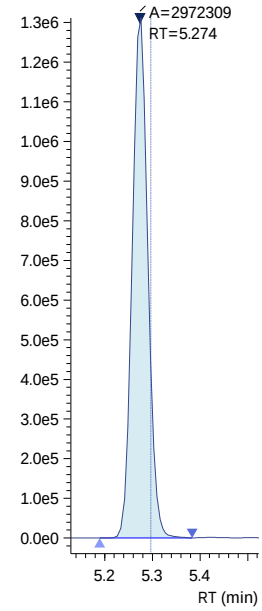
PFDoA
Conc 1.0549
R#1 17.29 (16.50)
Q 613.05>569.00 (-) 2.39e5



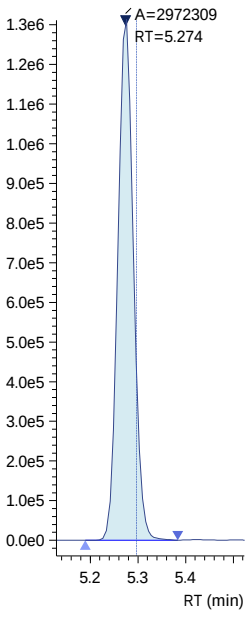
R1 613.05>169.00 (-) 4.07e4



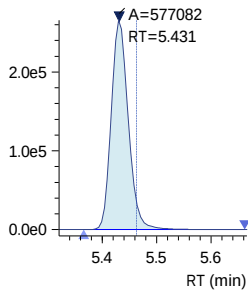
PFDoA-13C
Conc 4.5140
Q 614.80>569.95 (-) 1.31e6



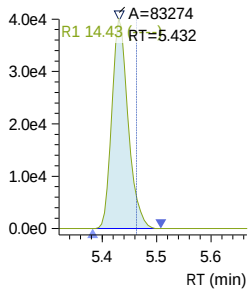
PFDoA-13C_IS
Conc 5.0000
ISTD 614.80>569.95 (-) 1.31e6



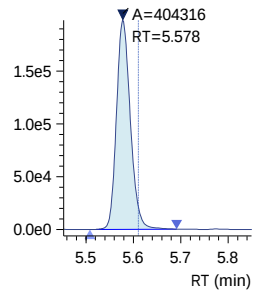
PFTrDA
Conc 1.5335
R#1 14.43 (15.29)
Q 663.00>618.90 (-) 2.66e5



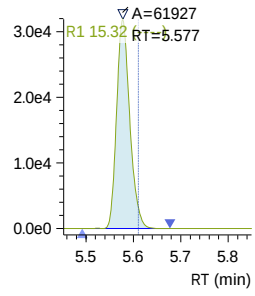
R1 662.90>169.00 (-) 4.00e4



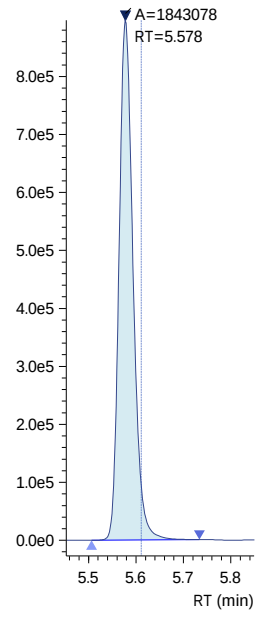
PFTeDA
Conc 0.9908
R#1 15.32 (17.47)
Q 713.00>669.00 (-) 1.98e5



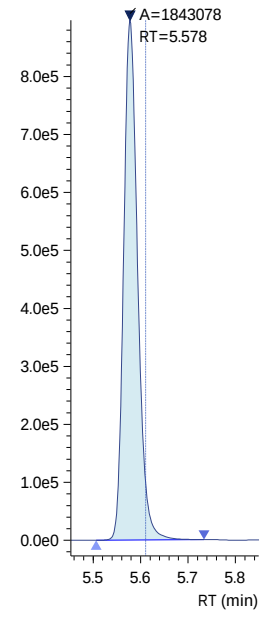
R1 713.00>169.10 (-) 3.19e4



PFTeDA-13C
Conc 2.7897
Q 714.70>669.90 (-) 8.97e5

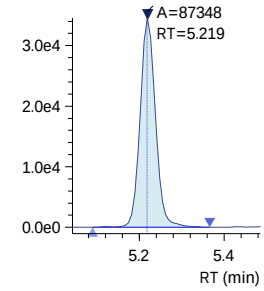


PFTeDA-13C_IS
Conc 5.0000
ISTD 714.70>669.90 (-) 8.97e5

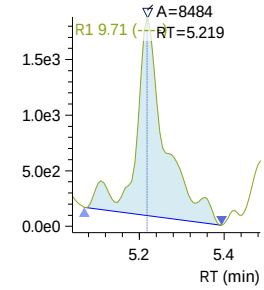


210914_024 (continued)

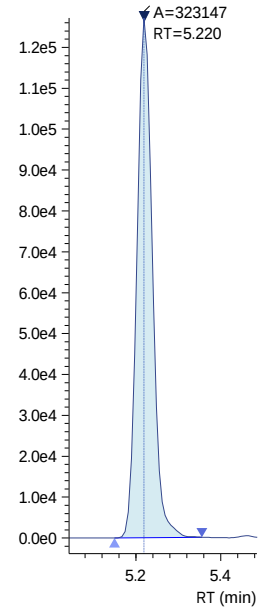
FOSA
Conc 1.1271
R#1 9.71 (5.19)
Q 498.20>78.00 (-) 3.46e4



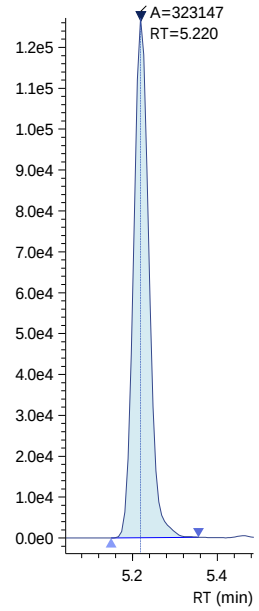
R1 498.20>64.10 (-) 1.88e3



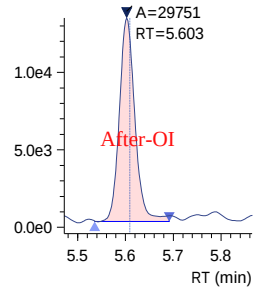
FOSA-13C
Conc 1.1789
Q 506.00>78.05 (-) 1.27e5



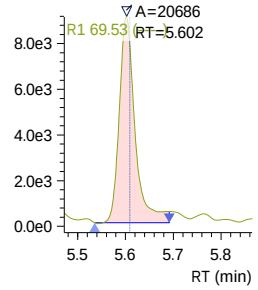
FOSA-13C_IS
Conc 5.0000
ISTD 506.00>78.05 (-) 1.27e5



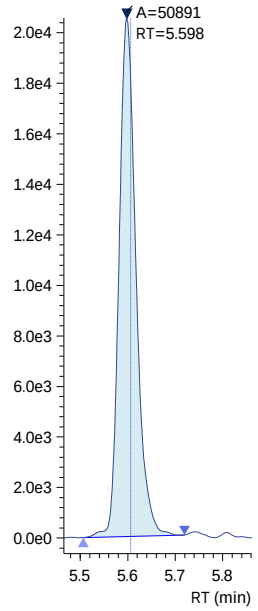
N-MeFOSA
Conc 1.5355
R#1 69.53 (69.94)
Q 512.00>169.10 (-) 1.35e4



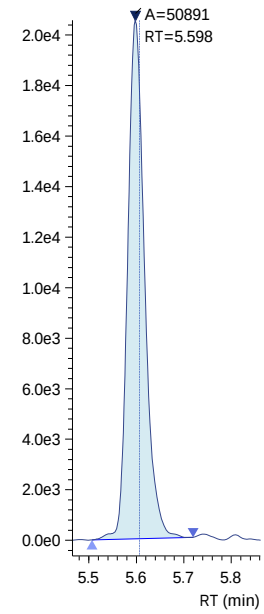
R1 512.00>219.00 (-) 9.17e3



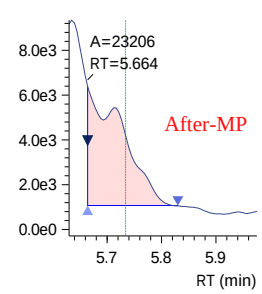
N-MeFOSA-d3
Conc 0.8274
Q 514.90>168.90 (-) 2.06e4



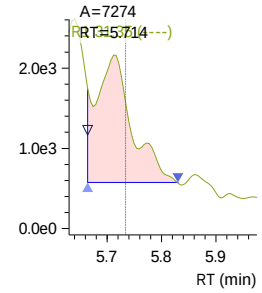
N-MeFOSA-d3_IS
Conc 5.0000
ISTD 514.90>168.90 (-) 2.06e4



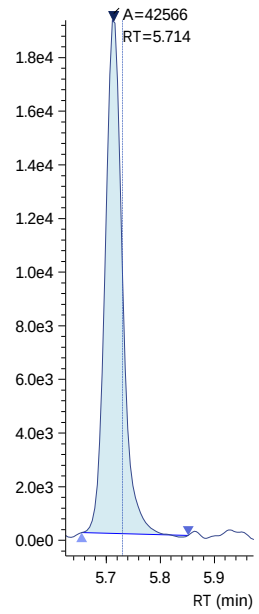
N-EtFOSA
Conc 8.9950
R#1 31.35 (66.52)
Q 526.90>169.10 (-) 9.34e3



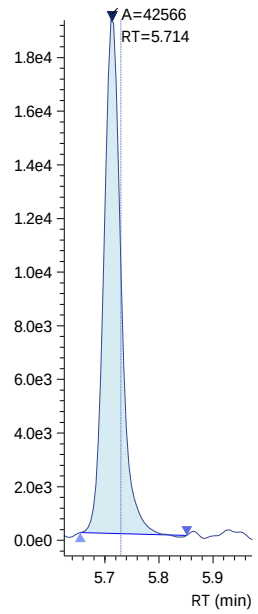
R1 526.90>219.00 (-) 2.61e3



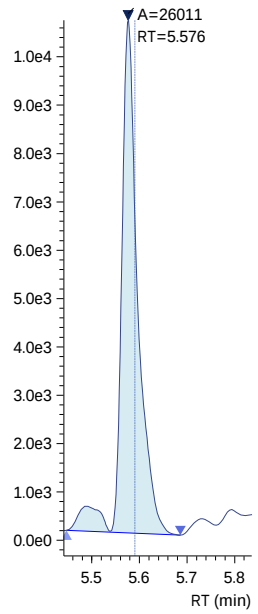
N-EtFOSA-d9
Conc 0.5941
Q 530.90>169.15 (-) 1.94e4



N-EtFOSA-d9_IS
Conc 5.0000
ISTD 530.90>169.15 (-) 1.94e4



N-MeFOSE
Conc 1.1398
Q 616.00>59.00 (-) 1.08e4



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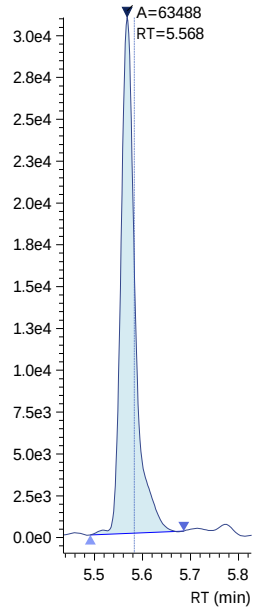
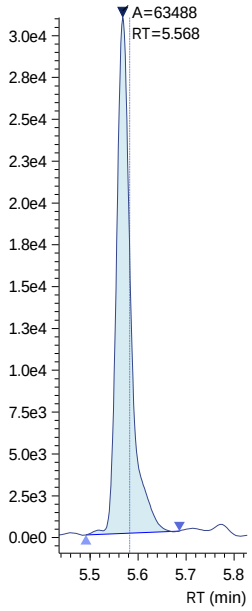
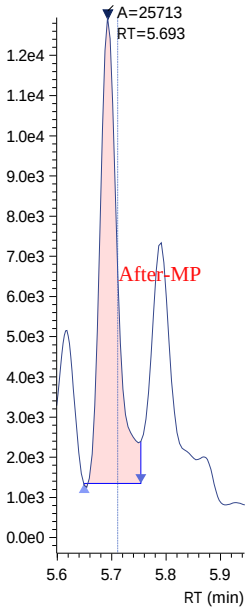
N-MeFOSE-d7
Conc 0.6703
Q 622.70>59.10 (-) 3.11e4



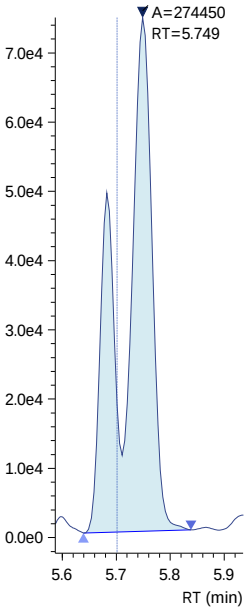
N-MeFOSE-d7_IS
Conc 5.0000
ISTD 622.70>59.10 (-) 3.11e4



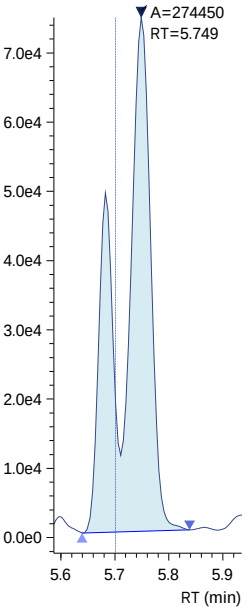
N-EtFOSE
Conc 0.2703
Q 630.00>58.90 (-) 1.29e4



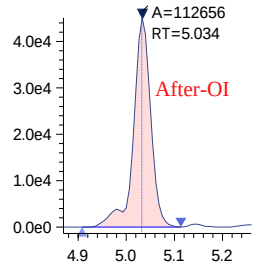
N-EtFOSE-d9
Conc 3.0600
Q 638.70>59.10 (-) 7.51e4



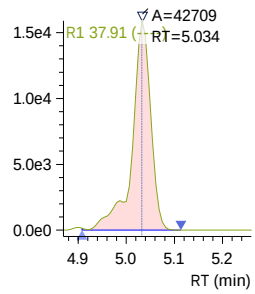
N-EtFOSE-d9_IS
Conc 5.0000
ISTD 638.70>59.10 (-) 7.51e4



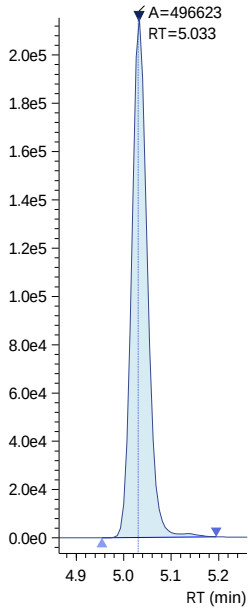
N-MeFOSAA
Conc 1.3648
R#1 37.91 (39.56)
Q 570.20>419.00 (-) 4.51e4



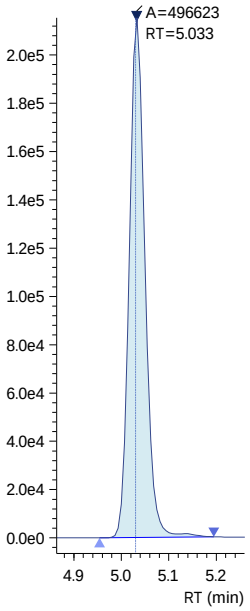
R1 570.20>512.00 (-) 1.59e4



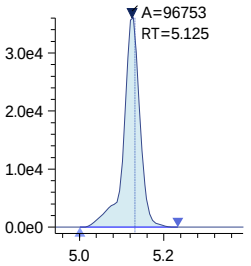
N-MeFOSAA-d3
Conc 4.5643
Q 572.80>419.05 (-) 2.15e5



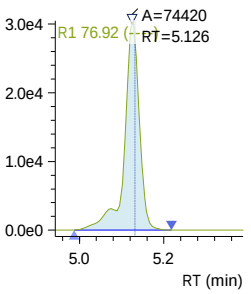
N-MeFOSAA-d3_IS
Conc 5.0000
ISTD 572.80>419.05 (-) 2.15e5



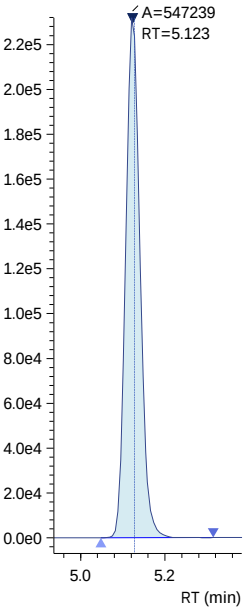
N-EtFOSAA
Conc 1.1877
R#1 76.92 (84.54)
Q 584.20>418.95 (-) 3.61e4



R1 584.20>526.10 (-) 3.05e4



N-EtFOSAA-d5
Conc 5.9478
Q 588.80>419.00 (-) 2.32e5



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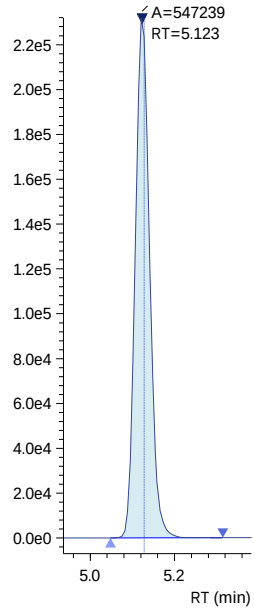
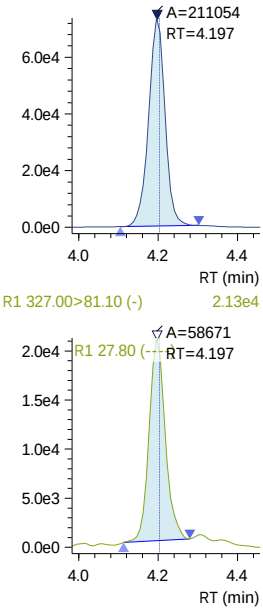
N-EtFOSAA-d5_IS
Conc 5.0000
ISTD 588.80>419.00 (-) 2.32e5

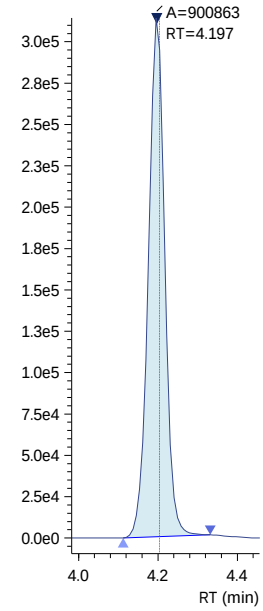


4_2-FTS_1
Conc 1.2975
R#1 27.80 (34.12)
Q 327.00>307.05 (-) 7.39e4

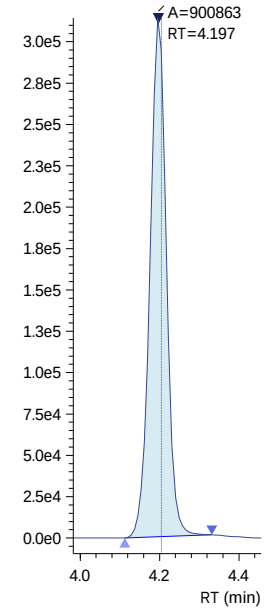


R1 327.00>81.10 (-) 2.13e4

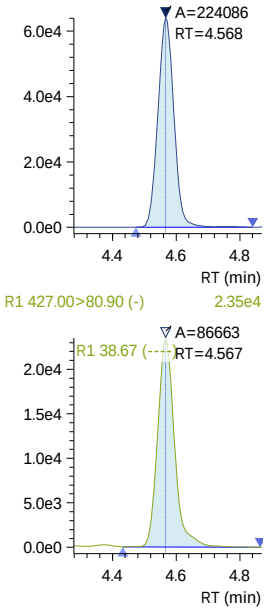
4_2-FTS-13C
Conc 8.8340
Q 328.80>309.05 (-) 3.14e5



4_2-FTS-13C_IS
Conc 5.0000
ISTD 328.80>309.05 (-) 3.14e5

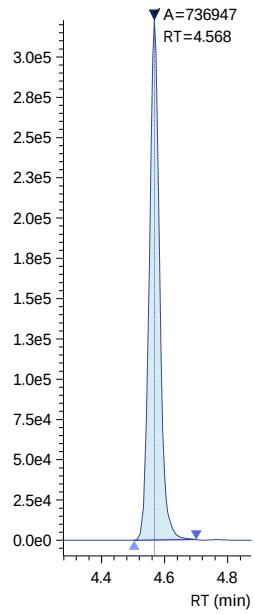


6_2-FTS_1
Conc 1.1653
R#1 38.67 (37.36)
Q 427.00>407.00 (-) 6.41e4

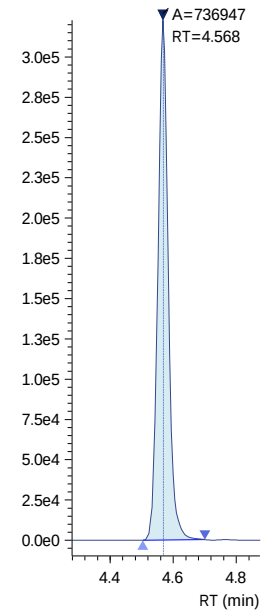


R1 427.00>80.90 (-) 2.35e4

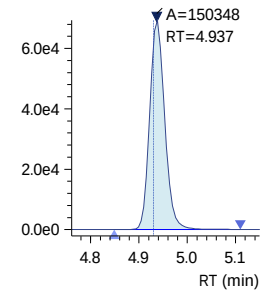
6_2-FTS-13C
Conc 8.5534
Q 428.90>409.00 (-) 3.23e5



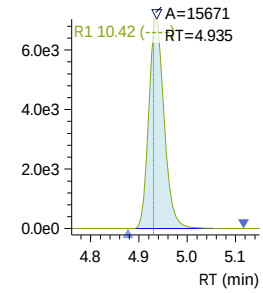
6_2-FTS-13C_IS
Conc 5.0000
ISTD 428.90>409.00 (-) 3.23e5



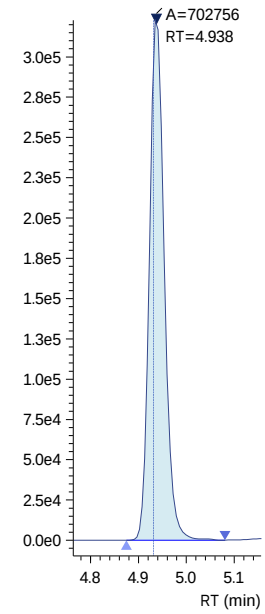
8_2-FTS_1
Conc 1.1198
R#1 10.42 (10.63)
Q 527.10>506.90 (-) 6.93e4



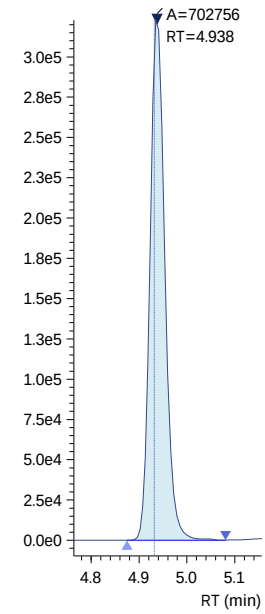
R1 527.20>487.00 (-) 7.03e3



8_2-FTS-13C
Conc 11.2202
Q 528.80>509.00 (-) 3.23e5

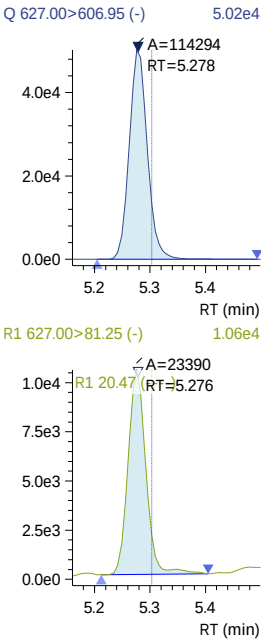


8_2-FTS-13C_IS
Conc 5.0000
ISTD 528.80>509.00 (-) 3.23e5

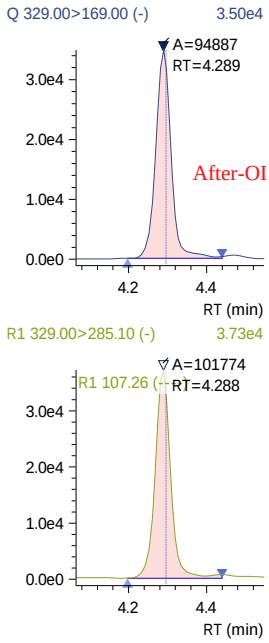


210914_024 (continued)

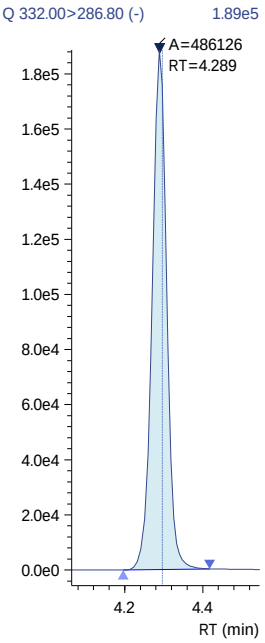
10_2-FtS_1
Conc 1.0486
R#1 20.47 (21.61)



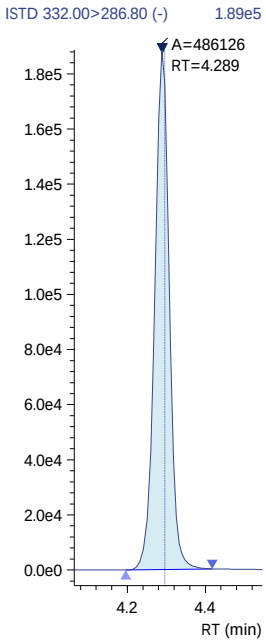
HPFO_DA
Conc 0.9764
R#1 107.26 (106.46)



HFPO_DA-13C
Conc 5.2640



HFPO_DA-13C_IS
Conc 5.0000

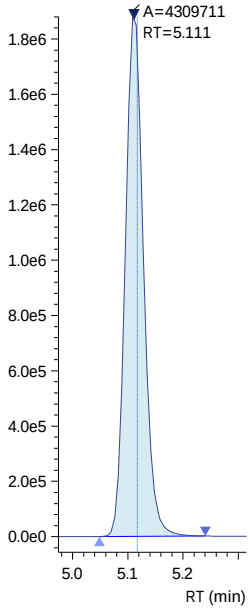


Insight Report
Before Manual Integration
Printed 9/14/2021 18:37:49

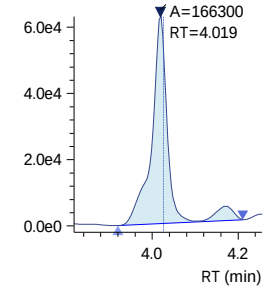
210914_024

Sample ID: KQ2115544-02
Date Acquired: 9/14/2021 3:06:18 PM
Acquired by: System Administrator
Data File: 210914_024
Vial: 8 | Inj. Volume: 15.0000uL | Tray: 3

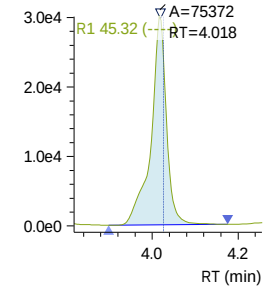
13C7-PFUnDA_IS
Conc 5.0000
ISTD 570.00>525.00 (-) 1.88e6



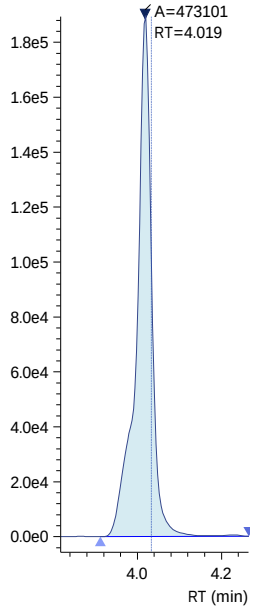
PFBS_1
Conc 1.0383
R#1 45.32 (49.34)
Q 299.00>80.00 (-) 6.32e4



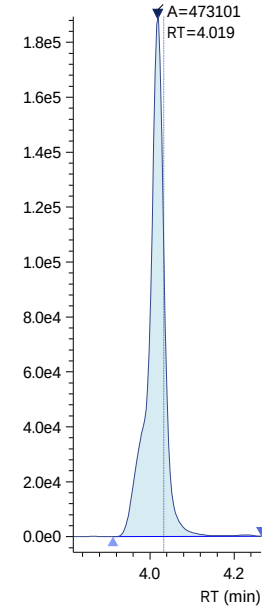
R1 298.80>99.00 (-) 3.01e4



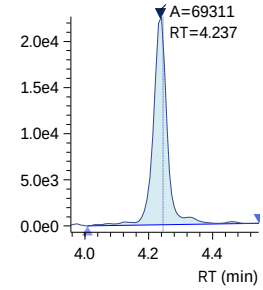
PFBS-13C
Conc 5.0490
Q 301.80>80.00 (-) 1.89e5



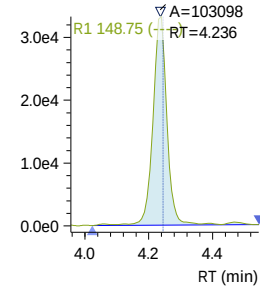
PFBS-13C_IS
Conc 5.0000
ISTD 301.80>80.00 (-) 1.89e5



PFPeS
Conc 1.0203
R#1 148.75 (151.30)
Q 349.00>99.00 (-) 2.27e4

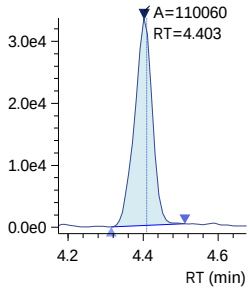


R1 349.00>79.95 (-) 3.33e4

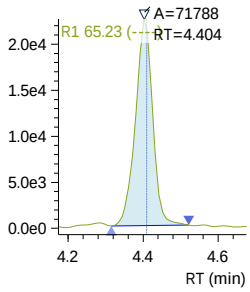


210914_024 (continued)

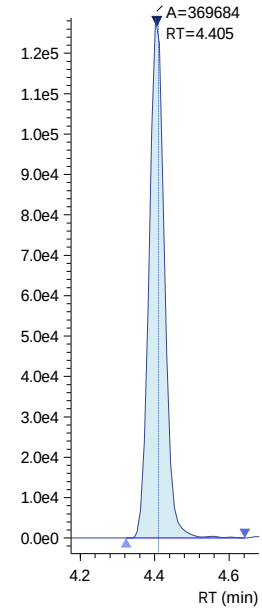
PFHxS_1
Conc 0.9071
R#1 65.23 (62.92)
Q 399.00>80.00 (-) 3.38e4



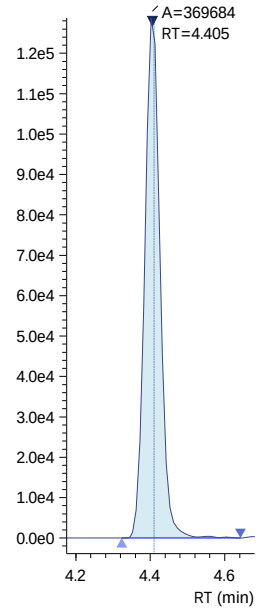
R1 399.00>99.00 (-) 2.27e4



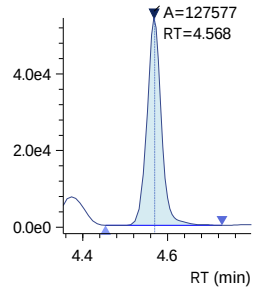
PFHxS-18O
Conc 5.5314
Q 402.70>84.05 (-) 1.29e5



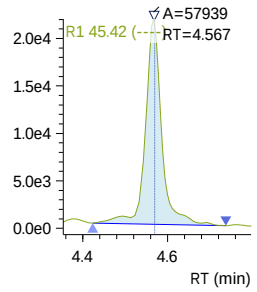
PFHxS-18O_IS
Conc 5.0000
ISTD 402.70>84.05 (-) 1.29e5



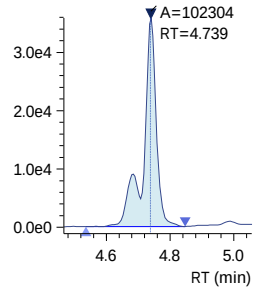
PFHpS_1
Conc 1.0044
R#1 45.42 (40.53)
Q 449.00>80.15 (-) 5.46e4



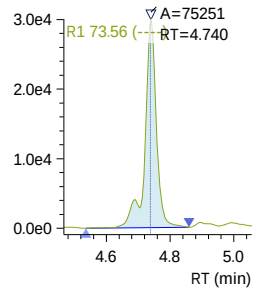
R1 449.00>99.20 (-) 2.21e4



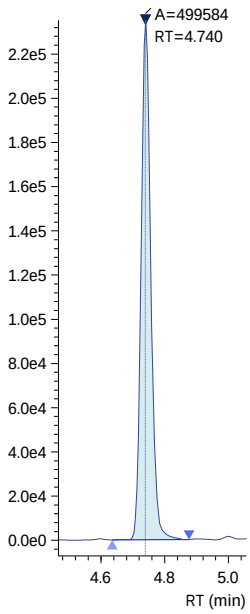
PFOS_1
Conc 1.0942
R#1 73.56 (73.81)
Q 499.00>80.00 (-) 3.59e4



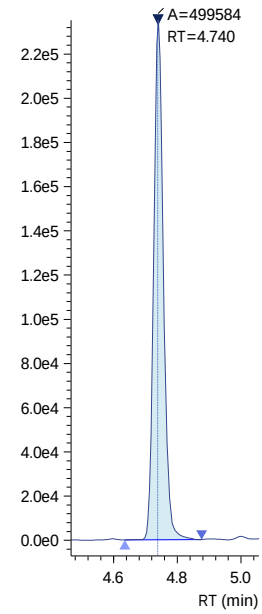
R1 499.00>99.00 (-) 3.01e4



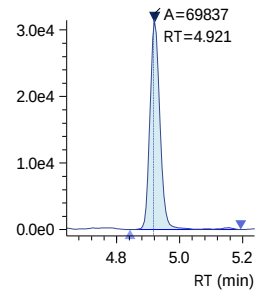
PFOS-13C
Conc 5.4700
Q 502.80>80.05 (-) 2.35e5



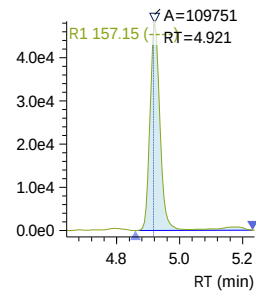
PFOS-13C_IS
Conc 5.0000
ISTD 502.80>80.05 (-) 2.35e5



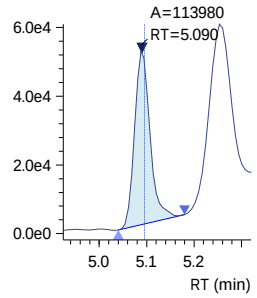
PFNS
Conc 1.0285
R#1 157.15 (160.25)
Q 549.00>99.00 (-) 3.15e4



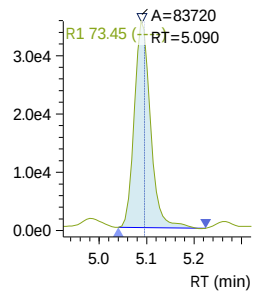
R1 549.00>79.95 (-) 4.84e4



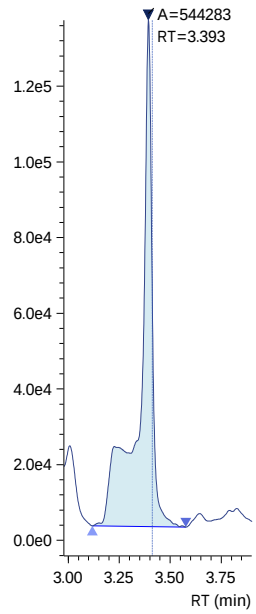
PFDS_1
Conc 0.9691
R#1 73.45 (72.12)
Q 599.00>79.90 (-) 6.09e4



R1 599.00>99.10 (-) 3.59e4

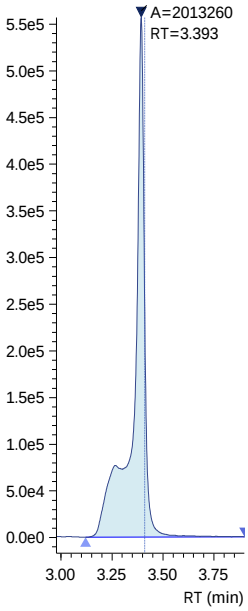


PFBA
Conc 1.1974
Q 213.00>169.10 (-) 1.37e5

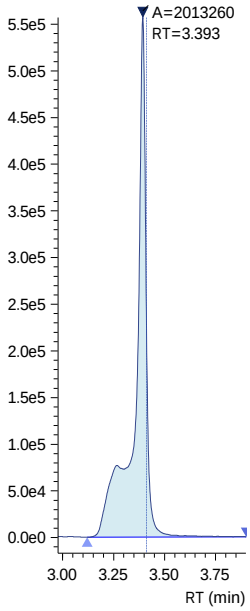


210914_024 (continued)

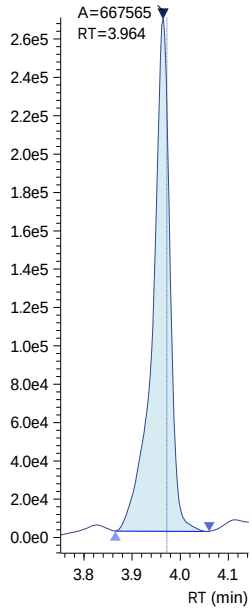
PFBA-13C
Conc 5.9889
Q 216.90>172.15 (-) 5.57e5



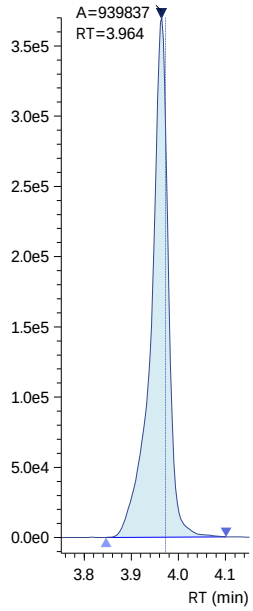
PFBA-13C_IS
Conc 5.0000
ISTD 216.90>172.15 (-) 5.57e5



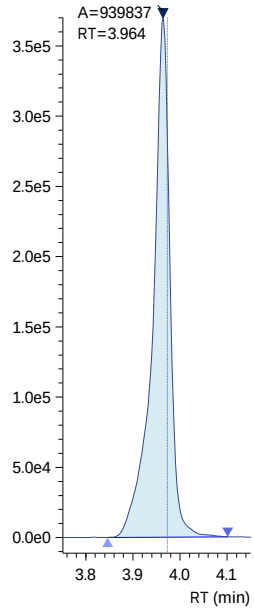
PFPeA
Conc 1.1336
Q 263.05>219.10 (-) 2.71e5



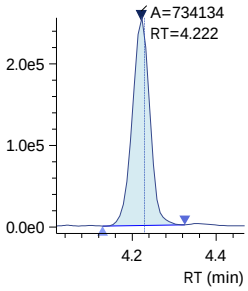
PFPeA-13C
Conc 4.8919
Q 267.90>223.00 (-) 3.70e5



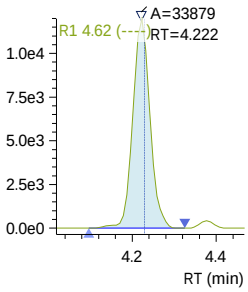
PFPeA-13C_IS
Conc 5.0000
ISTD 267.90>223.00 (-) 3.70e5



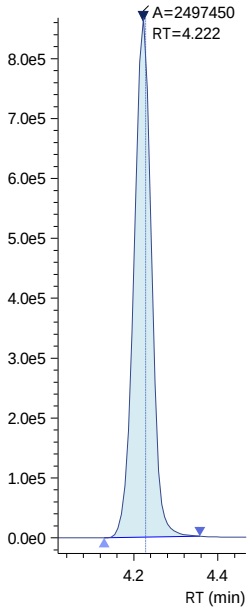
PFHxA
Conc 1.1250
R#1 4.62 (4.40)
Q 313.00>269.00 (-) 2.57e5



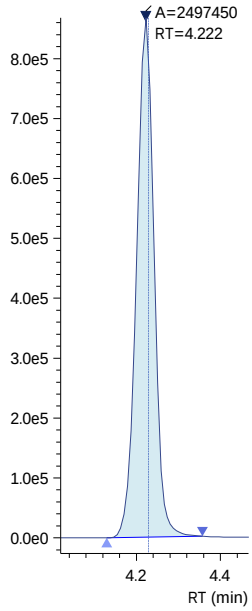
R1 313.00>119.10 (-) 1.20e4



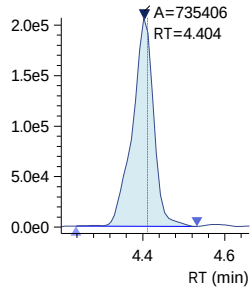
PFHxA-13C
Conc 4.5812
Q 314.90>270.10 (-) 8.68e5



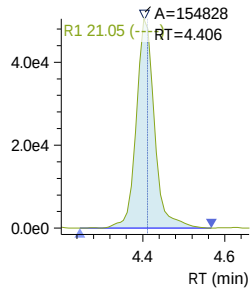
PFHxA-13C_IS
Conc 5.0000
ISTD 314.90>270.10 (-) 8.68e5



PFHpA
Conc 1.2829
R#1 21.05 (24.40)
Q 362.90>319.00 (-) 2.07e5



R1 362.90>169.00 (-) 5.05e4



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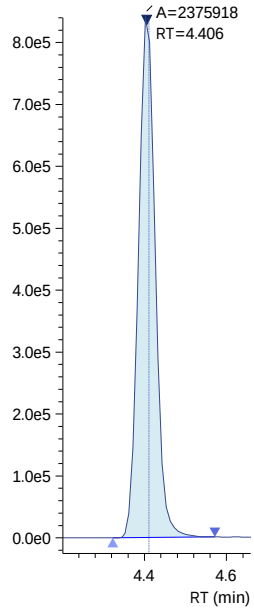
Conc 4.8057
Q 366.90>322.10 (-) 8.40e5



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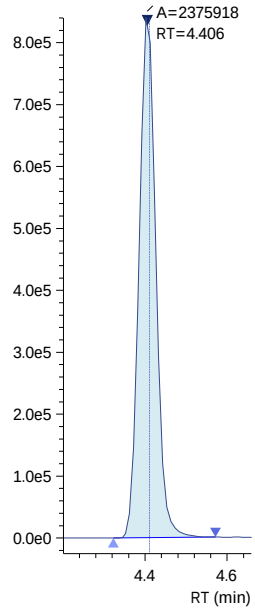
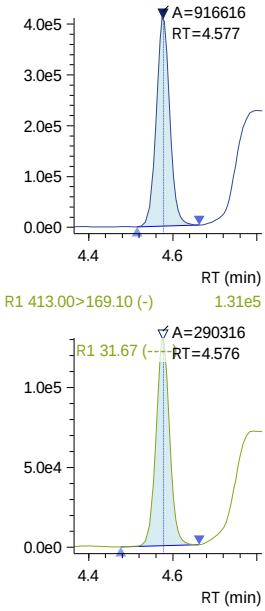
210914_024 (continued)

PFHpA-13C_IS
Conc 5.0000
ISTD 366.90>322.10 (-) 8.40e5

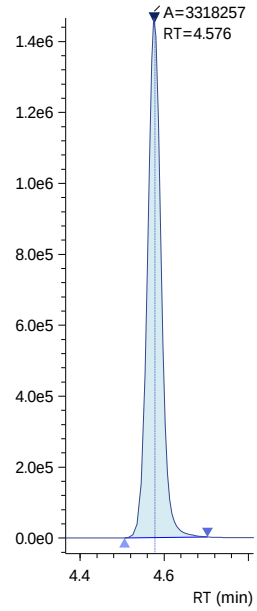


PFOA
Conc 1.0075
R#1 31.67 (31.89)
Q 413.00>369.00 (-) 4.12e5

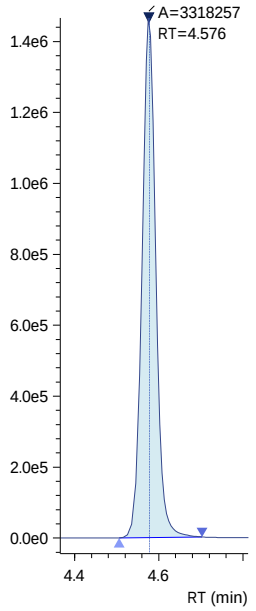


R1 413.00>169.10 (-) 1.31e5

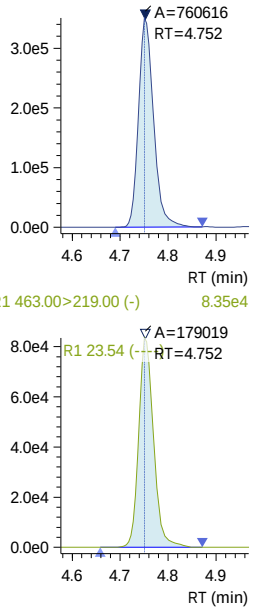
PFOA-13C
Conc 5.0204
Q 416.80>372.05 (-) 1.47e6



PFOA-13C_IS
Conc 5.0000
ISTD 416.80>372.05 (-) 1.47e6

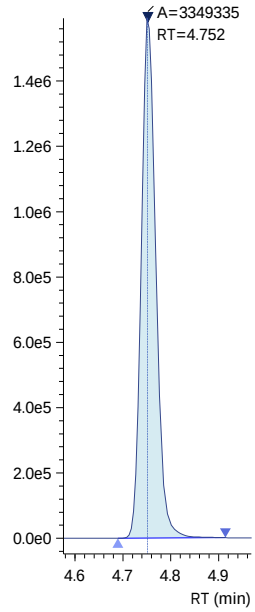


PFNA
Conc 1.0982
R#1 23.54 (23.25)
Q 463.00>418.90 (-) 3.51e5

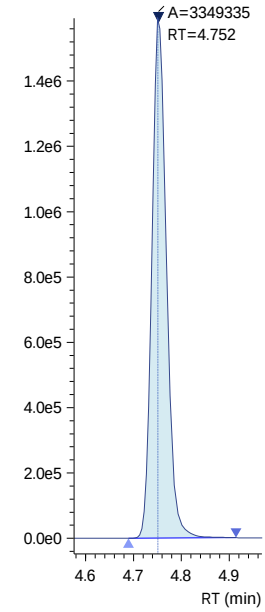


R1 463.00>219.00 (-) 8.35e4

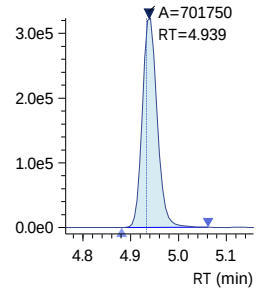
PFNA-13C
Conc 5.8817
Q 467.80>423.00 (-) 1.59e6



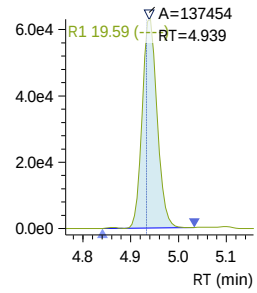
PFNA-13C_IS
Conc 5.0000
ISTD 467.80>423.00 (-) 1.59e6



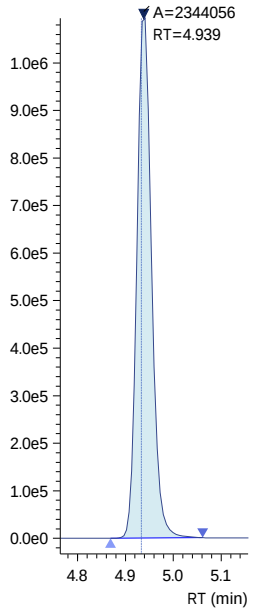
PFDA
Conc 1.0620
R#1 19.59 (20.24)
Q 513.00>468.80 (-) 3.23e5



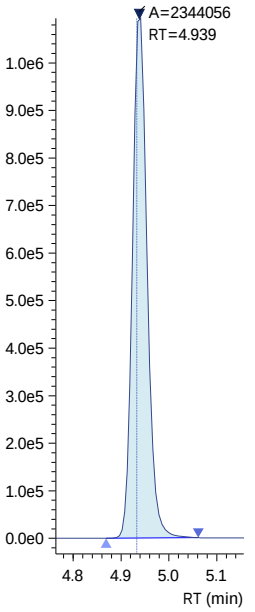
R1 513.00>219.10 (-) 6.31e4



PFDA-13C
Conc 5.9206
Q 514.80>469.95 (-) 1.09e6



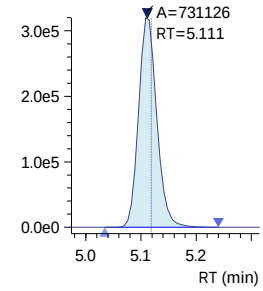
PFDA-13C_IS
Conc 5.0000
ISTD 514.80>469.95 (-) 1.09e6



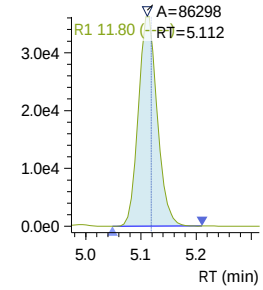
Insight Report
Before Manual Integration
Printed 9/14/2021 18:37:49

210914_024 (continued)

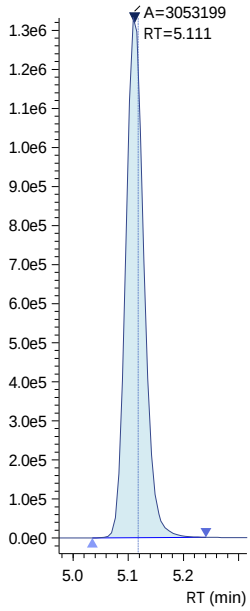
PFUnA
Conc 1.0819
R#1 11.80 (12.46)
Q 563.00>518.90 (-) 3.20e5



R1 563.00>219.00 (-) 3.62e4



PFUnA-13C
Conc 5.1145
Q 564.80>519.95 (-) 1.33e6



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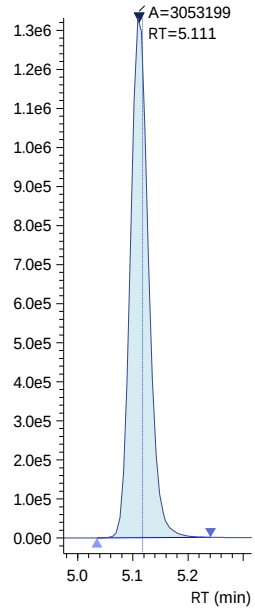
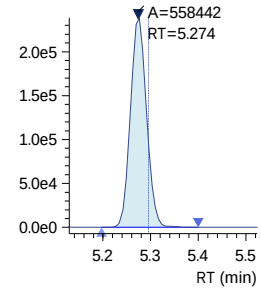
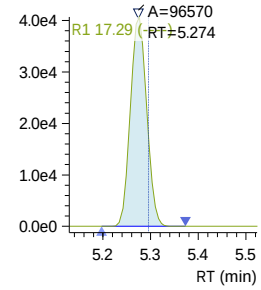
Conc 5.0000
ISTD 564.80>519.95 (-) 1.33e6



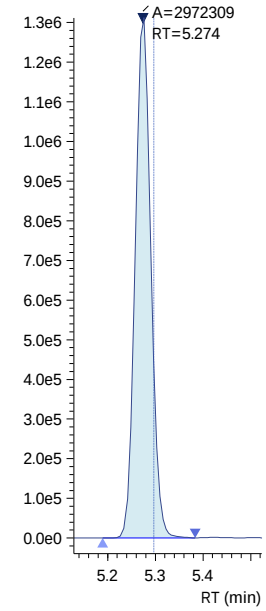
PFDoA
Conc 1.0549
R#1 17.29 (16.50)
Q 613.05>569.00 (-) 2.39e5



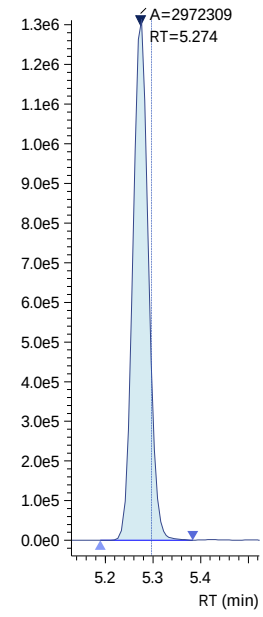
R1 613.05>169.00 (-) 4.07e4



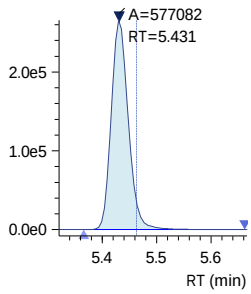
PFDoA-13C
Conc 4.5140
Q 614.80>569.95 (-) 1.31e6



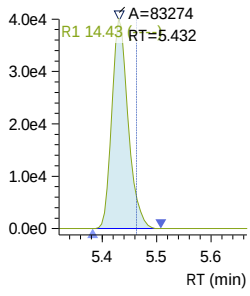
PFDoA-13C_IS
Conc 5.0000
ISTD 614.80>569.95 (-) 1.31e6



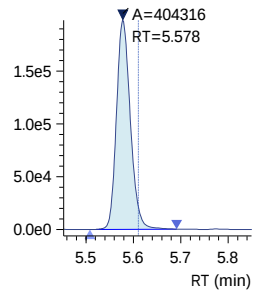
PFTrDA
Conc 1.5335
R#1 14.43 (15.29)
Q 663.00>618.90 (-) 2.66e5



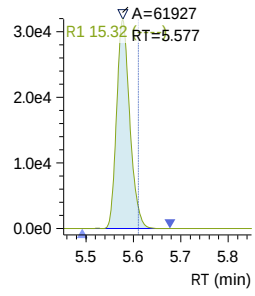
R1 662.90>169.00 (-) 4.00e4



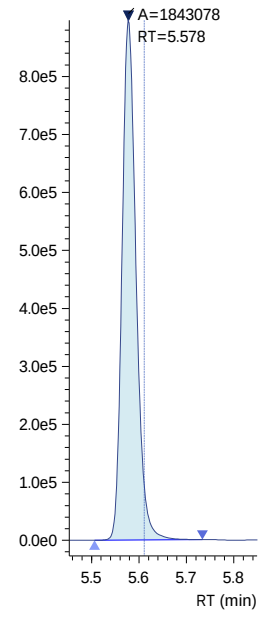
PFTeDA
Conc 0.9908
R#1 15.32 (17.47)
Q 713.00>669.00 (-) 1.98e5



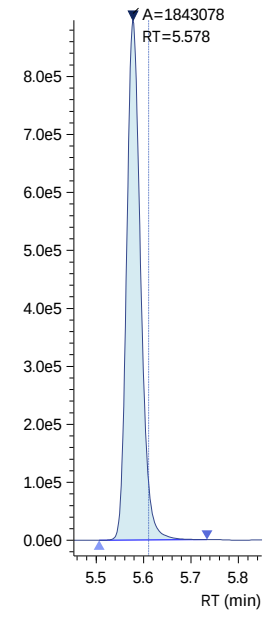
R1 713.00>169.10 (-) 3.19e4



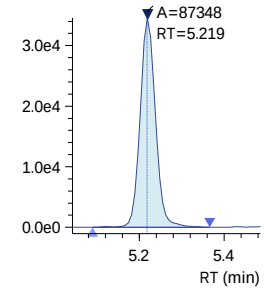
PFTeDA-13C
Conc 2.7897
Q 714.70>669.90 (-) 8.97e5

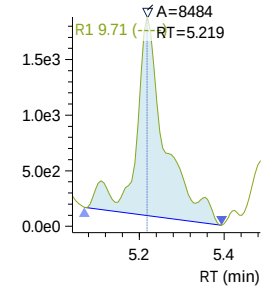


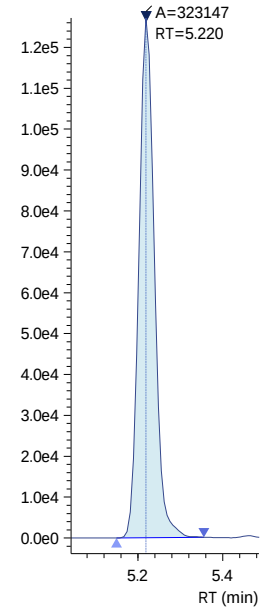
PFTeDA-13C_IS
Conc 5.0000
ISTD 714.70>669.90 (-) 8.97e5



210914_024 (continued)

FOSA
Conc 1.1271
R#1 9.71 (5.19)
Q 498.20>78.00 (-) 3.46e4


R1 498.20>64.10 (-) 1.88e3


FOSA-13C
Conc 1.1789
Q 506.00>78.05 (-) 1.27e5


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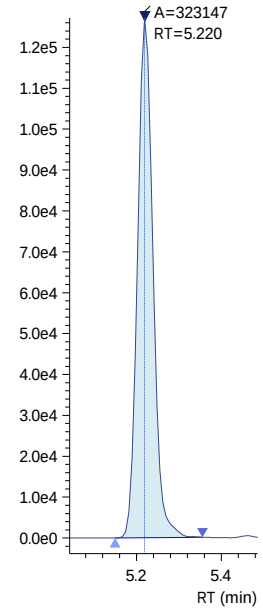
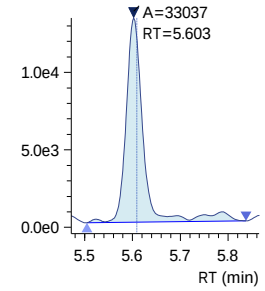
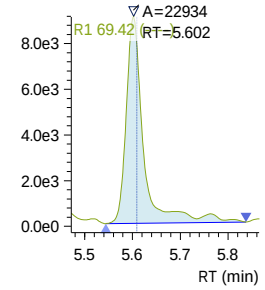
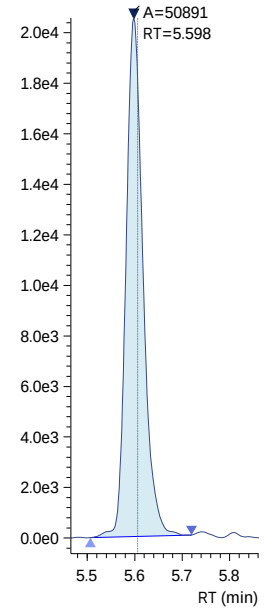
ISTD 506.00>78.05 (-) 1.27e5


N-MeFOSA
Conc 1.7051
R#1 69.42 (69.94)
Q 512.00>169.10 (-) 1.35e4


R1 512.00>219.00 (-) 9.17e3


N-MeFOSA-d3
Conc 0.8274
Q 514.90>168.90 (-) 2.06e4


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Conc 5.0000
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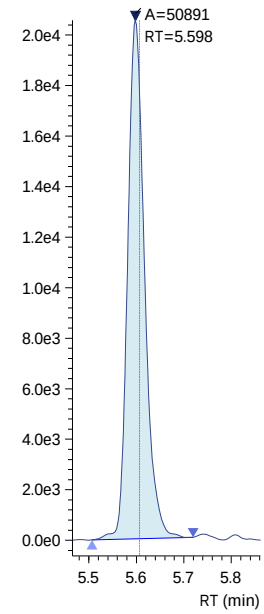
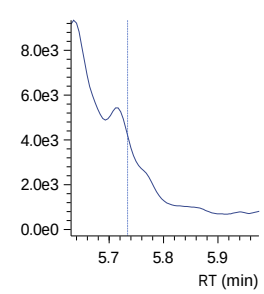
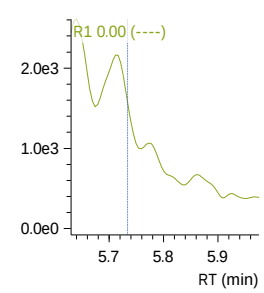
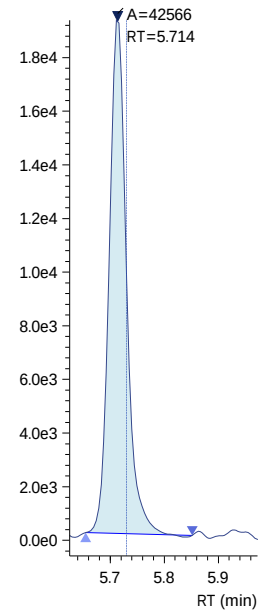
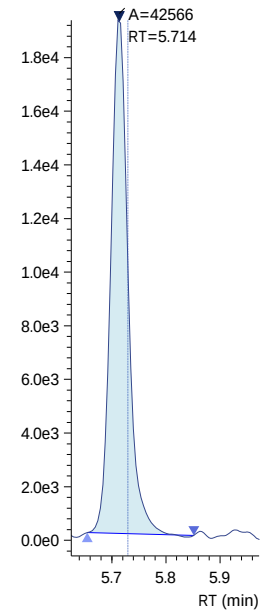
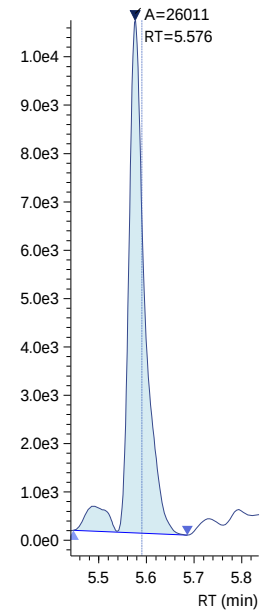


N-EtFOSA
Conc ----
R#1 0.00 (66.52)
Q 526.90>169.10 (-) 9.34e3


R1 526.90>219.00 (-) 2.61e3


N-EtFOSA-d9
Conc 0.5941
Q 530.90>169.15 (-) 1.94e4


N-EtFOSA-d9_IS
Conc 5.0000
ISTD 530.90>169.15 (-) 1.94e4


N-MeFOSE
Conc 1.1398
Q 616.00>59.00 (-) 1.08e4


210914_024 (continued)

N-MeFOSE-d7
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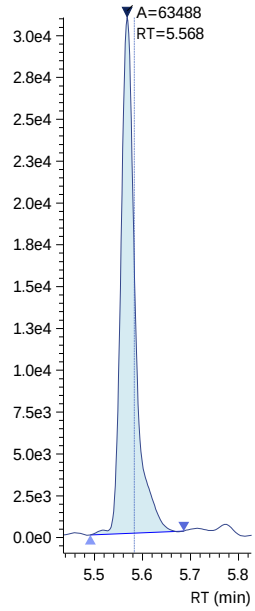
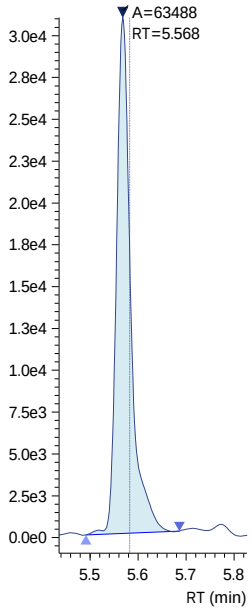
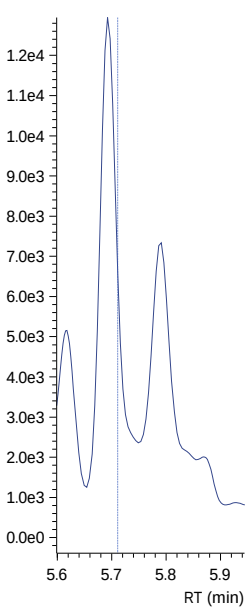
Q 622.70>59.10 (-) 3.11e4



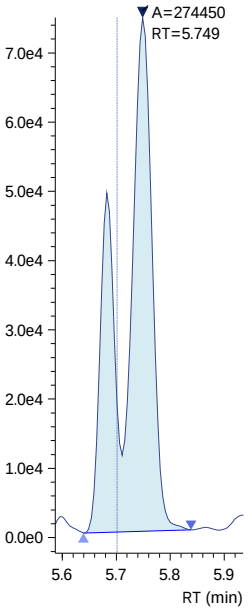
N-MeFOSE-d7_IS
Conc 5.0000
ISTD 622.70>59.10 (-) 3.11e4



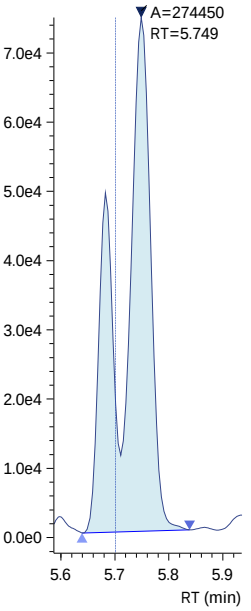
N-EtFOSE
Conc ----
Q 630.00>58.90 (-) 1.29e4



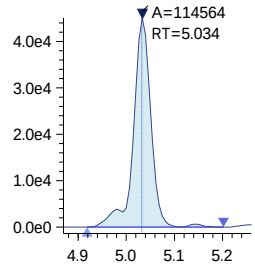
N-EtFOSE-d9
Conc 3.0600
Q 638.70>59.10 (-) 7.51e4



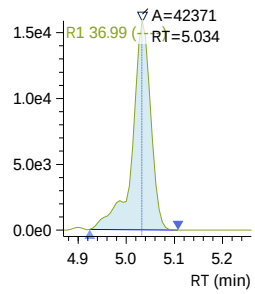
N-EtFOSE-d9_IS
Conc 5.0000
ISTD 638.70>59.10 (-) 7.51e4



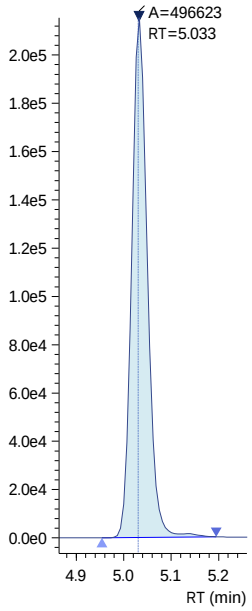
N-MeFOSAA
Conc 1.3878
R#1 36.99 (39.56)
Q 570.20>419.00 (-) 4.51e4



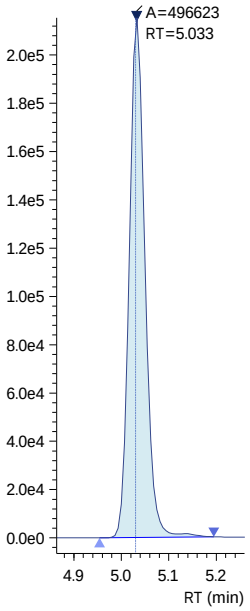
R1 570.20>512.00 (-) 1.59e4



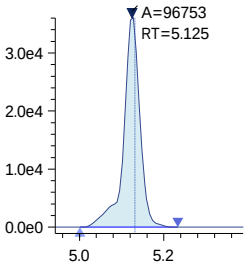
N-MeFOSAA-d3
Conc 4.5643
Q 572.80>419.05 (-) 2.15e5



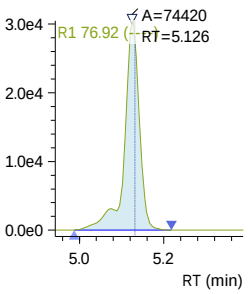
N-MeFOSAA-d3_IS
Conc 5.0000
ISTD 572.80>419.05 (-) 2.15e5



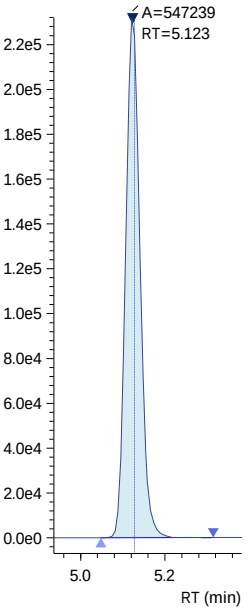
N-EtFOSAA
Conc 1.1877
R#1 76.92 (84.54)
Q 584.20>418.95 (-) 3.61e4



R1 584.20>526.10 (-) 3.05e4

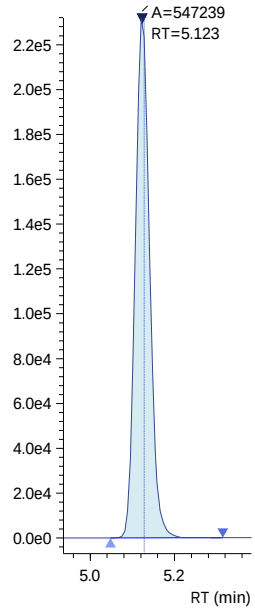


N-EtFOSAA-d5
Conc 5.9478
Q 588.80>419.00 (-) 2.32e5

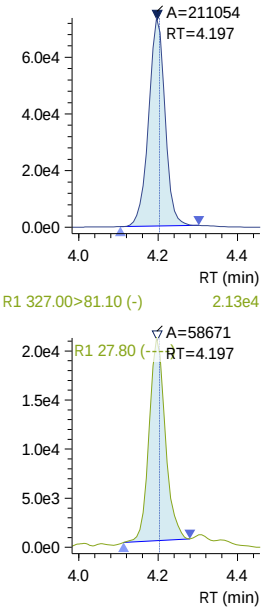


210914_024 (continued)

N-EtFOSAA-d5_IS
Conc 5.0000
ISTD 588.80>419.00 (-) 2.32e5

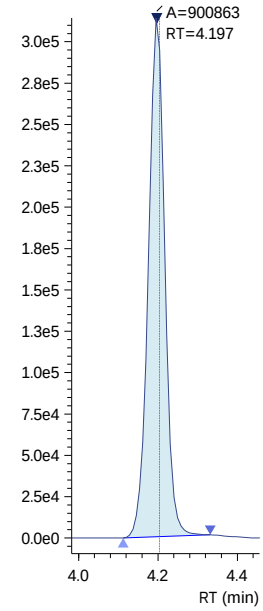


4_2-FTS_1
Conc 1.2975
R#1 27.80 (34.12)
Q 327.00>307.05 (-) 7.39e4

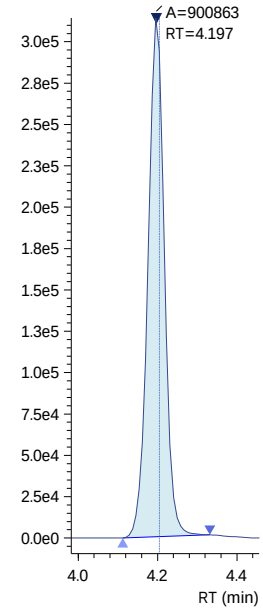


R1 327.00>81.10 (-) 2.13e4

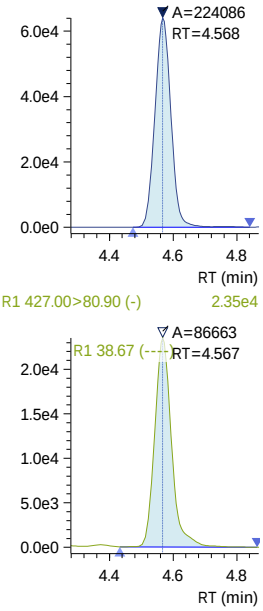
4_2-FTS-13C
Conc 8.8340
Q 328.80>309.05 (-) 3.14e5



4_2-FTS-13C_IS
Conc 5.0000
ISTD 328.80>309.05 (-) 3.14e5

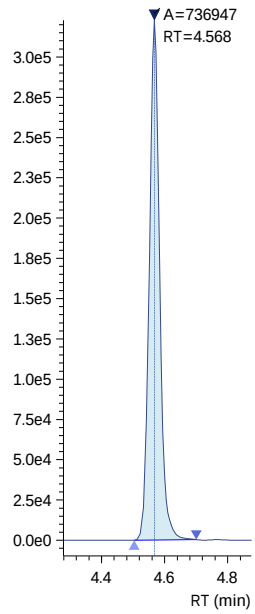


6_2-FTS_1
Conc 1.1653
R#1 38.67 (37.36)
Q 427.00>407.00 (-) 6.41e4

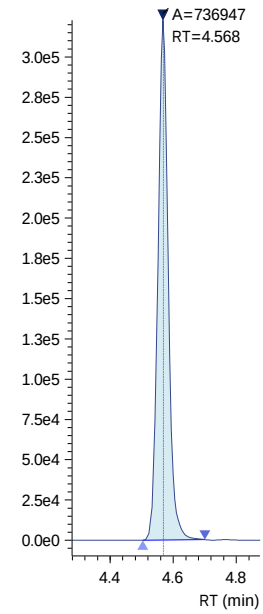


R1 427.00>80.90 (-) 2.35e4

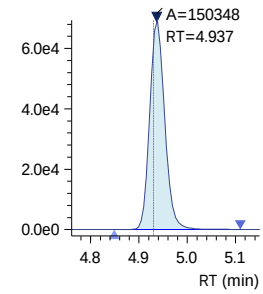
6_2-FTS-13C
Conc 8.5534
Q 428.90>409.00 (-) 3.23e5



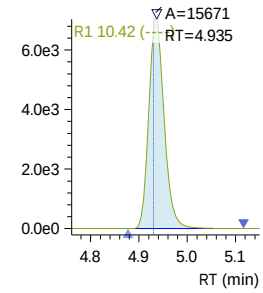
6_2-FTS-13C_IS
Conc 5.0000
ISTD 428.90>409.00 (-) 3.23e5



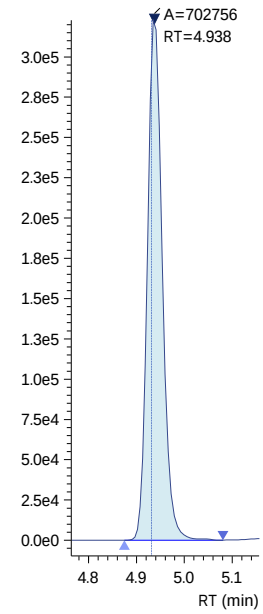
8_2-FTS_1
Conc 1.1198
R#1 10.42 (10.63)
Q 527.10>506.90 (-) 6.93e4



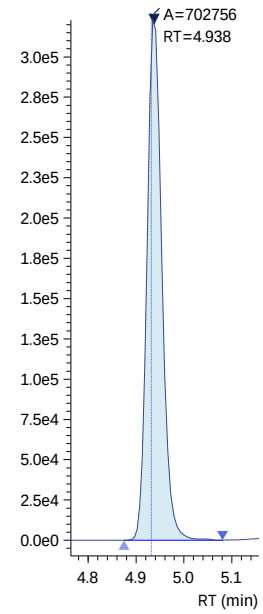
R1 527.20>487.00 (-) 7.03e3



8_2-FTS-13C
Conc 11.2202
Q 528.80>509.00 (-) 3.23e5

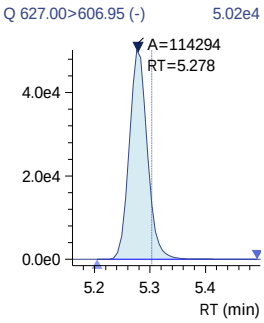


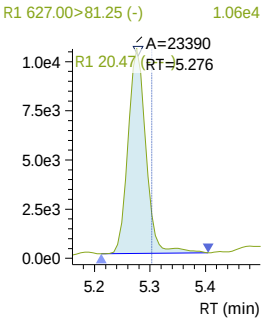
8_2-FTS-13C_IS
Conc 5.0000
ISTD 528.80>509.00 (-) 3.23e5



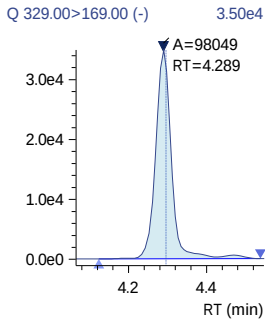
210914_024 (continued)

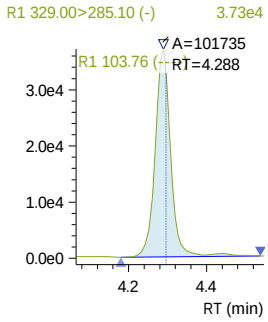
10_2-FtS_1
Conc 1.0486
R#1 20.47 (21.61)



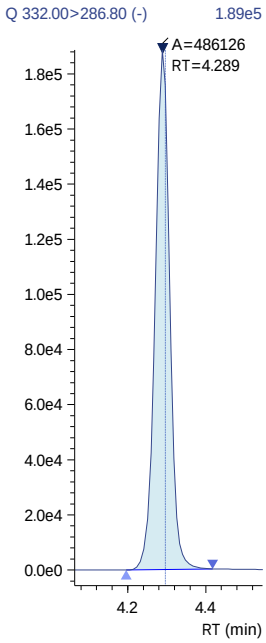


HPFO_DA
Conc 1.0089
R#1 103.76 (106.46)

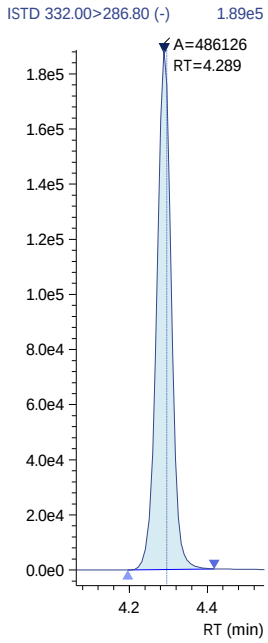




HFPO_DA-13C
Conc 5.2640



HFPO_DA-13C_IS
Conc 5.0000



1st UA 08/30/21
2nd 08/31/21

Validation Report

Data File: J:\LCMS06\Data\210823_B3\210823_008
Lab ID: KQ2116601-04
RunType: CCB
Matrix: Soil

Date Acquired: 8/23/21 16:59
Batch ID: 736760
Analysis Method: PFC/537M/PFAS

Validations

Validation Categories	Pass	Fail
ICAL Analyte Recovery	X	
Second Source ICAL Verification	X	
Continuing Calibration Recovery		X
Internal Standards	X	
Surrogates		X
Above Highest ICAL Level	X	

Analyte Exceptions

Exception Categories	Analyte Name	Result	Low Limit	High Limit	Corrective Action
Continuing Calibration Recovery	13C2-4:2 FTS	171	70	130	native in control
Surrogates	13C2-4:2 FTS	157	18	127	OK, native <MRL

Primary Review: _____

Printed: 8/31/21 15:34
\\alprews001\starlims$\LIMSReps\QuantValidation.rpt

Secondary Review: _____

1st UA 08/30/21
2nd ~~AL~~ 08/31/21

Validation Report

Data File: J:\LCMS06\Data\210823_B3\210823_008
Lab ID: KQ2116601-02
RunType: CCB
Matrix: Water

Date Acquired: 8/23/21 16:59
Batch ID: 736760
Analysis Method: PFC/537M/PFAS

Validations

Validation Categories	Pass	Fail
ICAL Analyte Recovery	X	
Second Source ICAL Verification	X	
Continuing Calibration Recovery		X
Internal Standards	X	
Surrogates		X
Above Highest ICAL Level	X	

Analyte Exceptions

Exception Categories	Analyte Name	Result	Low Limit	High Limit	Corrective Action
Continuing Calibration Recovery	13C2-4:2 FTS	171	70	130	native in control
Surrogates	D9-EtFOSE	116	19	109	OK, native <MRL

Primary Review: _____

Printed: 8/31/21 15:34
\\alprews001\starlims$\LIMSReps\QuantValidation.rpt

Secondary Review: _____

1st UA 08/30/21
2nd 08/31/21

Quantitation Report

Data File:	J:\LCMS06\Data\210823_B3\210823_008	**Instrument:**	K-LCMS-06
Acqu Date:	8/23/21 16:59	**Vial:**	27
Run Type:	CCB	**Dilution:**	1
Lab ID:	KQ2116601-04	**Raw Units:**	ng/mL

Bottle ID:		**Tier:**	II	**Matrix:**	Soil
Prod Code:	PFAS	**Collect Date:**	7/29/21	**Receive Date:**	7/30/21

Analysis Lot:	736760	**Prep Lot:**		**Report Group:**	KQ2116601
Analysis	PFC/537M	**Prep Method:**			
		Prep Date:			

Title:	Per- and Polyfluoroalkyl Substances (PFAS) by LC/MS/MS	**Calibration ID:**	KC2100446
		Report List ID:	19837

Internal Standard Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	Area Criteria
13C7-PFUnDA	5.139	+0.01	3976370	5.0000	OK

Surrogate Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	% Rec	% Rec Criteria	Rpt?
13C3-PFBS	4.037	+0.01	395114	4.8132	96	33 - 109	Y
18O2-PFHxS	4.423	+0.01	297380	5.3129	106	36 - 120	Y
13C4-PFOS	4.757	+0.01	355195	5.1059	102	32 - 130	Y
13C4-PFBA	3.420	+0.00	1868555	5.7535	115	34 - 116	Y
13C5-PFPeA	3.982	+0.01	1227069	5.7332	115	39 - 133	Y
13C2-PFHxA	4.239	+0.01	2907506	4.9339	99	32 - 136	Y
13C4-PFHpA	4.421	+0.01	3097259	5.1767	104	36 - 133	Y
13C4-PFOA	4.592	+0.01	3224486	4.8411	97	31 - 134	Y
13C5-PFNA	4.768	+0.01	2549893	5.0187	100	27 - 133	Y
13C2-PFDA	4.953	+0.01	2013055	5.3605	107	30 - 137	Y
13C2-PFUnDA	5.140	+0.01	2559560	5.1155	102	32 - 146	Y
13C2-PFDoDA	5.318	+0.01	2840229	5.1821	104	36 - 136	Y
13C2-PFTeDA	5.640	+0.01	2080539	5.6093	112	39 - 138	Y
13C8-FOSA	5.239	+0.01	1198010	5.0719	101	40 - 132	Y
D3-MeFOSA	5.630	+0.01	259345	4.7221	94	51 - 132	Y
D5-EtFOSA	5.758	+0.01	331570	5.3134	106	49 - 123	Y
D7-MeFOSE	5.606	+0.01	279631	5.0914	102	53 - 125	Y
D9-EtFOSE	5.729	+0.01	330219	5.8074	116	45 - 121	Y
13C2-6:2 FTS	4.582	+0.01	376773	4.3646	87	30 - 140	Y
13C2-8:2 FTS	4.951	+0.01	259620	5.6504	113	9 - 171	Y

Target Compounds

Final Conc.Units: ng/g

Parameter Name	RT	RT Dev	Response	Solution Conc	Final Conc	Q	Rpt?

1st UA 08/30/21

2nd 08/31/21

Data File:	J:\LCMS06\Data\210823_B3\210823_008	**Instrument:**	K-LCMS-06
Acqu Date:	8/23/21 16:59	**Vial:**	27
Run Type:	CCB	**Dilution:**	1
Lab ID:	KQ2116601-04	**Raw Units:**	ng/mL

Target Compounds

Final Conc.Units: ng/g

Parameter Name	RT	RT Dev	Response	Solution Conc	Final Conc	Q	Rpt?
Perfluorobutane sulfonic acid (PFBS)	4.042	+0.01	438	0.0031	0.025	U	Y
Perfluorohexane sulfonic acid (PFHxS)	4.421	+0.01	1688	-0.0044	0	U	Y
Perfluoroheptane sulfonic acid (PFHpS)	4.570	-0.01	152	0.0012	0.0096	U	Y
Perfluorooctane sulfonic acid (PFOS)	4.754	+0.00	62	0.0009	0.0072	U	Y
Perfluorodecane sulfonic acid (PFDS)	0		0	0	0	U	Y
Perfluorobutanoic acid (PFBA)	0		0	0	0	U	Y
Perfluoropentanoic acid (PFPeA)	3.982	+0.01	13075	0.0168	0.13	U	Y
Perfluorohexanoic acid (PFHxA)	4.231	0.00	7259	0.0092	0.074	U	Y
Perfluoroheptanoic acid (PFHpA)	4.415	0.00	2420	0.0036	0.029	U	Y
Perfluorooctanoic acid (PFOA)	4.587	+0.00	5090	0.0051	0.041	U	Y
Perfluorononanoic acid (PFNA)	4.773	+0.01	2432	0.0039	0.031	U	Y
Perfluorodecanoic acid (PFDA)	4.952	+0.01	3192	0.0053	0.042	U	Y
Perfluoroundecanoic acid (PFUnDA)	5.104	-0.03	2153	0.0035	0.028	U	Y
Perfluorododecanoic acid (PFDoDA)	5.338	+0.03	1386	0.0025	0.020	U	Y
Perfluorotridecanoic acid (PFTrDA)	5.484	+0.00	3154	0.0051	0.041	U	Y
Perfluorotetradecanoic acid (PFTeDA)	5.639	+0.00	3185	0.0068	0.054	U	Y
Perfluorooctane sulfonamide (FOSA)	5.240	+0.01	1148	0.0038	0.030	U	Y
N-Methyl perfluorooctane sulfonamide (MeFOSA)	5.627	+0.00	1054	0.0109	0.087	J	Y
N-Ethyl perfluorooctane sulfonamide (EtFOSA)	0		0	0	0	U	Y
N-Methyl perfluorooctane sulfonamidoethanol	5.484	-0.12	639	0.0052	0.042	U	Y
N-Ethyl perfluorooctane sulfonamidoethanol	0		0	0	0	U	Y
6:2 Fluorotelomer sulfonic acid (6:2 FTS)	4.585	+0.01	277	0.0026	0.021	U	Y
8:2 Fluorotelomer sulfonic acid (8:2 FTS)	4.918	-0.03	9	0.0001	0.00080	U	Y

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Quantitation Report

Data File:	J:\LCMS06\Data\210823_B3\210823_008	**Instrument:**	K-LCMS-06
Acqu Date:	8/23/21 16:59	**Vial:**	27
Run Type:	CCB	**Dilution:**	1
Lab ID:	KQ2116601-04	**Raw Units:**	ng/mL

Bottle ID:		**Tier:**	II	**Matrix:**	Soil
Prod Code:	PFAS	**Collect Date:**	7/29/21	**Receive Date:**	7/30/21

Analysis Lot:	736760	**Prep Lot:**		**Report Group:**	KQ2116601
Analysis	PFC/537M	**Prep Method:**			
		Prep Date:			

Title:	Per- and Polyfluoroalkyl Substances (PFAS) by LC/MS/MS	**Calibration ID:**	KC2100446
		Report List ID:	20091

Internal Standard Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	Area Criteria
13C7-PFUnDA	5.139	+0.01	3976370	5.0000	OK

Surrogate Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	% Rec		% Rec Criteria	Rpt?
13C3-PFBS	4.037	+0.01	395114	4.8132	96		33 - 109	Y
18O2-PFHxS	4.423	+0.01	297380	5.3129	106		36 - 120	Y
13C4-PFOS	4.757	+0.01	355195	5.1059	102		32 - 130	Y
13C4-PFBA	3.420	+0.00	1868555	5.7535	115		34 - 116	Y
13C5-PFPeA	3.982	+0.01	1227069	5.7332	115		39 - 133	Y
13C2-PFHxA	4.239	+0.01	2907506	4.9339	99		32 - 136	Y
13C4-PFHpA	4.421	+0.01	3097259	5.1767	104		36 - 133	Y
13C4-PFOA	4.592	+0.01	3224486	4.8411	97		31 - 134	Y
13C5-PFNA	4.768	+0.01	2549893	5.0187	100		27 - 133	Y
13C2-PFDA	4.953	+0.01	2013055	5.3605	107		30 - 137	Y
13C2-PFUnDA	5.140	+0.01	2559560	5.1155	102		32 - 146	Y
13C2-PFDoDA	5.318	+0.01	2840229	5.1821	104		36 - 136	Y
13C2-PFTeDA	5.640	+0.01	2080539	5.6093	112		39 - 138	Y
13C8-FOSA	5.239	+0.01	1198010	5.0719	101		40 - 132	Y
D3-MeFOSA	5.630	+0.01	259345	4.7221	94		51 - 132	Y
D5-EtFOSA	5.758	+0.01	331570	5.3134	106		49 - 123	Y
D7-MeFOSE	5.606	+0.01	279631	5.0914	102		53 - 125	Y
D9-EtFOSE	5.729	+0.01	330219	5.8074	116		45 - 121	Y
D3-MeFOSAA	5.051	+0.01	239957	5.3569	107		20 - 154	Y
D5-EtFOSAA	5.151	+0.01	236264	5.6657	113		29 - 153	Y
13C2-4:2 FTS	4.213	+0.01	718325	7.8610	157	*	18 - 127	Y
13C2-6:2 FTS	4.582	+0.01	376773	4.3646	87		30 - 140	Y
13C2-8:2 FTS	4.951	+0.01	259620	5.6504	113		9 - 171	Y
13C3-HFPO-DA	4.307	+0.01	596471	5.8055	116		33 - 130	Y

Data File:	J:\LCMS06\Data\210823_B3\210823_008	**Instrument:**	K-LCMS-06
Acqu Date:	8/23/21 16:59	**Vial:**	27
Run Type:	CCB	**Dilution:**	1
Lab ID:	KQ2116601-04	**Raw Units:**	ng/mL

Target Compounds

Final Conc.Units: ng/g

Parameter Name	RT	RT Dev	Response	Solution Conc	Final Conc	Q	Rpt?
Perfluorobutane sulfonic acid (PFBS)	4.042	+0.01	438	0.0031	0.025	U	Y
Perfluoropentane sulfonic acid (PFPeS)	4.226	-0.02	516	0.0067	0.054	U	Y
Perfluorohexane sulfonic acid (PFHxS)	4.421	+0.01	1688	-0.0044	0	U	Y
Perfluoroheptane sulfonic acid (PFHpS)	4.570	-0.01	152	0.0012	0.0096	U	Y
Perfluorooctane sulfonic acid (PFOS)	4.754	+0.00	62	0.0009	0.0072	U	Y
Perfluorononane sulfonic acid (PFNS)	0		0	0	0	U	Y
Perfluorodecane sulfonic acid (PFDS)	0		0	0	0	U	Y
Perfluorobutanoic acid (PFBA)	0		0	0	0	U	Y
Perfluoropentanoic acid (PFPeA)	3.982	+0.01	13075	0.0168	0.13	U	Y
Perfluorohexanoic acid (PFHxA)	4.231	0.00	7259	0.0092	0.074	U	Y
Perfluoroheptanoic acid (PFHpA)	4.415	0.00	2420	0.0036	0.029	U	Y
Perfluorooctanoic acid (PFOA)	4.587	+0.00	5090	0.0051	0.041	U	Y
Perfluorononanoic acid (PFNA)	4.773	+0.01	2432	0.0039	0.031	U	Y
Perfluorodecanoic acid (PFDA)	4.952	+0.01	3192	0.0053	0.042	U	Y
Perfluoroundecanoic acid (PFUnDA)	5.104	-0.03	2153	0.0035	0.028	U	Y
Perfluorododecanoic acid (PFDoDA)	5.338	+0.03	1386	0.0025	0.020	U	Y
Perfluorotridecanoic acid (PFTrDA)	5.484	+0.00	3154	0.0051	0.041	U	Y
Perfluorotetradecanoic acid (PFTeDA)	5.639	+0.00	3185	0.0068	0.054	U	Y
Perfluorooctane sulfonamide (FOSA)	5.240	+0.01	1148	0.0038	0.030	U	Y
N-Methyl perfluorooctane sulfonamide (MeFOSA)	5.627	+0.00	1054	0.0109	0.087	J	Y
N-Ethyl perfluorooctane sulfonamide (EtFOSA)	0		0	0	0	U	Y
N-Methyl perfluorooctane sulfonamidoethanol	5.484	-0.12	639	0.0052	0.042	U	Y
N-Ethyl perfluorooctane sulfonamidoethanol	0		0	0	0	U	Y
N-Methyl perfluorooctane sulfonamidoacetic acid	0		0	0	0	U	Y
N-Ethyl perfluorooctane sulfonamidoacetic acid	0		0	0	0	U	Y
4:2 Fluorotelomer sulfonic acid (4:2 FTS)	4.229	+0.02	187	0.0013	0.010	U	Y
6:2 Fluorotelomer sulfonic acid (6:2 FTS)	4.585	+0.01	277	0.0026	0.021	U	Y
8:2 Fluorotelomer sulfonic acid (8:2 FTS)	4.918	-0.03	9	0.0001	0.00080	U	Y
10:2 Fluorotelomer sulfonic acid (10:2 FTS)	0		0	0	0	U	Y
Hexafluoropropylene oxide dimer acid (HFPO-DA)	4.332	+0.03	248	0.0023	0.018	U	Y

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Printed: 8/31/21 15:34
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1st UA 08/30/21
2nd 08/31/21

Quantitation Report

Data File:	J:\LCMS06\Data\210823_B3\210823_008	**Instrument:**	K-LCMS-06
Acqu Date:	8/23/21 16:59	**Vial:**	2
Run Type:	CCB	**Dilution:**	1
Lab ID:	KQ2116601-02	**Raw Units:**	ng/mL

Bottle ID:		**Tier:**	II	**Matrix:**	Water
Prod Code:	PFAS	**Collect Date:**	8/2/21	**Receive Date:**	8/4/21

Analysis Lot:	736760	**Prep Lot:**		**Report Group:**	KQ2116601
Analysis	PFC/537M	**Prep Method:**			
		Prep Date:			

Title:	Per- and Polyfluoroalkyl Substances (PFAS) by LC/MS/MS	**Calibration ID:**	KC2100446
		Report List ID:	20091

Internal Standard Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	Area Criteria
13C7-PFUnDA	5.139	+0.01	3976370	5.0000	OK

Surrogate Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	% Rec		% Rec Criteria	Rpt?
13C3-PFBS	4.037	+0.01	395114	4.8132	96		20 - 109	Y
18O2-PFHxS	4.423	+0.01	297380	5.3129	106		26 - 122	Y
13C4-PFOS	4.757	+0.01	355195	5.1059	102		25 - 121	Y
13C4-PFBA	3.420	+0.00	1868555	5.7535	115		27 - 124	Y
13C5-PFPeA	3.982	+0.01	1227069	5.7332	115		27 - 138	Y
13C2-PFHxA	4.239	+0.01	2907506	4.9339	99		28 - 132	Y
13C4-PFHpA	4.421	+0.01	3097259	5.1767	104		19 - 139	Y
13C4-PFOA	4.592	+0.01	3224486	4.8411	97		22 - 130	Y
13C5-PFNA	4.768	+0.01	2549893	5.0187	100		20 - 127	Y
13C2-PFDA	4.953	+0.01	2013055	5.3605	107		24 - 125	Y
13C2-PFUnDA	5.140	+0.01	2559560	5.1155	102		22 - 125	Y
13C2-PFDoDA	5.318	+0.01	2840229	5.1821	104		19 - 122	Y
13C2-PFTeDA	5.640	+0.01	2080539	5.6093	112		13 - 124	Y
13C8-FOSA	5.239	+0.01	1198010	5.0719	101		18 - 109	Y
D3-MeFOSA	5.630	+0.01	259345	4.7221	94		15 - 153	Y
D5-EtFOSA	5.758	+0.01	331570	5.3134	106		25 - 107	Y
D7-MeFOSE	5.606	+0.01	279631	5.0914	102		24 - 112	Y
D9-EtFOSE	5.729	+0.01	330219	5.8074	116	*	19 - 109	Y
D3-MeFOSAA	5.051	+0.01	239957	5.3569	107		9 - 123	Y
D5-EtFOSAA	5.151	+0.01	236264	5.6657	113		12 - 126	Y
13C2-4:2 FTS	4.213	+0.01	718325	7.8610	157		10 - 197	Y
13C2-6:2 FTS	4.582	+0.01	376773	4.3646	87		10 - 226	Y
13C2-8:2 FTS	4.951	+0.01	259620	5.6504	113		10 - 202	Y
13C3-HFPO-DA	4.307	+0.01	596471	5.8055	116		22 - 135	Y

1st UA 08/30/21
2nd ~~AC~~ 08/31/21

Data File:	J:\LCMS06\Data\210823_B3\210823_008	**Instrument:**	K-LCMS-06
Acqu Date:	8/23/21 16:59	**Vial:**	2
Run Type:	CCB	**Dilution:**	1
Lab ID:	KQ2116601-02	**Raw Units:**	ng/mL

Target Compounds

Final Conc.Units: ng/L

Parameter Name	RT	RT Dev	Response	Solution Conc	Final Conc	Q	Rpt?
Perfluorobutane sulfonic acid (PFBS)	4.042	+0.01	438	0.0031	0.099	U	Y
Perfluoropentane sulfonic acid (PFPeS)	4.226	-0.02	516	0.0067	0.21	U	Y
Perfluorohexane sulfonic acid (PFHxS)	4.421	+0.01	1688	-0.0044	0	U	Y
Perfluoroheptane sulfonic acid (PFHpS)	4.570	-0.01	152	0.0012	0.038	U	Y
Perfluorooctane sulfonic acid (PFOS)	4.754	+0.00	62	0.0009	0.029	U	Y
Perfluorononane sulfonic acid (PFNS)	0		0	0	0	U	Y
Perfluorodecane sulfonic acid (PFDS)	0		0	0	0	U	Y
Perfluorobutanoic acid (PFBA)	0		0	0	0	U	Y
Perfluoropentanoic acid (PFPeA)	3.982	+0.01	13075	0.0168	0.54	U	Y
Perfluorohexanoic acid (PFHxA)	4.231	0.00	7259	0.0092	0.29	U	Y
Perfluoroheptanoic acid (PFHpA)	4.415	0.00	2420	0.0036	0.12	U	Y
Perfluorooctanoic acid (PFOA)	4.587	+0.00	5090	0.0051	0.16	U	Y
Perfluorononanoic acid (PFNA)	4.773	+0.01	2432	0.0039	0.12	U	Y
Perfluorodecanoic acid (PFDA)	4.952	+0.01	3192	0.0053	0.17	U	Y
Perfluoroundecanoic acid (PFUnDA)	5.104	-0.03	2153	0.0035	0.11	U	Y
Perfluorododecanoic acid (PFDoDA)	5.338	+0.03	1386	0.0025	0.080	U	Y
Perfluorotridecanoic acid (PFTrDA)	5.484	+0.00	3154	0.0051	0.16	U	Y
Perfluorotetradecanoic acid (PFTeDA)	5.639	+0.00	3185	0.0068	0.22	U	Y
Perfluorooctane sulfonamide (FOSA)	5.240	+0.01	1148	0.0038	0.12	U	Y
N-Methyl perfluorooctane sulfonamide (MeFOSA)	5.627	+0.00	1054	0.0109	0.35	U	Y
N-Ethyl perfluorooctane sulfonamide (EtFOSA)	0		0	0	0	U	Y
N-Methyl perfluorooctane sulfonamidoethanol	5.484	-0.12	639	0.0052	0.17	U	Y
N-Ethyl perfluorooctane sulfonamidoethanol	0		0	0	0	U	Y
N-Methyl perfluorooctane sulfonamidoacetic acid	0		0	0	0	U	Y
N-Ethyl perfluorooctane sulfonamidoacetic acid	0		0	0	0	U	Y
4:2 Fluorotelomer sulfonic acid (4:2 FTS)	4.229	+0.02	187	0.0013	0.042	U	Y
6:2 Fluorotelomer sulfonic acid (6:2 FTS)	4.585	+0.01	277	0.0026	0.083	U	Y
8:2 Fluorotelomer sulfonic acid (8:2 FTS)	4.918	-0.03	9	0.0001	0.0032	U	Y
10:2 Fluorotelomer sulfonic acid (10:2 FTS)	0		0	0	0	U	Y
Hexafluoropropylene oxide dimer acid (HFPO-DA)	4.332	+0.03	248	0.0023	0.074	U	Y

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Insight Report
Ion Ratio Confirmation
Printed 8/27/2021 17:48:55

210823_008

Sample ID: CCB
Date Acquired: 8/23/2021 4:59:48 PM
Acquired by: System Administrator
Data File: 210823_008
Vial: 9 | Inj. Volume: 15.0000uL | Tray: 1

Name	m/z	Ref 1 m/z	Area	Ref 1 Measured	Ref 1 Actual Ratio	Ref 1 Set Ratio	Comment 1	Flag ID	
13C7-PFUnDA_IS	570.00>525.00	----	3976370	----	----	----			
PFBS_1	299.00>80.00	298.80>99.00	438	115	26.26	47.76	23.88-71.64		
PFBS-13C	301.80>80.00	----	395114	----	----	----	0-0		
PFBS-13C_IS	301.80>80.00	----	395114	----	----	----	0-0		
PFPeS	349.00>99.00	349.00>79.95	516	221	42.83	136.08	68.04-204.13	IRr, SN	U
PFHxS_1	399.00>80.00	399.00>99.00	1688	1406	83.29	71.26	35.63-106.89		
PFHxS-18O	402.70>84.05	----	297380	----	----	----	0-0		
PFHxS-18O_IS	402.70>84.05	----	297380	----	----	----	0-0		
PFHpS_1	449.00>80.15	449.00>99.20	152	-195	-128.29	53.84	26.92-80.76	IRr, SN	U
PFOS_1	499.00>80.00	499.00>99.00	62	93	150.00	86.72	43.36-130.08	IRr, SN	U
PFOS-13C	502.80>80.05	----	355195	----	----	----	0-0		
PFOS-13C_IS	502.80>80.05	----	355195	----	----	----	0-0		
PFNS	549.00>99.00	549.00>79.95	----	0	0.00	129.18	64.59-193.78		
PFDS_1	599.00>79.90	599.00>99.10	----	0	0.00	90.77	45.38-136.15		
PFBA	213.00>169.10	----	----	----	----	----			
PFBA-13C	216.90>172.15	----	1868555	----	----	----			
PFBA-13C_IS	216.90>172.15	----	1868555	----	----	----			
PFPeA	263.05>219.10	----	13075	----	----	----			
PFPeA-13C	267.90>223.00	----	1227069	----	----	----	0-0		
PFPeA-13C_IS	267.90>223.00	----	1227069	----	----	----	0-0		
PFHxA	313.00>269.00	313.00>119.10	7259	803	11.07	4.17	2.08-6.25	IRr	U
PFHxA-13C	314.90>270.10	----	2907506	----	----	----	0-0		
PFHxA-13C_IS	314.90>270.10	----	2907506	----	----	----	0-0		
PFHpA	362.90>319.00	362.90>169.00	2420	402	16.61	26.04	13.02-39.07	SN	U
PFHpA-13C	366.90>322.10	----	3097259	----	----	----	0-0		
PFHpA-13C_IS	366.90>322.10	----	3097259	----	----	----	0-0		
PFOA	413.00>369.00	413.00>169.10	5090	2622	51.52	30.35	15.18-45.53	IRr	U
PFOA-13C	416.80>372.05	----	3224486	----	----	----	0-0		
PFOA-13C_IS	416.80>372.05	----	3224486	----	----	----	0-0		
PFNA	463.00>418.90	463.00>219.00	2432	0	0.00	22.35	11.18-33.53	IRr	U
PFNA-13C	467.80>423.00	----	2549893	----	----	----	0-0		
PFNA-13C_IS	467.80>423.00	----	2549893	----	----	----	0-0		
PFDA	513.00>468.80	513.00>219.10	3192	0	0.00	18.73	9.36-28.09	IRr	U
PFDA-13C	514.80>469.95	----	2013055	----	----	----	0-0		
PFDA-13C_IS	514.80>469.95	----	2013055	----	----	----	0-0		
PFUnA	563.00>518.90	563.00>219.00	2153	0	0.00	11.60	5.8-17.4	IRr	U
PFUnA-13C	564.80>519.95	----	2559560	----	----	----	0-0		
PFUnA-13C_IS	564.80>519.95	----	2559560	----	----	----	0-0		
PFDoA	613.05>569.00	613.05>169.00	1386	0	0.00	15.11	7.55-22.66	IRr	U
PFDoA-13C	614.80>569.95	----	2840229	----	----	----	0-0		
PFDoA-13C_IS	614.80>569.95	----	2840229	----	----	----	0-0		
PFTrDA	663.00>618.90	662.90>169.00	3154	0	0.00	14.19	7.09-21.28	IRr	U
PFTeDA	713.00>669.00	713.00>169.10	3185	0	0.00	14.98	7.49-22.46	IRr	U
PFTeDA-13C	714.70>669.90	----	2080539	----	----	----	0-0		
PFTeDA-13C_IS	714.70>669.90	----	2080539	----	----	----	0-0		
FOSA	498.20>78.00	498.20>64.10	1148	0	0.00	4.89	2.44-7.33	IRr	U
FOSA-13C	506.00>78.05	----	1198010	----	----	----	0-0		
FOSA-13C_IS	506.00>78.05	----	1198010	----	----	----	0-0		
N-MeFOSA	512.00>169.10	512.00>219.00	1054	305	28.94	62.72	31.36-94.08	IRr, SN	J
N-MeFOSA-d3	514.90>168.90	----	259345	----	----	----	0-0		

J:\LCMS06\Data\210823_B3\210823_B3.DAMLP .

Comment 1 field specifies acceptance range for Ref 1 ratio.
IRr - Ion ratio outside criteria. Exceedances for results above the MDL to be "K" flagged in the analytical report.

Insight Report
Ion Ratio Confirmation
Printed 8/27/2021 17:48:55

210823_008 (continued)

(Table continued from previous page)

Name	m/z	Ref 1 m/z	Area	Ref 1 Measured	Ref 1 Actual Ratio	Ref 1 Set Ratio	Comment 1	Flag ID	
N-MeFOSA-d3_IS	514.90>168.90	----	259345	----	----	----	0-0		
N-EtFOSA	526.90>169.10	526.90>219.00	----	0	0.00	63.35	31.68-95.03		
N-EtFOSA-d9	530.90>169.15	----	331570	----	----	----	0-0		
N-EtFOSA-d9_IS	530.90>169.15	----	331570	----	----	----	0-0		
N-MeFOSE	616.00>59.00	----	639	----	----	----		RTi, SN	U
N-MeFOSE-d7	622.70>59.10	----	279631	----	----	----			
N-MeFOSE-d7_IS	622.70>59.10	----	279631	----	----	----			
N-EtFOSE	630.00>58.90	----	----	----	----	----			
N-EtFOSE-d9	638.70>59.10	----	330219	----	----	----	0-0		
N-EtFOSE-d9_IS	638.70>59.10	----	330219	----	----	----	0-0		
N-MeFOSAA	570.20>419.00	570.20>512.00	----	0	0.00	35.26	17.63-52.88		
N-MeFOSAA-d3	572.80>419.05	----	239957	----	----	----	0-0		
N-MeFOSAA-d3_IS	572.80>419.05	----	239957	----	----	----	0-0		
N-EtFOSAA	584.20>418.95	584.20>526.10	----	0	0.00	77.25	38.62-115.87		
N-EtFOSAA-d5	588.80>419.00	----	236264	----	----	----	0-0		
N-EtFOSAA-d5_IS	588.80>419.00	----	236264	----	----	----	0-0		
4_2-FTS_1	327.00>307.05	327.00>81.10	187	3362	1802.42	39.85	19.92-59.77	IRr	U
4_2-FTS-13C	328.80>309.05	----	718325	----	----	----	0-0		
4_2-FTS-13C_IS	328.80>309.05	----	718325	----	----	----	0-0		
6_2-FTS_1	427.00>407.00	427.00>80.90	277	161	58.12	29.95	14.97-44.92	IRr	U
6_2-FTS-13C	428.90>409.00	----	376773	----	----	----	0-0		
6_2-FTS-13C_IS	428.90>409.00	----	376773	----	----	----	0-0		
8_2-FTS_1	527.10>506.90	527.20>487.00	9	0	0.00	9.42	4.71-14.13	IRr	U
8_2-FTS-13C	528.80>509.00	----	259620	----	----	----	0-0		
8_2-FTS-13C_IS	528.80>509.00	----	259620	----	----	----	0-0		
10_2-FtS_1	627.00>606.95	627.00>81.25	----	0	0.00	49.86	24.93-74.78		
HPFO_DA	329.00>169.00	329.00>285.10	248	-173	-69.76	101.52	50.76-152.28	IRr, SN	U
HFPO_DA-13C	332.00>286.80	----	596471	----	----	----			
HFPO_DA-13C_IS	332.00>286.80	----	596471	----	----	----			

Flag ID key: IRr: Ion Ratio (Relative), RTi: RT Diff (Absolute ISTD), SN: S/N

Comment 1 field specifies acceptance range for Ref 1 ratio.
IRr - Ion ratio outside criteria. Exceedances for results above the MDL to be "K" flagged in the analytical report.

Insight Report
Quantitation/Integration
Printed 8/30/2021 19:23:48

210823_008

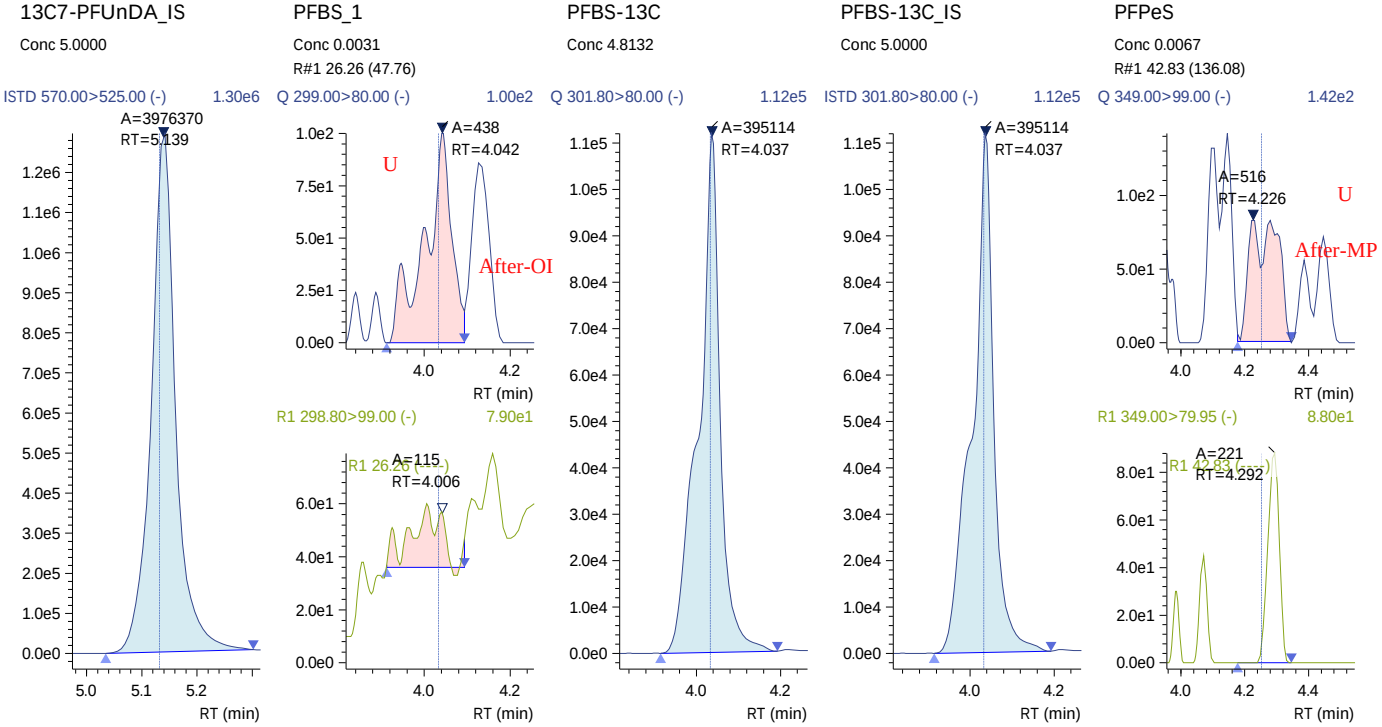
Sample ID: CCB
Date Acquired: 8/23/2021 4:59:48 PM
Acquired by: System Administrator
Data File: 210823_008
Vial: 9 | Inj. Volume: 15.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	ISTD Name	Std. Conc.	Conc.	Unit
13C7-PFUnDA_IS	Auto	5.139	3976370	3976370	----	----	5.0000	ng/mL
PFBS_1	M	4.042	438	395114	PFBS-13C_IS	----	0.0031	ng/mL
PFBS-13C	Auto	4.037	395114	3976370	13C7-PFUnDA_IS	----	4.8132	ng/mL
PFBS-13C_IS	Auto	4.037	395114	395114	----	----	5.0000	ng/mL
PFPeS	M	4.226	516	395114	PFBS-13C_IS	----	0.0067	ng/mL
PFHxS_1	Auto	4.421	1688	297380	PFHxS-18O_IS	----	-0.0044	ng/mL
PFHxS-18O	Auto	4.423	297380	3976370	13C7-PFUnDA_IS	----	5.3129	ng/mL
PFHxS-18O_IS	Auto	4.423	297380	297380	----	----	5.0000	ng/mL
PFHpS_1	M	4.570	152	297380	PFHxS-18O_IS	----	0.0012	ng/mL
PFOS_1	M	4.754	62	355195	PFOS-13C_IS	----	0.0009	ng/mL
PFOS-13C	Auto	4.757	355195	3976370	13C7-PFUnDA_IS	----	5.1059	ng/mL
PFOS-13C_IS	Auto	4.757	355195	355195	----	----	5.0000	ng/mL
PFNS	ND(W/B)	----	----	355195	PFOS-13C_IS	----	----	ng/mL
PFDS_1	ND(W/B)	----	----	355195	PFOS-13C_IS	----	----	ng/mL
PFBA	ND(W/B)	----	----	1868555	PFBA-13C_IS	----	----	ng/mL
PFBA-13C	Auto	3.420	1868555	3976370	13C7-PFUnDA_IS	----	5.7535	ng/mL
PFBA-13C_IS	Auto	3.420	1868555	1868555	----	----	5.0000	ng/mL
PFPeA	M	3.982	13075	1227069	PFPeA-13C_IS	----	0.0168	ng/mL
PFPeA-13C	Auto	3.982	1227069	3976370	13C7-PFUnDA_IS	----	5.7332	ng/mL
PFPeA-13C_IS	Auto	3.982	1227069	1227069	----	----	5.0000	ng/mL
PFHxA	M	4.231	7259	2907506	PFHxA-13C_IS	----	0.0092	ng/mL
PFHxA-13C	Auto	4.239	2907506	3976370	13C7-PFUnDA_IS	----	4.9339	ng/mL
PFHxA-13C_IS	Auto	4.239	2907506	2907506	----	----	5.0000	ng/mL
PFHpA	M	4.415	2420	3097259	PFHpA-13C_IS	----	0.0036	ng/mL
PFHpA-13C	Auto	4.421	3097259	3976370	13C7-PFUnDA_IS	----	5.1767	ng/mL
PFHpA-13C_IS	Auto	4.421	3097259	3097259	----	----	5.0000	ng/mL
PFOA	M	4.587	5090	3224486	PFOA-13C_IS	----	0.0051	ng/mL
PFOA-13C	Auto	4.592	3224486	3976370	13C7-PFUnDA_IS	----	4.8411	ng/mL
PFOA-13C_IS	Auto	4.592	3224486	3224486	----	----	5.0000	ng/mL
PFNA	Auto	4.773	2432	2549893	PFNA-13C_IS	----	0.0039	ng/mL
PFNA-13C	Auto	4.768	2549893	3976370	13C7-PFUnDA_IS	----	5.0187	ng/mL
PFNA-13C_IS	Auto	4.768	2549893	2549893	----	----	5.0000	ng/mL
PFDA	Auto	4.952	3192	2013055	PFDA-13C_IS	----	0.0053	ng/mL
PFDA-13C	Auto	4.953	2013055	3976370	13C7-PFUnDA_IS	----	5.3605	ng/mL
PFDA-13C_IS	Auto	4.953	2013055	2013055	----	----	5.0000	ng/mL
PFUnA	M	5.104	2153	2559560	PFUnA-13C_IS	----	0.0035	ng/mL
PFUnA-13C	Auto	5.140	2559560	3976370	13C7-PFUnDA_IS	----	5.1155	ng/mL
PFUnA-13C_IS	Auto	5.140	2559560	2559560	----	----	5.0000	ng/mL
PFDoA	Auto	5.338	1386	2840229	PFDoA-13C_IS	----	0.0025	ng/mL
PFDoA-13C	Auto	5.318	2840229	3976370	13C7-PFUnDA_IS	----	5.1821	ng/mL
PFDoA-13C_IS	Auto	5.318	2840229	2840229	----	----	5.0000	ng/mL
PFTrDA	M	5.484	3154	2080539	PFTeDA-13C_IS	----	0.0051	ng/mL
PFTeDA	M	5.639	3185	2080539	PFTeDA-13C_IS	----	0.0068	ng/mL
PFTeDA-13C	Auto	5.640	2080539	3976370	13C7-PFUnDA_IS	----	5.6093	ng/mL
PFTeDA-13C_IS	Auto	5.640	2080539	2080539	----	----	5.0000	ng/mL
FOSA	M	5.240	1148	1198010	FOSA-13C_IS	----	0.0038	ng/mL
FOSA-13C	Auto	5.239	1198010	3976370	13C7-PFUnDA_IS	----	5.0719	ng/mL
FOSA-13C_IS	Auto	5.239	1198010	1198010	----	----	5.0000	ng/mL
N-MeFOSA	M	5.627	1054	259345	N-MeFOSA-d3_IS	----	0.0109	ng/mL
N-MeFOSA-d3	Auto	5.630	259345	3976370	13C7-PFUnDA_IS	----	4.7221	ng/mL
N-MeFOSA-d3_IS	Auto	5.630	259345	259345	----	----	5.0000	ng/mL
N-EtFOSA	ND(W/B)	----	----	331570	N-EtFOSA-d9_IS	----	----	ng/mL
N-EtFOSA-d9	Auto	5.758	331570	3976370	13C7-PFUnDA_IS	----	5.3134	ng/mL
N-EtFOSA-d9_IS	Auto	5.758	331570	331570	----	----	5.0000	ng/mL

210823_008 (continued)

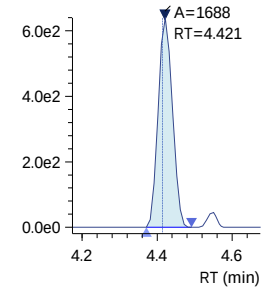
(Table continued from previous page)

Name	Mode ID	Found RT	Area	ISTD Area	ISTD Name	Std. Conc.	Conc.	Unit
N-MeFOSE	M	5.484	639	279631	N-MeFOSE-d7_IS	----	0.0052	ng/mL
N-MeFOSE-d7	Auto	5.606	279631	3976370	13C7-PFUnDA_IS	----	5.0914	ng/mL
N-MeFOSE-d7_IS	Auto	5.606	279631	279631	----	----	5.0000	ng/mL
N-EtFOSE	ND(W/B)	----	----	330219	N-EtFOSE-d9_IS	----	----	ng/mL
N-EtFOSE-d9	Auto	5.729	330219	3976370	13C7-PFUnDA_IS	----	5.8074	ng/mL
N-EtFOSE-d9_IS	Auto	5.729	330219	330219	----	----	5.0000	ng/mL
N-MeFOSAA	ND(W/B)	----	----	239957	N-MeFOSAA-d3_IS	----	----	ng/mL
N-MeFOSAA-d3	Auto	5.051	239957	3976370	13C7-PFUnDA_IS	----	5.3569	ng/mL
N-MeFOSAA-d3_IS	Auto	5.051	239957	239957	----	----	5.0000	ng/mL
N-EtFOSAA	ND(W/B)	----	----	236264	N-EtFOSAA-d5_IS	----	----	ng/mL
N-EtFOSAA-d5	Auto	5.151	236264	3976370	13C7-PFUnDA_IS	----	5.6657	ng/mL
N-EtFOSAA-d5_IS	Auto	5.151	236264	236264	----	----	5.0000	ng/mL
4_2-FTS_1	M	4.229	187	718325	4_2-FTS-13C_IS	----	0.0013	ng/mL
4_2-FTS-13C	Auto	4.213	718325	3976370	13C7-PFUnDA_IS	----	7.8610	ng/mL
4_2-FTS-13C_IS	Auto	4.213	718325	718325	----	----	5.0000	ng/mL
6_2-FTS_1	Auto	4.585	277	376773	6_2-FTS-13C_IS	----	0.0026	ng/mL
6_2-FTS-13C	Auto	4.582	376773	3976370	13C7-PFUnDA_IS	----	4.3646	ng/mL
6_2-FTS-13C_IS	Auto	4.582	376773	376773	----	----	5.0000	ng/mL
8_2-FTS_1	Auto	4.918	9	259620	8_2-FTS-13C_IS	----	0.0001	ng/mL
8_2-FTS-13C	Auto	4.951	259620	3976370	13C7-PFUnDA_IS	----	5.6504	ng/mL
8_2-FTS-13C_IS	Auto	4.951	259620	259620	----	----	5.0000	ng/mL
10_2-FtS_1	ND(W/B)	----	----	259620	8_2-FTS-13C_IS	----	----	ng/mL
HPFO_DA	M	4.332	248	596471	HFPO_DA-13C_IS	----	0.0023	ng/mL
HFPO_DA-13C	Auto	4.307	596471	3976370	13C7-PFUnDA_IS	----	5.8055	ng/mL
HFPO_DA-13C_IS	Auto	4.307	596471	596471	----	----	5.0000	ng/mL

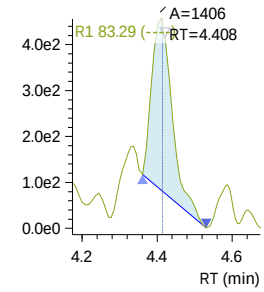


210823_008 (continued)

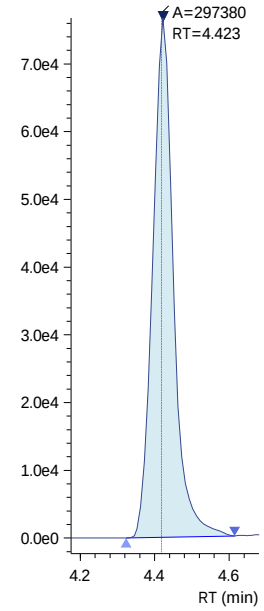
PFHxS_1
Conc -0.0044
R#1 83.29 (71.26)
Q 399.00>80.00 (-) 6.39e2



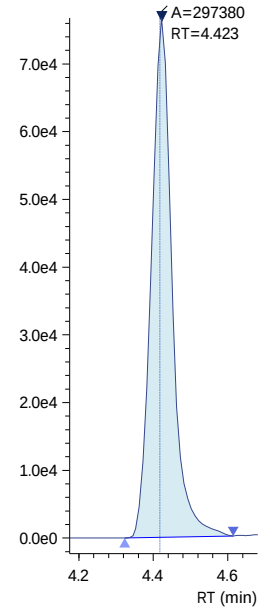
R1 399.00>99.00 (-) 4.56e2



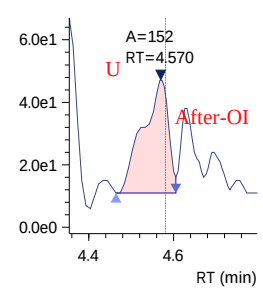
PFHxS-18O
Conc 5.3129
Q 402.70>84.05 (-) 7.68e4



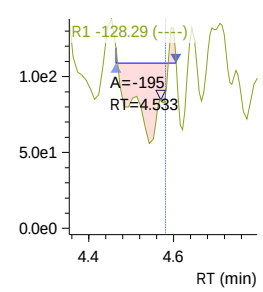
PFHxS-18O_IS
Conc 5.0000
ISTD 402.70>84.05 (-) 7.68e4



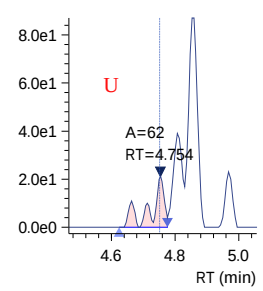
PFHpS_1
Conc 0.0012
R#1 -128.29 (53.84)
Q 449.00>80.15 (-) 6.70e1



R1 449.00>99.20 (-) 1.38e2

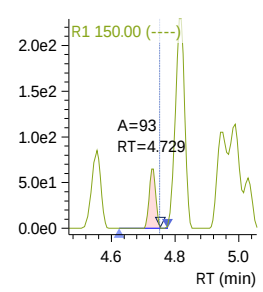


PFOS_1
Conc 0.0009
R#1 150.00 (86.72)
Q 499.00>80.00 (-) 8.70e1

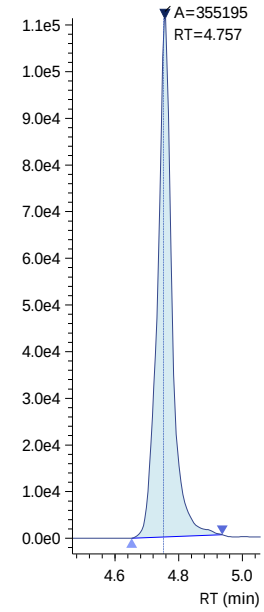


After-OI

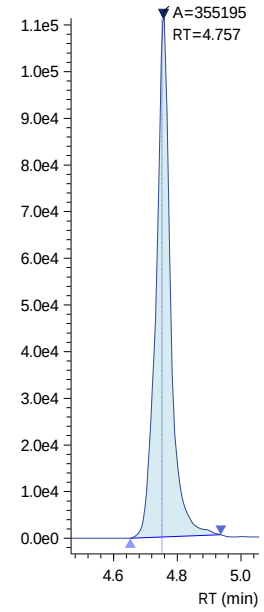
R1 499.00>99.00 (-) 2.29e2



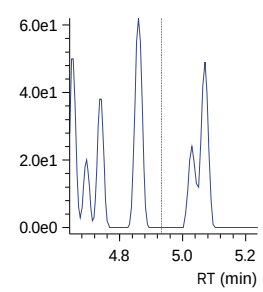
PFOS-13C
Conc 5.1059
Q 502.80>80.05 (-) 1.11e5



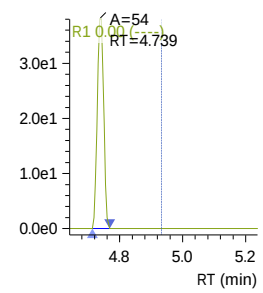
PFOS-13C_IS
Conc 5.0000
ISTD 502.80>80.05 (-) 1.11e5



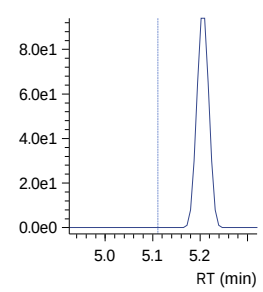
PFNS
Conc ----
R#1 0.00 (129.18)
Q 549.00>99.00 (-) 6.20e1



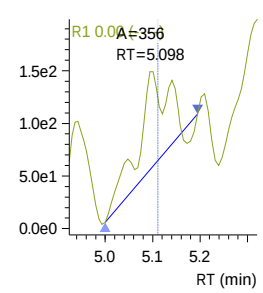
R1 549.00>79.95 (-) 3.80e1



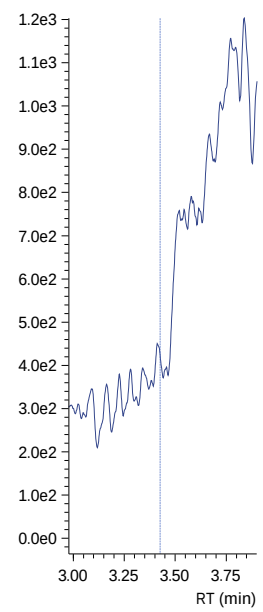
PFDS_1
Conc ----
R#1 0.00 (90.77)
Q 599.00>79.90 (-) 9.40e1



R1 599.00>99.10 (-) 1.99e2

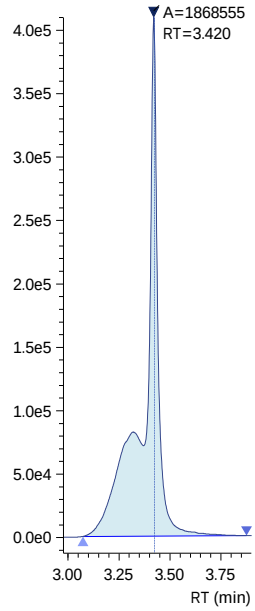


PFBA
Conc ----
Q 213.00>169.10 (-) 1.20e3

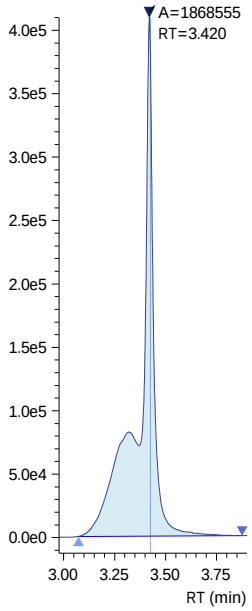


210823_008 (continued)

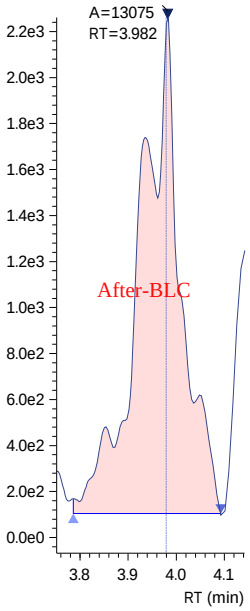
PFBA-13C
Conc 5.7535
Q 216.90>172.15 (-) 4.10e5



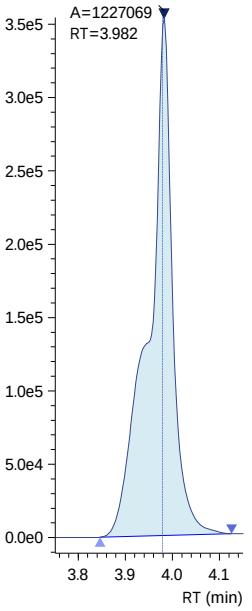
PFBA-13C_IS
Conc 5.0000
ISTD 216.90>172.15 (-) 4.10e5



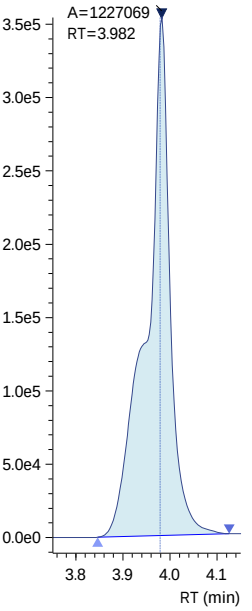
PFPeA
Conc 0.0168
Q 263.05>219.10 (-) 2.26e3



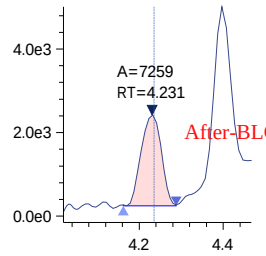
PFPeA-13C
Conc 5.7332
Q 267.90>223.00 (-) 3.55e5



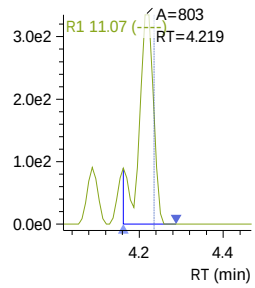
PFPeA-13C_IS
Conc 5.0000
ISTD 267.90>223.00 (-) 3.55e5



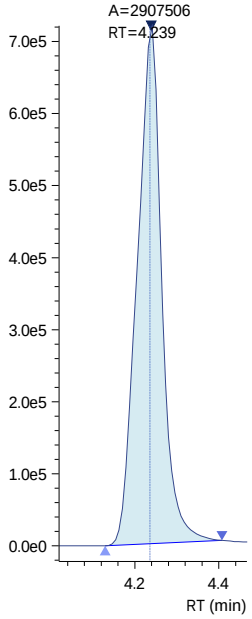
PFHxA
Conc 0.0092
R#1 11.07 (4.17)
Q 313.00>269.00 (-) 5.01e3



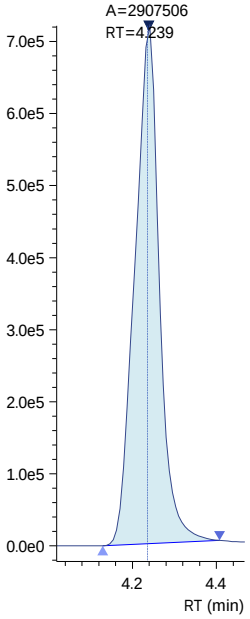
R1 313.00>119.10 (-) 3.35e2



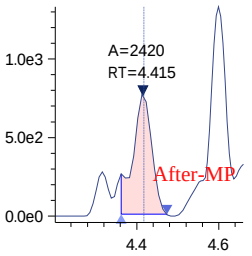
PFHxA-13C
Conc 4.9339
Q 314.90>270.10 (-) 7.22e5



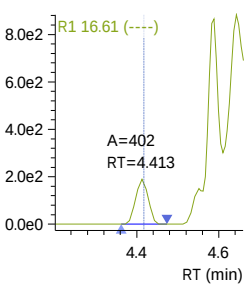
PFHxA-13C_IS
Conc 5.0000
ISTD 314.90>270.10 (-) 7.22e5



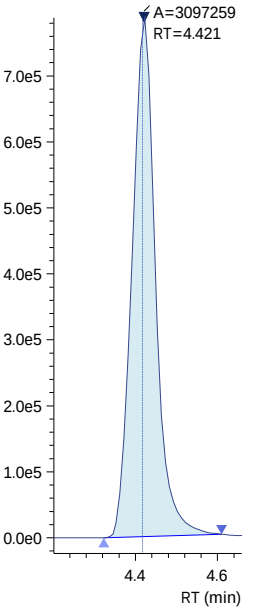
PFHpA
Conc 0.0036
R#1 16.61 (26.04)
Q 362.90>319.00 (-) 1.33e3



R1 362.90>169.00 (-) 8.83e2

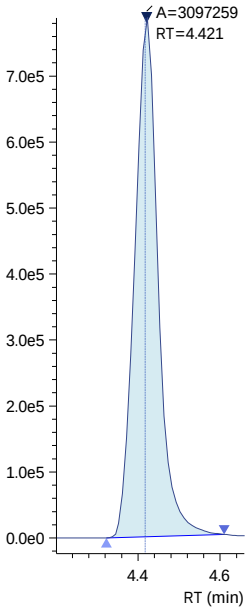


PFHpA-13C
Conc 5.1767
Q 366.90>322.10 (-) 7.88e5

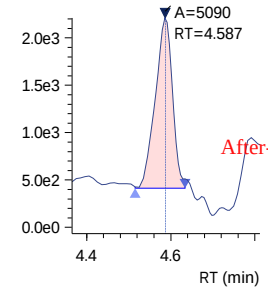


210823_008 (continued)

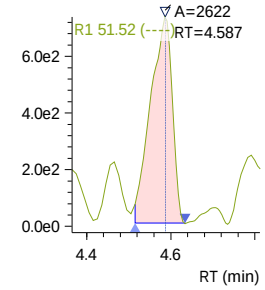
PFHpA-13C_IS
Conc 5.0000
ISTD 366.90>322.10 (-) 7.88e5



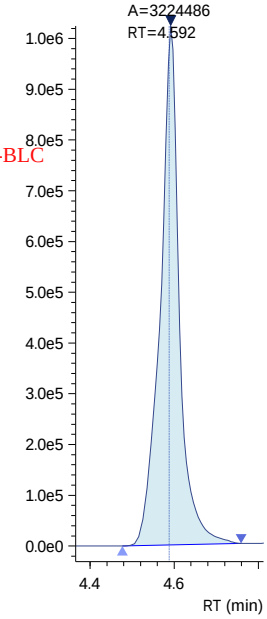
PFOA
Conc 0.0051
R#1 51.52 (30.35)
Q 413.00>369.00 (-) 2.21e3



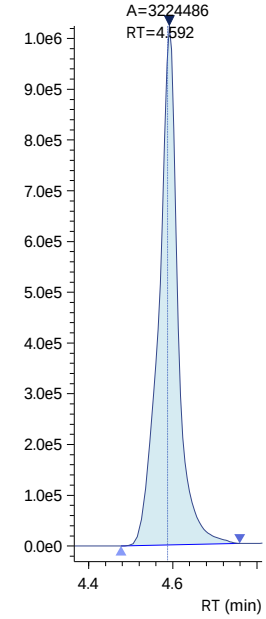
R1 413.00>169.10 (-) 7.39e2



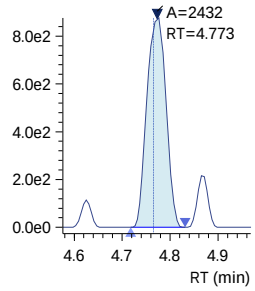
PFOA-13C
Conc 4.8411
Q 416.80>372.05 (-) 1.02e6



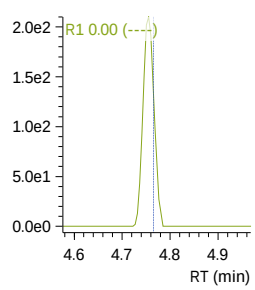
PFOA-13C_IS
Conc 5.0000
ISTD 416.80>372.05 (-) 1.02e6



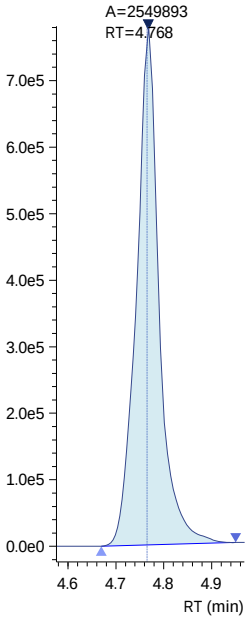
PFNA
Conc 0.0039
R#1 0.00 (22.35)
Q 463.00>418.90 (-) 8.76e2



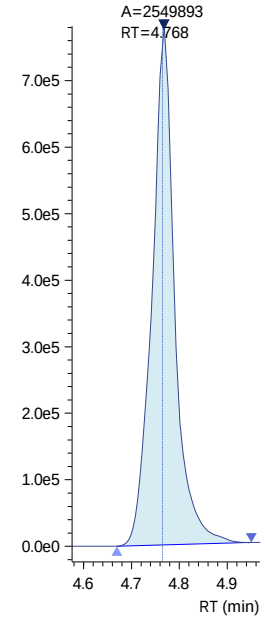
R1 463.00>219.00 (-) 2.10e2



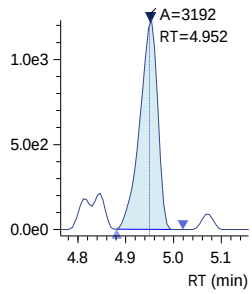
PFNA-13C
Conc 5.0187
Q 467.80>423.00 (-) 7.82e5



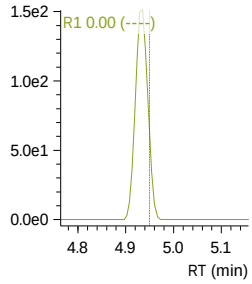
PFNA-13C_IS
Conc 5.0000
ISTD 467.80>423.00 (-) 7.82e5



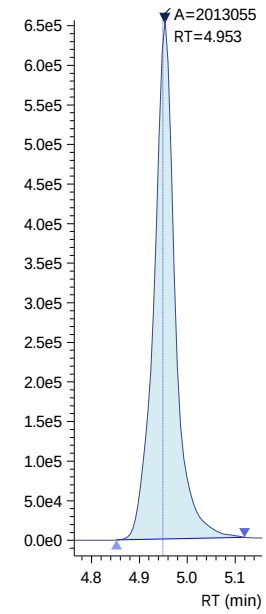
PFDA
Conc 0.0053
R#1 0.00 (18.73)
Q 513.00>468.80 (-) 1.23e3



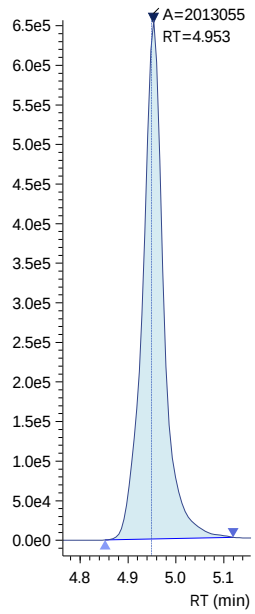
R1 513.00>219.10 (-) 1.51e2



PFDA-13C
Conc 5.3605
Q 514.80>469.95 (-) 6.57e5

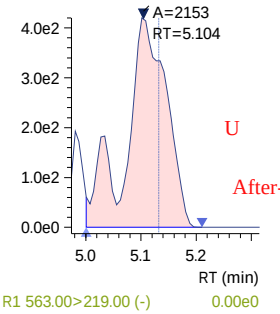


PFDA-13C_IS
Conc 5.0000
ISTD 514.80>469.95 (-) 6.57e5

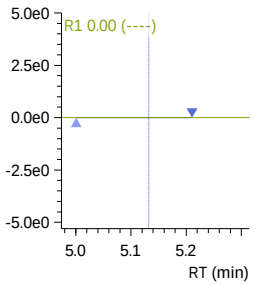


210823_008 (continued)

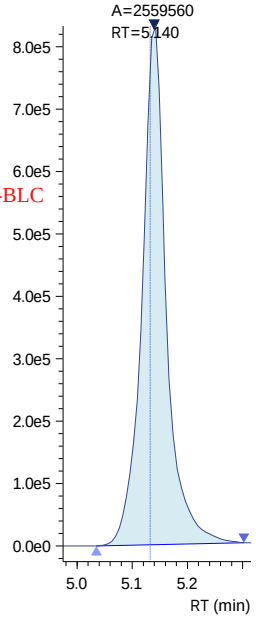
PFUnA
Conc 0.0035
R#1 0.00 (11.60)
Q 563.00>518.90 (-) 4.20e2



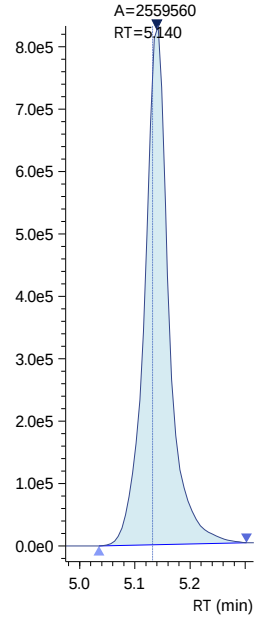
R1 563.00>219.00 (-) 0.00e0



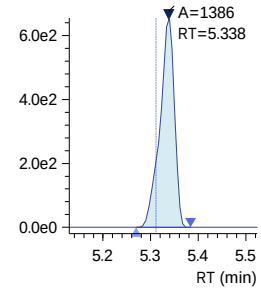
PFUnA-13C
Conc 5.1155
Q 564.80>519.95 (-) 8.33e5



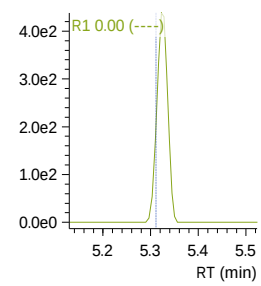
PFUnA-13C_IS
Conc 5.0000
ISTD 564.80>519.95 (-) 8.33e5



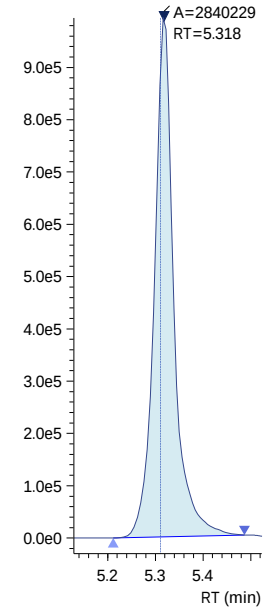
PFDoA
Conc 0.0025
R#1 0.00 (15.11)
Q 613.05>569.00 (-) 6.55e2



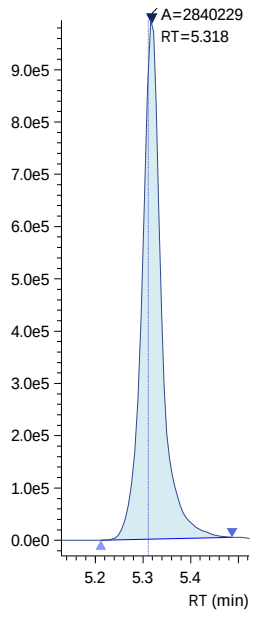
R1 613.05>169.00 (-) 4.38e2



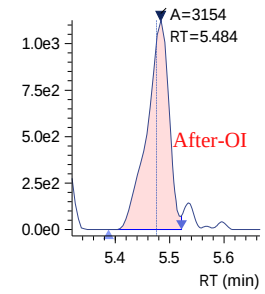
PFDoA-13C
Conc 5.1821
Q 614.80>569.95 (-) 9.95e5



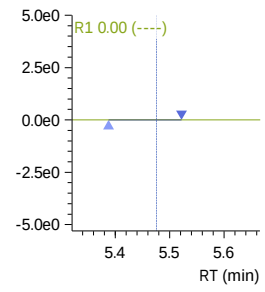
PFDoA-13C_IS
Conc 5.0000
ISTD 614.80>569.95 (-) 9.95e5



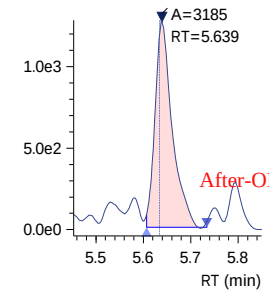
PFTrDA
Conc 0.0051
R#1 0.00 (14.19)
Q 663.00>618.90 (-) 1.13e3



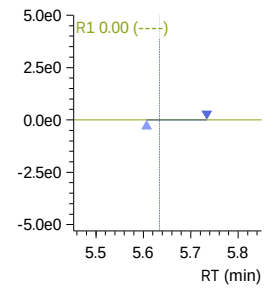
R1 662.90>169.00 (-) 0.00e0



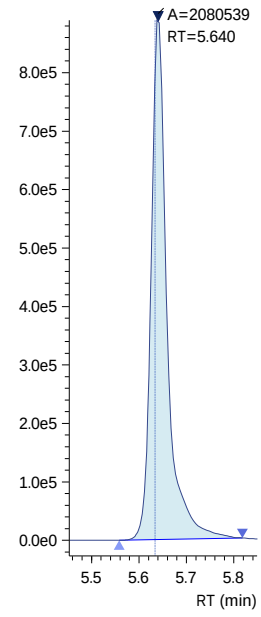
PFTeDA
Conc 0.0068
R#1 0.00 (14.98)
Q 713.00>669.00 (-) 1.29e3



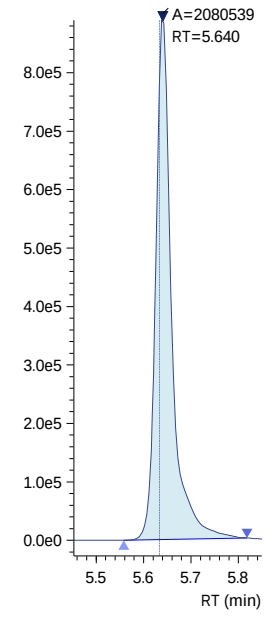
R1 713.00>169.10 (-) 0.00e0



PFTeDA-13C
Conc 5.6093
Q 714.70>669.90 (-) 8.90e5

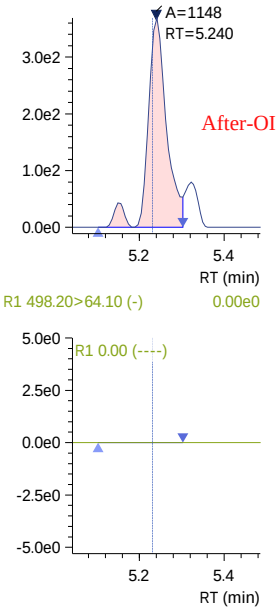


PFTeDA-13C_IS
Conc 5.0000
ISTD 714.70>669.90 (-) 8.90e5

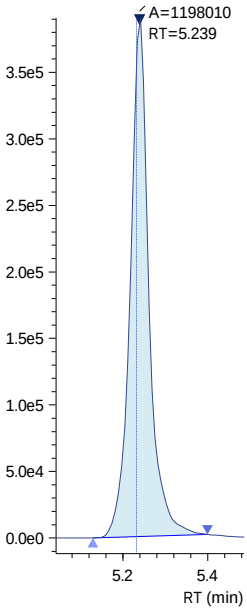


210823_008 (continued)

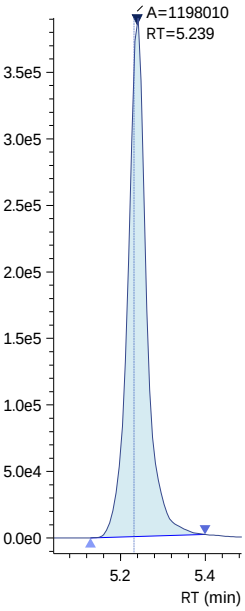
FOSA
Conc 0.0038
R#1 0.00 (4.89)
Q 498.20>78.00 (-) 3.69e2
R1 498.20>64.10 (-) 0.00e0



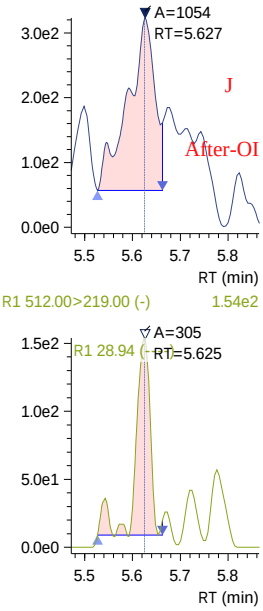
FOSA-13C
Conc 5.0719
Q 506.00>78.05 (-) 3.91e5



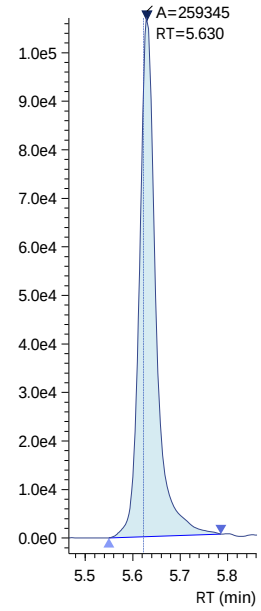
FOSA-13C_IS
Conc 5.0000
ISTD 506.00>78.05 (-) 3.91e5



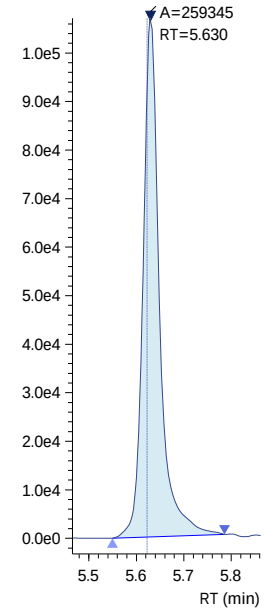
N-MeFOSA
Conc 0.0109
R#1 28.94 (62.72)
Q 512.00>169.10 (-) 3.23e2
R1 512.00>219.00 (-) 1.54e2



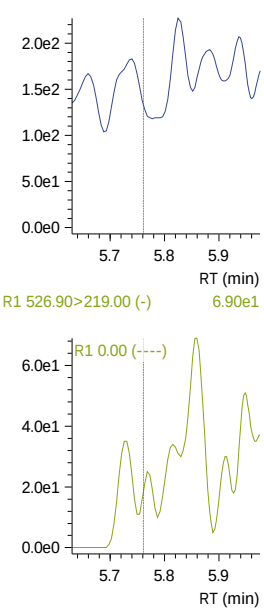
N-MeFOSA-d3
Conc 4.7221
Q 514.90>168.90 (-) 1.07e5



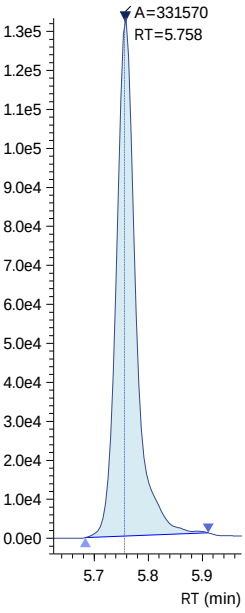
N-MeFOSA-d3_IS
Conc 5.0000
ISTD 514.90>168.90 (-) 1.07e5



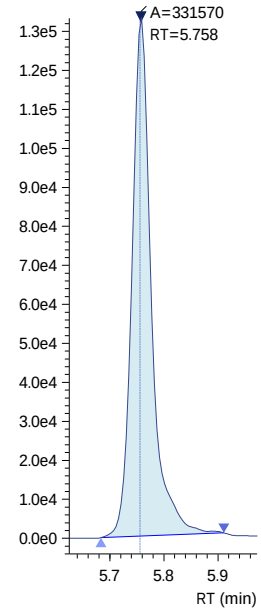
N-MeFOSA
Conc ----
R#1 0.00 (63.35)
Q 526.90>169.10 (-) 2.27e2
R1 526.90>219.00 (-) 6.90e1



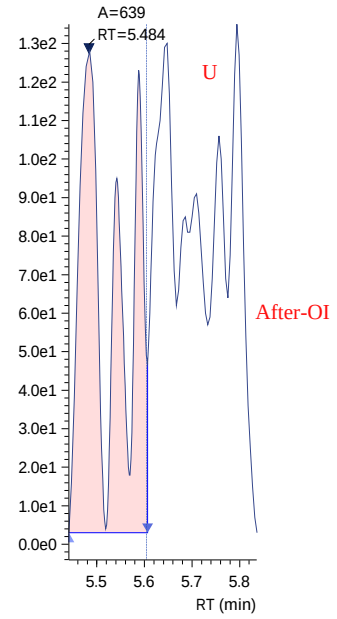
N-EtFOSA-d9
Conc 5.3134
Q 530.90>169.15 (-) 1.33e5



N-EtFOSA-d9_IS
Conc 5.0000
ISTD 530.90>169.15 (-) 1.33e5

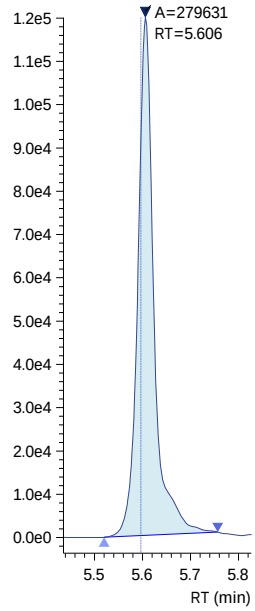


N-MeFOSE
Conc 0.0052
Q 616.00>59.00 (-) 1.35e2

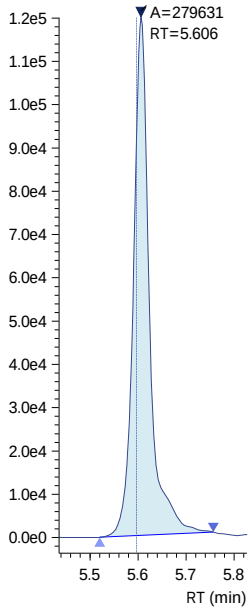


210823_008 (continued)

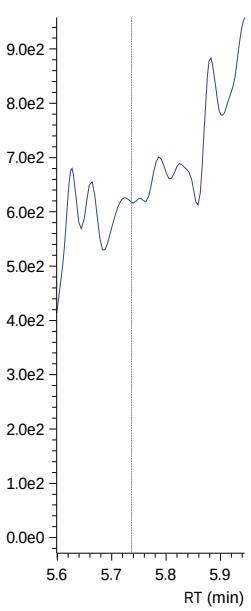
N-MeFOSE-d7
Conc 5.0914
Q 622.70>59.10 (-) 1.20e5



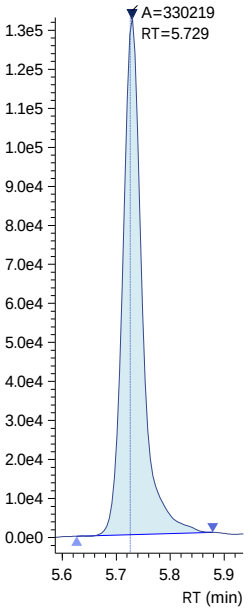
N-MeFOSE-d7_IS
Conc 5.0000
ISTD 622.70>59.10 (-) 1.20e5



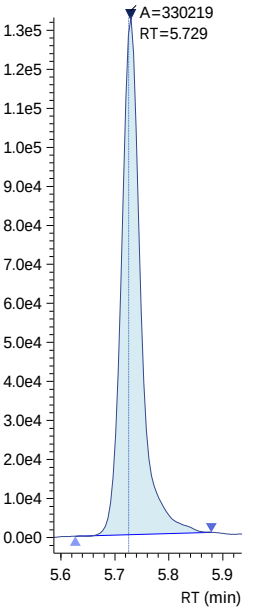
N-EtFOSE
Conc ----
Q 630.00>58.90 (-) 9.58e2



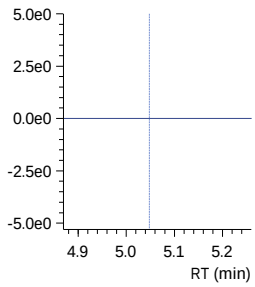
N-EtFOSE-d9
Conc 5.8074
Q 638.70>59.10 (-) 1.33e5



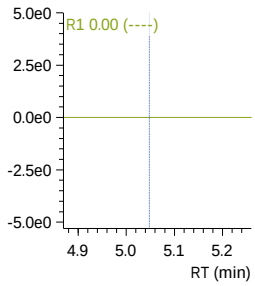
N-EtFOSE-d9_IS
Conc 5.0000
ISTD 638.70>59.10 (-) 1.33e5



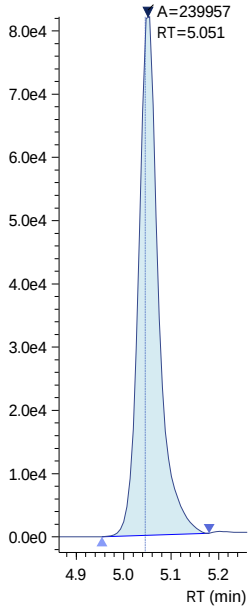
N-MeFOSAA
Conc ----
R#1 0.00 (35.26)
Q 570.20>419.00 (-) 0.00e0



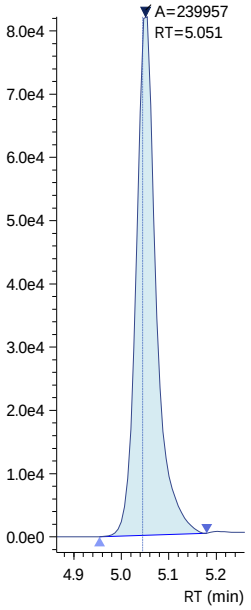
R1 570.20>512.00 (-) 0.00e0



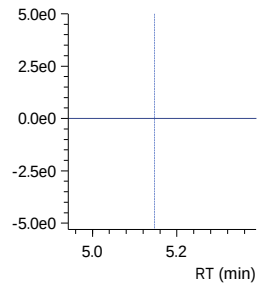
N-MeFOSAA-d3
Conc 5.3569
Q 572.80>419.05 (-) 8.22e4



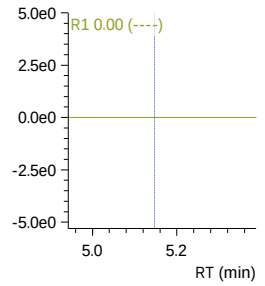
N-MeFOSAA-d3_IS
Conc 5.0000
ISTD 572.80>419.05 (-) 8.22e4



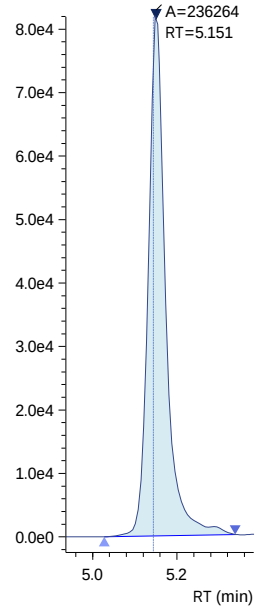
N-EtFOSAA
Conc ----
R#1 0.00 (77.25)
Q 584.20>418.95 (-) 0.00e0



R1 584.20>526.10 (-) 0.00e0

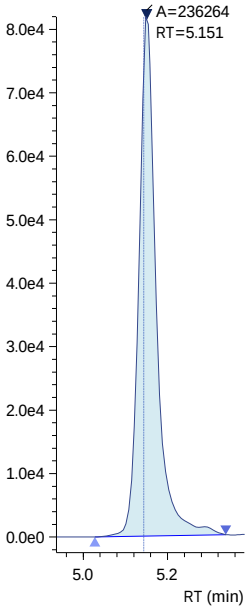


N-EtFOSAA-d5
Conc 5.6657
Q 588.80>419.00 (-) 8.20e4

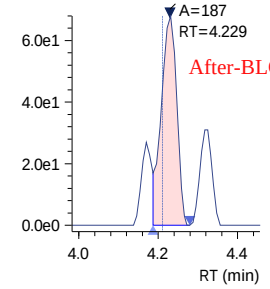


210823_008 (continued)

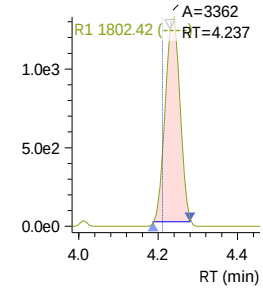
N-EtFOSAA-d5_IS
Conc 5.0000
ISTD 588.80>419.00 (-) 8.20e4



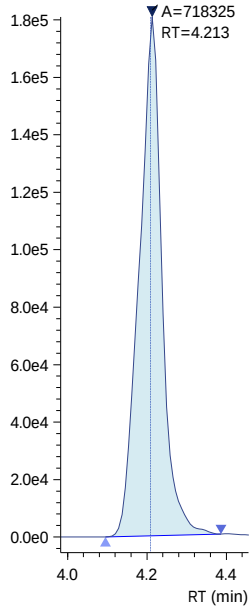
4_2-FTS_1
Conc 0.0013
R#1 1802.42 (39.85)
Q 327.00>307.05 (-) 6.80e1



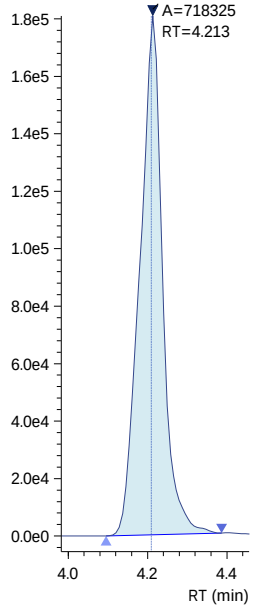
R1 327.00>81.10 (-) 1.33e3



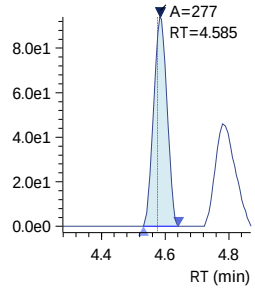
4_2-FTS-13C
Conc 7.8610
Q 328.80>309.05 (-) 1.81e5



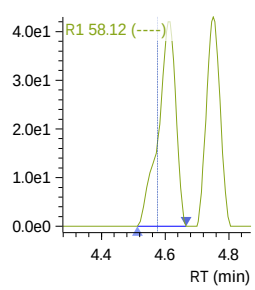
4_2-FTS-13C_IS
Conc 5.0000
ISTD 328.80>309.05 (-) 1.81e5



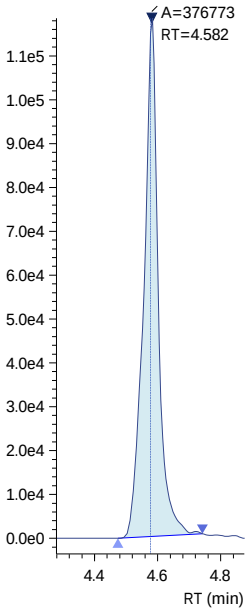
6_2-FTS_1
Conc 0.0026
R#1 58.12 (29.95)
Q 427.00>407.00 (-) 9.40e1



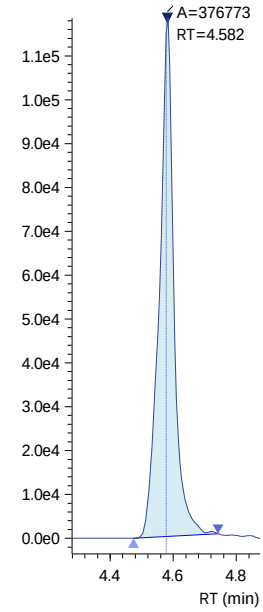
R1 427.00>80.90 (-) 4.30e1



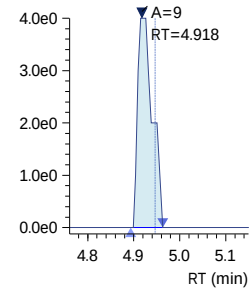
6_2-FTS-13C
Conc 4.3646
Q 428.90>409.00 (-) 1.19e5



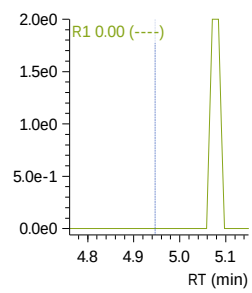
6_2-FTS-13C_IS
Conc 5.0000
ISTD 428.90>409.00 (-) 1.19e5



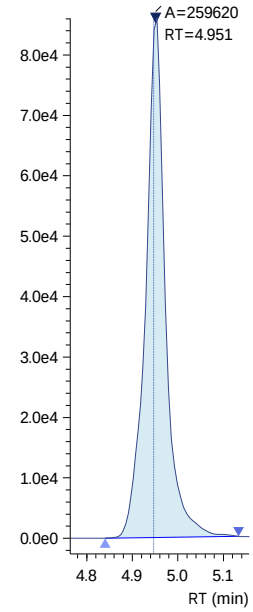
8_2-FTS_1
Conc 0.0001
R#1 0.00 (9.42)
Q 527.10>506.90 (-) 4.00e0



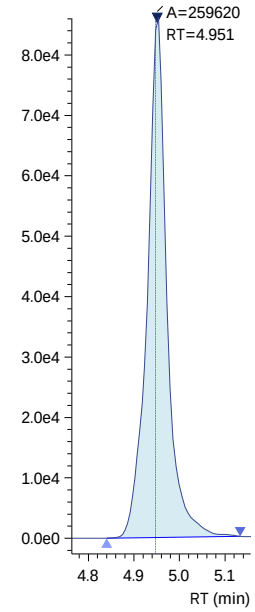
R1 527.20>487.00 (-) 2.00e0



8_2-FTS-13C
Conc 5.6504
Q 528.80>509.00 (-) 8.61e4

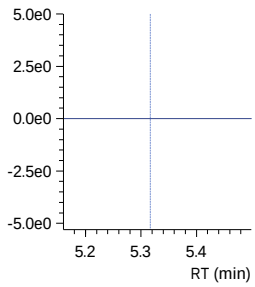


8_2-FTS-13C_IS
Conc 5.0000
ISTD 528.80>509.00 (-) 8.61e4

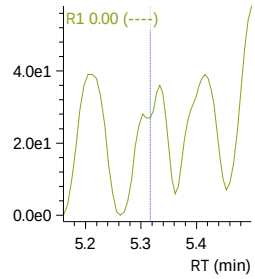


210823_008 (continued)

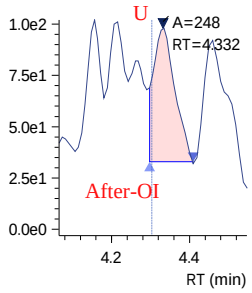
10_2-FtS_1
Conc ----
R#1 0.00 (49.86)
Q 627.00>606.95 (-) 0.00e0



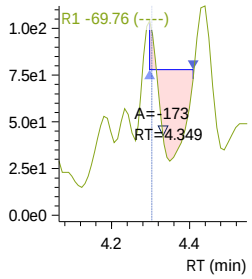
R1 627.00>81.25 (-) 5.80e1



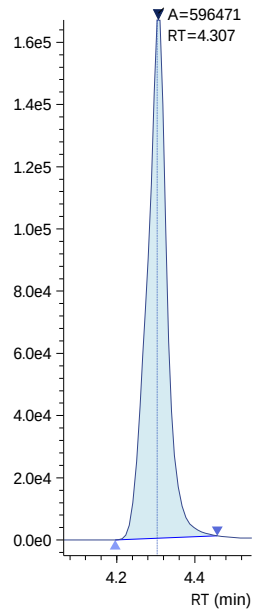
HPFO_DA
Conc 0.0023
R#1 -69.76 (101.52)
Q 329.00>169.00 (-) 1.02e2



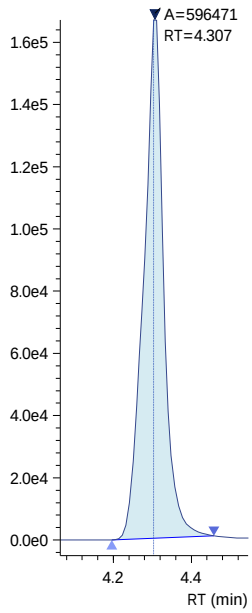
R1 329.00>285.10 (-) 1.12e2



HFPO_DA-13C
Conc 5.8055
Q 332.00>286.80 (-) 1.67e5



HFPO_DA-13C_IS
Conc 5.0000
ISTD 332.00>286.80 (-) 1.67e5

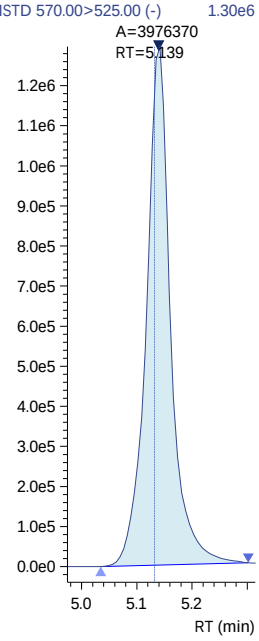


Insight Report
Before Manual Integration
Printed 8/27/2021 15:36:01

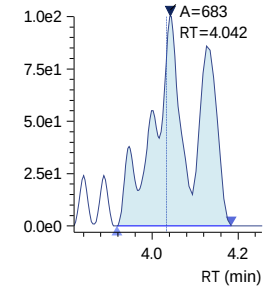
210823_008

Sample ID: CCB
Date Acquired: 8/23/2021 4:59:48 PM
Acquired by: System Administrator
Data File: 210823_008
Vial: 9 | Inj. Volume: 15.0000uL | Tray: 1

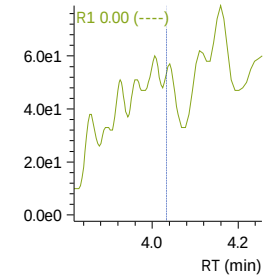
13C7-PFUnDA_IS
Conc 5.0000
ISTD 570.00>525.00 (-) 1.30e6



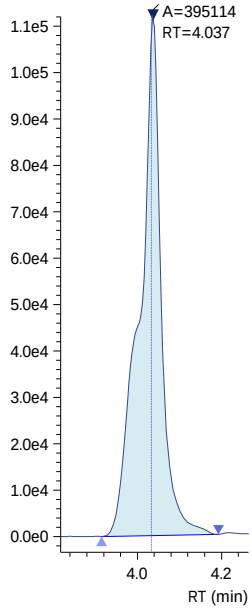
PFBS_1
Conc 0.0048
R#1 0.00 (47.76)
Q 299.00>80.00 (-) 1.00e2



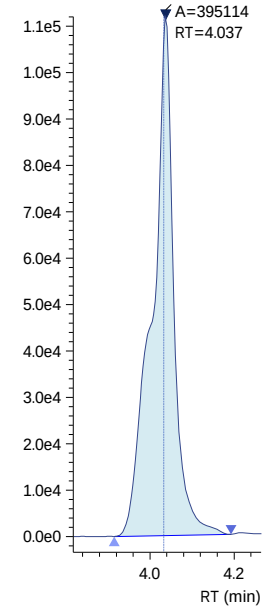
R1 298.80>99.00 (-) 7.90e1



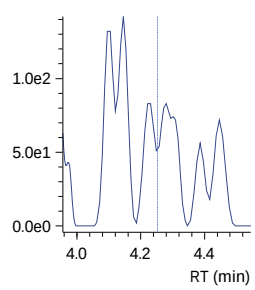
PFBS-13C
Conc 4.8132
Q 301.80>80.00 (-) 1.12e5



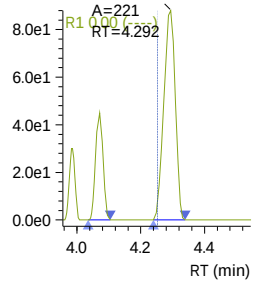
PFBS-13C_IS
Conc 5.0000
ISTD 301.80>80.00 (-) 1.12e5



PFPeS
Conc ----
R#1 0.00 (136.08)
Q 349.00>99.00 (-) 1.42e2

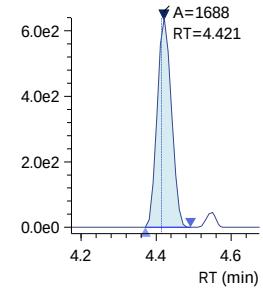


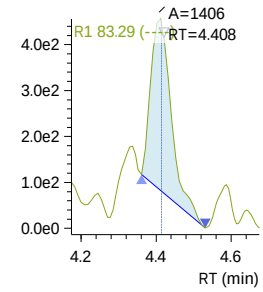
R1 349.00>79.95 (-) 8.80e1

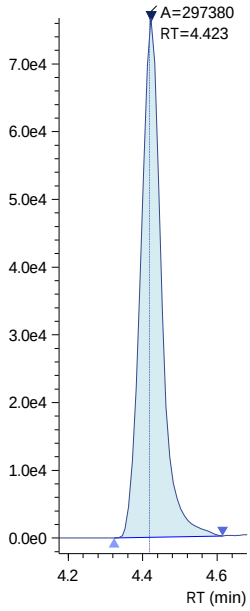


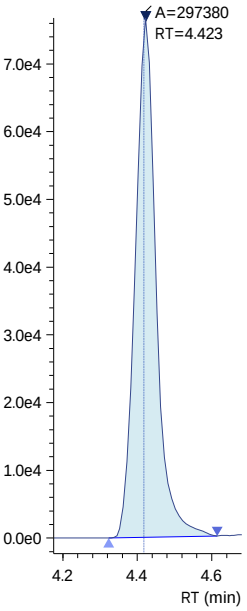
Insight Report
Before Manual Integration
Printed 8/27/2021 15:36:01

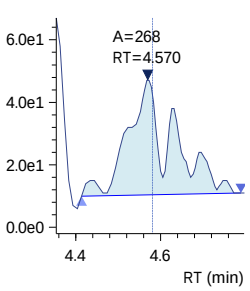
210823_008 (continued)

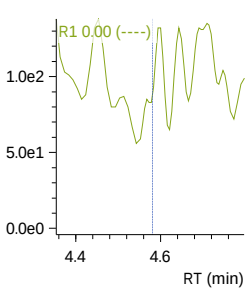
PFHxS_1
Conc -0.0044
R#1 83.29 (71.26)
Q 399.00>80.00 (-) 6.39e2


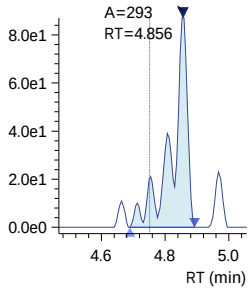
R1 399.00>99.00 (-) 4.56e2


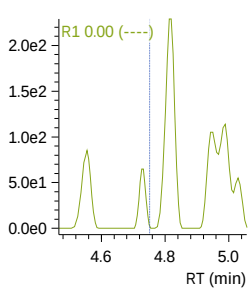
PFHxS-18O
Conc 5.3129
Q 402.70>84.05 (-) 7.68e4


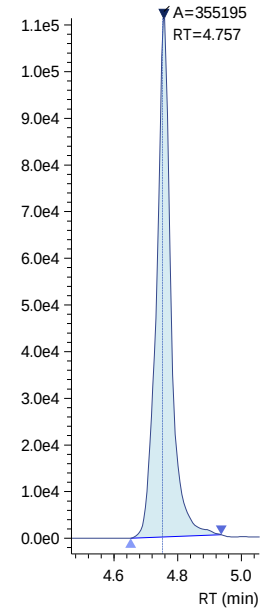
PFHxS-18O_IS
Conc 5.0000
ISTD 402.70>84.05 (-) 7.68e4


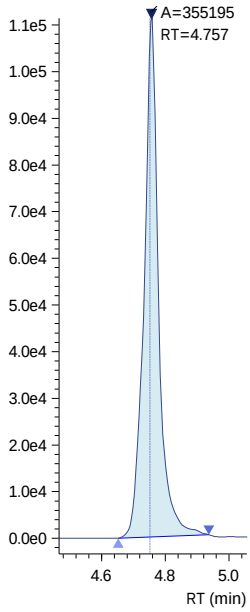
PFHpS_1
Conc 0.0021
R#1 0.00 (53.84)
Q 449.00>80.15 (-) 6.70e1


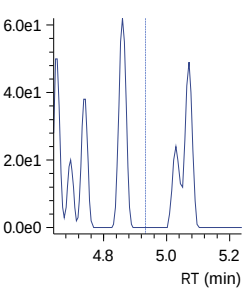
R1 449.00>99.20 (-) 1.38e2


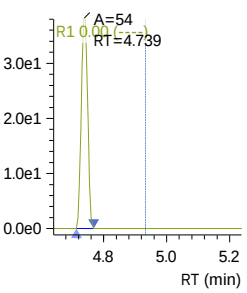
PFOS_1
Conc 0.0044
R#1 0.00 (86.72)
Q 499.00>80.00 (-) 8.70e1


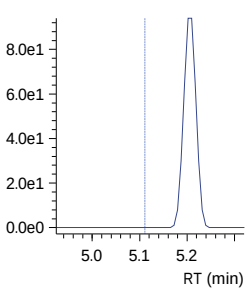
R1 499.00>99.00 (-) 2.29e2


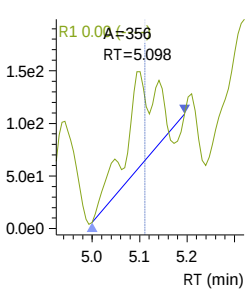
PFOS-13C
Conc 5.1059
Q 502.80>80.05 (-) 1.11e5


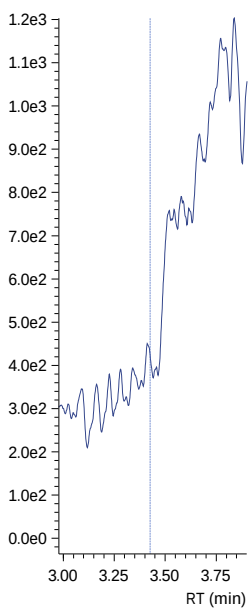
PFOS-13C_IS
Conc 5.0000
ISTD 502.80>80.05 (-) 1.11e5


PFNS
Conc ----
R#1 0.00 (129.18)
Q 549.00>99.00 (-) 6.20e1


R1 549.00>79.95 (-) 3.80e1


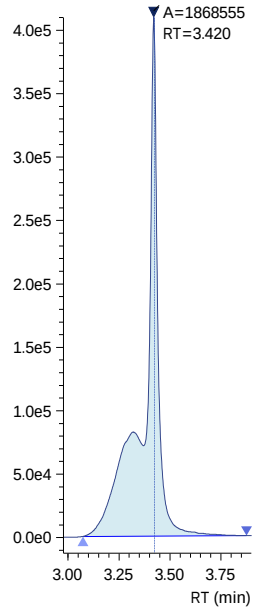
PFDS_1
Conc ----
R#1 0.00 (90.77)
Q 599.00>79.90 (-) 9.40e1


R1 599.00>99.10 (-) 1.99e2


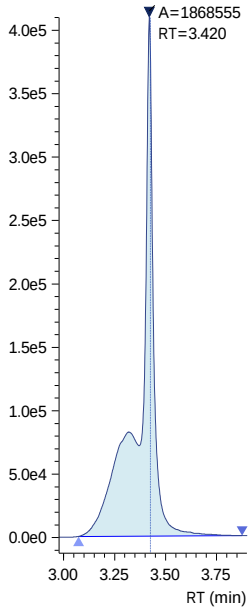
PFBA
Conc ----
Q 213.00>169.10 (-) 1.20e3


210823_008 (continued)

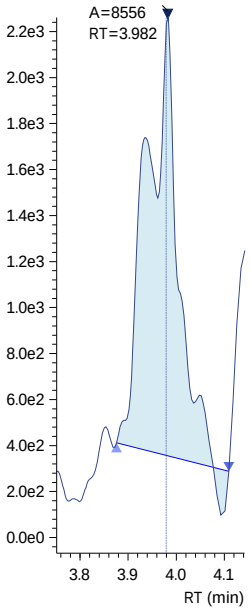
PFBA-13C
Conc 5.7535
Q 216.90>172.15 (-) 4.10e5



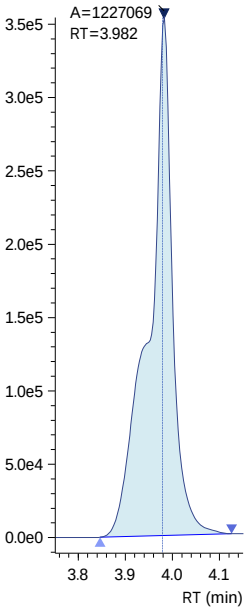
PFBA-13C_IS
Conc 5.0000
ISTD 216.90>172.15 (-) 4.10e5



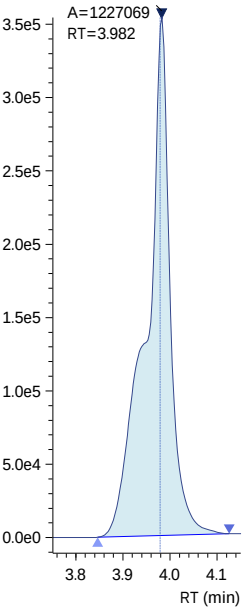
PFPeA
Conc 0.0110
Q 263.05>219.10 (-) 2.26e3



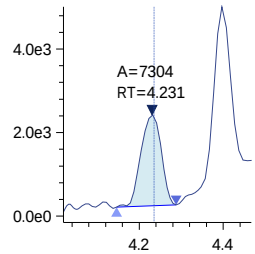
PFPeA-13C
Conc 5.7332
Q 267.90>223.00 (-) 3.55e5



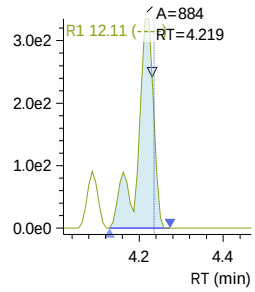
PFPeA-13C_IS
Conc 5.0000
ISTD 267.90>223.00 (-) 3.55e5



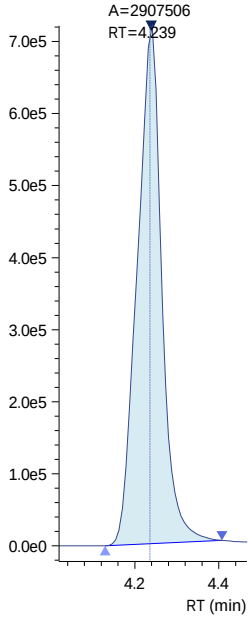
PFHxA
Conc 0.0093
R#1 12.11 (4.17)
Q 313.00>269.00 (-) 5.01e3



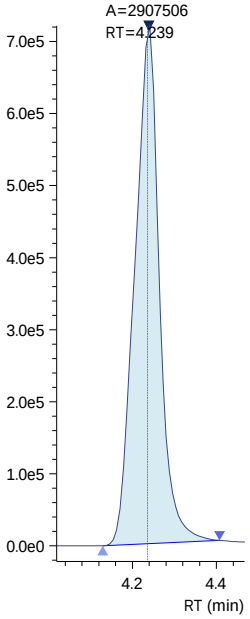
R1 313.00>119.10 (-) 3.35e2



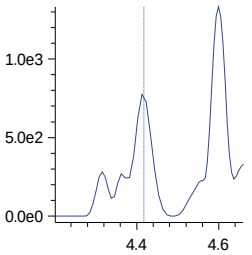
PFHxA-13C
Conc 4.9339
Q 314.90>270.10 (-) 7.22e5



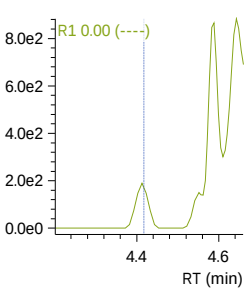
PFHxA-13C_IS
Conc 5.0000
ISTD 314.90>270.10 (-) 7.22e5



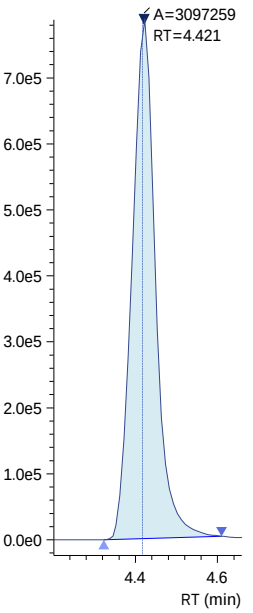
PFHpA
Conc ----
R#1 0.00 (26.04)
Q 362.90>319.00 (-) 1.33e3



R1 362.90>169.00 (-) 8.83e2

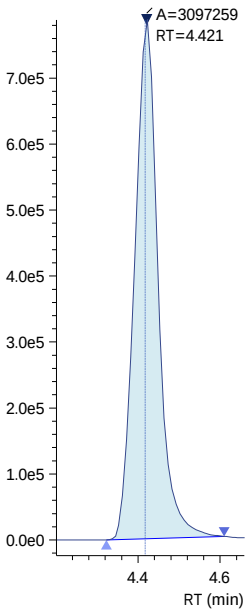


PFHpA-13C
Conc 5.1767
Q 366.90>322.10 (-) 7.88e5

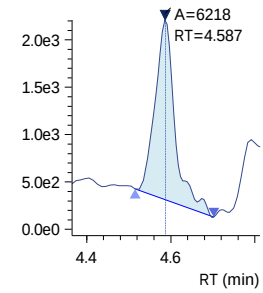


210823_008 (continued)

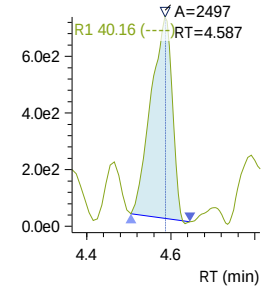
PFHpA-13C_IS
Conc 5.0000
ISTD 366.90>322.10 (-) 7.88e5



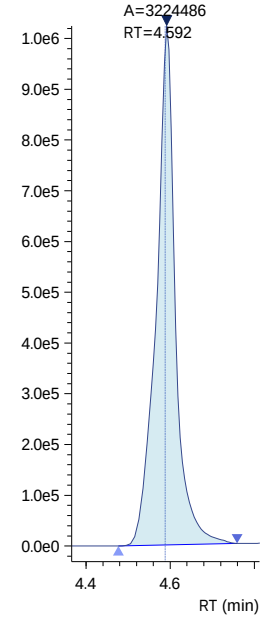
PFOA
Conc 0.0063
R#1 40.16 (30.35)
Q 413.00>369.00 (-) 2.21e3



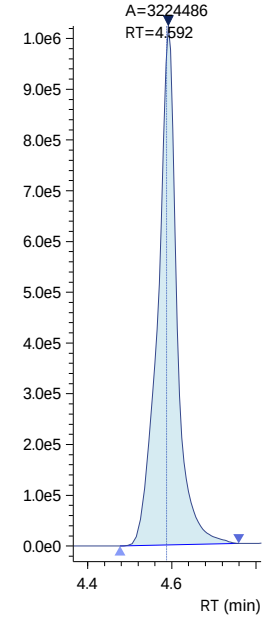
R1 413.00>169.10 (-) 7.39e2



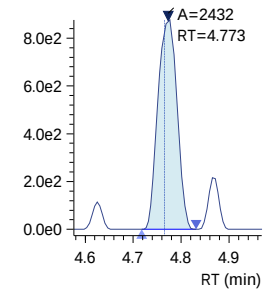
PFOA-13C
Conc 4.8411
Q 416.80>372.05 (-) 1.02e6



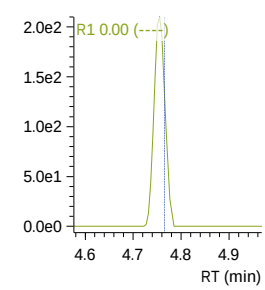
PFOA-13C_IS
Conc 5.0000
ISTD 416.80>372.05 (-) 1.02e6



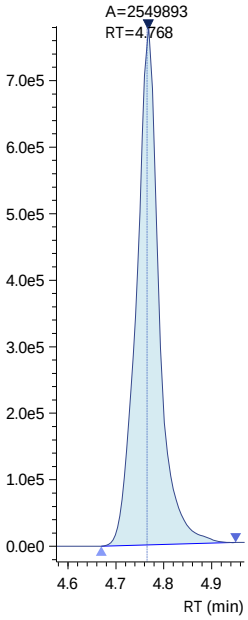
PFNA
Conc 0.0039
R#1 0.00 (22.35)
Q 463.00>418.90 (-) 8.76e2



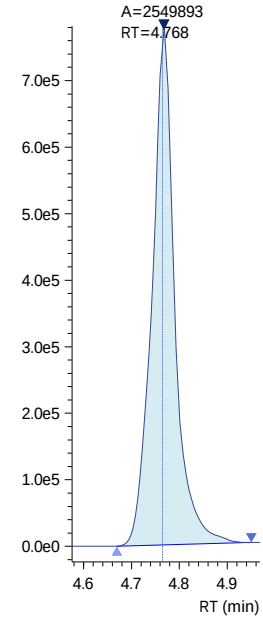
R1 463.00>219.00 (-) 2.10e2



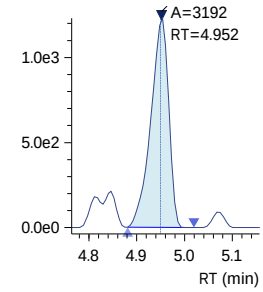
PFNA-13C
Conc 5.0187
Q 467.80>423.00 (-) 7.82e5



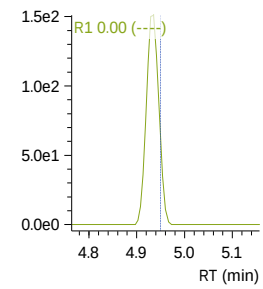
PFNA-13C_IS
Conc 5.0000
ISTD 467.80>423.00 (-) 7.82e5



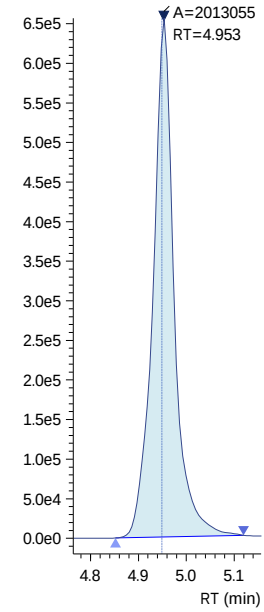
PFDA
Conc 0.0053
R#1 0.00 (18.73)
Q 513.00>468.80 (-) 1.23e3



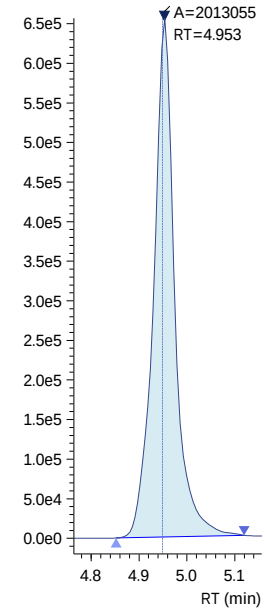
R1 513.00>219.10 (-) 1.51e2



PFDA-13C
Conc 5.3605
Q 514.80>469.95 (-) 6.57e5

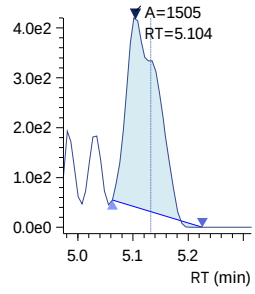


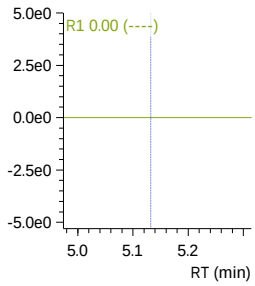
PFDA-13C_IS
Conc 5.0000
ISTD 514.80>469.95 (-) 6.57e5

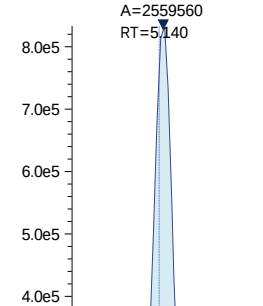


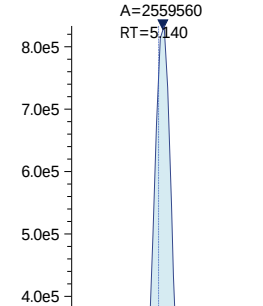
Insight Report
Before Manual Integration
Printed 8/27/2021 15:36:01

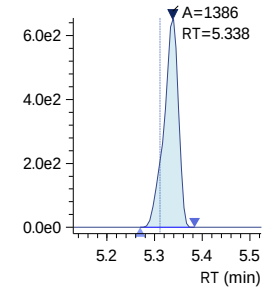
210823_008 (continued)

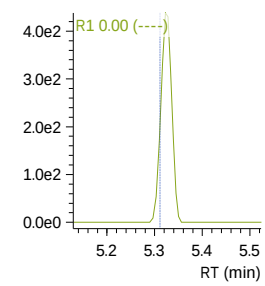
PFUnA
Conc 0.0025
R#1 0.00 (11.60)
Q 563.00>518.90 (-) 4.20e2


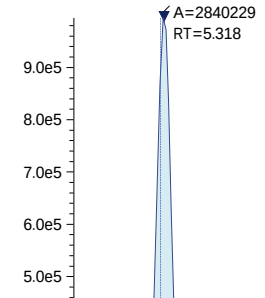
R1 563.00>219.00 (-) 0.00e0


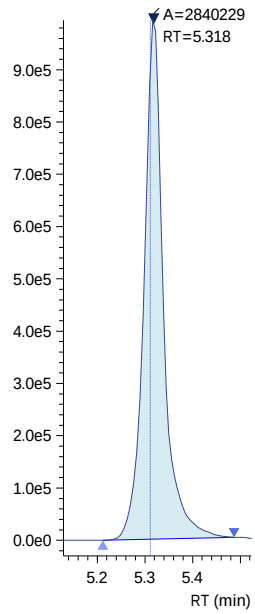
PFUnA-13C
Conc 5.1155
Q 564.80>519.95 (-) 8.33e5


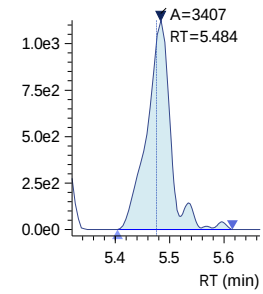
PFUnA-13C_IS
Conc 5.0000
ISTD 564.80>519.95 (-) 8.33e5


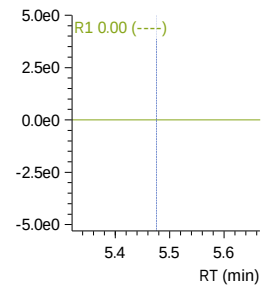
PFDoA
Conc 0.0025
R#1 0.00 (15.11)
Q 613.05>569.00 (-) 6.55e2


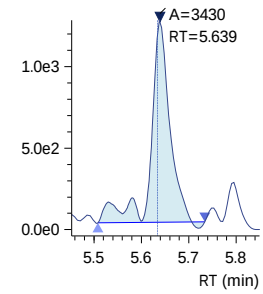
R1 613.05>169.00 (-) 4.38e2


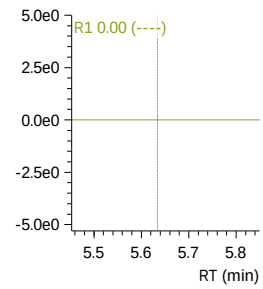
PFDoA-13C
Conc 5.1821
Q 614.80>569.95 (-) 9.95e5


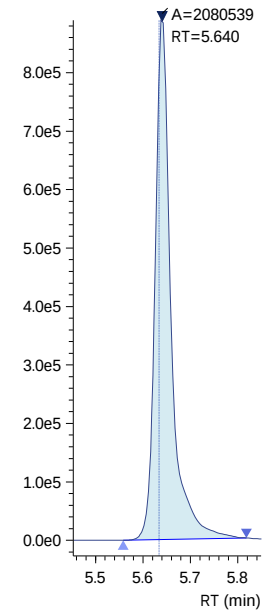
PFDoA-13C_IS
Conc 5.0000
ISTD 614.80>569.95 (-) 9.95e5


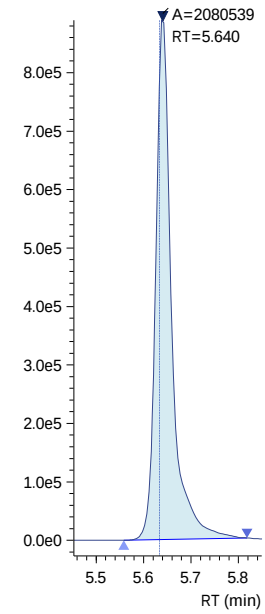
PFTrDA
Conc 0.0055
R#1 0.00 (14.19)
Q 663.00>618.90 (-) 1.13e3


R1 662.90>169.00 (-) 0.00e0


PFTeDA
Conc 0.0073
R#1 0.00 (14.98)
Q 713.00>669.00 (-) 1.29e3


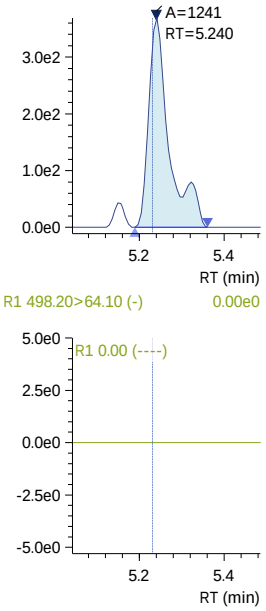
R1 713.00>169.10 (-) 0.00e0


PFTeDA-13C
Conc 5.6093
Q 714.70>669.90 (-) 8.90e5


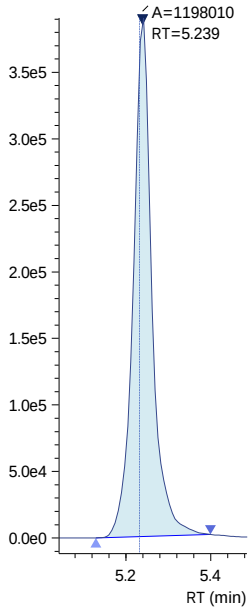
PFTeDA-13C_IS
Conc 5.0000
ISTD 714.70>669.90 (-) 8.90e5


210823_008 (continued)

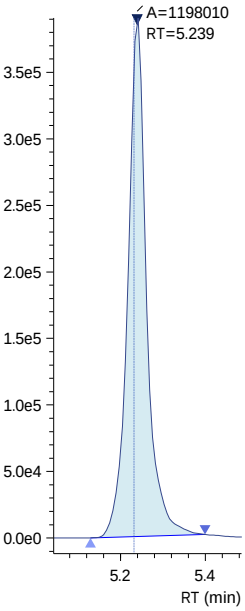
FOSA
Conc 0.0041
R#1 0.00 (4.89)
Q 498.20>78.00 (-) 3.69e2
R1 498.20>64.10 (-) 0.00e0



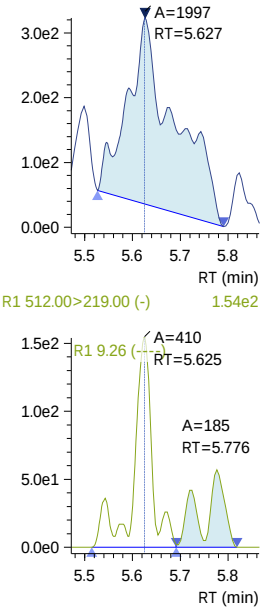
FOSA-13C
Conc 5.0719
Q 506.00>78.05 (-) 3.91e5



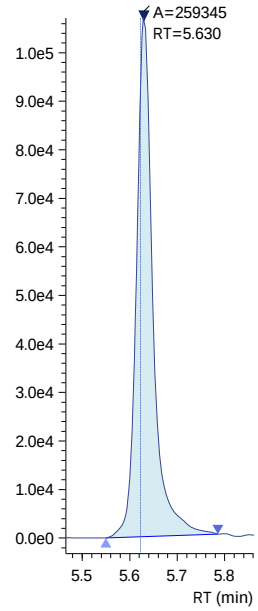
FOSA-13C_IS
Conc 5.0000
ISTD 506.00>78.05 (-) 3.91e5



N-MeFOSA
Conc 0.0206
R#1 9.26 (62.72)
Q 512.00>169.10 (-) 3.23e2
R1 512.00>219.00 (-) 1.54e2



N-MeFOSA-d3
Conc 4.7221
Q 514.90>168.90 (-) 1.07e5



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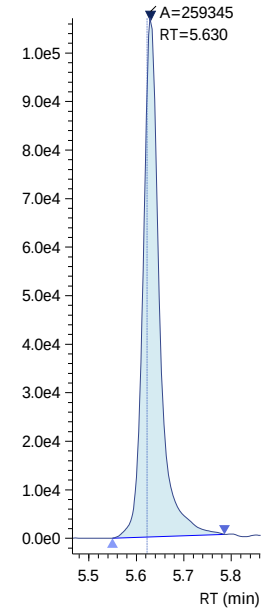
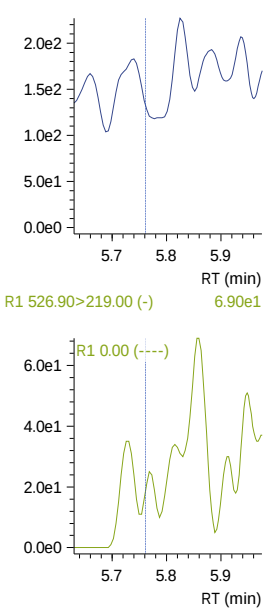
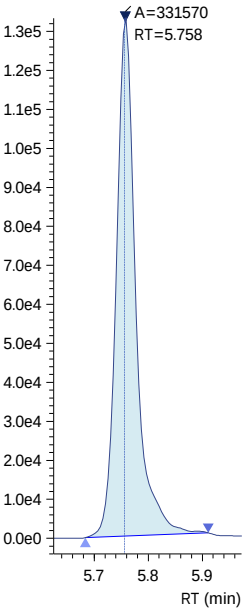
Conc 5.0000
ISTD 514.90>168.90 (-) 1.07e5



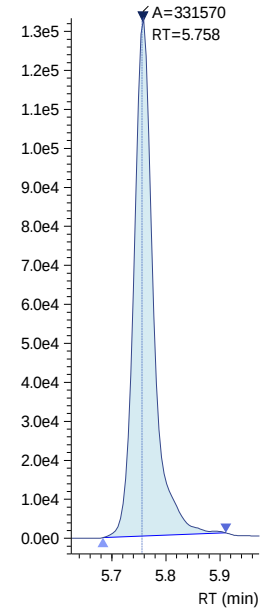
N-EtFOSA
Conc ----
R#1 0.00 (63.35)
Q 526.90>169.10 (-) 2.27e2
R1 526.90>219.00 (-) 6.90e1



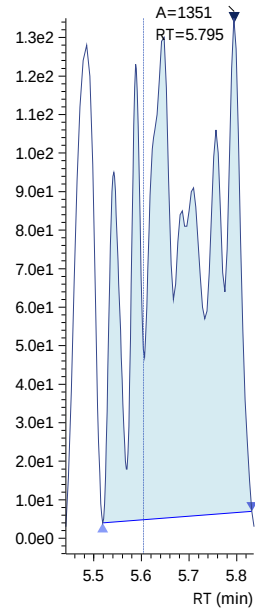
N-EtFOSA-d9
Conc 5.3134
Q 530.90>169.15 (-) 1.33e5



N-EtFOSA-d9_IS
Conc 5.0000
ISTD 530.90>169.15 (-) 1.33e5

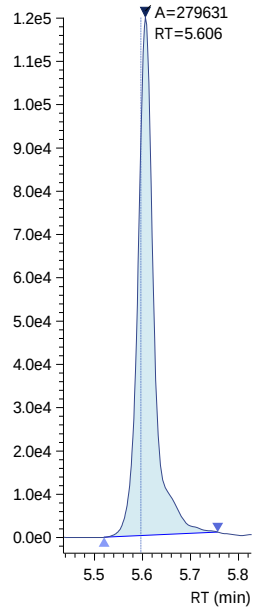


N-MeFOSE
Conc 0.0110
Q 616.00>59.00 (-) 1.35e2

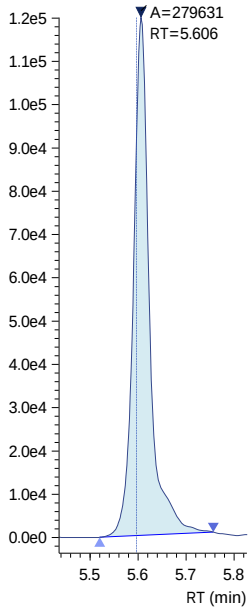


210823_008 (continued)

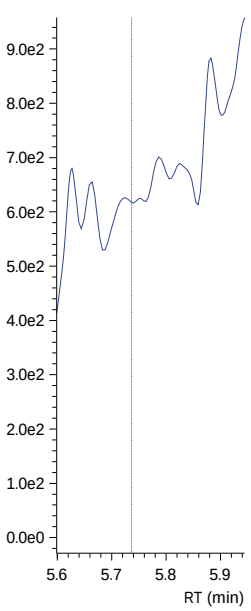
N-MeFOSE-d7
Conc 5.0914
Q 622.70>59.10 (-) 1.20e5



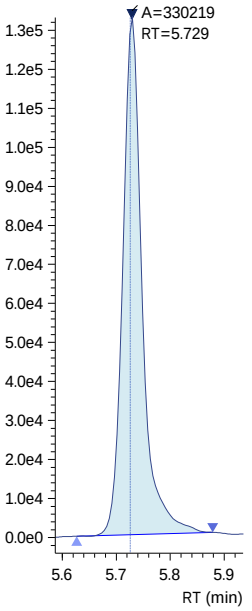
N-MeFOSE-d7_IS
Conc 5.0000
ISTD 622.70>59.10 (-) 1.20e5



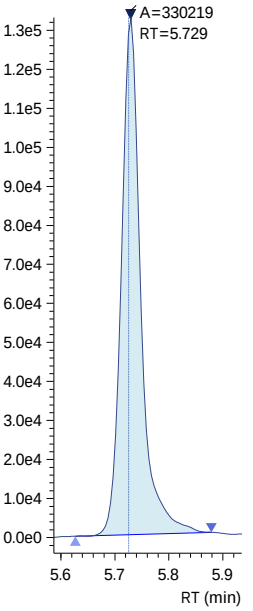
N-EtFOSE
Conc ----
Q 630.00>58.90 (-) 9.58e2



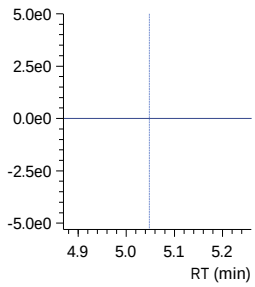
N-EtFOSE-d9
Conc 5.8074
Q 638.70>59.10 (-) 1.33e5



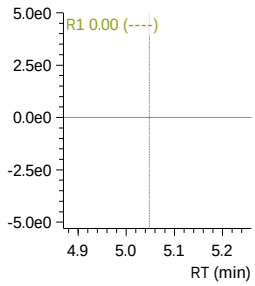
N-EtFOSE-d9_IS
Conc 5.0000
ISTD 638.70>59.10 (-) 1.33e5



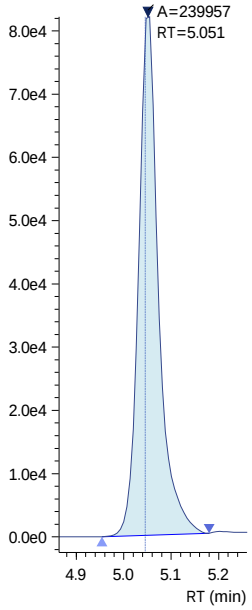
N-MeFOSAA
Conc ----
R#1 0.00 (35.26)
Q 570.20>419.00 (-) 0.00e0



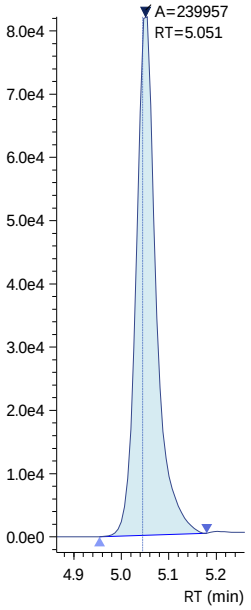
R1 570.20>512.00 (-) 0.00e0



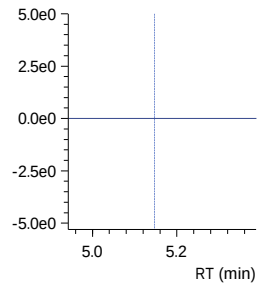
N-MeFOSAA-d3
Conc 5.3569
Q 572.80>419.05 (-) 8.22e4



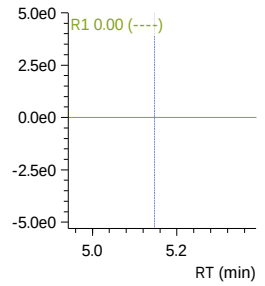
N-MeFOSAA-d3_IS
Conc 5.0000
ISTD 572.80>419.05 (-) 8.22e4



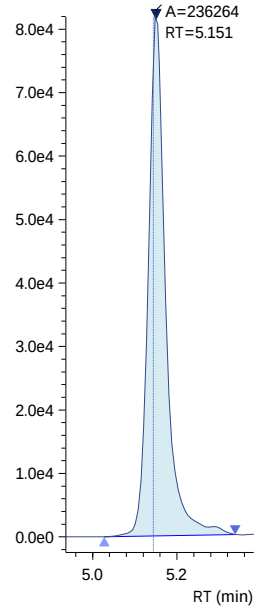
N-EtFOSAA
Conc ----
R#1 0.00 (77.25)
Q 584.20>418.95 (-) 0.00e0



R1 584.20>526.10 (-) 0.00e0



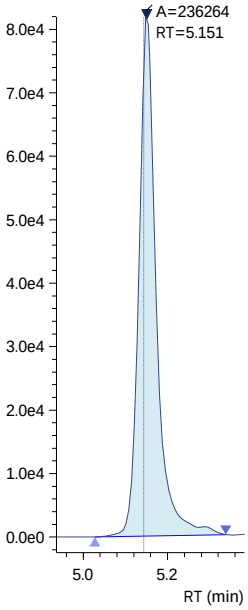
N-EtFOSAA-d5
Conc 5.6657
Q 588.80>419.00 (-) 8.20e4



210823_008 (continued)

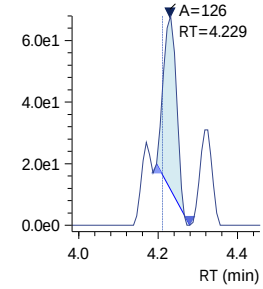
N-EtFOSAA-d5_IS
Conc 5.0000

ISTD 588.80>419.00 (-) 8.20e4

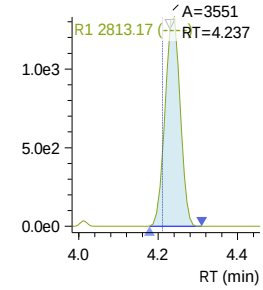


4_2-FTS_1
Conc 0.0009
R#1 2813.17 (39.85)

Q 327.00>307.05 (-) 6.80e1

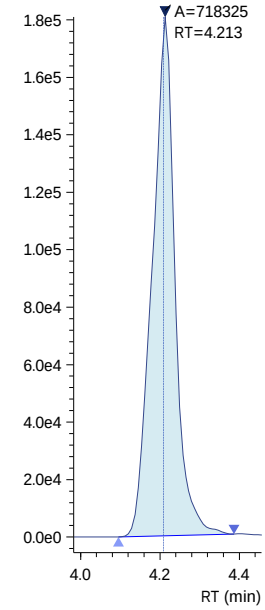


R1 327.00>81.10 (-) 1.33e3



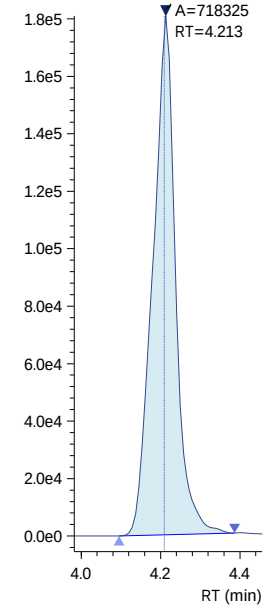
4_2-FTS-13C
Conc 7.8610

Q 328.80>309.05 (-) 1.81e5



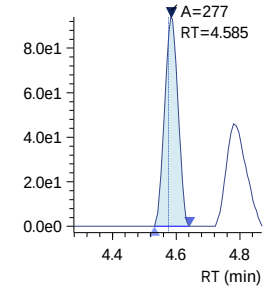
4_2-FTS-13C_IS
Conc 5.0000

ISTD 328.80>309.05 (-) 1.81e5

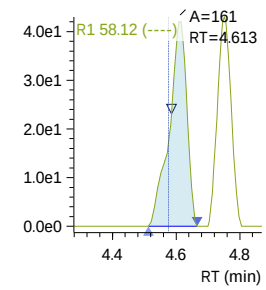


6_2-FTS_1
Conc 0.0026
R#1 58.12 (29.95)

Q 427.00>407.00 (-) 9.40e1

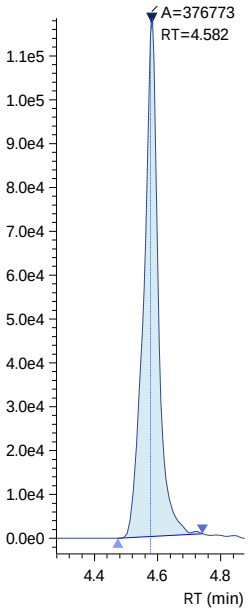


R1 427.00>80.90 (-) 4.30e1



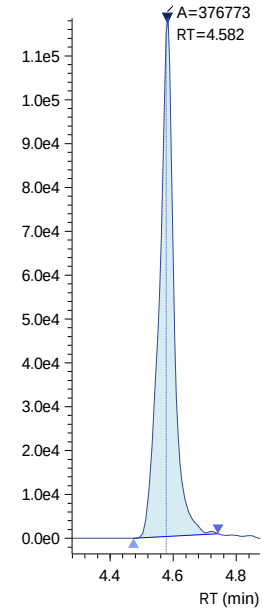
6_2-FTS-13C
Conc 4.3646

Q 428.90>409.00 (-) 1.19e5



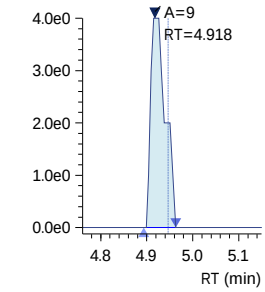
6_2-FTS-13C_IS
Conc 5.0000

ISTD 428.90>409.00 (-) 1.19e5

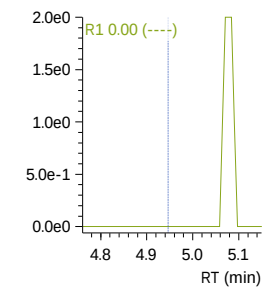


8_2-FTS_1
Conc 0.0001
R#1 0.00 (9.42)

Q 527.10>506.90 (-) 4.00e0

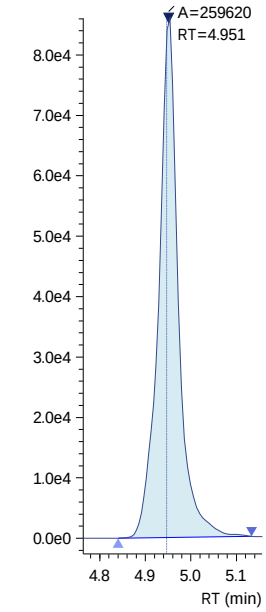


R1 527.20>487.00 (-) 2.00e0



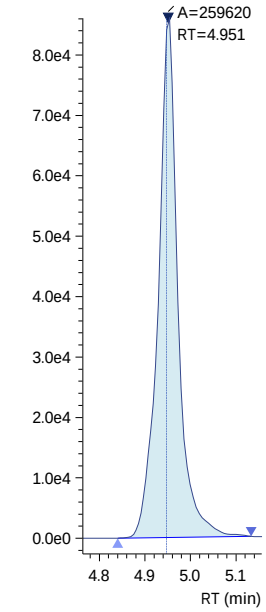
8_2-FTS-13C
Conc 5.6504

Q 528.80>509.00 (-) 8.61e4



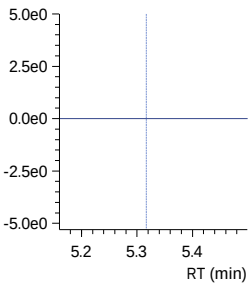
8_2-FTS-13C_IS
Conc 5.0000

ISTD 528.80>509.00 (-) 8.61e4

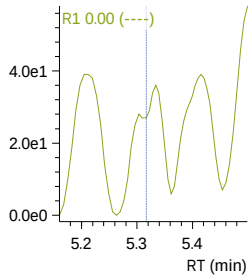


210823_008 (continued)

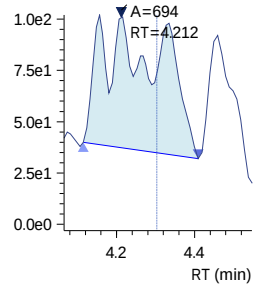
10_2-FtS_1
Conc ----
R#1 0.00 (49.86)
Q 627.00>606.95 (-) 0.00e0



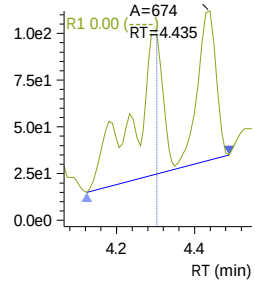
R1 627.00>81.25 (-) 5.80e1



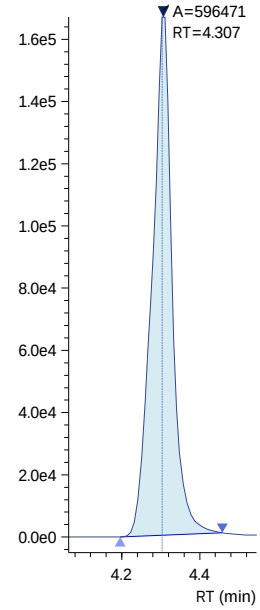
HPFO_DA
Conc 0.0064
R#1 0.00 (101.52)
Q 329.00>169.00 (-) 1.02e2



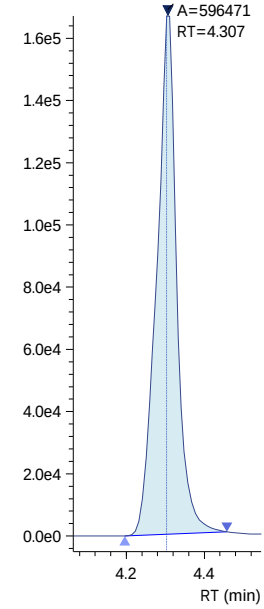
R1 329.00>285.10 (-) 1.12e2



HFPO_DA-13C
Conc 5.8055
Q 332.00>286.80 (-) 1.67e5



HFPO_DA-13C_IS
Conc 5.0000
ISTD 332.00>286.80 (-) 1.67e5



1st UA 09/15/21
2nd ~~JA~~ 09/16/21

Validation Report

Data File: J:\LCMS06\Data\210914_B1\210914_016
Lab ID: KQ2117883-02
RunType: CCB
Matrix: Soil

Date Acquired: 9/14/21 13:42
Batch ID: 738712
Analysis Method: PFC/537M/PFAS

Validations

Validation Categories	Pass	Fail
ICAL Analyte Recovery	X	
Second Source ICAL Verification	X	
Continuing Calibration Recovery		X
Internal Standards	X	
Surrogates		X
Above Highest ICAL Level	X	

Analyte Exceptions

Exception Categories	Analyte Name	Result	Low Limit	High Limit	Corrective Action
Continuing Calibration Recovery	13C2-6:2 FTS	136	70	130	native in control
	13C2-8:2 FTS	148	70	130	native in control
Surrogates	13C2-6:2 FTS	142	30	140	< MRL

Primary Review: _____

Printed: 9/14/21 19:07
\\alprews001\starlims$\LIMSReps\QuantValidation.rpt

Secondary Review: _____

1st UA 09/15/21
2nd 09/16/21

Quantitation Report

Data File:	J:\LCMS06\Data\210914_B1\210914_016	**Instrument:**	K-LCMS-06
Acqu Date:	9/14/21 13:42	**Vial:**	2
Run Type:	CCB	**Dilution:**	1
Lab ID:	KQ2117883-02	**Raw Units:**	ng/mL

Bottle ID:		**Tier:**	IV	**Matrix:**	Soil
Prod Code:	PFAS	**Collect Date:**	8/5/21	**Receive Date:**	8/6/21

Analysis Lot:	738712	**Prep Lot:**		**Report Group:**	KQ2117883
Analysis	PFC/537M	**Prep Method:**			
		Prep Date:			

Title:	Per- and Polyfluoroalkyl Substances (PFAS) by LC/MS/MS	**Calibration ID:**	KC2100481
		Report List ID:	20091

Internal Standard Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	Area Criteria
13C7-PFUnDA	5.120	0.00	4652243	5.0000	OK

Surrogate Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	% Rec		% Rec Criteria	Rpt?
13C3-PFBS	4.024	0.00	469396	4.6406	93		33 - 109	Y
18O2-PFHxS	4.406	-0.01	415436	5.7583	115		36 - 120	Y
13C4-PFOS	4.742	0.00	522127	5.2959	106		32 - 130	Y
13C4-PFBA	3.395	-0.01	1721571	4.7441	95		34 - 116	Y
13C5-PFPeA	3.970	0.00	1018959	4.9132	98		39 - 133	Y
13C2-PFHxA	4.226	0.00	3074713	5.2248	104		32 - 136	Y
13C4-PFHpA	4.407	0.00	2875825	5.3886	108		36 - 133	Y
13C4-PFOA	4.579	0.00	3632792	5.0916	102		31 - 134	Y
13C5-PFNA	4.754	0.00	3234428	5.2617	105		27 - 133	Y
13C2-PFDA	4.941	0.00	2449332	5.7310	115		30 - 137	Y
13C2-PFUnDA	5.121	0.00	3260794	5.0601	101		32 - 146	Y
13C2-PFDoDA	5.289	0.00	3471642	4.8842	98		36 - 136	Y
13C2-PFTeDA	5.592	0.00	3142489	4.4063	88		39 - 138	Y
13C8-FOSA	5.224	0.00	1501245	5.0734	101		40 - 132	Y
D3-MeFOSA	5.597	0.00	289180	4.3555	87		51 - 132	Y
D5-EtFOSA	5.717	0.00	366453	4.7377	95		49 - 123	Y
D7-MeFOSE	5.574		398328	3.8961	78		53 - 125	Y
D9-EtFOSE	5.691	0.00	448215	4.6295	93		45 - 121	Y
D3-MeFOSAA	5.038	0.00	435994	3.7120	74		20 - 154	Y
D5-EtFOSAA	5.132	0.00	368299	3.7082	74		29 - 153	Y
13C2-4:2 FTS	4.199	-0.01	627060	5.6963	114		18 - 127	Y
13C2-6:2 FTS	4.570	0.00	659221	7.0879	142	*	30 - 140	Y
13C2-8:2 FTS	4.939	0.00	512001	7.5727	151		9 - 171	Y
13C3-HFPO-DA	4.293	0.00	568109	5.6988	114		33 - 130	Y

1st UA 09/15/21
2nd 09/16/21

Data File:	J:\LCMS06\Data\210914_B1\210914_016	**Instrument:**	K-LCMS-06
Acqu Date:	9/14/21 13:42	**Vial:**	2
Run Type:	CCB	**Dilution:**	1
Lab ID:	KQ2117883-02	**Raw Units:**	ng/mL

Target Compounds

Final Conc.Units: ng/g

Parameter Name	RT	RT Dev	Response	Solution Conc	Final Conc	Q	Rpt?
Perfluorobutane sulfonic acid (PFBS)	4.021	-0.01	175	0.0011	0.0088	U	Y
Perfluoropentane sulfonic acid (PFPeS)	0		0	0	0	U	Y
Perfluorohexane sulfonic acid (PFHxS)	4.410	+0.00	2411	-0.0033	0	U	Y
Perfluoroheptane sulfonic acid (PFHpS)	4.531	-0.04	248	0.0017	0.014	U	Y
Perfluorooctane sulfonic acid (PFOS)	4.740	0.00	728	0.0075	0.060	U	Y
Perfluorononane sulfonic acid (PFNS)	0		0	0	0	U	Y
Perfluorodecane sulfonic acid (PFDS)	0		0	0	0	U	Y
Perfluorobutanoic acid (PFBA)	0		0	0	0	U	Y
Perfluoropentanoic acid (PFPeA)	3.971	0.00	20118	-0.0023	0	U	Y
Perfluorohexanoic acid (PFHxA)	4.217	-0.01	9499	0.0118	0.094	U	Y
Perfluoroheptanoic acid (PFHpA)	4.402	-0.01	3259	0.0047	0.038	U	Y
Perfluorooctanoic acid (PFOA)	4.580	0.00	6811	0.0068	0.054	U	Y
Perfluorononanoic acid (PFNA)	0		0	0	0	U	Y
Perfluorodecanoic acid (PFDA)	4.945	+0.00	2377	0.0034	0.027	U	Y
Perfluoroundecanoic acid (PFUnDA)	5.112	-0.01	1342	0.0019	0.015	U	Y
Perfluorododecanoic acid (PFDoDA)	5.288	0.00	2820	0.0046	0.037	U	Y
Perfluorotridecanoic acid (PFTrDA)	5.455	+0.01	501	0.0008	0.0064	U	Y
Perfluorotetradecanoic acid (PFTeDA)	5.592	0.00	5295	0.0076	0.061	U	Y
Perfluorooctane sulfonamide (FOSA)	5.217	-0.01	1279	0.0036	0.029	U	Y
N-Methyl perfluorooctane sulfonamide (MeFOSA)	5.596	0.00	689	0.0063	0.050	U	Y
N-Ethyl perfluorooctane sulfonamide (EtFOSA)	0		0	0	0	U	Y
N-Methyl perfluorooctane sulfonamidoethanol	5.564	-0.02	232	0.0016	0.013	U	Y
N-Ethyl perfluorooctane sulfonamidoethanol	0		0	0	0	U	Y
N-Methyl perfluorooctane sulfonamidoacetic acid	0		0	0	0	U	Y
N-Ethyl perfluorooctane sulfonamidoacetic acid	0		0	0	0	U	Y
4:2 Fluorotelomer sulfonic acid (4:2 FTS)	4.207	+0.00	202	0.0018	0.014	U	Y
6:2 Fluorotelomer sulfonic acid (6:2 FTS)	4.570		823	0.0048	0.038	U	Y
8:2 Fluorotelomer sulfonic acid (8:2 FTS)	4.944	+0.00	83	0.0008	0.0064	U	Y
10:2 Fluorotelomer sulfonic acid (10:2 FTS)	5.289	-0.01	15	0.0002	0.0016	U	Y
Hexafluoropropylene oxide dimer acid (HFPO-DA)	0		0	0	0	U	Y

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Insight Report
Quantitation/Integration
Printed 9/14/2021 18:48:54

210914_016

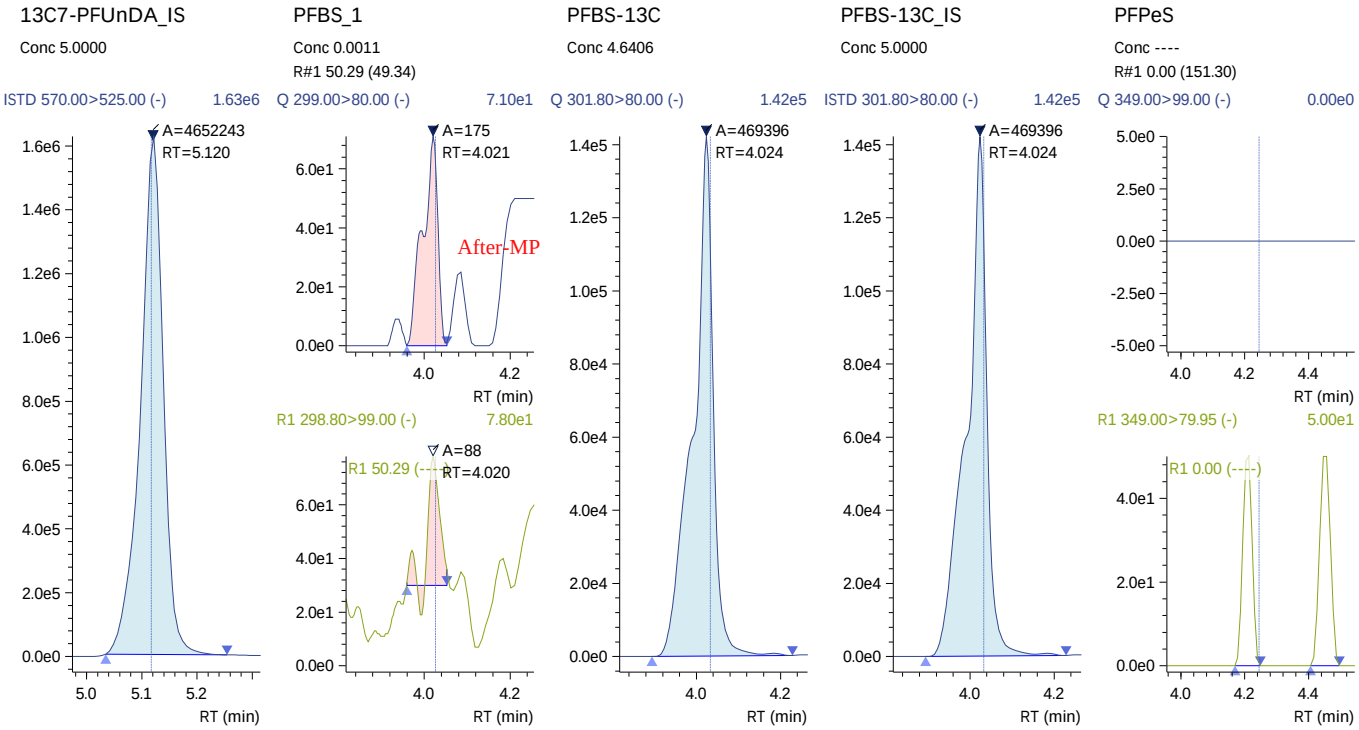
Sample ID: CCB
Date Acquired: 9/14/2021 1:42:06 PM
Acquired by: System Administrator
Data File: 210914_016
Vial: 9 | Inj. Volume: 15.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	ISTD Name	Std. Conc.	Conc.	Unit
13C7-PFUnDA_IS	Auto	5.120	4652243	4652243	----	----	5.0000	ng/mL
PFBS_1	M	4.021	175	469396	PFBS-13C_IS	----	0.0011	ng/mL
PFBS-13C	Auto	4.024	469396	4652243	13C7-PFUnDA_IS	----	4.6406	ng/mL
PFBS-13C_IS	Auto	4.024	469396	469396	----	----	5.0000	ng/mL
PFPeS	ND(W/B)	----	----	469396	PFBS-13C_IS	----	----	ng/mL
PFHxS_1	Auto	4.410	2411	415436	PFHxS-18O_IS	----	-0.0033	ng/mL
PFHxS-18O	Auto	4.406	415436	4652243	13C7-PFUnDA_IS	----	5.7583	ng/mL
PFHxS-18O_IS	Auto	4.406	415436	415436	----	----	5.0000	ng/mL
PFHpS_1	M	4.531	248	415436	PFHxS-18O_IS	----	0.0017	ng/mL
PFOS_1	Auto	4.740	728	522127	PFOS-13C_IS	----	0.0075	ng/mL
PFOS-13C	Auto	4.742	522127	4652243	13C7-PFUnDA_IS	----	5.2959	ng/mL
PFOS-13C_IS	Auto	4.742	522127	522127	----	----	5.0000	ng/mL
PFNS	ND(W/B)	----	----	522127	PFOS-13C_IS	----	----	ng/mL
PFDS_1	ND(W/B)	----	----	522127	PFOS-13C_IS	----	----	ng/mL
PFBA	ND(W/B)	----	----	1721571	PFBA-13C_IS	----	----	ng/mL
PFBA-13C	Auto	3.395	1721571	4652243	13C7-PFUnDA_IS	----	4.7441	ng/mL
PFBA-13C_IS	Auto	3.395	1721571	1721571	----	----	5.0000	ng/mL
PFPeA	M	3.971	20118	1018959	PFPeA-13C_IS	----	-0.0023	ng/mL
PFPeA-13C	Auto	3.970	1018959	4652243	13C7-PFUnDA_IS	----	4.9132	ng/mL
PFPeA-13C_IS	Auto	3.970	1018959	1018959	----	----	5.0000	ng/mL
PFHxA	Auto	4.217	9499	3074713	PFHxA-13C_IS	----	0.0118	ng/mL
PFHxA-13C	Auto	4.226	3074713	4652243	13C7-PFUnDA_IS	----	5.2248	ng/mL
PFHxA-13C_IS	Auto	4.226	3074713	3074713	----	----	5.0000	ng/mL
PFHpA	M	4.402	3259	2875825	PFHpA-13C_IS	----	0.0047	ng/mL
PFHpA-13C	Auto	4.407	2875825	4652243	13C7-PFUnDA_IS	----	5.3886	ng/mL
PFHpA-13C_IS	Auto	4.407	2875825	2875825	----	----	5.0000	ng/mL
PFOA	Auto	4.580	6811	3632792	PFOA-13C_IS	----	0.0068	ng/mL
PFOA-13C	Auto	4.579	3632792	4652243	13C7-PFUnDA_IS	----	5.0916	ng/mL
PFOA-13C_IS	Auto	4.579	3632792	3632792	----	----	5.0000	ng/mL
PFNA	ND(W/B)	----	----	3234428	PFNA-13C_IS	----	----	ng/mL
PFNA-13C	Auto	4.754	3234428	4652243	13C7-PFUnDA_IS	----	5.2617	ng/mL
PFNA-13C_IS	Auto	4.754	3234428	3234428	----	----	5.0000	ng/mL
PFDA	M	4.945	2377	2449332	PFDA-13C_IS	----	0.0034	ng/mL
PFDA-13C	Auto	4.941	2449332	4652243	13C7-PFUnDA_IS	----	5.7310	ng/mL
PFDA-13C_IS	Auto	4.941	2449332	2449332	----	----	5.0000	ng/mL
PFUnA	M	5.112	1342	3260794	PFUnA-13C_IS	----	0.0019	ng/mL
PFUnA-13C	Auto	5.121	3260794	4652243	13C7-PFUnDA_IS	----	5.0601	ng/mL
PFUnA-13C_IS	Auto	5.121	3260794	3260794	----	----	5.0000	ng/mL
PFDoA	Auto	5.288	2820	3471642	PFDoA-13C_IS	----	0.0046	ng/mL
PFDoA-13C	Auto	5.289	3471642	4652243	13C7-PFUnDA_IS	----	4.8842	ng/mL
PFDoA-13C_IS	Auto	5.289	3471642	3471642	----	----	5.0000	ng/mL
PFTrDA	Auto	5.455	501	3142489	PFTeDA-13C_IS	----	0.0008	ng/mL
PFTeDA	M	5.592	5295	3142489	PFTeDA-13C_IS	----	0.0076	ng/mL
PFTeDA-13C	Auto	5.592	3142489	4652243	13C7-PFUnDA_IS	----	4.4063	ng/mL
PFTeDA-13C_IS	Auto	5.592	3142489	3142489	----	----	5.0000	ng/mL
FOSA	Auto	5.217	1279	1501245	FOSA-13C_IS	----	0.0036	ng/mL
FOSA-13C	Auto	5.224	1501245	4652243	13C7-PFUnDA_IS	----	5.0734	ng/mL
FOSA-13C_IS	Auto	5.224	1501245	1501245	----	----	5.0000	ng/mL
N-MeFOSA	M	5.596	689	289180	N-MeFOSA-d3_IS	----	0.0063	ng/mL
N-MeFOSA-d3	Auto	5.597	289180	4652243	13C7-PFUnDA_IS	----	4.3555	ng/mL
N-MeFOSA-d3_IS	Auto	5.597	289180	289180	----	----	5.0000	ng/mL
N-EtFOSA	ND(W/B)	----	----	376319	N-EtFOSA-d9_IS	----	----	ng/mL
N-EtFOSA-d9	Auto	5.717	366453	4652243	13C7-PFUnDA_IS	----	4.7377	ng/mL
N-EtFOSA-d9_IS	M	5.717	376319	376319	----	----	5.0000	ng/mL

210914_016 (continued)

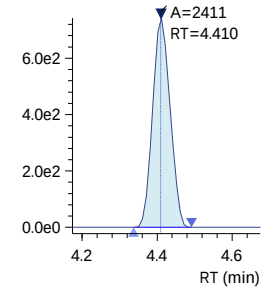
(Table continued from previous page)

Name	Mode ID	Found RT	Area	ISTD Area	ISTD Name	Std. Conc.	Conc.	Unit
N-MeFOSE	M	5.564	232	398328	N-MeFOSE-d7_IS	----	0.0016	ng/mL
N-MeFOSE-d7	Auto	5.574	398328	4652243	13C7-PFUnDA_IS	----	3.8961	ng/mL
N-MeFOSE-d7_IS	Auto	5.574	398328	398328	----	----	5.0000	ng/mL
N-EtFOSE	ND(W/B)	----	----	448215	N-EtFOSE-d9_IS	----	----	ng/mL
N-EtFOSE-d9	Auto	5.691	448215	4652243	13C7-PFUnDA_IS	----	4.6295	ng/mL
N-EtFOSE-d9_IS	Auto	5.691	448215	448215	----	----	5.0000	ng/mL
N-MeFOSAA	ND(W/B)	----	----	435994	N-MeFOSAA-d3_IS	----	----	ng/mL
N-MeFOSAA-d3	Auto	5.038	435994	4652243	13C7-PFUnDA_IS	----	3.7120	ng/mL
N-MeFOSAA-d3_IS	Auto	5.038	435994	435994	----	----	5.0000	ng/mL
N-EtFOSAA	ND(W/B)	----	----	368299	N-EtFOSAA-d5_IS	----	----	ng/mL
N-EtFOSAA-d5	Auto	5.132	368299	4652243	13C7-PFUnDA_IS	----	3.7082	ng/mL
N-EtFOSAA-d5_IS	Auto	5.132	368299	368299	----	----	5.0000	ng/mL
4_2-FTS_1	Auto	4.207	202	627060	4_2-FTS-13C_IS	----	0.0018	ng/mL
4_2-FTS-13C	Auto	4.199	627060	4652243	13C7-PFUnDA_IS	----	5.6963	ng/mL
4_2-FTS-13C_IS	Auto	4.199	627060	627060	----	----	5.0000	ng/mL
6_2-FTS_1	Auto	4.570	823	659221	6_2-FTS-13C_IS	----	0.0048	ng/mL
6_2-FTS-13C	Auto	4.570	659221	4652243	13C7-PFUnDA_IS	----	7.0879	ng/mL
6_2-FTS-13C_IS	Auto	4.570	659221	659221	----	----	5.0000	ng/mL
8_2-FTS_1	Auto	4.944	83	512001	8_2-FTS-13C_IS	----	0.0008	ng/mL
8_2-FTS-13C	Auto	4.939	512001	4652243	13C7-PFUnDA_IS	----	7.5727	ng/mL
8_2-FTS-13C_IS	Auto	4.939	512001	512001	----	----	5.0000	ng/mL
10_2-FtS_1	Auto	5.289	15	512001	8_2-FTS-13C_IS	----	0.0002	ng/mL
HPFO_DA	ND(W/B)	----	----	568109	HFPO_DA-13C_IS	----	----	ng/mL
HFPO_DA-13C	Auto	4.293	568109	4652243	13C7-PFUnDA_IS	----	5.6988	ng/mL
HFPO_DA-13C_IS	Auto	4.293	568109	568109	----	----	5.0000	ng/mL

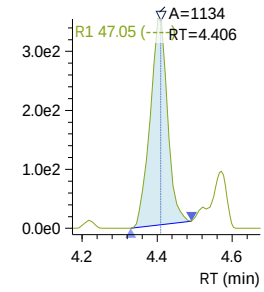


210914_016 (continued)

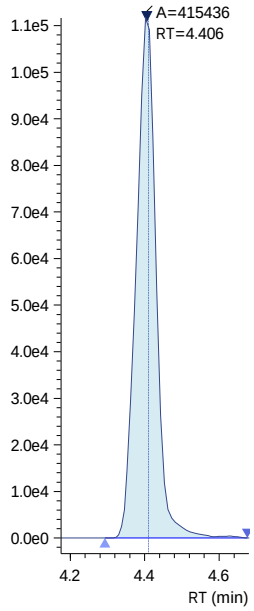
PFHxS_1
Conc -0.0033
R#1 47.05 (62.92)
Q 399.00>80.00 (-) 7.43e2



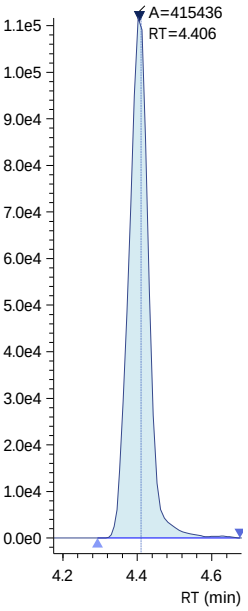
R1 399.00>99.00 (-) 3.55e2



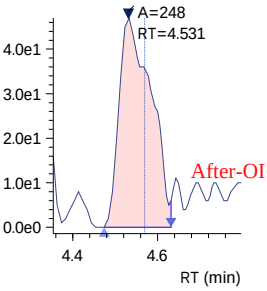
PFHxS-18O
Conc 5.7583
Q 402.70>84.05 (-) 1.12e5



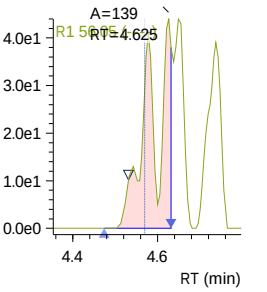
PFHxS-18O_IS
Conc 5.0000
ISTD 402.70>84.05 (-) 1.12e5



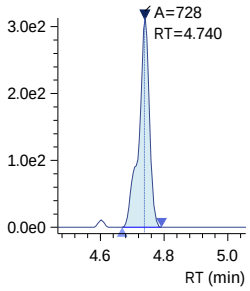
PFHpS_1
Conc 0.0017
R#1 56.05 (40.53)
Q 449.00>80.15 (-) 4.70e1



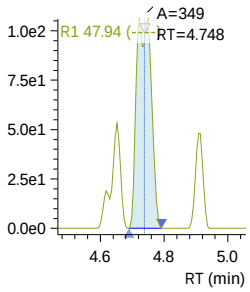
R1 449.00>99.20 (-) 4.40e1



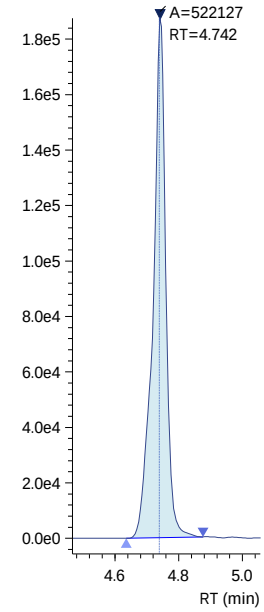
PFOS_1
Conc 0.0075
R#1 47.94 (73.81)
Q 499.00>80.00 (-) 3.13e2



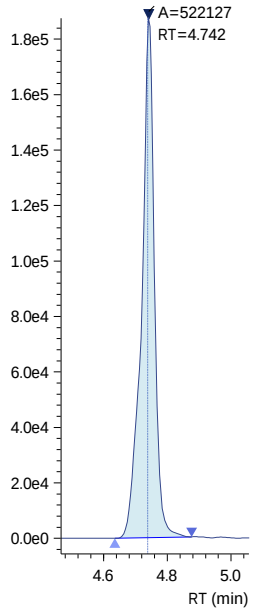
R1 499.00>99.00 (-) 1.06e2



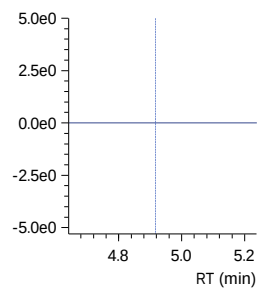
PFOS-13C
Conc 5.2959
Q 502.80>80.05 (-) 1.88e5



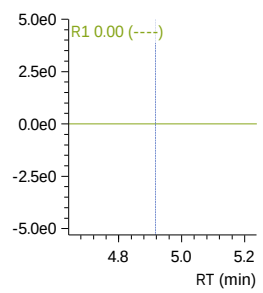
PFOS-13C_IS
Conc 5.0000
ISTD 502.80>80.05 (-) 1.88e5



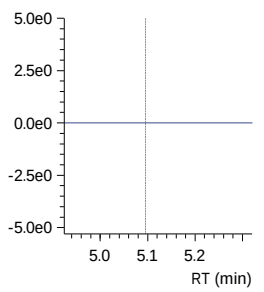
PFNS
Conc ----
R#1 0.00 (160.25)
Q 549.00>99.00 (-) 0.00e0



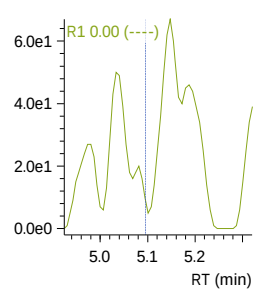
R1 549.00>79.95 (-) 0.00e0



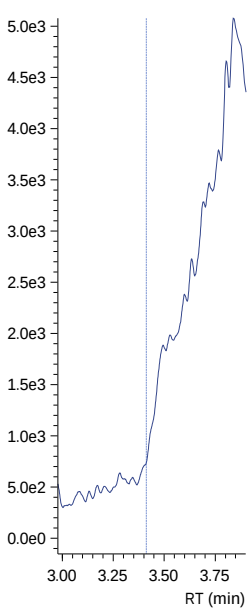
PFDS_1
Conc ----
R#1 0.00 (72.12)
Q 599.00>79.90 (-) 0.00e0



R1 599.00>99.10 (-) 6.70e1

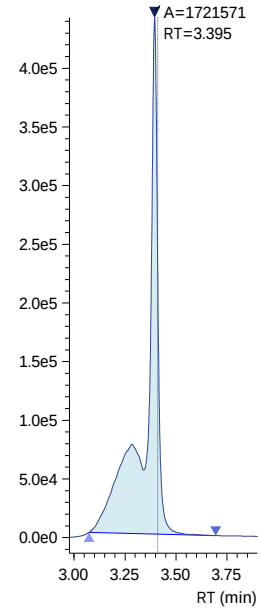


PFBA
Conc ----
Q 213.00>169.10 (-) 5.08e3

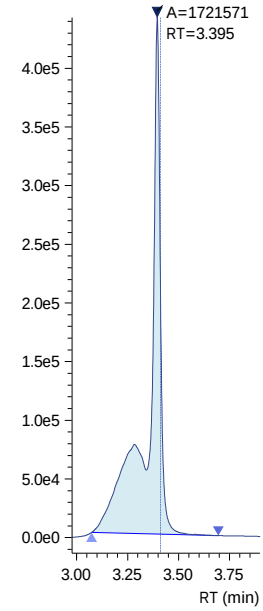


210914_016 (continued)

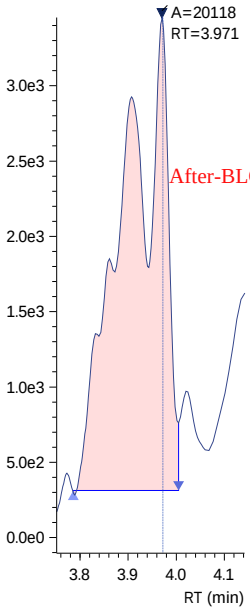
PFBA-13C
Conc 4.7441
Q 216.90>172.15 (-) 4.43e5



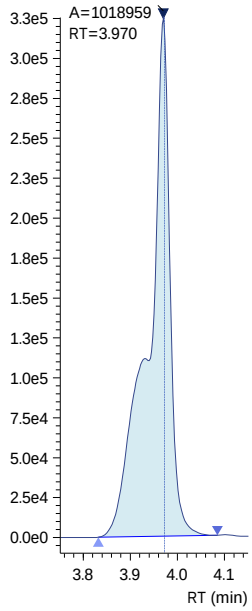
PFBA-13C_IS
Conc 5.0000
ISTD 216.90>172.15 (-) 4.43e5



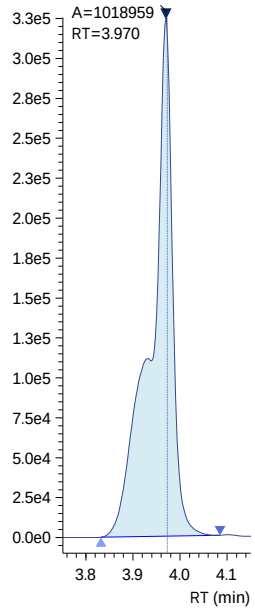
PFPeA
Conc -0.0023
Q 263.05>219.10 (-) 3.45e3



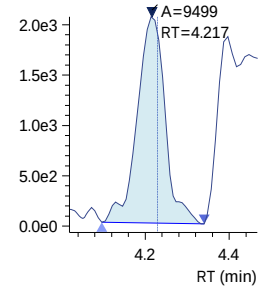
PFPeA-13C
Conc 4.9132
Q 267.90>223.00 (-) 3.26e5



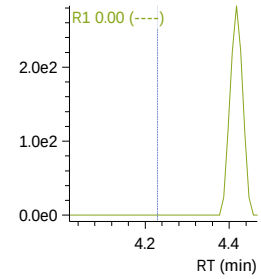
PFPeA-13C_IS
Conc 5.0000
ISTD 267.90>223.00 (-) 3.26e5



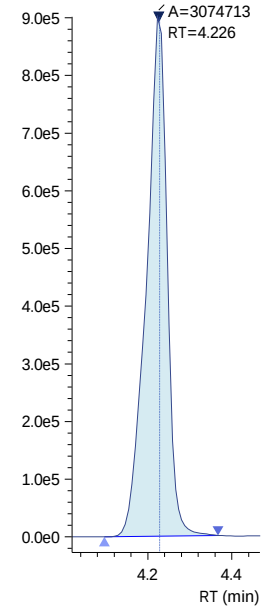
PFHxA
Conc 0.0118
R#1 0.00 (4.40)
Q 313.00>269.00 (-) 2.08e3



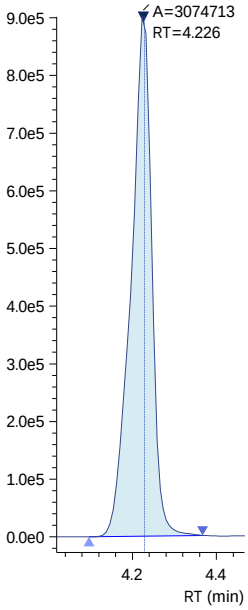
R1 313.00>119.10 (-) 2.83e2



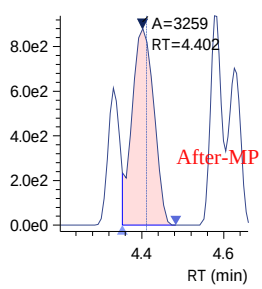
PFHxA-13C
Conc 5.2248
Q 314.90>270.10 (-) 9.02e5



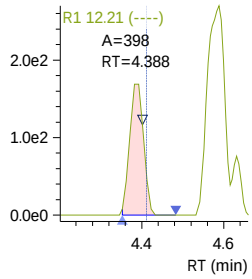
PFHxA-13C_IS
Conc 5.0000
ISTD 314.90>270.10 (-) 9.02e5



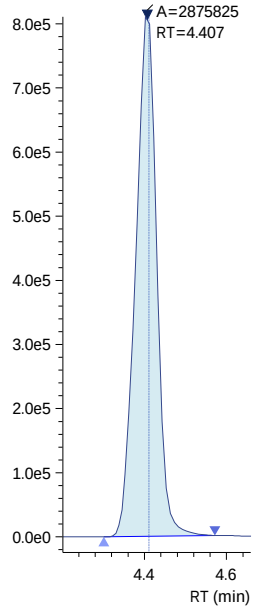
PFHpA
Conc 0.0047
R#1 12.21 (24.40)
Q 362.90>319.00 (-) 9.38e2



R1 362.90>169.00 (-) 2.70e2



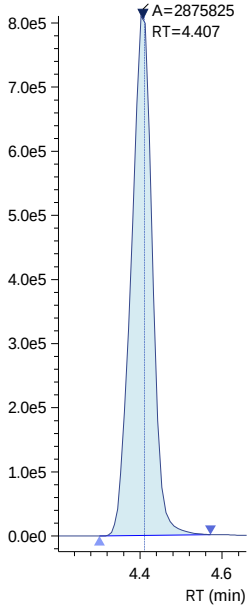
PFHpA-13C
Conc 5.3886
Q 366.90>322.10 (-) 8.11e5



210914_016 (continued)

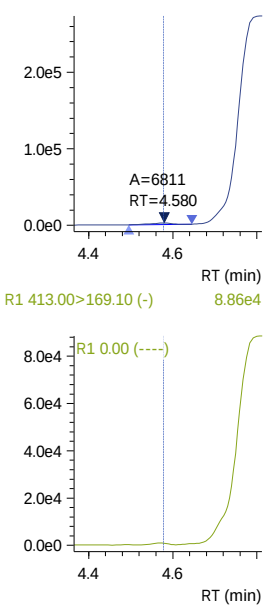
PFHpA-13C_IS
Conc 5.0000

ISTD 366.90>322.10 (-) 8.11e5



PFOA
Conc 0.0068
R#1 0.00 (31.89)

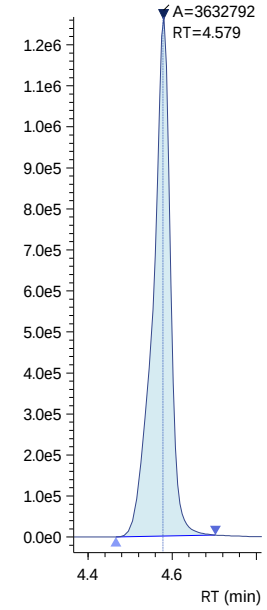
Q 413.00>369.00 (-) 2.74e5



R1 413.00>169.10 (-) 8.86e4

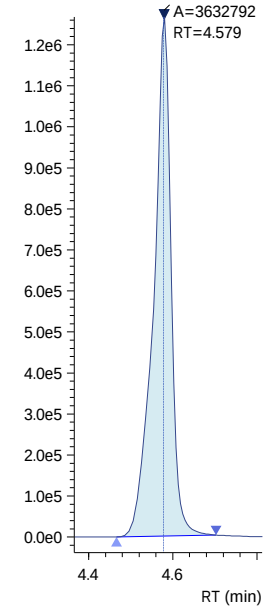
PFOA-13C
Conc 5.0916

Q 416.80>372.05 (-) 1.27e6



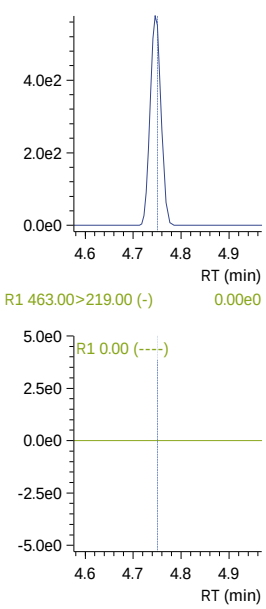
PFOA-13C_IS
Conc 5.0000

ISTD 416.80>372.05 (-) 1.27e6



PFNA
Conc ----
R#1 0.00 (23.25)

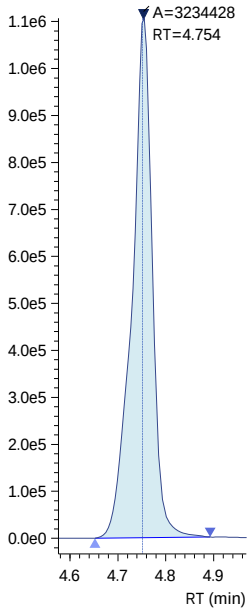
Q 463.00>418.90 (-) 5.77e2



R1 463.00>219.00 (-) 0.00e0

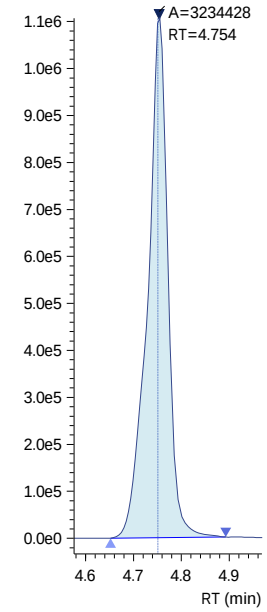
PFNA-13C
Conc 5.2617

Q 467.80>423.00 (-) 1.11e6



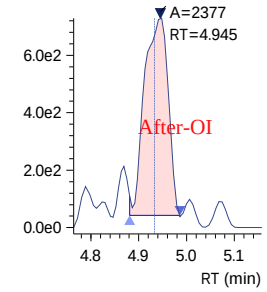
PFNA-13C_IS
Conc 5.0000

ISTD 467.80>423.00 (-) 1.11e6

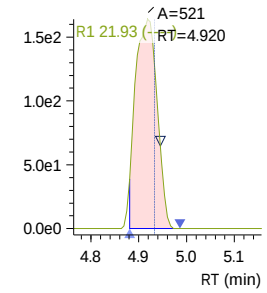


PFDA
Conc 0.0034
R#1 21.93 (20.24)

Q 513.00>468.80 (-) 7.29e2

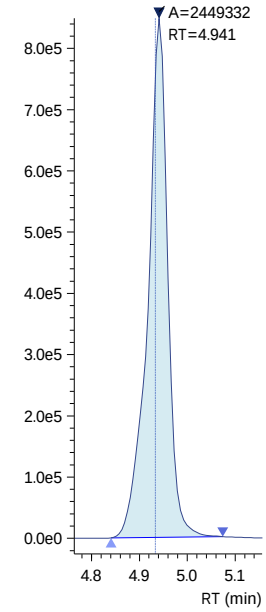


R1 513.00>219.10 (-) 1.64e2



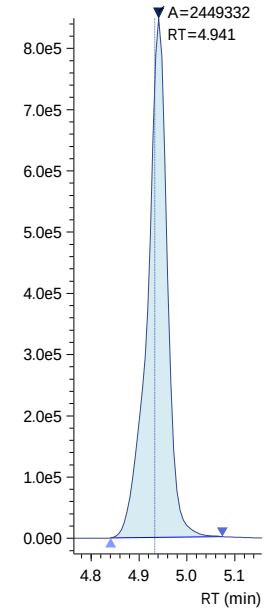
PFDA-13C
Conc 5.7310

Q 514.80>469.95 (-) 8.49e5



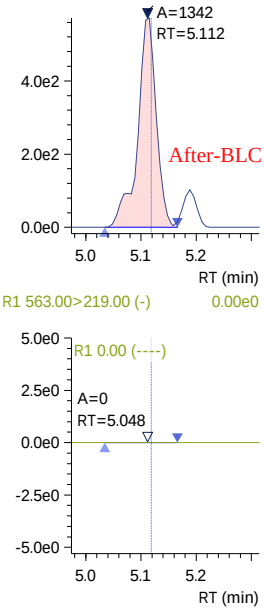
PFDA-13C_IS
Conc 5.0000

ISTD 514.80>469.95 (-) 8.49e5



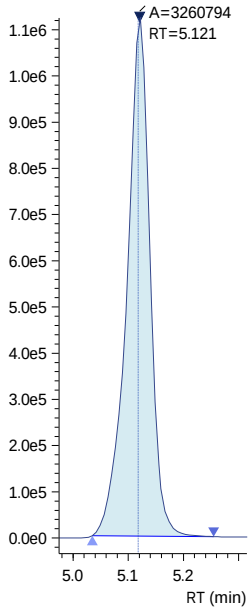
210914_016 (continued)

PFUnA
Conc 0.0019
R#1 0.00 (12.46)
Q 563.00>518.90 (-) 5.72e2

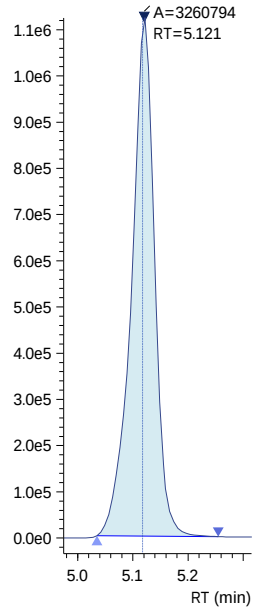


R1 563.00>219.00 (-) 0.00e0

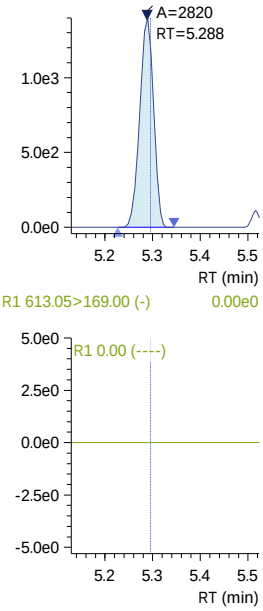
PFUnA-13C
Conc 5.0601
Q 564.80>519.95 (-) 1.13e6



PFUnA-13C_IS
Conc 5.0000
ISTD 564.80>519.95 (-) 1.13e6

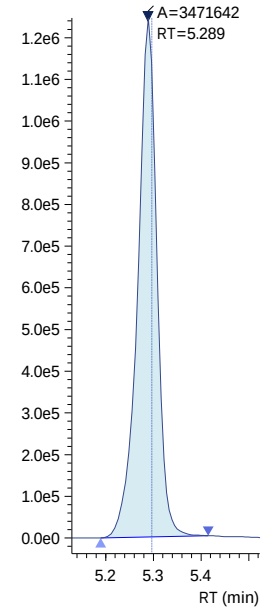


PFDoA
Conc 0.0046
R#1 0.00 (16.50)
Q 613.05>569.00 (-) 1.40e3

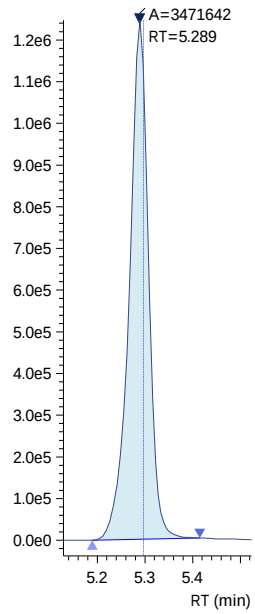


R1 613.05>169.00 (-) 0.00e0

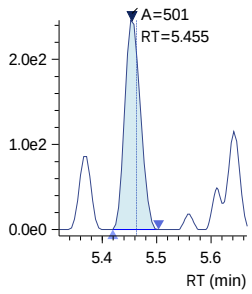
PFDoA-13C
Conc 4.8842
Q 614.80>569.95 (-) 1.25e6



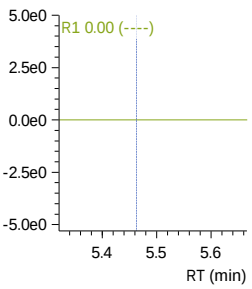
PFDoA-13C_IS
Conc 5.0000
ISTD 614.80>569.95 (-) 1.25e6



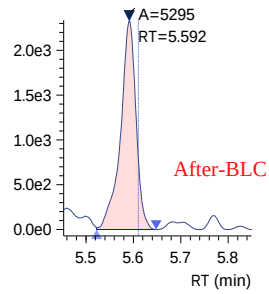
PFTrDA
Conc 0.0008
R#1 0.00 (15.29)
Q 663.00>618.90 (-) 2.46e2



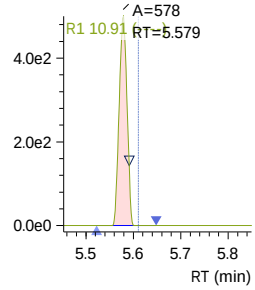
R1 662.90>169.00 (-) 0.00e0



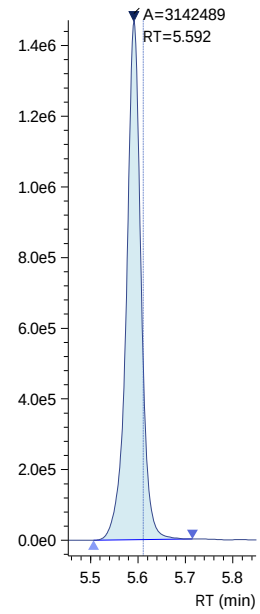
PFTeDA
Conc 0.0076
R#1 10.91 (17.47)
Q 713.00>669.00 (-) 2.33e3



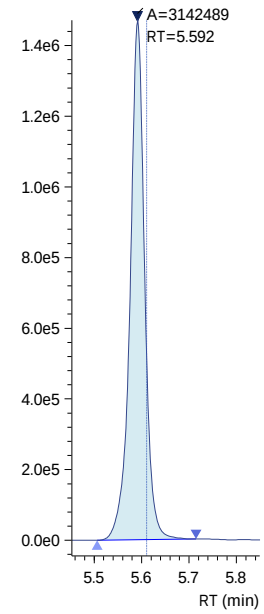
R1 713.00>169.10 (-) 5.00e2



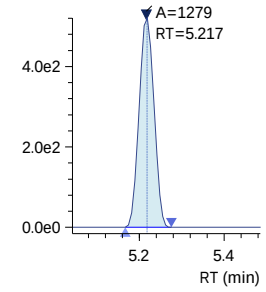
PFTeDA-13C
Conc 4.4063
Q 714.70>669.90 (-) 1.47e6

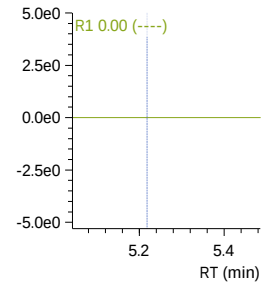


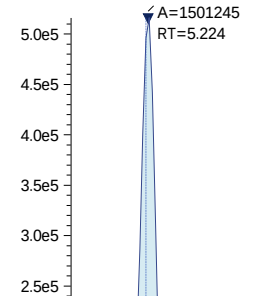
PFTeDA-13C_IS
Conc 5.0000
ISTD 714.70>669.90 (-) 1.47e6

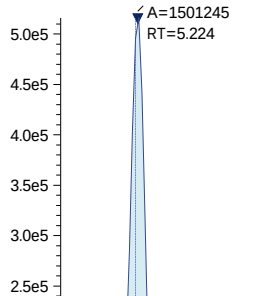


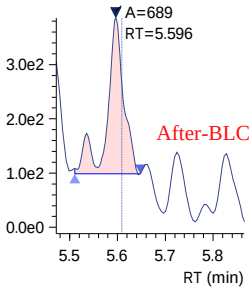
210914_016 (continued)

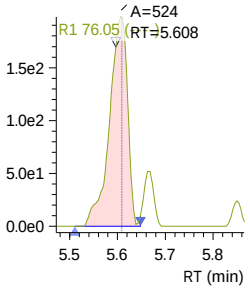
FOSA
Conc 0.0036
R#1 0.00 (5.19)
Q 498.20>78.00 (-) 5.21e2


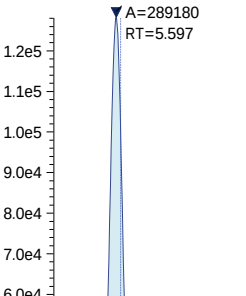
R1 498.20>64.10 (-) 0.00e0


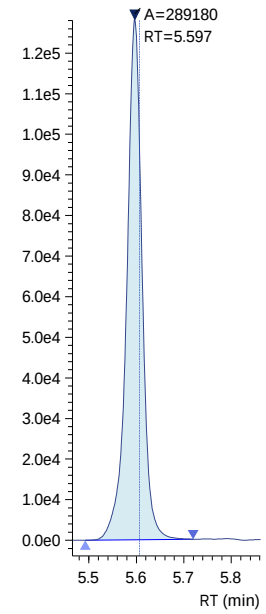
FOSA-13C
Conc 5.0734
Q 506.00>78.05 (-) 5.16e5


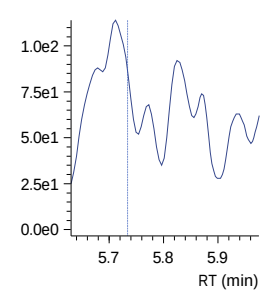
FOSA-13C_IS
Conc 5.0000
ISTD 506.00>78.05 (-) 5.16e5


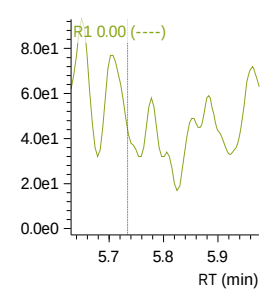
N-MeFOSA
Conc 0.0063
R#1 76.05 (69.94)
Q 512.00>169.10 (-) 3.86e2


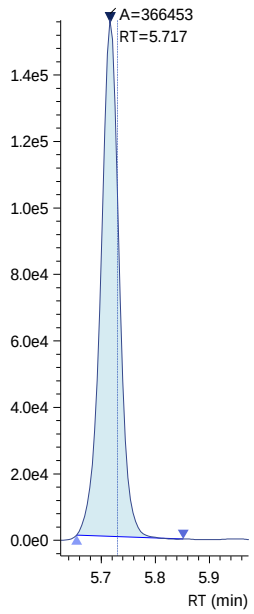
R1 512.00>219.00 (-) 1.98e2


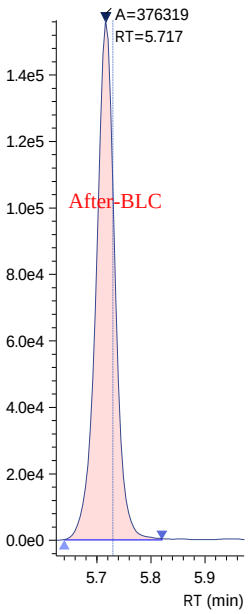
N-MeFOSA-d3
Conc 4.3555
Q 514.90>168.90 (-) 1.28e5


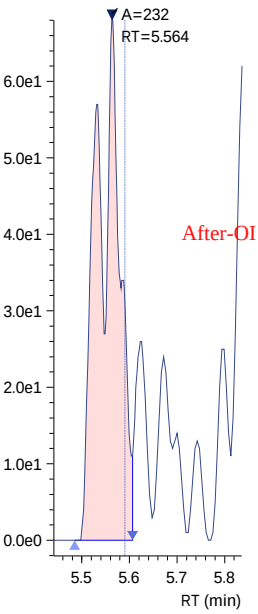
N-MeFOSA-d3_IS
Conc 5.0000
ISTD 514.90>168.90 (-) 1.28e5


N-EtFOSA
Conc ----
R#1 0.00 (66.52)
Q 526.90>169.10 (-) 1.14e2


R1 526.90>219.00 (-) 9.30e1


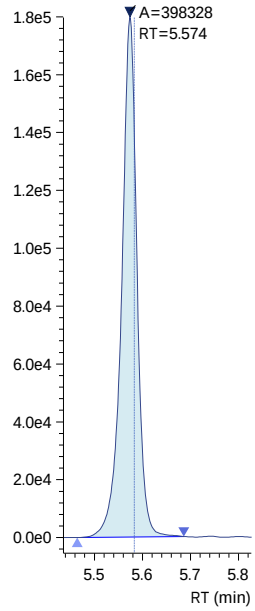
N-EtFOSA-d9
Conc 4.7377
Q 530.90>169.15 (-) 1.56e5


N-EtFOSA-d9_IS
Conc 5.0000
ISTD 530.90>169.15 (-) 1.56e5


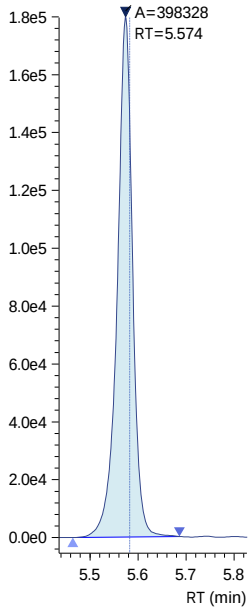
N-MeFOSE
Conc 0.0016
Q 616.00>59.00 (-) 6.80e1


210914_016 (continued)

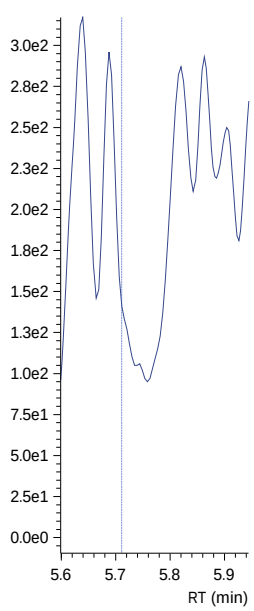
N-MeFOSE-d7
Conc 3.8961
Q 622.70>59.10 (-) 1.80e5



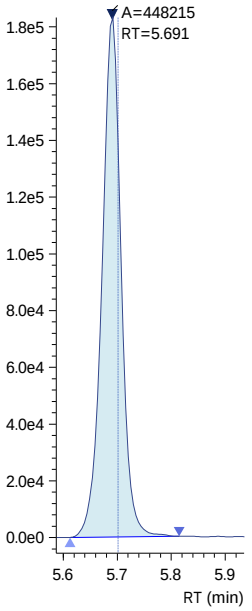
N-MeFOSE-d7_IS
Conc 5.0000
ISTD 622.70>59.10 (-) 1.80e5



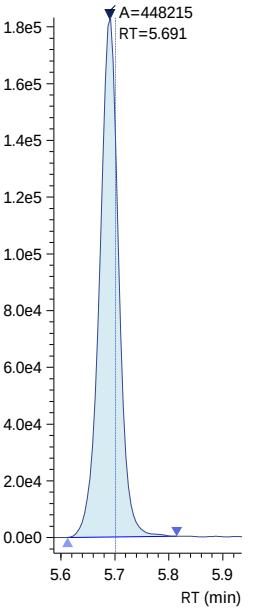
N-EtFOSE
Conc ----
Q 630.00>58.90 (-) 3.17e2



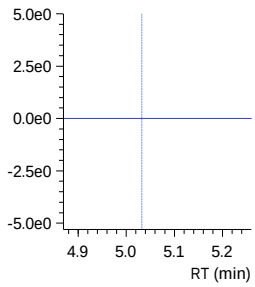
N-EtFOSE-d9
Conc 4.6295
Q 638.70>59.10 (-) 1.83e5



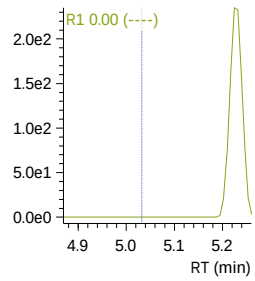
N-EtFOSE-d9_IS
Conc 5.0000
ISTD 638.70>59.10 (-) 1.83e5



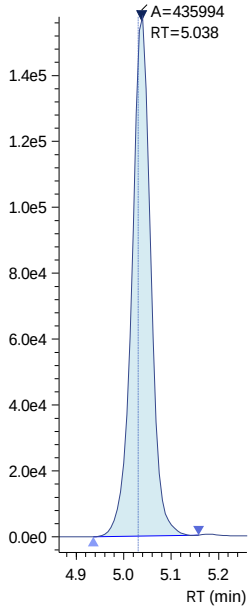
N-MeFOSAA
Conc ----
R#1 0.00 (39.56)
Q 570.20>419.00 (-) 0.00e0



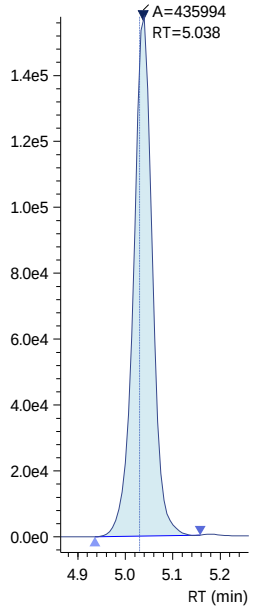
R1 570.20>512.00 (-) 2.35e2



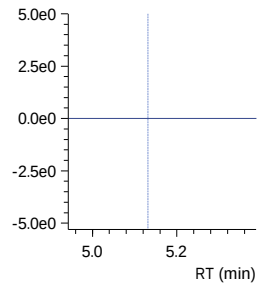
N-MeFOSAA-d3
Conc 3.7120
Q 572.80>419.05 (-) 1.58e5



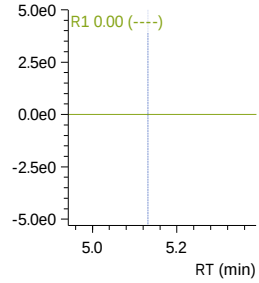
N-MeFOSAA-d3_IS
Conc 5.0000
ISTD 572.80>419.05 (-) 1.58e5



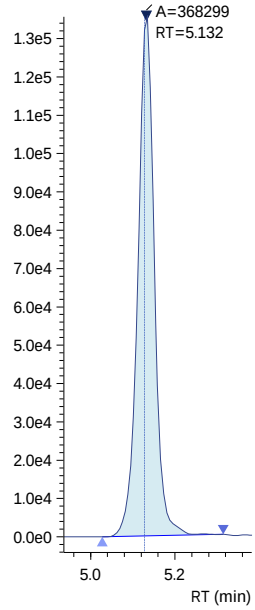
N-EtFOSAA
Conc ----
R#1 0.00 (84.54)
Q 584.20>418.95 (-) 0.00e0



R1 584.20>526.10 (-) 0.00e0

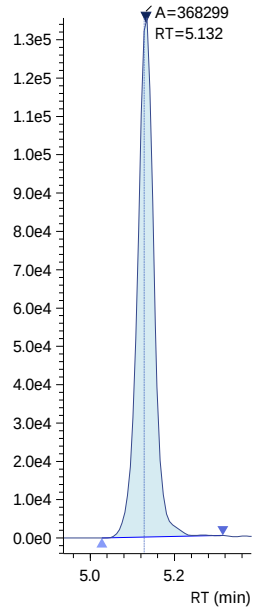


N-EtFOSAA-d5
Conc 3.7082
Q 588.80>419.00 (-) 1.36e5

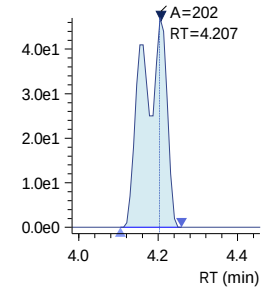


210914_016 (continued)

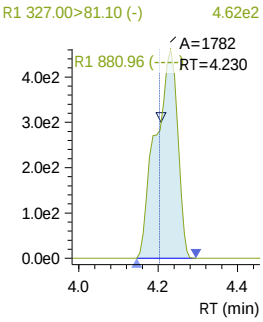
N-EtFOSAA-d5_IS
Conc 5.0000
ISTD 588.80>419.00 (-) 1.36e5



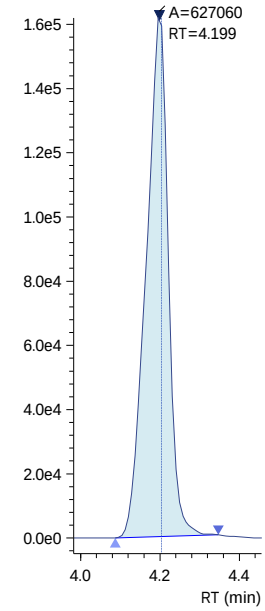
4_2-FTS_1
Conc 0.0018
R#1 880.96 (34.12)
Q 327.00>307.05 (-) 4.70e1



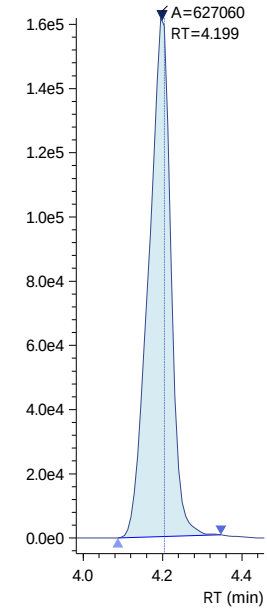
R1 327.00>81.10 (-) 4.62e2



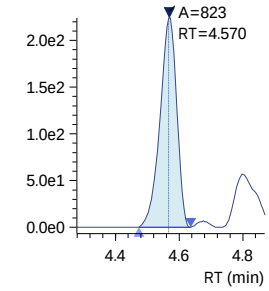
4_2-FTS-13C
Conc 5.6963
Q 328.80>309.05 (-) 1.62e5



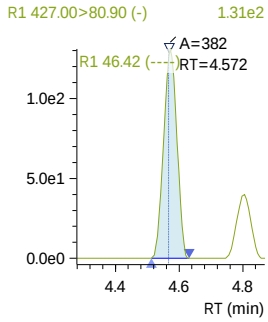
4_2-FTS-13C_IS
Conc 5.0000
ISTD 328.80>309.05 (-) 1.62e5



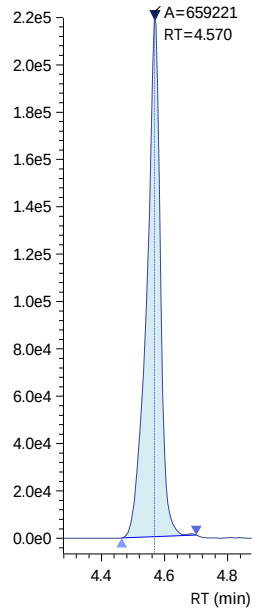
6_2-FTS_1
Conc 0.0048
R#1 46.42 (37.36)
Q 427.00>407.00 (-) 2.24e2



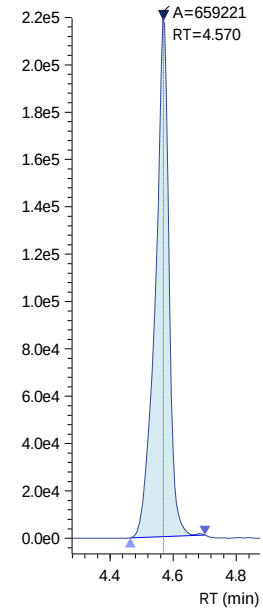
R1 427.00>80.90 (-) 1.31e2



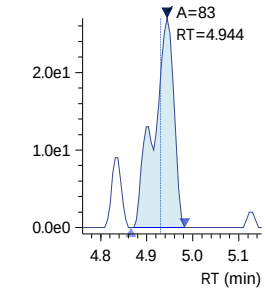
6_2-FTS-13C
Conc 7.0879
Q 428.90>409.00 (-) 2.20e5



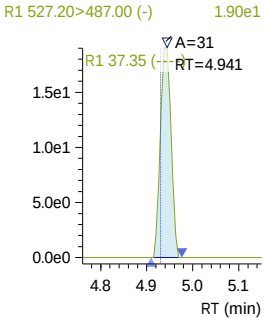
6_2-FTS-13C_IS
Conc 5.0000
ISTD 428.90>409.00 (-) 2.20e5



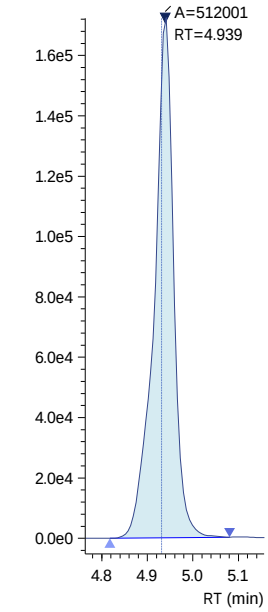
8_2-FTS_1
Conc 0.0008
R#1 37.35 (10.63)
Q 527.10>506.90 (-) 2.70e1



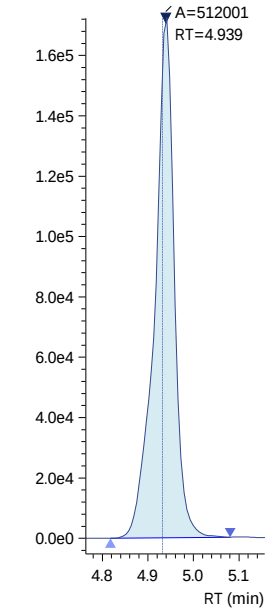
R1 527.20>487.00 (-) 1.90e1



8_2-FTS-13C
Conc 7.5727
Q 528.80>509.00 (-) 1.72e5

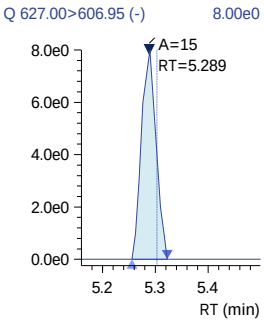


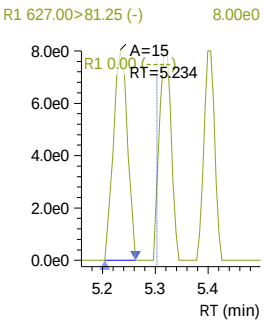
8_2-FTS-13C_IS
Conc 5.0000
ISTD 528.80>509.00 (-) 1.72e5



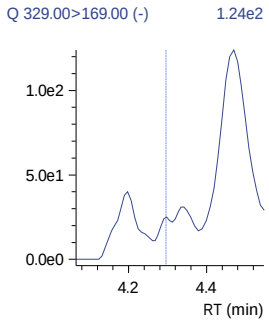
210914_016 (continued)

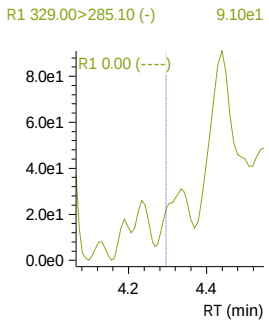
10_2-FtS_1
Conc 0.0002
R#1 0.00 (21.61)



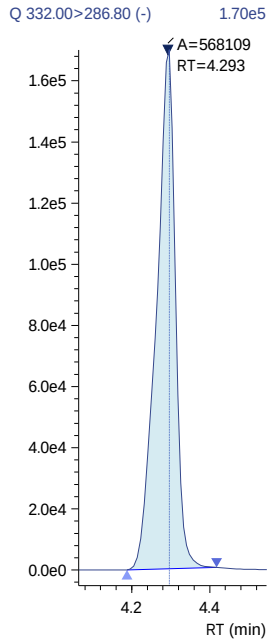


HPFO_DA
Conc ----
R#1 0.00 (106.46)

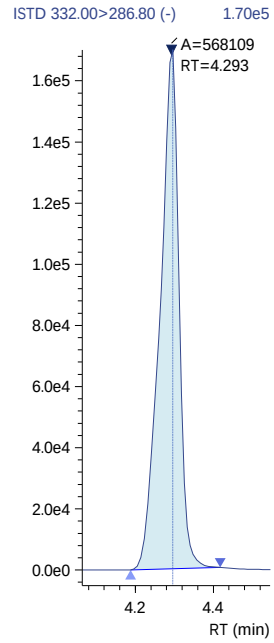




HFPO_DA-13C
Conc 5.6988



HFPO_DA-13C_IS
Conc 5.0000

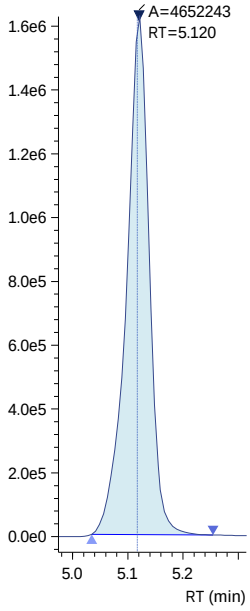


Insight Report
Before Manual Integration
Printed 9/14/2021 18:37:49

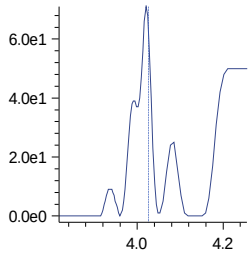
210914_016

Sample ID: CCB
Date Acquired: 9/14/2021 1:42:06 PM
Acquired by: System Administrator
Data File: 210914_016
Vial: 9 | Inj. Volume: 15.0000uL | Tray: 1

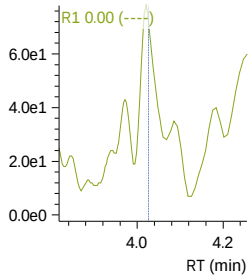
13C7-PFUnDA_IS
Conc 5.0000
ISTD 570.00>525.00 (-) 1.63e6



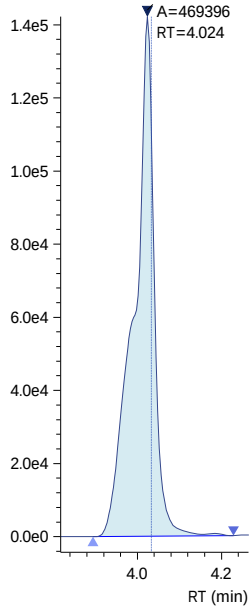
PFBS_1
Conc ----
R#1 0.00 (49.34)
Q 299.00>80.00 (-) 7.10e1



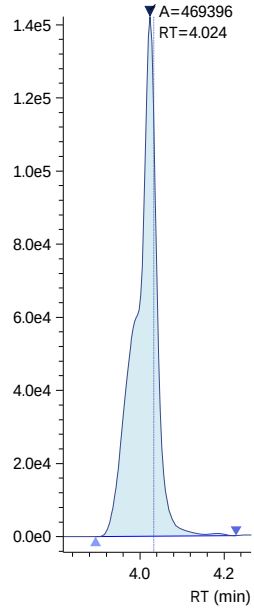
R1 298.80>99.00 (-) 7.80e1



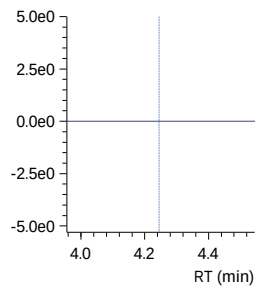
PFBS-13C
Conc 4.6406
Q 301.80>80.00 (-) 1.42e5



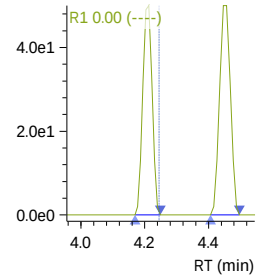
PFBS-13C_IS
Conc 5.0000
ISTD 301.80>80.00 (-) 1.42e5



PFPeS
Conc ----
R#1 0.00 (151.30)
Q 349.00>99.00 (-) 0.00e0

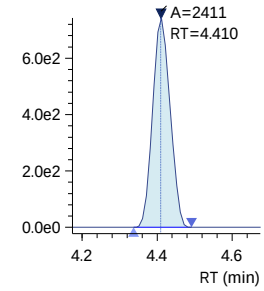


R1 349.00>79.95 (-) 5.00e1

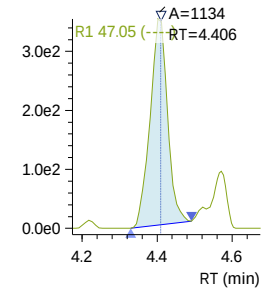


210914_016 (continued)

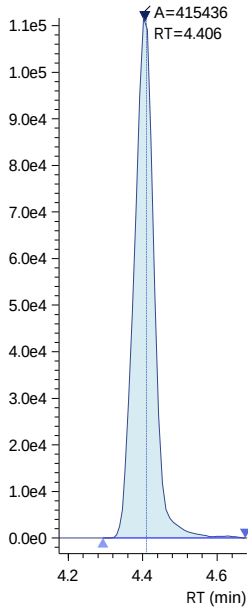
PFHxS_1
Conc -0.0033
R#1 47.05 (62.92)
Q 399.00>80.00 (-) 7.43e2



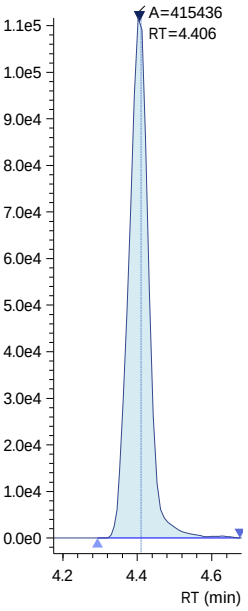
R1 399.00>99.00 (-) 3.55e2



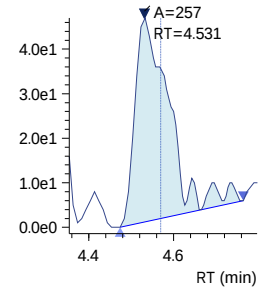
PFHxS-18O
Conc 5.7583
Q 402.70>84.05 (-) 1.12e5



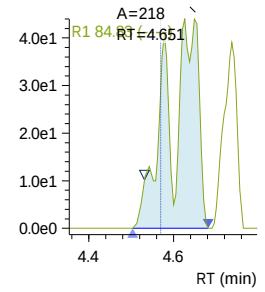
PFHxS-18O_IS
Conc 5.0000
ISTD 402.70>84.05 (-) 1.12e5



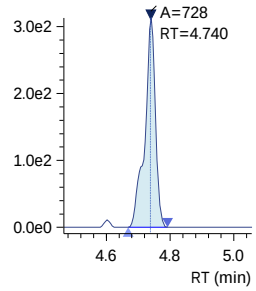
PFHpS_1
Conc 0.0018
R#1 84.83 (40.53)
Q 449.00>80.15 (-) 4.70e1



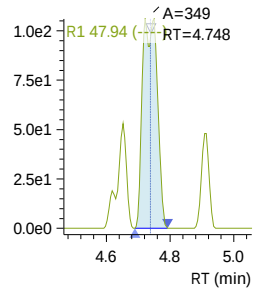
R1 449.00>99.20 (-) 4.40e1



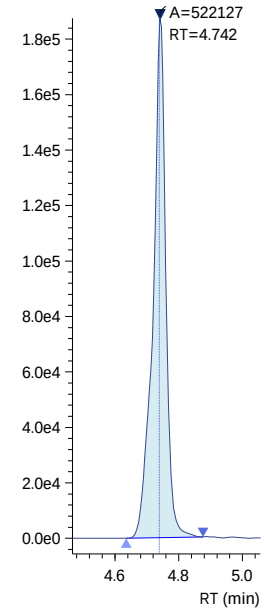
PFOS_1
Conc 0.0075
R#1 47.94 (73.81)
Q 499.00>80.00 (-) 3.13e2



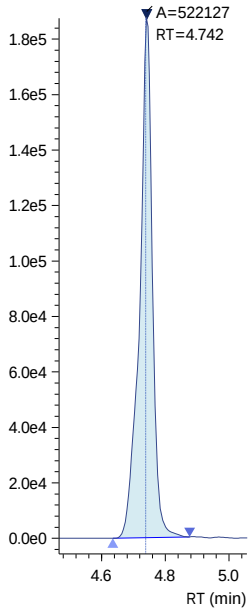
R1 499.00>99.00 (-) 1.06e2



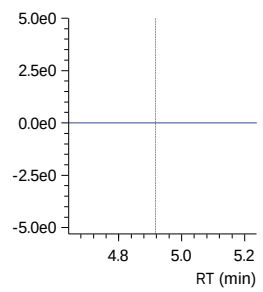
PFOS-13C
Conc 5.2959
Q 502.80>80.05 (-) 1.88e5



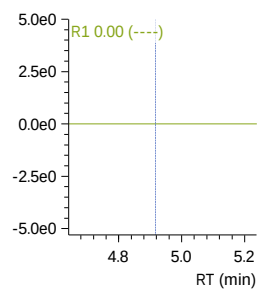
PFOS-13C_IS
Conc 5.0000
ISTD 502.80>80.05 (-) 1.88e5



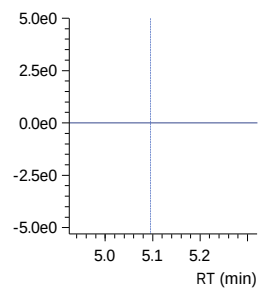
PFNS
Conc ----
R#1 0.00 (160.25)
Q 549.00>99.00 (-) 0.00e0



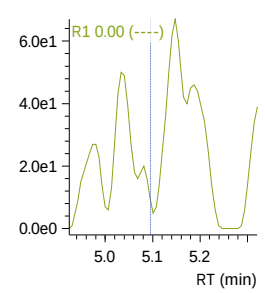
R1 549.00>79.95 (-) 0.00e0



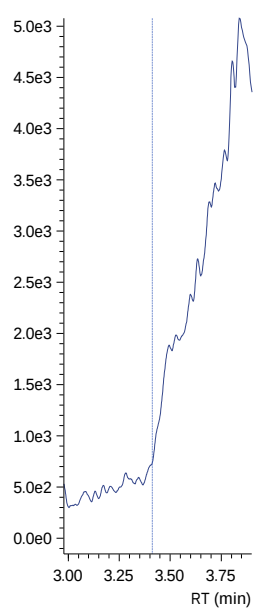
PFDS_1
Conc ----
R#1 0.00 (72.12)
Q 599.00>79.90 (-) 0.00e0



R1 599.00>99.10 (-) 6.70e1

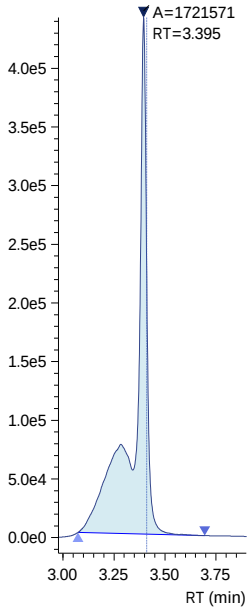


PFBA
Conc ----
Q 213.00>169.10 (-) 5.08e3

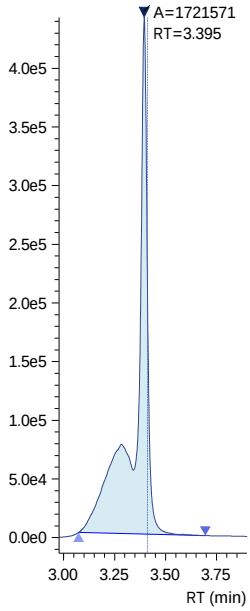


210914_016 (continued)

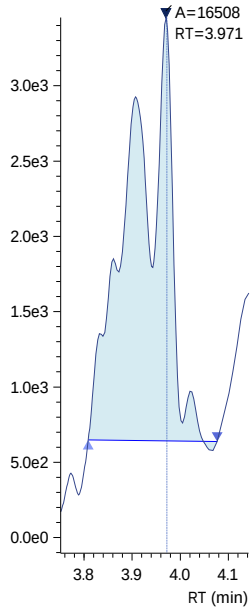
PFBA-13C
Conc 4.7441
Q 216.90>172.15 (-) 4.43e5



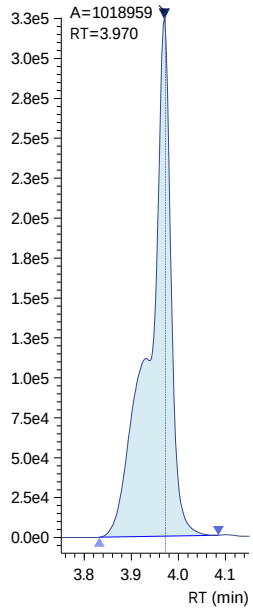
PFBA-13C_IS
Conc 5.0000
ISTD 216.90>172.15 (-) 4.43e5



PFPeA
Conc -0.0081
Q 263.05>219.10 (-) 3.45e3



PFPeA-13C
Conc 4.9132
Q 267.90>223.00 (-) 3.26e5



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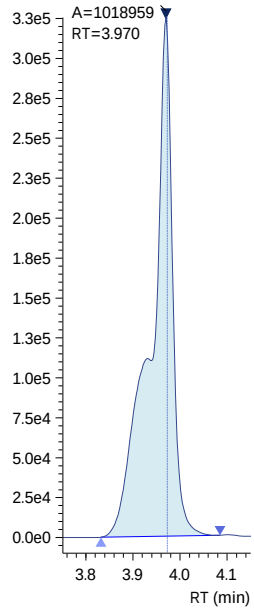
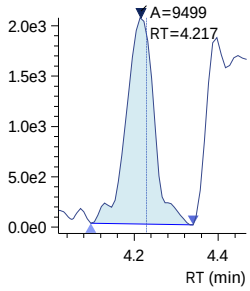
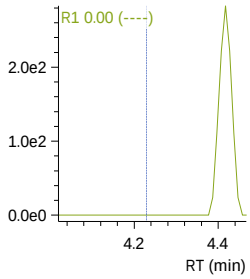
Conc 5.0000
ISTD 267.90>223.00 (-) 3.26e5



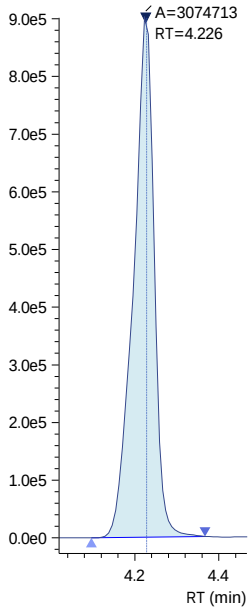
PFHxA
Conc 0.0118
R#1 0.00 (4.40)
Q 313.00>269.00 (-) 2.08e3



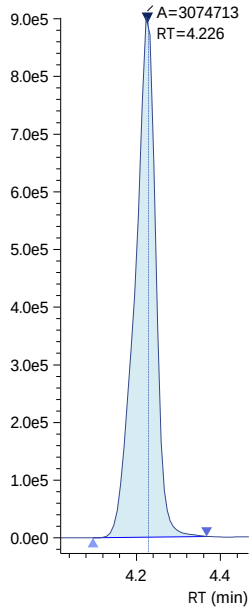
R1 313.00>119.10 (-) 2.83e2



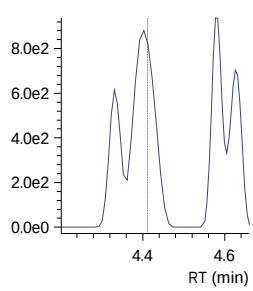
PFHxA-13C
Conc 5.2248
Q 314.90>270.10 (-) 9.02e5



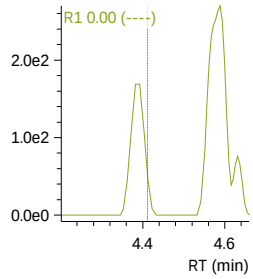
PFHxA-13C_IS
Conc 5.0000
ISTD 314.90>270.10 (-) 9.02e5



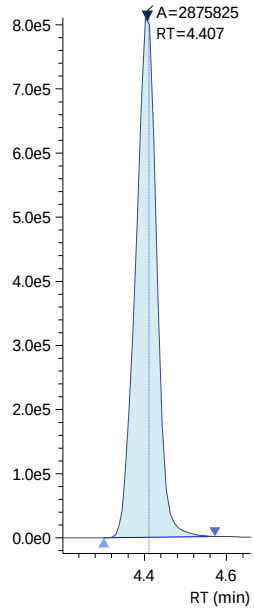
PFHpA
Conc ----
R#1 0.00 (24.40)
Q 362.90>319.00 (-) 9.38e2



R1 362.90>169.00 (-) 2.70e2



PFHpA-13C
Conc 5.3886
Q 366.90>322.10 (-) 8.11e5



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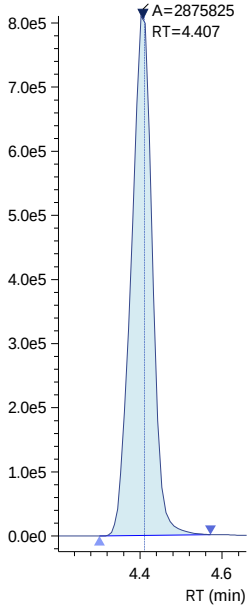
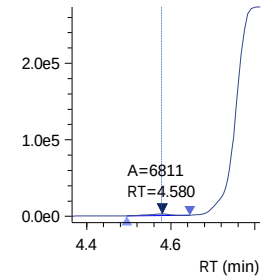
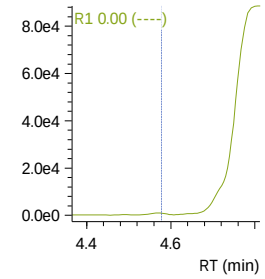
PFHpA-13C_IS
Conc 5.0000
ISTD 366.90>322.10 (-) 8.11e5



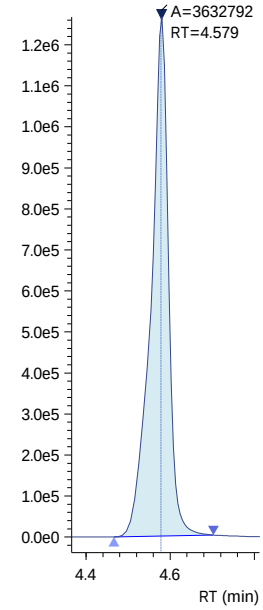
PFOA
Conc 0.0068
R#1 0.00 (31.89)
Q 413.00>369.00 (-) 2.74e5



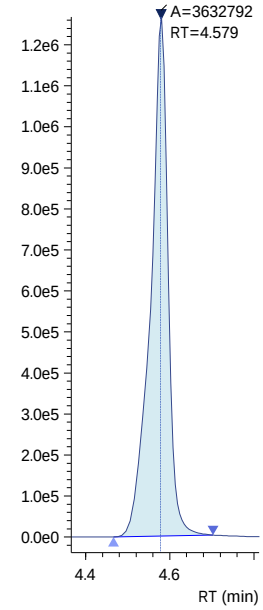
R1 413.00>169.10 (-) 8.86e4



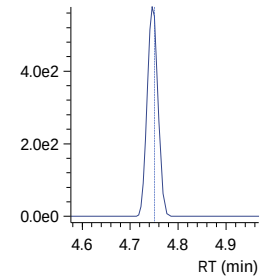
PFOA-13C
Conc 5.0916
Q 416.80>372.05 (-) 1.27e6



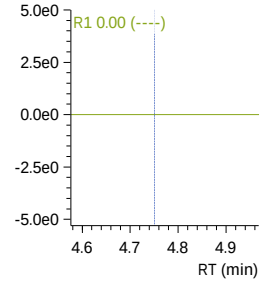
PFOA-13C_IS
Conc 5.0000
ISTD 416.80>372.05 (-) 1.27e6



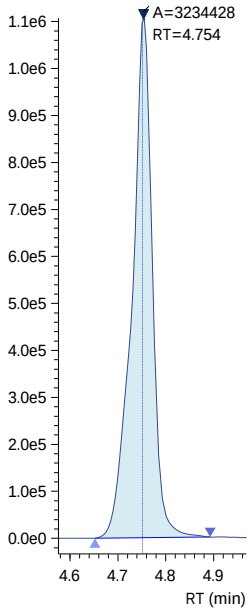
PFNA
Conc ----
R#1 0.00 (23.25)
Q 463.00>418.90 (-) 5.77e2



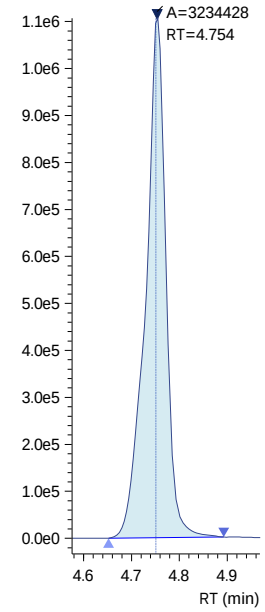
R1 463.00>219.00 (-) 0.00e0



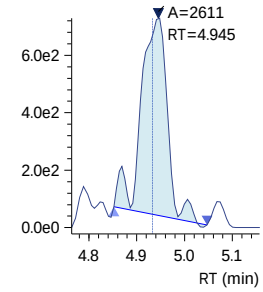
PFNA-13C
Conc 5.2617
Q 467.80>423.00 (-) 1.11e6



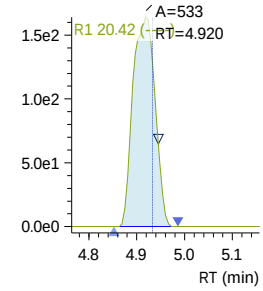
PFNA-13C_IS
Conc 5.0000
ISTD 467.80>423.00 (-) 1.11e6



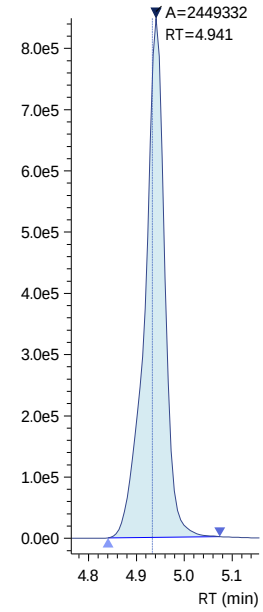
PFDA
Conc 0.0038
R#1 20.42 (20.24)
Q 513.00>468.80 (-) 7.29e2



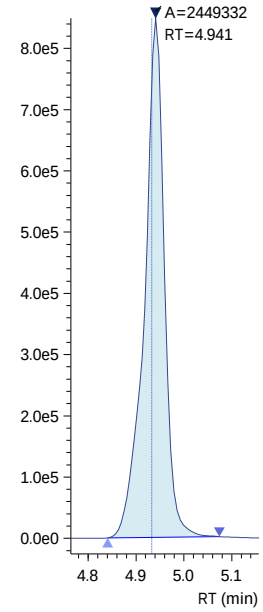
R1 513.00>219.10 (-) 1.64e2



PFDA-13C
Conc 5.7310
Q 514.80>469.95 (-) 8.49e5



PFDA-13C_IS
Conc 5.0000
ISTD 514.80>469.95 (-) 8.49e5



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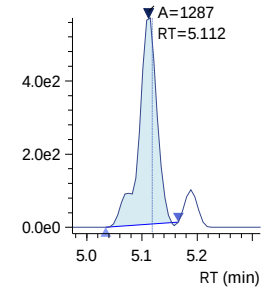
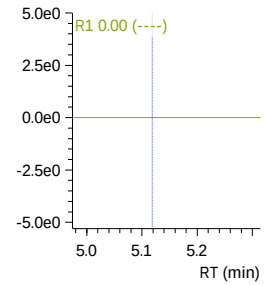
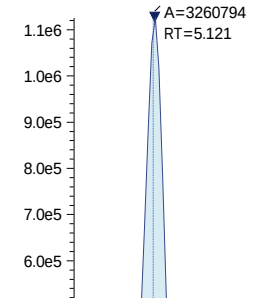
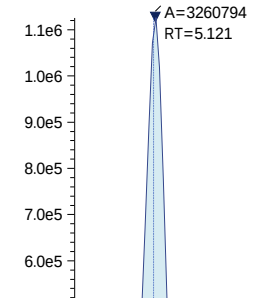
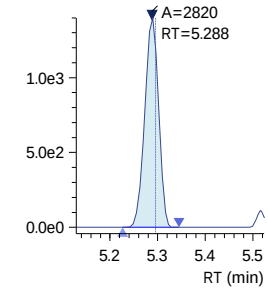
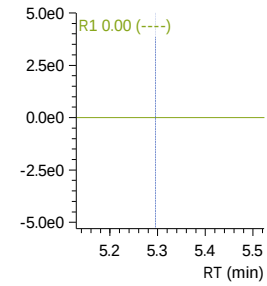
PFUnA
Conc 0.0018
R#1 0.00 (12.46)
Q 563.00>518.90 (-) 5.72e2


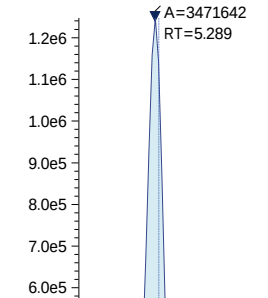
R1 563.00>219.00 (-) 0.00e0


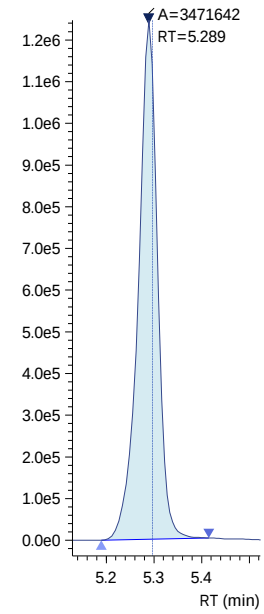
PFUnA-13C
Conc 5.0601
Q 564.80>519.95 (-) 1.13e6


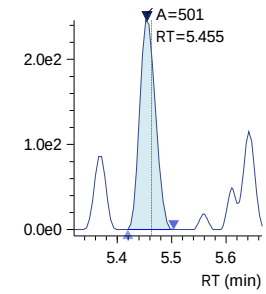
PFUnA-13C_IS
Conc 5.0000
ISTD 564.80>519.95 (-) 1.13e6


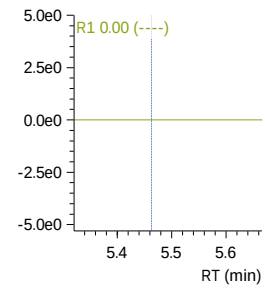
PFDoA
Conc 0.0046
R#1 0.00 (16.50)
Q 613.05>569.00 (-) 1.40e3


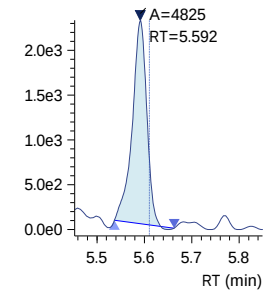
R1 613.05>169.00 (-) 0.00e0


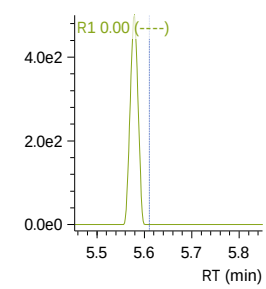
PFDoA-13C
Conc 4.8842
Q 614.80>569.95 (-) 1.25e6


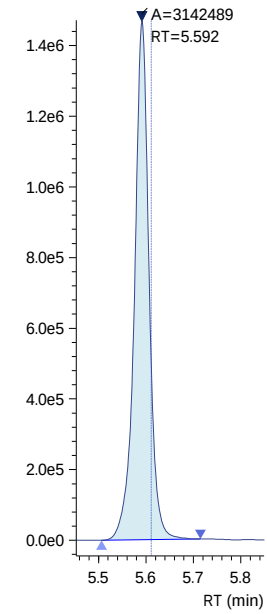
PFDoA-13C_IS
Conc 5.0000
ISTD 614.80>569.95 (-) 1.25e6


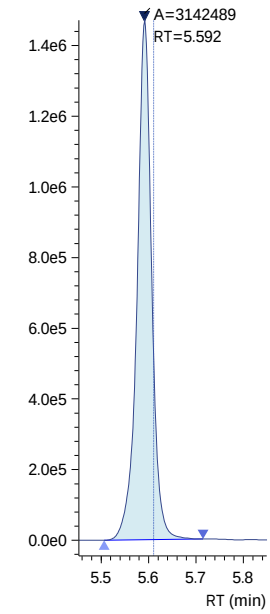
PFTrDA
Conc 0.0008
R#1 0.00 (15.29)
Q 663.00>618.90 (-) 2.46e2


R1 662.90>169.00 (-) 0.00e0


PFTeDA
Conc 0.0069
R#1 0.00 (17.47)
Q 713.00>669.00 (-) 2.33e3


R1 713.00>169.10 (-) 5.00e2


PFTeDA-13C
Conc 4.4063
Q 714.70>669.90 (-) 1.47e6


PFTeDA-13C_IS
Conc 5.0000
ISTD 714.70>669.90 (-) 1.47e6


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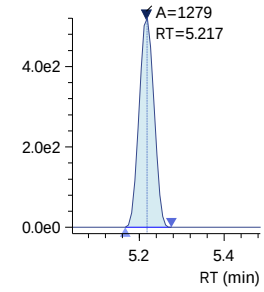
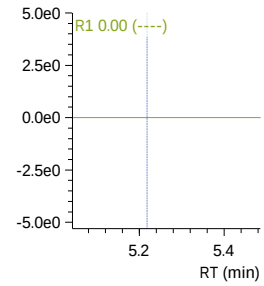
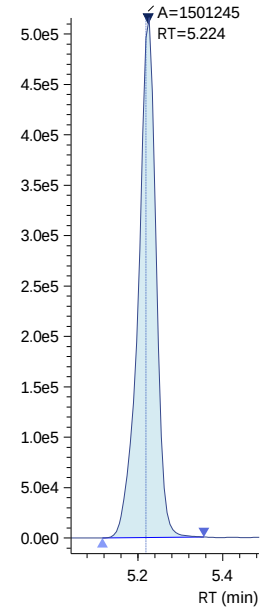
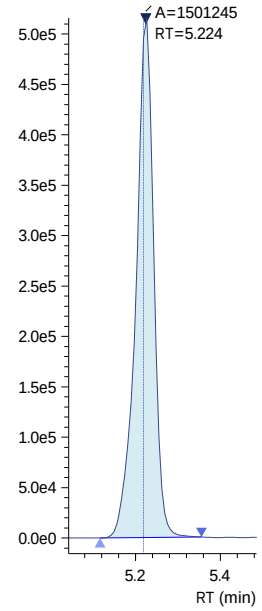
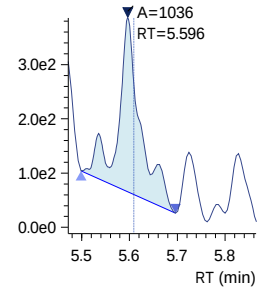
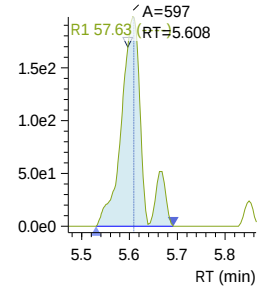
FOSA
Conc 0.0036
R#1 0.00 (5.19)
Q 498.20>78.00 (-) 5.21e2


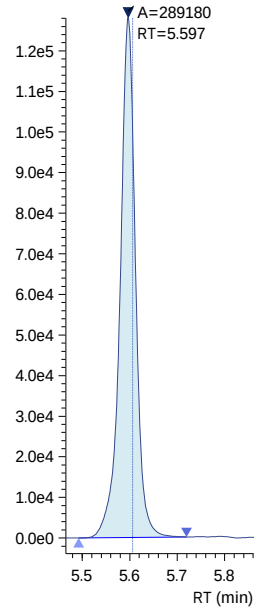
R1 498.20>64.10 (-) 0.00e0


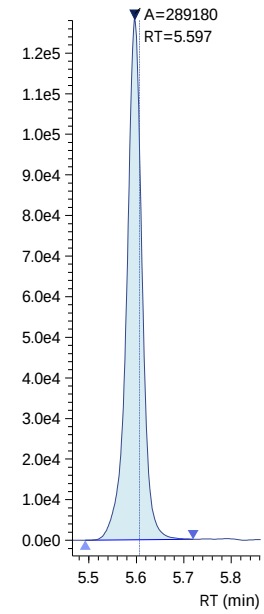
FOSA-13C
Conc 5.0734
Q 506.00>78.05 (-) 5.16e5


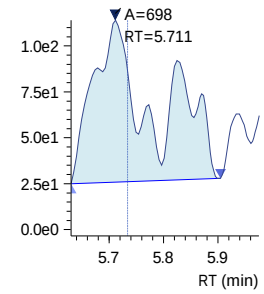
FOSA-13C_IS
Conc 5.0000
ISTD 506.00>78.05 (-) 5.16e5


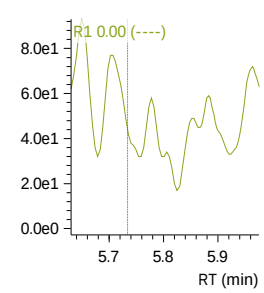
N-MeFOSA
Conc 0.0094
R#1 57.63 (69.94)
Q 512.00>169.10 (-) 3.86e2


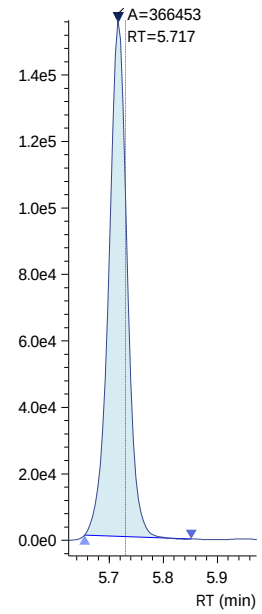
R1 512.00>219.00 (-) 1.98e2


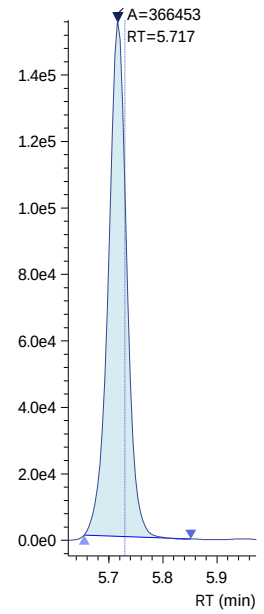
N-MeFOSA-d3
Conc 4.3555
Q 514.90>168.90 (-) 1.28e5


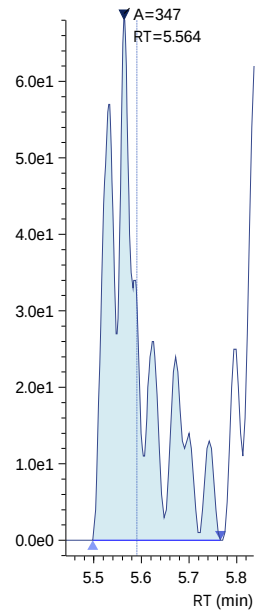
N-MeFOSA-d3_IS
Conc 5.0000
ISTD 514.90>168.90 (-) 1.28e5


N-EtFOSA
Conc 0.0314
R#1 0.00 (66.52)
Q 526.90>169.10 (-) 1.14e2


R1 526.90>219.00 (-) 9.30e1


N-EtFOSA-d9
Conc 4.7377
Q 530.90>169.15 (-) 1.56e5


N-EtFOSA-d9_IS
Conc 5.0000
ISTD 530.90>169.15 (-) 1.56e5


N-MeFOSE
Conc 0.0024
Q 616.00>59.00 (-) 6.80e1


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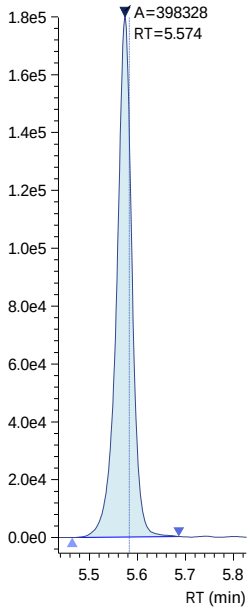
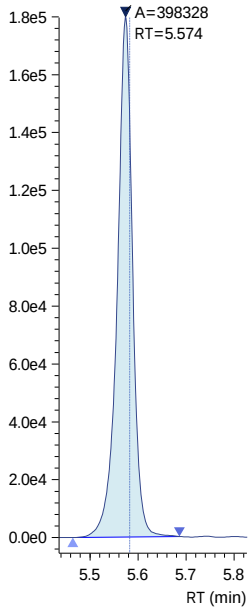
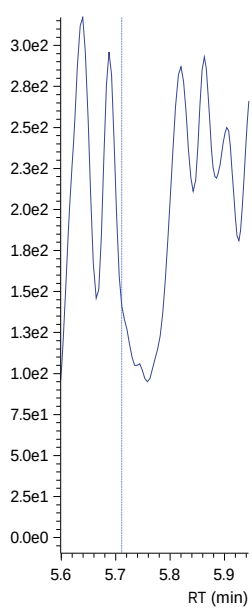
N-MeFOSE-d7
Conc 3.8961
Q 622.70>59.10 (-) 1.80e5



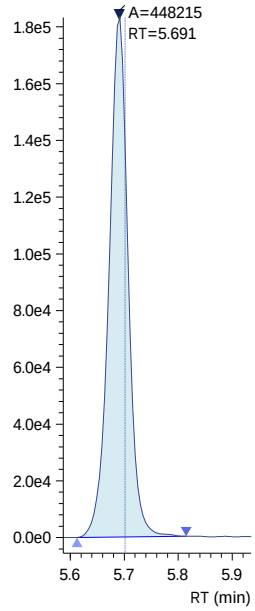
N-MeFOSE-d7_IS
Conc 5.0000
ISTD 622.70>59.10 (-) 1.80e5



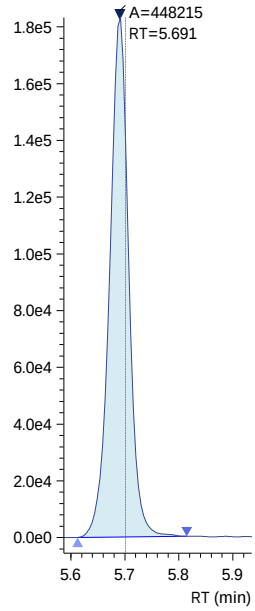
N-EtFOSE
Conc ----
Q 630.00>58.90 (-) 3.17e2



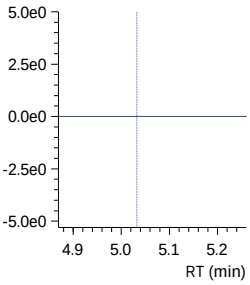
N-EtFOSE-d9
Conc 4.6295
Q 638.70>59.10 (-) 1.83e5



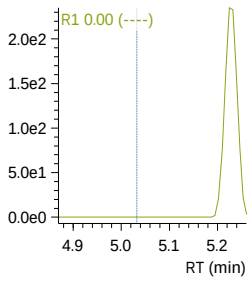
N-EtFOSE-d9_IS
Conc 5.0000
ISTD 638.70>59.10 (-) 1.83e5



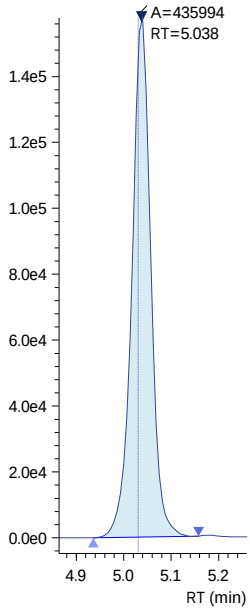
N-MeFOSAA
Conc ----
R#1 0.00 (39.56)
Q 570.20>419.00 (-) 0.00e0



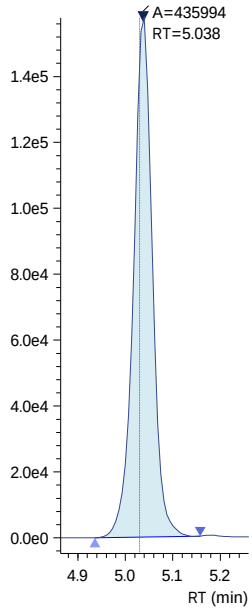
R1 570.20>512.00 (-) 2.35e2



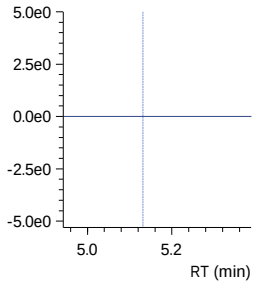
N-MeFOSAA-d3
Conc 3.7120
Q 572.80>419.05 (-) 1.58e5



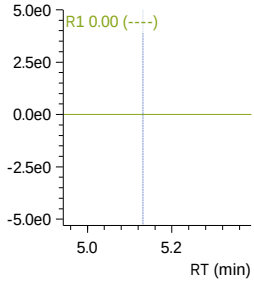
N-MeFOSAA-d3_IS
Conc 5.0000
ISTD 572.80>419.05 (-) 1.58e5



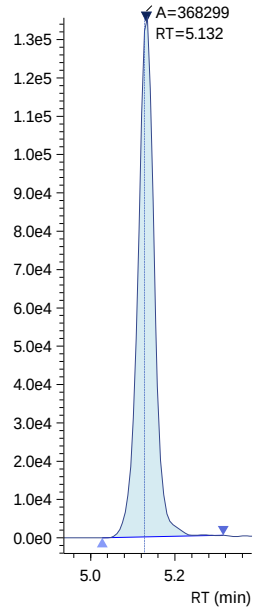
N-EtFOSAA
Conc ----
R#1 0.00 (84.54)
Q 584.20>418.95 (-) 0.00e0



R1 584.20>526.10 (-) 0.00e0

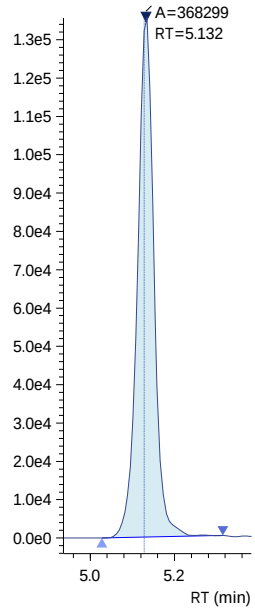


N-EtFOSAA-d5
Conc 3.7082
Q 588.80>419.00 (-) 1.36e5

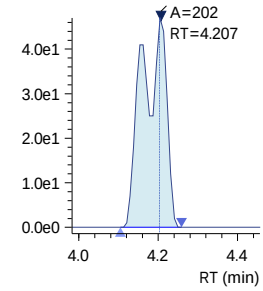


210914_016 (continued)

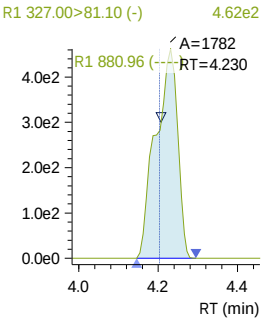
N-EtFOSAA-d5_IS
Conc 5.0000
ISTD 588.80>419.00 (-) 1.36e5



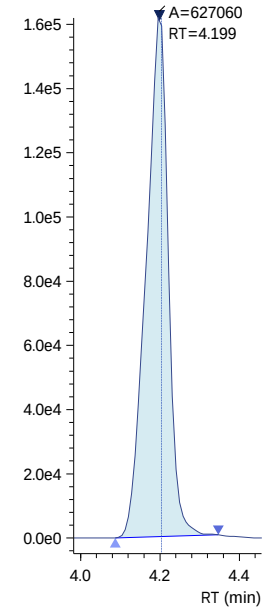
4_2-FTS_1
Conc 0.0018
R#1 880.96 (34.12)
Q 327.00>307.05 (-) 4.70e1



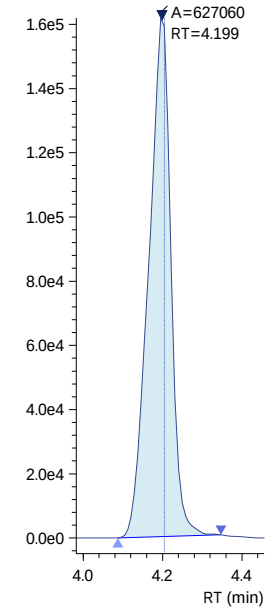
R1 327.00>81.10 (-) 4.62e2



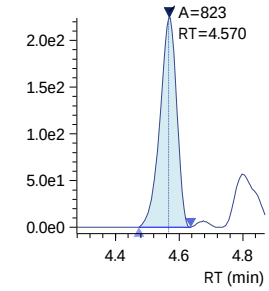
4_2-FTS-13C
Conc 5.6963
Q 328.80>309.05 (-) 1.62e5



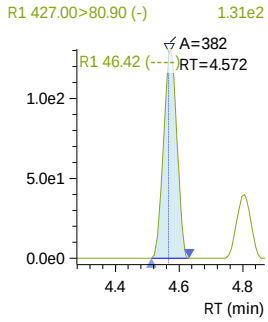
4_2-FTS-13C_IS
Conc 5.0000
ISTD 328.80>309.05 (-) 1.62e5



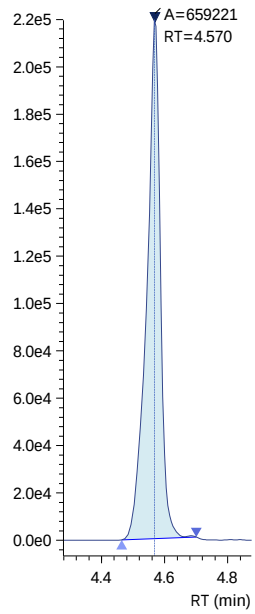
6_2-FTS_1
Conc 0.0048
R#1 46.42 (37.36)
Q 427.00>407.00 (-) 2.24e2



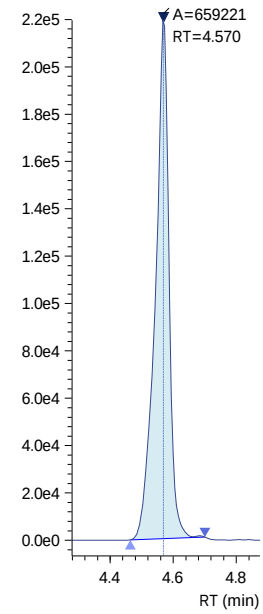
R1 427.00>80.90 (-) 1.31e2



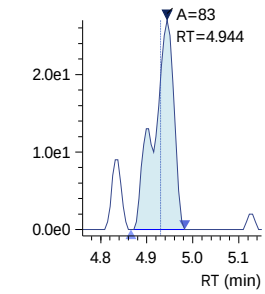
6_2-FTS-13C
Conc 7.0879
Q 428.90>409.00 (-) 2.20e5



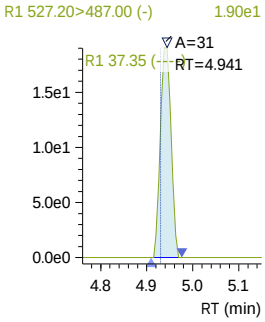
6_2-FTS-13C_IS
Conc 5.0000
ISTD 428.90>409.00 (-) 2.20e5



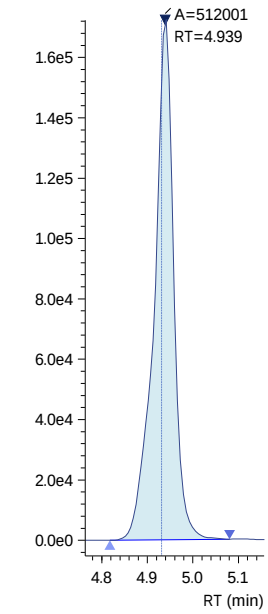
8_2-FTS_1
Conc 0.0008
R#1 37.35 (10.63)
Q 527.10>506.90 (-) 2.70e1



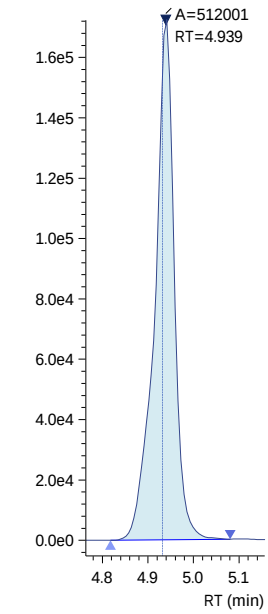
R1 527.20>487.00 (-) 1.90e1



8_2-FTS-13C
Conc 7.5727
Q 528.80>509.00 (-) 1.72e5

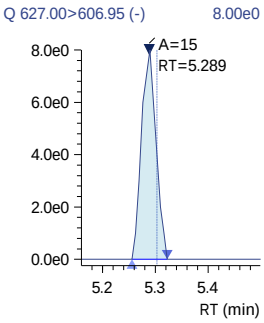


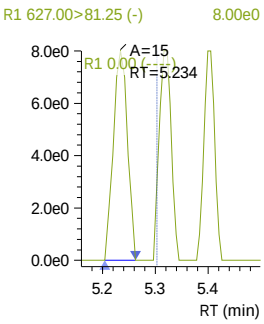
8_2-FTS-13C_IS
Conc 5.0000
ISTD 528.80>509.00 (-) 1.72e5



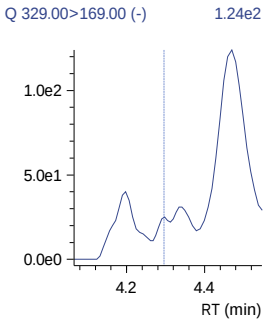
210914_016 (continued)

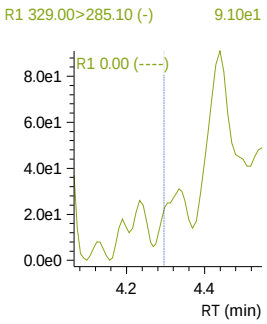
10_2-FtS_1
Conc 0.0002
R#1 0.00 (21.61)



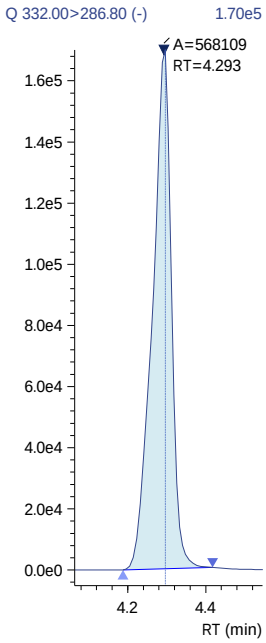


HPFO_DA
Conc ----
R#1 0.00 (106.46)

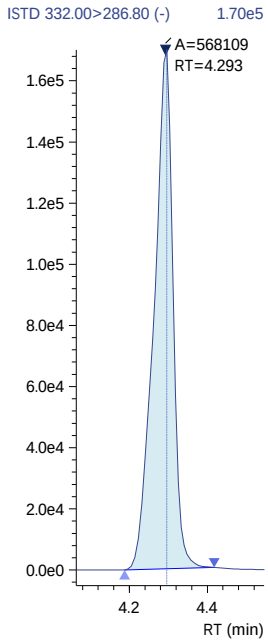




HFPO_DA-13C
Conc 5.6988



HFPO_DA-13C_IS
Conc 5.0000



1st UA 08/30/21
2nd [illegible] 08/31/21

Validation Report

Data File: J:\LCMS06\Data\210823_B3\210823_007
Lab ID: KQ2116601-03
RunType: CCV
Matrix: Soil

Date Acquired: 8/23/21 16:49
Batch ID: 736760
Analysis Method: PFC/537M/PFAS

Validations

Validation Categories	Pass	Fail
ICAL Analyte Recovery	X	
Second Source ICAL Verification	X	
Internal Standards	X	
Above Highest ICAL Level	X	

Primary Review: _____

Secondary Review: _____

1st UA 08/30/21
2nd [redacted] 08/31/21

Validation Report

Data File: J:\LCMS06\Data\210823_B3\210823_007
Lab ID: KQ2116601-01
RunType: CCV
Matrix: Water

Date Acquired: 8/23/21 16:49
Batch ID: 736760
Analysis Method: PFC/537M/PFAS

Validations

Validation Categories	Pass	Fail
ICAL Analyte Recovery	X	
Second Source ICAL Verification	X	
Internal Standards	X	
Above Highest ICAL Level	X	

Primary Review: _____

Printed: 8/31/21 15:34
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Secondary Review: _____

1st UA 08/30/21
2nd 08/31/21

Quantitation Report

Data File:	J:\LCMS06\Data\210823_B3\210823_007	**Instrument:**	K-LCMS-06
Acqu Date:	8/23/21 16:49	**Vial:**	26
Run Type:	CCV	**Dilution:**	1
Lab ID:	KQ2116601-03	**Raw Units:**	ng/mL

Bottle ID:		**Tier:**	II	**Matrix:**	Soil
Prod Code:	PFAS	**Collect Date:**	7/29/21	**Receive Date:**	7/30/21

Analysis Lot:	736760	**Prep Lot:**		**Report Group:**	KQ2116601
Analysis	PFC/537M	**Prep Method:**			
		Prep Date:			

Title:	Per- and Polyfluoroalkyl Substances (PFAS) by LC/MS/MS	**Calibration ID:**	KC2100446
		Report List ID:	19837

Internal Standard Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	Area Criteria
13C7-PFUnDA	5.133		3458834	5.0000	OK

Surrogate Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	Rpt?
13C3-PFBS	4.031		363411	5.0894	Y
18O2-PFHxS	4.416		302915	6.2215	Y
13C4-PFOS	4.750		339894	5.6170	Y
13C4-PFBA	3.419		1715885	6.0739	Y
13C5-PFPeA	3.977		1120154	6.0168	Y
13C2-PFHxA	4.234		2742119	5.3495	Y
13C4-PFHpA	4.416		3004262	5.7726	Y
13C4-PFOA	4.585		2777718	4.7944	Y
13C5-PFNA	4.762		2159947	4.8873	Y
13C2-PFDA	4.947		1729375	5.2941	Y
13C2-PFUnDA	5.133		2199177	5.0529	Y
13C2-PFDoDA	5.312		2309445	4.8441	Y
13C2-PFTeDA	5.634		1685219	5.2233	Y
13C8-FOSA	5.232		1037281	5.0486	Y
D3-MeFOSA	5.623		275245	5.7614	Y
D5-EtFOSA	5.750		309011	5.6928	Y
D7-MeFOSE	5.598		254629	5.3298	Y
D9-EtFOSE	5.721		304333	6.1529	Y
13C2-6:2 FTS	4.576		328770	4.3783	Y
13C2-8:2 FTS	4.945		219851	5.5008	Y

Target Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	Rpt?

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

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1st UA 08/30/21
2nd ~~[illegible]~~ 08/31/21

Data File:	J:\LCMS06\Data\210823_B3\210823_007	**Instrument:**	K-LCMS-06
Acqu Date:	8/23/21 16:49	**Vial:**	26
Run Type:	CCV	**Dilution:**	1
Lab ID:	KQ2116601-03	**Raw Units:**	ng/mL

Target Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	Rpt?
Perfluorobutane sulfonic acid (PFBS)	4.032		132881	1.0142	Y
Perfluorohexane sulfonic acid (PFHxS)	4.412		93001	0.9025	Y
Perfluoroheptane sulfonic acid (PFHpS)	4.579		105055	0.8263	Y
Perfluorooctane sulfonic acid (PFOS)	4.750		60124	0.9403	Y
Perfluorodecane sulfonic acid (PFDS)	5.113		82305	0.9910	Y
Perfluorobutanoic acid (PFBA)	3.420		441242	1.0473	Y
Perfluoropentanoic acid (PFPeA)	3.977		705291	0.9900	Y
Perfluorohexanoic acid (PFHxA)	4.234		816575	1.0991	Y
Perfluoroheptanoic acid (PFHpA)	4.416		652353	0.9986	Y
Perfluorooctanoic acid (PFOA)	4.585		862454	1.0102	Y
Perfluorononanoic acid (PFNA)	4.761		529929	0.9939	Y
Perfluorodecanoic acid (PFDA)	4.946		544755	1.0531	Y
Perfluoroundecanoic acid (PFUnDA)	5.133		535728	1.0198	Y
Perfluorododecanoic acid (PFDoDA)	5.312		509668	1.1342	Y
Perfluorotridecanoic acid (PFTrDA)	5.482		525984	1.0512	Y
Perfluorotetradecanoic acid (PFTeDA)	5.634		370111	0.9769	Y
Perfluorooctane sulfonamide (FOSA)	5.232		279400	1.0598	Y
N-Methyl perfluorooctane sulfonamide (MeFOSA)	5.625		106384	1.0325	Y
N-Ethyl perfluorooctane sulfonamide (EtFOSA)	5.755		19188	0.9909	Y
N-Methyl perfluorooctane sulfonamidoethanol	5.607		139485	1.2509	Y
N-Ethyl perfluorooctane sulfonamidoethanol	5.731		142618	1.0241	Y
6:2 Fluorotelomer sulfonic acid (6:2 FTS)	4.574		103063	1.1270	Y
8:2 Fluorotelomer sulfonic acid (8:2 FTS)	4.944		52085	1.0186	Y

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Quantitation Report

Data File:	J:\LCMS06\Data\210823_B3\210823_007	**Instrument:**	K-LCMS-06
Acqu Date:	8/23/21 16:49	**Vial:**	26
Run Type:	CCV	**Dilution:**	1
Lab ID:	KQ2116601-03	**Raw Units:**	ng/mL

Bottle ID:		**Tier:**	II	**Matrix:**	Soil
Prod Code:	PFAS	**Collect Date:**	7/29/21	**Receive Date:**	7/30/21

Analysis Lot:	736760	**Prep Lot:**		**Report Group:**	KQ2116601
Analysis	PFC/537M	**Prep Method:**			
		Prep Date:			

Title:	Per- and Polyfluoroalkyl Substances (PFAS) by LC/MS/MS	**Calibration ID:**	KC2100446
		Report List ID:	20091

Internal Standard Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	Area Criteria
13C7-PFUnDA	5.133		3458834	5.0000	OK

Surrogate Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	Rpt?
13C3-PFBS	4.031		363411	5.0894	Y
18O2-PFHxS	4.416		302915	6.2215	Y
13C4-PFOS	4.750		339894	5.6170	Y
13C4-PFBA	3.419		1715885	6.0739	Y
13C5-PFPeA	3.977		1120154	6.0168	Y
13C2-PFHxA	4.234		2742119	5.3495	Y
13C4-PFHpA	4.416		3004262	5.7726	Y
13C4-PFOA	4.585		2777718	4.7944	Y
13C5-PFNA	4.762		2159947	4.8873	Y
13C2-PFDA	4.947		1729375	5.2941	Y
13C2-PFUnDA	5.133		2199177	5.0529	Y
13C2-PFDoDA	5.312		2309445	4.8441	Y
13C2-PFTeDA	5.634		1685219	5.2233	Y
13C8-FOSA	5.232		1037281	5.0486	Y
D3-MeFOSA	5.623		275245	5.7614	Y
D5-EtFOSA	5.750		309011	5.6928	Y
D7-MeFOSE	5.598		254629	5.3298	Y
D9-EtFOSE	5.721		304333	6.1529	Y
D3-MeFOSAA	5.045		196396	5.0404	Y
D5-EtFOSAA	5.144		176193	4.8574	Y
13C2-4:2 FTS	4.208		678409	8.5351	Y
13C2-6:2 FTS	4.576		328770	4.3783	Y
13C2-8:2 FTS	4.945		219851	5.5008	Y
13C3-HFPO-DA	4.301		529494	5.9247	Y

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

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Data File:	J:\LCMS06\Data\210823_B3\210823_007	**Instrument:**	K-LCMS-06
Acqu Date:	8/23/21 16:49	**Vial:**	26
Run Type:	CCV	**Dilution:**	1
Lab ID:	KQ2116601-03	**Raw Units:**	ng/mL

Target Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	Rpt?
Perfluorobutane sulfonic acid (PFBS)	4.032		132881	1.0142	Y
Perfluoropentane sulfonic acid (PFPeS)	4.250		66130	0.9273	Y
Perfluorohexane sulfonic acid (PFHxS)	4.412		93001	0.9025	Y
Perfluoroheptane sulfonic acid (PFHpS)	4.579		105055	0.8263	Y
Perfluorooctane sulfonic acid (PFOS)	4.750		60124	0.9403	Y
Perfluorononane sulfonic acid (PFNS)	4.931		57270	0.9904	Y
Perfluorodecane sulfonic acid (PFDS)	5.113		82305	0.9910	Y
Perfluorobutanoic acid (PFBA)	3.420		441242	1.0473	Y
Perfluoropentanoic acid (PFPeA)	3.977		705291	0.9900	Y
Perfluorohexanoic acid (PFHxA)	4.234		816575	1.0991	Y
Perfluoroheptanoic acid (PFHpA)	4.416		652353	0.9986	Y
Perfluorooctanoic acid (PFOA)	4.585		862454	1.0102	Y
Perfluorononanoic acid (PFNA)	4.761		529929	0.9939	Y
Perfluorodecanoic acid (PFDA)	4.946		544755	1.0531	Y
Perfluoroundecanoic acid (PFUnDA)	5.133		535728	1.0198	Y
Perfluorododecanoic acid (PFDoDA)	5.312		509668	1.1342	Y
Perfluorotridecanoic acid (PFTrDA)	5.482		525984	1.0512	Y
Perfluorotetradecanoic acid (PFTeDA)	5.634		370111	0.9769	Y
Perfluorooctane sulfonamide (FOSA)	5.232		279400	1.0598	Y
N-Methyl perfluorooctane sulfonamide (MeFOSA)	5.625		106384	1.0325	Y
N-Ethyl perfluorooctane sulfonamide (EtFOSA)	5.755		19188	0.9909	Y
N-Methyl perfluorooctane sulfonamidoethanol	5.607		139485	1.2509	Y
N-Ethyl perfluorooctane sulfonamidoethanol	5.731		142618	1.0241	Y
N-Methyl perfluorooctane sulfonamidoacetic acid	5.047		41303	1.1188	Y
N-Ethyl perfluorooctane sulfonamidoacetic acid	5.148		38973	1.2703	Y
4:2 Fluorotelomer sulfonic acid (4:2 FTS)	4.207		141058	1.0378	Y
6:2 Fluorotelomer sulfonic acid (6:2 FTS)	4.574		103063	1.1270	Y
8:2 Fluorotelomer sulfonic acid (8:2 FTS)	4.944		52085	1.0186	Y
10:2 Fluorotelomer sulfonic acid (10:2 FTS)	5.317		37334	1.0554	Y
Hexafluoropropylene oxide dimer acid (HFPO-DA)	4.301		97076	1.0079	Y

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

1st UA 08/30/21
2nd 08/31/21

Quantitation Report

Data File:	J:\LCMS06\Data\210823_B3\210823_007	**Instrument:**	K-LCMS-06
Acqu Date:	8/23/21 16:49	**Vial:**	1
Run Type:	CCV	**Dilution:**	1
Lab ID:	KQ2116601-01	**Raw Units:**	ng/mL

Bottle ID:		**Tier:**	II	**Matrix:**	Water
Prod Code:	PFAS	**Collect Date:**	8/2/21	**Receive Date:**	8/4/21

Analysis Lot:	736760	**Prep Lot:**		**Report Group:**	KQ2116601
Analysis	PFC/537M	**Prep Method:**			
		Prep Date:			

Title:	Per- and Polyfluoroalkyl Substances (PFAS) by LC/MS/MS	**Calibration ID:**	KC2100446
		Report List ID:	20091

Internal Standard Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	Area Criteria
13C7-PFUnDA	5.133		3458834	5.0000	OK

Surrogate Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	Rpt?
13C3-PFBS	4.031		363411	5.0894	Y
18O2-PFHxS	4.416		302915	6.2215	Y
13C4-PFOS	4.750		339894	5.6170	Y
13C4-PFBA	3.419		1715885	6.0739	Y
13C5-PFPeA	3.977		1120154	6.0168	Y
13C2-PFHxA	4.234		2742119	5.3495	Y
13C4-PFHpA	4.416		3004262	5.7726	Y
13C4-PFOA	4.585		2777718	4.7944	Y
13C5-PFNA	4.762		2159947	4.8873	Y
13C2-PFDA	4.947		1729375	5.2941	Y
13C2-PFUnDA	5.133		2199177	5.0529	Y
13C2-PFDoDA	5.312		2309445	4.8441	Y
13C2-PFTeDA	5.634		1685219	5.2233	Y
13C8-FOSA	5.232		1037281	5.0486	Y
D3-MeFOSA	5.623		275245	5.7614	Y
D5-EtFOSA	5.750		309011	5.6928	Y
D7-MeFOSE	5.598		254629	5.3298	Y
D9-EtFOSE	5.721		304333	6.1529	Y
D3-MeFOSAA	5.045		196396	5.0404	Y
D5-EtFOSAA	5.144		176193	4.8574	Y
13C2-4:2 FTS	4.208		678409	8.5351	Y
13C2-6:2 FTS	4.576		328770	4.3783	Y
13C2-8:2 FTS	4.945		219851	5.5008	Y
13C3-HFPO-DA	4.301		529494	5.9247	Y

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E: Analyte concentration above high point of ICAL
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D: Result from dilution
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1st UA 08/30/21
2nd 08/31/21

Data File:	J:\LCMS06\Data\210823_B3\210823_007	**Instrument:**	K-LCMS-06
Acqu Date:	8/23/21 16:49	**Vial:**	1
Run Type:	CCV	**Dilution:**	1
Lab ID:	KQ2116601-01	**Raw Units:**	ng/mL

Target Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	Rpt?
Perfluorobutane sulfonic acid (PFBS)	4.032		132881	1.0142	Y
Perfluoropentane sulfonic acid (PFPeS)	4.250		66130	0.9273	Y
Perfluorohexane sulfonic acid (PFHxS)	4.412		93001	0.9025	Y
Perfluoroheptane sulfonic acid (PFHpS)	4.579		105055	0.8263	Y
Perfluorooctane sulfonic acid (PFOS)	4.750		60124	0.9403	Y
Perfluorononane sulfonic acid (PFNS)	4.931		57270	0.9904	Y
Perfluorodecane sulfonic acid (PFDS)	5.113		82305	0.9910	Y
Perfluorobutanoic acid (PFBA)	3.420		441242	1.0473	Y
Perfluoropentanoic acid (PFPeA)	3.977		705291	0.9900	Y
Perfluorohexanoic acid (PFHxA)	4.234		816575	1.0991	Y
Perfluoroheptanoic acid (PFHpA)	4.416		652353	0.9986	Y
Perfluorooctanoic acid (PFOA)	4.585		862454	1.0102	Y
Perfluorononanoic acid (PFNA)	4.761		529929	0.9939	Y
Perfluorodecanoic acid (PFDA)	4.946		544755	1.0531	Y
Perfluoroundecanoic acid (PFUnDA)	5.133		535728	1.0198	Y
Perfluorododecanoic acid (PFDoDA)	5.312		509668	1.1342	Y
Perfluorotridecanoic acid (PFTrDA)	5.482		525984	1.0512	Y
Perfluorotetradecanoic acid (PFTeDA)	5.634		370111	0.9769	Y
Perfluorooctane sulfonamide (FOSA)	5.232		279400	1.0598	Y
N-Methyl perfluorooctane sulfonamide (MeFOSA)	5.625		106384	1.0325	Y
N-Ethyl perfluorooctane sulfonamide (EtFOSA)	5.755		19188	0.9909	Y
N-Methyl perfluorooctane sulfonamidoethanol	5.607		139485	1.2509	Y
N-Ethyl perfluorooctane sulfonamidoethanol	5.731		142618	1.0241	Y
N-Methyl perfluorooctane sulfonamidoacetic acid	5.047		41303	1.1188	Y
N-Ethyl perfluorooctane sulfonamidoacetic acid	5.148		38973	1.2703	Y
4:2 Fluorotelomer sulfonic acid (4:2 FTS)	4.207		141058	1.0378	Y
6:2 Fluorotelomer sulfonic acid (6:2 FTS)	4.574		103063	1.1270	Y
8:2 Fluorotelomer sulfonic acid (8:2 FTS)	4.944		52085	1.0186	Y
10:2 Fluorotelomer sulfonic acid (10:2 FTS)	5.317		37334	1.0554	Y
Hexafluoropropylene oxide dimer acid (HFPO-DA)	4.301		97076	1.0079	Y

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c: check for co-elution

Insight Report
Ion Ratio Confirmation
Printed 8/27/2021 17:48:55

210823_007

Sample ID: PFC CCV @ 1.0ppb
Date Acquired: 8/23/2021 4:49:19 PM
Acquired by: System Administrator
Data File: 210823_007
Vial: 4 | Inj. Volume: 15.0000uL | Tray: 0

Name	m/z	Ref 1 m/z	Area	Ref 1 Measured	Ref 1 Actual Ratio	Ref 1 Set Ratio	Comment 1	Flag ID
13C7-PFUnDA_IS	570.00>525.00	----	3458834	----	----	----		
PFBS_1	299.00>80.00	298.80>99.00	132881	66383	49.96	47.76	23.88-71.64	
PFBS-13C	301.80>80.00	----	363411	----	----	----	0-0	
PFBS-13C_IS	301.80>80.00	----	363411	----	----	----	0-0	
PFPeS	349.00>99.00	349.00>79.95	66130	96871	146.49	136.08	68.04-204.13	
PFHxS_1	399.00>80.00	399.00>99.00	93001	65945	70.91	71.26	35.63-106.89	
PFHxS-18O	402.70>84.05	----	302915	----	----	----	0-0	
PFHxS-18O_IS	402.70>84.05	----	302915	----	----	----	0-0	
PFHpS_1	449.00>80.15	449.00>99.20	105055	61726	58.76	53.84	26.92-80.76	
PFOS_1	499.00>80.00	499.00>99.00	60124	50800	84.49	86.72	43.36-130.08	
PFOS-13C	502.80>80.05	----	339894	----	----	----	0-0	
PFOS-13C_IS	502.80>80.05	----	339894	----	----	----	0-0	
PFNS	549.00>99.00	549.00>79.95	57270	74443	129.99	129.18	64.59-193.78	
PFDS_1	599.00>79.90	599.00>99.10	82305	69803	84.81	90.77	45.38-136.15	
PFBA	213.00>169.10	----	441242	----	----	----		
PFBA-13C	216.90>172.15	----	1715885	----	----	----		
PFBA-13C_IS	216.90>172.15	----	1715885	----	----	----		
PFPeA	263.05>219.10	----	705291	----	----	----		
PFPeA-13C	267.90>223.00	----	1120154	----	----	----	0-0	
PFPeA-13C_IS	267.90>223.00	----	1120154	----	----	----	0-0	
PFHxA	313.00>269.00	313.00>119.10	816575	36492	4.47	4.17	2.08-6.25	
PFHxA-13C	314.90>270.10	----	2742119	----	----	----	0-0	
PFHxA-13C_IS	314.90>270.10	----	2742119	----	----	----	0-0	
PFHpA	362.90>319.00	362.90>169.00	652353	162308	24.88	26.04	13.02-39.07	
PFHpA-13C	366.90>322.10	----	3004262	----	----	----	0-0	
PFHpA-13C_IS	366.90>322.10	----	3004262	----	----	----	0-0	
PFOA	413.00>369.00	413.00>169.10	862454	272263	31.57	30.35	15.18-45.53	
PFOA-13C	416.80>372.05	----	2777718	----	----	----	0-0	
PFOA-13C_IS	416.80>372.05	----	2777718	----	----	----	0-0	
PFNA	463.00>418.90	463.00>219.00	529929	128984	24.34	22.35	11.18-33.53	
PFNA-13C	467.80>423.00	----	2159947	----	----	----	0-0	
PFNA-13C_IS	467.80>423.00	----	2159947	----	----	----	0-0	
PFDA	513.00>468.80	513.00>219.10	544755	98713	18.12	18.73	9.36-28.09	
PFDA-13C	514.80>469.95	----	1729375	----	----	----	0-0	
PFDA-13C_IS	514.80>469.95	----	1729375	----	----	----	0-0	
PFUnA	563.00>518.90	563.00>219.00	535728	68046	12.70	11.60	5.8-17.4	
PFUnA-13C	564.80>519.95	----	2199177	----	----	----	0-0	
PFUnA-13C_IS	564.80>519.95	----	2199177	----	----	----	0-0	
PFDoA	613.05>569.00	613.05>169.00	509668	72712	14.27	15.11	7.55-22.66	
PFDoA-13C	614.80>569.95	----	2309445	----	----	----	0-0	
PFDoA-13C_IS	614.80>569.95	----	2309445	----	----	----	0-0	
PFTrDA	663.00>618.90	662.90>169.00	525984	72783	13.84	14.19	7.09-21.28	
PFTeDA	713.00>669.00	713.00>169.10	370111	57451	15.52	14.98	7.49-22.46	
PFTeDA-13C	714.70>669.90	----	1685219	----	----	----	0-0	
PFTeDA-13C_IS	714.70>669.90	----	1685219	----	----	----	0-0	
FOSA	498.20>78.00	498.20>64.10	279400	15554	5.57	4.89	2.44-7.33	
FOSA-13C	506.00>78.05	----	1037281	----	----	----	0-0	
FOSA-13C_IS	506.00>78.05	----	1037281	----	----	----	0-0	
N-MeFOSA	512.00>169.10	512.00>219.00	106384	70850	66.60	62.72	31.36-94.08	
N-MeFOSA-d3	514.90>168.90	----	275245	----	----	----	0-0	

J:\LCMS06\Data\210823_B3\210823_B3.DAMLP .

Comment 1 field specifies acceptance range for Ref 1 ratio.
IRr - Ion ratio outside criteria. Exceedances for results above the MDL to be "K" flagged in the analytical report.

Insight Report
Ion Ratio Confirmation
Printed 8/27/2021 17:48:55

210823_007 (continued)

(Table continued from previous page)

Name	m/z	Ref 1 m/z	Area	Ref 1 Measured	Ref 1 Actual Ratio	Ref 1 Set Ratio	Comment 1	Flag ID
N-MeFOSA-d3_IS	514.90>168.90	----	275245	----	----	----	0-0	
N-EtFOSA	526.90>169.10	526.90>219.00	19188	13108	68.31	63.35	31.68-95.03	
N-EtFOSA-d9	530.90>169.15	----	309011	----	----	----	0-0	
N-EtFOSA-d9_IS	530.90>169.15	----	309011	----	----	----	0-0	
N-MeFOSE	616.00>59.00	----	139485	----	----	----		
N-MeFOSE-d7	622.70>59.10	----	254629	----	----	----		
N-MeFOSE-d7_IS	622.70>59.10	----	254629	----	----	----		
N-EtFOSE	630.00>58.90	----	142618	----	----	----		
N-EtFOSE-d9	638.70>59.10	----	304333	----	----	----	0-0	
N-EtFOSE-d9_IS	638.70>59.10	----	304333	----	----	----	0-0	
N-MeFOSAA	570.20>419.00	570.20>512.00	41303	16464	39.86	35.26	17.63-52.88	
N-MeFOSAA-d3	572.80>419.05	----	196396	----	----	----	0-0	
N-MeFOSAA-d3_IS	572.80>419.05	----	196396	----	----	----	0-0	
N-EtFOSAA	584.20>418.95	584.20>526.10	38973	25130	64.48	77.25	38.62-115.87	
N-EtFOSAA-d5	588.80>419.00	----	176193	----	----	----	0-0	
N-EtFOSAA-d5_IS	588.80>419.00	----	176193	----	----	----	0-0	
4_2-FTS_1	327.00>307.05	327.00>81.10	141058	38355	27.19	39.85	19.92-59.77	
4_2-FTS-13C	328.80>309.05	----	678409	----	----	----	0-0	
4_2-FTS-13C_IS	328.80>309.05	----	678409	----	----	----	0-0	
6_2-FTS_1	427.00>407.00	427.00>80.90	103063	30798	29.88	29.95	14.97-44.92	
6_2-FTS-13C	428.90>409.00	----	328770	----	----	----	0-0	
6_2-FTS-13C_IS	428.90>409.00	----	328770	----	----	----	0-0	
8_2-FTS_1	527.10>506.90	527.20>487.00	52085	5137	9.86	9.42	4.71-14.13	
8_2-FTS-13C	528.80>509.00	----	219851	----	----	----	0-0	
8_2-FTS-13C_IS	528.80>509.00	----	219851	----	----	----	0-0	
10_2-FtS_1	627.00>606.95	627.00>81.25	37334	17480	46.82	49.86	24.93-74.78	
HPFO_DA	329.00>169.00	329.00>285.10	97076	101900	104.97	101.52	50.76-152.28	
HFPO_DA-13C	332.00>286.80	----	529494	----	----	----		
HFPO_DA-13C_IS	332.00>286.80	----	529494	----	----	----		

Comment 1 field specifies acceptance range for Ref 1 ratio.
IRr - Ion ratio outside criteria. Exceedances for results above the MDL to be "K" flagged in the analytical report.

Insight Report
Quantitation/Integration
Printed 8/30/2021 19:23:48

210823_007

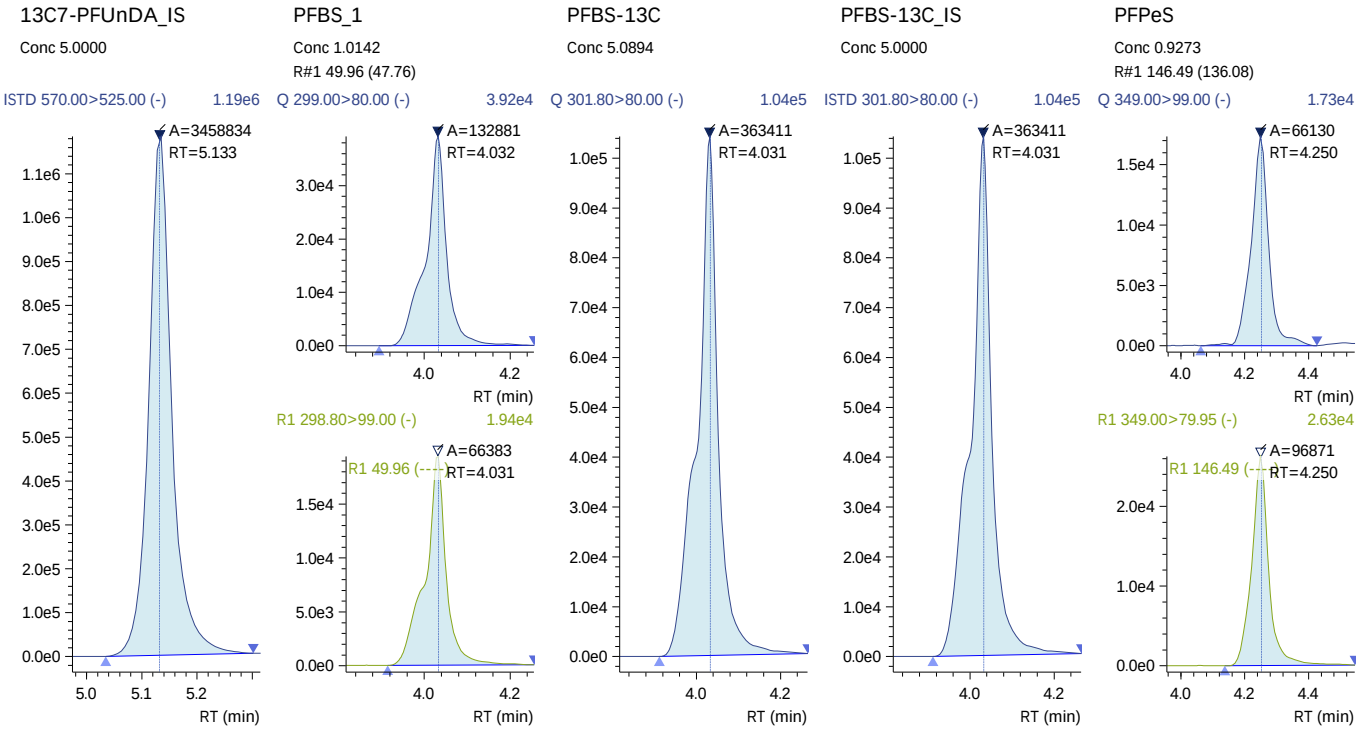
Sample ID: PFC CCV @ 1.0ppb
Date Acquired: 8/23/2021 4:49:19 PM
Acquired by: System Administrator
Data File: 210823_007
Vial: 4 | Inj. Volume: 15.0000uL | Tray: 0

Name	Mode ID	Found RT	Area	ISTD Area	ISTD Name	Std. Conc.	Conc.	Unit
13C7-PFUnDA_IS	Auto	5.133	3458834	3458834	----	----	5.0000	ng/mL
PFBS_1	Auto	4.032	132881	363411	PFBS-13C_IS	----	1.0142	ng/mL
PFBS-13C	Auto	4.031	363411	3458834	13C7-PFUnDA_IS	----	5.0894	ng/mL
PFBS-13C_IS	Auto	4.031	363411	363411	----	----	5.0000	ng/mL
PFPeS	Auto	4.250	66130	363411	PFBS-13C_IS	----	0.9273	ng/mL
PFHxS_1	Auto	4.412	93001	302915	PFHxS-18O_IS	----	0.9025	ng/mL
PFHxS-18O	Auto	4.416	302915	3458834	13C7-PFUnDA_IS	----	6.2215	ng/mL
PFHxS-18O_IS	Auto	4.416	302915	302915	----	----	5.0000	ng/mL
PFHpS_1	Auto	4.579	105055	302915	PFHxS-18O_IS	----	0.8263	ng/mL
PFOS_1	Auto	4.750	60124	339894	PFOS-13C_IS	----	0.9403	ng/mL
PFOS-13C	Auto	4.750	339894	3458834	13C7-PFUnDA_IS	----	5.6170	ng/mL
PFOS-13C_IS	Auto	4.750	339894	339894	----	----	5.0000	ng/mL
PFNS	Auto	4.931	57270	339894	PFOS-13C_IS	----	0.9904	ng/mL
PFDS_1	Auto	5.113	82305	339894	PFOS-13C_IS	----	0.9910	ng/mL
PFBA	Auto	3.420	441242	1715885	PFBA-13C_IS	----	1.0473	ng/mL
PFBA-13C	Auto	3.419	1715885	3458834	13C7-PFUnDA_IS	----	6.0739	ng/mL
PFBA-13C_IS	Auto	3.419	1715885	1715885	----	----	5.0000	ng/mL
PFPeA	Auto	3.977	705291	1120154	PFPeA-13C_IS	----	0.9900	ng/mL
PFPeA-13C	Auto	3.977	1120154	3458834	13C7-PFUnDA_IS	----	6.0168	ng/mL
PFPeA-13C_IS	Auto	3.977	1120154	1120154	----	----	5.0000	ng/mL
PFHxA	Auto	4.234	816575	2742119	PFHxA-13C_IS	----	1.0991	ng/mL
PFHxA-13C	Auto	4.234	2742119	3458834	13C7-PFUnDA_IS	----	5.3495	ng/mL
PFHxA-13C_IS	Auto	4.234	2742119	2742119	----	----	5.0000	ng/mL
PFHpA	Auto	4.416	652353	3004262	PFHpA-13C_IS	----	0.9986	ng/mL
PFHpA-13C	Auto	4.416	3004262	3458834	13C7-PFUnDA_IS	----	5.7726	ng/mL
PFHpA-13C_IS	Auto	4.416	3004262	3004262	----	----	5.0000	ng/mL
PFOA	Auto	4.585	862454	2777718	PFOA-13C_IS	----	1.0102	ng/mL
PFOA-13C	Auto	4.585	2777718	3458834	13C7-PFUnDA_IS	----	4.7944	ng/mL
PFOA-13C_IS	Auto	4.585	2777718	2777718	----	----	5.0000	ng/mL
PFNA	Auto	4.761	529929	2159947	PFNA-13C_IS	----	0.9939	ng/mL
PFNA-13C	Auto	4.762	2159947	3458834	13C7-PFUnDA_IS	----	4.8873	ng/mL
PFNA-13C_IS	Auto	4.762	2159947	2159947	----	----	5.0000	ng/mL
PFDA	Auto	4.946	544755	1729375	PFDA-13C_IS	----	1.0531	ng/mL
PFDA-13C	Auto	4.947	1729375	3458834	13C7-PFUnDA_IS	----	5.2941	ng/mL
PFDA-13C_IS	Auto	4.947	1729375	1729375	----	----	5.0000	ng/mL
PFUnA	Auto	5.133	535728	2199177	PFUnA-13C_IS	----	1.0198	ng/mL
PFUnA-13C	Auto	5.133	2199177	3458834	13C7-PFUnDA_IS	----	5.0529	ng/mL
PFUnA-13C_IS	Auto	5.133	2199177	2199177	----	----	5.0000	ng/mL
PFDoA	Auto	5.312	509668	2309445	PFDoA-13C_IS	----	1.1342	ng/mL
PFDoA-13C	Auto	5.312	2309445	3458834	13C7-PFUnDA_IS	----	4.8441	ng/mL
PFDoA-13C_IS	Auto	5.312	2309445	2309445	----	----	5.0000	ng/mL
PFTrDA	Auto	5.482	525984	1685219	PFTeDA-13C_IS	----	1.0512	ng/mL
PFTeDA	Auto	5.634	370111	1685219	PFTeDA-13C_IS	----	0.9769	ng/mL
PFTeDA-13C	Auto	5.634	1685219	3458834	13C7-PFUnDA_IS	----	5.2233	ng/mL
PFTeDA-13C_IS	Auto	5.634	1685219	1685219	----	----	5.0000	ng/mL
FOSA	Auto	5.232	279400	1037281	FOSA-13C_IS	----	1.0598	ng/mL
FOSA-13C	Auto	5.232	1037281	3458834	13C7-PFUnDA_IS	----	5.0486	ng/mL
FOSA-13C_IS	Auto	5.232	1037281	1037281	----	----	5.0000	ng/mL
N-MeFOSA	M	5.625	106384	275245	N-MeFOSA-d3_IS	----	1.0325	ng/mL
N-MeFOSA-d3	Auto	5.623	275245	3458834	13C7-PFUnDA_IS	----	5.7614	ng/mL
N-MeFOSA-d3_IS	Auto	5.623	275245	275245	----	----	5.0000	ng/mL
N-EtFOSA	M	5.755	19188	309011	N-EtFOSA-d9_IS	----	0.9909	ng/mL
N-EtFOSA-d9	Auto	5.750	309011	3458834	13C7-PFUnDA_IS	----	5.6928	ng/mL
N-EtFOSA-d9_IS	Auto	5.750	309011	309011	----	----	5.0000	ng/mL

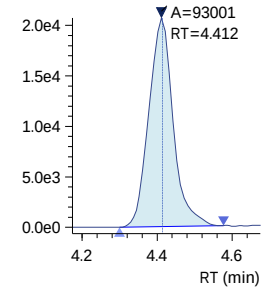
210823_007 (continued)

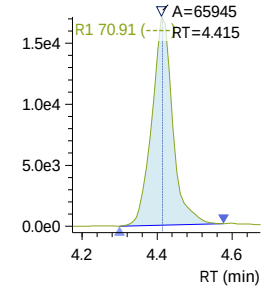
(Table continued from previous page)

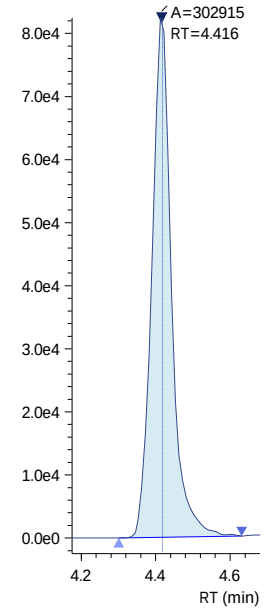
Name	Mode ID	Found RT	Area	ISTD Area	ISTD Name	Std. Conc.	Conc.	Unit
N-MeFOSE	Auto	5.607	139485	254629	N-MeFOSE-d7_IS	----	1.2509	ng/mL
N-MeFOSE-d7	Auto	5.598	254629	3458834	13C7-PFUnDA_IS	----	5.3298	ng/mL
N-MeFOSE-d7_IS	Auto	5.598	254629	254629	----	----	5.0000	ng/mL
N-EtFOSE	Auto	5.731	142618	304333	N-EtFOSE-d9_IS	----	1.0241	ng/mL
N-EtFOSE-d9	Auto	5.721	304333	3458834	13C7-PFUnDA_IS	----	6.1529	ng/mL
N-EtFOSE-d9_IS	Auto	5.721	304333	304333	----	----	5.0000	ng/mL
N-MeFOSAA	Auto	5.047	41303	196396	N-MeFOSAA-d3_IS	----	1.1188	ng/mL
N-MeFOSAA-d3	Auto	5.045	196396	3458834	13C7-PFUnDA_IS	----	5.0404	ng/mL
N-MeFOSAA-d3_IS	Auto	5.045	196396	196396	----	----	5.0000	ng/mL
N-EtFOSAA	Auto	5.148	38973	176193	N-EtFOSAA-d5_IS	----	1.2703	ng/mL
N-EtFOSAA-d5	Auto	5.144	176193	3458834	13C7-PFUnDA_IS	----	4.8574	ng/mL
N-EtFOSAA-d5_IS	Auto	5.144	176193	176193	----	----	5.0000	ng/mL
4_2-FTS_1	Auto	4.207	141058	678409	4_2-FTS-13C_IS	----	1.0378	ng/mL
4_2-FTS-13C	Auto	4.208	678409	3458834	13C7-PFUnDA_IS	----	8.5351	ng/mL
4_2-FTS-13C_IS	Auto	4.208	678409	678409	----	----	5.0000	ng/mL
6_2-FTS_1	Auto	4.574	103063	328770	6_2-FTS-13C_IS	----	1.1270	ng/mL
6_2-FTS-13C	Auto	4.576	328770	3458834	13C7-PFUnDA_IS	----	4.3783	ng/mL
6_2-FTS-13C_IS	Auto	4.576	328770	328770	----	----	5.0000	ng/mL
8_2-FTS_1	Auto	4.944	52085	219851	8_2-FTS-13C_IS	----	1.0186	ng/mL
8_2-FTS-13C	Auto	4.945	219851	3458834	13C7-PFUnDA_IS	----	5.5008	ng/mL
8_2-FTS-13C_IS	Auto	4.945	219851	219851	----	----	5.0000	ng/mL
10_2-FtS_1	Auto	5.317	37334	219851	8_2-FTS-13C_IS	----	1.0554	ng/mL
HPFO_DA	Auto	4.301	97076	529494	HFPO_DA-13C_IS	----	1.0079	ng/mL
HFPO_DA-13C	Auto	4.301	529494	3458834	13C7-PFUnDA_IS	----	5.9247	ng/mL
HFPO_DA-13C_IS	Auto	4.301	529494	529494	----	----	5.0000	ng/mL

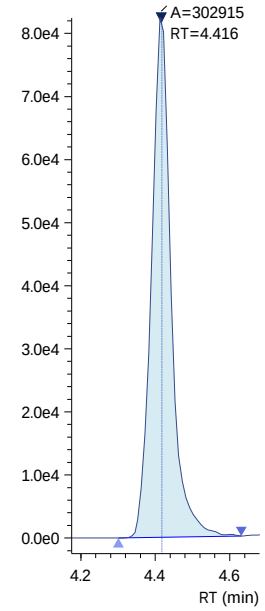


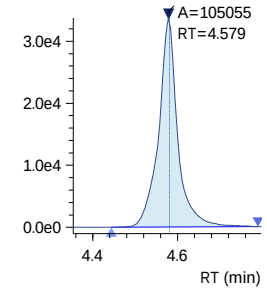
210823_007 (continued)

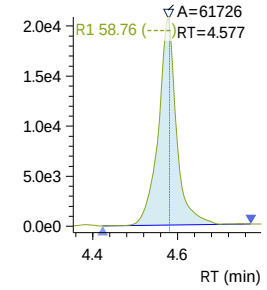
PFHxS_1
Conc 0.9025
R#1 70.91 (71.26)
Q 399.00>80.00 (-) 2.07e4


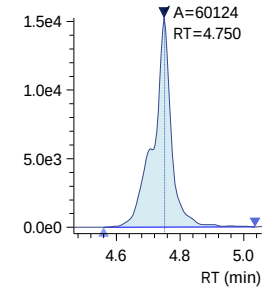
R1 399.00>99.00 (-) 1.72e4


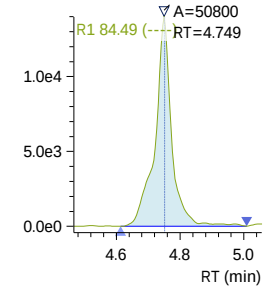
PFHxS-18O
Conc 6.2215
Q 402.70>84.05 (-) 8.25e4


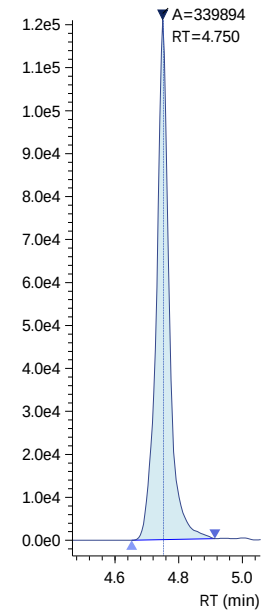
PFHxS-18O_IS
Conc 5.0000
ISTD 402.70>84.05 (-) 8.25e4


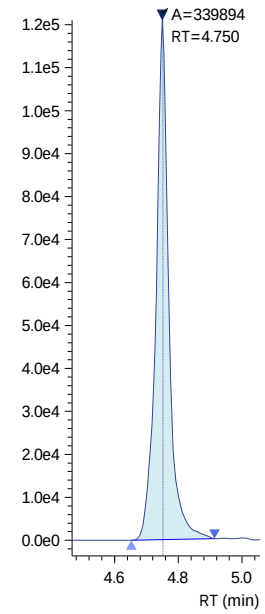
PFHpS_1
Conc 0.8263
R#1 58.76 (53.84)
Q 449.00>80.15 (-) 3.38e4


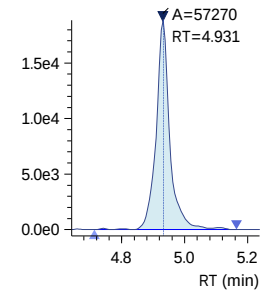
R1 449.00>99.20 (-) 2.09e4


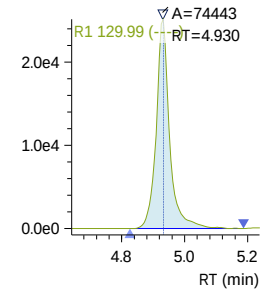
PFOS_1
Conc 0.9403
R#1 84.49 (86.72)
Q 499.00>80.00 (-) 1.53e4


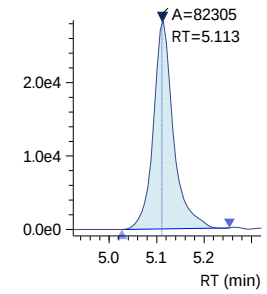
R1 499.00>99.00 (-) 1.40e4


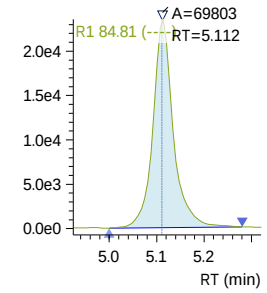
PFOS-13C
Conc 5.6170
Q 502.80>80.05 (-) 1.21e5


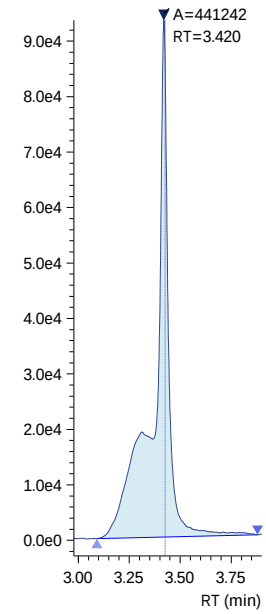
PFOS-13C_IS
Conc 5.0000
ISTD 502.80>80.05 (-) 1.21e5


PFNS
Conc 0.9904
R#1 129.99 (129.18)
Q 549.00>99.00 (-) 1.89e4


R1 549.00>79.95 (-) 2.52e4


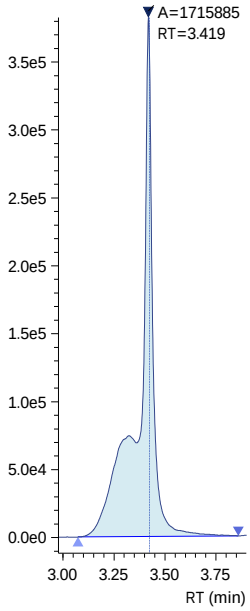
PFDS_1
Conc 0.9910
R#1 84.81 (90.77)
Q 599.00>79.90 (-) 2.85e4


R1 599.00>99.10 (-) 2.36e4


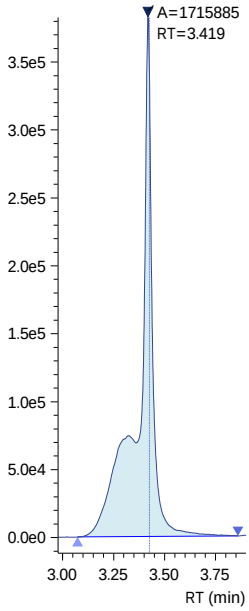
PFBA
Conc 1.0473
Q 213.00>169.10 (-) 9.38e4


210823_007 (continued)

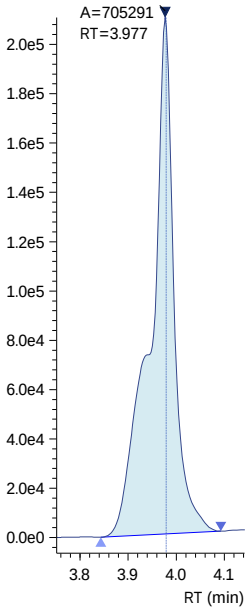
PFBA-13C
Conc 6.0739
Q 216.90>172.15 (-) 3.83e5



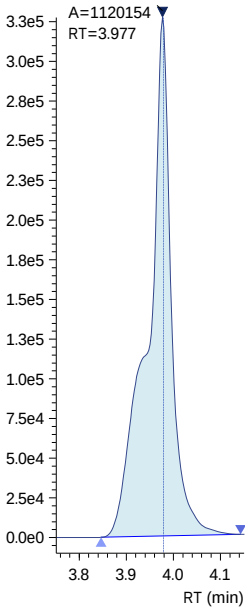
PFBA-13C_IS
Conc 5.0000
ISTD 216.90>172.15 (-) 3.83e5



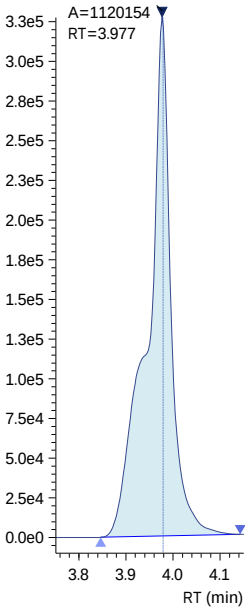
PFPeA
Conc 0.9900
Q 263.05>219.10 (-) 2.11e5



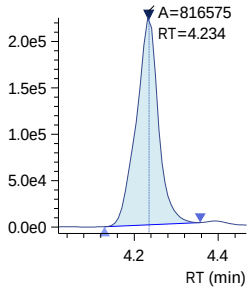
PFPeA-13C
Conc 6.0168
Q 267.90>223.00 (-) 3.28e5



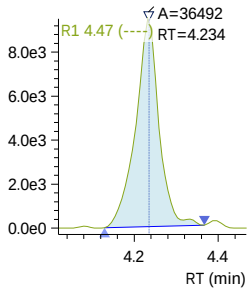
PFPeA-13C_IS
Conc 5.0000
ISTD 267.90>223.00 (-) 3.28e5



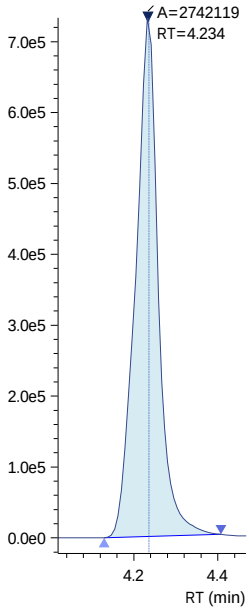
PFHxA
Conc 1.0991
R#1 4.47 (4.17)
Q 313.00>269.00 (-) 2.26e5



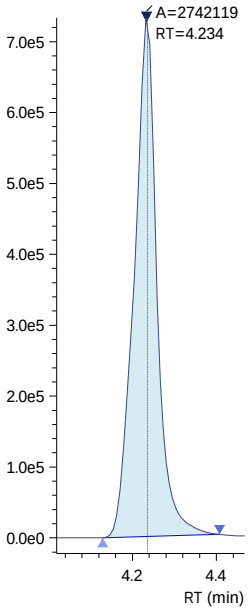
R1 313.00>119.10 (-) 9.51e3



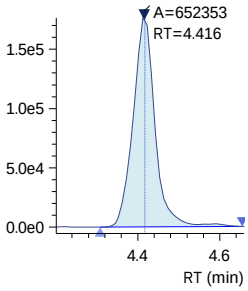
PFHxA-13C
Conc 5.3495
Q 314.90>270.10 (-) 7.34e5



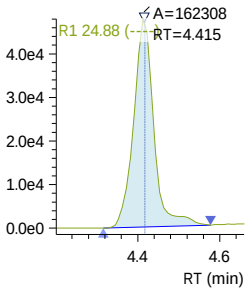
PFHxA-13C_IS
Conc 5.0000
ISTD 314.90>270.10 (-) 7.34e5



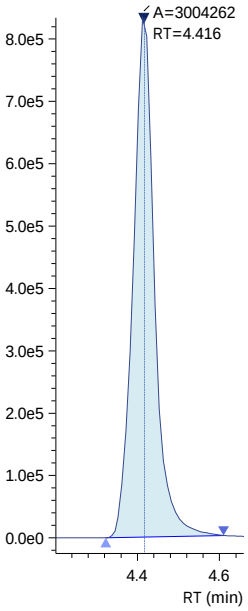
PFHpA
Conc 0.9986
R#1 24.88 (26.04)
Q 362.90>319.00 (-) 1.77e5



R1 362.90>169.00 (-) 4.80e4

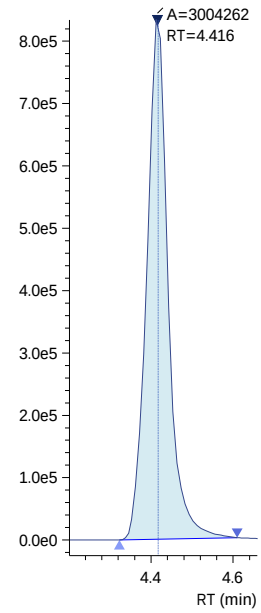


PFHpA-13C
Conc 5.7726
Q 366.90>322.10 (-) 8.34e5

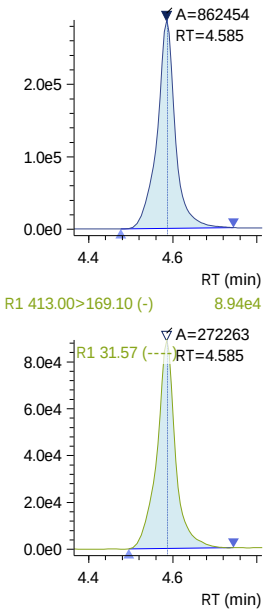


210823_007 (continued)

PFHpA-13C_IS
Conc 5.0000
ISTD 366.90>322.10 (-) 8.34e5

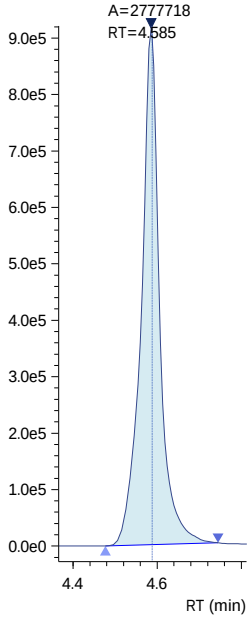


PFOA
Conc 1.0102
R#1 31.57 (30.35)
Q 413.00>369.00 (-) 2.89e5



R1 413.00>169.10 (-) 8.94e4

PFOA-13C
Conc 4.7944
Q 416.80>372.05 (-) 9.22e5



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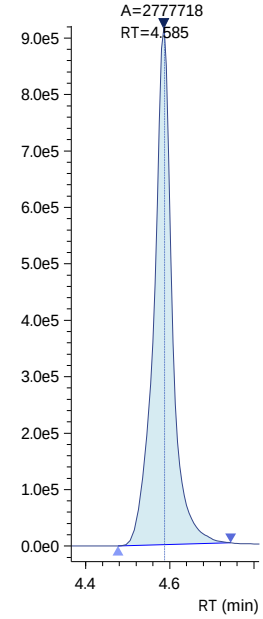
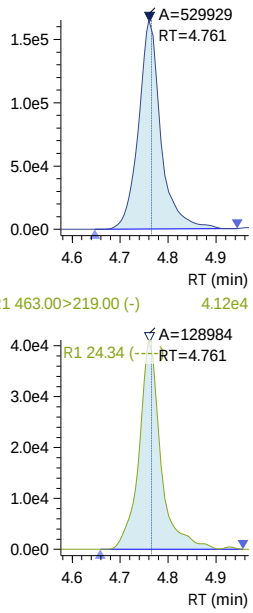
Conc 5.0000
ISTD 416.80>372.05 (-) 9.22e5

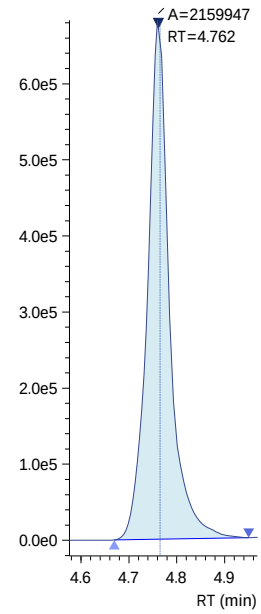


PFNA
Conc 0.9939
R#1 24.34 (22.35)
Q 463.00>418.90 (-) 1.65e5

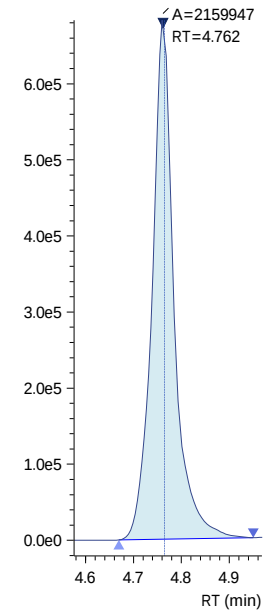


R1 463.00>219.00 (-) 4.12e4

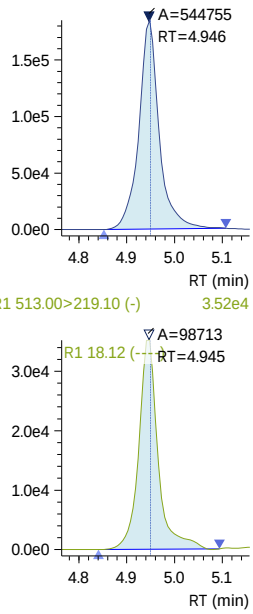
PFNA-13C
Conc 4.8873
Q 467.80>423.00 (-) 6.84e5



PFNA-13C_IS
Conc 5.0000
ISTD 467.80>423.00 (-) 6.84e5

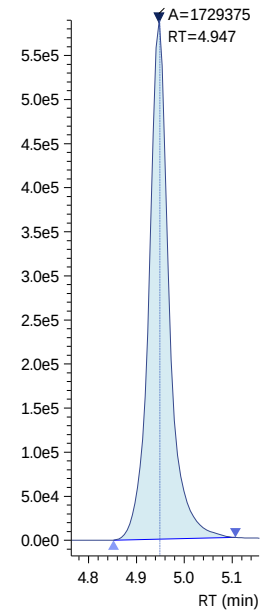


PFDA
Conc 1.0531
R#1 18.12 (18.73)
Q 513.00>468.80 (-) 1.85e5

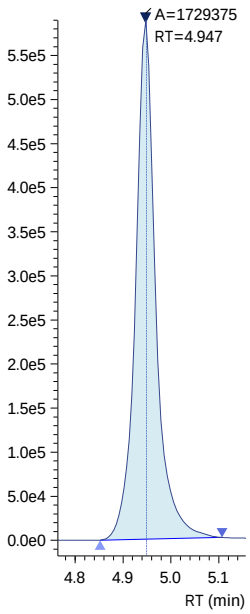


R1 513.00>219.10 (-) 3.52e4

PFDA-13C
Conc 5.2941
Q 514.80>469.95 (-) 5.90e5

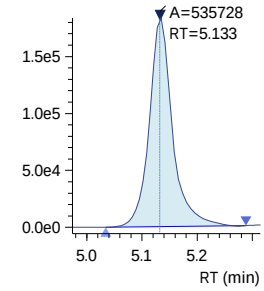


PFDA-13C_IS
Conc 5.0000
ISTD 514.80>469.95 (-) 5.90e5

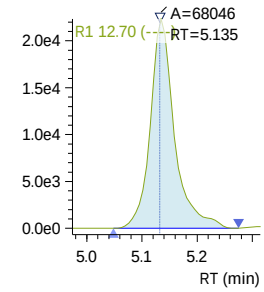


210823_007 (continued)

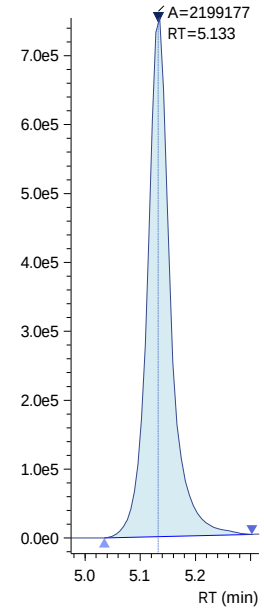
PFUnA
Conc 1.0198
R#1 12.70 (11.60)
Q 563.00>518.90 (-) 1.84e5



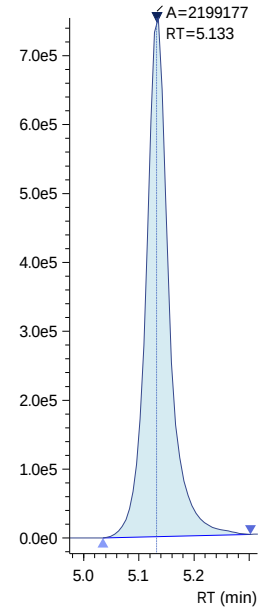
R1 563.00>219.00 (-) 2.23e4



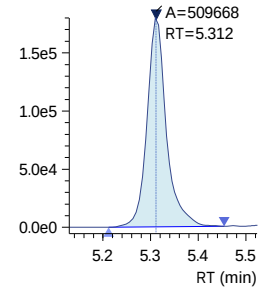
PFUnA-13C
Conc 5.0529
Q 564.80>519.95 (-) 7.55e5



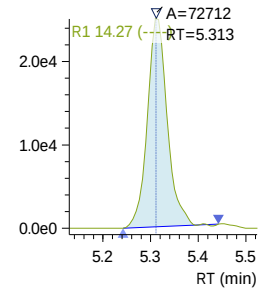
PFUnA-13C_IS
Conc 5.0000
ISTD 564.80>519.95 (-) 7.55e5



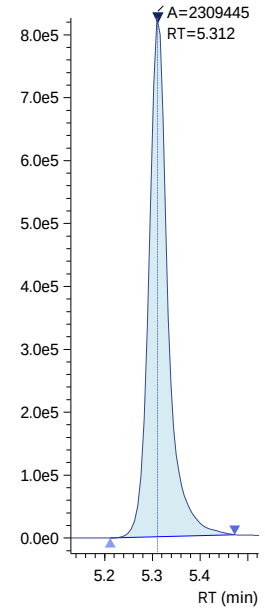
PFDoA
Conc 1.1342
R#1 14.27 (15.11)
Q 613.05>569.00 (-) 1.80e5



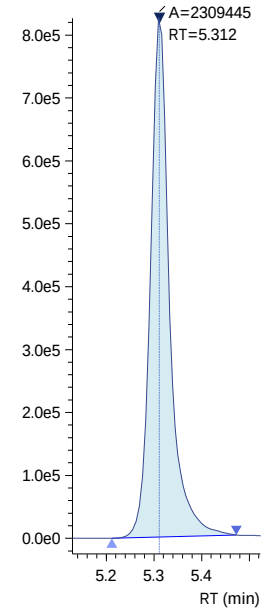
R1 613.05>169.00 (-) 2.51e4



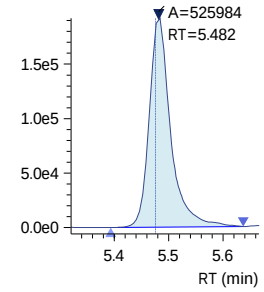
PFDoA-13C
Conc 4.8441
Q 614.80>569.95 (-) 8.27e5



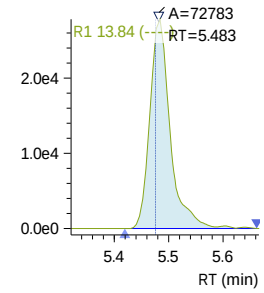
PFDoA-13C_IS
Conc 5.0000
ISTD 614.80>569.95 (-) 8.27e5



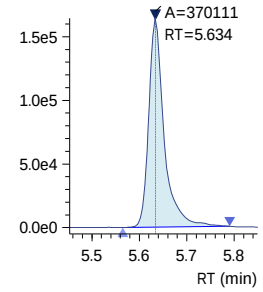
PFTrDA
Conc 1.0512
R#1 13.84 (14.19)
Q 663.00>618.90 (-) 1.92e5



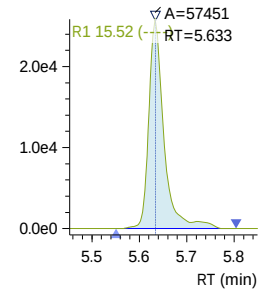
R1 662.90>169.00 (-) 2.78e4



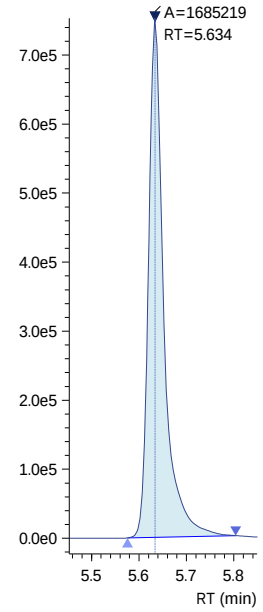
PFTeDA
Conc 0.9769
R#1 15.52 (14.98)
Q 713.00>669.00 (-) 1.65e5



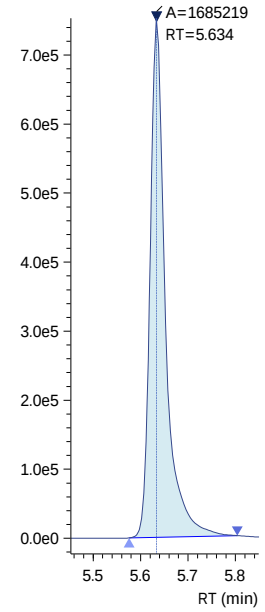
R1 713.00>169.10 (-) 2.58e4



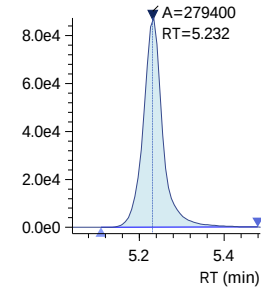
PFTeDA-13C
Conc 5.2233
Q 714.70>669.90 (-) 7.53e5

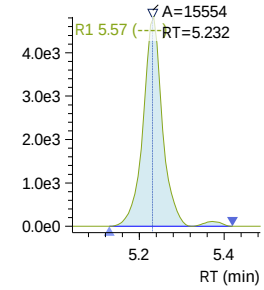


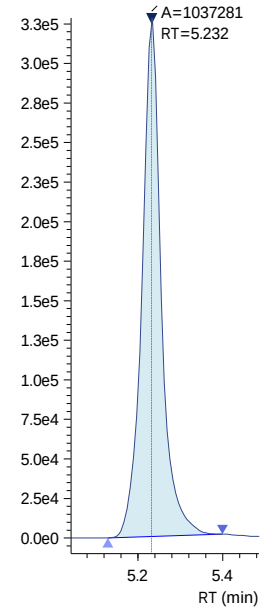
PFTeDA-13C_IS
Conc 5.0000
ISTD 714.70>669.90 (-) 7.53e5

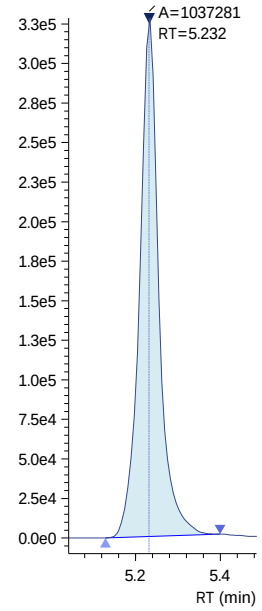


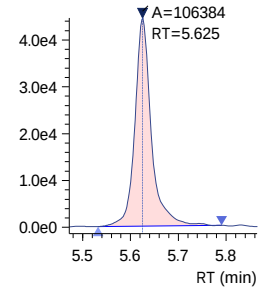
210823_007 (continued)

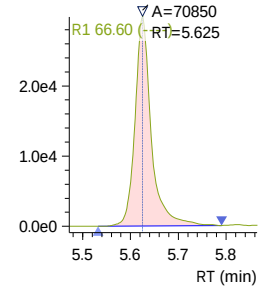
FOSA
Conc 1.0598
R#1 5.57 (4.89)
Q 498.20>78.00 (-) 8.74e4


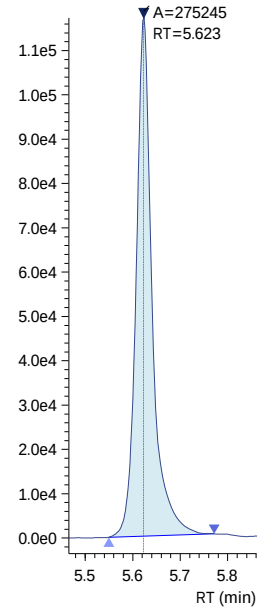
R1 498.20>64.10 (-) 4.82e3


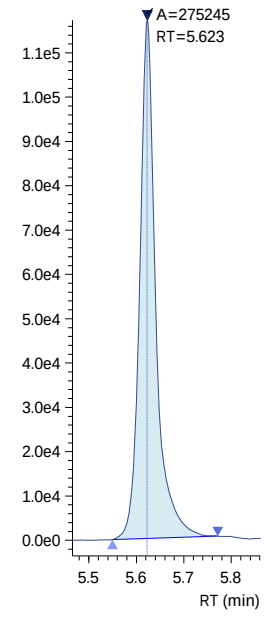
FOSA-13C
Conc 5.0486
Q 506.00>78.05 (-) 3.29e5


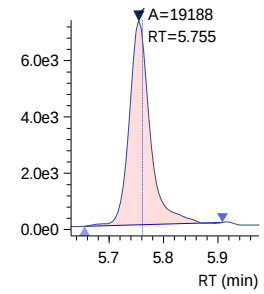
FOSA-13C_IS
Conc 5.0000
ISTD 506.00>78.05 (-) 3.29e5


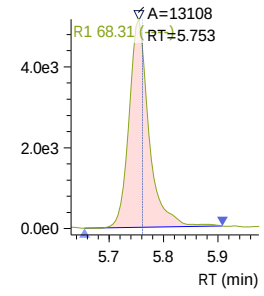
N-MeFOSA
Conc 1.0325
R#1 66.60 (62.72)
Q 512.00>169.10 (-) 4.47e4


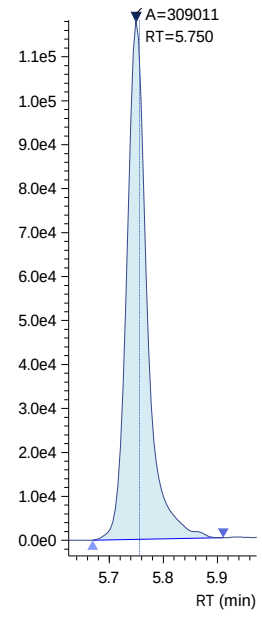
R1 512.00>219.00 (-) 2.98e4


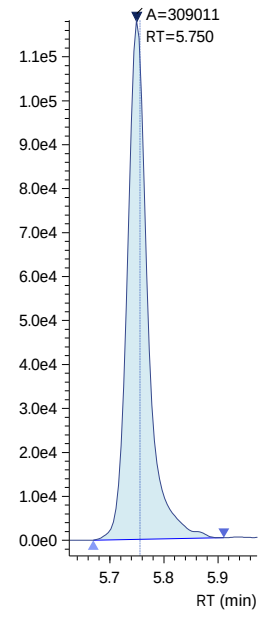
N-MeFOSA-d3
Conc 5.7614
Q 514.90>168.90 (-) 1.17e5


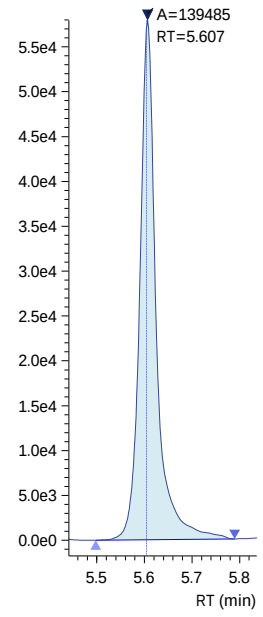
N-MeFOSA-d3_IS
Conc 5.0000
ISTD 514.90>168.90 (-) 1.17e5


N-MeFOSA
Conc 0.9909
R#1 68.31 (63.35)
Q 526.90>169.10 (-) 7.44e3


R1 526.90>219.00 (-) 5.18e3


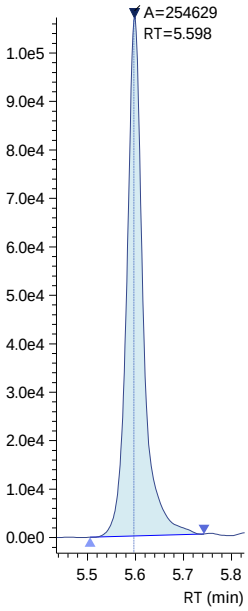
N-EtFOSA-d9
Conc 5.6928
Q 530.90>169.15 (-) 1.18e5


N-EtFOSA-d9_IS
Conc 5.0000
ISTD 530.90>169.15 (-) 1.18e5


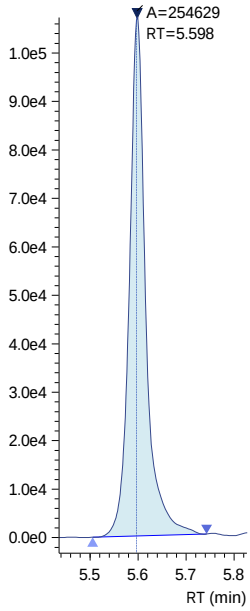
N-MeFOSE
Conc 1.2509
Q 616.00>59.00 (-) 5.80e4


210823_007 (continued)

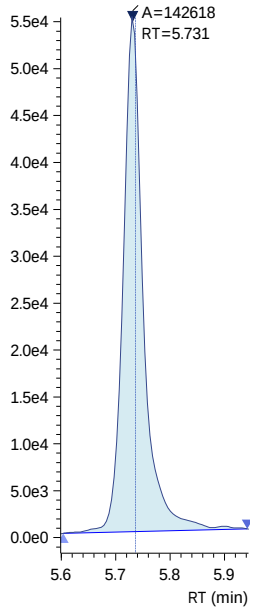
N-MeFOSE-d7
Conc 5.3298
Q 622.70>59.10 (-) 1.07e5



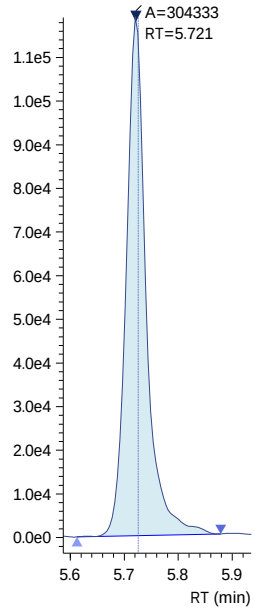
N-MeFOSE-d7_IS
Conc 5.0000
ISTD 622.70>59.10 (-) 1.07e5



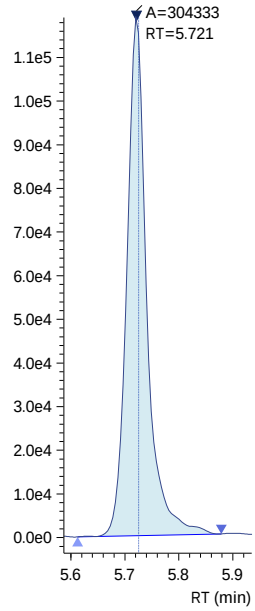
N-EtFOSE
Conc 1.0241
Q 630.00>58.90 (-) 5.55e4



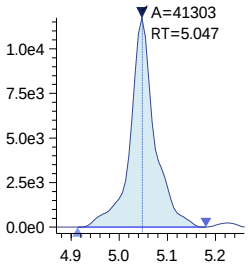
N-EtFOSE-d9
Conc 6.1529
Q 638.70>59.10 (-) 1.19e5



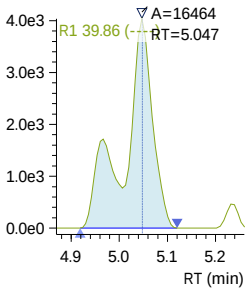
N-EtFOSE-d9_IS
Conc 5.0000
ISTD 638.70>59.10 (-) 1.19e5



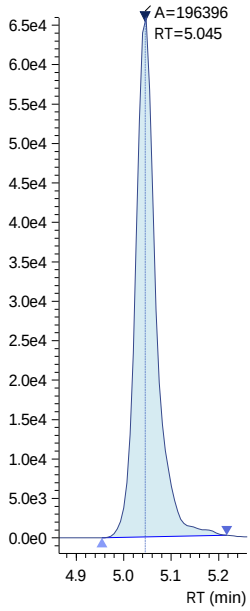
N-MeFOSAA
Conc 1.1188
R#1 39.86 (35.26)
Q 570.20>419.00 (-) 1.17e4



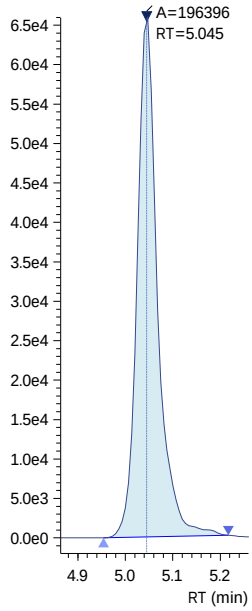
R1 570.20>512.00 (-) 4.04e3



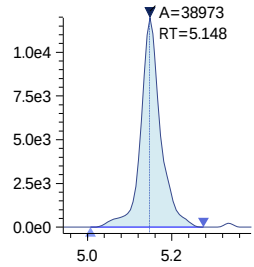
N-MeFOSAA-d3
Conc 5.0404
Q 572.80>419.05 (-) 6.59e4



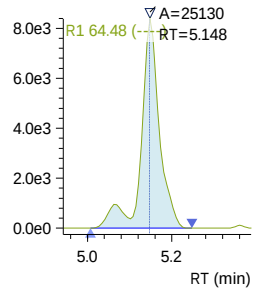
N-MeFOSAA-d3_IS
Conc 5.0000
ISTD 572.80>419.05 (-) 6.59e4



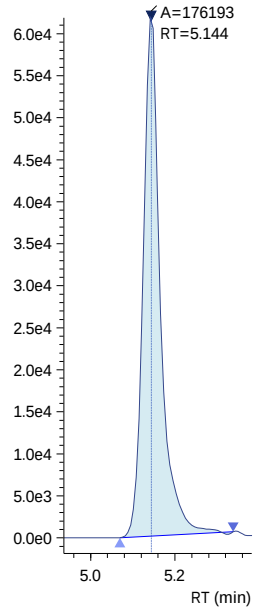
N-EtFOSAA
Conc 1.2703
R#1 64.48 (77.25)
Q 584.20>418.95 (-) 1.20e4



R1 584.20>526.10 (-) 8.38e3

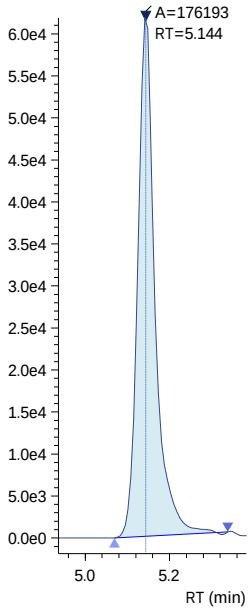


N-EtFOSAA-d5
Conc 4.8574
Q 588.80>419.00 (-) 6.19e4

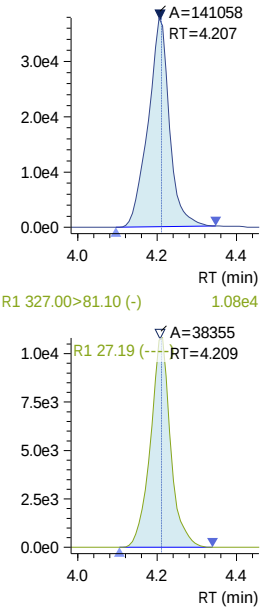


210823_007 (continued)

N-EtFOSAA-d5_IS
Conc 5.0000
ISTD 588.80>419.00 (-) 6.19e4

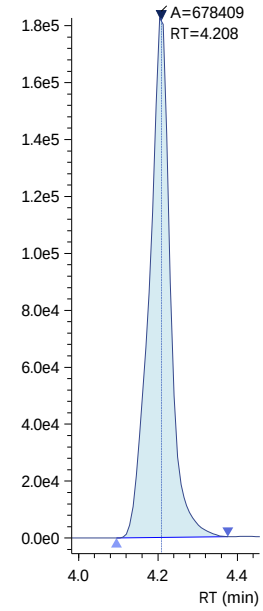


4_2-FTS_1
Conc 1.0378
R#1 27.19 (39.85)
Q 327.00>307.05 (-) 3.79e4

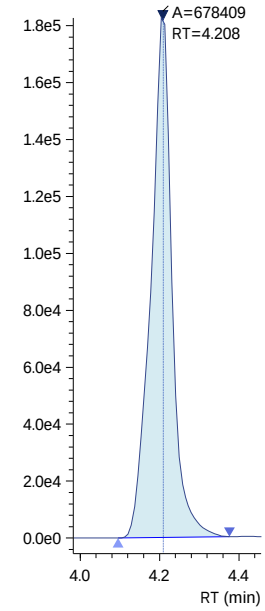


R1 327.00>81.10 (-) 1.08e4

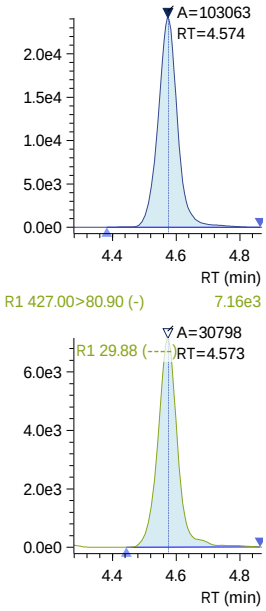
4_2-FTS-13C
Conc 8.5351
Q 328.80>309.05 (-) 1.83e5



4_2-FTS-13C_IS
Conc 5.0000
ISTD 328.80>309.05 (-) 1.83e5

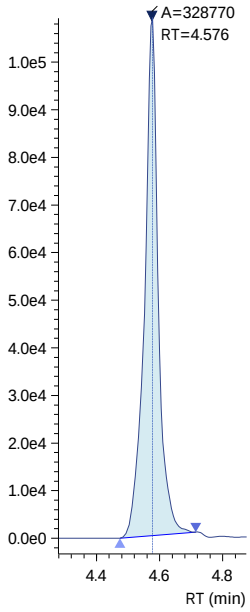


6_2-FTS_1
Conc 1.1270
R#1 29.88 (29.95)
Q 427.00>407.00 (-) 2.41e4

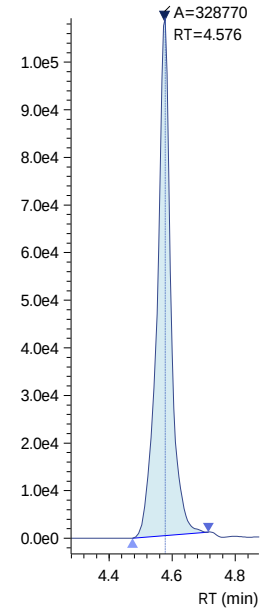


R1 427.00>80.90 (-) 7.16e3

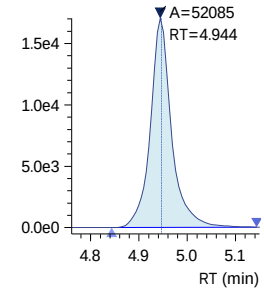
6_2-FTS-13C
Conc 4.3783
Q 428.90>409.00 (-) 1.09e5



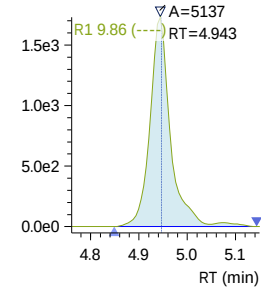
6_2-FTS-13C_IS
Conc 5.0000
ISTD 428.90>409.00 (-) 1.09e5



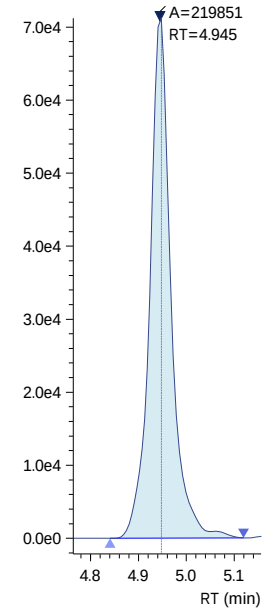
8_2-FTS_1
Conc 1.0186
R#1 9.86 (9.42)
Q 527.10>506.90 (-) 1.71e4



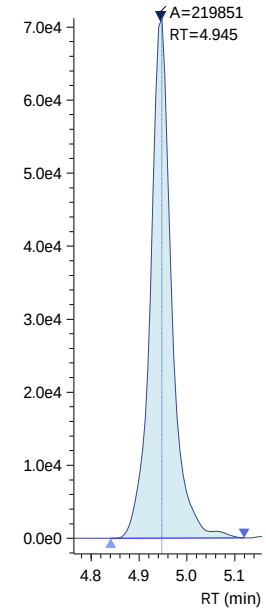
R1 527.20>487.00 (-) 1.73e3



8_2-FTS-13C
Conc 5.5008
Q 528.80>509.00 (-) 7.12e4

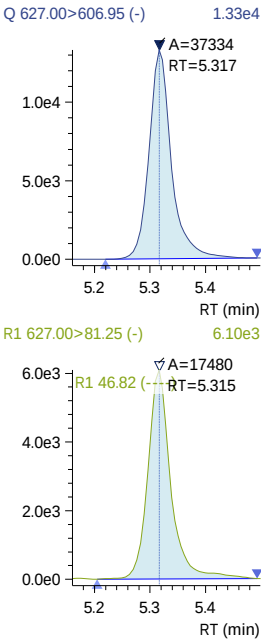


8_2-FTS-13C_IS
Conc 5.0000
ISTD 528.80>509.00 (-) 7.12e4

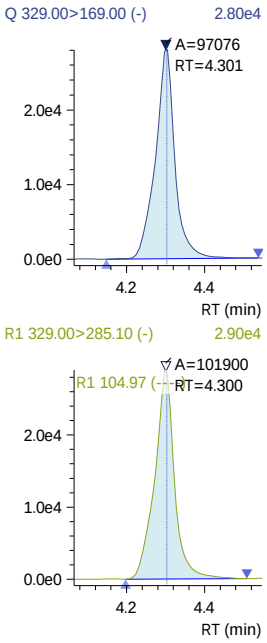


210823_007 (continued)

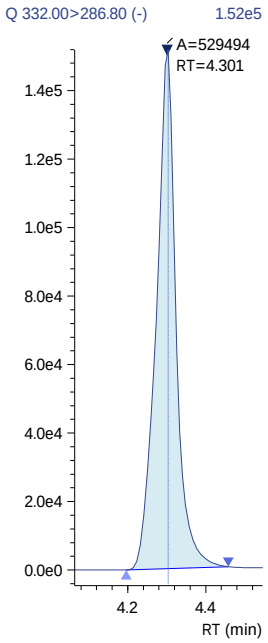
10_2-FtS_1
Conc 1.0554
R#1 46.82 (49.86)



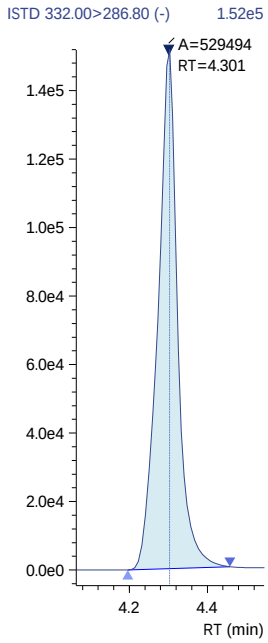
HPFO_DA
Conc 1.0079
R#1 104.97 (101.52)



HFPO_DA-13C
Conc 5.9247



HFPO_DA-13C_IS
Conc 5.0000

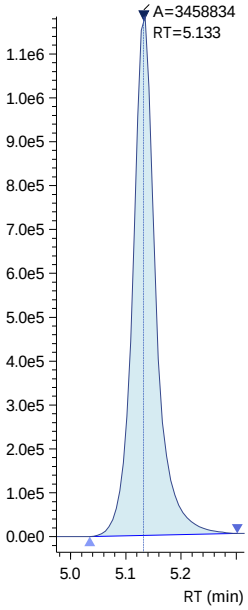


Insight Report
Before Manual Integration
Printed 8/27/2021 15:36:01

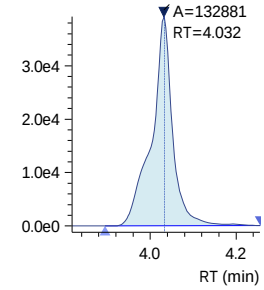
210823_007

Sample ID: PFC CCV @ 1.0ppb
Date Acquired: 8/23/2021 4:49:19 PM
Acquired by: System Administrator
Data File: 210823_007
Vial: 4 | Inj. Volume: 15.0000uL | Tray: 0

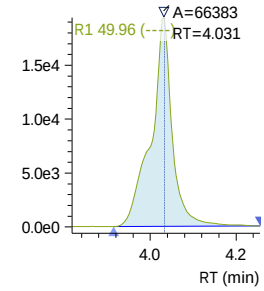
13C7-PFUnDA_IS
Conc 5.0000
ISTD 570.00>525.00 (-) 1.19e6



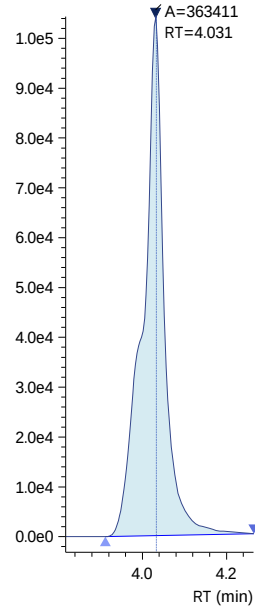
PFBS_1
Conc 1.0142
R#1 49.96 (47.76)
Q 299.00>80.00 (-) 3.92e4



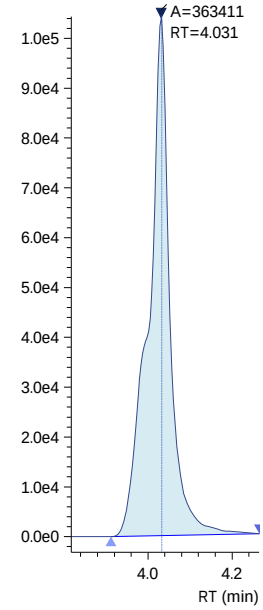
R1 298.80>99.00 (-) 1.94e4



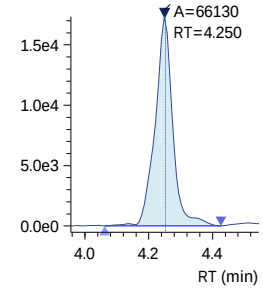
PFBS-13C
Conc 5.0894
Q 301.80>80.00 (-) 1.04e5



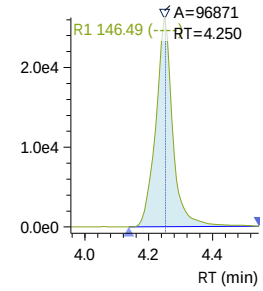
PFBS-13C_IS
Conc 5.0000
ISTD 301.80>80.00 (-) 1.04e5



PFPeS
Conc 0.9273
R#1 146.49 (136.08)
Q 349.00>99.00 (-) 1.73e4



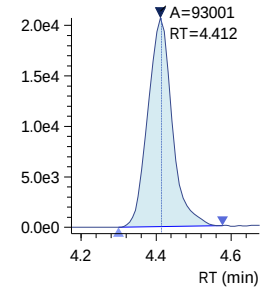
R1 349.00>79.95 (-) 2.63e4



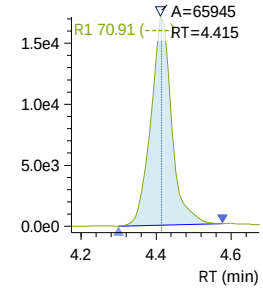
Insight Report
Before Manual Integration
Printed 8/27/2021 15:36:01

210823_007 (continued)

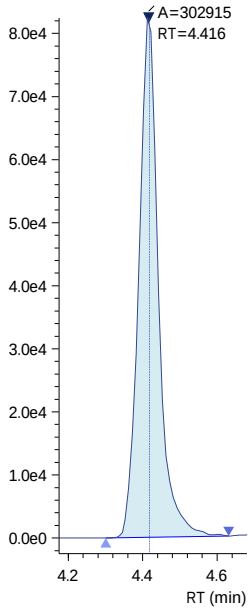
PFHxS_1
Conc 0.9025
R#1 70.91 (71.26)
Q 399.00>80.00 (-) 2.07e4



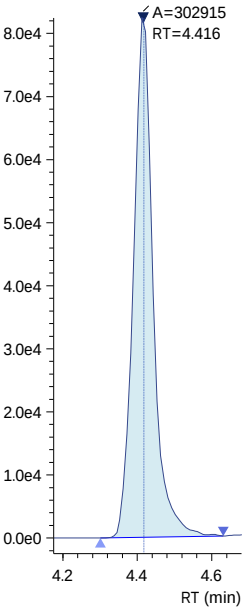
R1 399.00>99.00 (-) 1.72e4



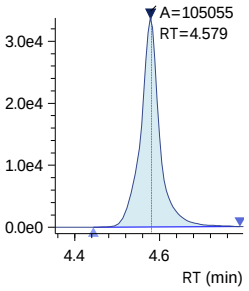
PFHxS-18O
Conc 6.2215
Q 402.70>84.05 (-) 8.25e4



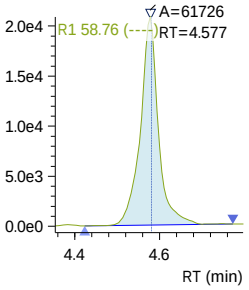
PFHxS-18O_IS
Conc 5.0000
ISTD 402.70>84.05 (-) 8.25e4



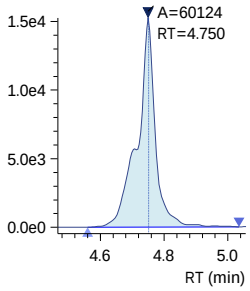
PFHpS_1
Conc 0.8263
R#1 58.76 (53.84)
Q 449.00>80.15 (-) 3.38e4



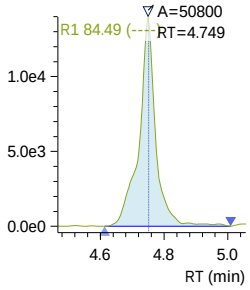
R1 449.00>99.20 (-) 2.09e4



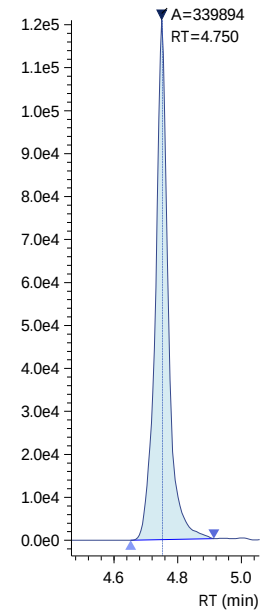
PFOS_1
Conc 0.9403
R#1 84.49 (86.72)
Q 499.00>80.00 (-) 1.53e4



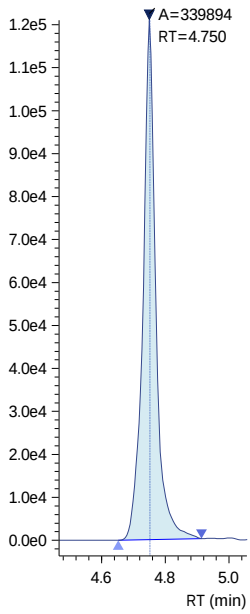
R1 499.00>99.00 (-) 1.40e4



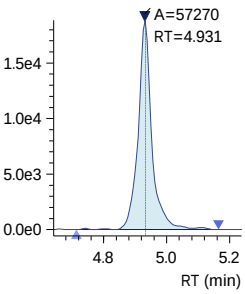
PFOS-13C
Conc 5.6170
Q 502.80>80.05 (-) 1.21e5



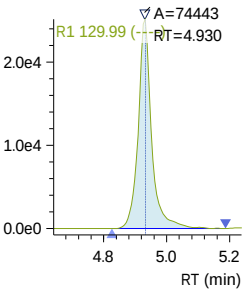
PFOS-13C_IS
Conc 5.0000
ISTD 502.80>80.05 (-) 1.21e5



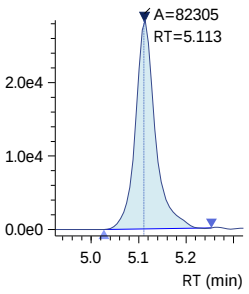
PFNS
Conc 0.9904
R#1 129.99 (129.18)
Q 549.00>99.00 (-) 1.89e4



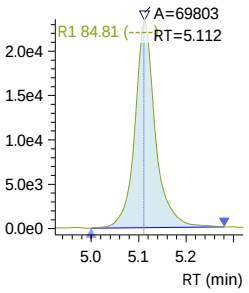
R1 549.00>79.95 (-) 2.52e4



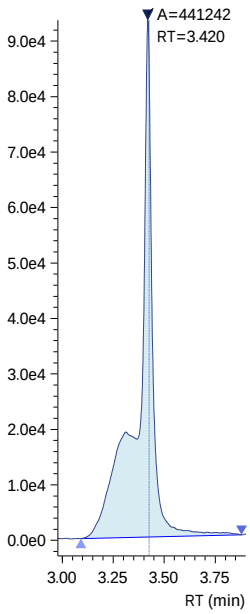
PFDS_1
Conc 0.9910
R#1 84.81 (90.77)
Q 599.00>79.90 (-) 2.85e4



R1 599.00>99.10 (-) 2.36e4

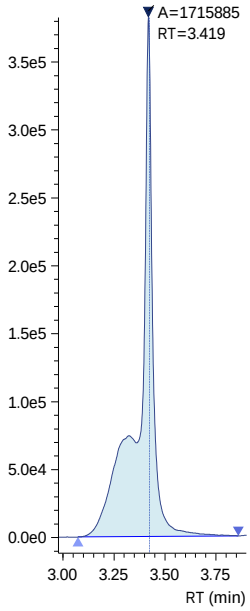


PFBA
Conc 1.0473
Q 213.00>169.10 (-) 9.38e4

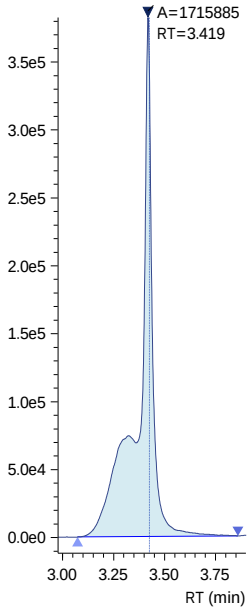


210823_007 (continued)

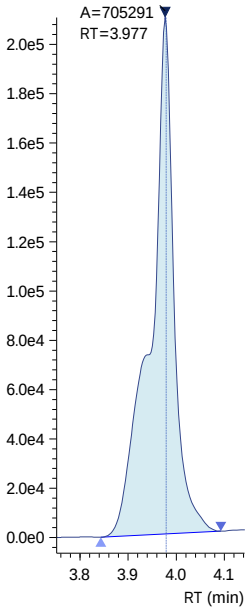
PFBA-13C
Conc 6.0739
Q 216.90>172.15 (-) 3.83e5



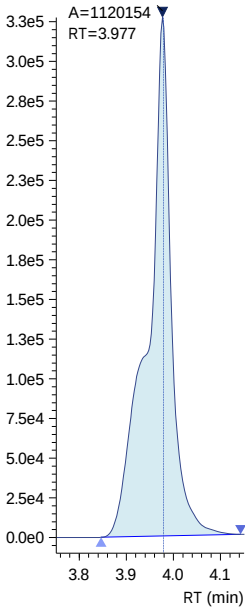
PFBA-13C_IS
Conc 5.0000
ISTD 216.90>172.15 (-) 3.83e5



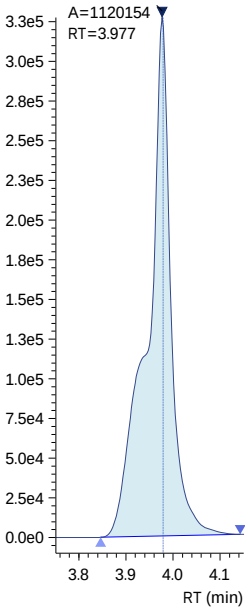
PFPeA
Conc 0.9900
Q 263.05>219.10 (-) 2.11e5



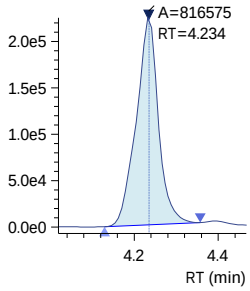
PFPeA-13C
Conc 6.0168
Q 267.90>223.00 (-) 3.28e5



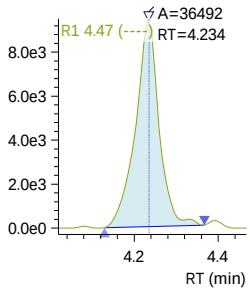
PFPeA-13C_IS
Conc 5.0000
ISTD 267.90>223.00 (-) 3.28e5



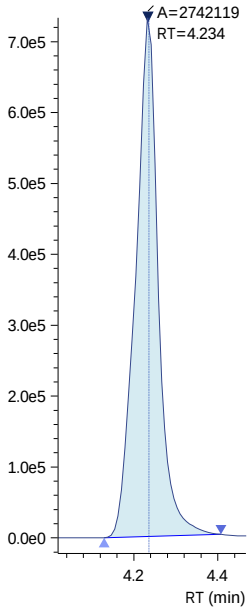
PFHxA
Conc 1.0991
R#1 4.47 (4.17)
Q 313.00>269.00 (-) 2.26e5



R1 313.00>119.10 (-) 9.51e3



PFHxA-13C
Conc 5.3495
Q 314.90>270.10 (-) 7.34e5



PFHxA-13C_IS
Conc 5.0000
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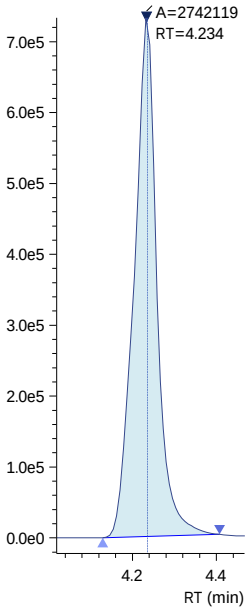
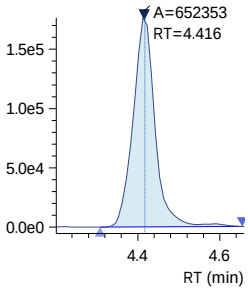
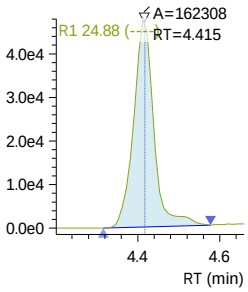


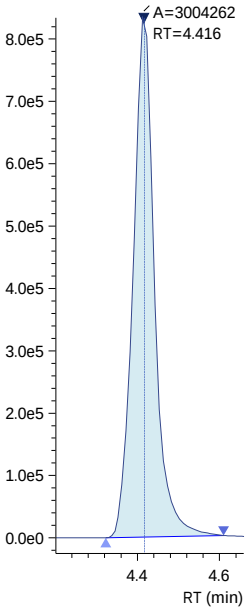
PFHpA
Conc 0.9986
R#1 24.88 (26.04)
Q 362.90>319.00 (-) 1.77e5



R1 362.90>169.00 (-) 4.80e4

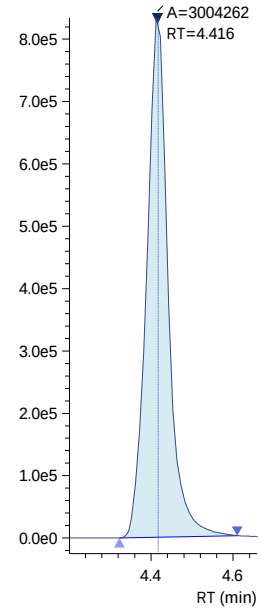


PFHpA-13C
Conc 5.7726
Q 366.90>322.10 (-) 8.34e5

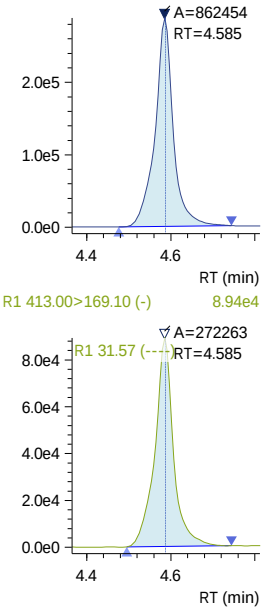


210823_007 (continued)

PFHpA-13C_IS
Conc 5.0000
ISTD 366.90>322.10 (-) 8.34e5

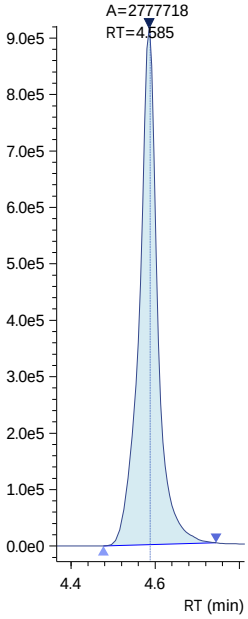


PFOA
Conc 1.0102
R#1 31.57 (30.35)
Q 413.00>369.00 (-) 2.89e5

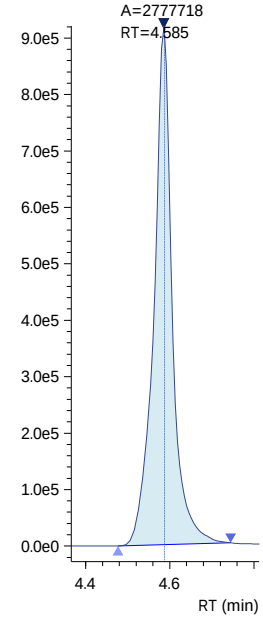


R1 413.00>169.10 (-) 8.94e4

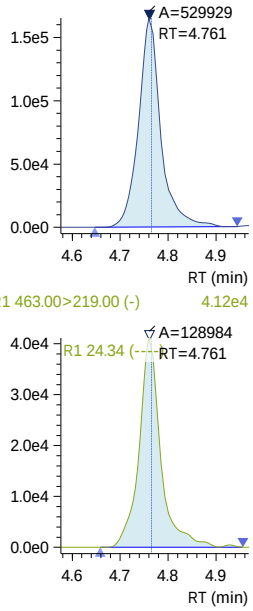
PFOA-13C
Conc 4.7944
Q 416.80>372.05 (-) 9.22e5



PFOA-13C_IS
Conc 5.0000
ISTD 416.80>372.05 (-) 9.22e5

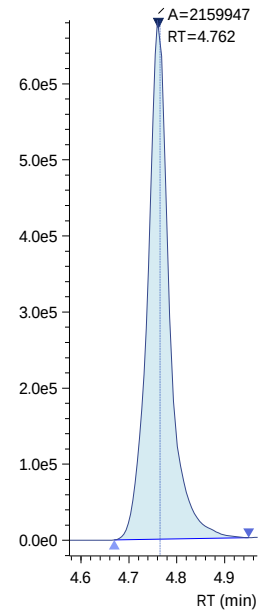


PFNA
Conc 0.9939
R#1 24.34 (22.35)
Q 463.00>418.90 (-) 1.65e5

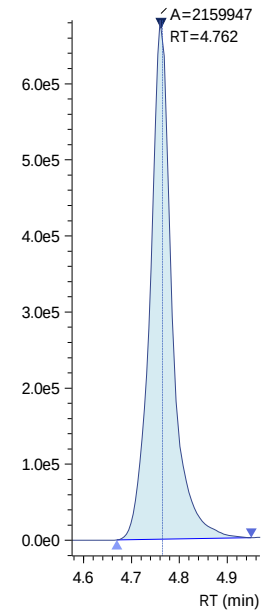


R1 463.00>219.00 (-) 4.12e4

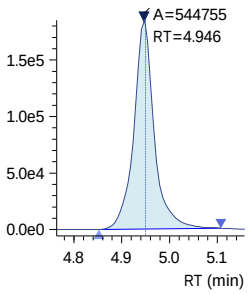
PFNA-13C
Conc 4.8873
Q 467.80>423.00 (-) 6.84e5



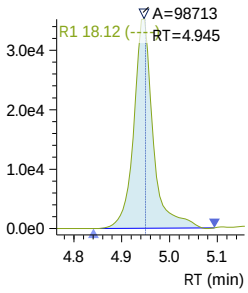
PFNA-13C_IS
Conc 5.0000
ISTD 467.80>423.00 (-) 6.84e5



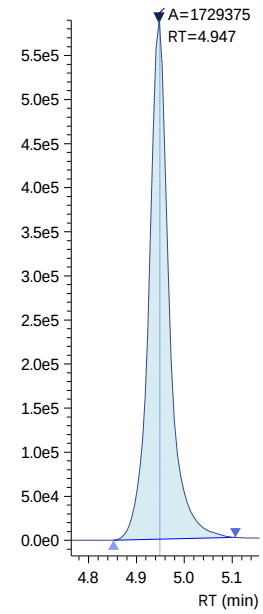
PFDA
Conc 1.0531
R#1 18.12 (18.73)
Q 513.00>468.80 (-) 1.85e5



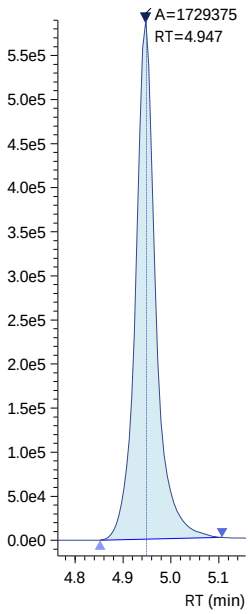
R1 513.00>219.10 (-) 3.52e4



PFDA-13C
Conc 5.2941
Q 514.80>469.95 (-) 5.90e5

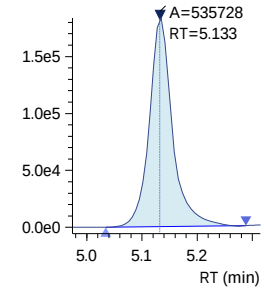


PFDA-13C_IS
Conc 5.0000
ISTD 514.80>469.95 (-) 5.90e5

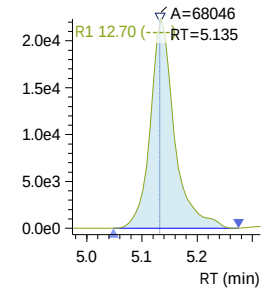


210823_007 (continued)

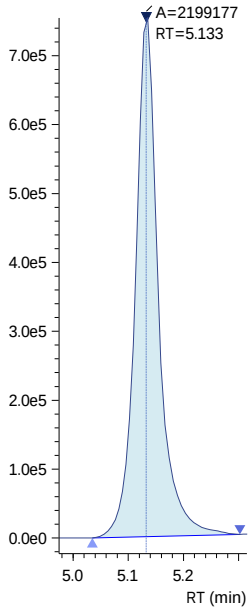
PFUnA
Conc 1.0198
R#1 12.70 (11.60)
Q 563.00>518.90 (-) 1.84e5



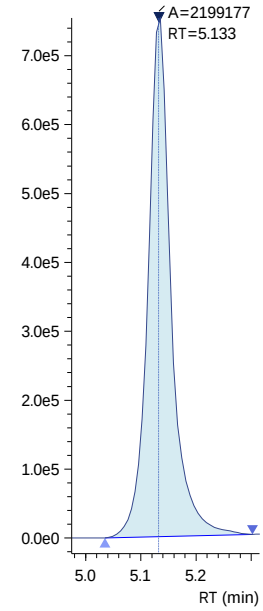
R1 563.00>219.00 (-) 2.23e4



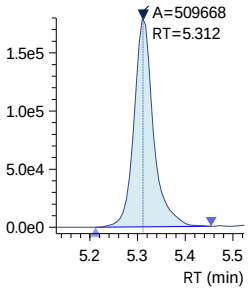
PFUnA-13C
Conc 5.0529
Q 564.80>519.95 (-) 7.55e5



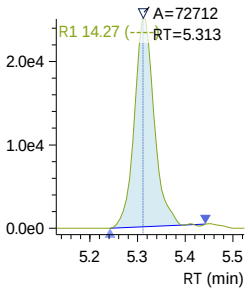
PFUnA-13C_IS
Conc 5.0000
ISTD 564.80>519.95 (-) 7.55e5



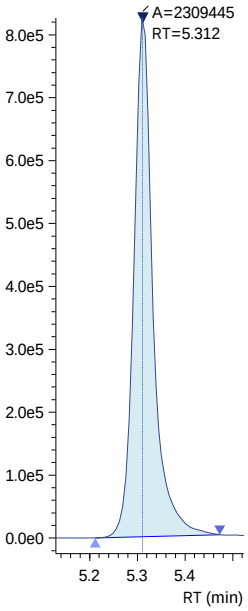
PFDoA
Conc 1.1342
R#1 14.27 (15.11)
Q 613.05>569.00 (-) 1.80e5



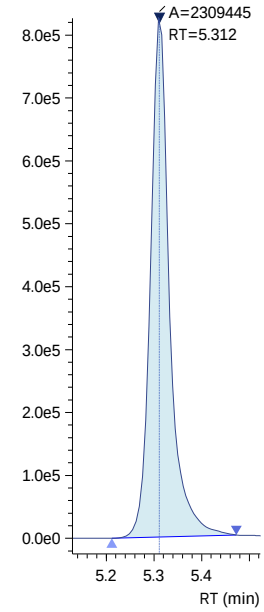
R1 613.05>169.00 (-) 2.51e4



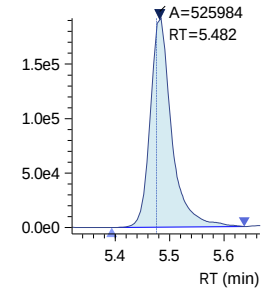
PFDoA-13C
Conc 4.8441
Q 614.80>569.95 (-) 8.27e5



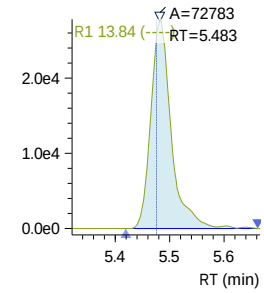
PFDoA-13C_IS
Conc 5.0000
ISTD 614.80>569.95 (-) 8.27e5



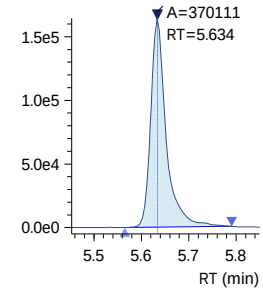
PFTrDA
Conc 1.0512
R#1 13.84 (14.19)
Q 663.00>618.90 (-) 1.92e5



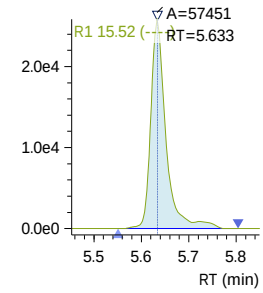
R1 662.90>169.00 (-) 2.78e4



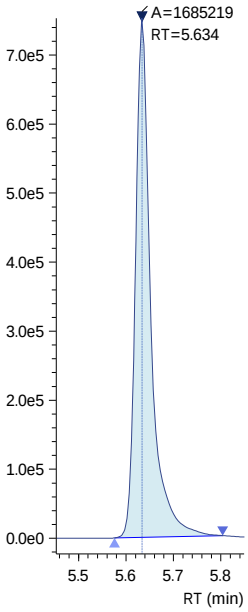
PFTeDA
Conc 0.9769
R#1 15.52 (14.98)
Q 713.00>669.00 (-) 1.65e5



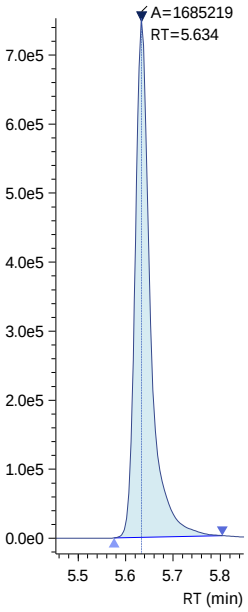
R1 713.00>169.10 (-) 2.58e4



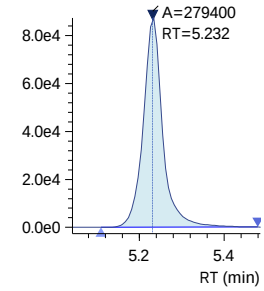
PFTeDA-13C
Conc 5.2233
Q 714.70>669.90 (-) 7.53e5

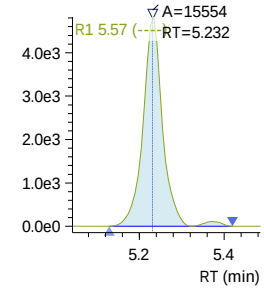


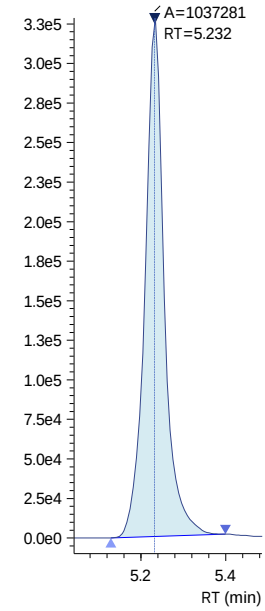
PFTeDA-13C_IS
Conc 5.0000
ISTD 714.70>669.90 (-) 7.53e5

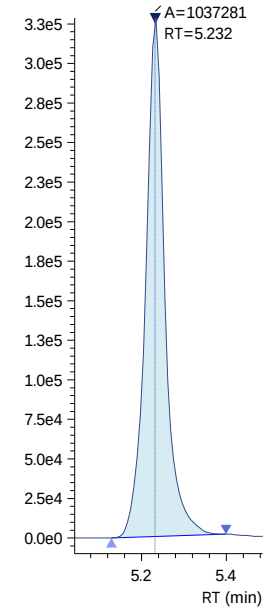


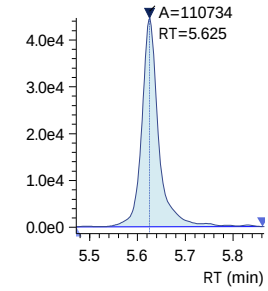
210823_007 (continued)

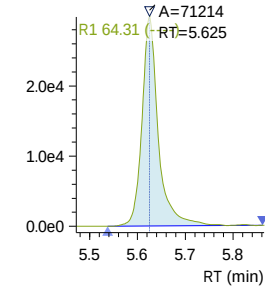
FOSA
Conc 1.0598
R#1 5.57 (4.89)
Q 498.20>78.00 (-) 8.74e4


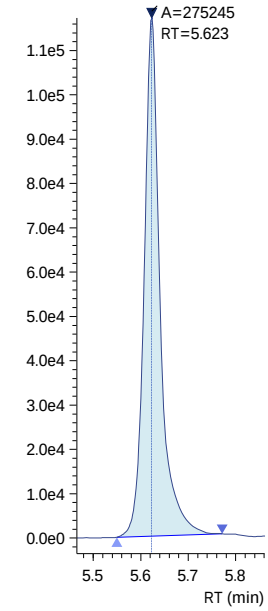
R1 498.20>64.10 (-) 4.82e3


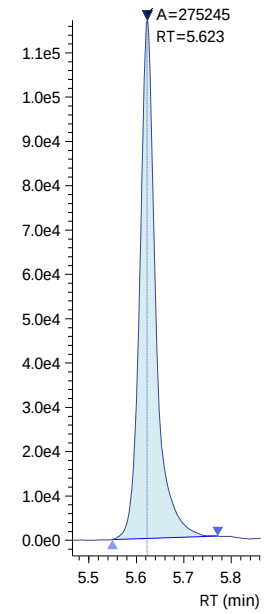
FOSA-13C
Conc 5.0486
Q 506.00>78.05 (-) 3.29e5


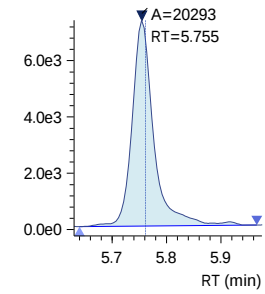
FOSA-13C_IS
Conc 5.0000
ISTD 506.00>78.05 (-) 3.29e5


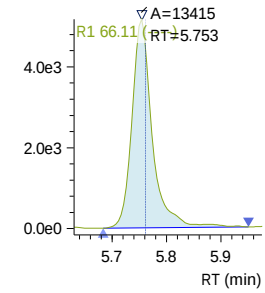
N-MeFOSA
Conc 1.0747
R#1 64.31 (62.72)
Q 512.00>169.10 (-) 4.47e4


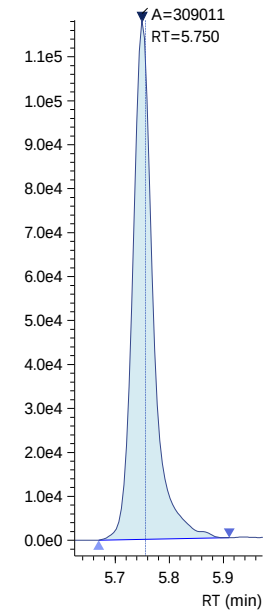
R1 512.00>219.00 (-) 2.98e4


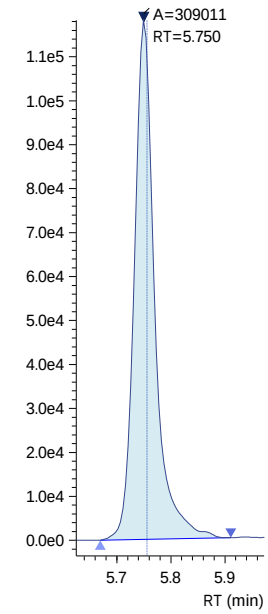
N-MeFOSA-d3
Conc 5.7614
Q 514.90>168.90 (-) 1.17e5


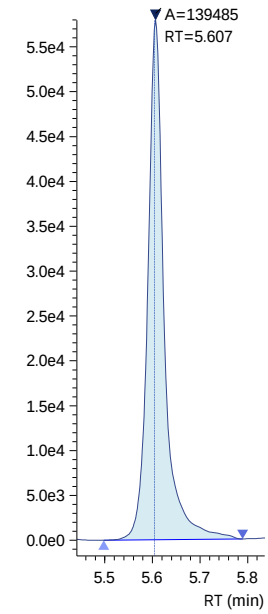
N-MeFOSA-d3_IS
Conc 5.0000
ISTD 514.90>168.90 (-) 1.17e5


N-EtFOSA
Conc 1.0479
R#1 66.11 (63.35)
Q 526.90>169.10 (-) 7.44e3


R1 526.90>219.00 (-) 5.18e3


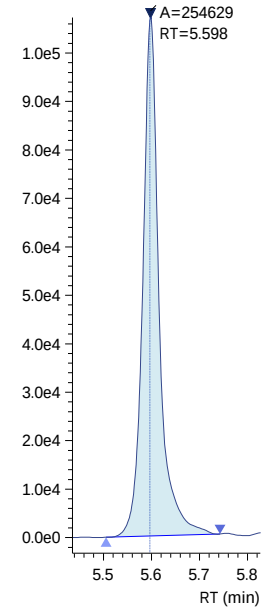
N-EtFOSA-d9
Conc 5.6928
Q 530.90>169.15 (-) 1.18e5


N-EtFOSA-d9_IS
Conc 5.0000
ISTD 530.90>169.15 (-) 1.18e5


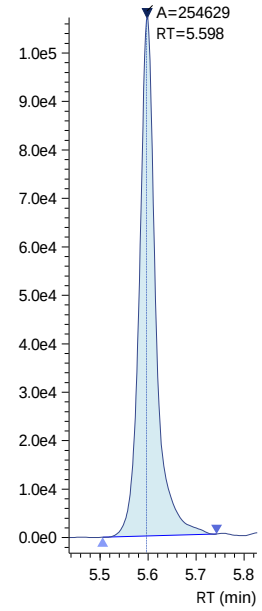
N-MeFOSE
Conc 1.2509
Q 616.00>59.00 (-) 5.80e4


210823_007 (continued)

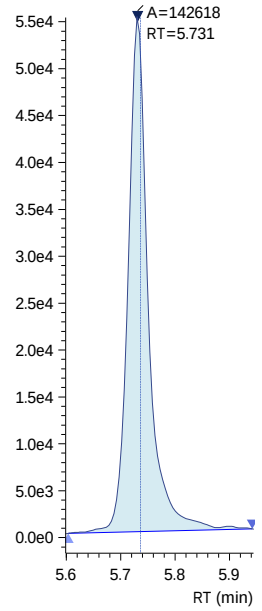
N-MeFOSE-d7
Conc 5.3298
Q 622.70>59.10 (-) 1.07e5



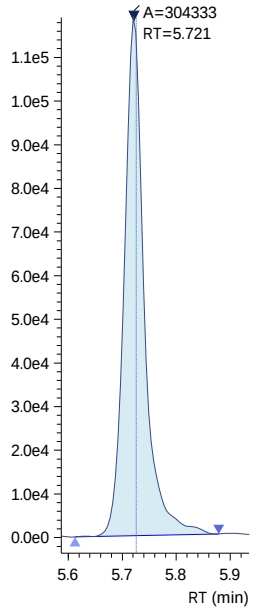
N-MeFOSE-d7_IS
Conc 5.0000
ISTD 622.70>59.10 (-) 1.07e5



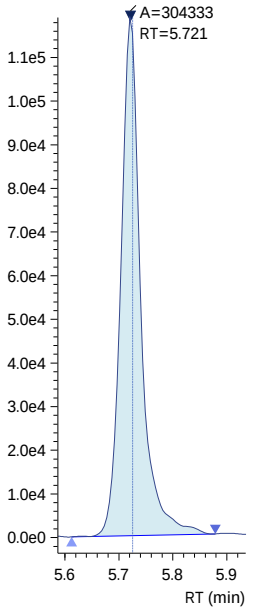
N-EtFOSE
Conc 1.0241
Q 630.00>58.90 (-) 5.55e4



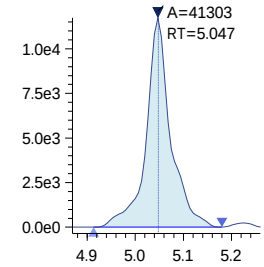
N-EtFOSE-d9
Conc 6.1529
Q 638.70>59.10 (-) 1.19e5



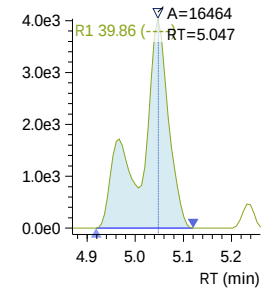
N-EtFOSE-d9_IS
Conc 5.0000
ISTD 638.70>59.10 (-) 1.19e5



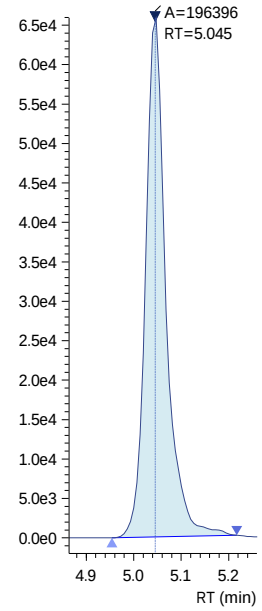
N-MeFOSAA
Conc 1.1188
R#1 39.86 (35.26)
Q 570.20>419.00 (-) 1.17e4



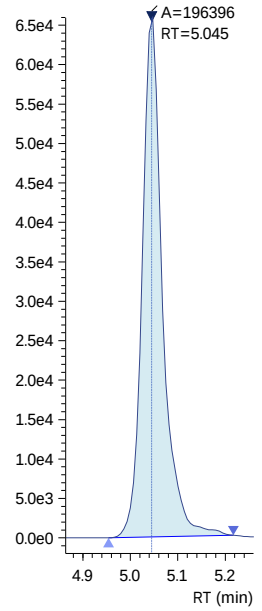
R1 570.20>512.00 (-) 4.04e3



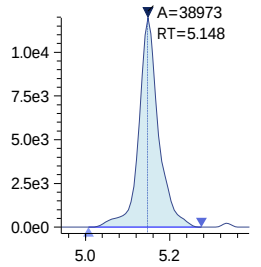
N-MeFOSAA-d3
Conc 5.0404
Q 572.80>419.05 (-) 6.59e4



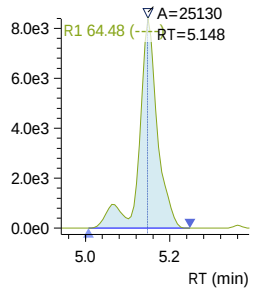
N-MeFOSAA-d3_IS
Conc 5.0000
ISTD 572.80>419.05 (-) 6.59e4



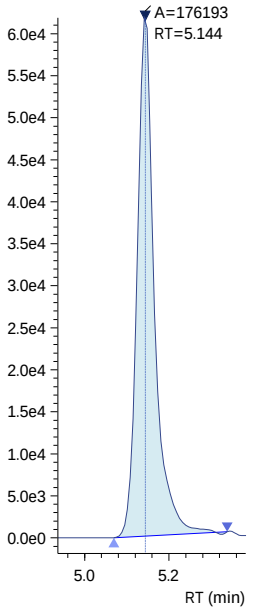
N-EtFOSAA
Conc 1.2703
R#1 64.48 (77.25)
Q 584.20>418.95 (-) 1.20e4



R1 584.20>526.10 (-) 8.38e3

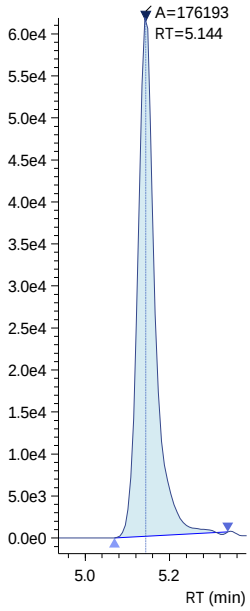


N-EtFOSAA-d5
Conc 4.8574
Q 588.80>419.00 (-) 6.19e4

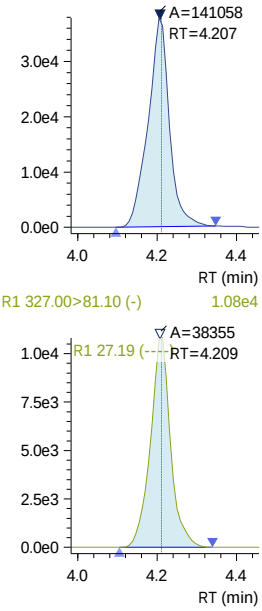


210823_007 (continued)

N-EtFOSAA-d5_IS
Conc 5.0000
ISTD 588.80>419.00 (-) 6.19e4

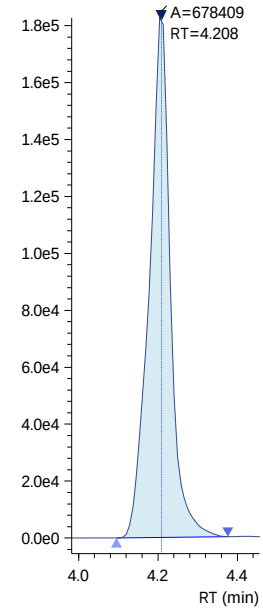


4_2-FTS_1
Conc 1.0378
R#1 27.19 (39.85)
Q 327.00>307.05 (-) 3.79e4

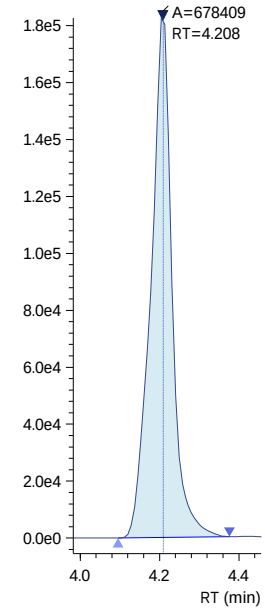


R1 327.00>81.10 (-) 1.08e4

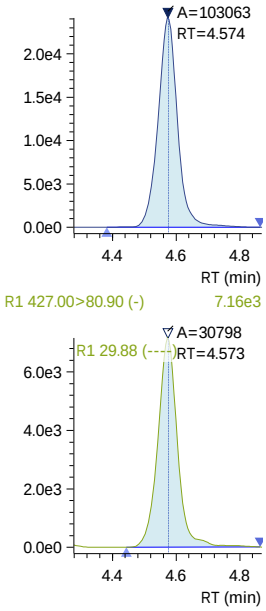
4_2-FTS-13C
Conc 8.5351
Q 328.80>309.05 (-) 1.83e5



4_2-FTS-13C_IS
Conc 5.0000
ISTD 328.80>309.05 (-) 1.83e5

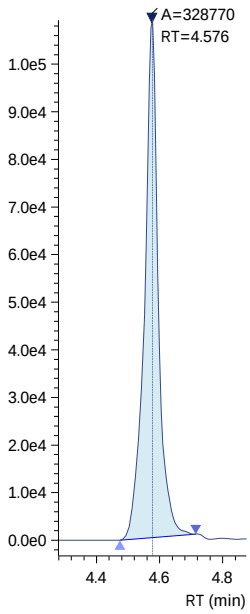


6_2-FTS_1
Conc 1.1270
R#1 29.88 (29.95)
Q 427.00>407.00 (-) 2.41e4

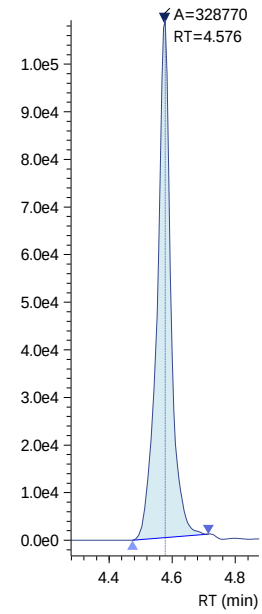


R1 427.00>80.90 (-) 7.16e3

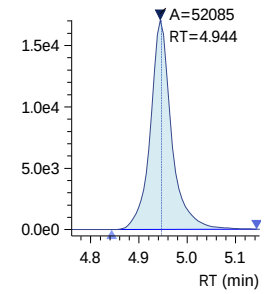
6_2-FTS-13C
Conc 4.3783
Q 428.90>409.00 (-) 1.09e5



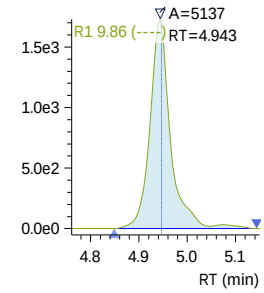
6_2-FTS-13C_IS
Conc 5.0000
ISTD 428.90>409.00 (-) 1.09e5



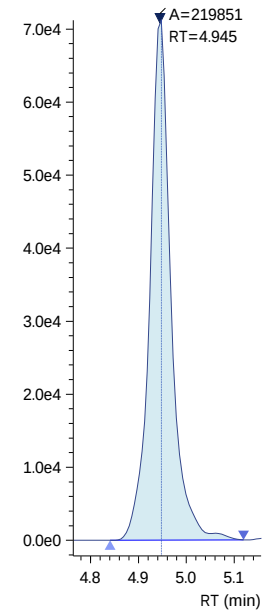
8_2-FTS_1
Conc 1.0186
R#1 9.86 (9.42)
Q 527.10>506.90 (-) 1.71e4



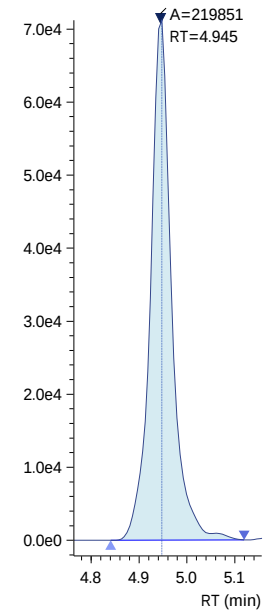
R1 527.20>487.00 (-) 1.73e3



8_2-FTS-13C
Conc 5.5008
Q 528.80>509.00 (-) 7.12e4

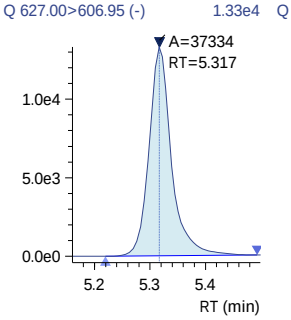


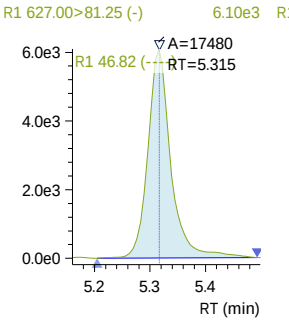
8_2-FTS-13C_IS
Conc 5.0000
ISTD 528.80>509.00 (-) 7.12e4



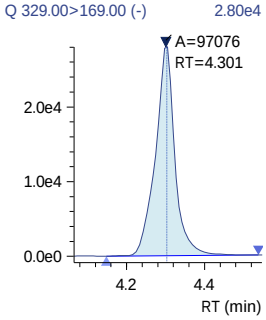
210823_007 (continued)

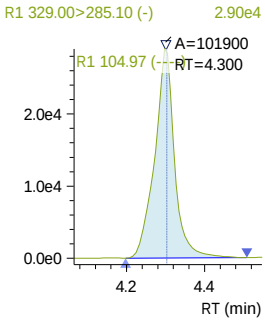
10_2-FtS_1
Conc 1.0554
R#1 46.82 (49.86)



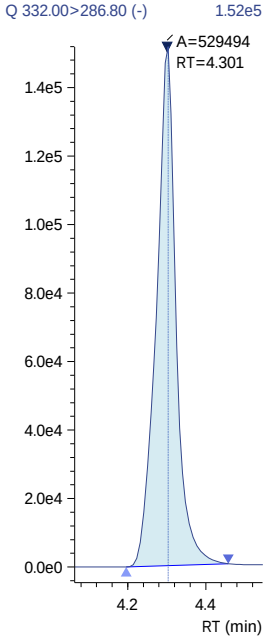


HPFO_DA
Conc 1.0079
R#1 104.97 (101.52)

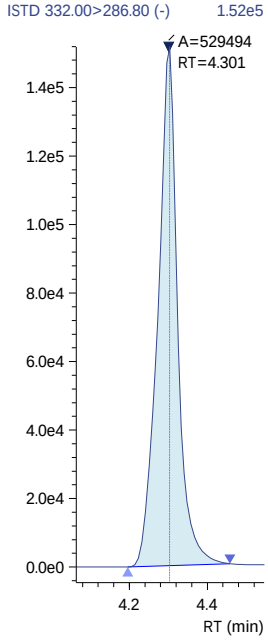




HFPO_DA-13C
Conc 5.9247



HFPO_DA-13C_IS
Conc 5.0000



1st UA 09/15/21
2nd [redacted] 09/16/21

Validation Report

Data File: J:\LCMS06\Data\210914_B1\210914_015
Lab ID: KQ2117883-01
RunType: CCV
Matrix: Soil

Date Acquired: 9/14/21 13:31
Batch ID: 738712
Analysis Method: PFC/537M/PFAS

Validations

Validation Categories	Pass	Fail
ICAL Analyte Recovery	X	
Second Source ICAL Verification	X	
Internal Standards	X	
Above Highest ICAL Level	X	

Primary Review: _____

Secondary Review: _____

1st UA 09/15/21
2nd 09/16/21

Quantitation Report

Data File:	J:\LCMS06\Data\210914_B1\210914_015	**Instrument:**	K-LCMS-06
Acqu Date:	9/14/21 13:31	**Vial:**	1
Run Type:	CCV	**Dilution:**	1
Lab ID:	KQ2117883-01	**Raw Units:**	ng/mL

Bottle ID:		**Tier:**	IV	**Matrix:**	Soil
Prod Code:	PFAS	**Collect Date:**	8/5/21	**Receive Date:**	8/6/21

Analysis Lot:	738712	**Prep Lot:**		**Report Group:**	KQ2117883
Analysis	PFC/537M	**Prep Method:**			
		Prep Date:			

Title:	Per- and Polyfluoroalkyl Substances (PFAS) by LC/MS/MS	**Calibration ID:**	KC2100481
		Report List ID:	20091

Internal Standard Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	Area Criteria
13C7-PFUnDA	5.122		4454644	5.0000	OK

Surrogate Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	Rpt?
13C3-PFBS	4.028		460099	4.7505	Y
18O2-PFHxS	4.411		393016	5.6891	Y
13C4-PFOS	4.744		517323	5.4800	Y
13C4-PFBA	3.404		1787264	5.1437	Y
13C5-PFPeA	3.974		1011240	5.0923	Y
13C2-PFHxA	4.229		2741361	4.8650	Y
13C4-PFHpA	4.411		2711751	5.3065	Y
13C4-PFOA	4.582		3589908	5.2547	Y
13C5-PFNA	4.756		3098205	5.2637	Y
13C2-PFDA	4.942		2436765	5.9545	Y
13C2-PFUnDA	5.122		3209986	5.2022	Y
13C2-PFDoDA	5.290		3467096	5.0941	Y
13C2-PFTeDA	5.593		3146839	4.6081	Y
13C8-FOSA	5.225		1448241	5.1113	Y
D3-MeFOSA	5.598		283377	4.4574	Y
D5-EtFOSA	5.719		361840	4.8856	Y
D7-MeFOSE	5.574		392782	4.0123	Y
D9-EtFOSE	5.692		443669	4.7858	Y
D3-MeFOSAA	5.040		437414	3.8893	Y
D5-EtFOSAA	5.134		362620	3.8130	Y
13C2-4:2 FTS	4.205		621616	5.8974	Y
13C2-6:2 FTS	4.572		603872	6.7808	Y
13C2-8:2 FTS	4.941		479697	7.4096	Y
13C3-HFPO-DA	4.297		587226	6.1518	Y

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Printed: 9/14/21 19:07
\\alprews001\starlims$\LIMSReps\QuantValidation.rpt

1st UA 09/15/21
2nd 09/16/21

Data File:	J:\LCMS06\Data\210914_B1\210914_015	**Instrument:**	K-LCMS-06
Acqu Date:	9/14/21 13:31	**Vial:**	1
Run Type:	CCV	**Dilution:**	1
Lab ID:	KQ2117883-01	**Raw Units:**	ng/mL

Target Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	Rpt?
Perfluorobutane sulfonic acid (PFBS)	4.028		150226	0.9645	Y
Perfluoropentane sulfonic acid (PFPeS)	4.245		66665	1.0090	Y
Perfluorohexane sulfonic acid (PFHxS)	4.409		109792	0.8499	Y
Perfluoroheptane sulfonic acid (PFHpS)	4.575		127801	0.9464	Y
Perfluorooctane sulfonic acid (PFOS)	4.744		91906	0.9493	Y
Perfluorononane sulfonic acid (PFNS)	4.924		69302	0.9857	Y
Perfluorodecane sulfonic acid (PFDS)	5.102		124567	1.0228	Y
Perfluorobutanoic acid (PFBA)	3.405		399959	0.9969	Y
Perfluoropentanoic acid (PFPeA)	3.974		667752	1.0514	Y
Perfluorohexanoic acid (PFHxA)	4.229		660795	0.9225	Y
Perfluoroheptanoic acid (PFHpA)	4.411		628527	0.9607	Y
Perfluorooctanoic acid (PFOA)	4.582		1010157	1.0263	Y
Perfluorononanoic acid (PFNA)	4.756		671149	1.0476	Y
Perfluorodecanoic acid (PFDA)	4.943		736093	1.0715	Y
Perfluoroundecanoic acid (PFUnDA)	5.122		701900	0.9879	Y
Perfluorododecanoic acid (PFDoDA)	5.291		702631	1.1379	Y
Perfluorotridecanoic acid (PFTrDA)	5.446		774479	1.2054	Y
Perfluorotetradecanoic acid (PFTeDA)	5.593		663612	0.9524	Y
Perfluorooctane sulfonamide (FOSA)	5.225		351196	1.0112	Y
N-Methyl perfluorooctane sulfonamide (MeFOSA)	5.600		123436	1.1441	Y
N-Ethyl perfluorooctane sulfonamide (EtFOSA)	5.724		21563	0.9832	Y
N-Methyl perfluorooctane sulfonamidoethanol	5.582		164360	1.1641	Y
N-Ethyl perfluorooctane sulfonamidoethanol	5.701		144799	0.9416	Y
N-Methyl perfluorooctane sulfonamidoacetic acid	5.042		82688	1.1390	Y
N-Ethyl perfluorooctane sulfonamidoacetic acid	5.137		63700	1.1802	Y
4:2 Fluorotelomer sulfonic acid (4:2 FTS)	4.204		126281	1.1251	Y
6:2 Fluorotelomer sulfonic acid (6:2 FTS)	4.570		163463	1.0374	Y
8:2 Fluorotelomer sulfonic acid (8:2 FTS)	4.940		93286	1.0179	Y
10:2 Fluorotelomer sulfonic acid (10:2 FTS)	5.297		65762	0.8839	Y
Hexafluoropropylene oxide dimer acid (HFPO-DA)	4.297		108953	0.9281	Y

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Insight Report
Quantitation/Integration
Printed 9/14/2021 18:48:54

210914_015

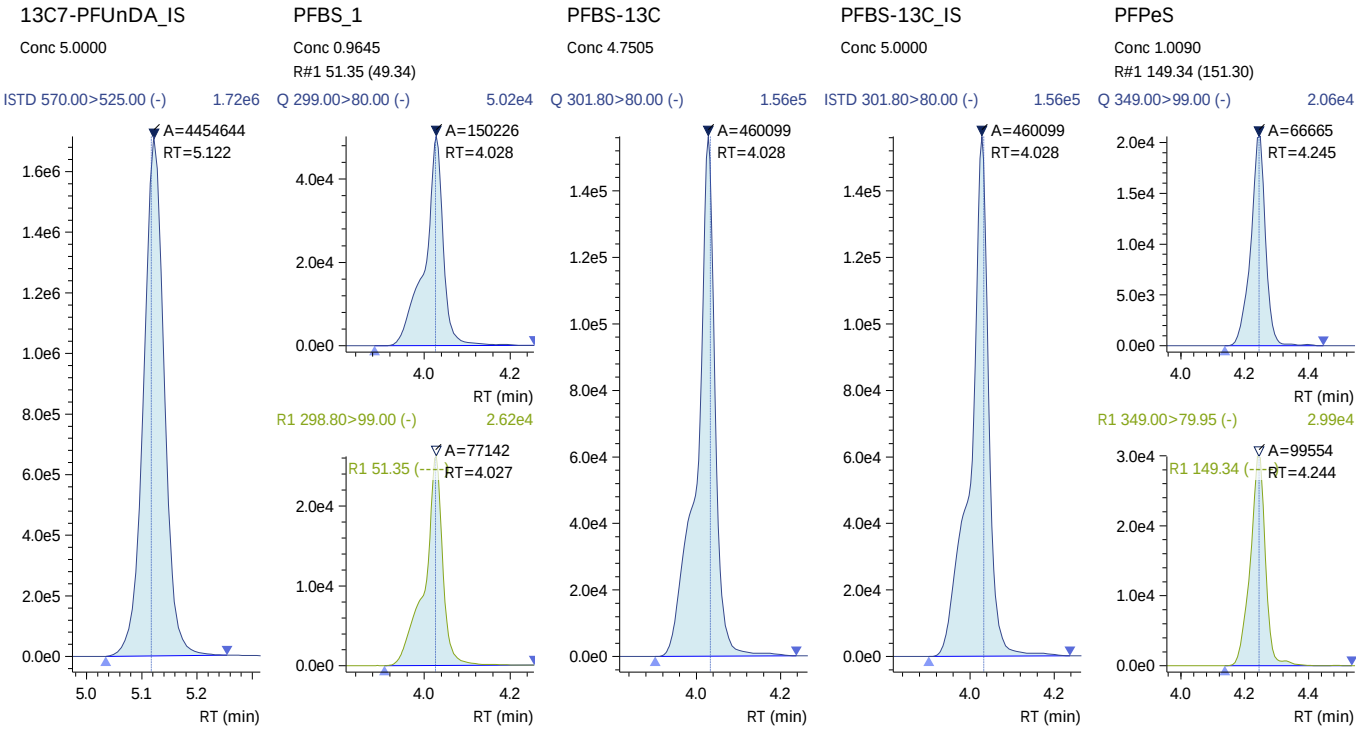
Sample ID: PFC CCV @ 1.0ppb
Date Acquired: 9/14/2021 1:31:31 PM
Acquired by: System Administrator
Data File: 210914_015
Vial: 4 | Inj. Volume: 15.0000uL | Tray: 0

Name	Mode ID	Found RT	Area	ISTD Area	ISTD Name	Std. Conc.	Conc.	Unit
13C7-PFUnDA_IS	Auto	5.122	4454644	4454644	----	----	5.0000	ng/mL
PFBS_1	Auto	4.028	150226	460099	PFBS-13C_IS	----	0.9645	ng/mL
PFBS-13C	Auto	4.028	460099	4454644	13C7-PFUnDA_IS	----	4.7505	ng/mL
PFBS-13C_IS	Auto	4.028	460099	460099	----	----	5.0000	ng/mL
PFPeS	Auto	4.245	66665	460099	PFBS-13C_IS	----	1.0090	ng/mL
PFHxS_1	Auto	4.409	109792	393016	PFHxS-18O_IS	----	0.8499	ng/mL
PFHxS-18O	Auto	4.411	393016	4454644	13C7-PFUnDA_IS	----	5.6891	ng/mL
PFHxS-18O_IS	Auto	4.411	393016	393016	----	----	5.0000	ng/mL
PFHpS_1	Auto	4.575	127801	393016	PFHxS-18O_IS	----	0.9464	ng/mL
PFOS_1	Auto	4.744	91906	517323	PFOS-13C_IS	----	0.9493	ng/mL
PFOS-13C	Auto	4.744	517323	4454644	13C7-PFUnDA_IS	----	5.4800	ng/mL
PFOS-13C_IS	Auto	4.744	517323	517323	----	----	5.0000	ng/mL
PFNS	Auto	4.924	69302	517323	PFOS-13C_IS	----	0.9857	ng/mL
PFDS_1	Auto	5.102	124567	517323	PFOS-13C_IS	----	1.0228	ng/mL
PFBA	Auto	3.405	399959	1787264	PFBA-13C_IS	----	0.9969	ng/mL
PFBA-13C	Auto	3.404	1787264	4454644	13C7-PFUnDA_IS	----	5.1437	ng/mL
PFBA-13C_IS	Auto	3.404	1787264	1787264	----	----	5.0000	ng/mL
PFPeA	Auto	3.974	667752	1011240	PFPeA-13C_IS	----	1.0514	ng/mL
PFPeA-13C	Auto	3.974	1011240	4454644	13C7-PFUnDA_IS	----	5.0923	ng/mL
PFPeA-13C_IS	Auto	3.974	1011240	1011240	----	----	5.0000	ng/mL
PFHxA	Auto	4.229	660795	2741361	PFHxA-13C_IS	----	0.9225	ng/mL
PFHxA-13C	Auto	4.229	2741361	4454644	13C7-PFUnDA_IS	----	4.8650	ng/mL
PFHxA-13C_IS	Auto	4.229	2741361	2741361	----	----	5.0000	ng/mL
PFHpA	Auto	4.411	628527	2711751	PFHpA-13C_IS	----	0.9607	ng/mL
PFHpA-13C	Auto	4.411	2711751	4454644	13C7-PFUnDA_IS	----	5.3065	ng/mL
PFHpA-13C_IS	Auto	4.411	2711751	2711751	----	----	5.0000	ng/mL
PFOA	Auto	4.582	1010157	3589908	PFOA-13C_IS	----	1.0263	ng/mL
PFOA-13C	Auto	4.582	3589908	4454644	13C7-PFUnDA_IS	----	5.2547	ng/mL
PFOA-13C_IS	Auto	4.582	3589908	3589908	----	----	5.0000	ng/mL
PFNA	Auto	4.756	671149	3098205	PFNA-13C_IS	----	1.0476	ng/mL
PFNA-13C	Auto	4.756	3098205	4454644	13C7-PFUnDA_IS	----	5.2637	ng/mL
PFNA-13C_IS	Auto	4.756	3098205	3098205	----	----	5.0000	ng/mL
PFDA	Auto	4.943	736093	2436765	PFDA-13C_IS	----	1.0715	ng/mL
PFDA-13C	Auto	4.942	2436765	4454644	13C7-PFUnDA_IS	----	5.9545	ng/mL
PFDA-13C_IS	Auto	4.942	2436765	2436765	----	----	5.0000	ng/mL
PFUnA	Auto	5.122	701900	3209986	PFUnA-13C_IS	----	0.9879	ng/mL
PFUnA-13C	Auto	5.122	3209986	4454644	13C7-PFUnDA_IS	----	5.2022	ng/mL
PFUnA-13C_IS	Auto	5.122	3209986	3209986	----	----	5.0000	ng/mL
PFDoA	Auto	5.291	702631	3467096	PFDoA-13C_IS	----	1.1379	ng/mL
PFDoA-13C	Auto	5.290	3467096	4454644	13C7-PFUnDA_IS	----	5.0941	ng/mL
PFDoA-13C_IS	Auto	5.290	3467096	3467096	----	----	5.0000	ng/mL
PFTrDA	Auto	5.446	774479	3146839	PFTeDA-13C_IS	----	1.2054	ng/mL
PFTeDA	Auto	5.593	663612	3146839	PFTeDA-13C_IS	----	0.9524	ng/mL
PFTeDA-13C	Auto	5.593	3146839	4454644	13C7-PFUnDA_IS	----	4.6081	ng/mL
PFTeDA-13C_IS	Auto	5.593	3146839	3146839	----	----	5.0000	ng/mL
FOSA	Auto	5.225	351196	1448241	FOSA-13C_IS	----	1.0112	ng/mL
FOSA-13C	Auto	5.225	1448241	4454644	13C7-PFUnDA_IS	----	5.1113	ng/mL
FOSA-13C_IS	Auto	5.225	1448241	1448241	----	----	5.0000	ng/mL
N-MeFOSA	Auto	5.600	123436	283377	N-MeFOSA-d3_IS	----	1.1441	ng/mL
N-MeFOSA-d3	Auto	5.598	283377	4454644	13C7-PFUnDA_IS	----	4.4574	ng/mL
N-MeFOSA-d3_IS	Auto	5.598	283377	283377	----	----	5.0000	ng/mL
N-EtFOSA	Auto	5.724	21563	361840	N-EtFOSA-d9_IS	----	0.9832	ng/mL
N-EtFOSA-d9	Auto	5.719	361840	4454644	13C7-PFUnDA_IS	----	4.8856	ng/mL
N-EtFOSA-d9_IS	Auto	5.719	361840	361840	----	----	5.0000	ng/mL

210914_015 (continued)

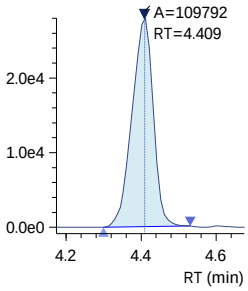
(Table continued from previous page)

Name	Mode ID	Found RT	Area	ISTD Area	ISTD Name	Std. Conc.	Conc.	Unit
N-MeFOSE	Auto	5.582	164360	392782	N-MeFOSE-d7_IS	----	1.1641	ng/mL
N-MeFOSE-d7	Auto	5.574	392782	4454644	13C7-PFUnDA_IS	----	4.0123	ng/mL
N-MeFOSE-d7_IS	Auto	5.574	392782	392782	----	----	5.0000	ng/mL
N-EtFOSE	Auto	5.701	144799	443669	N-EtFOSE-d9_IS	----	0.9416	ng/mL
N-EtFOSE-d9	Auto	5.692	443669	4454644	13C7-PFUnDA_IS	----	4.7858	ng/mL
N-EtFOSE-d9_IS	Auto	5.692	443669	443669	----	----	5.0000	ng/mL
N-MeFOSAA	Auto	5.042	82688	437414	N-MeFOSAA-d3_IS	----	1.1390	ng/mL
N-MeFOSAA-d3	Auto	5.040	437414	4454644	13C7-PFUnDA_IS	----	3.8893	ng/mL
N-MeFOSAA-d3_IS	Auto	5.040	437414	437414	----	----	5.0000	ng/mL
N-EtFOSAA	Auto	5.137	63700	362620	N-EtFOSAA-d5_IS	----	1.1802	ng/mL
N-EtFOSAA-d5	Auto	5.134	362620	4454644	13C7-PFUnDA_IS	----	3.8130	ng/mL
N-EtFOSAA-d5_IS	Auto	5.134	362620	362620	----	----	5.0000	ng/mL
4_2-FTS_1	Auto	4.204	126281	621616	4_2-FTS-13C_IS	----	1.1251	ng/mL
4_2-FTS-13C	Auto	4.205	621616	4454644	13C7-PFUnDA_IS	----	5.8974	ng/mL
4_2-FTS-13C_IS	Auto	4.205	621616	621616	----	----	5.0000	ng/mL
6_2-FTS_1	Auto	4.570	163463	603872	6_2-FTS-13C_IS	----	1.0374	ng/mL
6_2-FTS-13C	Auto	4.572	603872	4454644	13C7-PFUnDA_IS	----	6.7808	ng/mL
6_2-FTS-13C_IS	Auto	4.572	603872	603872	----	----	5.0000	ng/mL
8_2-FTS_1	Auto	4.940	93286	479697	8_2-FTS-13C_IS	----	1.0179	ng/mL
8_2-FTS-13C	Auto	4.941	479697	4454644	13C7-PFUnDA_IS	----	7.4096	ng/mL
8_2-FTS-13C_IS	Auto	4.941	479697	479697	----	----	5.0000	ng/mL
10_2-FtS_1	Auto	5.297	65762	479697	8_2-FTS-13C_IS	----	0.8839	ng/mL
HFPO_DA	Auto	4.297	108953	587226	HFPO_DA-13C_IS	----	0.9281	ng/mL
HFPO_DA-13C	Auto	4.297	587226	4454644	13C7-PFUnDA_IS	----	6.1518	ng/mL
HFPO_DA-13C_IS	Auto	4.297	587226	587226	----	----	5.0000	ng/mL

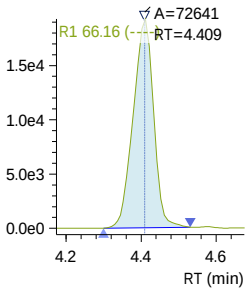


210914_015 (continued)

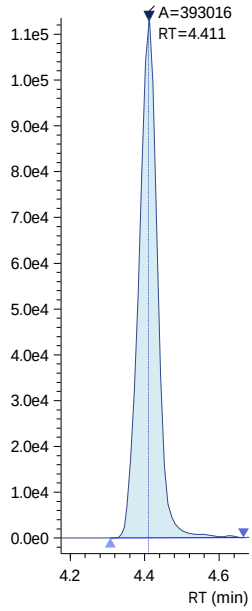
PFHxS_1
Conc 0.8499
R#1 66.16 (62.92)
Q 399.00>80.00 (-) 2.80e4



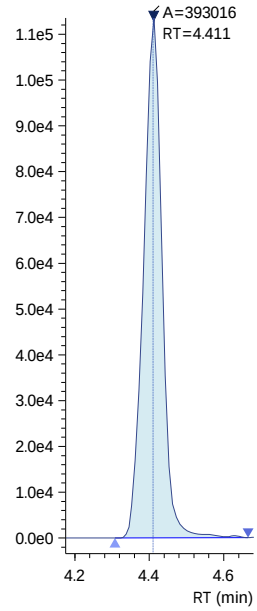
R1 399.00>99.00 (-) 1.93e4



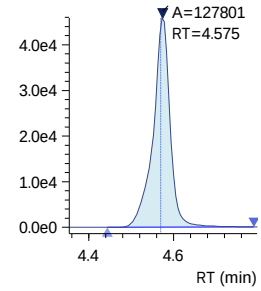
PFHxS-18O
Conc 5.6891
Q 402.70>84.05 (-) 1.14e5



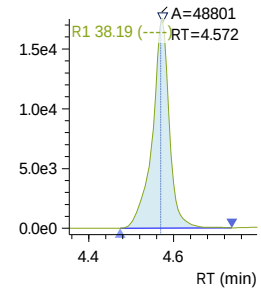
PFHxS-18O_IS
Conc 5.0000
ISTD 402.70>84.05 (-) 1.14e5



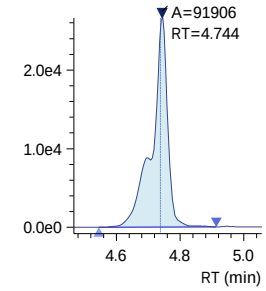
PFHpS_1
Conc 0.9464
R#1 38.19 (40.53)
Q 449.00>80.15 (-) 4.59e4



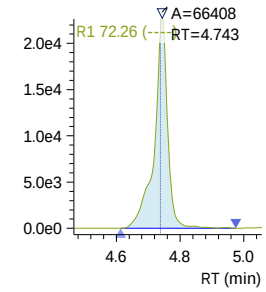
R1 449.00>99.20 (-) 1.75e4



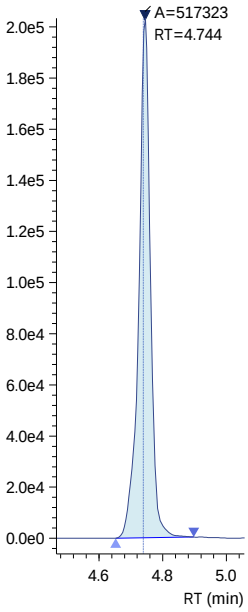
PFOS_1
Conc 0.9493
R#1 72.26 (73.81)
Q 499.00>80.00 (-) 2.66e4



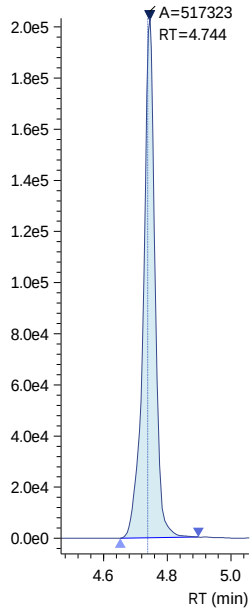
R1 499.00>99.00 (-) 2.26e4



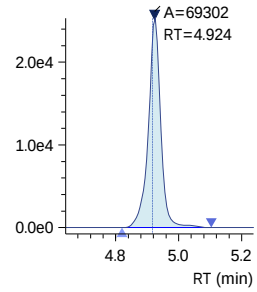
PFOS-13C
Conc 5.4800
Q 502.80>80.05 (-) 2.03e5



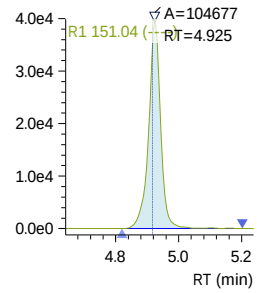
PFOS-13C_IS
Conc 5.0000
ISTD 502.80>80.05 (-) 2.03e5



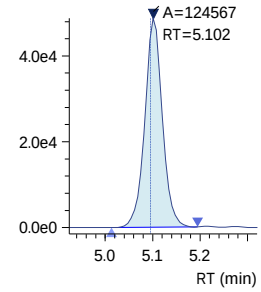
PFNS
Conc 0.9857
R#1 151.04 (160.25)
Q 549.00>99.00 (-) 2.53e4



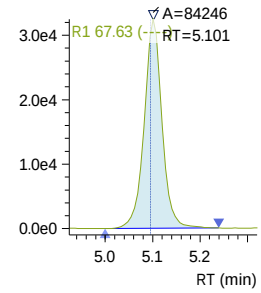
R1 549.00>79.95 (-) 3.99e4



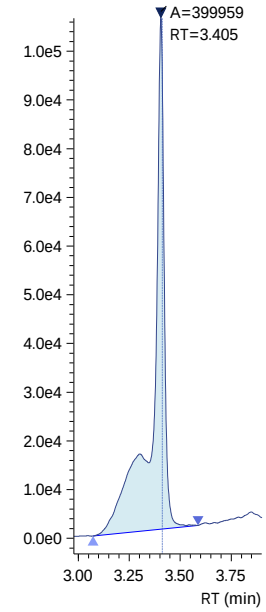
PFDS_1
Conc 1.0228
R#1 67.63 (72.12)
Q 599.00>79.90 (-) 4.88e4



R1 599.00>99.10 (-) 3.25e4

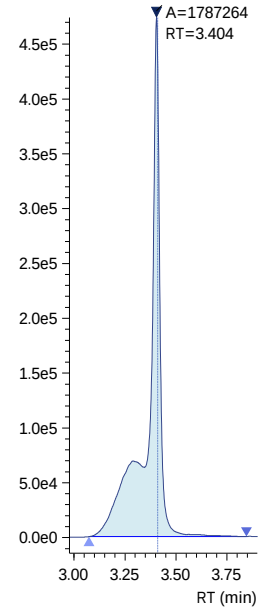


PFBA
Conc 0.9969
Q 213.00>169.10 (-) 1.07e5

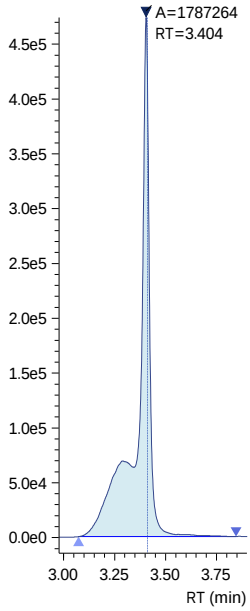


210914_015 (continued)

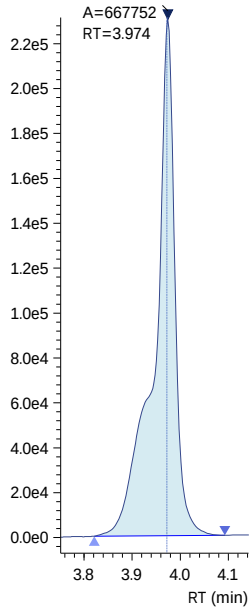
PFBA-13C
Conc 5.1437
Q 216.90>172.15 (-) 4.74e5



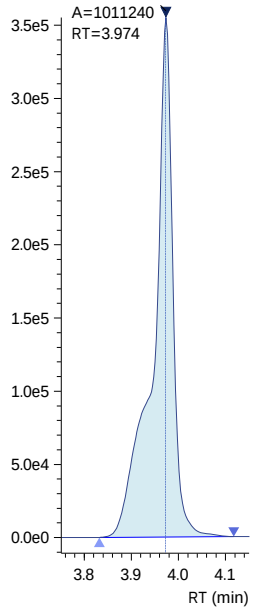
PFBA-13C_IS
Conc 5.0000
ISTD 216.90>172.15 (-) 4.74e5



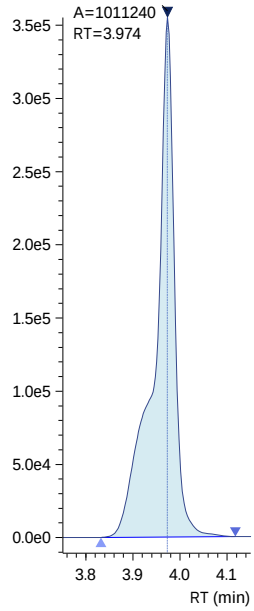
PFPeA
Conc 1.0514
Q 263.05>219.10 (-) 2.32e5



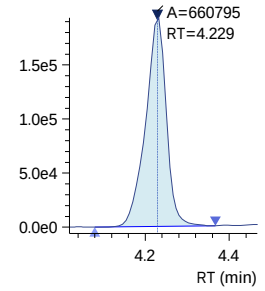
PFPeA-13C
Conc 5.0923
Q 267.90>223.00 (-) 3.55e5



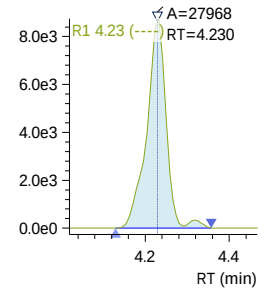
PFPeA-13C_IS
Conc 5.0000
ISTD 267.90>223.00 (-) 3.55e5



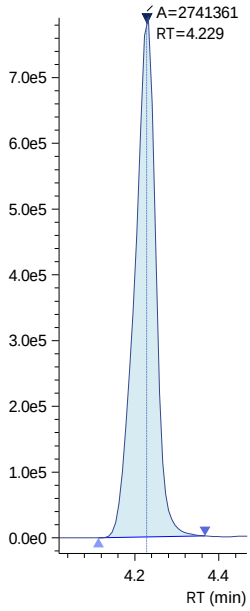
PFHxA
Conc 0.9225
R#1 4.23 (4.40)
Q 313.00>269.00 (-) 1.94e5



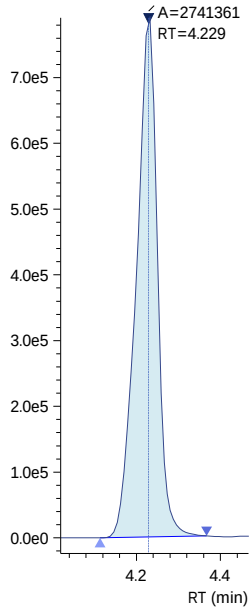
R1 313.00>119.10 (-) 8.74e3



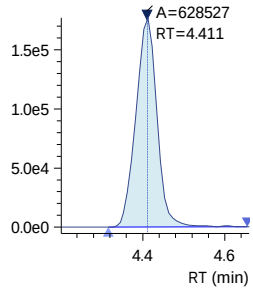
PFHxA-13C
Conc 4.8650
Q 314.90>270.10 (-) 7.91e5



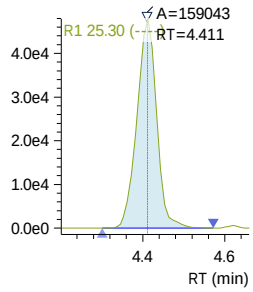
PFHxA-13C_IS
Conc 5.0000
ISTD 314.90>270.10 (-) 7.91e5



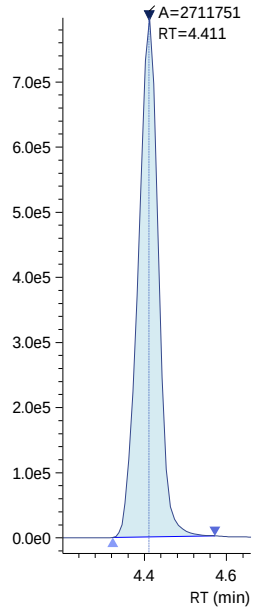
PFHpA
Conc 0.9607
R#1 25.30 (24.40)
Q 362.90>319.00 (-) 1.77e5



R1 362.90>169.00 (-) 4.79e4

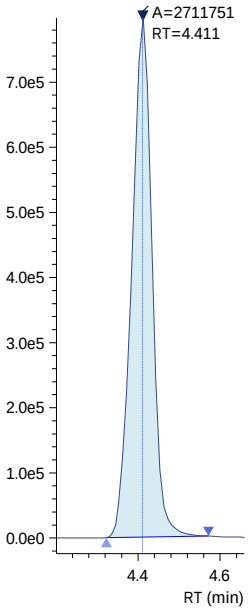


PFHpA-13C
Conc 5.3065
Q 366.90>322.10 (-) 7.99e5

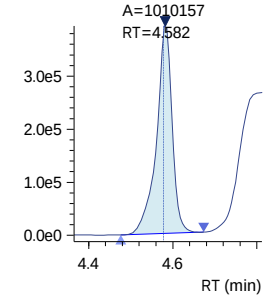


210914_015 (continued)

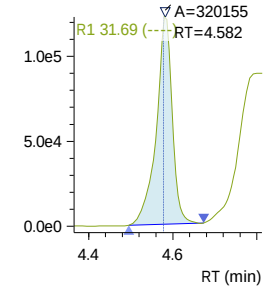
PFHpA-13C_IS
Conc 5.0000
ISTD 366.90>322.10 (-) 7.99e5



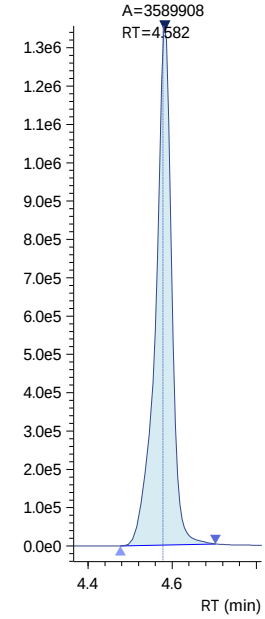
PFOA
Conc 1.0263
R#1 31.69 (31.89)
Q 413.00>369.00 (-) 3.95e5



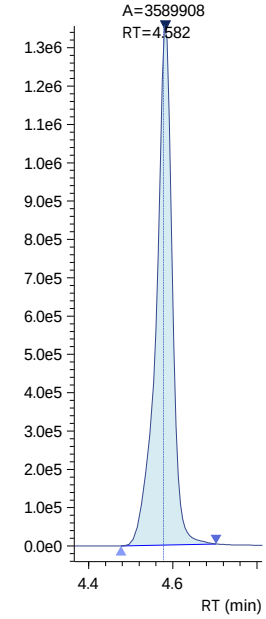
R1 413.00>169.10 (-) 1.23e5



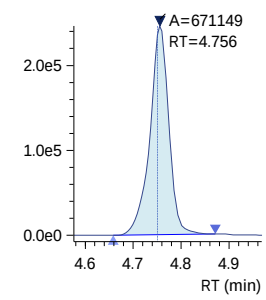
PFOA-13C
Conc 5.2547
Q 416.80>372.05 (-) 1.36e6



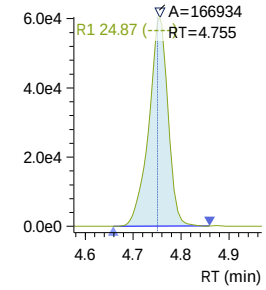
PFOA-13C_IS
Conc 5.0000
ISTD 416.80>372.05 (-) 1.36e6



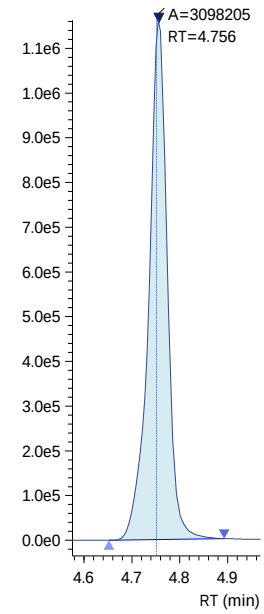
PFNA
Conc 1.0476
R#1 24.87 (23.25)
Q 463.00>418.90 (-) 2.47e5



R1 463.00>219.00 (-) 6.05e4



PFNA-13C
Conc 5.2637
Q 467.80>423.00 (-) 1.16e6



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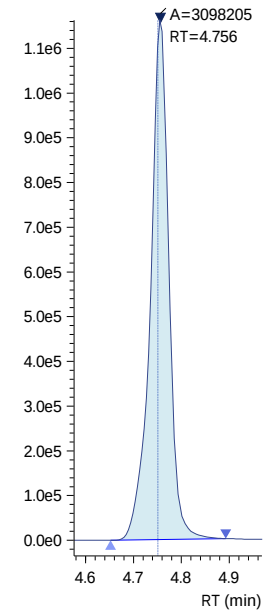
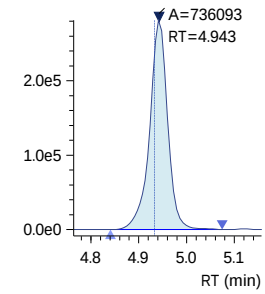
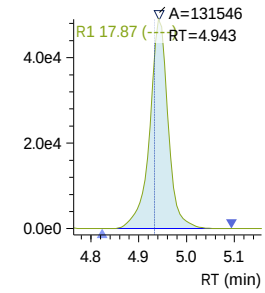
Conc 5.0000
ISTD 467.80>423.00 (-) 1.16e6



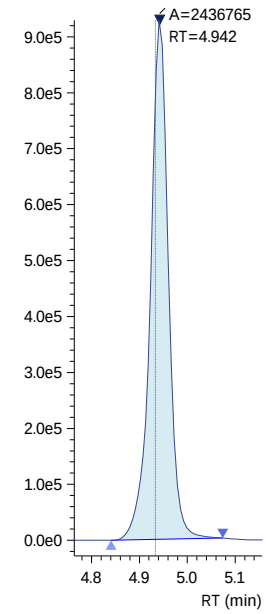
PFDA
Conc 1.0715
R#1 17.87 (20.24)
Q 513.00>468.80 (-) 2.81e5



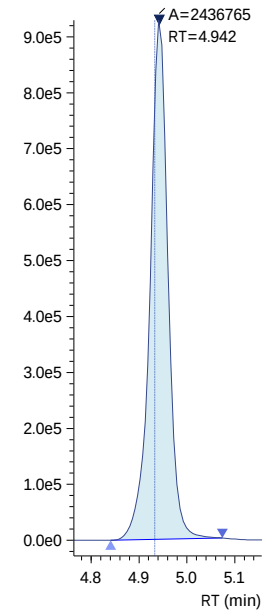
R1 513.00>219.10 (-) 4.90e4



PFDA-13C
Conc 5.9545
Q 514.80>469.95 (-) 9.30e5

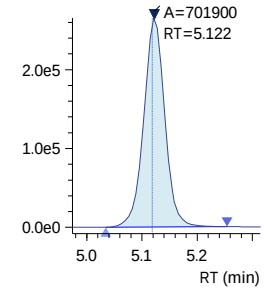


PFDA-13C_IS
Conc 5.0000
ISTD 514.80>469.95 (-) 9.30e5

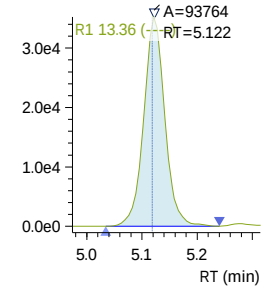


210914_015 (continued)

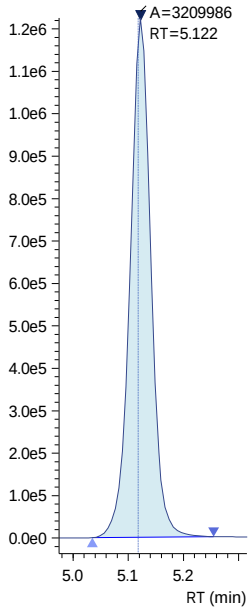
PFUnA
Conc 0.9879
R#1 13.36 (12.46)
Q 563.00>518.90 (-) 2.66e5



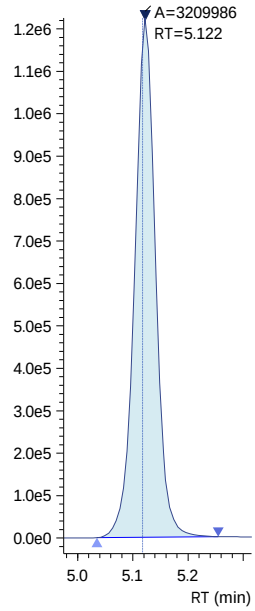
R1 563.00>219.00 (-) 3.52e4



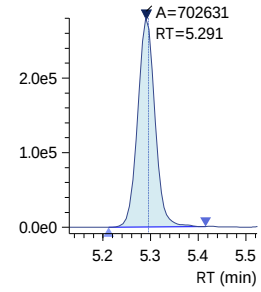
PFUnA-13C
Conc 5.2022
Q 564.80>519.95 (-) 1.23e6



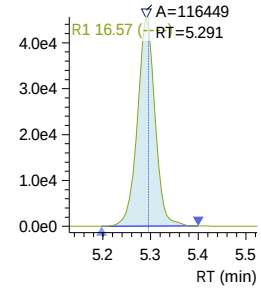
PFUnA-13C_IS
Conc 5.0000
ISTD 564.80>519.95 (-) 1.23e6



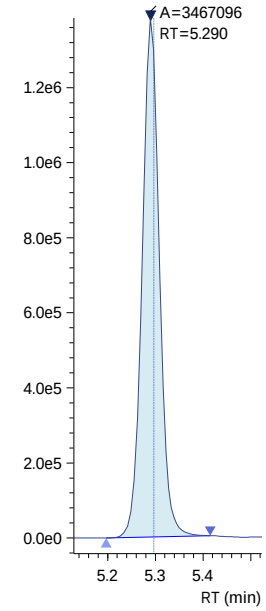
PFDoA
Conc 1.1379
R#1 16.57 (16.50)
Q 613.05>569.00 (-) 2.81e5



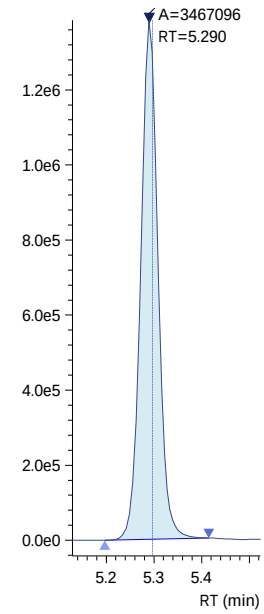
R1 613.05>169.00 (-) 4.56e4



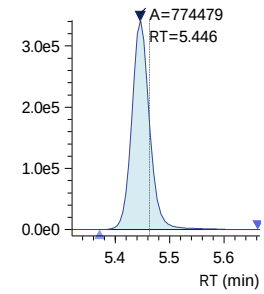
PFDoA-13C
Conc 5.0941
Q 614.80>569.95 (-) 1.39e6



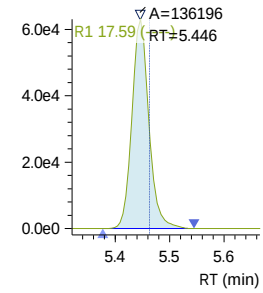
PFDoA-13C_IS
Conc 5.0000
ISTD 614.80>569.95 (-) 1.39e6



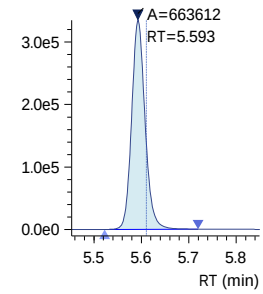
PFTrDA
Conc 1.2054
R#1 17.59 (15.29)
Q 663.00>618.90 (-) 3.42e5



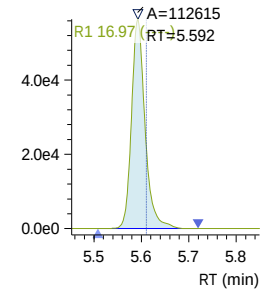
R1 662.90>169.00 (-) 6.31e4



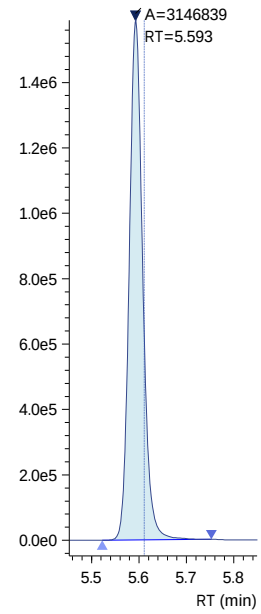
PFTeDA
Conc 0.9524
R#1 16.97 (17.47)
Q 713.00>669.00 (-) 3.35e5



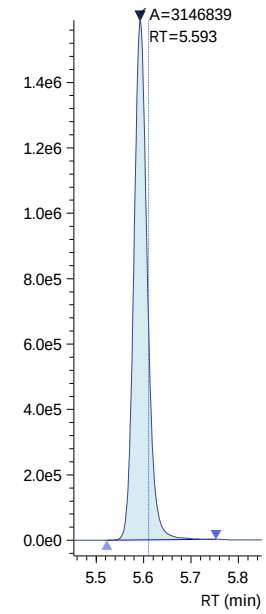
R1 713.00>169.10 (-) 5.64e4



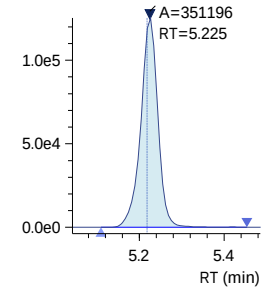
PFTeDA-13C
Conc 4.6081
Q 714.70>669.90 (-) 1.59e6

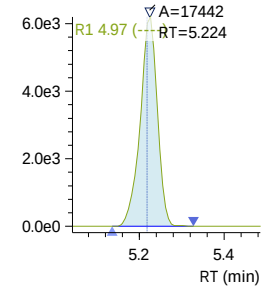


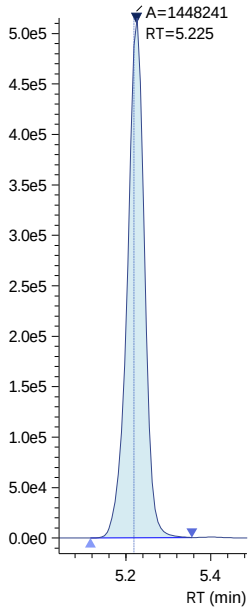
PFTeDA-13C_IS
Conc 5.0000
ISTD 714.70>669.90 (-) 1.59e6

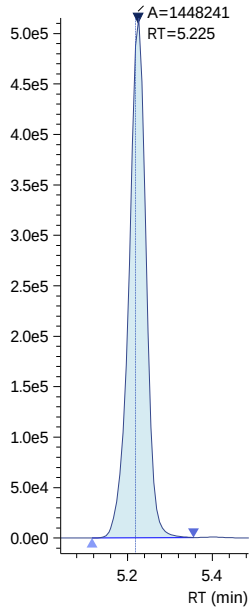


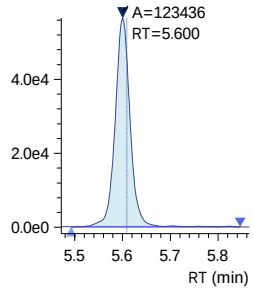
210914_015 (continued)

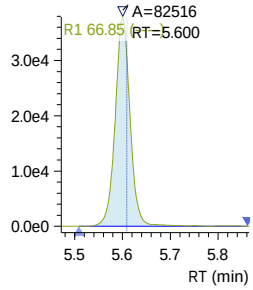
FOSA
Conc 1.0112
R#1 4.97 (5.19)
Q 498.20>78.00 (-) 1.25e5


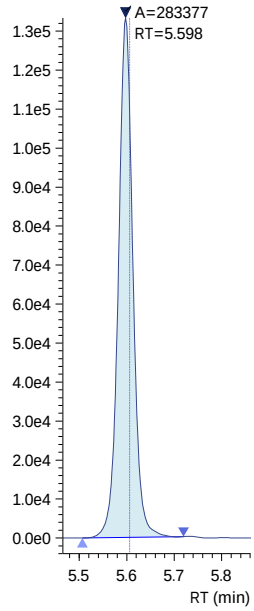
R1 498.20>64.10 (-) 6.20e3


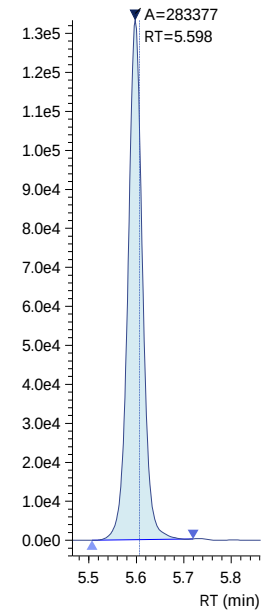
FOSA-13C
Conc 5.1113
Q 506.00>78.05 (-) 5.15e5


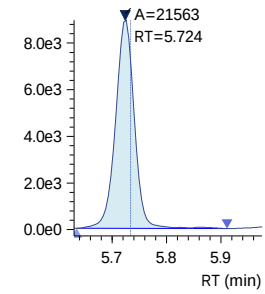
FOSA-13C_IS
Conc 5.0000
ISTD 506.00>78.05 (-) 5.15e5


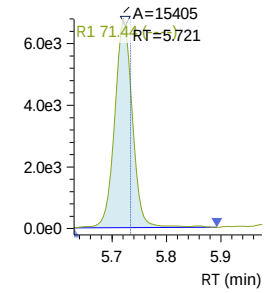
N-MeFOSA
Conc 1.1441
R#1 66.85 (69.94)
Q 512.00>169.10 (-) 5.66e4


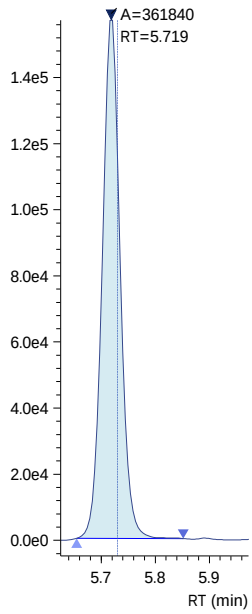
R1 512.00>219.00 (-) 3.79e4


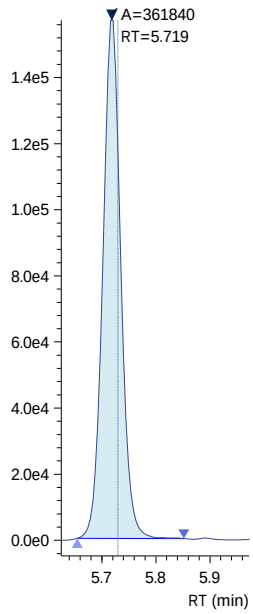
N-MeFOSA-d3
Conc 4.4574
Q 514.90>168.90 (-) 1.33e5


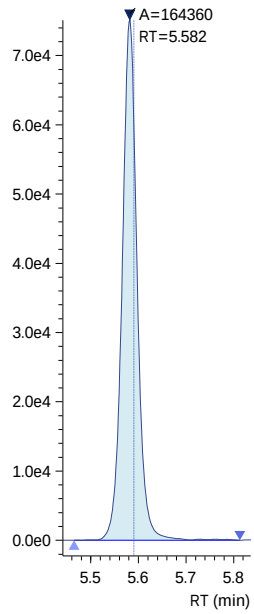
N-MeFOSA-d3_IS
Conc 5.0000
ISTD 514.90>168.90 (-) 1.33e5


N-EtFOSA
Conc 0.9832
R#1 71.44 (66.52)
Q 526.90>169.10 (-) 8.98e3


R1 526.90>219.00 (-) 6.79e3


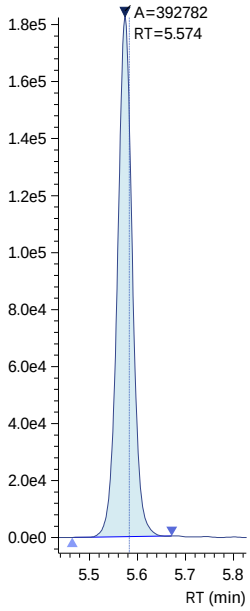
N-EtFOSA-d9
Conc 4.8856
Q 530.90>169.15 (-) 1.57e5


N-EtFOSA-d9_IS
Conc 5.0000
ISTD 530.90>169.15 (-) 1.57e5


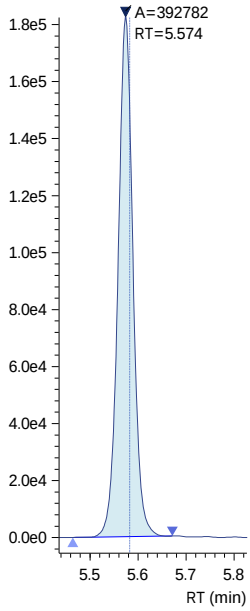
N-MeFOSE
Conc 1.1641
Q 616.00>59.00 (-) 7.51e4


210914_015 (continued)

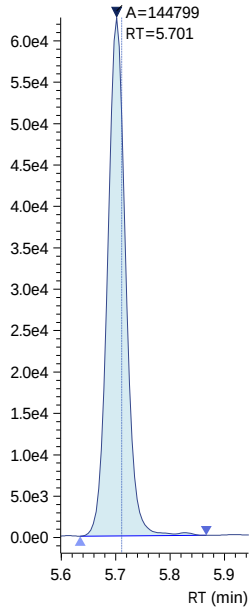
N-MeFOSE-d7
Conc 4.0123
Q 622.70>59.10 (-) 1.82e5



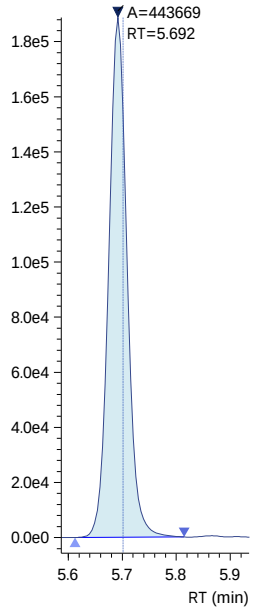
N-MeFOSE-d7_IS
Conc 5.0000
ISTD 622.70>59.10 (-) 1.82e5



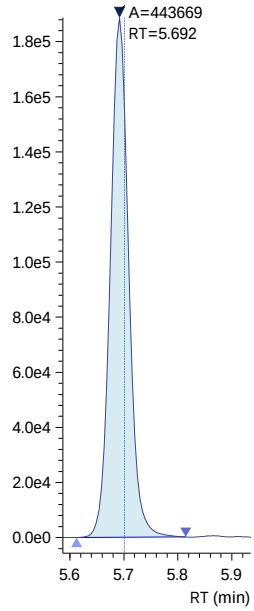
N-EtFOSE
Conc 0.9416
Q 630.00>58.90 (-) 6.28e4



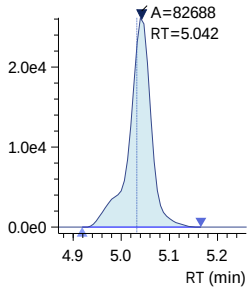
N-EtFOSE-d9
Conc 4.7858
Q 638.70>59.10 (-) 1.89e5



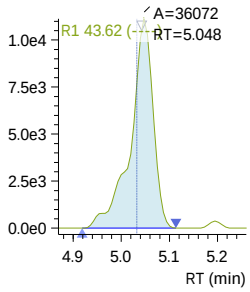
N-EtFOSE-d9_IS
Conc 5.0000
ISTD 638.70>59.10 (-) 1.89e5



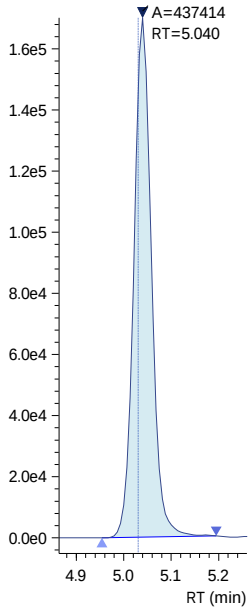
N-MeFOSAA
Conc 1.1390
R#1 43.62 (39.56)
Q 570.20>419.00 (-) 2.62e4



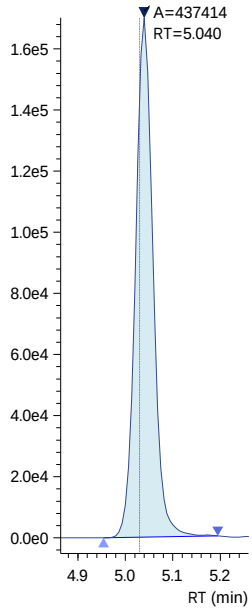
R1 570.20>512.00 (-) 1.11e4



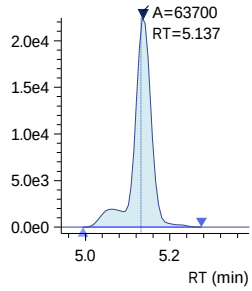
N-MeFOSAA-d3
Conc 3.8893
Q 572.80>419.05 (-) 1.70e5



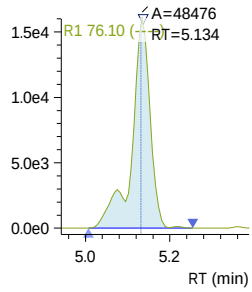
N-MeFOSAA-d3_IS
Conc 5.0000
ISTD 572.80>419.05 (-) 1.70e5



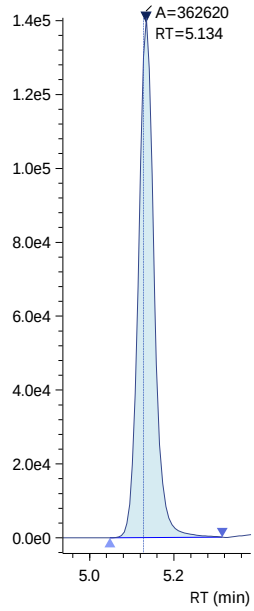
N-EtFOSAA
Conc 1.1802
R#1 76.10 (84.54)
Q 584.20>418.95 (-) 2.25e4



R1 584.20>526.10 (-) 1.60e4

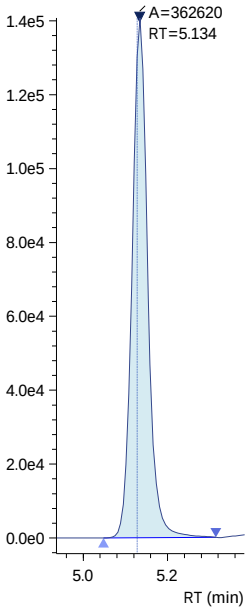


N-EtFOSAA-d5
Conc 3.8130
Q 588.80>419.00 (-) 1.41e5

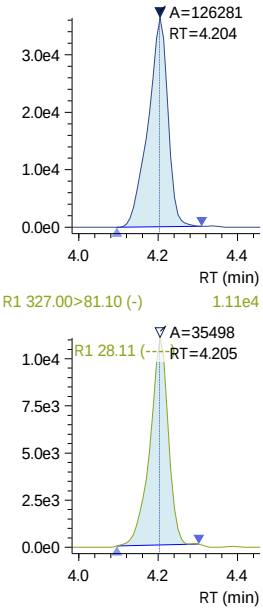


210914_015 (continued)

N-EtFOSAA-d5_IS
Conc 5.0000
ISTD 588.80>419.00 (-) 1.41e5

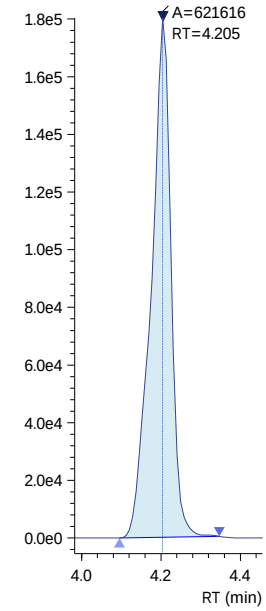


4_2-FTS_1
Conc 1.1251
R#1 28.11 (34.12)
Q 327.00>307.05 (-) 3.64e4

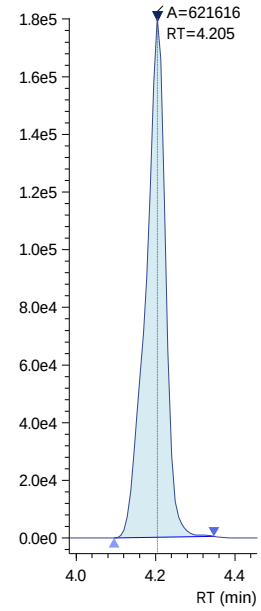


R1 327.00>81.10 (-) 1.11e4

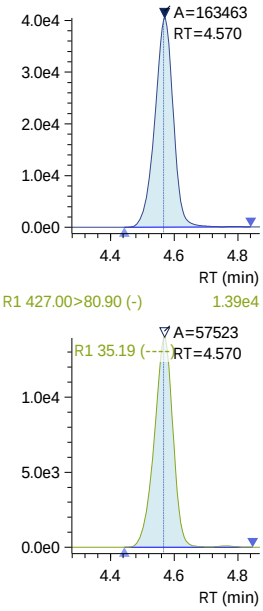
4_2-FTS-13C
Conc 5.8974
Q 328.80>309.05 (-) 1.80e5



4_2-FTS-13C_IS
Conc 5.0000
ISTD 328.80>309.05 (-) 1.80e5

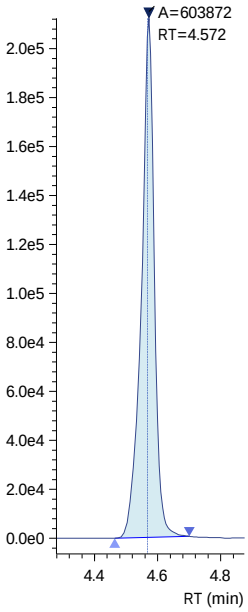


6_2-FTS_1
Conc 1.0374
R#1 35.19 (37.36)
Q 427.00>407.00 (-) 4.05e4

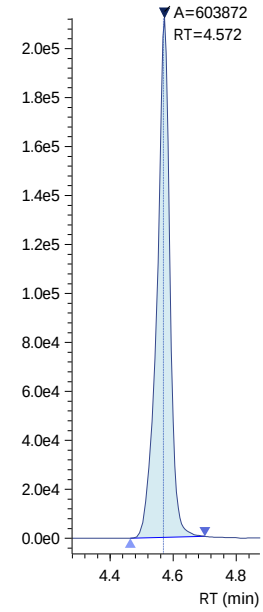


R1 427.00>80.90 (-) 1.39e4

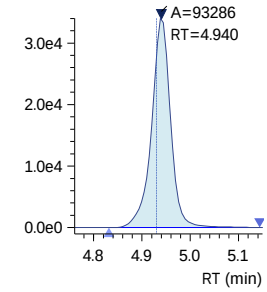
6_2-FTS-13C
Conc 6.7808
Q 428.90>409.00 (-) 2.12e5



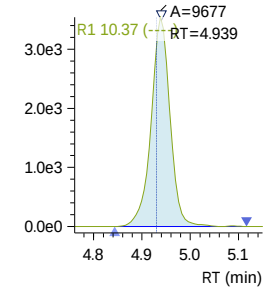
6_2-FTS-13C_IS
Conc 5.0000
ISTD 428.90>409.00 (-) 2.12e5



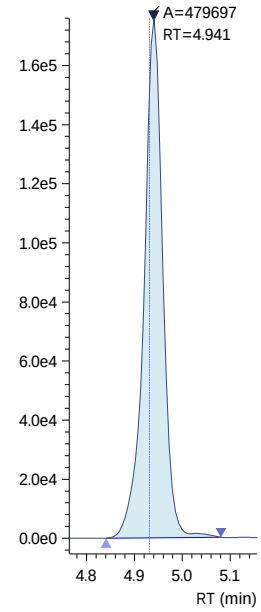
8_2-FTS_1
Conc 1.0179
R#1 10.37 (10.63)
Q 527.10>506.90 (-) 3.40e4



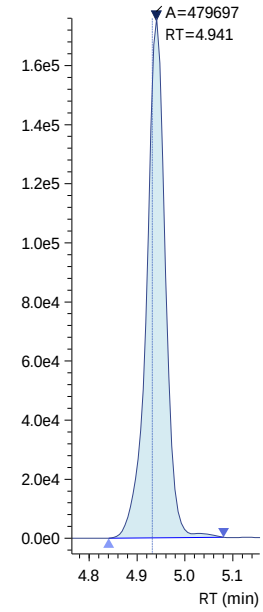
R1 527.20>487.00 (-) 3.54e3



8_2-FTS-13C
Conc 7.4096
Q 528.80>509.00 (-) 1.76e5

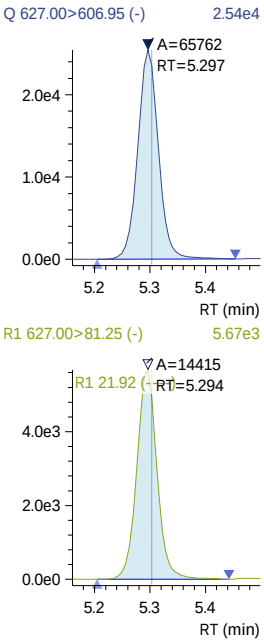


8_2-FTS-13C_IS
Conc 5.0000
ISTD 528.80>509.00 (-) 1.76e5

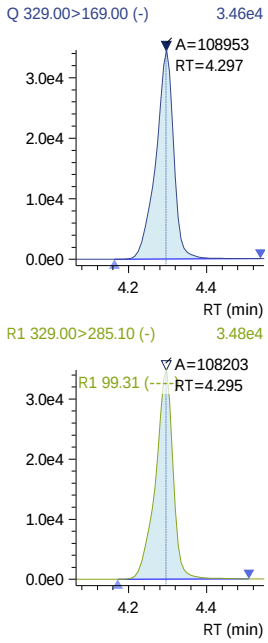


210914_015 (continued)

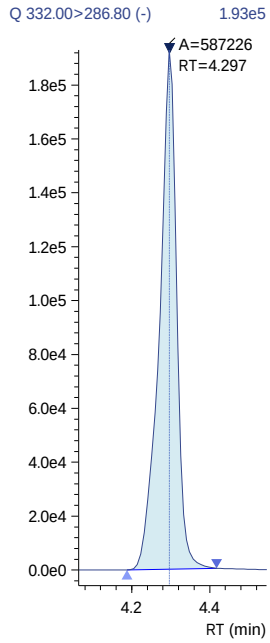
10_2-FtS_1
Conc 0.8839
R#1 21.92 (21.61)



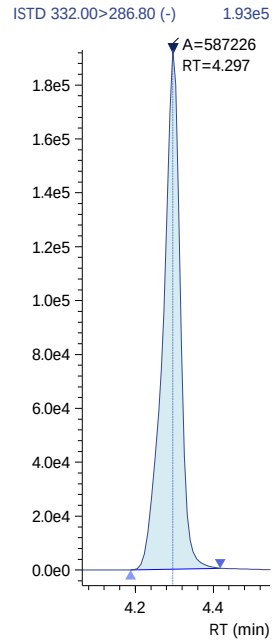
HPFO_DA
Conc 0.9281
R#1 99.31 (106.46)



HFPO_DA-13C
Conc 6.1518



HFPO_DA-13C_IS
Conc 5.0000



210819_curve

ALS Environmental

		ICAL Date:	8/19/2021
		Std. xp:	12/12/21 (ICV xp 9/30/21; TPFOA xp 2/17/22)
leview:	U. Amadioha	ICAL ID:	KC2100446
Review:		LIMS ID:	NA

Injection Log

LCMS06 -Shimadzu 8050

mn: Phenomenex EVO-C18 100X4.6 mm S/N: H21-242279

ile Phases A: 5mM Ammonium Acetate in H2O 21-OLC-02-02L B: 5mM Ammonium Acetate In MeOH 21-OLC-02-10I

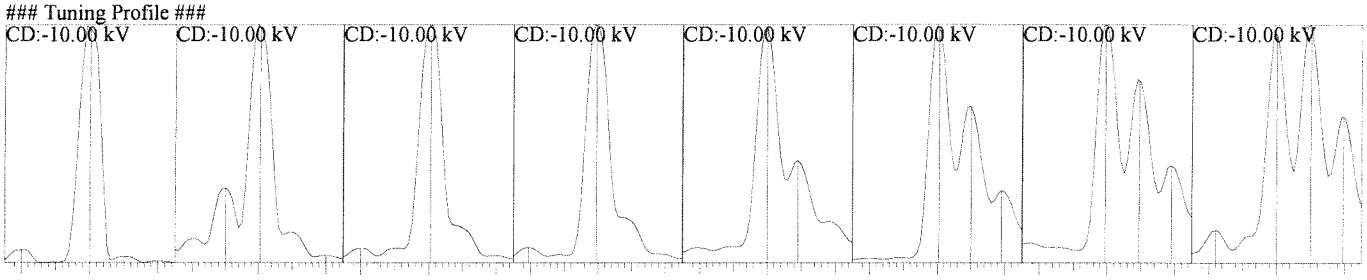
Sample Name		File Name	Acqulsition Method	Dilution	R	
CCB	21-OLC-02-11I	210819_019	PFAS_updated_210724_30_AREAS_LCMS06.lcm	1x	☒	
PFC ICAL @ 0.05ppb	21-OLC-02-11B	210819_020	PFAS_updated_210724_30_AREAS_LCMS06.lcm	1x	☒	4:2-FTS failed Ion Ratio, MRL met req.
PFC ICAL @ 0.10ppb	21-OLC-02-11C	210819_021	PFAS_updated_210724_30_AREAS_LCMS06.lcm	1x	☒	4:2-FTS passes Ion Ratio
PFC ICAL @ 0.50ppb	21-OLC-02-11D	210819_022	PFAS_updated_210724_30_AREAS_LCMS06.lcm	1x	☒	
PFC ICAL @ 1.0ppb	21-OLC-02-11E	210819_023	PFAS_updated_210724_30_AREAS_LCMS06.lcm	1x	☒	
PFC ICAL @ 5.0ppb	21-OLC-02-11F	210819_024	PFAS_updated_210724_30_AREAS_LCMS06.lcm	1x	☒	
PFC ICAL @ 10ppb	21-OLC-02-11G	210819_025	PFAS_updated_210724_30_AREAS_LCMS06.lcm	1x	☒	
CCB	21-OLC-02-11I	210819_026	PFAS_updated_210724_30_AREAS_LCMS06.lcm	1x	☒	
PFC ICAL @ 15ppb	21-OLC-02-11H	210819_027	PFAS_updated_210724_30_AREAS_LCMS06.lcm	1x	☒	
CCB	21-OLC-02-11I	210819_028	PFAS_updated_210724_30_AREAS_LCMS06.lcm	1x	☒	
PFC ICV @ 1.0ppb	21-OLC-02-10A	210819_029	PFAS_updated_210724_30_AREAS_LCMS06.lcm	1x	☒	
EtFOSAA + MeFOSAA ICV @ 1p	21-OLC-02-17C	210819_030	PFAS_updated_210724_30_AREAS_LCMS06.lcm	1x	☒	For EtFOSAA & MeFOSAA
Tech PFOA	21-OLC-02-15B	210819_031	PFAS_updated_210724_30_AREAS_LCMS06.lcm	1x		

Sample Information
Sample Type: PEG+PPG+Raffinose

Tuning Condition
Detector Adjustment: On
Resolution Adjustment: On
FWHM of Spectrum: 0.70
Sensitivity Adjustment: On
Mass Calibration: On

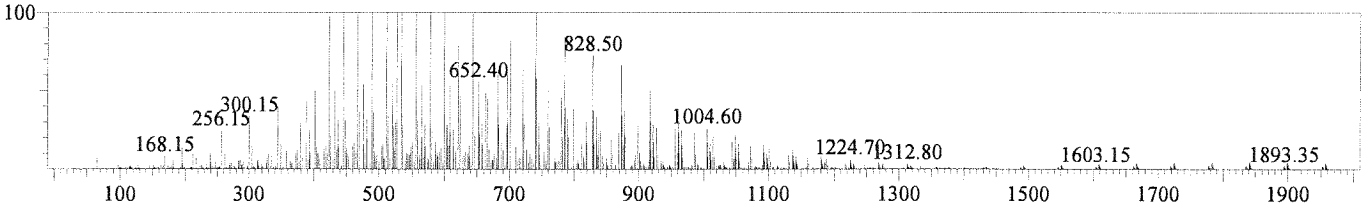
Tuning Result
Model :LCMS-8050
Serial Number :O10835355039US
Interface :ESI
Polarity :Positive
Tuning Mode :Auto Tuning
Tuning Date :8/19/2021 4:36:11 PM
Acquisition Mode :Q1 Scan(Use CID Gas)
Nebulizing Gas Flow :1.50(settings : 1.50) L/min
Drying Gas Flow :0.00(settings : 10.00) L/min
CID Gas Flow :270(settings : 270) kPa
Heating Gas Flow :5.00(settings : 5.00) L/Min
Interface Bias :+4.00 kV
Interface Current :2.25 uA
Interface Temp. :100(settings : 100) C
DL Temp. :250(settings : 250) C
Heat Block Temp. :399(settings : 400) C
Q1 RF Gain :4999
Q1 RF Offset :5000
Q3 RF Gain :---
Q3 RF Offset :---
Q1 Post-rod Bias :-5.0 V
CID CELL Exit Lens :-4.0 V
Conversion Dynode :-10.00 kV
Detector :-2.26(-2.26) kV
Vacuum Pressure(QA) :1.5e+02 Pa
Vacuum Pressure(QP) :2.1e-03 Pa

Tuning Profile



Int.: 7698548	Int.: 1507313	Int.: 4973001	Int.: 6692054	Int.: 10697810	Int.: 4728868	Int.: 1134133	Int.: 344813
FWHM: 0.70	FWHM: 0.73	FWHM: 0.74	FWHM: 0.73	FWHM: 0.69	FWHM: 0.68	FWHM: 0.68	FWHM: 0.71
m/z : 45.05	m/z : 168.10	m/z : 256.15	m/z : 300.20	m/z : 652.40	m/z : 1004.60	m/z : 1224.75	m/z : 1603.15
Mag.: 2	Mag.: 13	Mag.: 4	Mag.: 2	Mag.: 1	Mag.: 4	Mag.: 17	Mag.: 58

Scan Range: 2.00 - 2000.00 Scan Speed: 30 u/s Base Peak: 445.35 (20000000)



m/z(Target)	m/z(Actual)	Difference	Width	Intensity
45.05	45.05	0.00	0.70	7698548
168.10	168.15	0.05	0.73	1507313
256.15	256.15	0.00	0.74	4973001
300.20	300.15	-0.05	0.73	6692054
652.40	652.40	0.00	0.69	10697810
1004.60	1004.60	0.00	0.68	4728868
1224.75	1224.70	-0.05	0.68	1134133
1603.15	1603.15	0.00	0.71	344813

8/23/21

AUG 20 2021

Autotune_081921.lct

C:¥LabSolutions¥Data¥Tune_Files¥Autotune_081821.lct

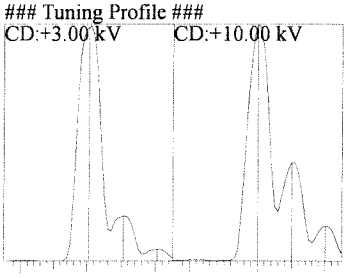
Tuning Condition

Detector Adjustment:	On
Resolution Adjustment:	On
FWHM of Spectrum:	0.70
Sensitivity Adjustment:	On
Mass Calibration:	On

Tuning Result

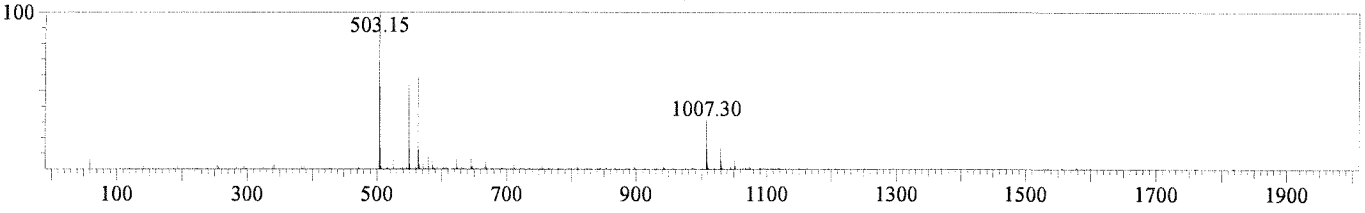
Model	:LCMS-8050
Serial Number	:O10835355039US
Interface	:ESI
Polarity	:Negative
Tuning Mode	:Auto Tuning
Tuning Date	:8/19/2021 4:40:44 PM
Acquisition Mode	:Q1 Scan(Use CID Gas)
Nebulizing Gas Flow	:1.50(settings : 1.50) L/min
Heating Gas Flow	:4.98(settings : 5.00) L/Min
Interface Bias	:-3.00 kV
Interface Current	:5.35 uA
Interface Temp.	:100(settings : 100) C
DL Temp.	:249(settings : 250) C
Heat Block Temp.	:400(settings : 400) C
Q1 RF Gain	:5000
Q1 RF Offset	:5000
Q3 RF Gain	:---
Q3 RF Offset	:---
Q1 Post-rod Bias	:5.0 V
CID CELL Exit Lens	:3.5 V
Conversion Dynode	:+10.00 kV
Detector	:-2.26(-2.26) kV
Vacuum Pressure(QA)	:1.5e+02 Pa
Vacuum Pressure(QP)	:2.1e-03 Pa

Tuning Profile



Int.: 13085635	Int.: 6260030
FWHM: 0.75	FWHM: 0.72
m/z : 503.15	m/z : 1007.30
Mag.: 1	Mag.: 3

Scan Range: 2.00 - 2000.00 Scan Speed: 30 u/s Base Peak: 503.15 (20000000)



m/z(Target)	m/z(Actual)	Difference	Width	Intensity
503.15	503.15	0.00	0.75	13085635
1007.30	1007.30	0.00	0.72	6260030

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AUG 2 0 2021

C:¥LabSolutions¥Data¥Tune_Files¥Autotune_081821.lct

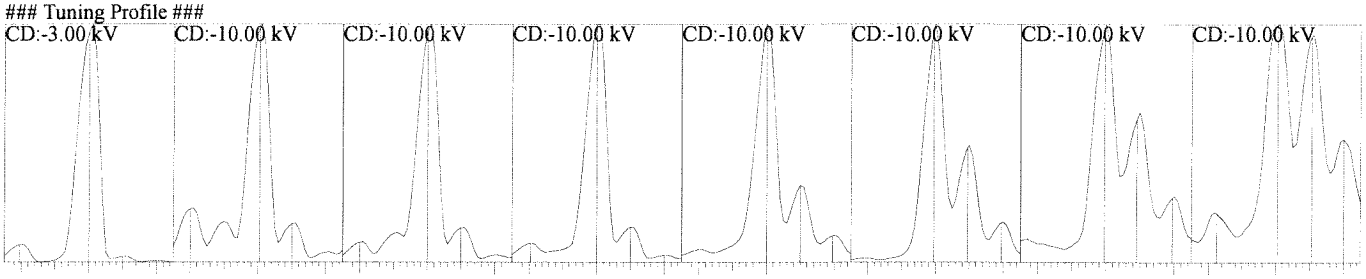
Tuning Condition

Detector Adjustment:	On
Resolution Adjustment:	On
FWHM of Spectrum:	0.70
Sensitivity Adjustment:	On
Mass Calibration:	On

Tuning Result

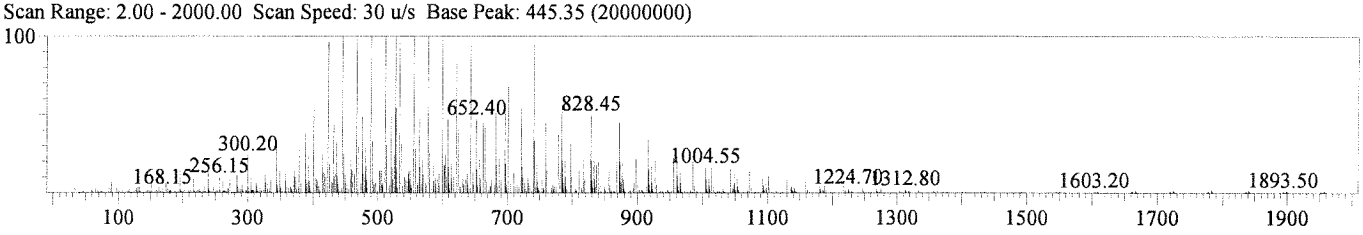
Model	:LCMS-8050
Serial Number	:O10835355039US
Interface	:ESI
Polarity	:Positive
Tuning Mode	:Auto Tuning
Tuning Date	:8/19/2021 4:44:37 PM
Acquisition Mode	:Q3 Scan(Use CID Gas)
Nebulizing Gas Flow	:1.50(settings : 1.50) L/min
Heating Gas Flow	:5.00(settings : 5.00) L/min
Interface Bias	:+4.00 kV
Interface Current	:2.12 uA
Interface Temp.	:99(settings : 100) C
DL Temp.	:250(settings : 250) C
Heat Block Temp.	:400(settings : 400) C
Q1 RF Gain	:---
Q1 RF Offset	:---
Q3 RF Gain	:4997
Q3 RF Offset	:4990
Q1 Post-rod Bias	:-5.0 V
CID CELL Exit Lens	:-4.0 V
Conversion Dynode	:-10.00 kV
Detector	:-2.26(-2.26) kV
Vacuum Pressure(QA)	:1.4e+02 Pa
Vacuum Pressure(QP)	:2.1e-03 Pa

Tuning Profile



Int.: 14760864	Int.: 532572	Int.: 2016845	Int.: 5004371	Int.: 9418139	Int.: 3248529	Int.: 560686	Int.: 121338
FWHM: 0.71	FWHM: 0.68	FWHM: 0.68	FWHM: 0.67	FWHM: 0.66	FWHM: 0.65	FWHM: 0.72	FWHM: 0.81
m/z : 45.05	m/z : 168.10	m/z : 256.15	m/z : 300.20	m/z : 652.40	m/z : 1004.60	m/z : 1224.75	m/z : 1603.15
Mag.: 1	Mag.: 36	Mag.: 9	Mag.: 3	Mag.: 2	Mag.: 5	Mag.: 34	Mag.: 164

Scan Range: 2.00 - 2000.00 Scan Speed: 30 u/s Base Peak: 445.35 (20000000)



m/z(Target)	m/z(Actual)	Difference	Width	Intensity
45.05	45.05	0.00	0.71	14760864
168.10	168.15	0.05	0.68	532572
256.15	256.15	0.00	0.68	2016845
300.20	300.20	0.00	0.67	5004371
652.40	652.40	0.00	0.66	9418139
1004.60	1004.55	-0.05	0.65	3248529
1224.75	1224.70	-0.05	0.72	560686
1603.15	1603.20	0.05	0.81	121338

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AUG 2 0 2021

C:¥LabSolutions¥Data¥Tune_Files¥Autotune_081821.lct

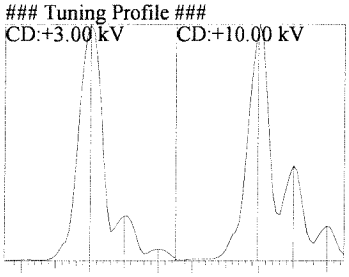
Tuning Condition

Detector Adjustment:	On
Resolution Adjustment:	On
FWHM of Spectrum:	0.70
Sensitivity Adjustment:	On
Mass Calibration:	On

Tuning Result

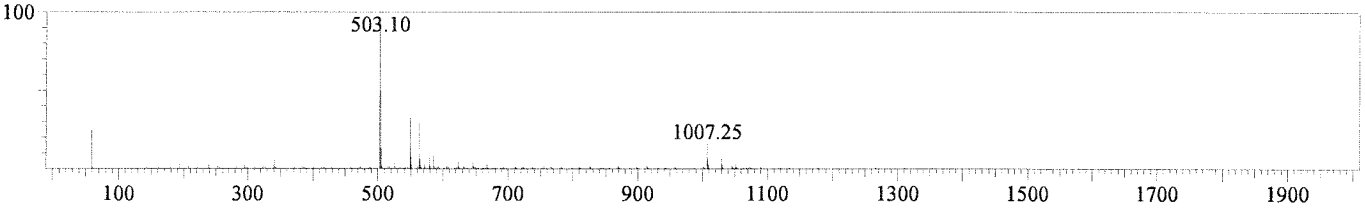
Model	:LCMS-8050
Serial Number	:O10835355039US
Interface	:ESI
Polarity	:Negative
Tuning Mode	:Auto Tuning
Tuning Date	:8/19/2021 4:48:02 PM
Acquisition Mode	:Q3 Scan(Use CID Gas)
Nebulizing Gas Flow	:1.50(settings : 1.50) L/min
Heating Gas Flow	:5.00(settings : 5.00) L/Min
Interface Bias	:-3.00 kV
Interface Current	:9.72 uA
Interface Temp.	:100(settings : 100) C
DL Temp.	:250(settings : 250) C
Heat Block Temp.	:400(settings : 400) C
Q1 RF Gain	:---
Q1 RF Offset	:---
Q3 RF Gain	:4999
Q3 RF Offset	:5000
Q1 Post-rod Bias	:5.0 V
CID CELL Exit Lens	:3.5 V
Conversion Dynode	:+10.00 kV
Detector	:-2.26(-2.26) kV
Vacuum Pressure(QA)	:1.4e+02 Pa
Vacuum Pressure(QP)	:2.1e-03 Pa

Tuning Profile



Int.: 10674929	Int.: 3184535
FWHM: 0.74	FWHM: 0.67
m/z : 503.15	m/z : 1007.30
Mag.: 1	Mag.: 6

Scan Range: 2.00 - 2000.00 Scan Speed: 30 u/s Base Peak: 503.10 (20000000)



m/z(Target)	m/z(Actual)	Difference	Width	Intensity
503.15	503.10	-0.05	0.74	10674929
1007.30	1007.25	-0.05	0.67	3184535

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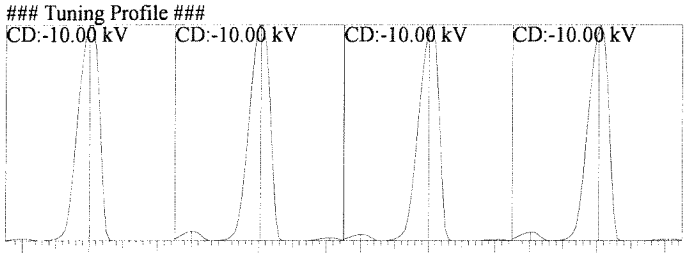
Tuning Condition

Detector Adjustment:	On
Resolution Adjustment:	On
FWHM of Spectrum:	0.70
Sensitivity Adjustment:	On
Mass Calibration:	On

Tuning Result

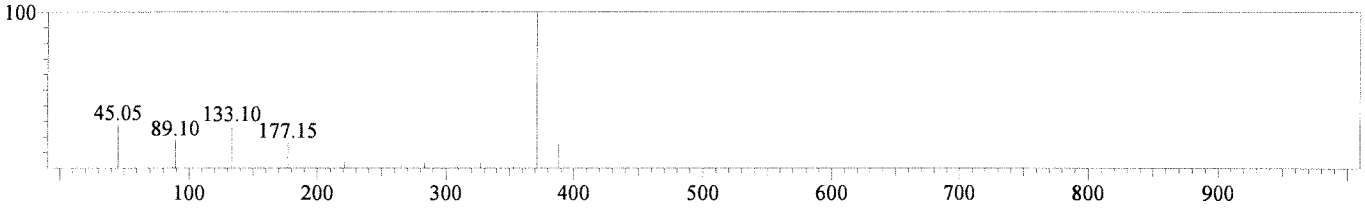
Model	:LCMS-8050
Serial Number	:O10835355039US
Interface	:ESI
Polarity	:Positive
Tuning Mode	:Auto Tuning
Tuning Date	:8/19/2021 4:51:44 PM
Acquisition Mode	:Product Ion Scan
Nebulizing Gas Flow	:1.50(settings : 1.50) L/min
Heating Gas Flow	:5.00(settings : 5.00) L/min
Interface Bias	:+4.00 kV
Interface Current	:2.37 uA
Interface Temp.	:99(settings : 100) C
DL Temp.	:250(settings : 250) C
Heat Block Temp.	:400(settings : 400) C
Q1 RF Gain	:4999
Q1 RF Offset	:5000
Q3 RF Gain	:4997
Q3 RF Offset	:4989
Q1 Post-rod Bias	:-5.0 V
CID CELL Exit Lens	:-1.7 V
Conversion Dynode	:-10.00 kV
Detector	:-2.26(-2.26) kV
Vacuum Pressure(QA)	:1.4e+02 Pa
Vacuum Pressure(QP)	:2.1e-03 Pa

Tuning Profile



Int.: 1192010	Int.: 777659	Int.: 1175209	Int.: 678175
FWHM: 0.73	FWHM: 0.69	FWHM: 0.68	FWHM: 0.67
m/z : 45.05	m/z : 89.05	m/z : 133.10	m/z : 177.10
Pre m/z: 388.25	Pre m/z: 388.25	Pre m/z: 388.25	Pre m/z: 388.25
Mag.: 16	Mag.: 25	Mag.: 16	Mag.: 28

Scan Range: 2.00 - 438.25 Scan Speed: 30 u/s Base Peak: 371.25 (4195551) Pre m/z: 388.25



m/z(Target)	m/z(Actual)	Difference	Width	Intensity
388.25 > 45.05	45.05	0.00	0.73	1192010
388.25 > 89.05	89.10	0.05	0.69	777659
388.25 > 133.10	133.10	0.00	0.68	1175209
388.25 > 177.10	177.15	0.05	0.67	678175

8/23/21

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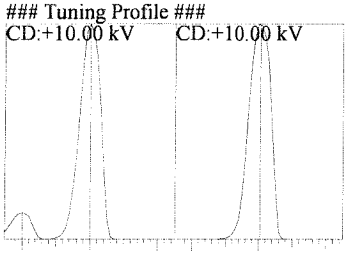
Tuning Condition

Detector Adjustment:	On
Resolution Adjustment:	On
FWHM of Spectrum:	0.70
Sensitivity Adjustment:	On
Mass Calibration:	On

Tuning Result

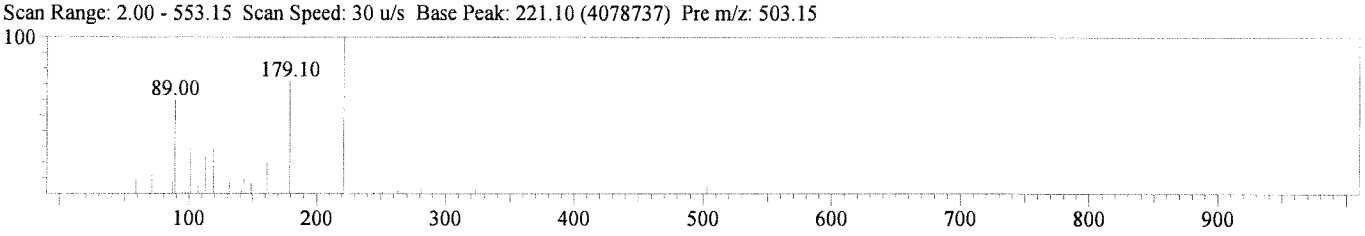
Model	:LCMS-8050
Serial Number	:O10835355039US
Interface	:ESI
Polarity	:Negative
Tuning Mode	:Auto Tuning
Tuning Date	:8/19/2021 4:51:44 PM
Acquisition Mode	:Product Ion Scan
Nebulizing Gas Flow	:1.50(settings : 1.50) L/min
Heating Gas Flow	:5.00(settings : 5.00) L/Min
Interface Bias	:-3.00 kV
Interface Current	:7.36 uA
Interface Temp.	:100(settings : 100) C
DL Temp.	:250(settings : 250) C
Heat Block Temp.	:399(settings : 400) C
Q1 RF Gain	:5000
Q1 RF Offset	:5000
Q3 RF Gain	:4999
Q3 RF Offset	:5009
Q1 Post-rod Bias	:5.0 V
CID CELL Exit Lens	:-0.1 V
Conversion Dynode	:+10.00 kV
Detector	:-2.26(-2.26) kV
Vacuum Pressure(QA)	:1.4e+02 Pa
Vacuum Pressure(QP)	:2.1e-03 Pa

Tuning Profile



Int.: 2448028	Int.: 3005171
FWHM: 0.70	FWHM: 0.76
m/z : 89.00	m/z : 179.05
Pre m/z: 503.15	Pre m/z: 503.15
Mag.: 8	Mag.: 6

Scan Range: 2.00 - 553.15 Scan Speed: 30 u/s Base Peak: 221.10 (4078737) Pre m/z: 503.15



m/z(Target)	m/z(Actual)	Difference	Width	Intensity
503.15 > 89.00	89.00	0.00	0.70	2448028
503.15 > 179.05	179.10	0.05	0.76	3005171

8/23/21

AUG 20 2021

Insight Report
Retention Time/Signal:Noise Ratio Confirmation
Printed 8/20/2021 11:18:22

210819_019

Sample ID: CCB
Date Acquired: 8/19/2021 6:28:59 PM
Acquired by: System Administrator
Data File: 210819_019
Vial: 9 | Inj. Volume: 15.0000uL | Tray: 1

Name	m/z	Ref 1 m/z	Found RT	RT Diff	ISTD RT Diff	S/N	Ref 1 S/N	Flag ID
13C7-PFUnDA_IS	570.00>525.00	----	5.133	0.001	----	104526	----	
PFBS_1	299.00>80.00	298.80>99.00	4.031	-0.002	-0.004	13	5	IRr
PFBS-13C	301.80>80.00	----	4.035	0.002	-1.098	(INF)	----	
PFBS-13C_IS	301.80>80.00	----	4.035	0.002	----	(INF)	----	
PFPeS	349.00>99.00	349.00>79.95	4.277	0.024	0.242	4	(INF)	IRr, SN
PFHxS_1	399.00>80.00	399.00>99.00	4.422	0.008	0.002	21	8	
PFHxS-18O	402.70>84.05	----	4.420	0.002	-0.713	(INF)	----	
PFHxS-18O_IS	402.70>84.05	----	4.420	0.002	----	(INF)	----	
PFHpS_1	449.00>80.15	449.00>99.20	4.587	0.006	0.167	(INF)	2	IRr
PFOS_1	499.00>80.00	499.00>99.00	4.740	-0.012	-0.014	9	13	IRr, SN
PFOS-13C	502.80>80.05	----	4.754	0.002	-0.379	(INF)	----	
PFOS-13C_IS	502.80>80.05	----	4.754	0.002	----	(INF)	----	
PFNS	549.00>99.00	549.00>79.95	----	----	----	----	----	
PFDS_1	599.00>79.90	599.00>99.10	----	----	----	----	----	
PFBA	213.00>169.10	----	----	----	----	----	----	
PFBA-13C	216.90>172.15	----	3.422	-0.003	-1.711	3209	----	
PFBA-13C_IS	216.90>172.15	----	3.422	-0.003	----	3209	----	
PFPeA	263.05>219.10	----	3.870	-0.109	-0.110	527	----	RTi
PFPeA-13C	267.90>223.00	----	3.980	0.001	-1.153	8603	----	
PFPeA-13C_IS	267.90>223.00	----	3.980	0.001	----	8603	----	
PFHxA	313.00>269.00	313.00>119.10	----	----	----	----	----	
PFHxA-13C	314.90>270.10	----	4.237	0.000	-0.897	15353	----	
PFHxA-13C_IS	314.90>270.10	----	4.237	0.000	----	15353	----	
PFHpA	362.90>319.00	362.90>169.00	4.407	-0.010	-0.011	10	2	
PFHpA-13C	366.90>322.10	----	4.418	0.001	-0.715	16654	----	
PFHpA-13C_IS	366.90>322.10	----	4.418	0.001	----	16654	----	
PFOA	413.00>369.00	413.00>169.10	4.577	-0.011	-0.013	30	34	
PFOA-13C	416.80>372.05	----	4.590	0.002	-0.543	32896	----	
PFOA-13C_IS	416.80>372.05	----	4.590	0.002	----	32896	----	
PFNA	463.00>418.90	463.00>219.00	----	----	----	----	----	
PFNA-13C	467.80>423.00	----	4.766	0.001	-0.367	236749	----	
PFNA-13C_IS	467.80>423.00	----	4.766	0.001	----	236749	----	
PFDA	513.00>468.80	513.00>219.10	----	----	----	----	----	
PFDA-13C	514.80>469.95	----	4.950	0.001	-0.183	(INF)	----	
PFDA-13C_IS	514.80>469.95	----	4.950	0.001	----	(INF)	----	
PFUnA	563.00>518.90	563.00>219.00	----	----	----	----	----	
PFUnA-13C	564.80>519.95	----	5.133	0.001	0.000	104473	----	
PFUnA-13C_IS	564.80>519.95	----	5.133	0.001	----	104473	----	
PFDoA	613.05>569.00	613.05>169.00	5.302	-0.009	-0.010	(INF)	(INF)	
PFDoA-13C	614.80>569.95	----	5.312	0.001	0.179	(INF)	----	
PFDoA-13C_IS	614.80>569.95	----	5.312	0.001	----	(INF)	----	
PFTrDA	663.00>618.90	662.90>169.00	----	----	----	----	----	
PFTeDA	713.00>669.00	713.00>169.10	5.632	-0.002	-0.001	24	(INF)	
PFTeDA-13C	714.70>669.90	----	5.633	-0.001	0.500	26262	----	
PFTeDA-13C_IS	714.70>669.90	----	5.633	-0.001	----	24010	----	
FOSA	498.20>78.00	498.20>64.10	----	----	----	----	----	
FOSA-13C	506.00>78.05	----	5.235	0.004	0.102	2469	----	
FOSA-13C_IS	506.00>78.05	----	5.235	0.004	----	2469	----	
N-MeFOSA	512.00>169.10	512.00>219.00	5.628	0.003	0.004	4	14	IRr, SN
N-MeFOSA-d3	514.90>168.90	----	5.624	0.002	0.491	592	----	
N-MeFOSA-d3_IS	514.90>168.90	----	5.624	0.002	----	592	----	

J:\LCMS06\Data\210819_Curve\210819_Curve.DAMLP .

SN - Software-calculated S/N ratio outside criteria due to non-target peaks or drift in noise calculation window. Analyst review of noise levels (excluding non-target peaks) in chromatogram indicates S/N ratio meets criteria.

210819_019 (continued)

(Table continued from previous page)

Name	m/z	Ref 1 m/z	Found RT	RT Diff	ISTD RT Diff	S/N	Ref 1 S/N	Flag ID
N-EtFOSA	526.90>169.10	526.90>219.00	----	----	----	----	----	
N-EtFOSA-d9	530.90>169.15	----	5.759	0.003	0.626	(INF)	----	
N-EtFOSA-d9_IS	530.90>169.15	----	5.759	0.003	----	(INF)	----	
N-MeFOSE	616.00>59.00	----	5.532	-0.073	-0.066	3	----	SN
N-MeFOSE-d7	622.70>59.10	----	5.598	0.001	0.465	637	----	
N-MeFOSE-d7_IS	622.70>59.10	----	5.598	0.001	----	637	----	
N-EtFOSE	630.00>58.90	----	----	----	----	----	----	
N-EtFOSE-d9	638.70>59.10	----	5.729	0.003	0.596	3575	----	
N-EtFOSE-d9_IS	638.70>59.10	----	5.729	0.003	----	3575	----	
N-MeFOSAA	570.20>419.00	570.20>512.00	----	----	----	----	----	
N-MeFOSAA-d3	572.80>419.05	----	5.047	0.002	-0.086	120282	----	
N-MeFOSAA-d3_IS	572.80>419.05	----	5.047	0.002	----	120282	----	
N-EtFOSAA	584.20>418.95	584.20>526.10	----	----	----	----	----	
N-EtFOSAA-d5	588.80>419.00	----	5.145	0.001	0.012	(INF)	----	
N-EtFOSAA-d5_IS	588.80>419.00	----	5.145	0.001	----	(INF)	----	
4_2-FTS_1	327.00>307.05	327.00>81.10	4.196	-0.014	-0.015	30	(INF)	IRr
4_2-FTS-13C	328.80>309.05	----	4.211	0.001	-0.922	(INF)	----	
4_2-FTS-13C_IS	328.80>309.05	----	4.211	0.001	----	(INF)	----	
6_2-FTS_1	427.00>407.00	427.00>80.90	4.580	0.004	0.000	(INF)	2	IRr
6_2-FTS-13C	428.90>409.00	----	4.580	0.002	-0.553	(INF)	----	
6_2-FTS-13C_IS	428.90>409.00	----	4.580	0.002	----	(INF)	----	
8_2-FTS_1	527.10>506.90	527.20>487.00	----	----	----	----	----	
8_2-FTS-13C	528.80>509.00	----	4.949	0.002	-0.184	85229	----	
8_2-FTS-13C_IS	528.80>509.00	----	4.949	0.002	----	85229	----	
10_2-FtS_1	627.00>606.95	627.00>81.25	----	----	----	----	----	
HPFO_DA	329.00>169.00	329.00>285.10	----	----	----	----	----	
HFPO_DA-13C	332.00>286.80	----	4.305	0.001	-0.828	25829	----	
HFPO_DA-13C_IS	332.00>286.80	----	4.305	0.001	----	25829	----	

Flag ID key: IRr: Ion Ratio (Relative), RTi: RT Diff (Absolute ISTD), SN: S/N

SN - Software-calculated S/N ratio outside criteria due to non-target peaks or drift in noise calculation window. Analyst review of noise levels (excluding non-target peaks) in chromatogram indicates S/N ratio meets criteria.

Insight Report
Ion Ratio Confirmation
Printed 8/20/2021 11:19:20

210819_019

Sample ID: CCB
Date Acquired: 8/19/2021 6:28:59 PM
Acquired by: System Administrator
Data File: 210819_019
Vial: 9 | Inj. Volume: 15.0000uL | Tray: 1

Name	m/z	Ref 1 m/z	Area	Ref 1 Measured	Ref 1 Actual Ratio	Ref 1 Set Ratio	Comment 1	Flag ID
13C7-PFUnDA_IS	570.00>525.00	----	4285767	----	----	----		
PFBS_1	299.00>80.00	298.80>99.00	342	315	92.11	47.76	23.88-71.64	IRr
PFBS-13C	301.80>80.00	----	477535	----	----	----	0-0	
PFBS-13C_IS	301.80>80.00	----	477535	----	----	----	0-0	
PFPeS	349.00>99.00	349.00>79.95	435	100	22.99	136.08	68.04 -204.13	IRr, SN
PFHxS_1	399.00>80.00	399.00>99.00	1928	1762	91.42	71.26	35.63 -106.89	
PFHxS-18O	402.70>84.05	----	313744	----	----	----	0-0	
PFHxS-18O_IS	402.70>84.05	----	313744	----	----	----	0-0	
PFHpS_1	449.00>80.15	449.00>99.20	1683	202	12.00	53.84	26.92-80.76	IRr
PFOS_1	499.00>80.00	499.00>99.00	290	627	216.21	86.72	43.36 -130.08	IRr, SN
PFOS-13C	502.80>80.05	----	403414	----	----	----	0-0	
PFOS-13C_IS	502.80>80.05	----	403414	----	----	----	0-0	
PFNS	549.00>99.00	549.00>79.95	----	0	0.00	129.18	64.59 -193.78	
PFDS_1	599.00>79.90	599.00>99.10	----	0	0.00	90.77	45.38 -136.15	
PFBA	213.00>169.10	----	----	----	----	----		
PFBA-13C	216.90>172.15	----	1834626	----	----	----		
PFBA-13C_IS	216.90>172.15	----	1834626	----	----	----		
PFPeA	263.05>219.10	----	26777	----	----	----		RTi
PFPeA-13C	267.90>223.00	----	1226776	----	----	----	0-0	
PFPeA-13C_IS	267.90>223.00	----	1226776	----	----	----	0-0	
PFHxA	313.00>269.00	313.00>119.10	----	0	0.00	4.17	2.08-6.25	
PFHxA-13C	314.90>270.10	----	3350053	----	----	----	0-0	
PFHxA-13C_IS	314.90>270.10	----	3350053	----	----	----	0-0	
PFHpA	362.90>319.00	362.90>169.00	6404	1404	21.92	26.04	13.02-39.07	
PFHpA-13C	366.90>322.10	----	3386538	----	----	----	0-0	
PFHpA-13C_IS	366.90>322.10	----	3386538	----	----	----	0-0	
PFOA	413.00>369.00	413.00>169.10	25313	8488	33.53	30.35	15.18-45.53	
PFOA-13C	416.80>372.05	----	3929038	----	----	----	0-0	
PFOA-13C_IS	416.80>372.05	----	3929038	----	----	----	0-0	
PFNA	463.00>418.90	463.00>219.00	----	0	0.00	22.35	11.18-33.53	
PFNA-13C	467.80>423.00	----	3007460	----	----	----	0-0	
PFNA-13C_IS	467.80>423.00	----	3007460	----	----	----	0-0	
PFDA	513.00>468.80	513.00>219.10	----	0	0.00	18.73	9.36-28.09	
PFDA-13C	514.80>469.95	----	2160338	----	----	----	0-0	
PFDA-13C_IS	514.80>469.95	----	2160338	----	----	----	0-0	
PFUnA	563.00>518.90	563.00>219.00	----	0	0.00	11.60	5.8-17.4	
PFUnA-13C	564.80>519.95	----	2773304	----	----	----	0-0	
PFUnA-13C_IS	564.80>519.95	----	2773304	----	----	----	0-0	
PFDoA	613.05>569.00	613.05>169.00	2881	597	20.74	15.11	7.55-22.66	
PFDoA-13C	614.80>569.95	----	3020056	----	----	----	0-0	
PFDoA-13C_IS	614.80>569.95	----	3020056	----	----	----	0-0	
PFTrDA	663.00>618.90	662.90>169.00	----	0	0.00	14.19	7.09-21.28	
PFTeDA	713.00>669.00	713.00>169.10	3325	260	7.82	14.98	7.49-22.46	
PFTeDA-13C	714.70>669.90	----	1975089	----	----	----	0-0	
PFTeDA-13C_IS	714.70>669.90	----	1975089	----	----	----	0-0	
FOSA	498.20>78.00	498.20>64.10	----	0	0.00	4.89	2.44-7.33	

J:\LCMS06\Data\210819_Curve\210819_Curve.DAMLP .

Comment 1 field specifies acceptance range for Ref 1 ratio.
IRr - Ion ratio outside criteria. Exceedances for results above the MDL to be "K" flagged in the analytical report.

210819_019 (continued)

(Table continued from previous page)

Name	m/z	Ref 1 m/z	Area	Ref 1 Measured	Ref 1 Actual Ratio	Ref 1 Set Ratio	Comment 1	Flag ID
FOSA-13C	506.00>78.05	----	1239874	----	----	----	0-0	
FOSA-13C_IS	506.00>78.05	----	1239874	----	----	----	0-0	
N-MeFOSA	512.00>169.10	512.00>219.00	1017	147	14.45	62.72	31.36-94.08	IRr, SN
N-MeFOSA-d3	514.90>168.90	----	310616	----	----	----	0-0	
N-MeFOSA-d3_IS	514.90>168.90	----	310616	----	----	----	0-0	
N-EtFOSA	526.90>169.10	526.90>219.00	----	0	0.00	63.35	31.68-95.03	
N-EtFOSA-d9	530.90>169.15	----	345333	----	----	----	0-0	
N-EtFOSA-d9_IS	530.90>169.15	----	345333	----	----	----	0-0	
N-MeFOSE	616.00>59.00	----	218	----	----	----		SN
N-MeFOSE-d7	622.70>59.10	----	301537	----	----	----		
N-MeFOSE-d7_IS	622.70>59.10	----	301537	----	----	----		
N-EtFOSE	630.00>58.90	----	----	----	----	----		
N-EtFOSE-d9	638.70>59.10	----	317018	----	----	----	0-0	
N-EtFOSE-d9_IS	638.70>59.10	----	317018	----	----	----	0-0	
N-MeFOSAA	570.20>419.00	570.20>512.00	----	0	0.00	35.26	17.63-52.88	
N-MeFOSAA-d3	572.80>419.05	----	233026	----	----	----	0-0	
N-MeFOSAA-d3_IS	572.80>419.05	----	233026	----	----	----	0-0	
N-EtFOSAA	584.20>418.95	584.20>526.10	----	0	0.00	77.25	38.62 -115.87	
N-EtFOSAA-d5	588.80>419.00	----	217220	----	----	----	0-0	
N-EtFOSAA-d5_IS	588.80>419.00	----	217220	----	----	----	0-0	
4_2-FTS_1	327.00>307.05	327.00>81.10	178	3658	2057.17	39.85	19.92-59.77	IRr
4_2-FTS-13C	328.80>309.05	----	496601	----	----	----	0-0	
4_2-FTS-13C_IS	328.80>309.05	----	496601	----	----	----	0-0	
6_2-FTS_1	427.00>407.00	427.00>80.90	126	395	313.49	29.95	14.97-44.92	IRr
6_2-FTS-13C	428.90>409.00	----	499012	----	----	----	0-0	
6_2-FTS-13C_IS	428.90>409.00	----	499012	----	----	----	0-0	
8_2-FTS_1	527.10>506.90	527.20>487.00	----	0	0.00	9.42	4.71-14.13	
8_2-FTS-13C	528.80>509.00	----	259571	----	----	----	0-0	
8_2-FTS-13C_IS	528.80>509.00	----	259571	----	----	----	0-0	
10_2-FtS_1	627.00>606.95	627.00>81.25	----	0	0.00	49.86	24.93-74.78	
HPFO_DA	329.00>169.00	329.00>285.10	----	0	0.00	101.52	50.76 -152.28	
HFPO_DA-13C	332.00>286.80	----	612094	----	----	----		
HFPO_DA-13C_IS	332.00>286.80	----	612094	----	----	----		

Flag ID key: IRr: Ion Ratio (Relative), RTi: RT Diff (Absolute ISTD), SN: S/N

Comment 1 field specifies acceptance range for Ref 1 ratio.
IRr - Ion ratio outside criteria. Exceedances for results above the MDL to be "K" flagged in the analytical report.

Insight Report
Quantitation/Integration
Printed 8/20/2021 11:13:44

210819_019

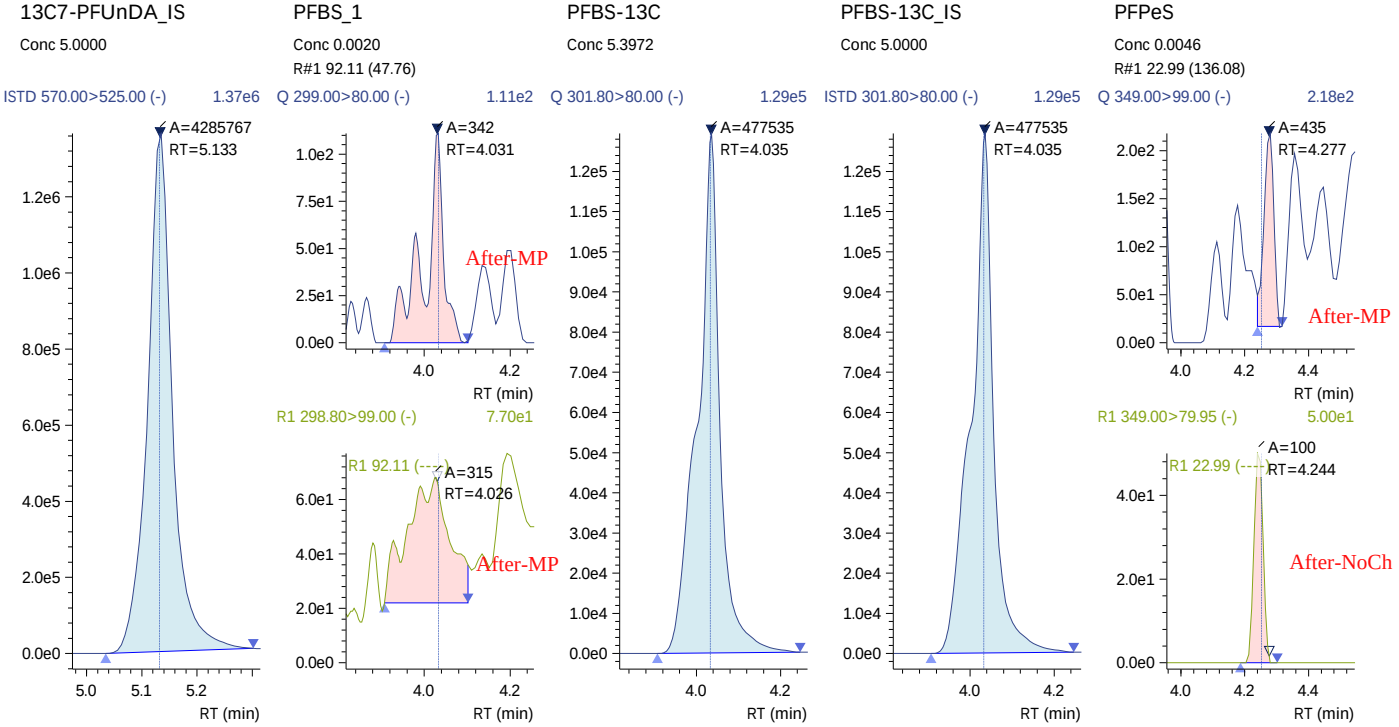
Sample ID: CCB
Date Acquired: 8/19/2021 6:28:59 PM
Acquired by: System Administrator
Data File: 210819_019
Vial: 9 | Inj. Volume: 15.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	ISTD Name	Std. Conc.	Conc.	Unit
13C7-PFUnDA_IS	Auto	5.133	4285767	4285767	----	----	5.0000	ng/mL
PFBS_1	M	4.031	342	477535	PFBS-13C_IS	----	0.0020	ng/mL
PFBS-13C	Auto	4.035	477535	4285767	13C7-PFUnDA_IS	----	5.3972	ng/mL
PFBS-13C_IS	Auto	4.035	477535	477535	----	----	5.0000	ng/mL
PFPeS	M	4.277	435	477535	PFBS-13C_IS	----	0.0046	ng/mL
PFHxS_1	Auto	4.422	1928	313744	PFHxS-18O_IS	----	-0.0030	ng/mL
PFHxS-18O	Auto	4.420	313744	4285767	13C7-PFUnDA_IS	----	5.2006	ng/mL
PFHxS-18O_IS	Auto	4.420	313744	313744	----	----	5.0000	ng/mL
PFHpS_1	MI R1	4.587	1683	313744	PFHxS-18O_IS	----	0.0128	ng/mL
PFOS_1	M	4.740	290	403414	PFOS-13C_IS	----	0.0038	ng/mL
PFOS-13C	Auto	4.754	403414	4285767	13C7-PFUnDA_IS	----	5.3804	ng/mL
PFOS-13C_IS	Auto	4.754	403414	403414	----	----	5.0000	ng/mL
PFNS	ND(W/B)	----	----	403414	PFOS-13C_IS	----	----	ng/mL
PFDS_1	ND(W/B)	----	----	403414	PFOS-13C_IS	----	----	ng/mL
PFBA	ND(W/B)	----	----	1834626	PFBA-13C_IS	----	----	ng/mL
PFBA-13C	Auto	3.422	1834626	4285767	13C7-PFUnDA_IS	----	5.2412	ng/mL
PFBA-13C_IS	Auto	3.422	1834626	1834626	----	----	5.0000	ng/mL
PFPeA	M	3.870	26777	1226776	PFPeA-13C_IS	----	0.0343	ng/mL
PFPeA-13C	Auto	3.980	1226776	4285767	13C7-PFUnDA_IS	----	5.3181	ng/mL
PFPeA-13C_IS	Auto	3.980	1226776	1226776	----	----	5.0000	ng/mL
PFHxA	ND(W/B)	----	----	3350053	PFHxA-13C_IS	----	----	ng/mL
PFHxA-13C	Auto	4.237	3350053	4285767	13C7-PFUnDA_IS	----	5.2744	ng/mL
PFHxA-13C_IS	Auto	4.237	3350053	3350053	----	----	5.0000	ng/mL
PFHpA	MI R1	4.407	6404	3386538	PFHpA-13C_IS	----	0.0087	ng/mL
PFHpA-13C	Auto	4.418	3386538	4285767	13C7-PFUnDA_IS	----	5.2516	ng/mL
PFHpA-13C_IS	Auto	4.418	3386538	3386538	----	----	5.0000	ng/mL
PFOA	M	4.577	25313	3929038	PFOA-13C_IS	----	0.0210	ng/mL
PFOA-13C	Auto	4.590	3929038	4285767	13C7-PFUnDA_IS	----	5.4730	ng/mL
PFOA-13C_IS	Auto	4.590	3929038	3929038	----	----	5.0000	ng/mL
PFNA	ND(W/B)	----	----	3007460	PFNA-13C_IS	----	----	ng/mL
PFNA-13C	Auto	4.766	3007460	4285767	13C7-PFUnDA_IS	----	5.4919	ng/mL
PFNA-13C_IS	Auto	4.766	3007460	3007460	----	----	5.0000	ng/mL
PFDA	ND(W/B)	----	----	2160338	PFDA-13C_IS	----	----	ng/mL
PFDA-13C	Auto	4.950	2160338	4285767	13C7-PFUnDA_IS	----	5.3374	ng/mL
PFDA-13C_IS	Auto	4.950	2160338	2160338	----	----	5.0000	ng/mL
PFUnA	ND(W/B)	----	----	2773304	PFUnA-13C_IS	----	----	ng/mL
PFUnA-13C	Auto	5.133	2773304	4285767	13C7-PFUnDA_IS	----	5.1426	ng/mL
PFUnA-13C_IS	Auto	5.133	2773304	2773304	----	----	5.0000	ng/mL
PFDoA	M	5.302	2881	3020056	PFDoA-13C_IS	----	0.0049	ng/mL
PFDoA-13C	Auto	5.312	3020056	4285767	13C7-PFUnDA_IS	----	5.1124	ng/mL
PFDoA-13C_IS	Auto	5.312	3020056	3020056	----	----	5.0000	ng/mL
PFTrDA	ND(W/B)	----	----	1975089	PFTeDA-13C_IS	----	----	ng/mL
PFTeDA	M	5.632	3325	1975089	PFTeDA-13C_IS	----	0.0075	ng/mL
PFTeDA-13C	Auto	5.633	1975089	4285767	13C7-PFUnDA_IS	----	4.9406	ng/mL
PFTeDA-13C_IS	Auto	5.633	1975089	1975089	----	----	5.0000	ng/mL
FOSA	ND(W/B)	----	----	1239874	FOSA-13C_IS	----	----	ng/mL
FOSA-13C	Auto	5.235	1239874	4285767	13C7-PFUnDA_IS	----	4.8702	ng/mL
FOSA-13C_IS	Auto	5.235	1239874	1239874	----	----	5.0000	ng/mL
N-MeFOSA	M	5.628	1017	310616	N-MeFOSA-d3_IS	----	0.0087	ng/mL
N-MeFOSA-d3	Auto	5.624	310616	4285767	13C7-PFUnDA_IS	----	5.2473	ng/mL
N-MeFOSA-d3_IS	Auto	5.624	310616	310616	----	----	5.0000	ng/mL
N-EtFOSA	ND(W/B)	----	----	345333	N-EtFOSA-d9_IS	----	----	ng/mL
N-EtFOSA-d9	Auto	5.759	345333	4285767	13C7-PFUnDA_IS	----	5.1344	ng/mL
N-EtFOSA-d9_IS	Auto	5.759	345333	345333	----	----	5.0000	ng/mL

210819_019 (continued)

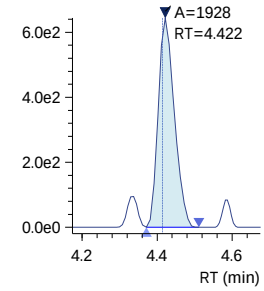
(Table continued from previous page)

Name	Mode ID	Found RT	Area	ISTD Area	ISTD Name	Std. Conc.	Conc.	Unit
N-MeFOSE	M	5.532	218	301537	N-MeFOSE-d7_IS	----	0.0017	ng/mL
N-MeFOSE-d7	Auto	5.598	301537	4285767	13C7-PFUnDA_IS	----	5.0939	ng/mL
N-MeFOSE-d7_IS	Auto	5.598	301537	301537	----	----	5.0000	ng/mL
N-EtFOSE	ND(W/B)	----	----	317018	N-EtFOSE-d9_IS	----	----	ng/mL
N-EtFOSE-d9	Auto	5.729	317018	4285767	13C7-PFUnDA_IS	----	5.1727	ng/mL
N-EtFOSE-d9_IS	Auto	5.729	317018	317018	----	----	5.0000	ng/mL
N-MeFOSAA	ND(W/B)	----	----	233026	N-MeFOSAA-d3_IS	----	----	ng/mL
N-MeFOSAA-d3	Auto	5.047	233026	4285767	13C7-PFUnDA_IS	----	4.8266	ng/mL
N-MeFOSAA-d3_IS	Auto	5.047	233026	233026	----	----	5.0000	ng/mL
N-EtFOSAA	ND(W/B)	----	----	217220	N-EtFOSAA-d5_IS	----	----	ng/mL
N-EtFOSAA-d5	Auto	5.145	217220	4285767	13C7-PFUnDA_IS	----	4.8329	ng/mL
N-EtFOSAA-d5_IS	Auto	5.145	217220	217220	----	----	5.0000	ng/mL
4_2-FTS_1	M	4.196	178	496601	4_2-FTS-13C_IS	----	0.0018	ng/mL
4_2-FTS-13C	Auto	4.211	496601	4285767	13C7-PFUnDA_IS	----	5.0422	ng/mL
4_2-FTS-13C_IS	Auto	4.211	496601	496601	----	----	5.0000	ng/mL
6_2-FTS_1	M	4.580	126	499012	6_2-FTS-13C_IS	----	0.0009	ng/mL
6_2-FTS-13C	Auto	4.580	499012	4285767	13C7-PFUnDA_IS	----	5.3633	ng/mL
6_2-FTS-13C_IS	Auto	4.580	499012	499012	----	----	5.0000	ng/mL
8_2-FTS_1	ND(W/B)	----	----	259571	8_2-FTS-13C_IS	----	----	ng/mL
8_2-FTS-13C	Auto	4.949	259571	4285767	13C7-PFUnDA_IS	----	5.2415	ng/mL
8_2-FTS-13C_IS	Auto	4.949	259571	259571	----	----	5.0000	ng/mL
10_2-FtS_1	ND(W/B)	----	----	259571	8_2-FTS-13C_IS	----	----	ng/mL
HPFO_DA	ND(W/B)	----	----	612094	HFPO_DA-13C_IS	----	----	ng/mL
HFPO_DA-13C	Auto	4.305	612094	4285767	13C7-PFUnDA_IS	----	5.5275	ng/mL
HFPO_DA-13C_IS	Auto	4.305	612094	612094	----	----	5.0000	ng/mL

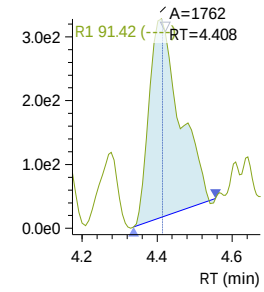


210819_019 (continued)

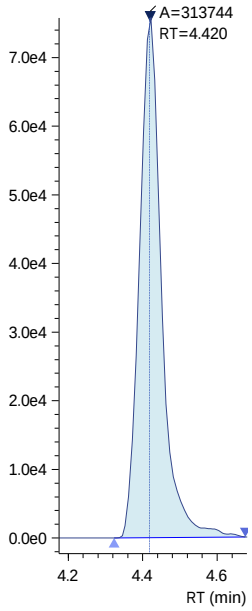
PFHxS_1
Conc -0.0030
R#1 91.42 (71.26)
Q 399.00>80.00 (-) 6.44e2



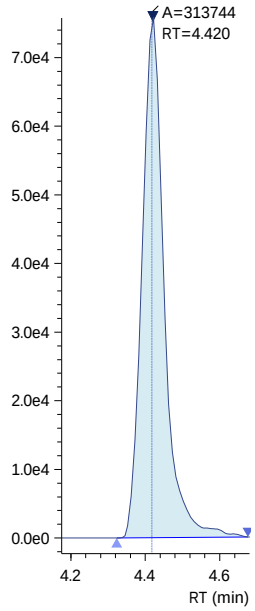
R1 399.00>99.00 (-) 3.28e2



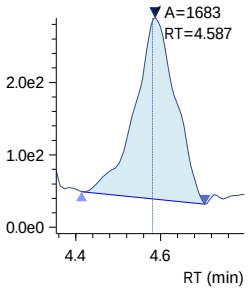
PFHxS-18O
Conc 5.2006
Q 402.70>84.05 (-) 7.58e4



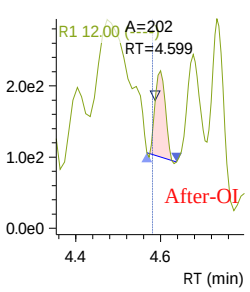
PFHxS-18O_IS
Conc 5.0000
ISTD 402.70>84.05 (-) 7.58e4



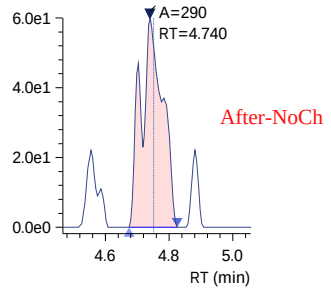
PFHpS_1
Conc 0.0128
R#1 12.00 (53.84)
Q 449.00>80.15 (-) 2.89e2



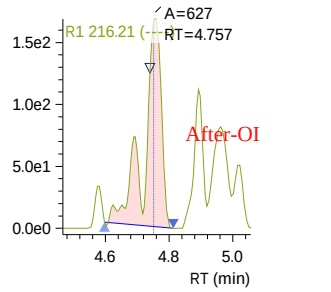
R1 449.00>99.20 (-) 2.94e2



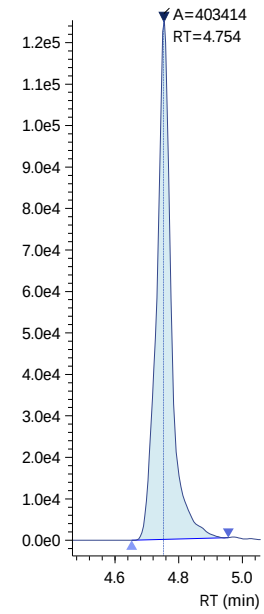
PFOS_1
Conc 0.0038
R#1 216.21 (86.72)
Q 499.00>80.00 (-) 6.00e1



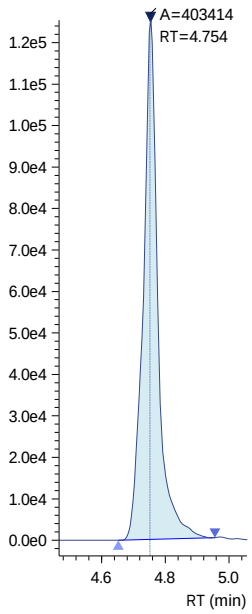
R1 499.00>99.00 (-) 1.69e2



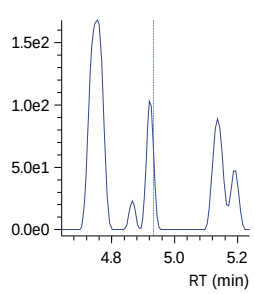
PFOS-13C
Conc 5.3804
Q 502.80>80.05 (-) 1.25e5



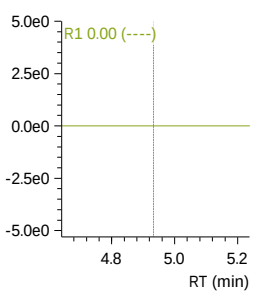
PFOS-13C_IS
Conc 5.0000
ISTD 502.80>80.05 (-) 1.25e5



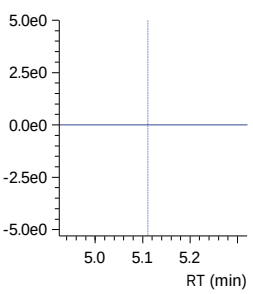
PFNS
Conc ----
R#1 0.00 (129.18)
Q 549.00>99.00 (-) 1.68e2



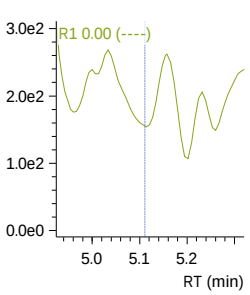
R1 549.00>79.95 (-) 0.00e0



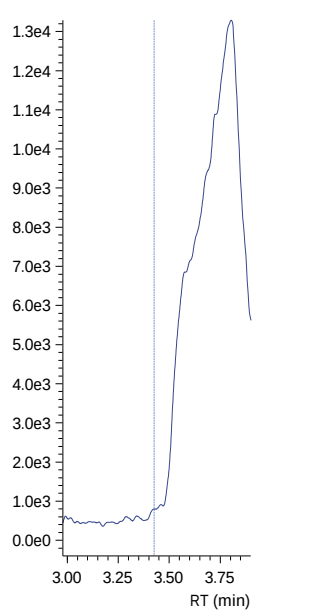
PFDS_1
Conc ----
R#1 0.00 (90.77)
Q 599.00>79.90 (-) 0.00e0



R1 599.00>99.10 (-) 3.11e2

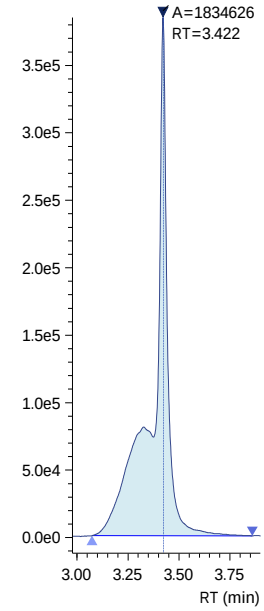


PFBA
Conc ----
Q 213.00>169.10 (-) 1.33e4

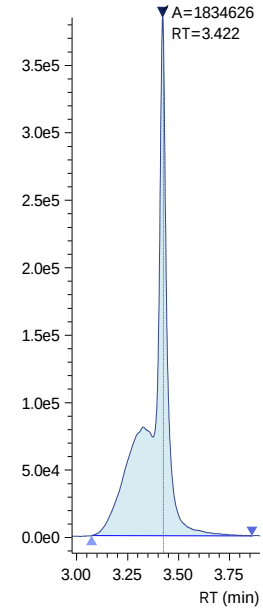


210819_019 (continued)

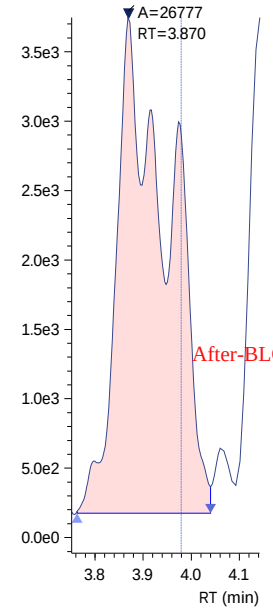
PFBA-13C
Conc 5.2412
Q 216.90>172.15 (-) 3.86e5



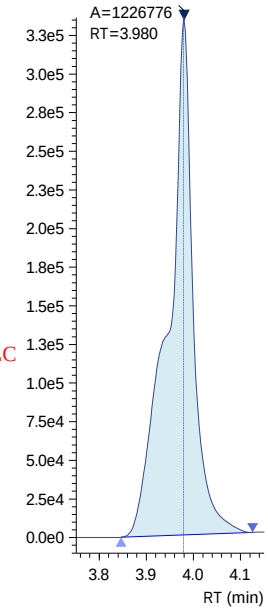
PFBA-13C_IS
Conc 5.0000
ISTD 216.90>172.15 (-) 3.86e5



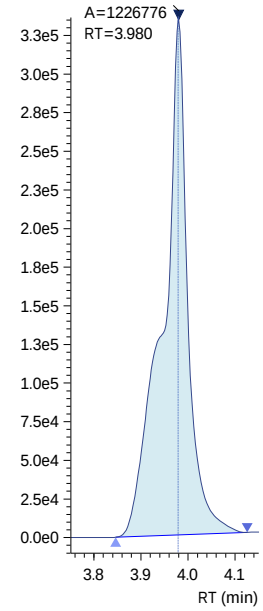
PFPeA
Conc 0.0343
Q 263.05>219.10 (-) 3.75e3



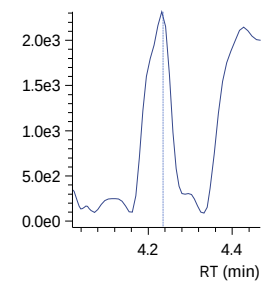
PFPeA-13C
Conc 5.3181
Q 267.90>223.00 (-) 3.37e5



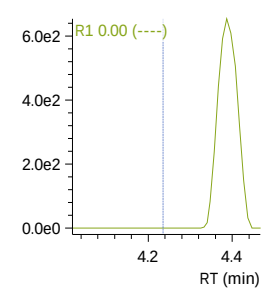
PFPeA-13C_IS
Conc 5.0000
ISTD 267.90>223.00 (-) 3.37e5



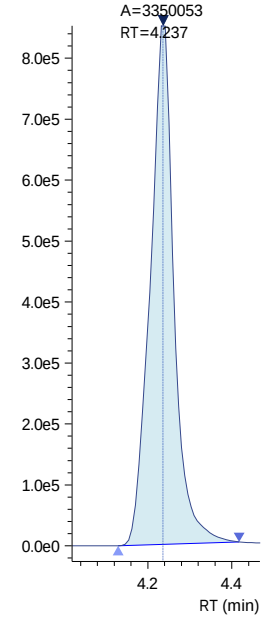
PFHxA
Conc ----
R#1 0.00 (4.17)
Q 313.00>269.00 (-) 2.32e3



R1 313.00>119.10 (-) 6.54e2



PFHxA-13C
Conc 5.2744
Q 314.90>270.10 (-) 8.53e5



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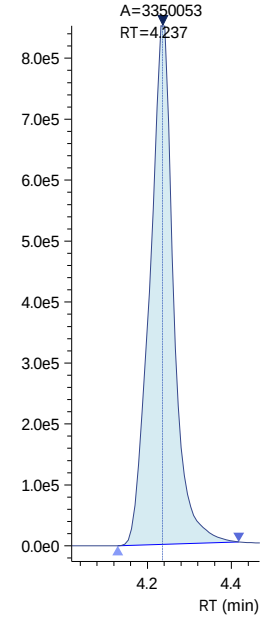
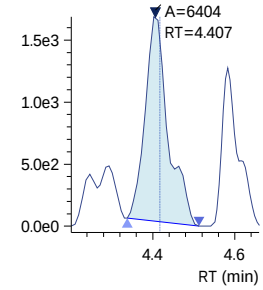
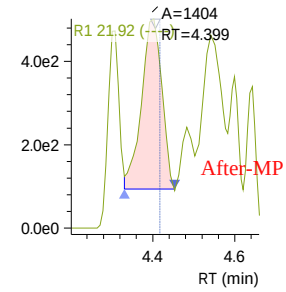
Conc 5.0000
ISTD 314.90>270.10 (-) 8.53e5



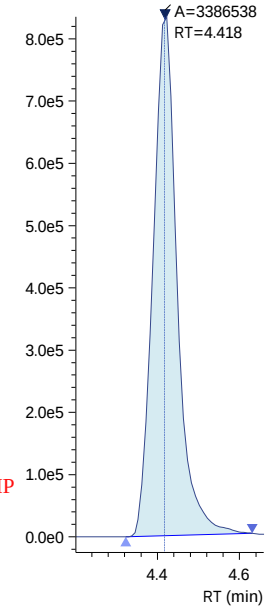
PFHpA
Conc 0.0087
R#1 21.92 (26.04)
Q 362.90>319.00 (-) 1.69e3



R1 362.90>169.00 (-) 5.02e2

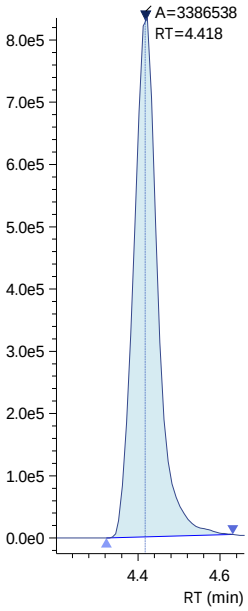


PFHpA-13C
Conc 5.2516
Q 366.90>322.10 (-) 8.35e5

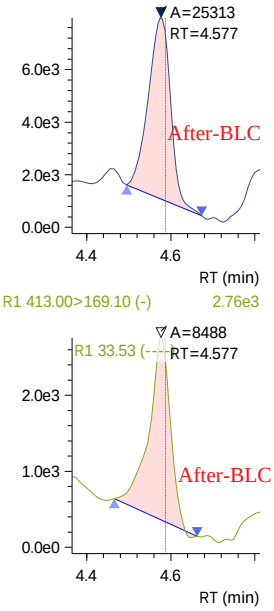


210819_019 (continued)

PFHpA-13C_IS
Conc 5.0000
ISTD 366.90>322.10 (-) 8.35e5

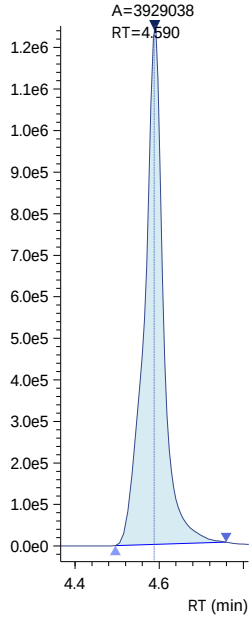


PFOA
Conc 0.0210
R#1 33.53 (30.35)
Q 413.00>369.00 (-) 7.97e3

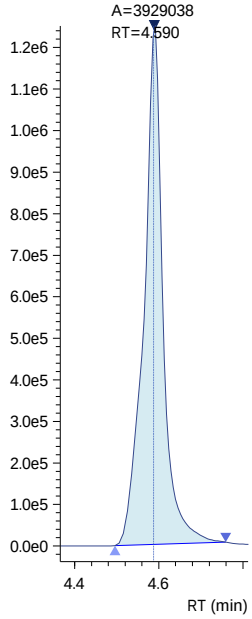


R1 413.00>169.10 (-) 2.76e3

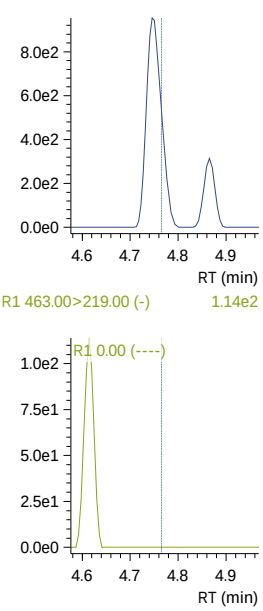
PFOA-13C
Conc 5.4730
Q 416.80>372.05 (-) 1.25e6



PFOA-13C_IS
Conc 5.0000
ISTD 416.80>372.05 (-) 1.25e6

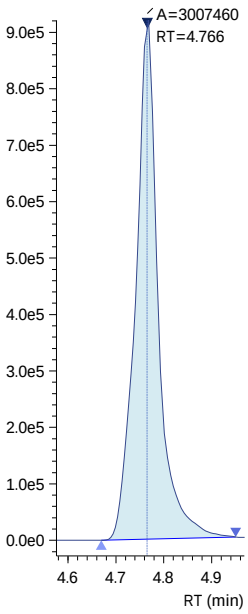


PFNA
Conc ----
R#1 0.00 (22.35)
Q 463.00>418.90 (-) 9.54e2

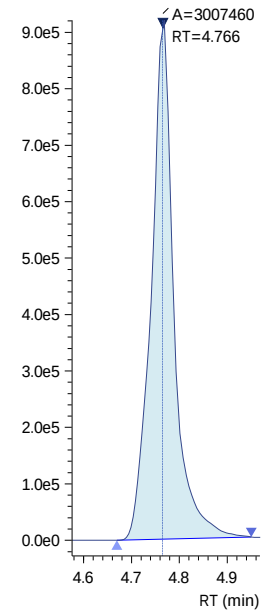


R1 463.00>219.00 (-) 1.14e2

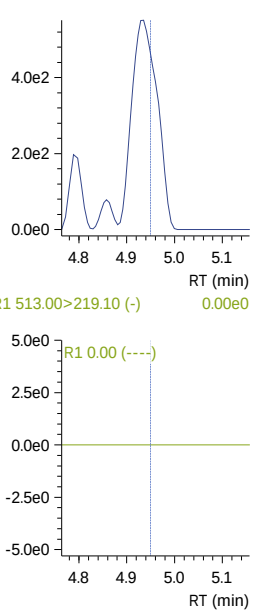
PFNA-13C
Conc 5.4919
Q 467.80>423.00 (-) 9.21e5



PFNA-13C_IS
Conc 5.0000
ISTD 467.80>423.00 (-) 9.21e5

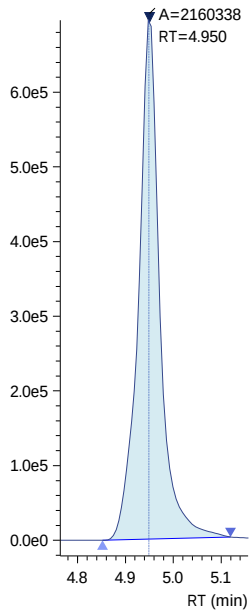


PFDA
Conc ----
R#1 0.00 (18.73)
Q 513.00>468.80 (-) 5.51e2

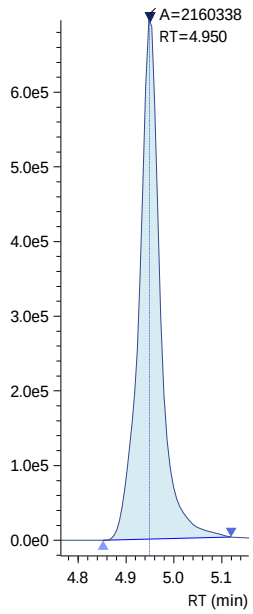


R1 513.00>219.10 (-) 0.00e0

PFDA-13C
Conc 5.3374
Q 514.80>469.95 (-) 6.96e5

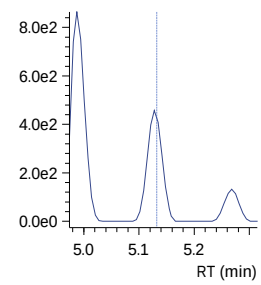


PFDA-13C_IS
Conc 5.0000
ISTD 514.80>469.95 (-) 6.96e5

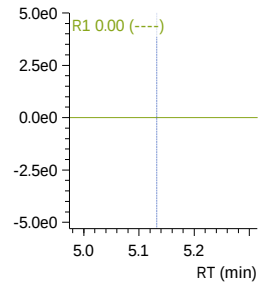


210819_019 (continued)

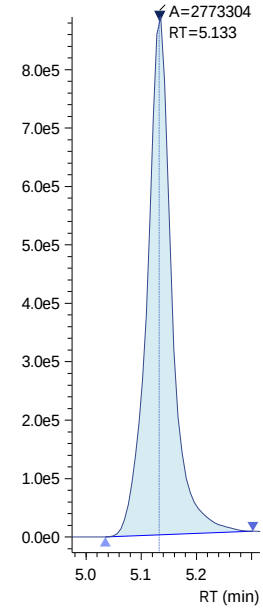
PFUnA
Conc ----
R#1 0.00 (11.60)
Q 563.00>518.90 (-) 8.64e2



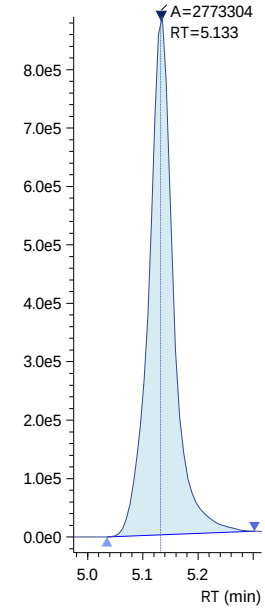
R1 563.00>219.00 (-) 0.00e0



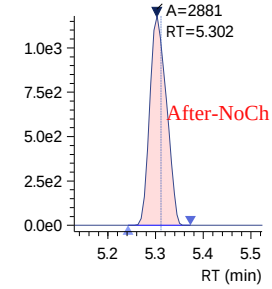
PFUnA-13C
Conc 5.1426
Q 564.80>519.95 (-) 8.90e5



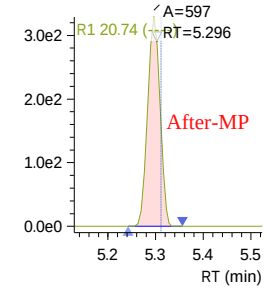
PFUnA-13C_IS
Conc 5.0000
ISTD 564.80>519.95 (-) 8.90e5



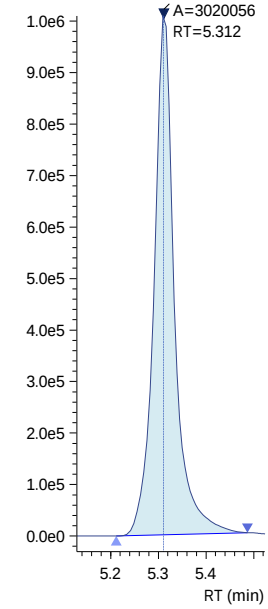
PFDoA
Conc 0.0049
R#1 20.74 (15.11)
Q 613.05>569.00 (-) 1.18e3



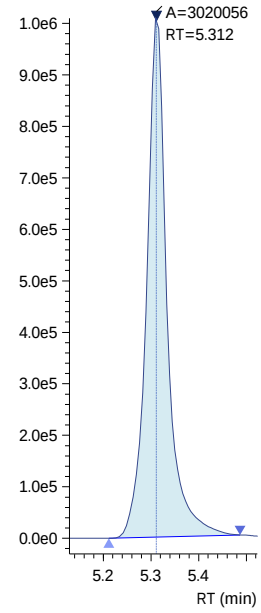
R1 613.05>169.00 (-) 3.29e2



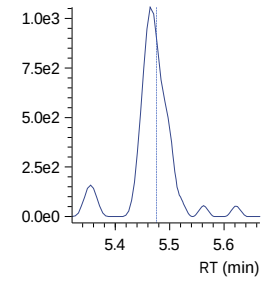
PFDoA-13C
Conc 5.1124
Q 614.80>569.95 (-) 1.01e6



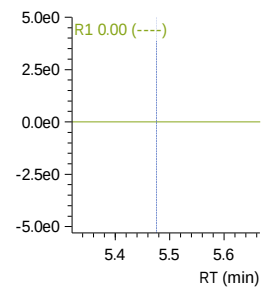
PFDoA-13C_IS
Conc 5.0000
ISTD 614.80>569.95 (-) 1.01e6



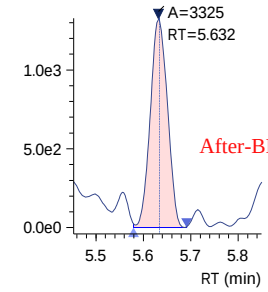
PFTrDA
Conc ----
R#1 0.00 (14.19)
Q 663.00>618.90 (-) 1.06e3



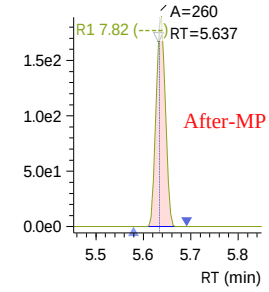
R1 662.90>169.00 (-) 0.00e0



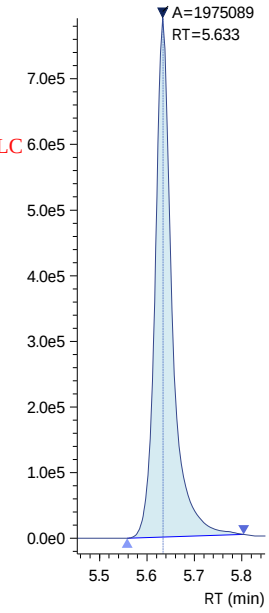
PFTeDA
Conc 0.0075
R#1 7.82 (14.98)
Q 713.00>669.00 (-) 1.33e3



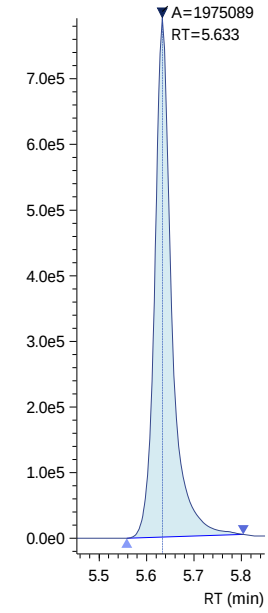
R1 713.00>169.10 (-) 1.89e2



PFTeDA-13C
Conc 4.9406
Q 714.70>669.90 (-) 7.92e5

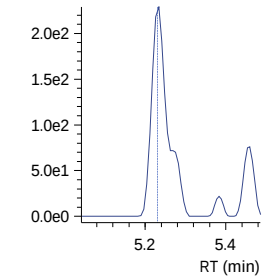


PFTeDA-13C_IS
Conc 5.0000
ISTD 714.70>669.90 (-) 7.92e5

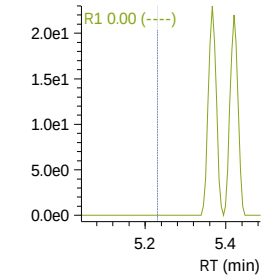


210819_019 (continued)

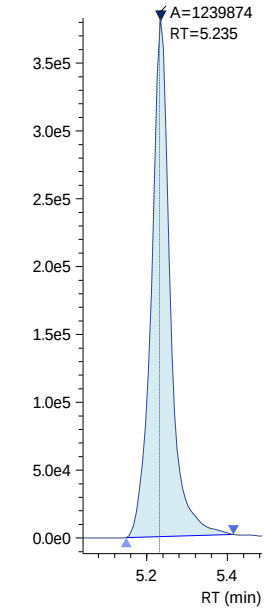
FOSA
Conc ----
R#1 0.00 (4.89)
Q 498.20>78.00 (-) 2.29e2



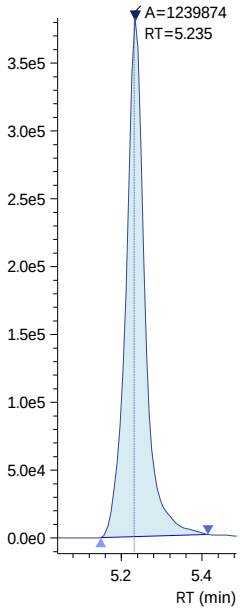
R1 498.20>64.10 (-) 2.30e1



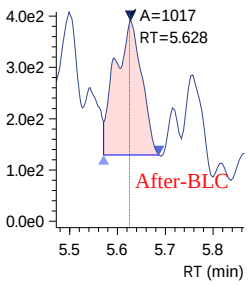
FOSA-13C
Conc 4.8702
Q 506.00>78.05 (-) 3.83e5



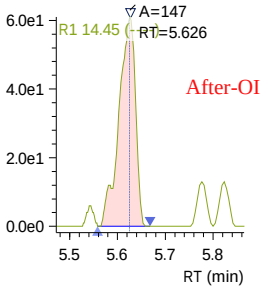
FOSA-13C_IS
Conc 5.0000
ISTD 506.00>78.05 (-) 3.83e5



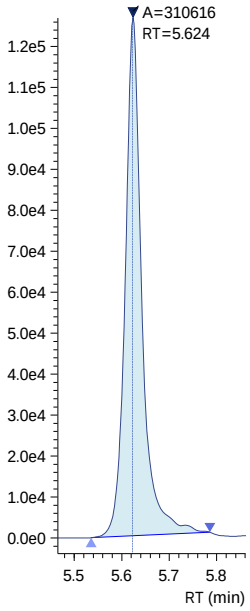
N-MeFOSA
Conc 0.0087
R#1 14.45 (62.72)
Q 512.00>169.10 (-) 4.08e2



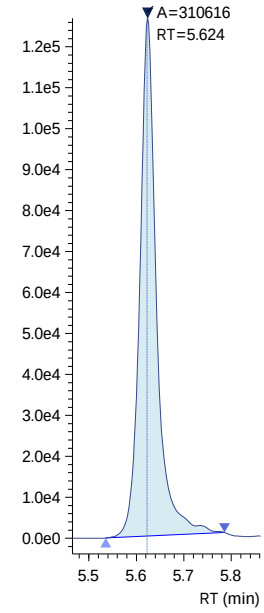
R1 512.00>219.00 (-) 6.10e1



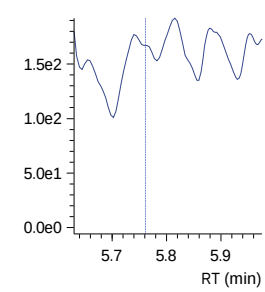
N-MeFOSA-d3
Conc 5.2473
Q 514.90>168.90 (-) 1.27e5



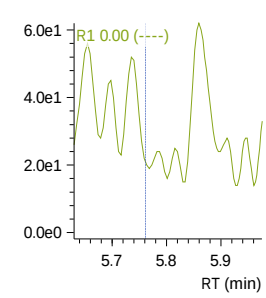
N-MeFOSA-d3_IS
Conc 5.0000
ISTD 514.90>168.90 (-) 1.27e5



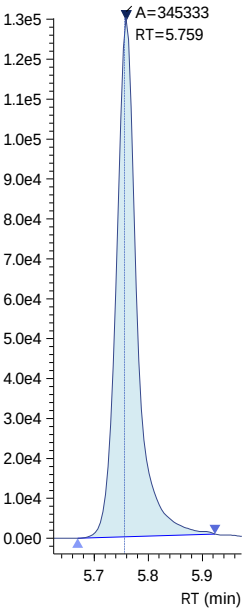
N-EtFOSA
Conc ----
R#1 0.00 (63.35)
Q 526.90>169.10 (-) 1.92e2



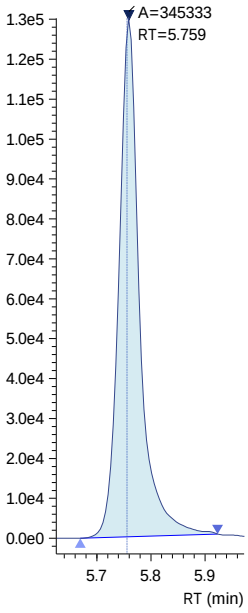
R1 526.90>219.00 (-) 6.20e1



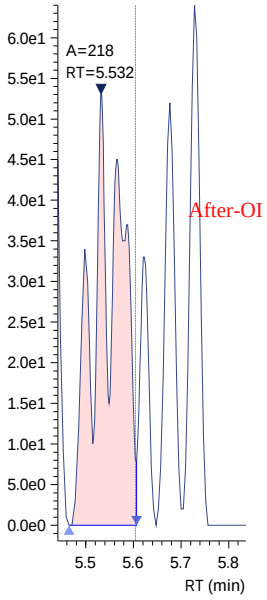
N-EtFOSA-d9
Conc 5.1344
Q 530.90>169.15 (-) 1.30e5



N-EtFOSA-d9_IS
Conc 5.0000
ISTD 530.90>169.15 (-) 1.30e5

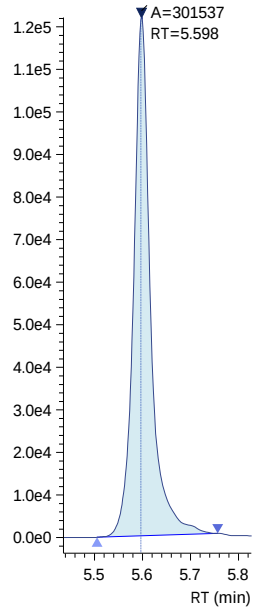


N-MeFOSE
Conc 0.0017
Q 616.00>59.00 (-) 6.40e1

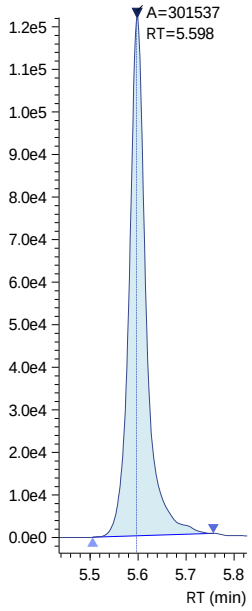


210819_019 (continued)

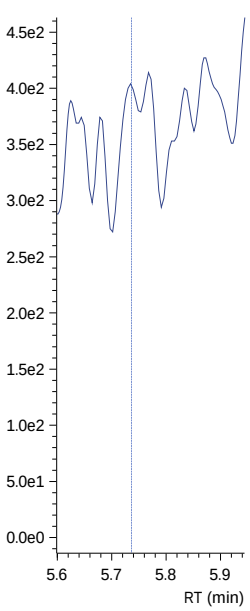
N-MeFOSE-d7
Conc 5.0939
Q 622.70>59.10 (-) 1.22e5



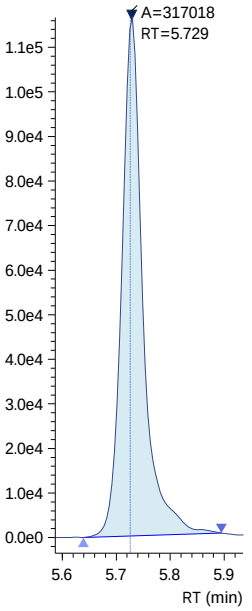
N-MeFOSE-d7_IS
Conc 5.0000
ISTD 622.70>59.10 (-) 1.22e5



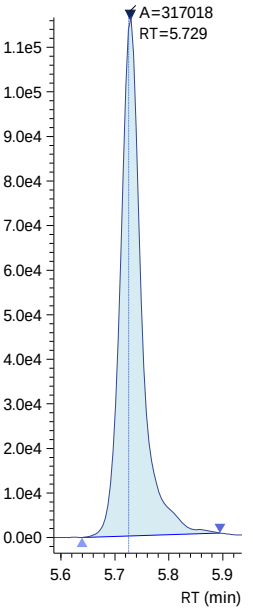
N-EtFOSE
Conc ----
Q 630.00>58.90 (-) 4.63e2



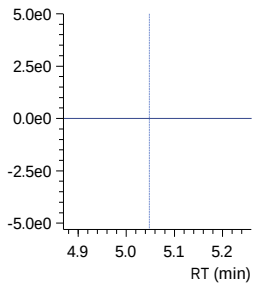
N-EtFOSE-d9
Conc 5.1727
Q 638.70>59.10 (-) 1.17e5



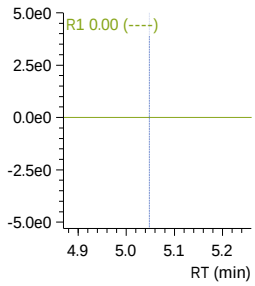
N-EtFOSE-d9_IS
Conc 5.0000
ISTD 638.70>59.10 (-) 1.17e5



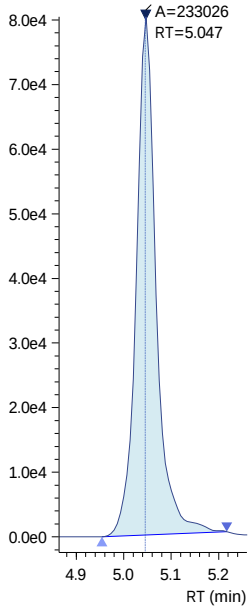
N-MeFOSAA
Conc ----
R#1 0.00 (35.26)
Q 570.20>419.00 (-) 0.00e0



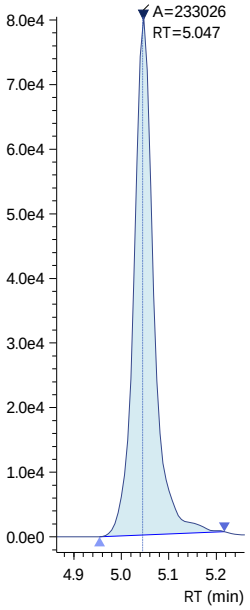
R1 570.20>512.00 (-) 0.00e0



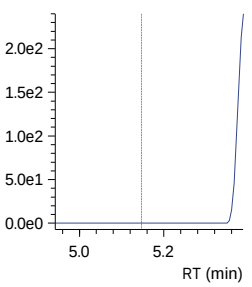
N-MeFOSAA-d3
Conc 4.8266
Q 572.80>419.05 (-) 8.05e4



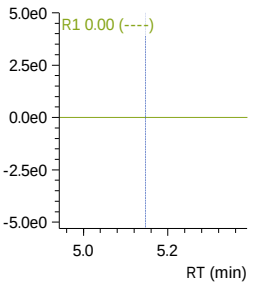
N-MeFOSAA-d3_IS
Conc 5.0000
ISTD 572.80>419.05 (-) 8.05e4



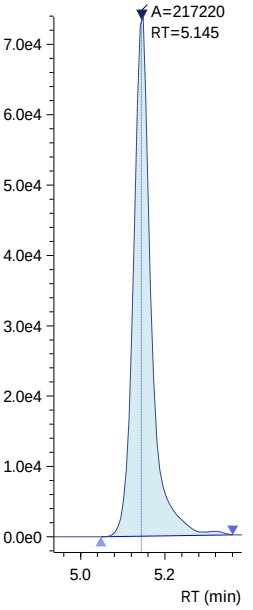
N-EtFOSAA
Conc ----
R#1 0.00 (77.25)
Q 584.20>418.95 (-) 2.40e2



R1 584.20>526.10 (-) 0.00e0

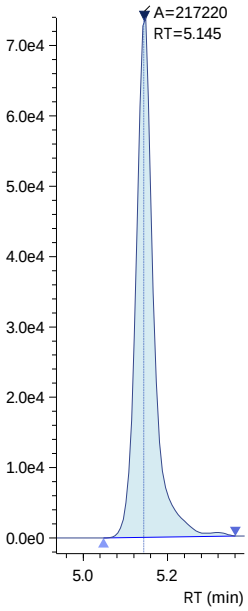


N-EtFOSAA-d5
Conc 4.8329
Q 588.80>419.00 (-) 7.39e4

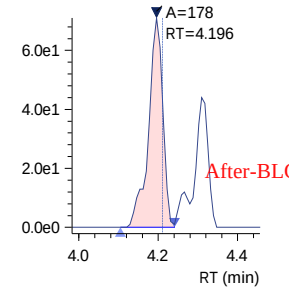


210819_019 (continued)

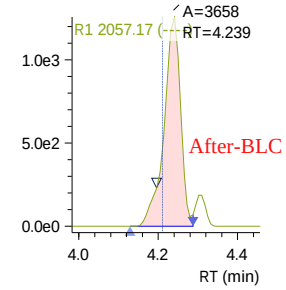
N-EtFOSAA-d5_IS
Conc 5.0000
ISTD 588.80>419.00 (-) 7.39e4



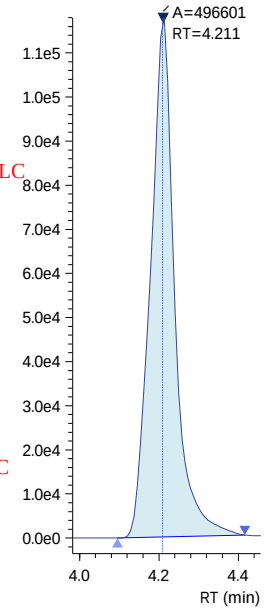
4_2-FTS_1
Conc 0.0018
R#1 2057.17 (39.85)
Q 327.00>307.05 (-) 7.10e1



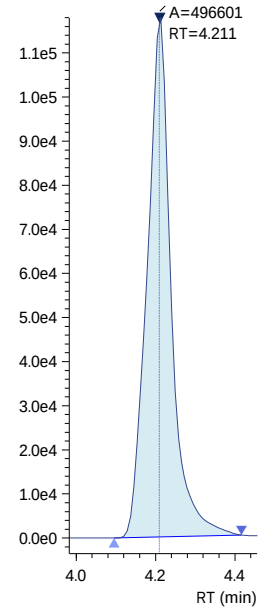
R1 327.00>81.10 (-) 1.26e3



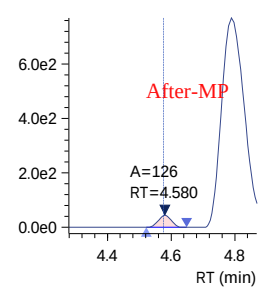
4_2-FTS-13C
Conc 5.0422
Q 328.80>309.05 (-) 1.18e5



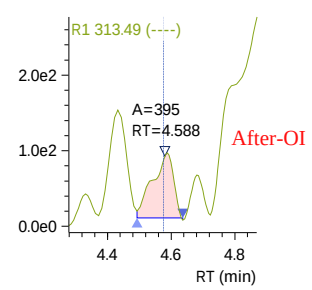
4_2-FTS-13C_IS
Conc 5.0000
ISTD 328.80>309.05 (-) 1.18e5



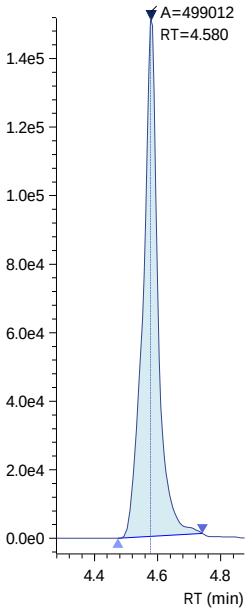
6_2-FTS_1
Conc 0.0009
R#1 313.49 (29.95)
Q 427.00>407.00 (-) 7.70e2



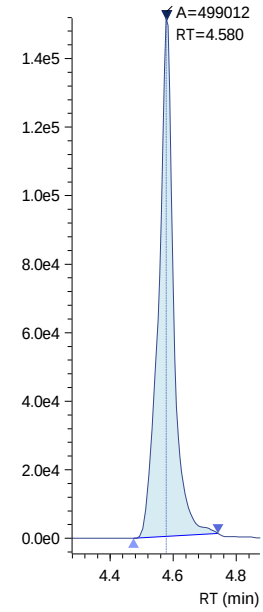
R1 427.00>80.90 (-) 2.77e2



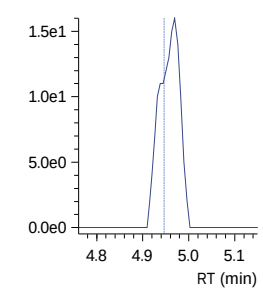
6_2-FTS-13C
Conc 5.3633
Q 428.90>409.00 (-) 1.52e5



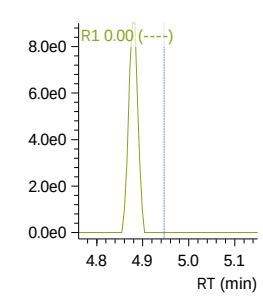
6_2-FTS-13C_IS
Conc 5.0000
ISTD 428.90>409.00 (-) 1.52e5



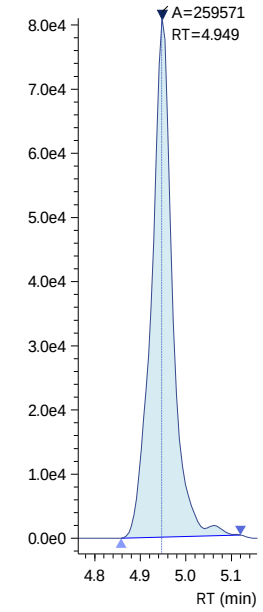
8_2-FTS_1
Conc ----
R#1 0.00 (9.42)
Q 527.10>506.90 (-) 1.60e1



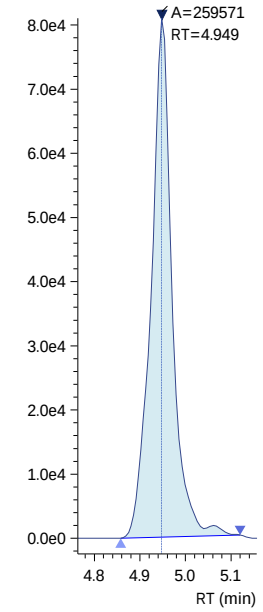
R1 527.20>487.00 (-) 9.00e0



8_2-FTS-13C
Conc 5.2415
Q 528.80>509.00 (-) 8.11e4



8_2-FTS-13C_IS
Conc 5.0000
ISTD 528.80>509.00 (-) 8.11e4



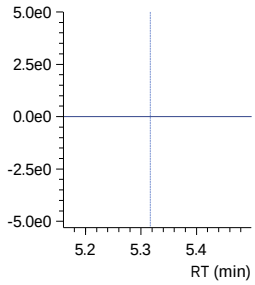
210819_019 (continued)

10_2-FtS_1

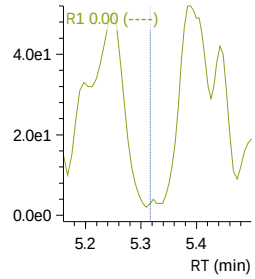
Conc ----

R#1 0.00 (49.86)

Q 627.00>606.95 (-) 0.00e0



R1 627.00>81.25 (-) 5.20e1

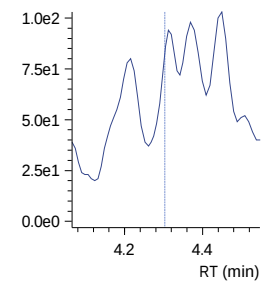


HPFO_DA

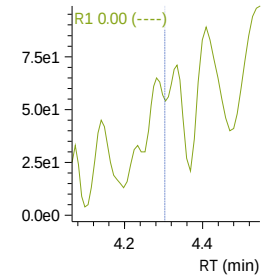
Conc ----

R#1 0.00 (101.52)

Q 329.00>169.00 (-) 1.03e2



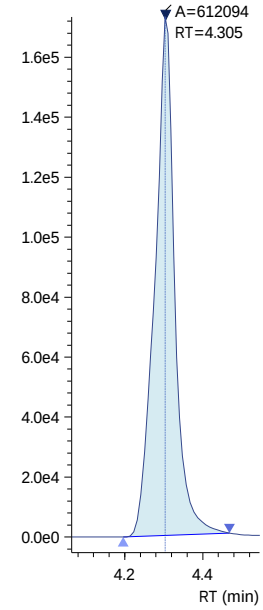
R1 329.00>285.10 (-) 9.90e1



HFPO_DA-13C

Conc 5.5275

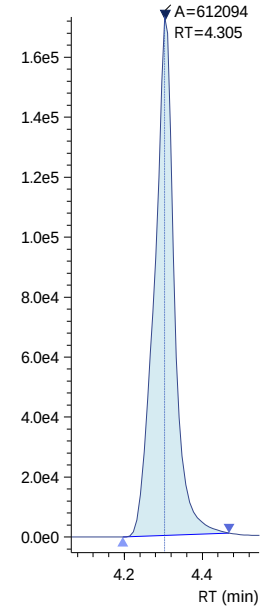
Q 332.00>286.80 (-) 1.73e5



HFPO_DA-13C_IS

Conc 5.0000

ISTD 332.00>286.80 (-) 1.73e5

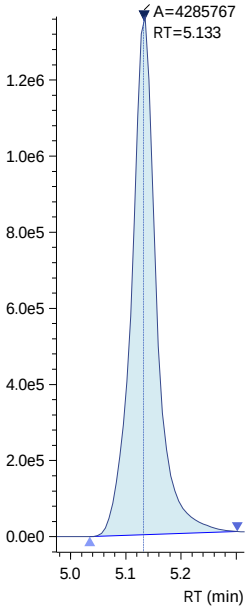


Insight Report
Before Manual Integration
Printed 8/20/2021 09:47:37

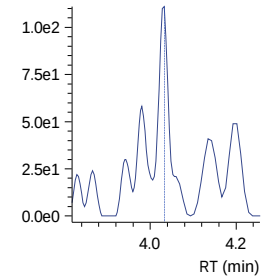
210819_019

Sample ID: CCB
Date Acquired: 8/19/2021 6:28:59 PM
Acquired by: System Administrator
Data File: 210819_019
Vial: 9 | Inj. Volume: 15.0000uL | Tray: 1

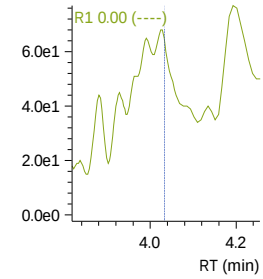
13C7-PFUnDA_IS
Conc 5.0000
ISTD 570.00>525.00 (-) 1.37e6



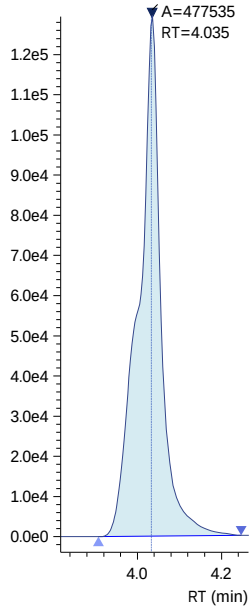
PFBS_1
Conc ----
R#1 0.00 (48.11)
Q 299.00>80.00 (-) 1.11e2



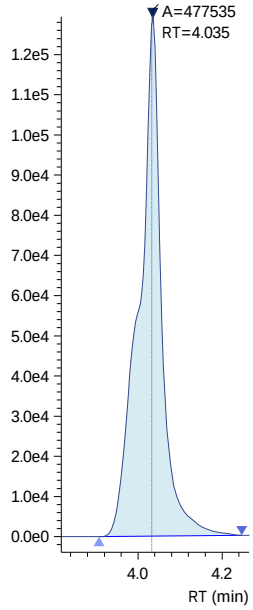
R1 298.80>99.00 (-) 7.70e1



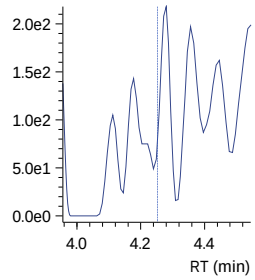
PFBS-13C
Conc 5.4007
Q 301.80>80.00 (-) 1.29e5



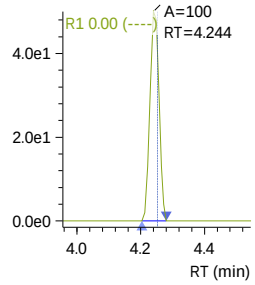
PFBS-13C_IS
Conc 5.0000
ISTD 301.80>80.00 (-) 1.29e5



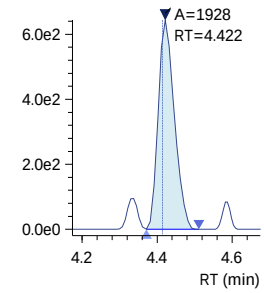
PFPeS
Conc ----
R#1 0.00 (149.27)
Q 349.00>99.00 (-) 2.18e2

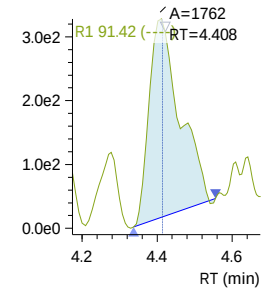


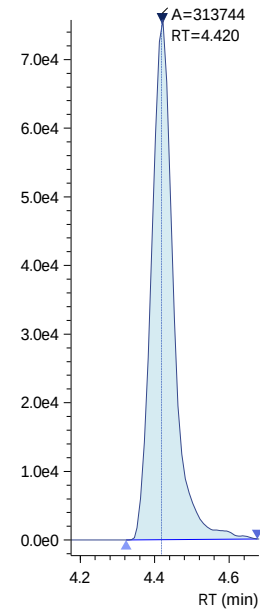
R1 349.00>79.95 (-) 5.00e1

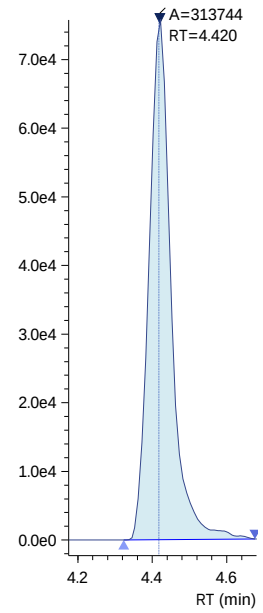


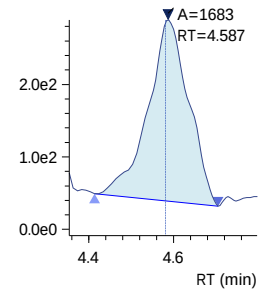
210819_019 (continued)

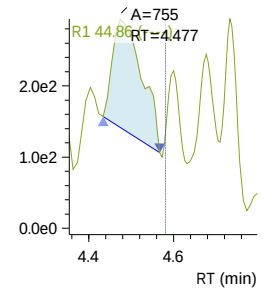
PFHxS_1
Conc 0.0166
R#1 91.42 (83.10)
Q 399.00>80.00 (-) 6.44e2


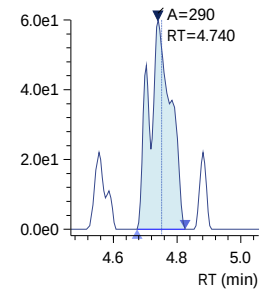
R1 399.00>99.00 (-) 3.28e2


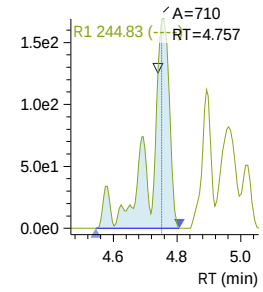
PFHxS-18O
Conc 5.2006
Q 402.70>84.05 (-) 7.58e4


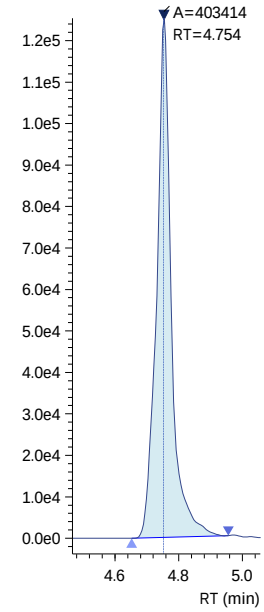
PFHxS-18O_IS
Conc 5.0000
ISTD 402.70>84.05 (-) 7.58e4


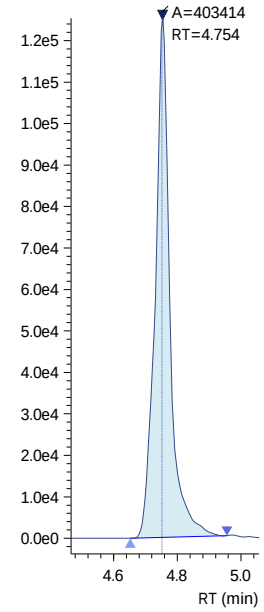
PFHpS_1
Conc 0.0126
R#1 44.86 (58.24)
Q 449.00>80.15 (-) 2.89e2


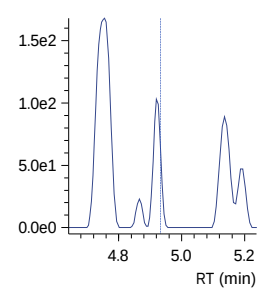
R1 449.00>99.20 (-) 2.94e2


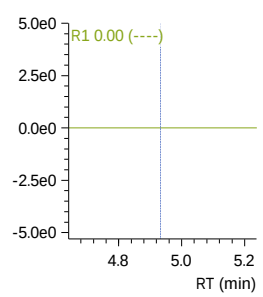
PFOS_1
Conc 0.0037
R#1 244.83 (87.63)
Q 499.00>80.00 (-) 6.00e1


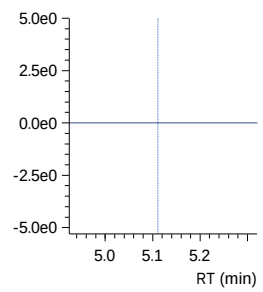
R1 499.00>99.00 (-) 1.69e2


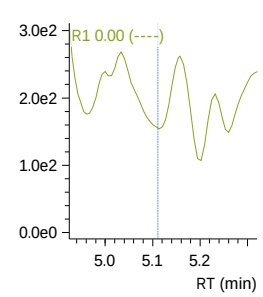
PFOS-13C
Conc 5.3804
Q 502.80>80.05 (-) 1.25e5


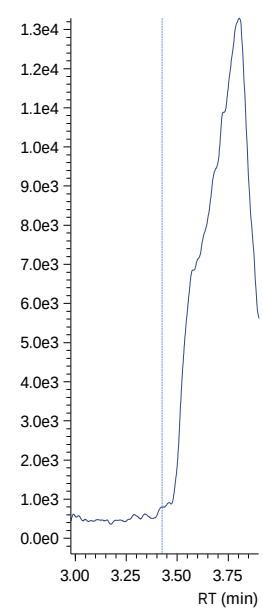
PFOS-13C_IS
Conc 5.0000
ISTD 502.80>80.05 (-) 1.25e5


PFNS
Conc ----
R#1 0.00 (137.56)
Q 549.00>99.00 (-) 1.68e2


R1 549.00>79.95 (-) 0.00e0


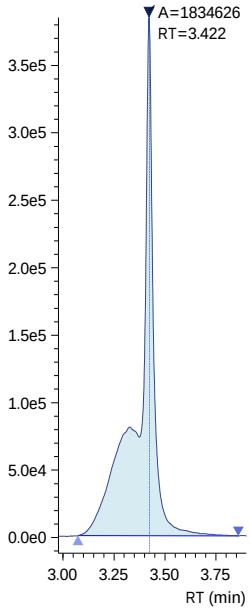
PFDS_1
Conc ----
R#1 0.00 (101.78)
Q 599.00>79.90 (-) 0.00e0


R1 599.00>99.10 (-) 3.11e2


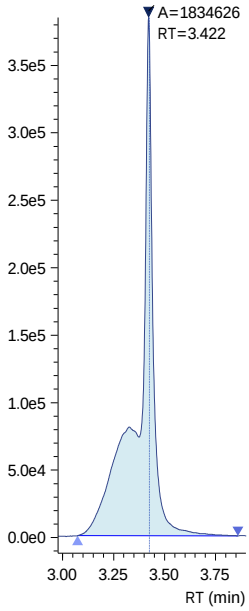
PFBA
Conc ----
Q 213.00>169.10 (-) 1.33e4


210819_019 (continued)

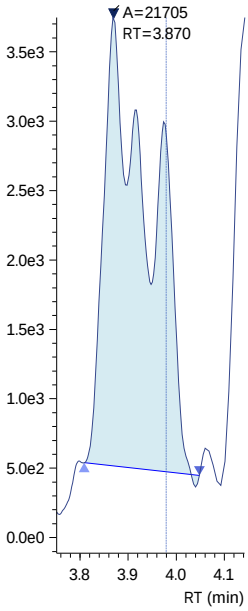
PFBA-13C
Conc 5.2412
Q 216.90>172.15 (-) 3.86e5



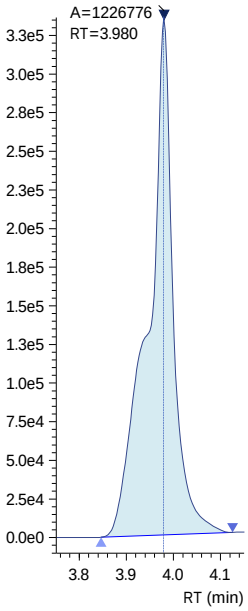
PFBA-13C_IS
Conc 5.0000
ISTD 216.90>172.15 (-) 3.86e5



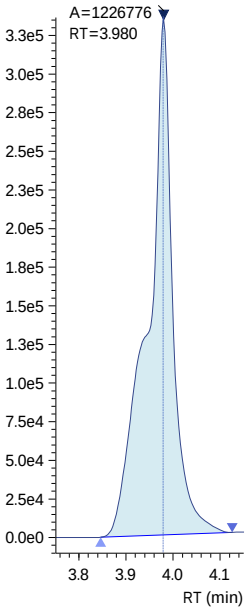
PFPeA
Conc 0.0117
Q 263.05>219.10 (-) 3.75e3



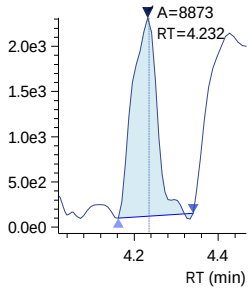
PFPeA-13C
Conc 5.3181
Q 267.90>223.00 (-) 3.37e5



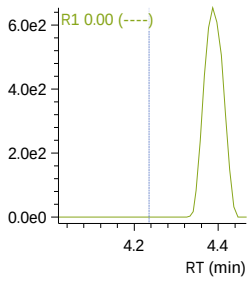
PFPeA-13C_IS
Conc 5.0000
ISTD 267.90>223.00 (-) 3.37e5



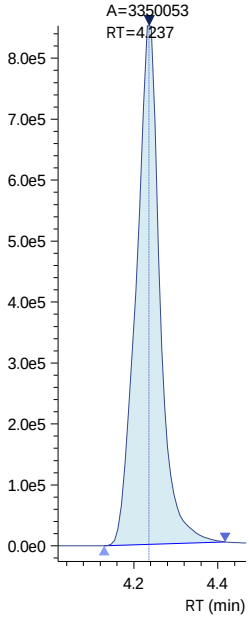
PFHxA
Conc 0.0097
R#1 0.00 (4.21)
Q 313.00>269.00 (-) 2.32e3



R1 313.00>119.10 (-) 6.54e2



PFHxA-13C
Conc 5.2598
Q 314.90>270.10 (-) 8.53e5



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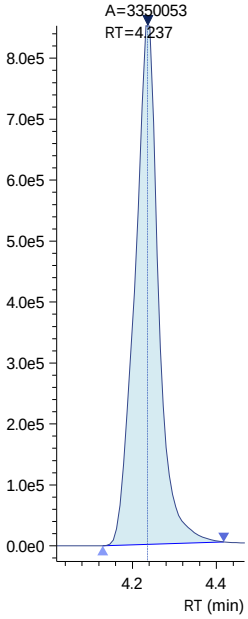
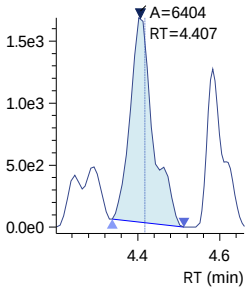
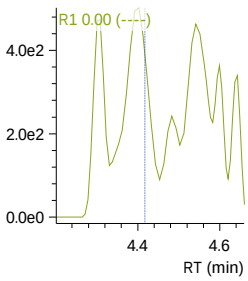
Conc 5.0000
ISTD 314.90>270.10 (-) 8.53e5



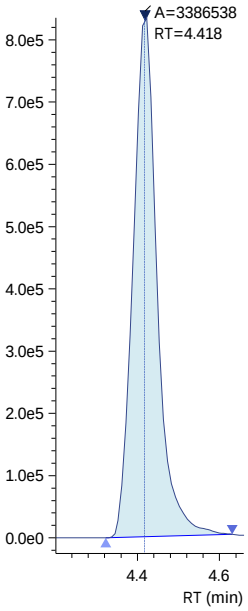
PFHpA
Conc -0.0024
R#1 0.00 (26.69)
Q 362.90>319.00 (-) 1.69e3



R1 362.90>169.00 (-) 5.02e2

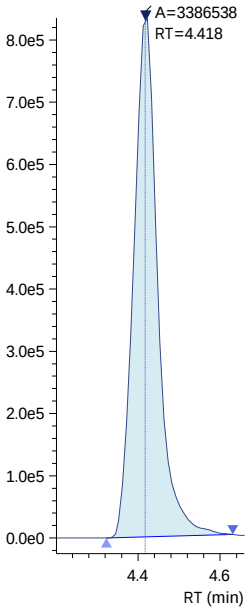


PFHpA-13C
Conc 5.2516
Q 366.90>322.10 (-) 8.35e5

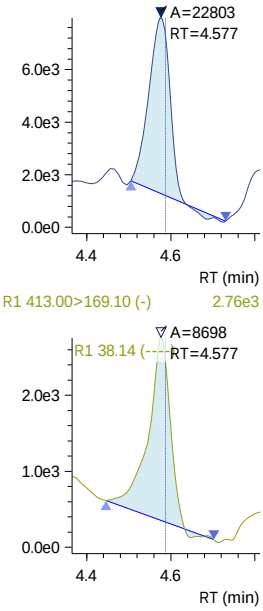


210819_019 (continued)

PFHpA-13C_IS
Conc 5.0000
ISTD 366.90>322.10 (-) 8.35e5

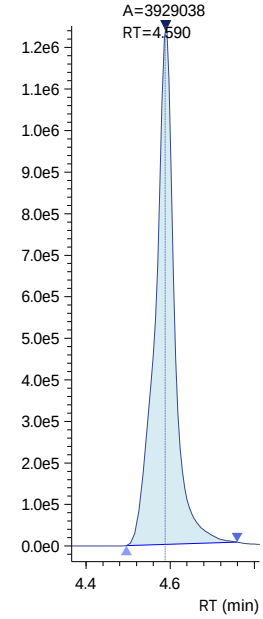


PFOA
Conc 0.0061
R#1 38.14 (31.31)
Q 413.00>369.00 (-) 7.97e3

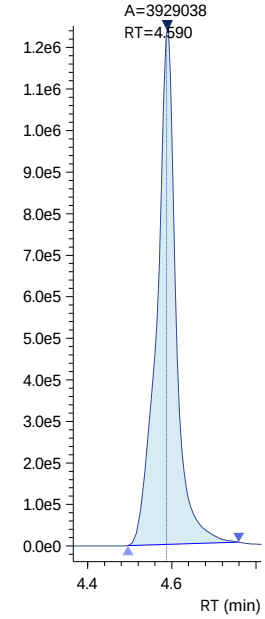


R1 413.00>169.10 (-) 2.76e3

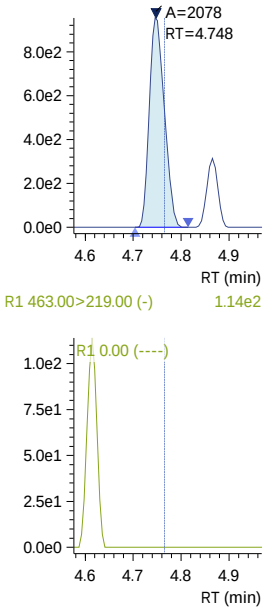
PFOA-13C
Conc 5.4730
Q 416.80>372.05 (-) 1.25e6



PFOA-13C_IS
Conc 5.0000
ISTD 416.80>372.05 (-) 1.25e6

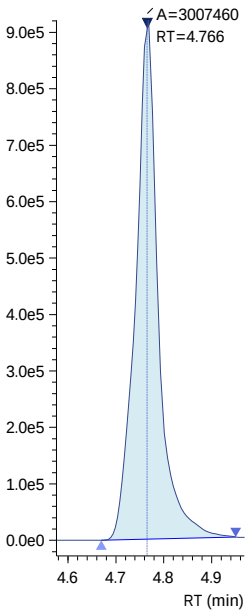


PFNA
Conc 0.0028
R#1 0.00 (20.54)
Q 463.00>418.90 (-) 9.54e2

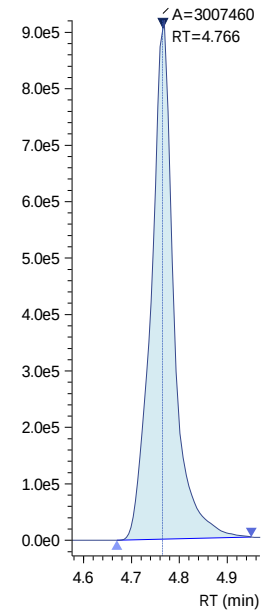


R1 463.00>219.00 (-) 1.14e2

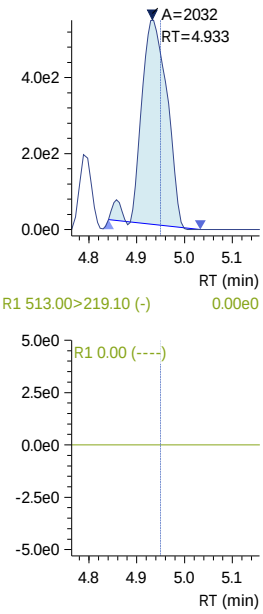
PFNA-13C
Conc 5.4919
Q 467.80>423.00 (-) 9.21e5



PFNA-13C_IS
Conc 5.0000
ISTD 467.80>423.00 (-) 9.21e5

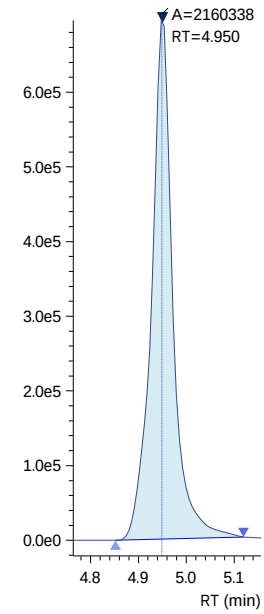


PFDA
Conc 0.0031
R#1 0.00 (20.01)
Q 513.00>468.80 (-) 5.51e2

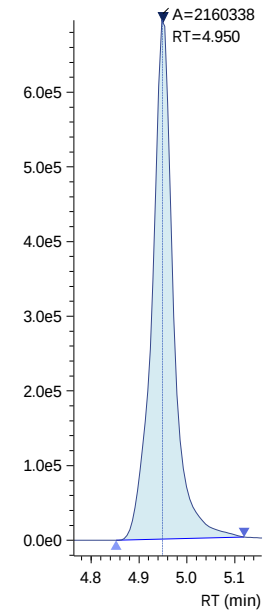


R1 513.00>219.10 (-) 0.00e0

PFDA-13C
Conc 5.3374
Q 514.80>469.95 (-) 6.96e5

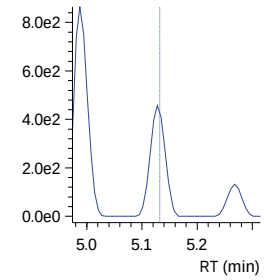


PFDA-13C_IS
Conc 5.0000
ISTD 514.80>469.95 (-) 6.96e5

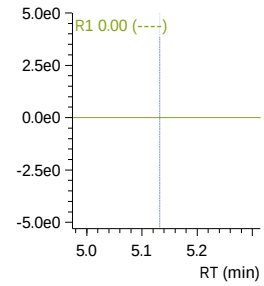


210819_019 (continued)

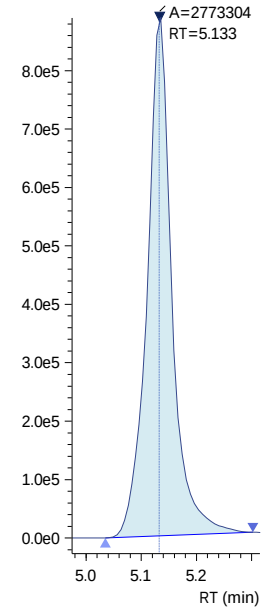
PFUnA
Conc ----
R#1 0.00 (13.39)
Q 563.00>518.90 (-) 8.64e2



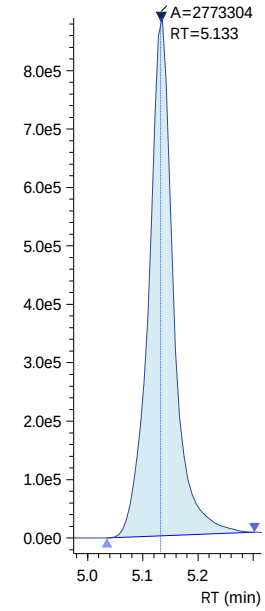
R1 563.00>219.00 (-) 0.00e0



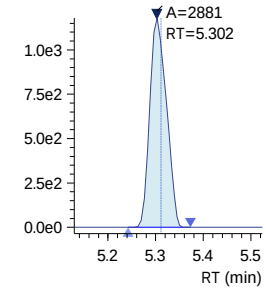
PFUnA-13C
Conc 5.1426
Q 564.80>519.95 (-) 8.90e5



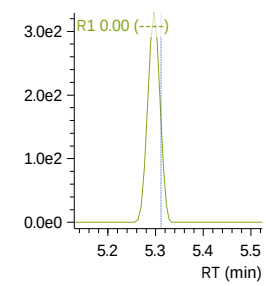
PFUnA-13C_IS
Conc 5.0000
ISTD 564.80>519.95 (-) 8.90e5



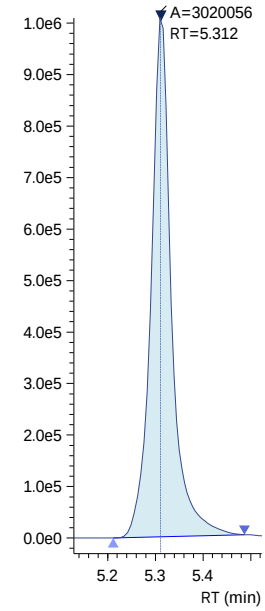
PFDoA
Conc 0.0049
R#1 0.00 (16.84)
Q 613.05>569.00 (-) 1.18e3



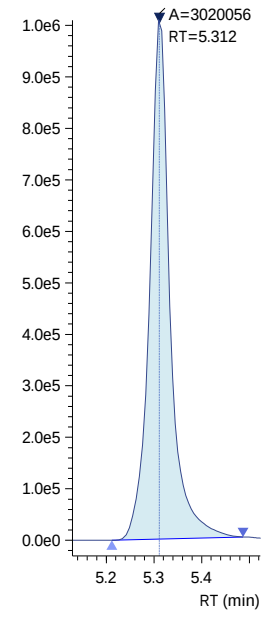
R1 613.05>169.00 (-) 3.29e2



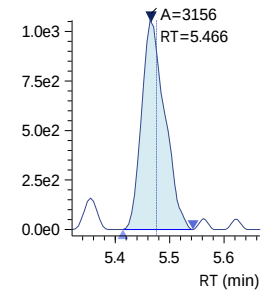
PFDoA-13C
Conc 5.1124
Q 614.80>569.95 (-) 1.01e6



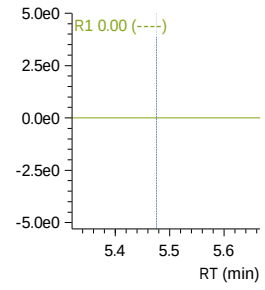
PFDoA-13C_IS
Conc 5.0000
ISTD 614.80>569.95 (-) 1.01e6



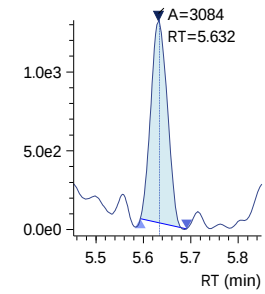
PFTrDA
Conc 0.0054
R#1 0.00 (16.76)
Q 663.00>618.90 (-) 1.06e3



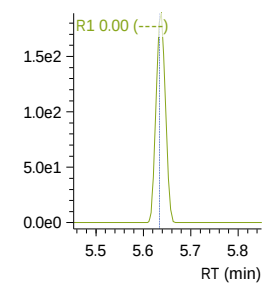
R1 662.90>169.00 (-) 0.00e0



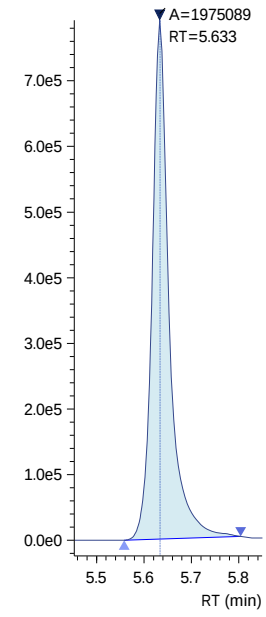
PFTeDA
Conc 0.0068
R#1 0.00 (16.56)
Q 713.00>669.00 (-) 1.33e3



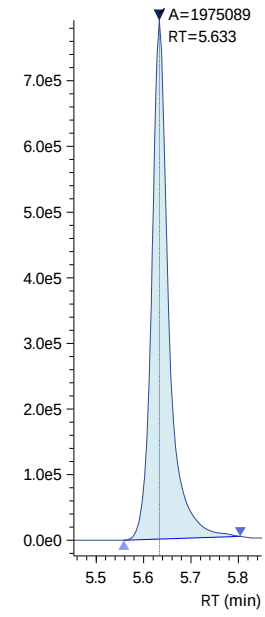
R1 713.00>169.10 (-) 1.89e2



PFTeDA-13C
Conc 4.9406
Q 714.70>669.90 (-) 7.92e5

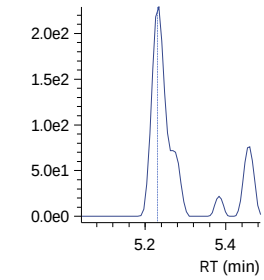


PFTeDA-13C_IS
Conc 5.0000
ISTD 714.70>669.90 (-) 7.92e5

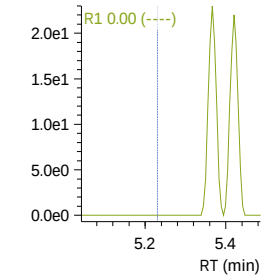


210819_019 (continued)

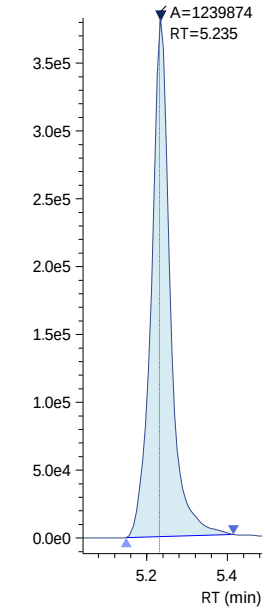
FOSA
Conc ----
R#1 0.00 (4.59)
Q 498.20>78.00 (-) 2.29e2



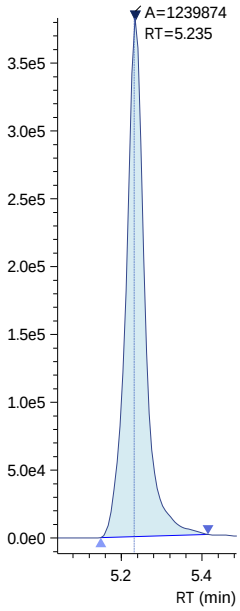
R1 498.20>64.10 (-) 2.30e1



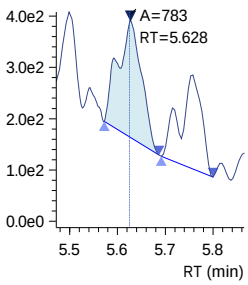
FOSA-13C
Conc 4.8702
Q 506.00>78.05 (-) 3.83e5



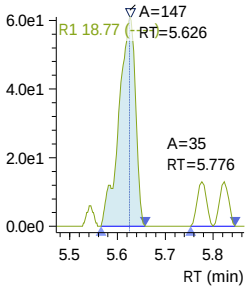
FOSA-13C_IS
Conc 5.0000
ISTD 506.00>78.05 (-) 3.83e5



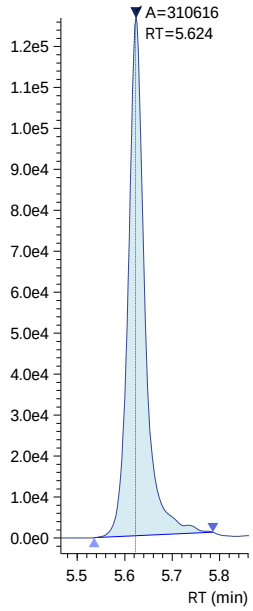
N-MeFOSA
Conc 0.0061
R#1 18.77 (68.73)
Q 512.00>169.10 (-) 4.08e2



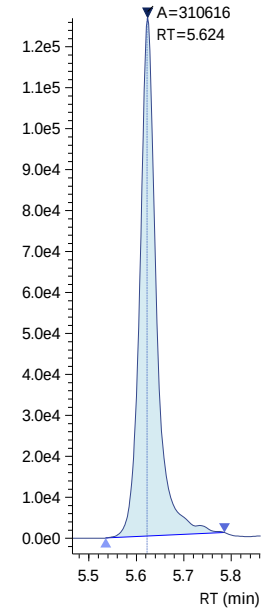
R1 512.00>219.00 (-) 6.10e1



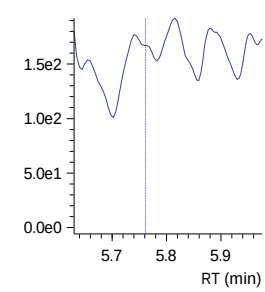
N-MeFOSA-d3
Conc 5.2473
Q 514.90>168.90 (-) 1.27e5



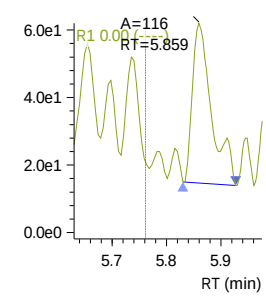
N-MeFOSA-d3_IS
Conc 5.0000
ISTD 514.90>168.90 (-) 1.27e5



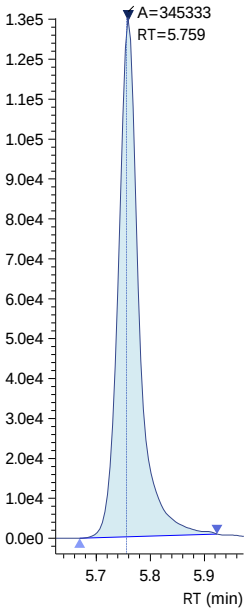
N-EtFOSA
Conc ----
R#1 0.00 (62.10)
Q 526.90>169.10 (-) 1.92e2



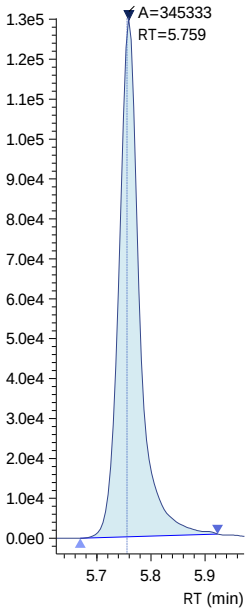
R1 526.90>219.00 (-) 6.20e1



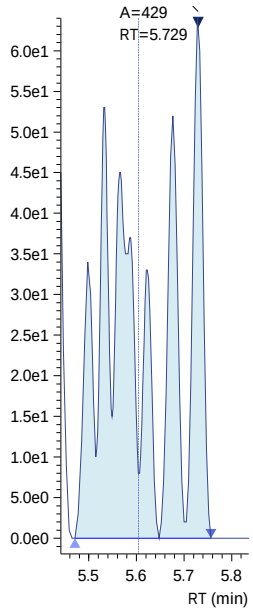
N-EtFOSA-d9
Conc 5.1344
Q 530.90>169.15 (-) 1.30e5



N-EtFOSA-d9_IS
Conc 5.0000
ISTD 530.90>169.15 (-) 1.30e5

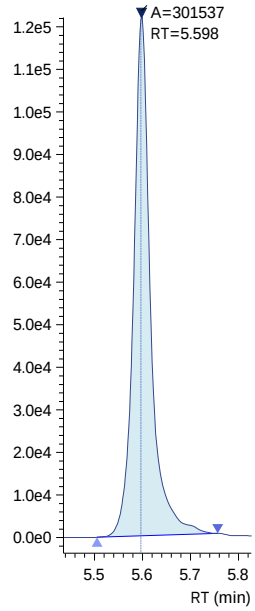


N-MeFOSE
Conc 0.0032
Q 616.00>59.00 (-) 6.40e1

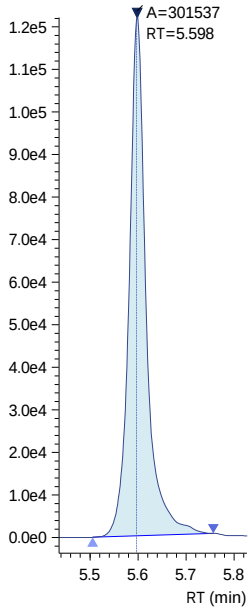


210819_019 (continued)

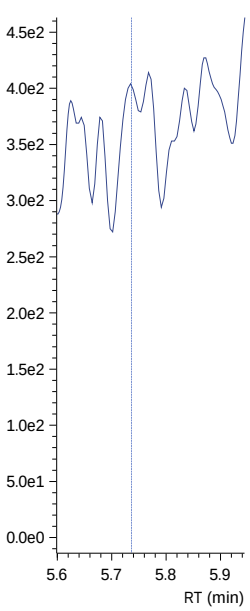
N-MeFOSE-d7
Conc 5.0939
Q 622.70>59.10 (-) 1.22e5



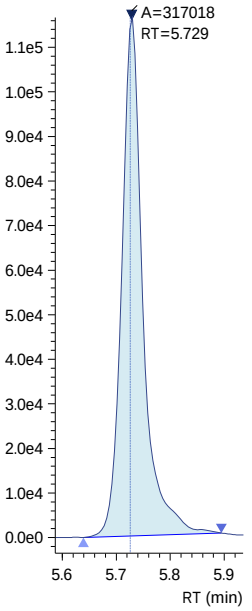
N-MeFOSE-d7_IS
Conc 5.0000
ISTD 622.70>59.10 (-) 1.22e5



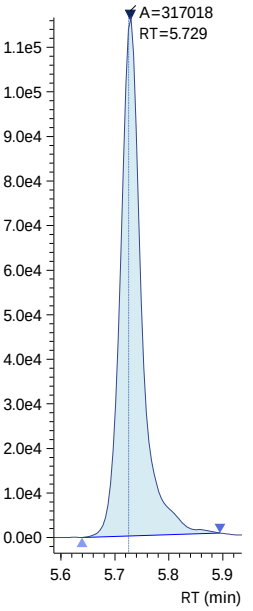
N-EtFOSE
Conc ----
Q 630.00>58.90 (-) 4.63e2



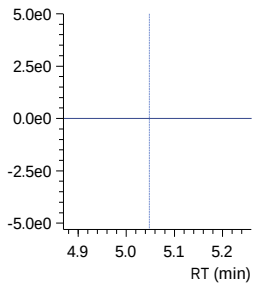
N-EtFOSE-d9
Conc 5.1727
Q 638.70>59.10 (-) 1.17e5



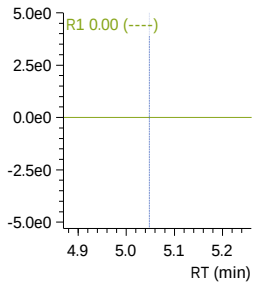
N-EtFOSE-d9_IS
Conc 5.0000
ISTD 638.70>59.10 (-) 1.17e5



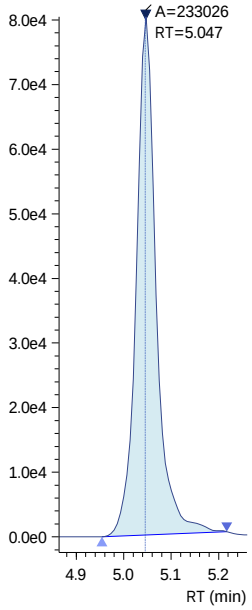
N-MeFOSAA
Conc ----
R#1 0.00 (52.81)
Q 570.20>419.00 (-) 0.00e0



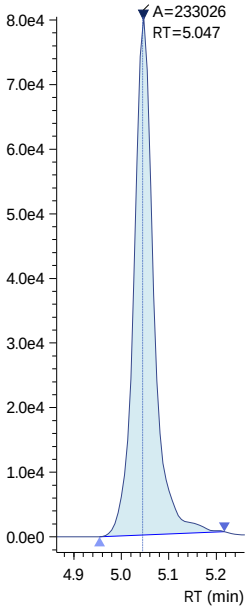
R1 570.20>512.00 (-) 0.00e0



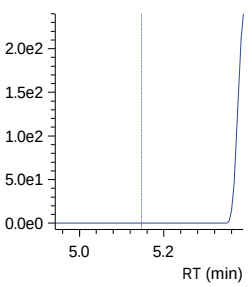
N-MeFOSAA-d3
Conc 4.8179
Q 572.80>419.05 (-) 8.05e4



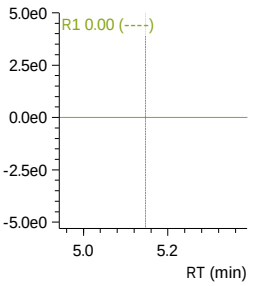
N-MeFOSAA-d3_IS
Conc 5.0000
ISTD 572.80>419.05 (-) 8.05e4



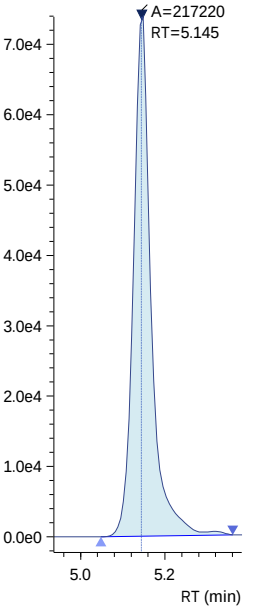
N-EtFOSAA
Conc ----
R#1 0.00 (86.68)
Q 584.20>418.95 (-) 2.40e2



R1 584.20>526.10 (-) 0.00e0

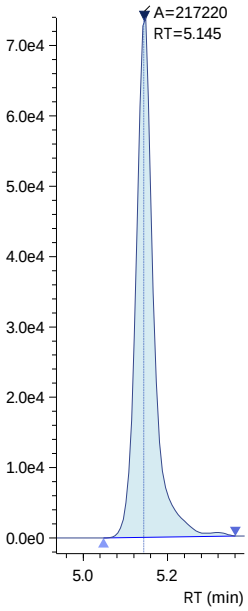


N-EtFOSAA-d5
Conc 4.8041
Q 588.80>419.00 (-) 7.39e4

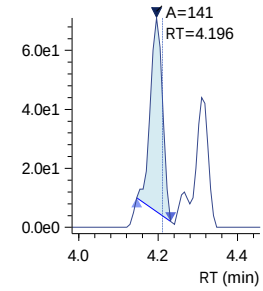


210819_019 (continued)

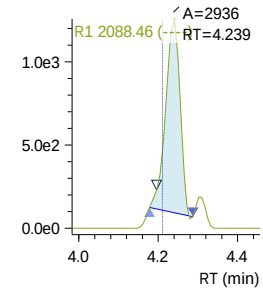
N-EtFOSAA-d5_IS
Conc 5.0000
ISTD 588.80>419.00 (-) 7.39e4



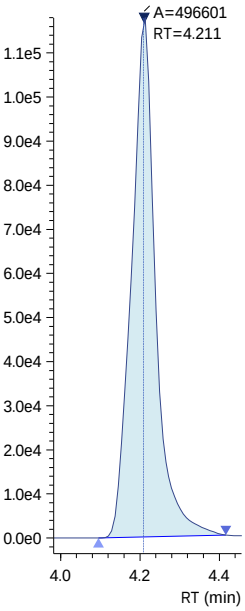
4_2-FTS_1
Conc 0.0014
R#1 2088.46 (33.17)
Q 327.00>307.05 (-) 7.10e1



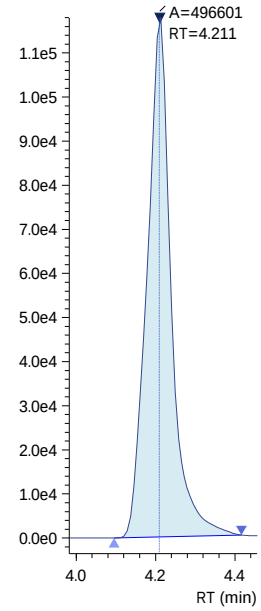
R1 327.00>81.10 (-) 1.26e3



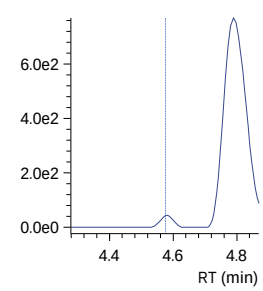
4_2-FTS-13C
Conc 5.0422
Q 328.80>309.05 (-) 1.18e5



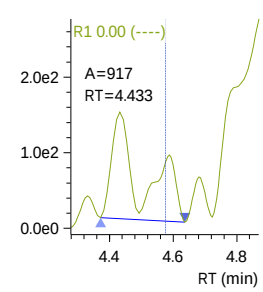
4_2-FTS-13C_IS
Conc 5.0000
ISTD 328.80>309.05 (-) 1.18e5



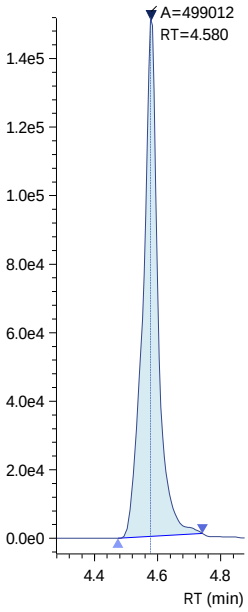
6_2-FTS_1
Conc ----
R#1 0.00 (31.24)
Q 427.00>407.00 (-) 7.70e2



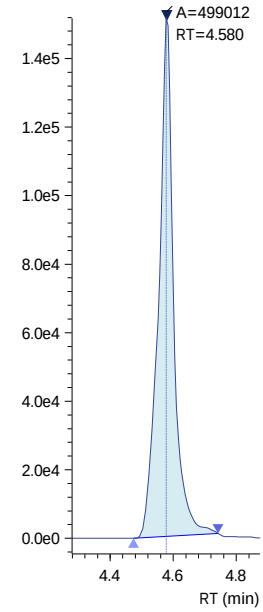
R1 427.00>80.90 (-) 2.77e2



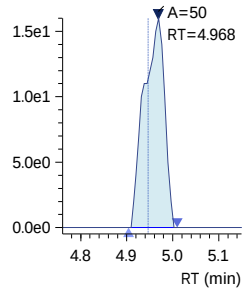
6_2-FTS-13C
Conc 5.3633
Q 428.90>409.00 (-) 1.52e5



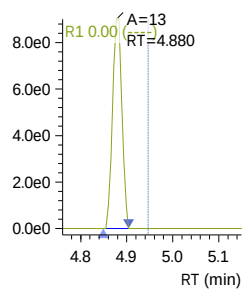
6_2-FTS-13C_IS
Conc 5.0000
ISTD 428.90>409.00 (-) 1.52e5



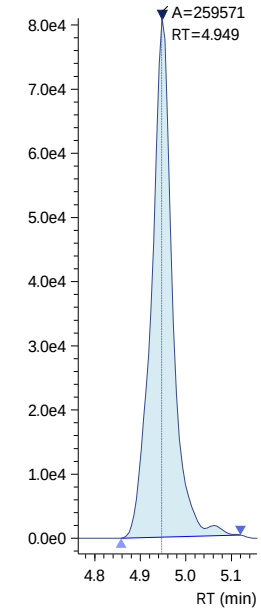
8_2-FTS_1
Conc 0.0008
R#1 0.00 (9.11)
Q 527.10>506.90 (-) 1.60e1



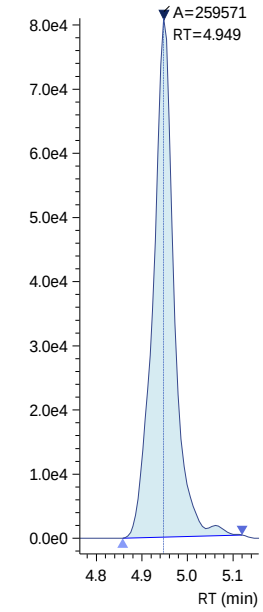
R1 527.20>487.00 (-) 9.00e0



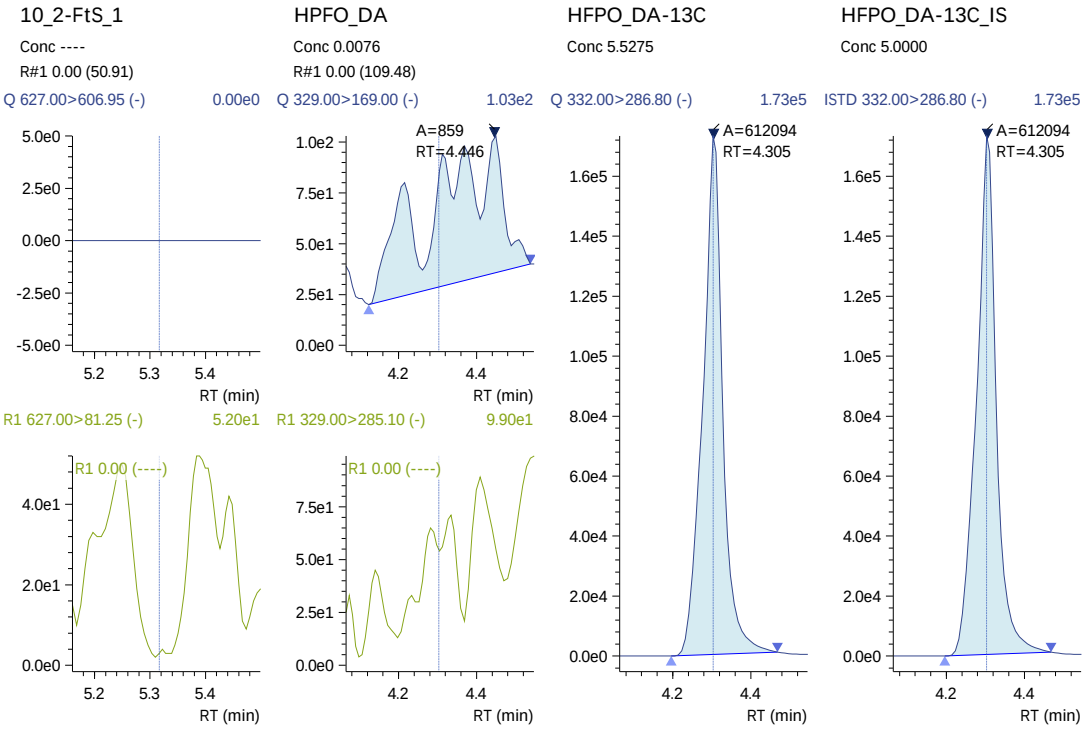
8_2-FTS-13C
Conc 5.2415
Q 528.80>509.00 (-) 8.11e4



8_2-FTS-13C_IS
Conc 5.0000
ISTD 528.80>509.00 (-) 8.11e4



210819_019 (continued)



Insight Report
Retention Time/Signal:Noise Ratio Confirmation
Printed 8/20/2021 11:18:22

210819_020

Sample ID: PFC ICAL @ 0.05ppb
Date Acquired: 8/19/2021 6:39:24 PM
Acquired by: System Administrator
Data File: 210819_020
Vial: 1 | Inj. Volume: 15.0000uL | Tray: 0

Name	m/z	Ref 1 m/z	Found RT	RT Diff	ISTD RT Diff	S/N	Ref 1 S/N	Flag ID
13C7-PFUnDA_IS	570.00>525.00	----	5.137	0.005	----	22007	----	
PFBS_1	299.00>80.00	298.80>99.00	4.040	0.007	0.001	449	387	
PFBS-13C	301.80>80.00	----	4.039	0.006	-1.098	(INF)	----	
PFBS-13C_IS	301.80>80.00	----	4.039	0.006	----	(INF)	----	
PFPeS	349.00>99.00	349.00>79.95	4.250	-0.003	0.211	44	54	
PFHxS_1	399.00>80.00	399.00>99.00	4.423	0.009	-0.002	(INF)	24	
PFHxS-18O	402.70>84.05	----	4.425	0.007	-0.712	(INF)	----	
PFHxS-18O_IS	402.70>84.05	----	4.425	0.007	----	(INF)	----	
PFHpS_1	449.00>80.15	449.00>99.20	4.585	0.004	0.160	196	22	
PFOS_1	499.00>80.00	499.00>99.00	4.757	0.005	0.000	74	69	
PFOS-13C	502.80>80.05	----	4.757	0.005	-0.380	10681	----	
PFOS-13C_IS	502.80>80.05	----	4.757	0.005	----	10681	----	
PFNS	549.00>99.00	549.00>79.95	4.933	0.000	0.176	19	(INF)	
PFDS_1	599.00>79.90	599.00>99.10	5.112	0.001	0.355	(INF)	22	
PFBA	213.00>169.10	----	3.432	0.006	0.001	8	----	SN error in calc.
PFBA-13C	216.90>172.15	----	3.431	0.006	-1.706	7407	----	
PFBA-13C_IS	216.90>172.15	----	3.431	0.006	----	7407	----	
PFPeA	263.05>219.10	----	3.983	0.004	-0.001	96	----	
PFPeA-13C	267.90>223.00	----	3.984	0.005	-1.153	16374	----	
PFPeA-13C_IS	267.90>223.00	----	3.984	0.005	----	16374	----	
PFHxA	313.00>269.00	313.00>119.10	4.242	0.006	0.001	87	17	IRr
PFHxA-13C	314.90>270.10	----	4.241	0.005	-0.896	32632	----	
PFHxA-13C_IS	314.90>270.10	----	4.241	0.005	----	32632	----	
PFHpA	362.90>319.00	362.90>169.00	4.424	0.007	0.000	99	(INF)	
PFHpA-13C	366.90>322.10	----	4.424	0.007	-0.713	33720	----	
PFHpA-13C_IS	366.90>322.10	----	4.424	0.007	----	33720	----	
PFOA	413.00>369.00	413.00>169.10	4.591	0.003	-0.002	85	91	
PFOA-13C	416.80>372.05	----	4.593	0.005	-0.544	59587	----	
PFOA-13C_IS	416.80>372.05	----	4.593	0.005	----	59587	----	
PFNA	463.00>418.90	463.00>219.00	4.770	0.005	0.002	11196	(INF)	
PFNA-13C	467.80>423.00	----	4.768	0.003	-0.369	(INF)	----	
PFNA-13C_IS	467.80>423.00	----	4.768	0.003	----	(INF)	----	
PFDA	513.00>468.80	513.00>219.10	4.951	0.002	-0.002	(INF)	(INF)	
PFDA-13C	514.80>469.95	----	4.953	0.004	-0.184	729111	----	
PFDA-13C_IS	514.80>469.95	----	4.953	0.004	----	729111	----	
PFUnA	563.00>518.90	563.00>219.00	5.139	0.006	0.002	242	(INF)	
PFUnA-13C	564.80>519.95	----	5.137	0.005	0.000	14332	----	
PFUnA-13C_IS	564.80>519.95	----	5.137	0.005	----	14332	----	
PFDoA	613.05>569.00	613.05>169.00	5.319	0.008	0.004	(INF)	(INF)	
PFDoA-13C	614.80>569.95	----	5.315	0.004	0.178	44832	----	
PFDoA-13C_IS	614.80>569.95	----	5.315	0.004	----	44832	----	
PFTrDA	663.00>618.90	662.90>169.00	5.478	0.002	-0.158	273	(INF)	
PFTeDA	713.00>669.00	713.00>169.10	5.637	0.003	0.001	211	(INF)	
PFTeDA-13C	714.70>669.90	----	5.636	0.002	0.499	9813	----	
PFTeDA-13C_IS	714.70>669.90	----	5.636	0.002	----	9182	----	
FOSA	498.20>78.00	498.20>64.10	5.236	0.005	0.000	86	(INF)	
FOSA-13C	506.00>78.05	----	5.236	0.005	0.099	1277	----	
FOSA-13C_IS	506.00>78.05	----	5.236	0.005	----	1277	----	
N-MeFOSA	512.00>169.10	512.00>219.00	5.627	0.002	0.001	28	56	
N-MeFOSA-d3	514.90>168.90	----	5.626	0.004	0.489	755	----	
N-MeFOSA-d3_IS	514.90>168.90	----	5.626	0.004	----	755	----	

J:\LCMS06\Data\210819_Curve\210819_Curve.DAMLP .

SN - Software-calculated S/N ratio outside criteria due to non-target peaks or drift in noise calculation window. Analyst review of noise levels (excluding non-target peaks) in chromatogram indicates S/N ratio meets criteria.

210819_020 (continued)

(Table continued from previous page)

Name	m/z	Ref 1 m/z	Found RT	RT Diff	ISTD RT Diff	S/N	Ref 1 S/N	Flag ID
N-EtFOSA	526.90>169.10	526.90>219.00	5.761	0.000	0.001	21	13	
N-EtFOSA-d9	530.90>169.15	----	5.760	0.004	0.623	(INF)	----	
N-EtFOSA-d9_IS	530.90>169.15	----	5.760	0.004	----	(INF)	----	
N-MeFOSE	616.00>59.00	----	5.608	0.003	0.008	70	----	
N-MeFOSE-d7	622.70>59.10	----	5.600	0.003	0.463	1213	----	
N-MeFOSE-d7_IS	622.70>59.10	----	5.600	0.003	----	1213	----	
N-EtFOSE	630.00>58.90	----	5.738	0.002	0.008	58	----	
N-EtFOSE-d9	638.70>59.10	----	5.730	0.004	0.593	6559	----	
N-EtFOSE-d9_IS	638.70>59.10	----	5.730	0.004	----	6559	----	
N-MeFOSAA	570.20>419.00	570.20>512.00	5.055	0.007	0.005	(INF)	(INF)	AC, IRr
N-MeFOSAA-d3	572.80>419.05	----	5.050	0.005	-0.087	(INF)	----	
N-MeFOSAA-d3_IS	572.80>419.05	----	5.050	0.005	----	(INF)	----	
N-EtFOSAA	584.20>418.95	584.20>526.10	5.140	-0.008	-0.008	(INF)	(INF)	IRr
N-EtFOSAA-d5	588.80>419.00	----	5.148	0.004	0.011	92292	----	
N-EtFOSAA-d5_IS	588.80>419.00	----	5.148	0.004	----	92292	----	
4_2-FTS_1	327.00>307.05	327.00>81.10	4.212	0.002	-0.005	(INF)	(INF)	IRr
4_2-FTS-13C	328.80>309.05	----	4.217	0.007	-0.920	93510	----	
4_2-FTS-13C_IS	328.80>309.05	----	4.217	0.007	----	103593	----	
6_2-FTS_1	427.00>407.00	427.00>80.90	4.583	0.007	0.001	(INF)	11	
6_2-FTS-13C	428.90>409.00	----	4.582	0.004	-0.555	(INF)	----	
6_2-FTS-13C_IS	428.90>409.00	----	4.582	0.004	----	(INF)	----	
8_2-FTS_1	527.10>506.90	527.20>487.00	4.952	0.005	0.001	(INF)	(INF)	
8_2-FTS-13C	528.80>509.00	----	4.951	0.004	-0.186	(INF)	----	
8_2-FTS-13C_IS	528.80>509.00	----	4.951	0.004	----	(INF)	----	
10_2-FtS_1	627.00>606.95	627.00>81.25	5.321	0.004	0.370	1761	45	
HPFO_DA	329.00>169.00	329.00>285.10	4.309	0.006	0.000	122	93	
HFPO_DA-13C	332.00>286.80	----	4.309	0.005	-0.828	99991	----	
HFPO_DA-13C_IS	332.00>286.80	----	4.309	0.005	----	99991	----	

Flag ID key: AC: Accuracy%, IRr: Ion Ratio (Relative), SN: S/N

SN - Software-calculated S/N ratio outside criteria due to non-target peaks or drift in noise calculation window. Analyst review of noise levels (excluding non-target peaks) in chromatogram indicates S/N ratio meets criteria.

1st UA 08/20/21

2nd 08/23/21

Insight Report
Ion Ratio Confirmation
Printed 8/20/2021 11:19:20

210819_020

Sample ID: PFC ICAL @ 0.05ppb
Date Acquired: 8/19/2021 6:39:24 PM
Acquired by: System Administrator
Data File: 210819_020
Vial: 1 | Inj. Volume: 15.0000uL | Tray: 0

Name	m/z	Ref 1 m/z	Area	Ref 1 Measured	Ref 1 Actual Ratio	Ref 1 Set Ratio	Comment 1	Flag ID
13C7-PFUnDA_IS	570.00>525.00	----	4565523	----	----	----		
PFBS_1	299.00>80.00	298.80>99.00	7143	3774	52.84	47.76	23.88-71.64	
PFBS-13C	301.80>80.00	----	473083	----	----	----	0-0	
PFBS-13C_IS	301.80>80.00	----	485460	----	----	----	0-0	
PFPeS	349.00>99.00	349.00>79.95	4615	4978	107.87	136.08	68.04 -204.13	
PFHxS_1	399.00>80.00	399.00>99.00	8408	4469	53.15	71.26	35.63 -106.89	
PFHxS-18O	402.70>84.05	----	331643	----	----	----	0-0	
PFHxS-18O_IS	402.70>84.05	----	331643	----	----	----	0-0	
PFHpS_1	449.00>80.15	449.00>99.20	7955	3697	46.47	53.84	26.92-80.76	
PFOS_1	499.00>80.00	499.00>99.00	4270	3153	73.84	86.72	43.36 -130.08	
PFOS-13C	502.80>80.05	----	396559	----	----	----	0-0	
PFOS-13C_IS	502.80>80.05	----	396559	----	----	----	0-0	
PFNS	549.00>99.00	549.00>79.95	3426	3610	105.37	129.18	64.59 -193.78	
PFDS_1	599.00>79.90	599.00>99.10	5375	5095	94.80	90.77	45.38 -136.15	
PFBA	213.00>169.10	----	11016	----	----	----		SN
PFBA-13C	216.90>172.15	----	1913636	----	----	----		
PFBA-13C_IS	216.90>172.15	----	1913636	----	----	----		
PFPeA	263.05>219.10	----	52137	----	----	----		
PFPeA-13C	267.90>223.00	----	1271925	----	----	----	0-0	
PFPeA-13C_IS	267.90>223.00	----	1271925	----	----	----	0-0	
PFHxA	313.00>269.00	313.00>119.10	47656	3477	7.30	4.17	2.08-6.25	IRr
PFHxA-13C	314.90>270.10	----	3449070	----	----	----	0-0	
PFHxA-13C_IS	314.90>270.10	----	3449070	----	----	----	0-0	
PFHpA	362.90>319.00	362.90>169.00	39379	11121	28.24	26.04	13.02-39.07	
PFHpA-13C	366.90>322.10	----	3559387	----	----	----	0-0	
PFHpA-13C_IS	366.90>322.10	----	3559387	----	----	----	0-0	
PFOA	413.00>369.00	413.00>169.10	77222	21694	28.09	30.35	15.18-45.53	
PFOA-13C	416.80>372.05	----	3913312	----	----	----	0-0	
PFOA-13C_IS	416.80>372.05	----	3913312	----	----	----	0-0	
PFNA	463.00>418.90	463.00>219.00	35413	11562	32.65	22.35	11.18-33.53	
PFNA-13C	467.80>423.00	----	2983263	----	----	----	0-0	
PFNA-13C_IS	467.80>423.00	----	2983263	----	----	----	0-0	
PFDA	513.00>468.80	513.00>219.10	33845	5779	17.08	18.73	9.36-28.09	
PFDA-13C	514.80>469.95	----	2186074	----	----	----	0-0	
PFDA-13C_IS	514.80>469.95	----	2186074	----	----	----	0-0	
PFUnA	563.00>518.90	563.00>219.00	31203	4025	12.90	11.60	5.8-17.4	
PFUnA-13C	564.80>519.95	----	2833735	----	----	----	0-0	
PFUnA-13C_IS	564.80>519.95	----	2833735	----	----	----	0-0	
PFDoA	613.05>569.00	613.05>169.00	32709	3221	9.85	15.11	7.55-22.66	
PFDoA-13C	614.80>569.95	----	3072694	----	----	----	0-0	
PFDoA-13C_IS	614.80>569.95	----	3072694	----	----	----	0-0	
PFTrDA	663.00>618.90	662.90>169.00	36024	4674	12.98	14.19	7.09-21.28	
PFTeDA	713.00>669.00	713.00>169.10	25554	3299	12.91	14.98	7.49-22.46	
PFTeDA-13C	714.70>669.90	----	2105534	----	----	----	0-0	
PFTeDA-13C_IS	714.70>669.90	----	2105534	----	----	----	0-0	
FOSA	498.20>78.00	498.20>64.10	15692	1026	6.54	4.89	2.44-7.33	

error in calc.

J:\LCMS06\Data\210819_Curve\210819_Curve.DAMLP .

Comment 1 field specifies acceptance range for Ref 1 ratio.
IRr - Ion ratio outside criteria. Exceedances for results above the MDL to be "K" flagged in the analytical report.

Insight Report
Ion Ratio Confirmation
Printed 8/20/2021 11:19:20

210819_020 (continued)

(Table continued from previous page)

Name	m/z	Ref 1 m/z	Area	Ref 1 Measured	Ref 1 Actual Ratio	Ref 1 Set Ratio	Comment 1	Flag ID
FOSA-13C	506.00>78.05	----	1336324	----	----	----	0-0	
FOSA-13C_IS	506.00>78.05	----	1336324	----	----	----	0-0	
N-MeFOSA	512.00>169.10	512.00>219.00	6496	3216	49.51	62.72	31.36-94.08	
N-MeFOSA-d3	514.90>168.90	----	320819	----	----	----	0-0	
N-MeFOSA-d3_IS	514.90>168.90	----	320819	----	----	----	0-0	
N-EtFOSA	526.90>169.10	526.90>219.00	1226	580	47.31	63.35	31.68-95.03	
N-EtFOSA-d9	530.90>169.15	----	370819	----	----	----	0-0	
N-EtFOSA-d9_IS	530.90>169.15	----	370819	----	----	----	0-0	
N-MeFOSE	616.00>59.00	----	6591	----	----	----		
N-MeFOSE-d7	622.70>59.10	----	311862	----	----	----		
N-MeFOSE-d7_IS	622.70>59.10	----	311862	----	----	----		
N-EtFOSE	630.00>58.90	----	6952	----	----	----		
N-EtFOSE-d9	638.70>59.10	----	335726	----	----	----	0-0	
N-EtFOSE-d9_IS	638.70>59.10	----	335726	----	----	----	0-0	
N-MeFOSAA	570.20>419.00	570.20>512.00	2853	1644	57.62	35.26	17.63-52.88	AC, IRr
N-MeFOSAA-d3	572.80>419.05	----	260406	----	----	----	0-0	
N-MeFOSAA-d3_IS	572.80>419.05	----	260406	----	----	----	0-0	
N-EtFOSAA	584.20>418.95	584.20>526.10	586	769	131.23	77.25	38.62 -115.87	IRr
N-EtFOSAA-d5	588.80>419.00	----	249466	----	----	----	0-0	
N-EtFOSAA-d5_IS	588.80>419.00	----	249466	----	----	----	0-0	
4_2-FTS_1	327.00>307.05	327.00>81.10	5453	4377	80.27	39.85	19.92-59.77	IRr
4_2-FTS-13C	328.80>309.05	----	538134	----	----	----	0-0	
4_2-FTS-13C_IS	328.80>309.05	----	538134	----	----	----	0-0	
6_2-FTS_1	427.00>407.00	427.00>80.90	6511	1757	26.99	29.95	14.97-44.92	
6_2-FTS-13C	428.90>409.00	----	502150	----	----	----	0-0	
6_2-FTS-13C_IS	428.90>409.00	----	502150	----	----	----	0-0	
8_2-FTS_1	527.10>506.90	527.20>487.00	3350	270	8.06	9.42	4.71-14.13	
8_2-FTS-13C	528.80>509.00	----	258036	----	----	----	0-0	
8_2-FTS-13C_IS	528.80>509.00	----	258036	----	----	----	0-0	
10_2-FtS_1	627.00>606.95	627.00>81.25	1989	1142	57.42	49.86	24.93-74.78	
HPFO_DA	329.00>169.00	329.00>285.10	5457	5136	94.12	101.52	50.76 -152.28	
HFPO_DA-13C	332.00>286.80	----	603111	----	----	----		
HFPO_DA-13C_IS	332.00>286.80	----	603111	----	----	----		

Flag ID key: AC: Accuracy%, IRr: Ion Ratio (Relative), SN: S/N

Comment 1 field specifies acceptance range for Ref 1 ratio.
IRr - Ion ratio outside criteria. Exceedances for results above the MDL to be "K" flagged in the analytical report.

Insight Report
Quantitation/Integration
Printed 8/20/2021 11:13:44

210819_020

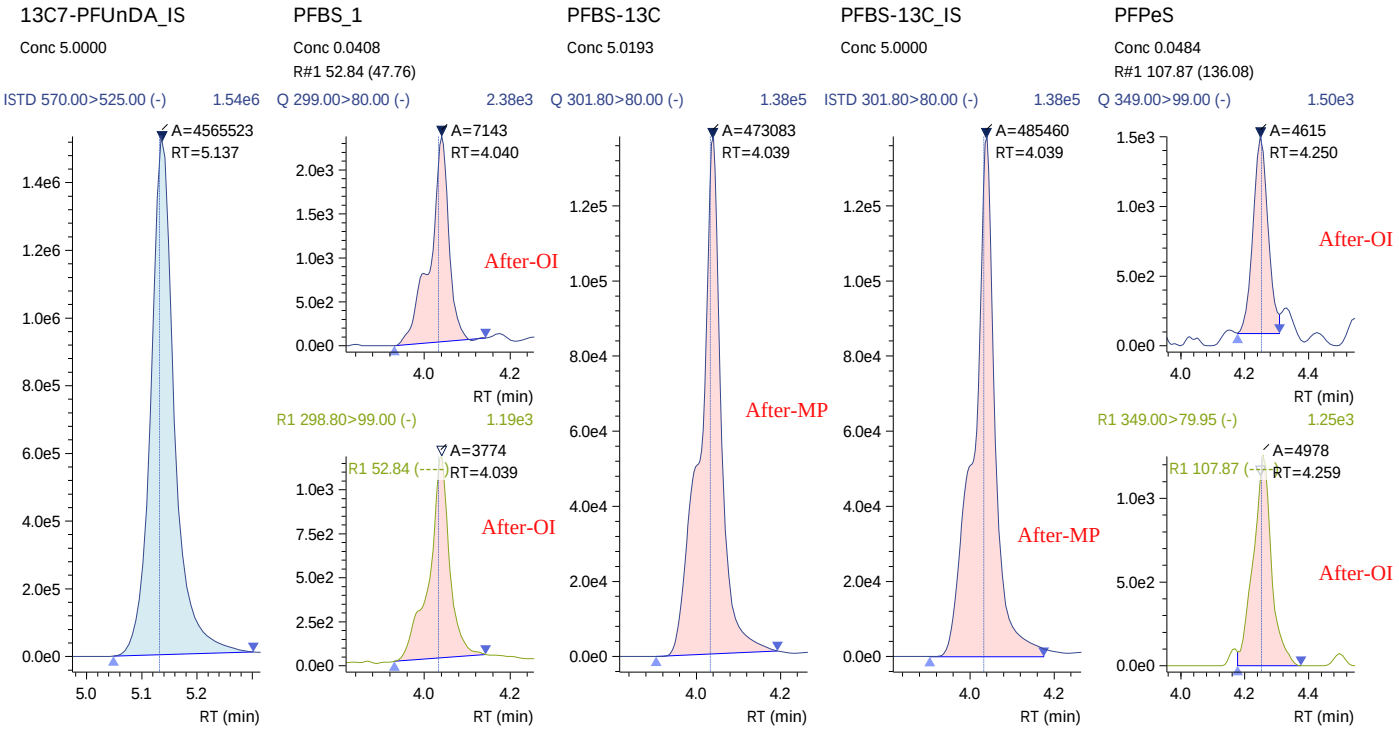
Sample ID: PFC ICAL @ 0.05ppb
Date Acquired: 8/19/2021 6:39:24 PM
Acquired by: System Administrator
Data File: 210819_020
Vial: 1 | Inj. Volume: 15.0000uL | Tray: 0

Name	Mode ID	Found RT	Area	ISTD Area	ISTD Name	Std. Conc.	Conc.	Unit
13C7-PFUnDA_IS	Auto	5.137	4565523	4565523	----	5.0000	5.0000	ng/mL
PFBS_1	M	4.040	7143	485460	PFBS-13C_IS	0.0444	0.0408	ng/mL
PFBS-13C	M	4.039	473083	4565523	13C7-PFUnDA_IS	5.0000	5.0193	ng/mL
PFBS-13C_IS	M	4.039	485460	485460	----	5.0000	5.0000	ng/mL
PFPeS	M	4.250	4615	485460	PFBS-13C_IS	0.0470	0.0484	ng/mL
PFHxS_1	Auto	4.423	8408	331643	PFHxS-18O_IS	0.0457	0.0548	ng/mL
PFHxS-18O	Auto	4.425	331643	4565523	13C7-PFUnDA_IS	5.0000	5.1604	ng/mL
PFHxS-18O_IS	Auto	4.425	331643	331643	----	5.0000	5.0000	ng/mL
PFHpS_1	M	4.585	7955	331643	PFHxS-18O_IS	0.0477	0.0572	ng/mL
PFOS_1	MI R1	4.757	4270	396559	PFOS-13C_IS	0.0465	0.0572	ng/mL
PFOS-13C	Auto	4.757	396559	4565523	13C7-PFUnDA_IS	5.0000	4.9649	ng/mL
PFOS-13C_IS	Auto	4.757	396559	396559	----	5.0000	5.0000	ng/mL
PFNS	M	4.933	3426	396559	PFOS-13C_IS	0.0481	0.0508	ng/mL
PFDS_1	M	5.112	5375	396559	PFOS-13C_IS	0.0482	0.0555	ng/mL
PFBA	M	3.432	11016	1913636	PFBA-13C_IS	0.0500	0.0443	ng/mL
PFBA-13C	Auto	3.431	1913636	4565523	13C7-PFUnDA_IS	5.0000	5.1319	ng/mL
PFBA-13C_IS	Auto	3.431	1913636	1913636	----	5.0000	5.0000	ng/mL
PFPeA	Auto	3.983	52137	1271925	PFPeA-13C_IS	0.0500	0.0645	ng/mL
PFPeA-13C	Auto	3.984	1271925	4565523	13C7-PFUnDA_IS	5.0000	5.1759	ng/mL
PFPeA-13C_IS	Auto	3.984	1271925	1271925	----	5.0000	5.0000	ng/mL
PFHxA	Auto	4.242	47656	3449070	PFHxA-13C_IS	0.0500	0.0510	ng/mL
PFHxA-13C	Auto	4.241	3449070	4565523	13C7-PFUnDA_IS	5.0000	5.0976	ng/mL
PFHxA-13C_IS	Auto	4.241	3449070	3449070	----	5.0000	5.0000	ng/mL
PFHpA	M	4.424	39379	3559387	PFHpA-13C_IS	0.0500	0.0509	ng/mL
PFHpA-13C	Auto	4.424	3559387	4565523	13C7-PFUnDA_IS	5.0000	5.1814	ng/mL
PFHpA-13C_IS	Auto	4.424	3559387	3559387	----	5.0000	5.0000	ng/mL
PFOA	Auto	4.591	77222	3913312	PFOA-13C_IS	0.0500	0.0642	ng/mL
PFOA-13C	Auto	4.593	3913312	4565523	13C7-PFUnDA_IS	5.0000	5.1171	ng/mL
PFOA-13C_IS	Auto	4.593	3913312	3913312	----	5.0000	5.0000	ng/mL
PFNA	Auto	4.770	35413	2983263	PFNA-13C_IS	0.0500	0.0481	ng/mL
PFNA-13C	Auto	4.768	2983263	4565523	13C7-PFUnDA_IS	5.0000	5.1139	ng/mL
PFNA-13C_IS	Auto	4.768	2983263	2983263	----	5.0000	5.0000	ng/mL
PFDA	Auto	4.951	33845	2186074	PFDA-13C_IS	0.0500	0.0518	ng/mL
PFDA-13C	Auto	4.953	2186074	4565523	13C7-PFUnDA_IS	5.0000	5.0700	ng/mL
PFDA-13C_IS	Auto	4.953	2186074	2186074	----	5.0000	5.0000	ng/mL
PFUnA	Auto	5.139	31203	2833735	PFUnA-13C_IS	0.0500	0.0461	ng/mL
PFUnA-13C	Auto	5.137	2833735	4565523	13C7-PFUnDA_IS	5.0000	4.9327	ng/mL
PFUnA-13C_IS	Auto	5.137	2833735	2833735	----	5.0000	5.0000	ng/mL
PFDoA	M	5.319	32709	3072694	PFDoA-13C_IS	0.0500	0.0547	ng/mL
PFDoA-13C	Auto	5.315	3072694	4565523	13C7-PFUnDA_IS	5.0000	4.8827	ng/mL
PFDoA-13C_IS	Auto	5.315	3072694	3072694	----	5.0000	5.0000	ng/mL
PFTrDA	Auto	5.478	36024	2105534	PFTeDA-13C_IS	0.0500	0.0576	ng/mL
PFTeDA	M	5.637	25554	2105534	PFTeDA-13C_IS	0.0500	0.0540	ng/mL
PFTeDA-13C	Auto	5.636	2105534	4565523	13C7-PFUnDA_IS	5.0000	4.9441	ng/mL
PFTeDA-13C_IS	Auto	5.636	2105534	2105534	----	5.0000	5.0000	ng/mL
FOSA	M	5.236	15692	1336324	FOSA-13C_IS	0.0500	0.0462	ng/mL
FOSA-13C	Auto	5.236	1336324	4565523	13C7-PFUnDA_IS	5.0000	4.9274	ng/mL
FOSA-13C_IS	Auto	5.236	1336324	1336324	----	5.0000	5.0000	ng/mL
N-MeFOSA	M	5.627	6496	320819	N-MeFOSA-d3_IS	0.0500	0.0541	ng/mL
N-MeFOSA-d3	Auto	5.626	320819	4565523	13C7-PFUnDA_IS	5.0000	5.0876	ng/mL
N-MeFOSA-d3_IS	Auto	5.626	320819	320819	----	5.0000	5.0000	ng/mL
N-EtFOSA	M	5.761	1226	370819	N-EtFOSA-d9_IS	0.0500	0.0528	ng/mL
N-EtFOSA-d9	Auto	5.760	370819	4565523	13C7-PFUnDA_IS	5.0000	5.1755	ng/mL
N-EtFOSA-d9_IS	Auto	5.760	370819	370819	----	5.0000	5.0000	ng/mL

210819_020 (continued)

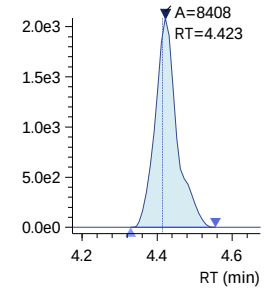
(Table continued from previous page)

Name	Mode ID	Found RT	Area	ISTD Area	ISTD Name	Std. Conc.	Conc.	Unit
N-MeFOSE	M	5.608	6591	311862	N-MeFOSE-d7_IS	0.0500	0.0483	ng/mL
N-MeFOSE-d7	Auto	5.600	311862	4565523	13C7-PFUnDA_IS	5.0000	4.9454	ng/mL
N-MeFOSE-d7_IS	Auto	5.600	311862	311862	----	5.0000	5.0000	ng/mL
N-EtFOSE	M	5.738	6952	335726	N-EtFOSE-d9_IS	0.0500	0.0453	ng/mL
N-EtFOSE-d9	Auto	5.730	335726	4565523	13C7-PFUnDA_IS	5.0000	5.1423	ng/mL
N-EtFOSE-d9_IS	Auto	5.730	335726	335726	----	5.0000	5.0000	ng/mL
N-MeFOSAA	Auto	5.055	2853	260406	N-MeFOSAA-d3_IS	0.0500	0.1058	ng/mL
N-MeFOSAA-d3	Auto	5.050	260406	4565523	13C7-PFUnDA_IS	5.0000	5.0632	ng/mL
N-MeFOSAA-d3_IS	Auto	5.050	260406	260406	----	5.0000	5.0000	ng/mL
N-EtFOSAA	Auto	5.140	586	249466	N-EtFOSAA-d5_IS	0.0500	0.0428	ng/mL
N-EtFOSAA-d5	Auto	5.148	249466	4565523	13C7-PFUnDA_IS	5.0000	5.2103	ng/mL
N-EtFOSAA-d5_IS	Auto	5.148	249466	249466	----	5.0000	5.0000	ng/mL
4_2-FTS_1	Auto	4.212	5453	538134	4_2-FTS-13C_IS	0.0469	0.0506	ng/mL
4_2-FTS-13C	Auto	4.217	538134	4565523	13C7-PFUnDA_IS	5.0000	5.1291	ng/mL
4_2-FTS-13C_IS	Auto	4.217	538134	538134	----	5.0000	5.0000	ng/mL
6_2-FTS_1	MI R1	4.583	6511	502150	6_2-FTS-13C_IS	0.0476	0.0466	ng/mL
6_2-FTS-13C	Auto	4.582	502150	4565523	13C7-PFUnDA_IS	5.0000	5.0663	ng/mL
6_2-FTS-13C_IS	Auto	4.582	502150	502150	----	5.0000	5.0000	ng/mL
8_2-FTS_1	Auto	4.952	3350	258036	8_2-FTS-13C_IS	0.0480	0.0558	ng/mL
8_2-FTS-13C	Auto	4.951	258036	4565523	13C7-PFUnDA_IS	5.0000	4.8912	ng/mL
8_2-FTS-13C_IS	Auto	4.951	258036	258036	----	5.0000	5.0000	ng/mL
10_2-FtS_1	Auto	5.321	1989	258036	8_2-FTS-13C_IS	0.0483	0.0479	ng/mL
HFPO_DA	M	4.309	5457	603111	HFPO_DA-13C_IS	0.0500	0.0497	ng/mL
HFPO_DA-13C	Auto	4.309	603111	4565523	13C7-PFUnDA_IS	5.0000	5.1126	ng/mL
HFPO_DA-13C_IS	Auto	4.309	603111	603111	----	5.0000	5.0000	ng/mL

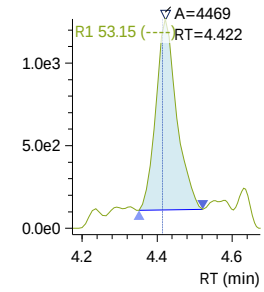


210819_020 (continued)

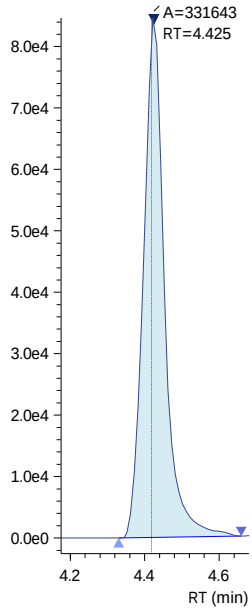
PFHxS_1
Conc 0.0548
R#1 53.15 (71.26)
Q 399.00>80.00 (-) 2.09e3



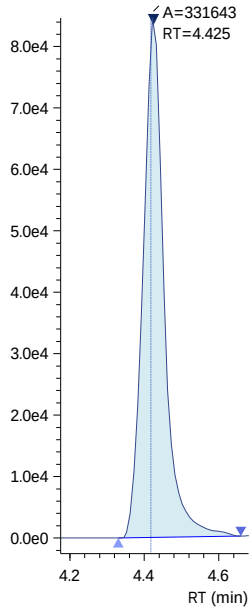
R1 399.00>99.00 (-) 1.27e3



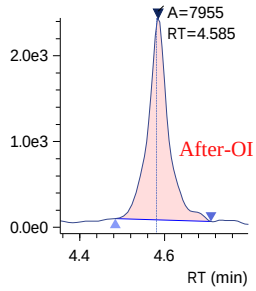
PFHxS-18O
Conc 5.1604
Q 402.70>84.05 (-) 8.47e4



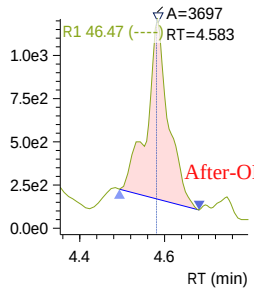
PFHxS-18O_IS
Conc 5.0000
ISTD 402.70>84.05 (-) 8.47e4



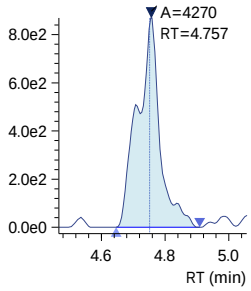
PFHpS_1
Conc 0.0572
R#1 46.47 (53.84)
Q 449.00>80.15 (-) 2.44e3



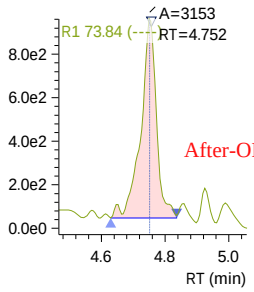
R1 449.00>99.20 (-) 1.21e3



PFOS_1
Conc 0.0572
R#1 73.84 (86.72)
Q 499.00>80.00 (-) 8.69e2



R1 499.00>99.00 (-) 9.62e2



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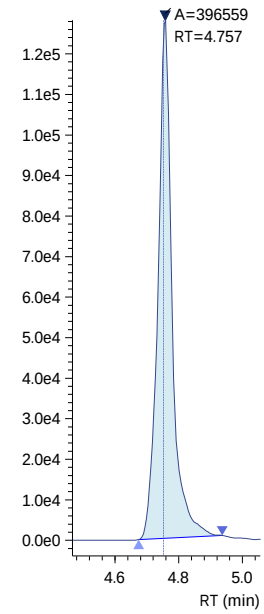
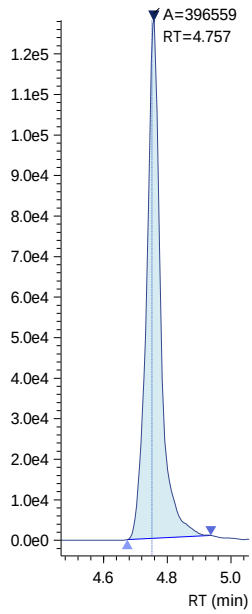
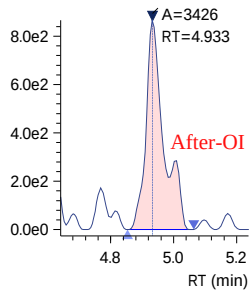
Conc 4.9649
Q 502.80>80.05 (-) 1.28e5



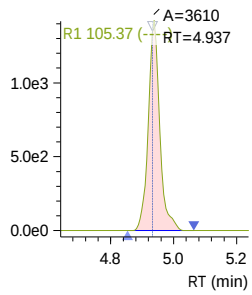
PFOS-13C_IS
Conc 5.0000
ISTD 502.80>80.05 (-) 1.28e5



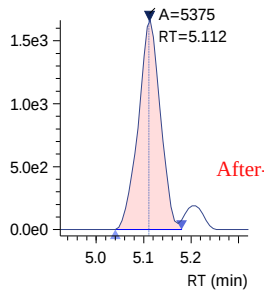
PFNS
Conc 0.0508
R#1 105.37 (129.18)
Q 549.00>99.00 (-) 8.66e2



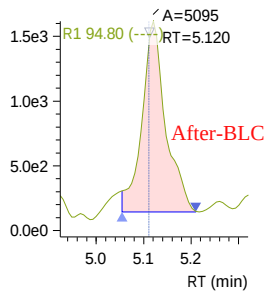
R1 549.00>79.95 (-) 1.42e3



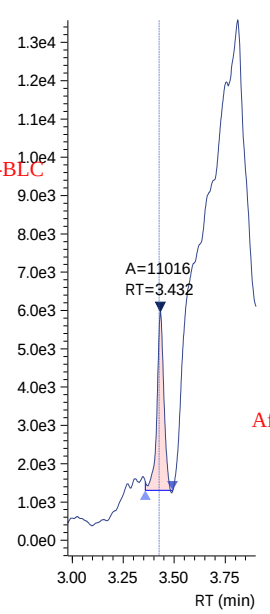
PFDS_1
Conc 0.0555
R#1 94.80 (90.77)
Q 599.00>79.90 (-) 1.66e3



R1 599.00>99.10 (-) 1.62e3

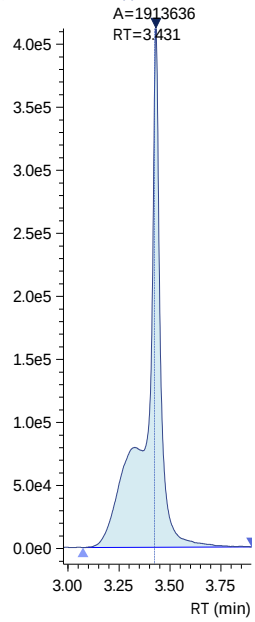


PFBA
Conc 0.0443
Q 213.00>169.10 (-) 1.36e4

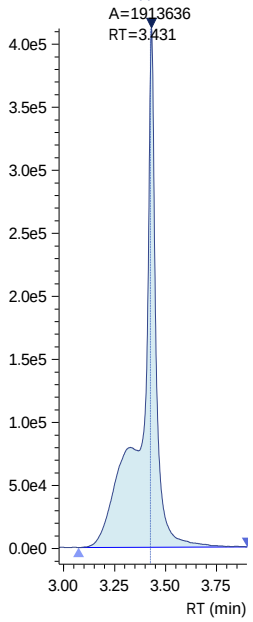


210819_020 (continued)

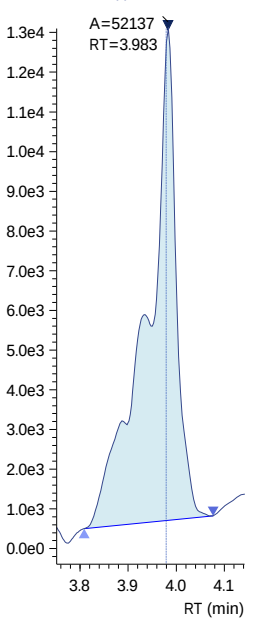
PFBA-13C
Conc 5.1319
Q 216.90>172.15 (-) 4.13e5



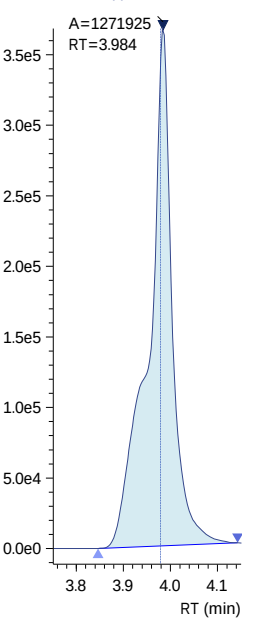
PFBA-13C_IS
Conc 5.0000
ISTD 216.90>172.15 (-) 4.13e5



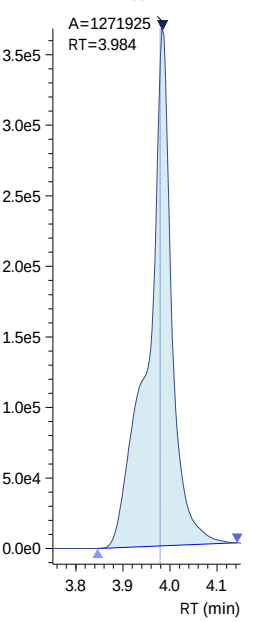
PFPeA
Conc 0.0645
Q 263.05>219.10 (-) 1.31e4



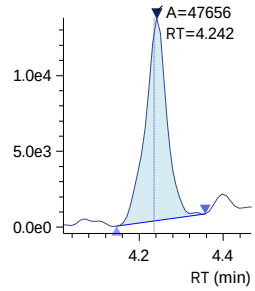
PFPeA-13C
Conc 5.1759
Q 267.90>223.00 (-) 3.69e5



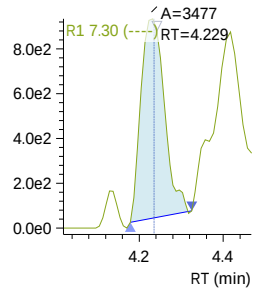
PFPeA-13C_IS
Conc 5.0000
ISTD 267.90>223.00 (-) 3.69e5



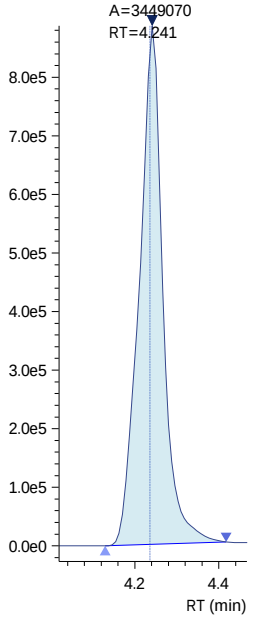
PFHxA
Conc 0.0510
R#1 7.30 (4.17)
Q 313.00>269.00 (-) 1.38e4



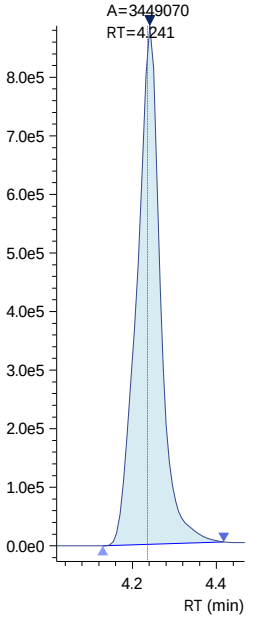
R1 313.00>119.10 (-) 9.34e2



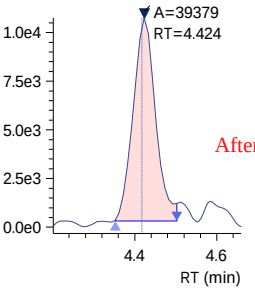
PFHxA-13C
Conc 5.0976
Q 314.90>270.10 (-) 8.88e5



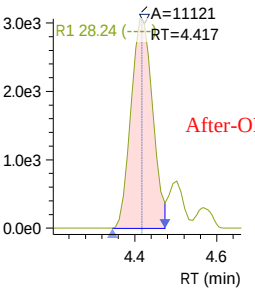
PFHxA-13C_IS
Conc 5.0000
ISTD 314.90>270.10 (-) 8.88e5



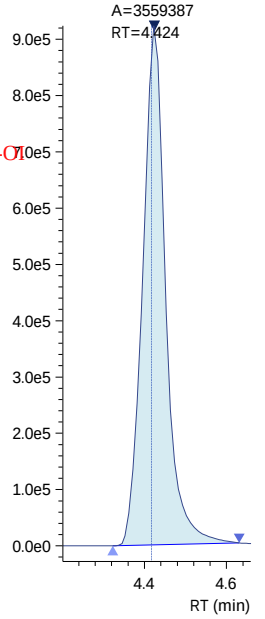
PFHpA
Conc 0.0509
R#1 28.24 (26.04)
Q 362.90>319.00 (-) 1.08e4



R1 362.90>169.00 (-) 3.06e3

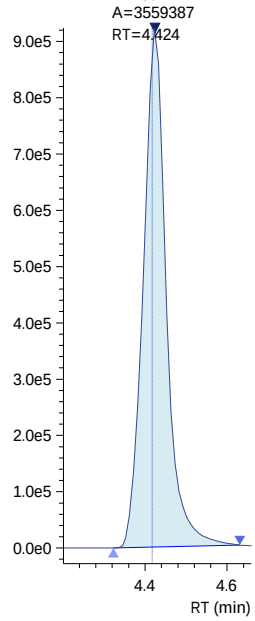


PFHpA-13C
Conc 5.1814
Q 366.90>322.10 (-) 9.24e5

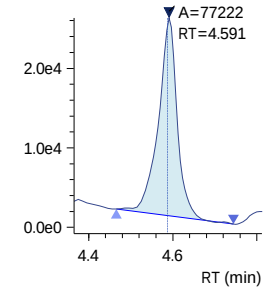


210819_020 (continued)

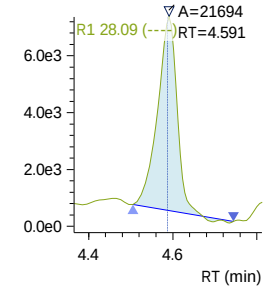
PFHpA-13C_IS
Conc 5.0000
ISTD 366.90>322.10 (-) 9.24e5



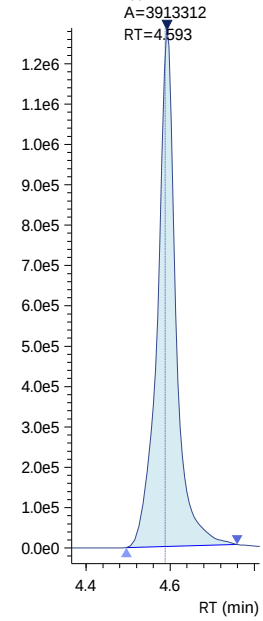
PFOA
Conc 0.0642
R#1 28.09 (30.35)
Q 413.00>369.00 (-) 2.63e4



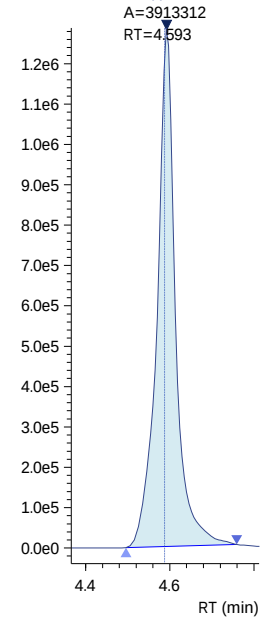
R1 413.00>169.10 (-) 7.37e3



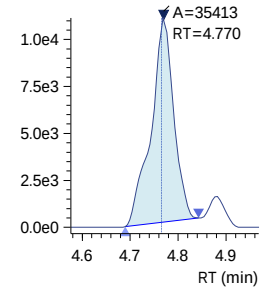
PFOA-13C
Conc 5.1171
Q 416.80>372.05 (-) 1.29e6



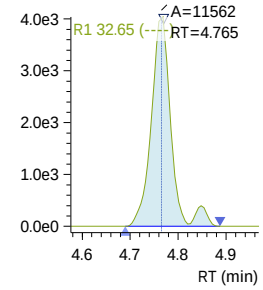
PFOA-13C_IS
Conc 5.0000
ISTD 416.80>372.05 (-) 1.29e6



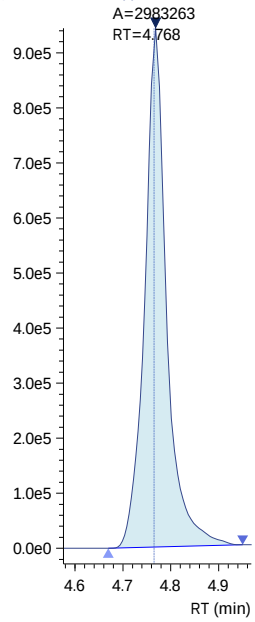
PFNA
Conc 0.0481
R#1 32.65 (22.35)
Q 463.00>418.90 (-) 1.11e4



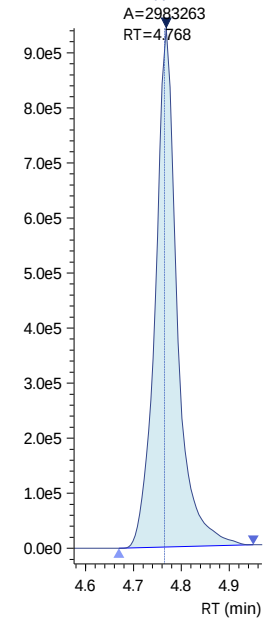
R1 463.00>219.00 (-) 4.04e3



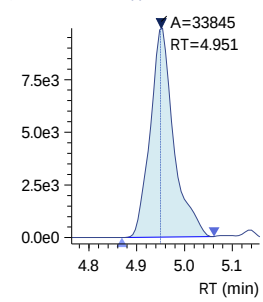
PFNA-13C
Conc 5.1139
Q 467.80>423.00 (-) 9.45e5



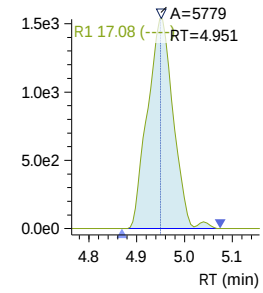
PFNA-13C_IS
Conc 5.0000
ISTD 467.80>423.00 (-) 9.45e5



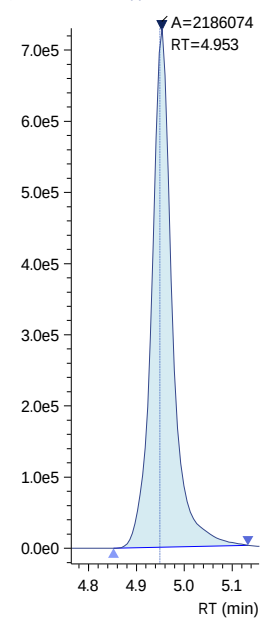
PFDA
Conc 0.0518
R#1 17.08 (18.73)
Q 513.00>468.80 (-) 9.94e3



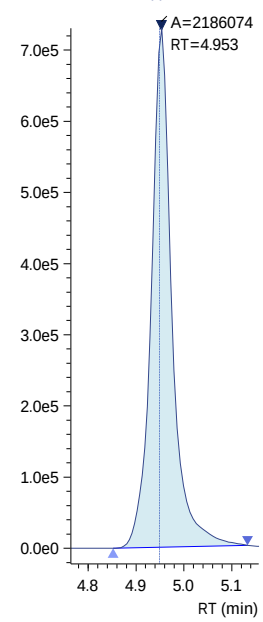
R1 513.00>219.10 (-) 1.53e3



PFDA-13C
Conc 5.0700
Q 514.80>469.95 (-) 7.31e5

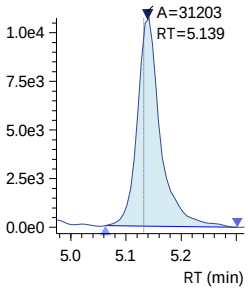


PFDA-13C_IS
Conc 5.0000
ISTD 514.80>469.95 (-) 7.31e5

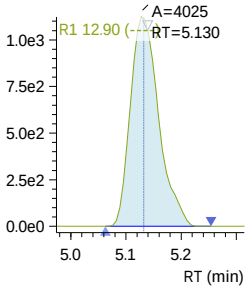


210819_020 (continued)

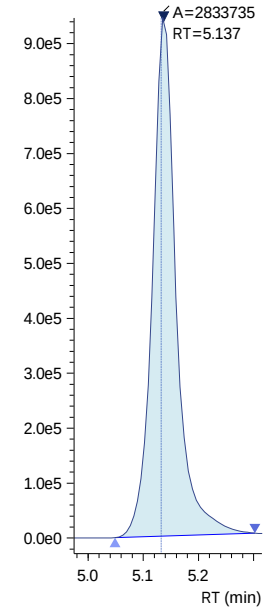
PFUnA
Conc 0.0461
R#1 12.90 (11.60)
Q 563.00>518.90 (-) 1.08e4



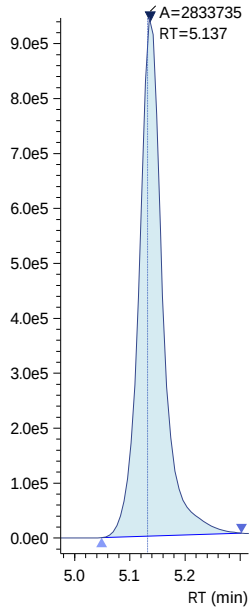
R1 563.00>219.00 (-) 1.12e3



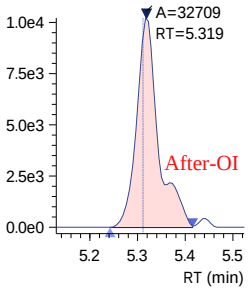
PFUnA-13C
Conc 4.9327



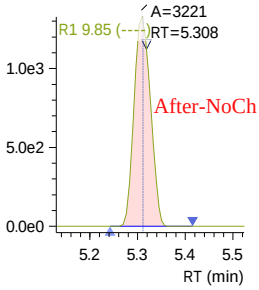
PFUnA-13C_IS
Conc 5.0000
ISTD 564.80>519.95 (-) 9.47e5



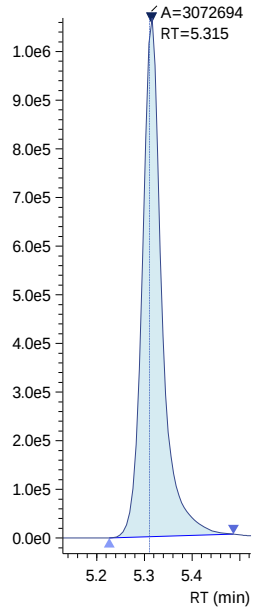
PFDoA
Conc 0.0547
R#1 9.85 (15.11)
Q 613.05>569.00 (-) 1.02e4



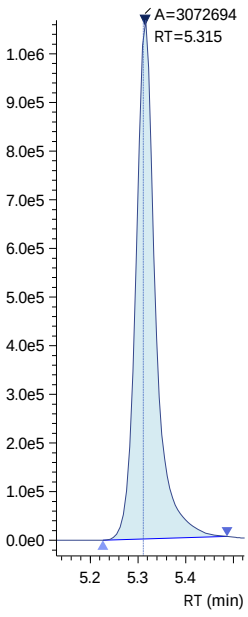
R1 613.05>169.00 (-) 1.33e3



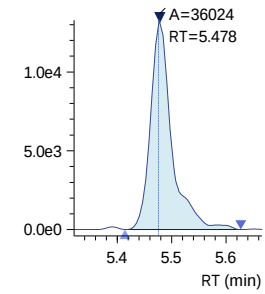
PFDoA-13C
Conc 4.8827
Q 614.80>569.95 (-) 1.07e6



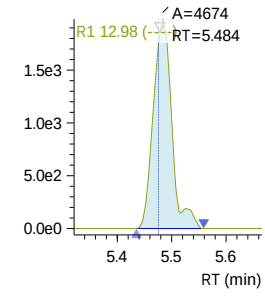
PFDoA-13C_IS
Conc 5.0000
ISTD 614.80>569.95 (-) 1.07e6



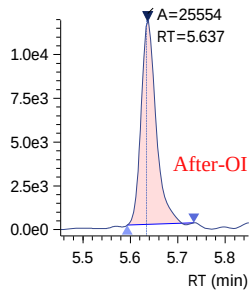
PFTrDA
Conc 0.0576
R#1 12.98 (14.19)
Q 663.00>618.90 (-) 1.33e4



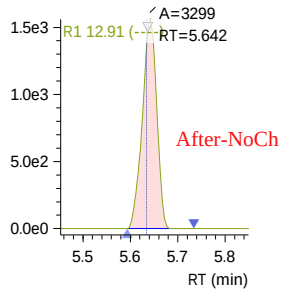
R1 662.90>169.00 (-) 1.98e3



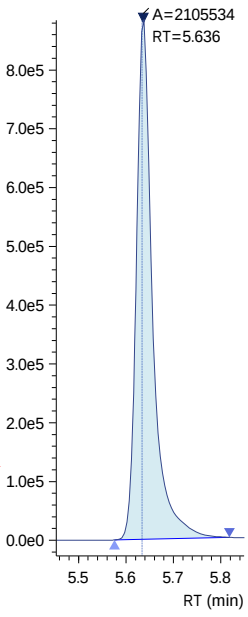
PFTeDA
Conc 0.0540
R#1 12.91 (14.98)
Q 713.00>669.00 (-) 1.20e4



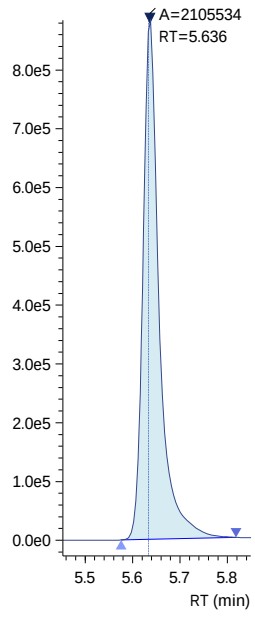
R1 713.00>169.10 (-) 1.56e3



PFTeDA-13C
Conc 4.9441
Q 714.70>669.90 (-) 8.85e5

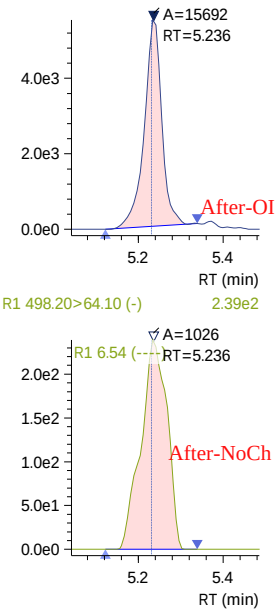


PFTeDA-13C_IS
Conc 5.0000
ISTD 714.70>669.90 (-) 8.85e5

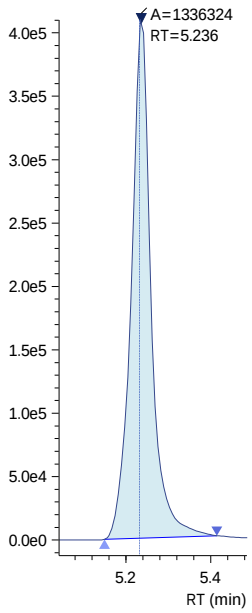


210819_020 (continued)

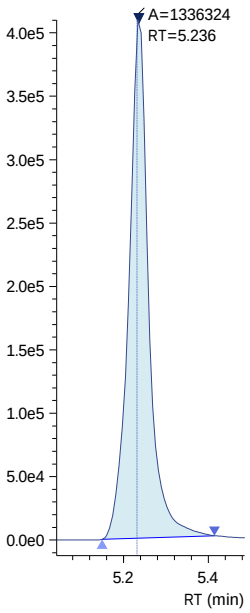
FOSA
Conc 0.0462
R#1 6.54 (4.89)
Q 498.20>78.00 (-) 5.55e3
R1 498.20>64.10 (-) 2.39e2



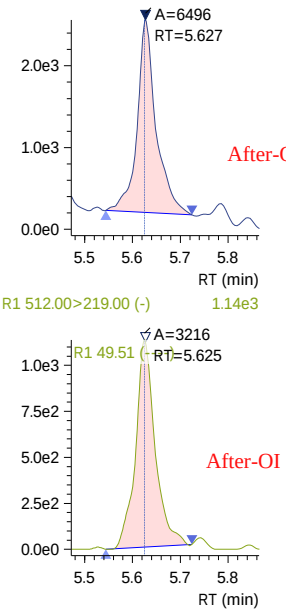
FOSA-13C
Conc 4.9274
Q 506.00>78.05 (-) 4.10e5



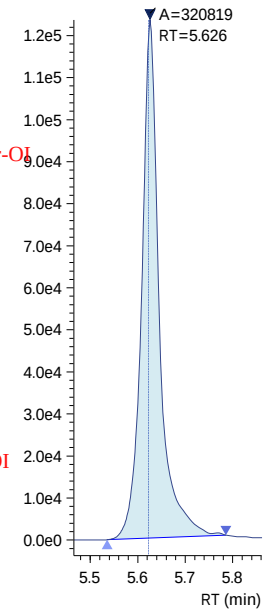
FOSA-13C_IS
Conc 5.0000
ISTD 506.00>78.05 (-) 4.10e5



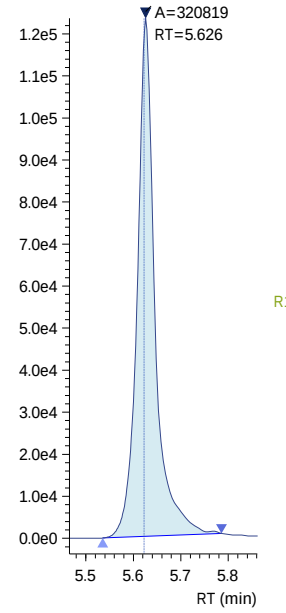
N-MeFOSA
Conc 0.0541
R#1 49.51 (62.72)
Q 512.00>169.10 (-) 2.56e3
R1 512.00>219.00 (-) 1.14e3



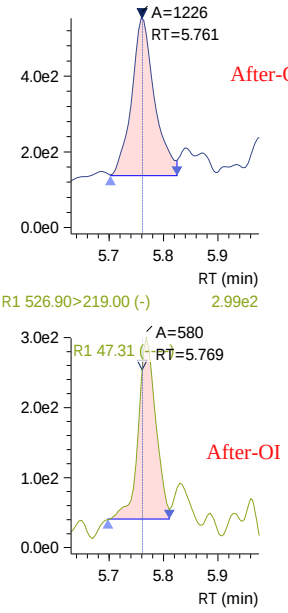
N-MeFOSA-d3
Conc 5.0876
Q 514.90>168.90 (-) 1.24e5



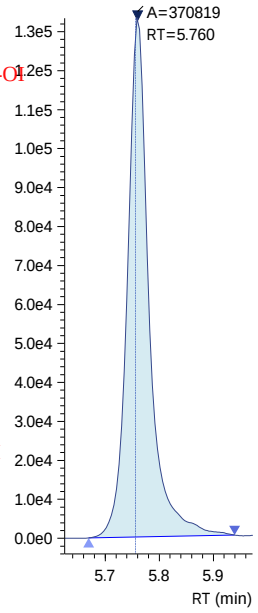
N-MeFOSA-d3_IS
Conc 5.0000
ISTD 514.90>168.90 (-) 1.24e5



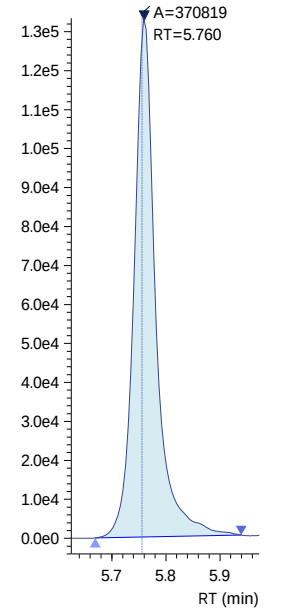
N-EtFOSA
Conc 0.0528
R#1 47.31 (63.35)
Q 526.90>169.10 (-) 5.53e2
R1 526.90>219.00 (-) 2.99e2



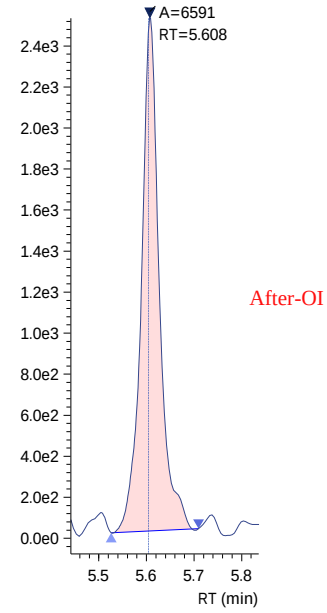
N-EtFOSA-d9
Conc 5.1755
Q 530.90>169.15 (-) 1.33e5



N-EtFOSA-d9_IS
Conc 5.0000
ISTD 530.90>169.15 (-) 1.33e5

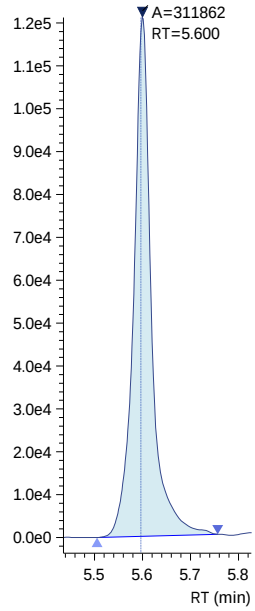


N-MeFOSE
Conc 0.0483
Q 616.00>59.00 (-) 2.54e3

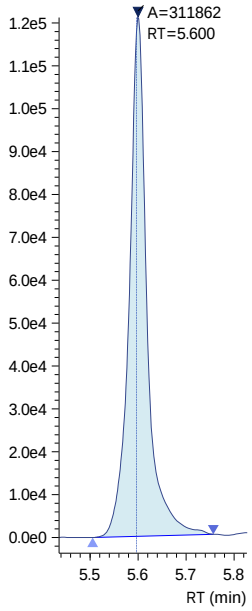


210819_020 (continued)

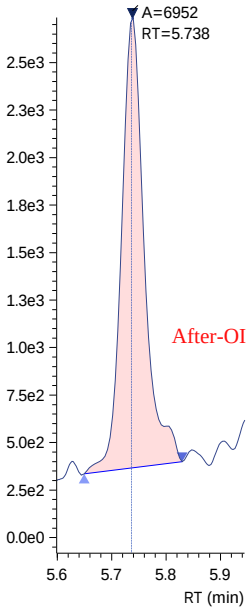
N-MeFOSE-d7
Conc 4.9454
Q 622.70>59.10 (-) 1.21e5



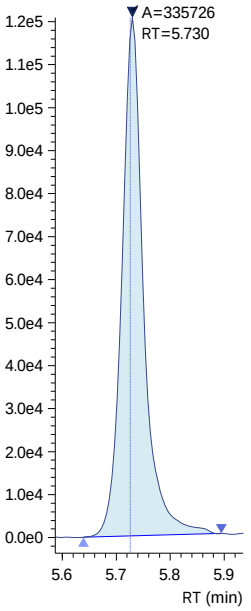
N-MeFOSE-d7_IS
Conc 5.0000
ISTD 622.70>59.10 (-) 1.21e5



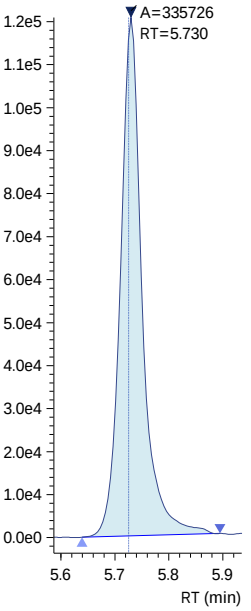
N-EtFOSE
Conc 0.0453
Q 630.00>58.90 (-) 2.74e3



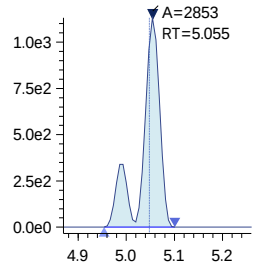
N-EtFOSE-d9
Conc 5.1423
Q 638.70>59.10 (-) 1.21e5



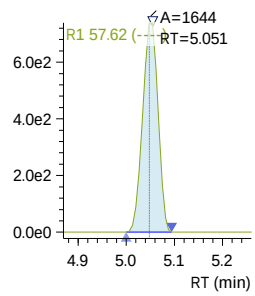
N-EtFOSE-d9_IS
Conc 5.0000
ISTD 638.70>59.10 (-) 1.21e5



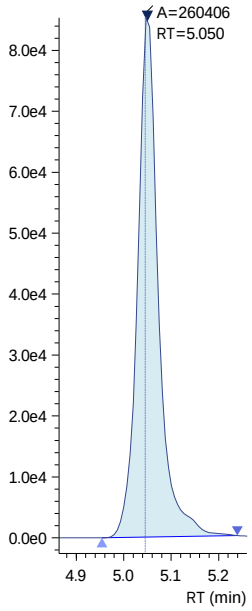
N-MeFOSAA
Conc 0.1058
R#1 57.62 (35.26)
Q 570.20>419.00 (-) 1.13e3



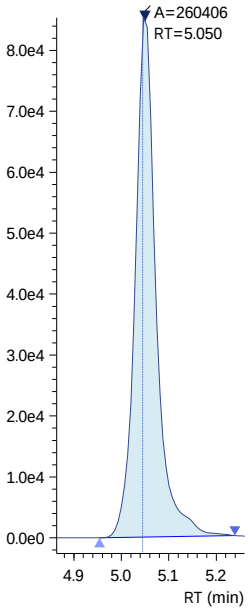
R1 570.20>512.00 (-) 7.39e2



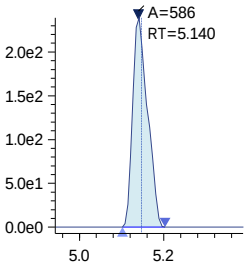
N-MeFOSAA-d3
Conc 5.0632
Q 572.80>419.05 (-) 8.53e4



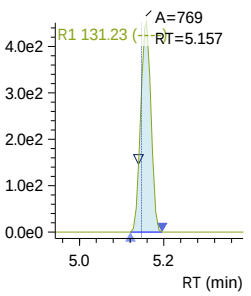
N-MeFOSAA-d3_IS
Conc 5.0000
ISTD 572.80>419.05 (-) 8.53e4



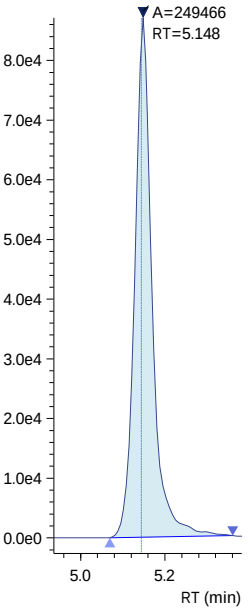
N-EtFOSAA
Conc 0.0428
R#1 131.23 (77.25)
Q 584.20>418.95 (-) 2.39e2



R1 584.20>526.10 (-) 4.51e2

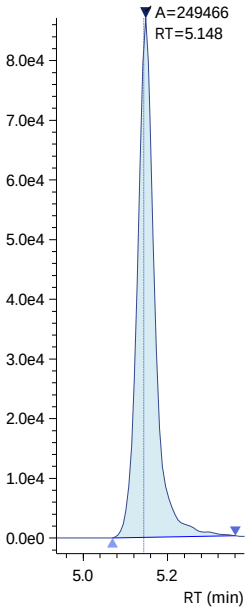


N-EtFOSAA-d5
Conc 5.2103
Q 588.80>419.00 (-) 8.71e4

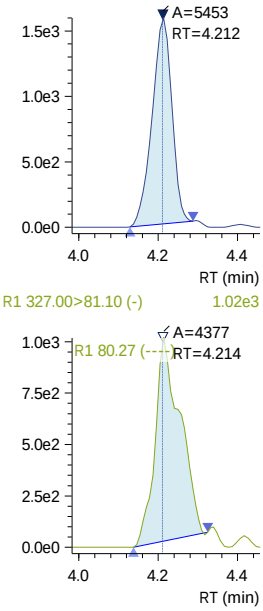


210819_020 (continued)

N-EtFOSAA-d5_IS
Conc 5.0000
ISTD 588.80>419.00 (-) 8.71e4

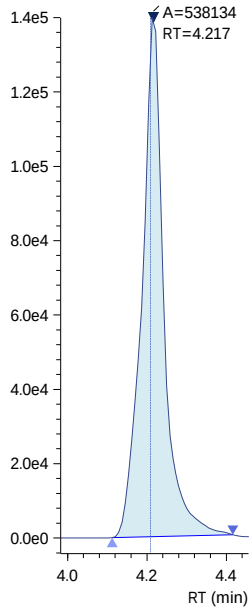


4_2-FTS_1
Conc 0.0506
R#1 80.27 (39.85)
Q 327.00>307.05 (-) 1.60e3

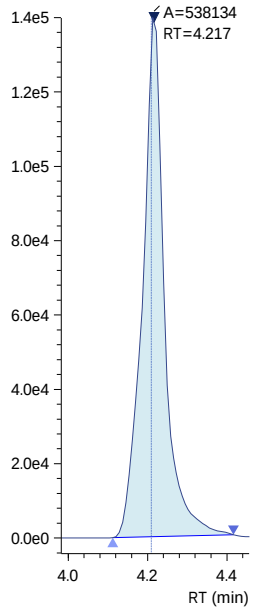


R1 327.00>81.10 (-) 1.02e3

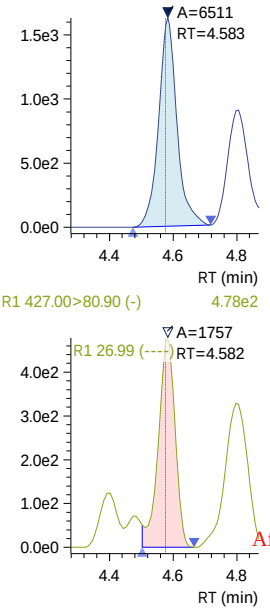
4_2-FTS-13C
Conc 5.1291
Q 328.80>309.05 (-) 1.40e5



4_2-FTS-13C_IS
Conc 5.0000
ISTD 328.80>309.05 (-) 1.40e5



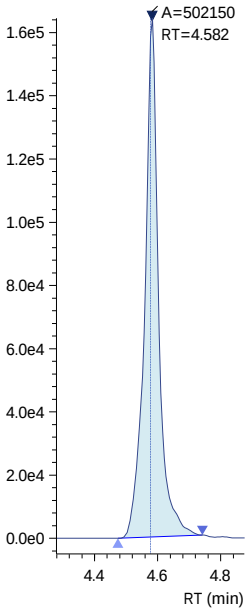
6_2-FTS_1
Conc 0.0466
R#1 26.99 (29.95)
Q 427.00>407.00 (-) 1.63e3



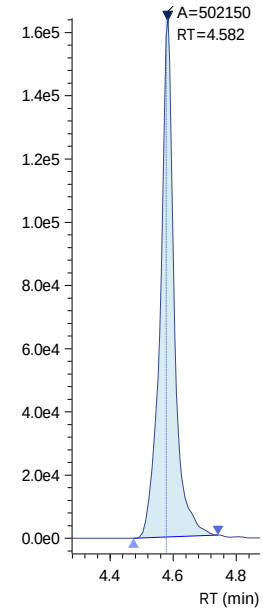
R1 427.00>80.90 (-) 4.78e2

After-OI

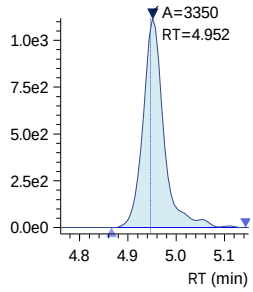
6_2-FTS-13C
Conc 5.0663
Q 428.90>409.00 (-) 1.65e5



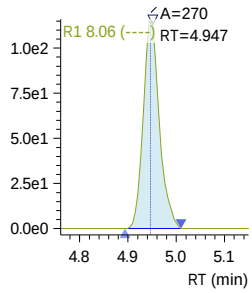
6_2-FTS-13C_IS
Conc 5.0000
ISTD 428.90>409.00 (-) 1.65e5



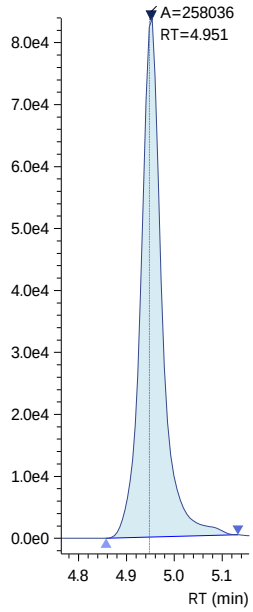
8_2-FTS_1
Conc 0.0558
R#1 8.06 (9.42)
Q 527.10>506.90 (-) 1.12e3



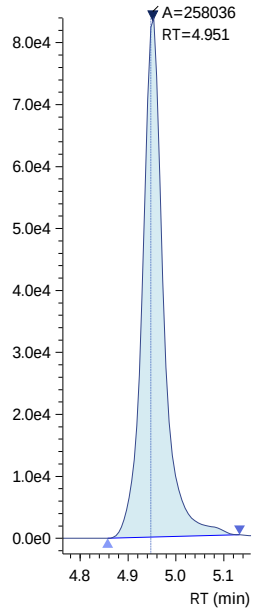
R1 527.20>487.00 (-) 1.16e2



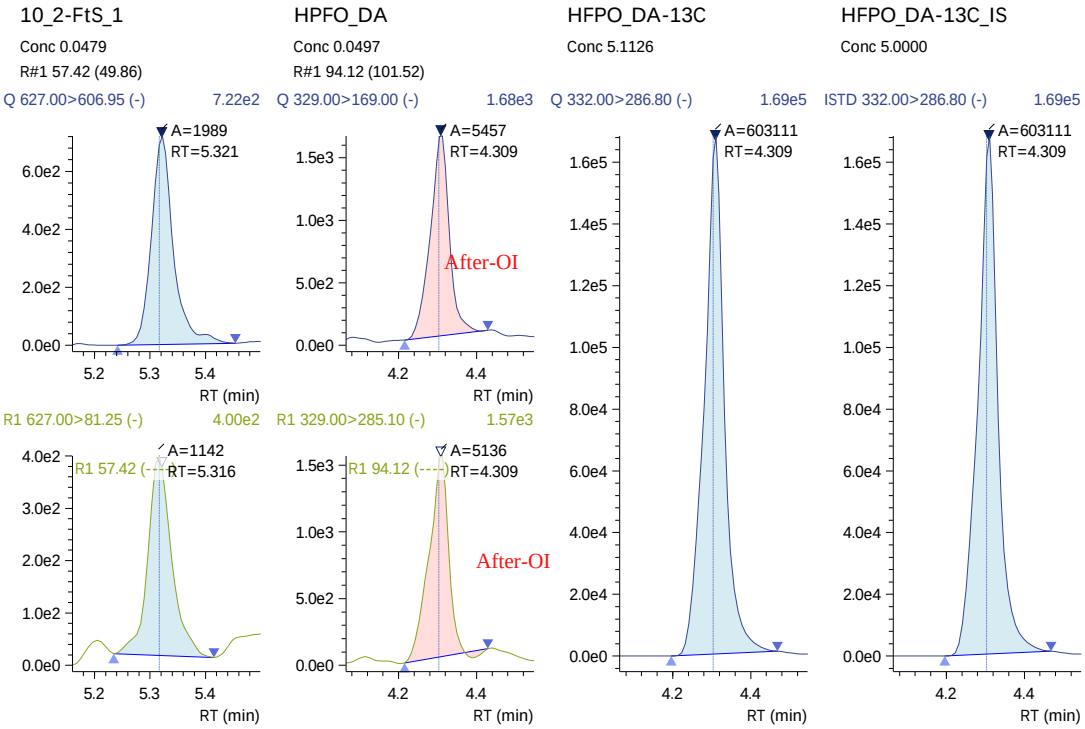
8_2-FTS-13C
Conc 4.8912
Q 528.80>509.00 (-) 8.39e4



8_2-FTS-13C_IS
Conc 5.0000
ISTD 528.80>509.00 (-) 8.39e4



210819_020 (continued)

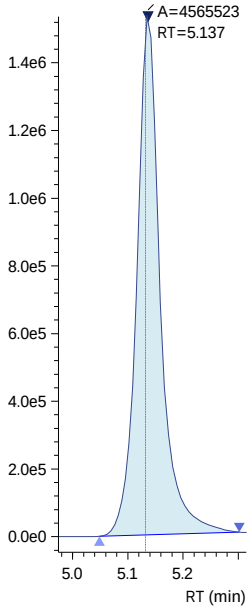


Insight Report
Before Manual Integration
Printed 8/20/2021 09:47:37

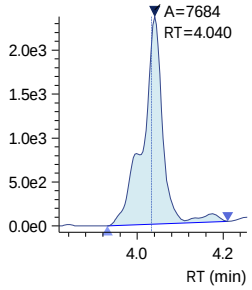
210819_020

Sample ID: PFC ICAL @ 0.05ppb
Date Acquired: 8/19/2021 6:39:24 PM
Acquired by: System Administrator
Data File: 210819_020
Vial: 1 | Inj. Volume: 15.0000uL | Tray: 0

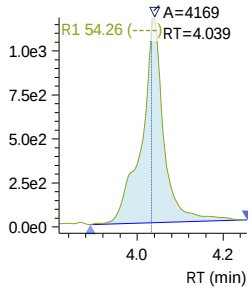
13C7-PFUnDA_IS
Conc 5.0000
ISTD 570.00>525.00 (-) 1.54e6



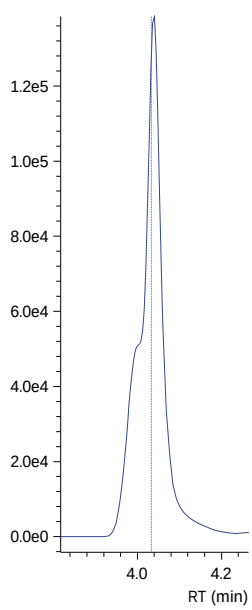
PFBS_1
Conc 0.0000
R#1 54.26 (48.11)
Q 299.00>80.00 (-) 2.38e3



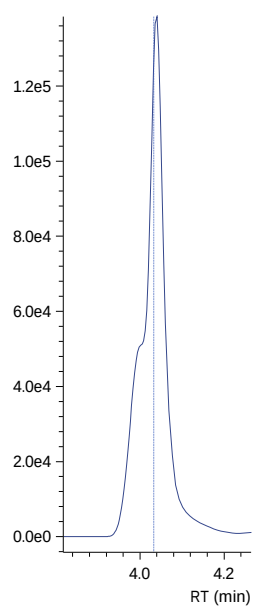
R1 298.80>99.00 (-) 1.19e3



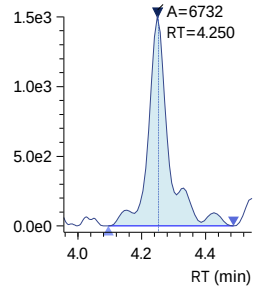
PFBS-13C
Conc ----
Q 301.80>80.00 (-) 1.38e5



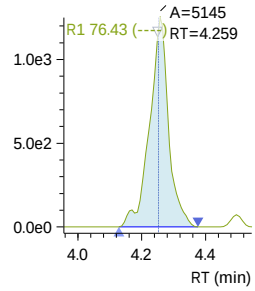
PFBS-13C_IS
Conc ----
ISTD 301.80>80.00 (-) 1.38e5



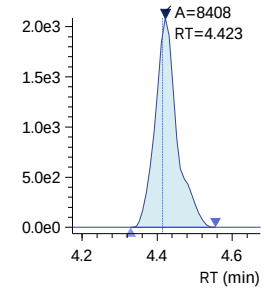
PFPeS
Conc 0.0000
R#1 76.43 (149.27)
Q 349.00>99.00 (-) 1.50e3

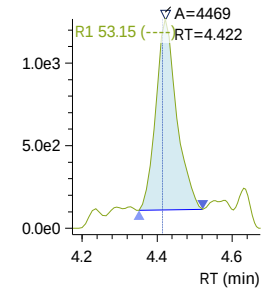


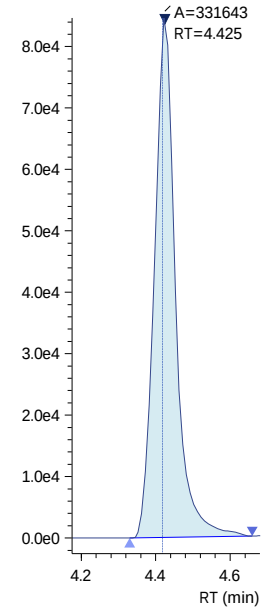
R1 349.00>79.95 (-) 1.25e3

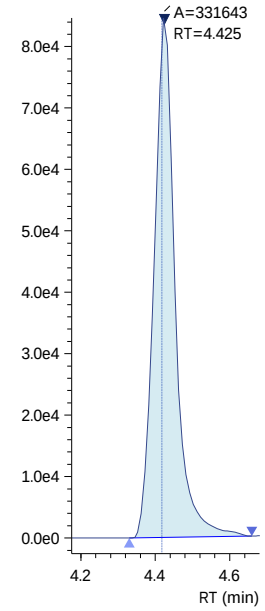


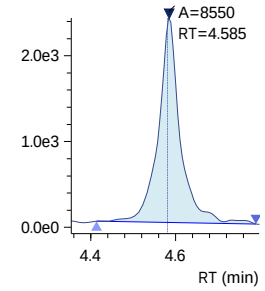
210819_020 (continued)

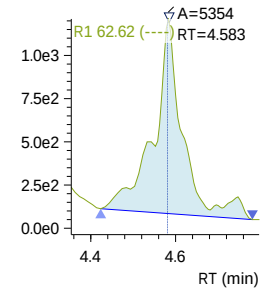
PFHxS_1
Conc 0.0686
R#1 53.15 (83.10)
Q 399.00>80.00 (-) 2.09e3


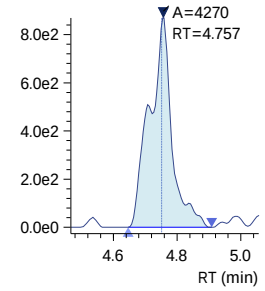
R1 399.00>99.00 (-) 1.27e3


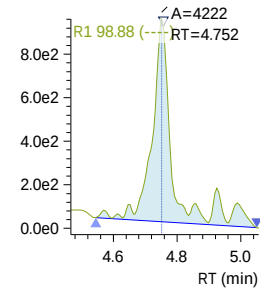
PFHxS-18O
Conc 5.1604
Q 402.70>84.05 (-) 8.47e4


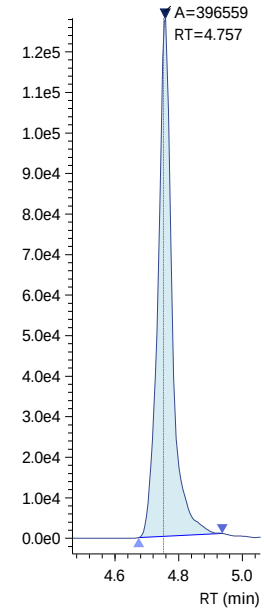
PFHxS-18O_IS
Conc 5.0000
ISTD 402.70>84.05 (-) 8.47e4


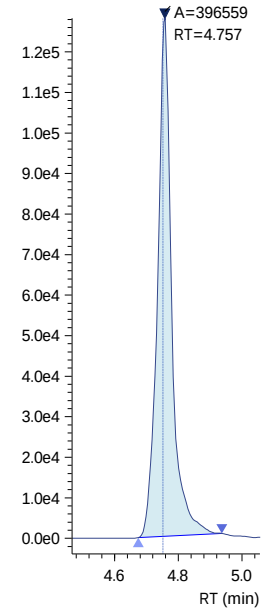
PFHpS_1
Conc 0.0606
R#1 62.62 (58.24)
Q 449.00>80.15 (-) 2.44e3


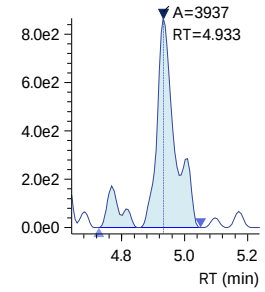
R1 449.00>99.20 (-) 1.21e3


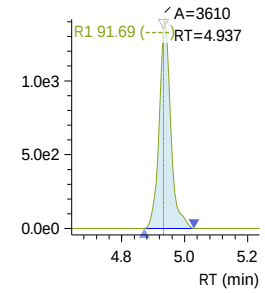
PFOS_1
Conc 0.0557
R#1 98.88 (87.63)
Q 499.00>80.00 (-) 8.69e2


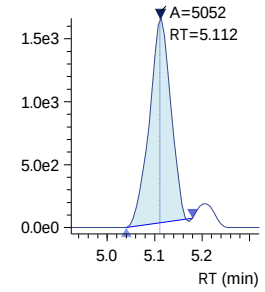
R1 499.00>99.00 (-) 9.62e2


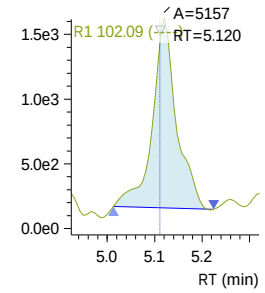
PFOS-13C
Conc 4.9649
Q 502.80>80.05 (-) 1.28e5


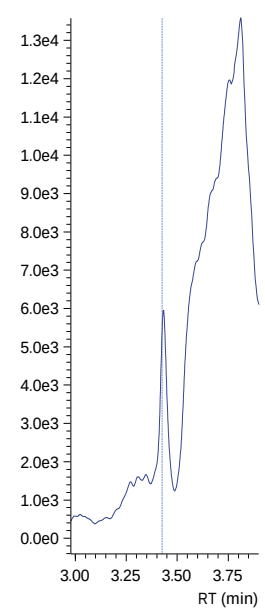
PFOS-13C_IS
Conc 5.0000
ISTD 502.80>80.05 (-) 1.28e5


PFNS
Conc 0.0496
R#1 91.69 (137.56)
Q 549.00>99.00 (-) 8.66e2


R1 549.00>79.95 (-) 1.42e3


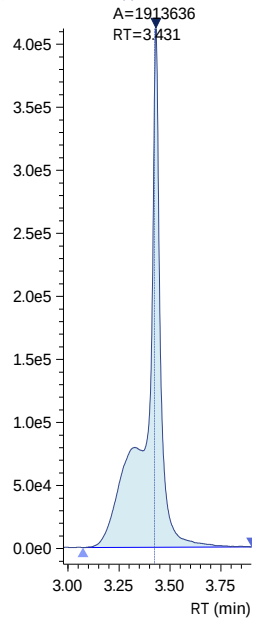
PFDS_1
Conc 0.0545
R#1 102.09 (101.78)
Q 599.00>79.90 (-) 1.66e3


R1 599.00>99.10 (-) 1.62e3


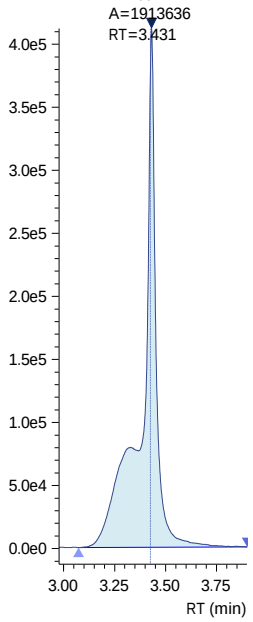
PFBA
Conc ----
Q 213.00>169.10 (-) 1.36e4


210819_020 (continued)

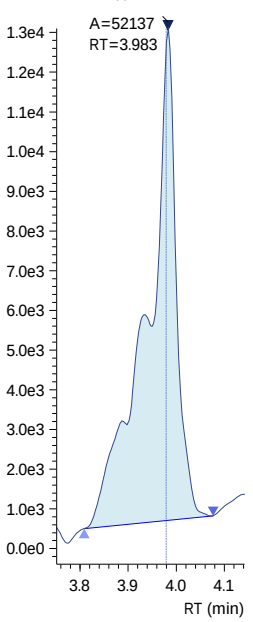
PFBA-13C
Conc 5.1319
Q 216.90>172.15 (-) 4.13e5



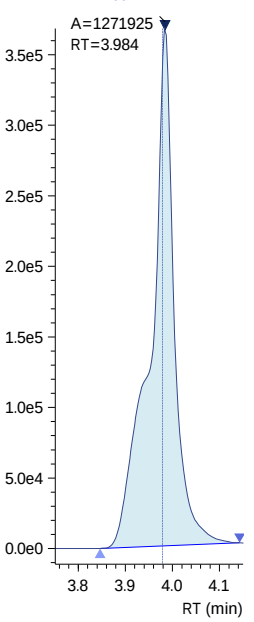
PFBA-13C_IS
Conc 5.0000
ISTD 216.90>172.15 (-) 4.13e5



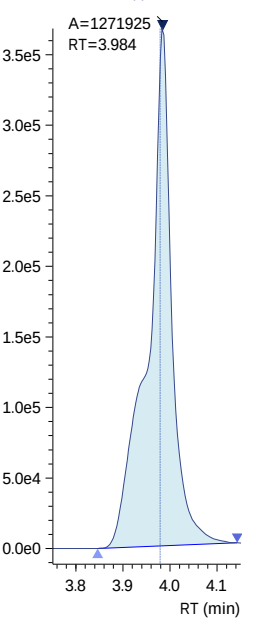
PFPeA
Conc 0.0516
Q 263.05>219.10 (-) 1.31e4



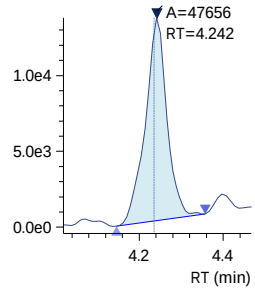
PFPeA-13C
Conc 5.1759
Q 267.90>223.00 (-) 3.69e5



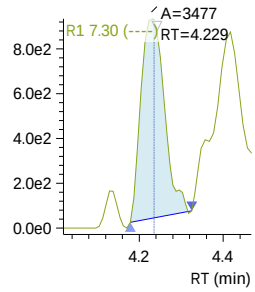
PFPeA-13C_IS
Conc 5.0000
ISTD 267.90>223.00 (-) 3.69e5



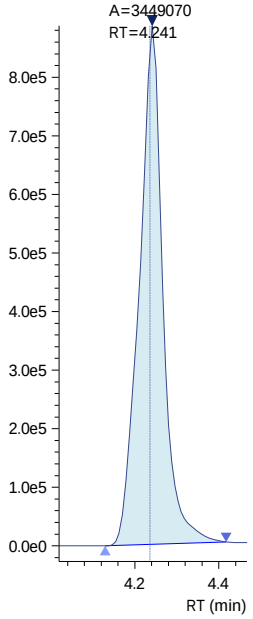
PFHxA
Conc 0.0509
R#1 7.30 (4.21)
Q 313.00>269.00 (-) 1.38e4



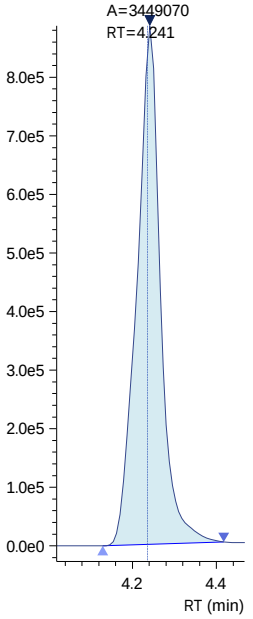
R1 313.00>119.10 (-) 9.34e2



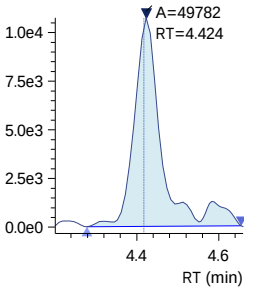
PFHxA-13C
Conc 5.0834
Q 314.90>270.10 (-) 8.88e5



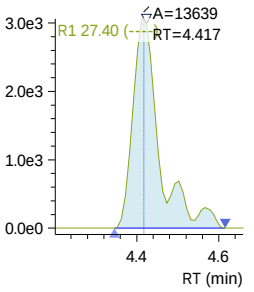
PFHxA-13C_IS
Conc 5.0000
ISTD 314.90>270.10 (-) 8.88e5



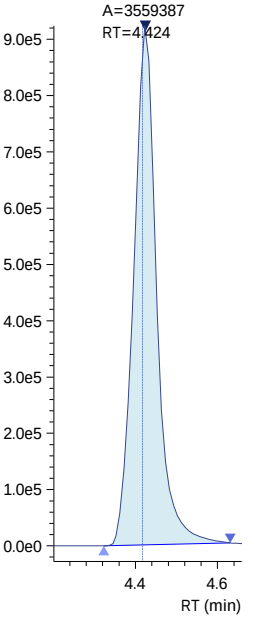
PFHpA
Conc 0.0530
R#1 27.40 (26.69)
Q 362.90>319.00 (-) 1.08e4



R1 362.90>169.00 (-) 3.06e3



PFHpA-13C
Conc 5.1814
Q 366.90>322.10 (-) 9.24e5



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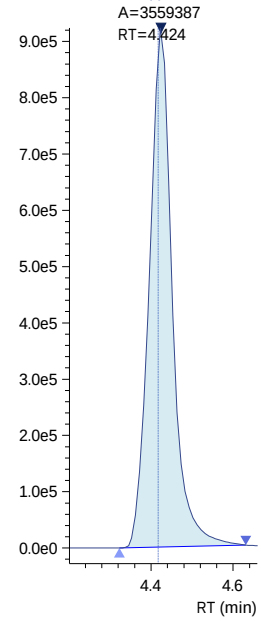
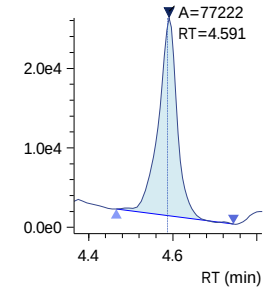
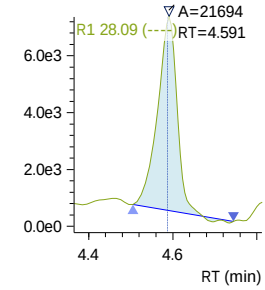
PFHpA-13C_IS
Conc 5.0000
ISTD 366.90>322.10 (-) 9.24e5



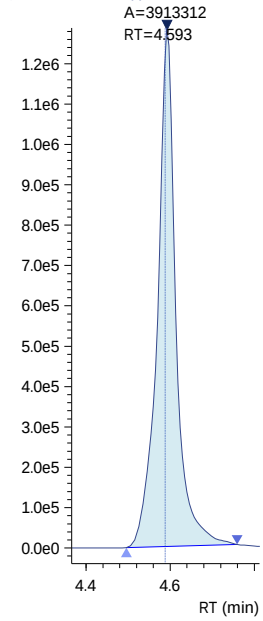
PFOA
Conc 0.0545
R#1 28.09 (31.31)
Q 413.00>369.00 (-) 2.63e4



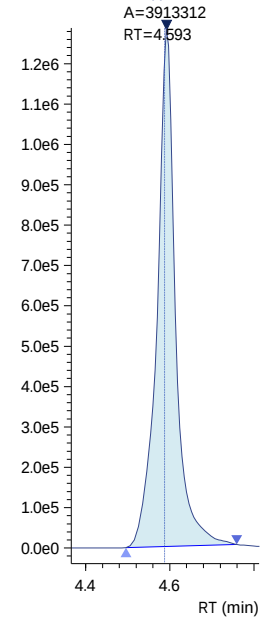
R1 413.00>169.10 (-) 7.37e3



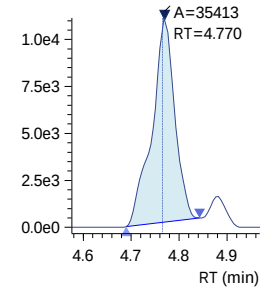
PFOA-13C
Conc 5.1171
Q 416.80>372.05 (-) 1.29e6



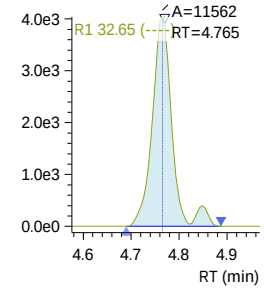
PFOA-13C_IS
Conc 5.0000
ISTD 416.80>372.05 (-) 1.29e6



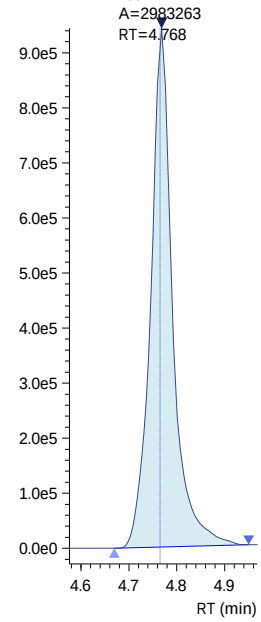
PFNA
Conc 0.0477
R#1 32.65 (20.54)
Q 463.00>418.90 (-) 1.11e4



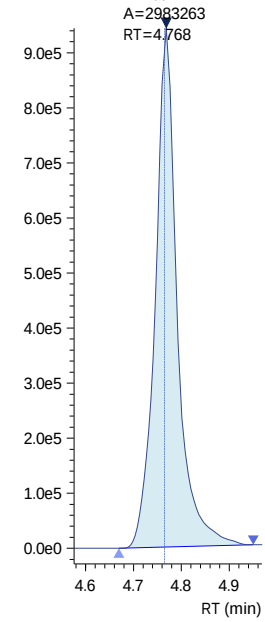
R1 463.00>219.00 (-) 4.04e3



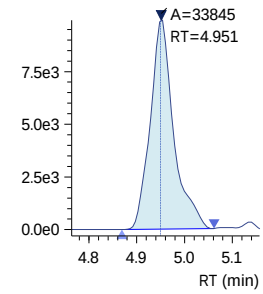
PFNA-13C
Conc 5.1139
Q 467.80>423.00 (-) 9.45e5



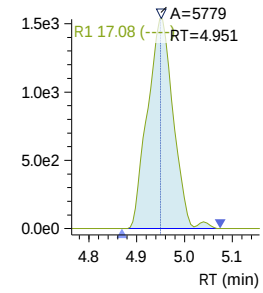
PFNA-13C_IS
Conc 5.0000
ISTD 467.80>423.00 (-) 9.45e5



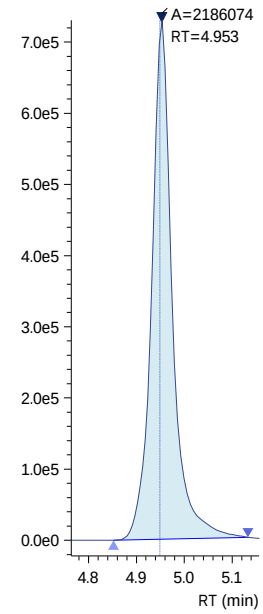
PFDA
Conc 0.0518
R#1 17.08 (20.01)
Q 513.00>468.80 (-) 9.94e3



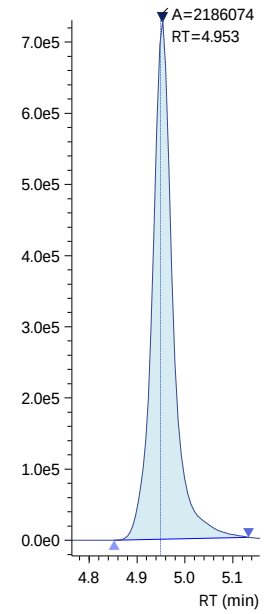
R1 513.00>219.10 (-) 1.53e3



PFDA-13C
Conc 5.0700
Q 514.80>469.95 (-) 7.31e5



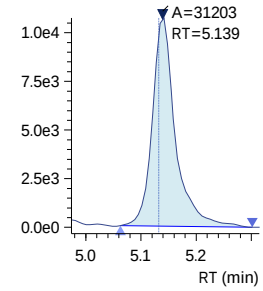
PFDA-13C_IS
Conc 5.0000
ISTD 514.80>469.95 (-) 7.31e5



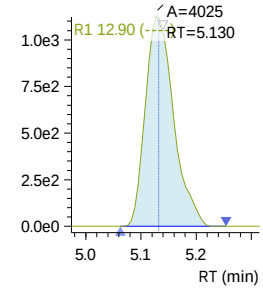
Insight Report
Before Manual Integration
Printed 8/20/2021 09:47:37

210819_020 (continued)

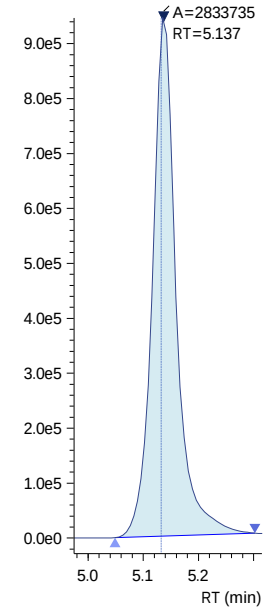
PFUnA
Conc 0.0461
R#1 12.90 (13.39)
Q 563.00>518.90 (-) 1.08e4



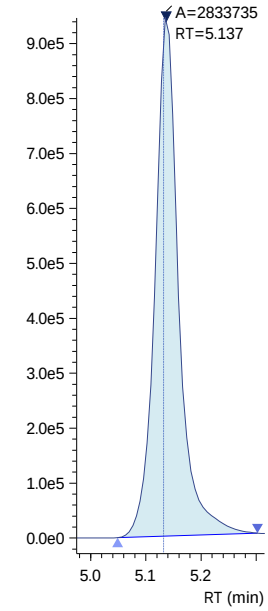
R1 563.00>219.00 (-) 1.12e3



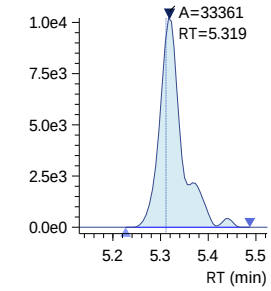
PFUnA-13C
Conc 4.9327



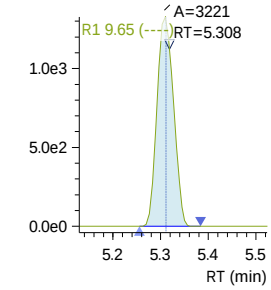
PFUnA-13C_IS
Conc 5.0000
ISTD 564.80>519.95 (-) 9.47e5



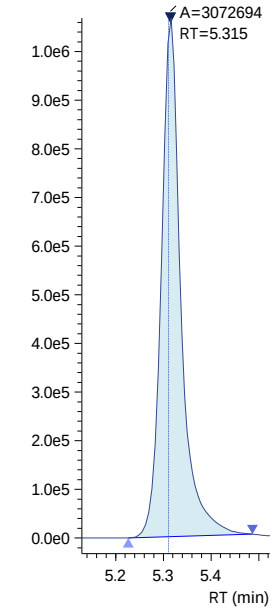
PFDoA
Conc 0.0556
R#1 9.65 (16.84)
Q 613.05>569.00 (-) 1.02e4



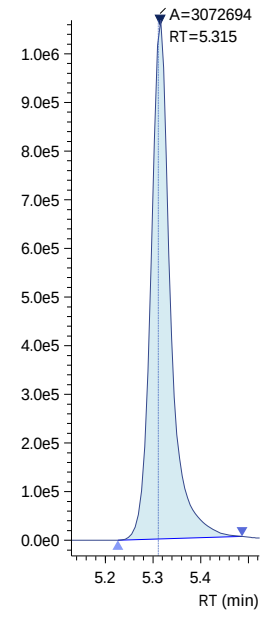
R1 613.05>169.00 (-) 1.33e3



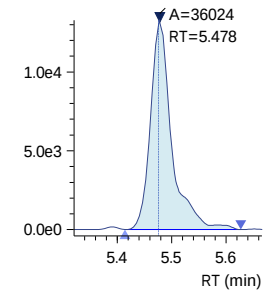
PFDoA-13C
Conc 4.8827
Q 614.80>569.95 (-) 1.07e6



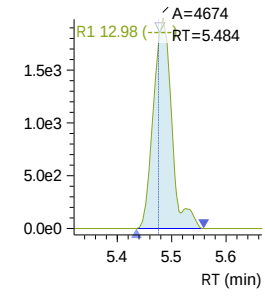
PFDoA-13C_IS
Conc 5.0000
ISTD 614.80>569.95 (-) 1.07e6



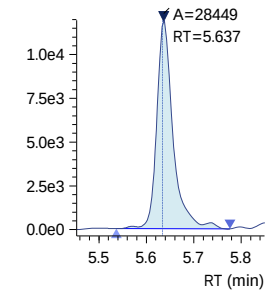
PFTrDA
Conc 0.0576
R#1 12.98 (16.76)
Q 663.00>618.90 (-) 1.33e4



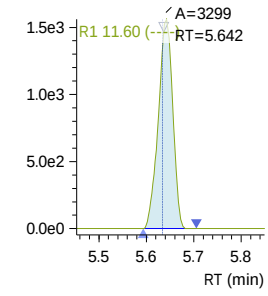
R1 662.90>169.00 (-) 1.98e3



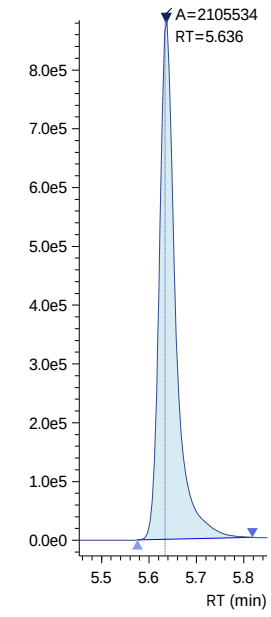
PFTeDA
Conc 0.0591
R#1 11.60 (16.56)
Q 713.00>669.00 (-) 1.20e4



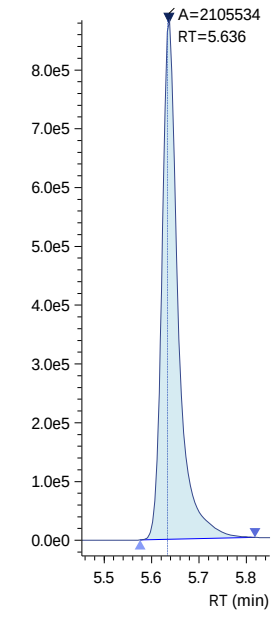
R1 713.00>169.10 (-) 1.56e3



PFTeDA-13C
Conc 4.9441
Q 714.70>669.90 (-) 8.85e5

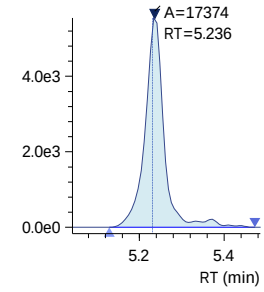


PFTeDA-13C_IS
Conc 5.0000
ISTD 714.70>669.90 (-) 8.85e5

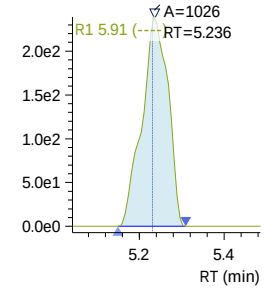


210819_020 (continued)

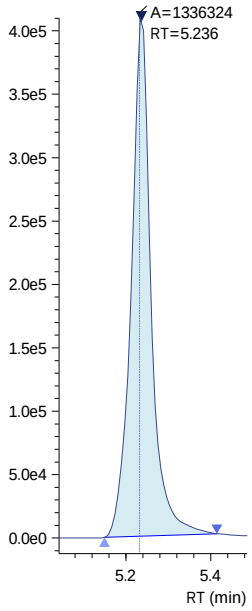
FOSA
Conc 0.0501
R#1 5.91 (4.59)
Q 498.20>78.00 (-) 5.55e3



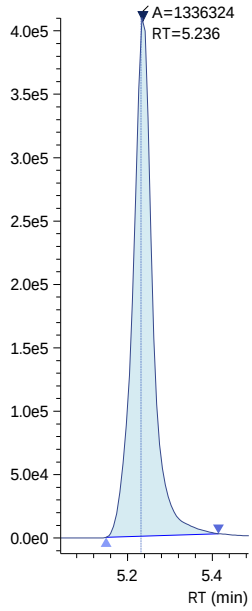
R1 498.20>64.10 (-) 2.39e2



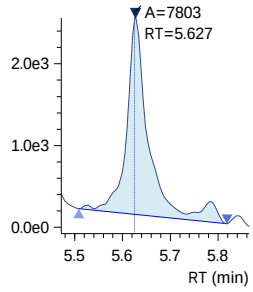
FOSA-13C
Conc 4.9274
Q 506.00>78.05 (-) 4.10e5



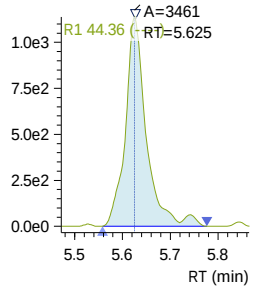
FOSA-13C_IS
Conc 5.0000
ISTD 506.00>78.05 (-) 4.10e5



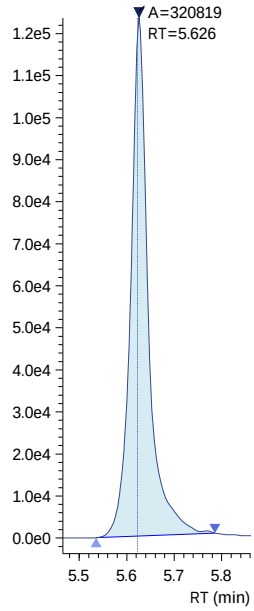
N-MeFOSA
Conc 0.0592
R#1 44.36 (68.73)
Q 512.00>169.10 (-) 2.56e3



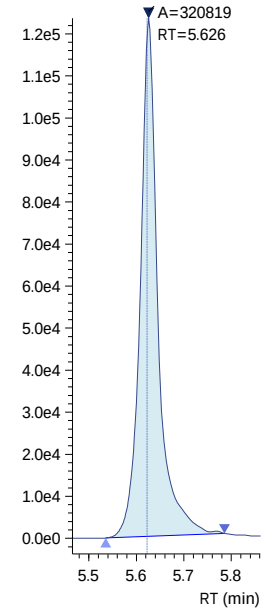
R1 512.00>219.00 (-) 1.14e3



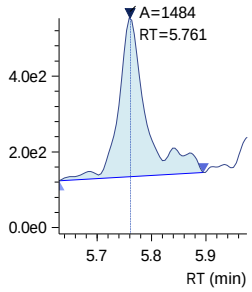
N-MeFOSA-d3
Conc 5.0876
Q 514.90>168.90 (-) 1.24e5



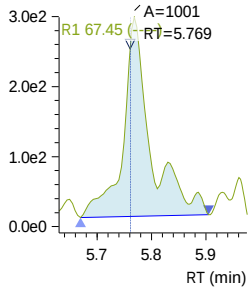
N-MeFOSA-d3_IS
Conc 5.0000
ISTD 514.90>168.90 (-) 1.24e5



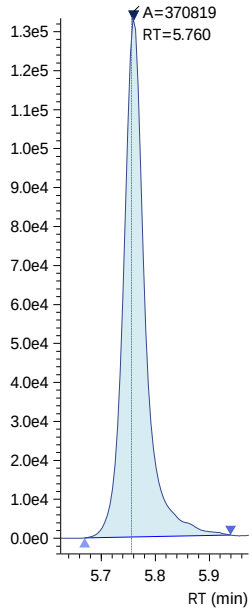
N-EtFOSA
Conc 0.0491
R#1 67.45 (62.10)
Q 526.90>169.10 (-) 5.53e2



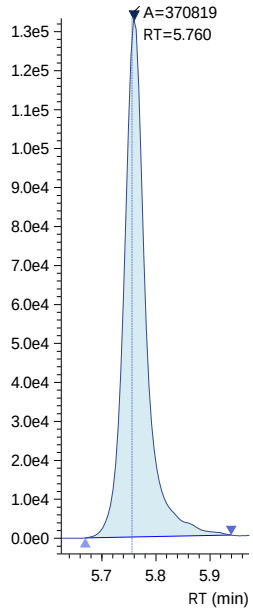
R1 526.90>219.00 (-) 2.99e2



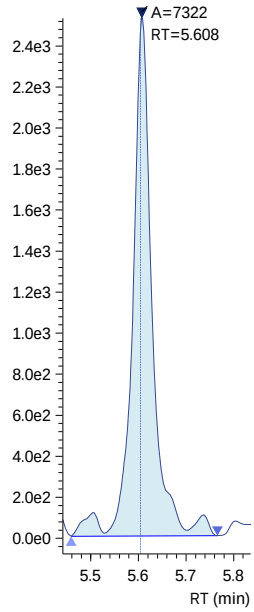
N-EtFOSA-d9
Conc 5.1755
Q 530.90>169.15 (-) 1.33e5



N-EtFOSA-d9_IS
Conc 5.0000
ISTD 530.90>169.15 (-) 1.33e5

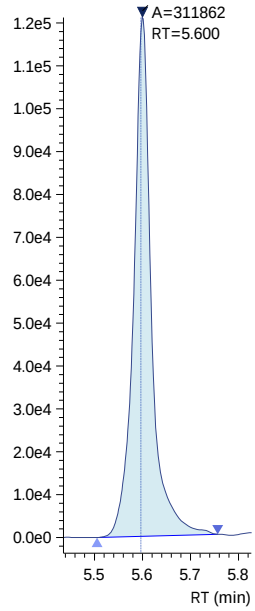


N-MeFOSE
Conc 0.0524
Q 616.00>59.00 (-) 2.54e3

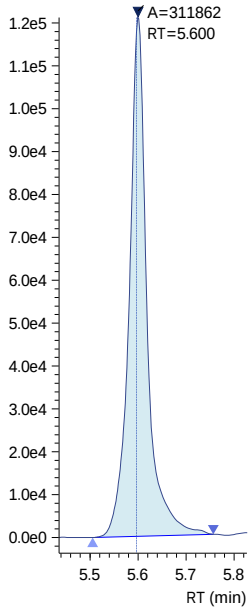


210819_020 (continued)

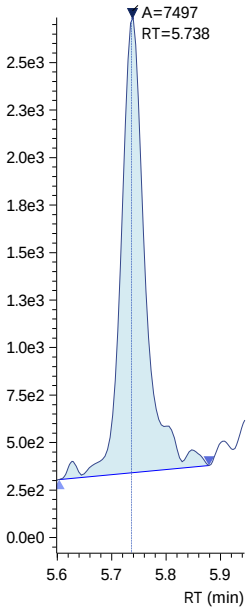
N-MeFOSE-d7
Conc 4.9454
Q 622.70>59.10 (-) 1.21e5



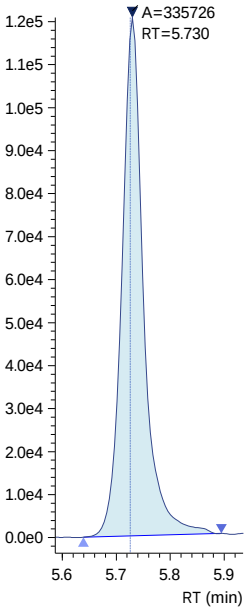
N-MeFOSE-d7_IS
Conc 5.0000
ISTD 622.70>59.10 (-) 1.21e5



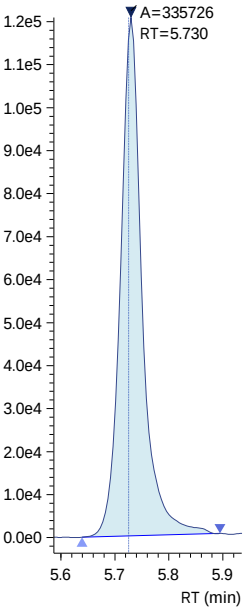
N-EtFOSE
Conc 0.0475
Q 630.00>58.90 (-) 2.74e3



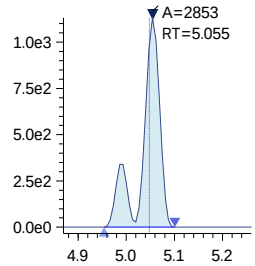
N-EtFOSE-d9
Conc 5.1423
Q 638.70>59.10 (-) 1.21e5



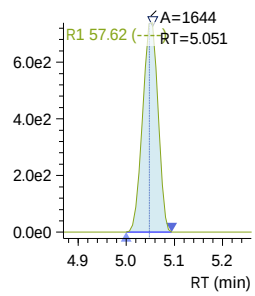
N-EtFOSE-d9_IS
Conc 5.0000
ISTD 638.70>59.10 (-) 1.21e5



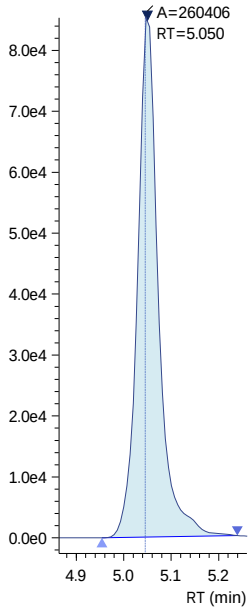
N-MeFOSAA
Conc 0.0710
R#1 57.62 (52.81)
Q 570.20>419.00 (-) 1.13e3



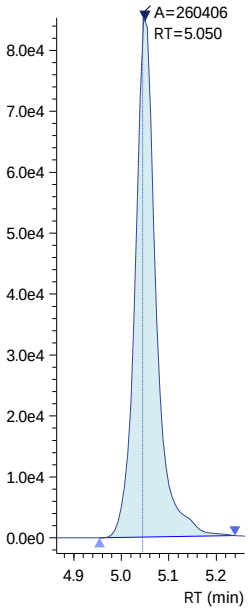
R1 570.20>512.00 (-) 7.39e2



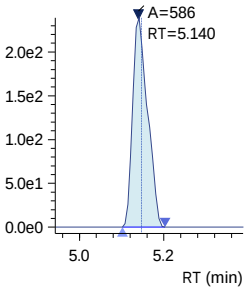
N-MeFOSAA-d3
Conc 5.0541
Q 572.80>419.05 (-) 8.53e4



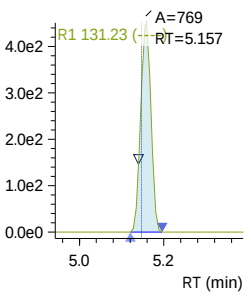
N-MeFOSAA-d3_IS
Conc 5.0000
ISTD 572.80>419.05 (-) 8.53e4



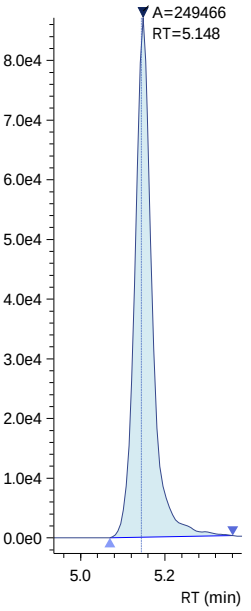
N-EtFOSAA
Conc 0.0452
R#1 131.23 (86.68)
Q 584.20>418.95 (-) 2.39e2



R1 584.20>526.10 (-) 4.51e2

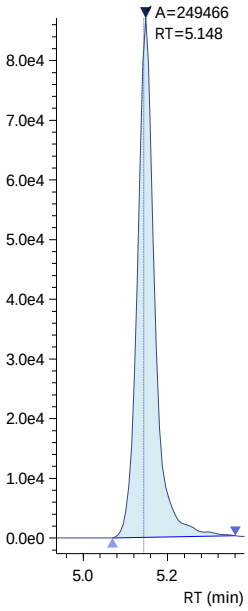


N-EtFOSAA-d5
Conc 5.1792
Q 588.80>419.00 (-) 8.71e4

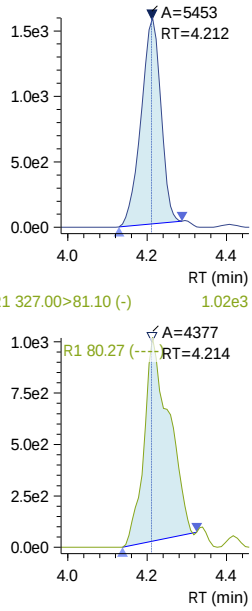


210819_020 (continued)

N-EtFOSAA-d5_IS
Conc 5.0000
ISTD 588.80>419.00 (-) 8.71e4

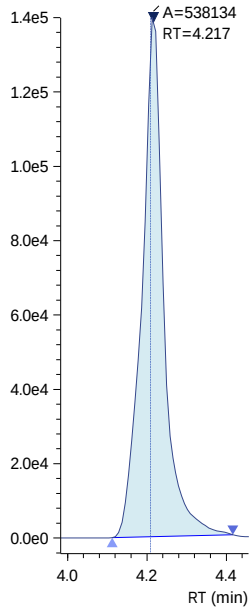


4_2-FTS_1
Conc 0.0506
R#1 80.27 (33.17)
Q 327.00>307.05 (-) 1.60e3

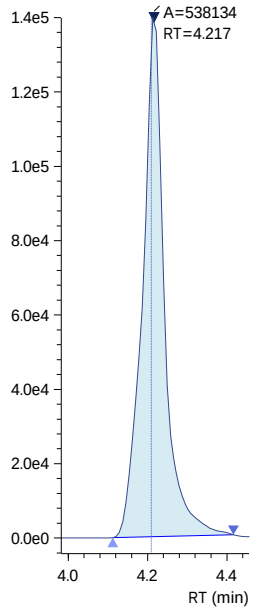


R1 327.00>81.10 (-) 1.02e3

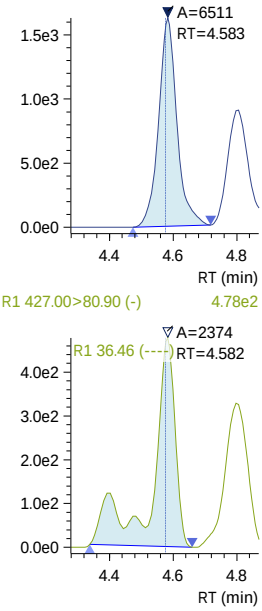
4_2-FTS-13C
Conc 5.1291
Q 328.80>309.05 (-) 1.40e5



4_2-FTS-13C_IS
Conc 5.0000
ISTD 328.80>309.05 (-) 1.40e5

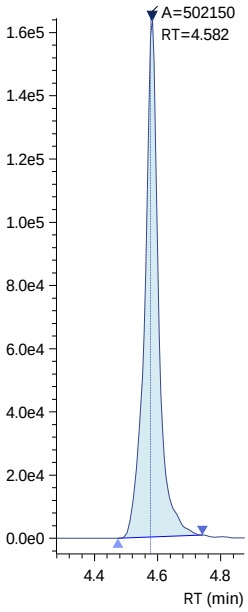


6_2-FTS_1
Conc 0.0459
R#1 36.46 (31.24)
Q 427.00>407.00 (-) 1.63e3

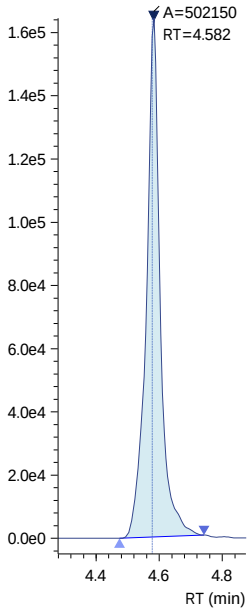


R1 427.00>80.90 (-) 4.78e2

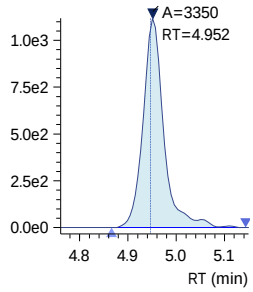
6_2-FTS-13C
Conc 5.0663
Q 428.90>409.00 (-) 1.65e5



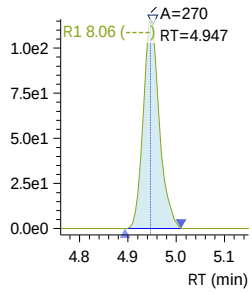
6_2-FTS-13C_IS
Conc 5.0000
ISTD 428.90>409.00 (-) 1.65e5



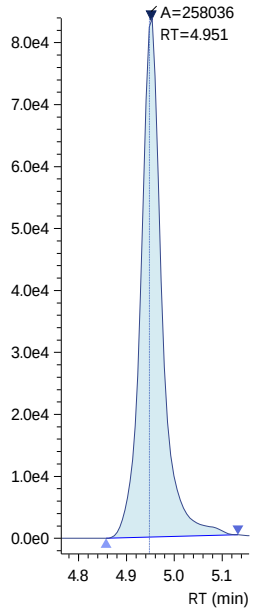
8_2-FTS_1
Conc 0.0558
R#1 8.06 (9.11)
Q 527.10>506.90 (-) 1.12e3



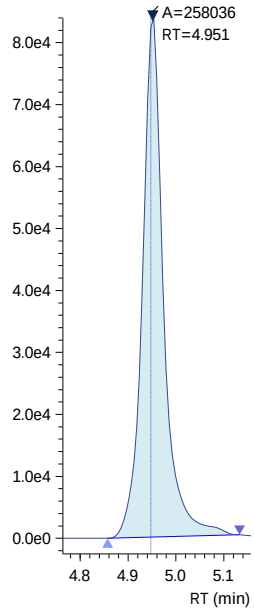
R1 527.20>487.00 (-) 1.16e2



8_2-FTS-13C
Conc 4.8912
Q 528.80>509.00 (-) 8.39e4

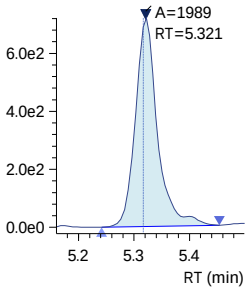


8_2-FTS-13C_IS
Conc 5.0000
ISTD 528.80>509.00 (-) 8.39e4

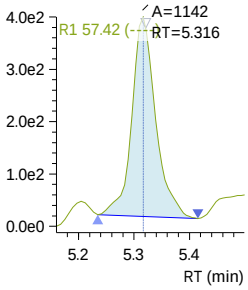


210819_020 (continued)

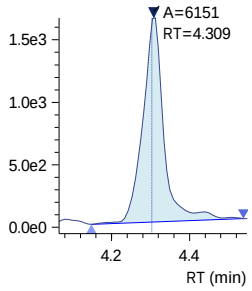
10_2-FtS_1
Conc 0.0476
R#1 57.42 (50.91)
Q 627.00>606.95 (-) 7.22e2



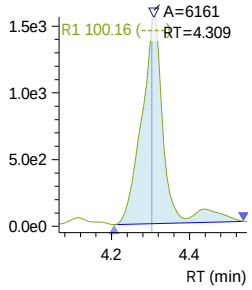
R1 627.00>81.25 (-) 4.00e2



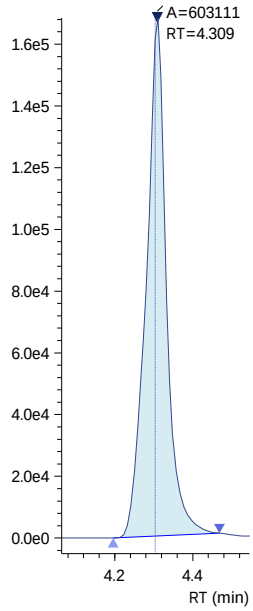
HPFO_DA
Conc 0.0551
R#1 100.16 (109.48)
Q 329.00>169.00 (-) 1.68e3



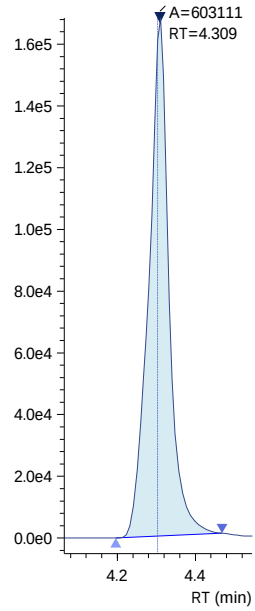
R1 329.00>285.10 (-) 1.57e3



HFPO_DA-13C
Conc 5.1126
Q 332.00>286.80 (-) 1.69e5



HFPO_DA-13C_IS
Conc 5.0000
ISTD 332.00>286.80 (-) 1.69e5



Insight Report
Retention Time/Signal:Noise Ratio Confirmation
Printed 8/20/2021 11:18:22

210819_021

Sample ID: PFC ICAL @ 0.10ppb
Date Acquired: 8/19/2021 6:49:51 PM
Acquired by: System Administrator
Data File: 210819_021
Vial: 2 | Inj. Volume: 15.0000uL | Tray: 0

Name	m/z	Ref 1 m/z	Found RT	RT Diff	ISTD RT Diff	S/N	Ref 1 S/N	Flag ID
13C7-PFUnDA_IS	570.00>525.00	----	5.132	0.000	----	68008	----	
PFBS_1	299.00>80.00	298.80>99.00	4.032	-0.001	-0.001	(INF)	148	
PFBS-13C	301.80>80.00	----	4.033	0.000	-1.099	(INF)	----	
PFBS-13C_IS	301.80>80.00	----	4.033	0.000	----	(INF)	----	
PFPeS	349.00>99.00	349.00>79.95	4.253	0.000	0.220	74	(INF)	
PFHxS_1	399.00>80.00	399.00>99.00	4.412	-0.002	-0.006	11849	50	
PFHxS-18O	402.70>84.05	----	4.418	0.000	-0.714	(INF)	----	
PFHxS-18O_IS	402.70>84.05	----	4.418	0.000	----	(INF)	----	
PFHpS_1	449.00>80.15	449.00>99.20	4.581	0.000	0.163	2836	72	
PFOS_1	499.00>80.00	499.00>99.00	4.749	-0.003	-0.003	114	56	
PFOS-13C	502.80>80.05	----	4.752	0.000	-0.380	(INF)	----	
PFOS-13C_IS	502.80>80.05	----	4.752	0.000	----	(INF)	----	
PFNS	549.00>99.00	549.00>79.95	4.932	-0.001	0.180	66	(INF)	
PFDS_1	599.00>79.90	599.00>99.10	5.112	0.001	0.360	(INF)	(INF)	
PFBA	213.00>169.10	----	3.425	-0.001	0.001	8	----	SN error in calc.
PFBA-13C	216.90>172.15	----	3.424	-0.001	-1.708	3696	----	
PFBA-13C_IS	216.90>172.15	----	3.424	-0.001	----	3696	----	
PFPeA	263.05>219.10	----	3.979	0.000	0.001	285	----	
PFPeA-13C	267.90>223.00	----	3.978	-0.001	-1.154	12658	----	
PFPeA-13C_IS	267.90>223.00	----	3.978	-0.001	----	12658	----	
PFHxA	313.00>269.00	313.00>119.10	4.234	-0.002	-0.001	381	(INF)	
PFHxA-13C	314.90>270.10	----	4.235	-0.001	-0.897	15559	----	
PFHxA-13C_IS	314.90>270.10	----	4.235	-0.001	----	15559	----	
PFHpA	362.90>319.00	362.90>169.00	4.417	0.000	0.000	85	23658	
PFHpA-13C	366.90>322.10	----	4.417	0.000	-0.715	34115	----	
PFHpA-13C_IS	366.90>322.10	----	4.417	0.000	----	34115	----	
PFOA	413.00>369.00	413.00>169.10	4.586	-0.002	-0.002	273	582	
PFOA-13C	416.80>372.05	----	4.588	0.000	-0.544	45955	----	
PFOA-13C_IS	416.80>372.05	----	4.588	0.000	----	45955	----	
PFNA	463.00>418.90	463.00>219.00	4.763	-0.002	-0.001	(INF)	631	
PFNA-13C	467.80>423.00	----	4.764	-0.001	-0.368	93133	----	
PFNA-13C_IS	467.80>423.00	----	4.764	-0.001	----	93133	----	
PFDA	513.00>468.80	513.00>219.10	4.947	-0.002	-0.001	37320	(INF)	
PFDA-13C	514.80>469.95	----	4.948	-0.001	-0.184	185696	----	
PFDA-13C_IS	514.80>469.95	----	4.948	-0.001	----	185696	----	
PFUnA	563.00>518.90	563.00>219.00	5.132	-0.001	0.000	983	(INF)	
PFUnA-13C	564.80>519.95	----	5.132	0.000	0.000	29188	----	
PFUnA-13C_IS	564.80>519.95	----	5.132	0.000	----	29188	----	
PFDoA	613.05>569.00	613.05>169.00	5.311	0.000	0.001	(INF)	(INF)	
PFDoA-13C	614.80>569.95	----	5.310	-0.001	0.178	495904	----	
PFDoA-13C_IS	614.80>569.95	----	5.310	-0.001	----	495904	----	
PFTrDA	663.00>618.90	662.90>169.00	5.475	-0.001	-0.158	(INF)	(INF)	
PFTeDA	713.00>669.00	713.00>169.10	5.632	-0.002	-0.001	429	(INF)	
PFTeDA-13C	714.70>669.90	----	5.633	-0.001	0.501	74170	----	
PFTeDA-13C_IS	714.70>669.90	----	5.633	-0.001	----	67637	----	
FOSA	498.20>78.00	498.20>64.10	5.232	0.001	0.001	285	(INF)	
FOSA-13C	506.00>78.05	----	5.231	0.000	0.099	1198	----	
FOSA-13C_IS	506.00>78.05	----	5.231	0.000	----	1198	----	
N-MeFOSA	512.00>169.10	512.00>219.00	5.626	0.001	0.004	23	64	
N-MeFOSA-d3	514.90>168.90	----	5.622	0.000	0.490	468	----	
N-MeFOSA-d3_IS	514.90>168.90	----	5.622	0.000	----	468	----	

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SN - Software-calculated S/N ratio outside criteria due to non-target peaks or drift in noise calculation window. Analyst review of noise levels (excluding non-target peaks) in chromatogram indicates S/N ratio meets criteria.

210819_021 (continued)

(Table continued from previous page)

Name	m/z	Ref 1 m/z	Found RT	RT Diff	ISTD RT Diff	S/N	Ref 1 S/N	Flag ID
N-EtFOSA	526.90>169.10	526.90>219.00	5.761	0.000	0.004	48	68	
N-EtFOSA-d9	530.90>169.15	----	5.757	0.001	0.625	(INF)	----	
N-EtFOSA-d9_IS	530.90>169.15	----	5.757	0.001	----	(INF)	----	
N-MeFOSE	616.00>59.00	----	5.604	-0.001	0.008	137	----	
N-MeFOSE-d7	622.70>59.10	----	5.596	-0.001	0.464	921	----	
N-MeFOSE-d7_IS	622.70>59.10	----	5.596	-0.001	----	921	----	
N-EtFOSE	630.00>58.90	----	5.737	0.001	0.012	453	----	
N-EtFOSE-d9	638.70>59.10	----	5.725	-0.001	0.593	1840	----	
N-EtFOSE-d9_IS	638.70>59.10	----	5.725	-0.001	----	1840	----	
N-MeFOSAA	570.20>419.00	570.20>512.00	5.054	0.006	0.009	(INF)	3	
N-MeFOSAA-d3	572.80>419.05	----	5.045	0.000	-0.087	131507	----	
N-MeFOSAA-d3_IS	572.80>419.05	----	5.045	0.000	----	131507	----	
N-EtFOSAA	584.20>418.95	584.20>526.10	5.153	0.005	0.010	(INF)	19	
N-EtFOSAA-d5	588.80>419.00	----	5.143	-0.001	0.011	(INF)	----	
N-EtFOSAA-d5_IS	588.80>419.00	----	5.143	-0.001	----	(INF)	----	
4_2-FTS_1	327.00>307.05	327.00>81.10	4.209	-0.001	0.000	(INF)	32	
4_2-FTS-13C	328.80>309.05	----	4.209	-0.001	-0.923	8014	----	
4_2-FTS-13C_IS	328.80>309.05	----	4.209	-0.001	----	8528	----	
6_2-FTS_1	427.00>407.00	427.00>80.90	4.578	0.002	0.000	122	30	
6_2-FTS-13C	428.90>409.00	----	4.578	0.000	-0.554	(INF)	----	
6_2-FTS-13C_IS	428.90>409.00	----	4.578	0.000	----	(INF)	----	
8_2-FTS_1	527.10>506.90	527.20>487.00	4.945	-0.002	-0.001	(INF)	(INF)	
8_2-FTS-13C	528.80>509.00	----	4.946	-0.001	-0.186	23121	----	
8_2-FTS-13C_IS	528.80>509.00	----	4.946	-0.001	----	23121	----	
10_2-FtS_1	627.00>606.95	627.00>81.25	5.316	-0.001	0.370	(INF)	71	
HPFO_DA	329.00>169.00	329.00>285.10	4.302	-0.001	-0.001	147	140	
HFPO_DA-13C	332.00>286.80	----	4.303	-0.001	-0.829	36698	----	
HFPO_DA-13C_IS	332.00>286.80	----	4.303	-0.001	----	36698	----	

Flag ID key: SN: S/N

Insight Report
Ion Ratio Confirmation
Printed 8/20/2021 11:19:20

210819_021

Sample ID: PFC ICAL @ 0.10ppb
Date Acquired: 8/19/2021 6:49:51 PM
Acquired by: System Administrator
Data File: 210819_021
Vial: 2 | Inj. Volume: 15.0000uL | Tray: 0

Name	m/z	Ref 1 m/z	Area	Ref 1 Measured	Ref 1 Actual Ratio	Ref 1 Set Ratio	Comment 1	Flag ID
13C7-PFUnDA_IS	570.00>525.00	----	4795453	----	----	----		
PFBS_1	299.00>80.00	298.80>99.00	14298	6716	46.97	47.76	23.88-71.64	
PFBS-13C	301.80>80.00	----	480996	----	----	----	0-0	
PFBS-13C_IS	301.80>80.00	----	480996	----	----	----	0-0	
PFPeS	349.00>99.00	349.00>79.95	9626	11045	114.74	136.08	68.04 -204.13	
PFHxS_1	399.00>80.00	399.00>99.00	10925	8890	81.38	71.26	35.63 -106.89	
PFHxS-18O	402.70>84.05	----	349649	----	----	----	0-0	
PFHxS-18O_IS	402.70>84.05	----	349649	----	----	----	0-0	
PFHpS_1	449.00>80.15	449.00>99.20	14087	7601	53.96	53.84	26.92-80.76	
PFOS_1	499.00>80.00	499.00>99.00	6151	6492	105.54	86.72	43.36 -130.08	
PFOS-13C	502.80>80.05	----	424679	----	----	----	0-0	
PFOS-13C_IS	502.80>80.05	----	424679	----	----	----	0-0	
PFNS	549.00>99.00	549.00>79.95	6834	8430	123.35	129.18	64.59 -193.78	
PFDS_1	599.00>79.90	599.00>99.10	7399	8155	110.23	90.77	45.38 -136.15	
PFBA	213.00>169.10	----	49491	----	----	----		SN error in calc.
PFBA-13C	216.90>172.15	----	1896780	----	----	----		
PFBA-13C_IS	216.90>172.15	----	1896780	----	----	----		
PFPeA	263.05>219.10	----	92024	----	----	----		
PFPeA-13C	267.90>223.00	----	1269409	----	----	----	0-0	
PFPeA-13C_IS	267.90>223.00	----	1269409	----	----	----	0-0	
PFHxA	313.00>269.00	313.00>119.10	94866	3126	3.30	4.17	2.08-6.25	
PFHxA-13C	314.90>270.10	----	3716829	----	----	----	0-0	
PFHxA-13C_IS	314.90>270.10	----	3716829	----	----	----	0-0	
PFHpA	362.90>319.00	362.90>169.00	85352	25143	29.46	26.04	13.02-39.07	
PFHpA-13C	366.90>322.10	----	3818540	----	----	----	0-0	
PFHpA-13C_IS	366.90>322.10	----	3818540	----	----	----	0-0	
PFOA	413.00>369.00	413.00>169.10	126064	41621	33.02	30.35	15.18-45.53	
PFOA-13C	416.80>372.05	----	4075658	----	----	----	0-0	
PFOA-13C_IS	416.80>372.05	----	4075658	----	----	----	0-0	
PFNA	463.00>418.90	463.00>219.00	75583	13902	18.39	22.35	11.18-33.53	
PFNA-13C	467.80>423.00	----	2995529	----	----	----	0-0	
PFNA-13C_IS	467.80>423.00	----	2995529	----	----	----	0-0	
PFDA	513.00>468.80	513.00>219.10	62312	13888	22.29	18.73	9.36-28.09	
PFDA-13C	514.80>469.95	----	2238109	----	----	----	0-0	
PFDA-13C_IS	514.80>469.95	----	2238109	----	----	----	0-0	
PFUnA	563.00>518.90	563.00>219.00	75976	6918	9.11	11.60	5.8-17.4	
PFUnA-13C	564.80>519.95	----	3004604	----	----	----	0-0	
PFUnA-13C_IS	564.80>519.95	----	3004604	----	----	----	0-0	
PFDoA	613.05>569.00	613.05>169.00	59444	9236	15.54	15.11	7.55-22.66	
PFDoA-13C	614.80>569.95	----	3103195	----	----	----	0-0	
PFDoA-13C_IS	614.80>569.95	----	3103195	----	----	----	0-0	
PFTrDA	663.00>618.90	662.90>169.00	59468	8525	14.34	14.19	7.09-21.28	
PFTeDA	713.00>669.00	713.00>169.10	49394	6359	12.87	14.98	7.49-22.46	
PFTeDA-13C	714.70>669.90	----	2164764	----	----	----	0-0	
PFTeDA-13C_IS	714.70>669.90	----	2164764	----	----	----	0-0	
FOSA	498.20>78.00	498.20>64.10	34612	900	2.60	4.89	2.44-7.33	

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Comment 1 field specifies acceptance range for Ref 1 ratio.
IRr - Ion ratio outside criteria. Exceedances for results above the MDL to be "K" flagged in the analytical report.

210819_021 (continued)

(Table continued from previous page)

Name	m/z	Ref 1 m/z	Area	Ref 1 Measured	Ref 1 Actual Ratio	Ref 1 Set Ratio	Comment 1	Flag ID
FOSA-13C	506.00>78.05	----	1354510	----	----	----	0-0	
FOSA-13C_IS	506.00>78.05	----	1354510	----	----	----	0-0	
N-MeFOSA	512.00>169.10	512.00>219.00	11615	7546	64.97	62.72	31.36-94.08	
N-MeFOSA-d3	514.90>168.90	----	325671	----	----	----	0-0	
N-MeFOSA-d3_IS	514.90>168.90	----	325671	----	----	----	0-0	
N-EtFOSA	526.90>169.10	526.90>219.00	2213	1262	57.03	63.35	31.68-95.03	
N-EtFOSA-d9	530.90>169.15	----	362789	----	----	----	0-0	
N-EtFOSA-d9_IS	530.90>169.15	----	362789	----	----	----	0-0	
N-MeFOSE	616.00>59.00	----	13164	----	----	----		
N-MeFOSE-d7	622.70>59.10	----	311802	----	----	----		
N-MeFOSE-d7_IS	622.70>59.10	----	311802	----	----	----		
N-EtFOSE	630.00>58.90	----	14182	----	----	----		
N-EtFOSE-d9	638.70>59.10	----	336874	----	----	----	0-0	
N-EtFOSE-d9_IS	638.70>59.10	----	336874	----	----	----	0-0	
N-MeFOSAA	570.20>419.00	570.20>512.00	1939	402	20.73	35.26	17.63-52.88	
N-MeFOSAA-d3	572.80>419.05	----	266783	----	----	----	0-0	
N-MeFOSAA-d3 _IS	572.80>419.05	----	266783	----	----	----	0-0	
N-EtFOSAA	584.20>418.95	584.20>526.10	3415	1561	45.71	77.25	38.62 -115.87	
N-EtFOSAA-d5	588.80>419.00	----	233238	----	----	----	0-0	
N-EtFOSAA-d5_IS	588.80>419.00	----	233238	----	----	----	0-0	
4_2-FTS_1	327.00>307.05	327.00>81.10	10073	5356	53.17	39.85	19.92-59.77	
4_2-FTS-13C	328.80>309.05	----	538197	----	----	----	0-0	
4_2-FTS-13C_IS	328.80>309.05	----	538197	----	----	----	0-0	
6_2-FTS_1	427.00>407.00	427.00>80.90	13449	4275	31.79	29.95	14.97-44.92	
6_2-FTS-13C	428.90>409.00	----	510878	----	----	----	0-0	
6_2-FTS-13C_IS	428.90>409.00	----	510878	----	----	----	0-0	
8_2-FTS_1	527.10>506.90	527.20>487.00	6006	563	9.37	9.42	4.71-14.13	
8_2-FTS-13C	528.80>509.00	----	274595	----	----	----	0-0	
8_2-FTS-13C_IS	528.80>509.00	----	274595	----	----	----	0-0	
10_2-FtS_1	627.00>606.95	627.00>81.25	3727	1968	52.80	49.86	24.93-74.78	
HPFO_DA	329.00>169.00	329.00>285.10	10835	11229	103.64	101.52	50.76 -152.28	
HFPO_DA-13C	332.00>286.80	----	601397	----	----	----		
HFPO_DA-13C_IS	332.00>286.80	----	601397	----	----	----		

Flag ID key: SN: S/N

Comment 1 field specifies acceptance range for Ref 1 ratio.
IRr - Ion ratio outside criteria. Exceedances for results above the MDL to be "K" flagged in the analytical report.

Insight Report
Quantitation/Integration
Printed 8/20/2021 11:13:44

210819_021

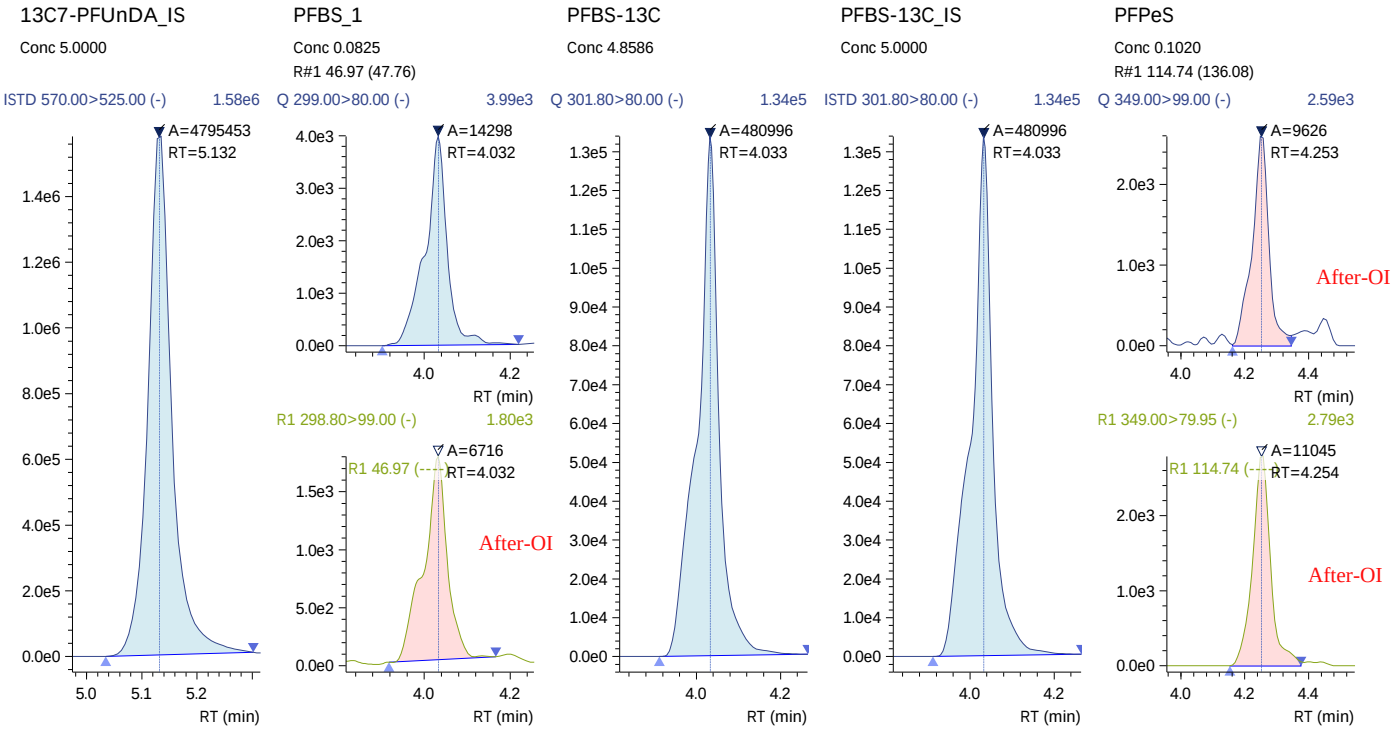
Sample ID: PFC ICAL @ 0.10ppb
Date Acquired: 8/19/2021 6:49:51 PM
Acquired by: System Administrator
Data File: 210819_021
Vial: 2 | Inj. Volume: 15.0000uL | Tray: 0

Name	Mode ID	Found RT	Area	ISTD Area	ISTD Name	Std. Conc.	Conc.	Unit
13C7-PFUnDA_IS	Auto	5.132	4795453	4795453	----	5.0000	5.0000	ng/mL
PFBS_1	MI R1	4.032	14298	480996	PFBS-13C_IS	0.0887	0.0825	ng/mL
PFBS-13C	Auto	4.033	480996	4795453	13C7-PFUnDA_IS	5.0000	4.8586	ng/mL
PFBS-13C_IS	Auto	4.033	480996	480996	----	5.0000	5.0000	ng/mL
PFPeS	M	4.253	9626	480996	PFBS-13C_IS	0.0941	0.1020	ng/mL
PFHxS_1	Auto	4.412	10925	349649	PFHxS-18O_IS	0.0913	0.0725	ng/mL
PFHxS-18O	Auto	4.418	349649	4795453	13C7-PFUnDA_IS	5.0000	5.1797	ng/mL
PFHxS-18O_IS	Auto	4.418	349649	349649	----	5.0000	5.0000	ng/mL
PFHpS_1	Auto	4.581	14087	349649	PFHxS-18O_IS	0.0953	0.0960	ng/mL
PFOS_1	M	4.749	6151	424679	PFOS-13C_IS	0.0929	0.0770	ng/mL
PFOS-13C	Auto	4.752	424679	4795453	13C7-PFUnDA_IS	5.0000	5.0620	ng/mL
PFOS-13C_IS	Auto	4.752	424679	424679	----	5.0000	5.0000	ng/mL
PFNS	M	4.932	6834	424679	PFOS-13C_IS	0.0962	0.0946	ng/mL
PFDS_1	Auto	5.112	7399	424679	PFOS-13C_IS	0.0965	0.0713	ng/mL
PFBA	M	3.425	49491	1896780	PFBA-13C_IS	0.1000	0.1254	ng/mL
PFBA-13C	Auto	3.424	1896780	4795453	13C7-PFUnDA_IS	5.0000	4.8428	ng/mL
PFBA-13C_IS	Auto	3.424	1896780	1896780	----	5.0000	5.0000	ng/mL
PFPeA	Auto	3.979	92024	1269409	PFPeA-13C_IS	0.1000	0.1140	ng/mL
PFPeA-13C	Auto	3.978	1269409	4795453	13C7-PFUnDA_IS	5.0000	4.9180	ng/mL
PFPeA-13C_IS	Auto	3.978	1269409	1269409	----	5.0000	5.0000	ng/mL
PFHxA	M	4.234	94866	3716829	PFHxA-13C_IS	0.1000	0.0942	ng/mL
PFHxA-13C	Auto	4.235	3716829	4795453	13C7-PFUnDA_IS	5.0000	5.2299	ng/mL
PFHxA-13C_IS	Auto	4.235	3716829	3716829	----	5.0000	5.0000	ng/mL
PFHpA	M	4.417	85352	3818540	PFHpA-13C_IS	0.1000	0.1028	ng/mL
PFHpA-13C	Auto	4.417	3818540	4795453	13C7-PFUnDA_IS	5.0000	5.2921	ng/mL
PFHpA-13C_IS	Auto	4.417	3818540	3818540	----	5.0000	5.0000	ng/mL
PFOA	Auto	4.586	126064	4075658	PFOA-13C_IS	0.1000	0.1006	ng/mL
PFOA-13C	Auto	4.588	4075658	4795453	13C7-PFUnDA_IS	5.0000	5.0739	ng/mL
PFOA-13C_IS	Auto	4.588	4075658	4075658	----	5.0000	5.0000	ng/mL
PFNA	Auto	4.763	75583	2995529	PFNA-13C_IS	0.1000	0.1022	ng/mL
PFNA-13C	Auto	4.764	2995529	4795453	13C7-PFUnDA_IS	5.0000	4.8887	ng/mL
PFNA-13C_IS	Auto	4.764	2995529	2995529	----	5.0000	5.0000	ng/mL
PFDA	Auto	4.947	62312	2238109	PFDA-13C_IS	0.1000	0.0931	ng/mL
PFDA-13C	Auto	4.948	2238109	4795453	13C7-PFUnDA_IS	5.0000	4.9418	ng/mL
PFDA-13C_IS	Auto	4.948	2238109	2238109	----	5.0000	5.0000	ng/mL
PFUnA	Auto	5.132	75976	3004604	PFUnA-13C_IS	0.1000	0.1059	ng/mL
PFUnA-13C	Auto	5.132	3004604	4795453	13C7-PFUnDA_IS	5.0000	4.9793	ng/mL
PFUnA-13C_IS	Auto	5.132	3004604	3004604	----	5.0000	5.0000	ng/mL
PFDoA	Auto	5.311	59444	3103195	PFDoA-13C_IS	0.1000	0.0984	ng/mL
PFDoA-13C	Auto	5.310	3103195	4795453	13C7-PFUnDA_IS	5.0000	4.6948	ng/mL
PFDoA-13C_IS	Auto	5.310	3103195	3103195	----	5.0000	5.0000	ng/mL
PFTrDA	Auto	5.475	59468	2164764	PFTeDA-13C_IS	0.1000	0.0925	ng/mL
PFTeDA	Auto	5.632	49394	2164764	PFTeDA-13C_IS	0.1000	0.1015	ng/mL
PFTeDA-13C	Auto	5.633	2164764	4795453	13C7-PFUnDA_IS	5.0000	4.8395	ng/mL
PFTeDA-13C_IS	Auto	5.633	2164764	2164764	----	5.0000	5.0000	ng/mL
FOSA	M	5.232	34612	1354510	FOSA-13C_IS	0.1000	0.1005	ng/mL
FOSA-13C	Auto	5.231	1354510	4795453	13C7-PFUnDA_IS	5.0000	4.7550	ng/mL
FOSA-13C_IS	Auto	5.231	1354510	1354510	----	5.0000	5.0000	ng/mL
N-MeFOSA	M	5.626	11615	325671	N-MeFOSA-d3_IS	0.1000	0.0953	ng/mL
N-MeFOSA-d3	Auto	5.622	325671	4795453	13C7-PFUnDA_IS	5.0000	4.9169	ng/mL
N-MeFOSA-d3_IS	Auto	5.622	325671	325671	----	5.0000	5.0000	ng/mL
N-EtFOSA	M	5.761	2213	362789	N-EtFOSA-d9_IS	0.1000	0.0973	ng/mL
N-EtFOSA-d9	Auto	5.757	362789	4795453	13C7-PFUnDA_IS	5.0000	4.8206	ng/mL
N-EtFOSA-d9_IS	Auto	5.757	362789	362789	----	5.0000	5.0000	ng/mL

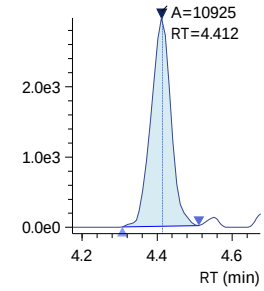
210819_021 (continued)

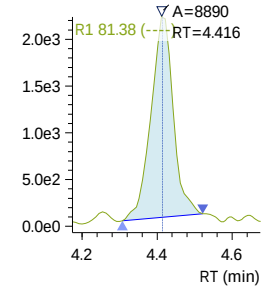
(Table continued from previous page)

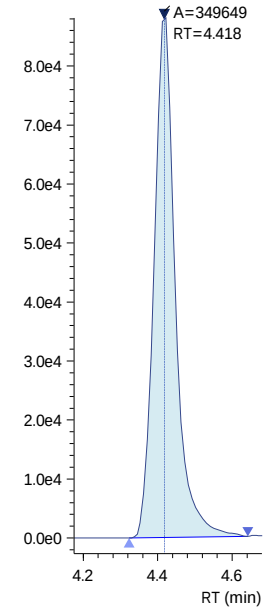
Name	Mode ID	Found RT	Area	ISTD Area	ISTD Name	Std. Conc.	Conc.	Unit
N-MeFOSE	M	5.604	13164	311802	N-MeFOSE-d7_IS	0.1000	0.0964	ng/mL
N-MeFOSE-d7	Auto	5.596	311802	4795453	13C7-PFUnDA_IS	5.0000	4.7074	ng/mL
N-MeFOSE-d7_IS	Auto	5.596	311802	311802	----	5.0000	5.0000	ng/mL
N-EtFOSE	M	5.737	14182	336874	N-EtFOSE-d9_IS	0.1000	0.0920	ng/mL
N-EtFOSE-d9	Auto	5.725	336874	4795453	13C7-PFUnDA_IS	5.0000	4.9125	ng/mL
N-EtFOSE-d9_IS	Auto	5.725	336874	336874	----	5.0000	5.0000	ng/mL
N-MeFOSAA	M	5.054	1939	266783	N-MeFOSAA-d3_IS	0.1000	0.0870	ng/mL
N-MeFOSAA-d3	Auto	5.045	266783	4795453	13C7-PFUnDA_IS	5.0000	4.9385	ng/mL
N-MeFOSAA-d3_IS	Auto	5.045	266783	266783	----	5.0000	5.0000	ng/mL
N-EtFOSAA	M	5.153	3415	233238	N-EtFOSAA-d5_IS	0.1000	0.1118	ng/mL
N-EtFOSAA-d5	Auto	5.143	233238	4795453	13C7-PFUnDA_IS	5.0000	4.6378	ng/mL
N-EtFOSAA-d5_IS	Auto	5.143	233238	233238	----	5.0000	5.0000	ng/mL
4_2-FTS_1	Auto	4.209	10073	538197	4_2-FTS-13C_IS	0.0937	0.0934	ng/mL
4_2-FTS-13C	Auto	4.209	538197	4795453	13C7-PFUnDA_IS	5.0000	4.8838	ng/mL
4_2-FTS-13C_IS	Auto	4.209	538197	538197	----	5.0000	5.0000	ng/mL
6_2-FTS_1	Auto	4.578	13449	510878	6_2-FTS-13C_IS	0.0951	0.0946	ng/mL
6_2-FTS-13C	Auto	4.578	510878	4795453	13C7-PFUnDA_IS	5.0000	4.9072	ng/mL
6_2-FTS-13C_IS	Auto	4.578	510878	510878	----	5.0000	5.0000	ng/mL
8_2-FTS_1	Auto	4.945	6006	274595	8_2-FTS-13C_IS	0.0960	0.0940	ng/mL
8_2-FTS-13C	Auto	4.946	274595	4795453	13C7-PFUnDA_IS	5.0000	4.9555	ng/mL
8_2-FTS-13C_IS	Auto	4.946	274595	274595	----	5.0000	5.0000	ng/mL
10_2-FtS_1	M	5.316	3727	274595	8_2-FTS-13C_IS	0.0966	0.0844	ng/mL
HFPO_DA	Auto	4.302	10835	601397	HFPO_DA-13C_IS	0.1000	0.0990	ng/mL
HFPO_DA-13C	Auto	4.303	601397	4795453	13C7-PFUnDA_IS	5.0000	4.8536	ng/mL
HFPO_DA-13C_IS	Auto	4.303	601397	601397	----	5.0000	5.0000	ng/mL

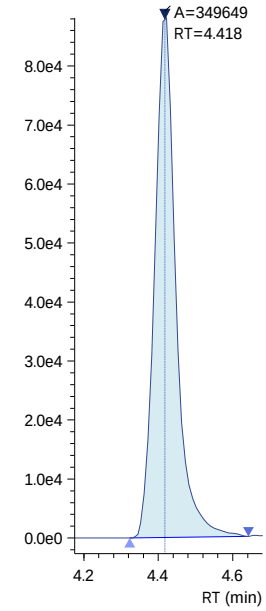


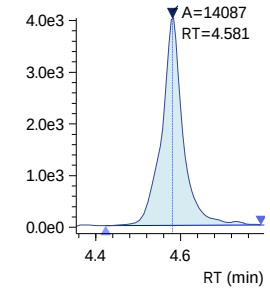
210819_021 (continued)

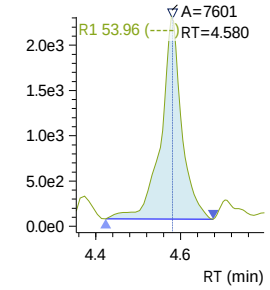
PFHxS_1
Conc 0.0725
R#1 81.38 (71.26)
Q 399.00>80.00 (-) 2.98e3


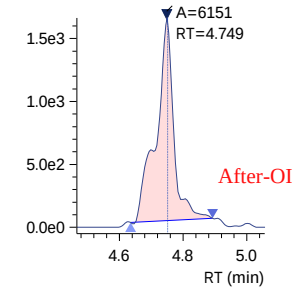
R1 399.00>99.00 (-) 2.24e3


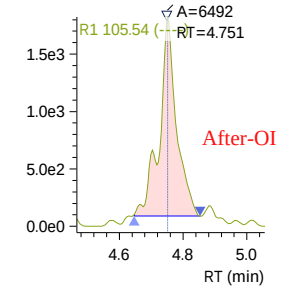
PFHxS-18O
Conc 5.1797
Q 402.70>84.05 (-) 8.81e4


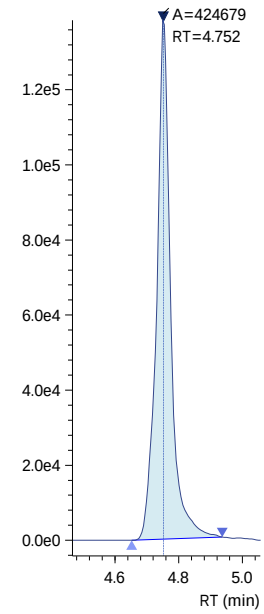
PFHxS-18O_IS
Conc 5.0000
ISTD 402.70>84.05 (-) 8.81e4


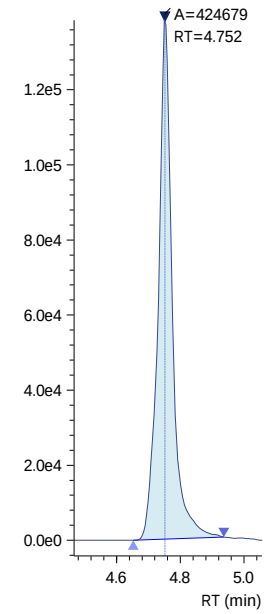
PFHpS_1
Conc 0.0960
R#1 53.96 (53.84)
Q 449.00>80.15 (-) 4.05e3


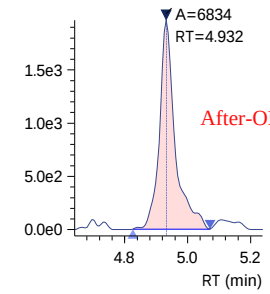
R1 449.00>99.20 (-) 2.31e3


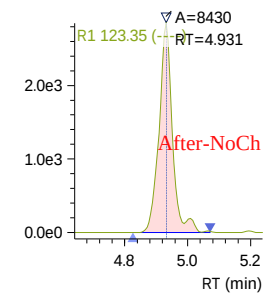
PFOS_1
Conc 0.0770
R#1 105.54 (86.72)
Q 499.00>80.00 (-) 1.66e3


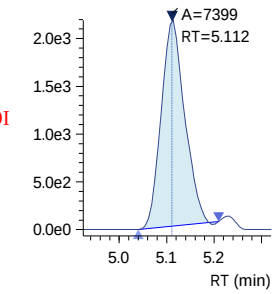
R1 499.00>99.00 (-) 1.82e3


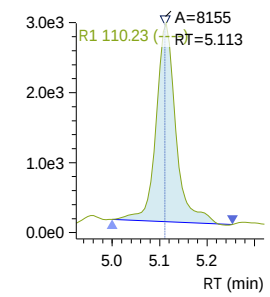
PFOS-13C
Conc 5.0620
Q 502.80>80.05 (-) 1.39e5


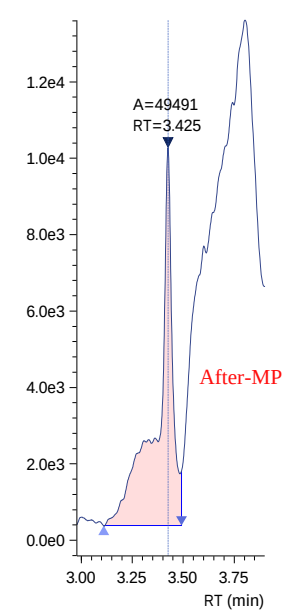
PFOS-13C_IS
Conc 5.0000
ISTD 502.80>80.05 (-) 1.39e5


PFNS
Conc 0.0946
R#1 123.35 (129.18)
Q 549.00>99.00 (-) 1.97e3


R1 549.00>79.95 (-) 2.85e3


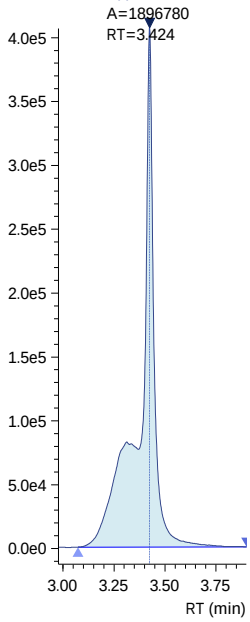
PFDS_1
Conc 0.0713
R#1 110.23 (90.77)
Q 599.00>79.90 (-) 2.19e3


R1 599.00>99.10 (-) 2.99e3


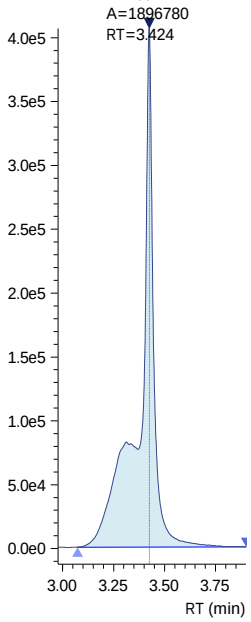
PFBA
Conc 0.1254
Q 213.00>169.10 (-) 1.36e4


210819_021 (continued)

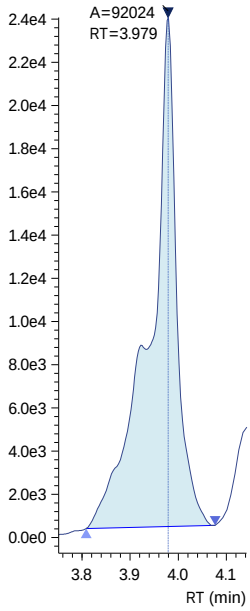
PFBA-13C
Conc 4.8428
Q 216.90>172.15 (-) 4.07e5



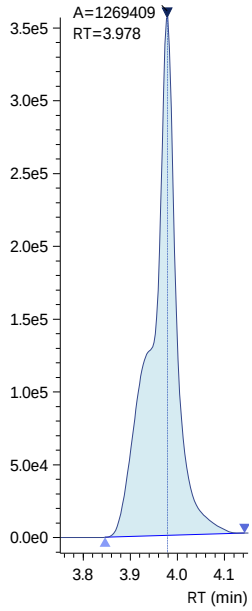
PFBA-13C_IS
Conc 5.0000
ISTD 216.90>172.15 (-) 4.07e5



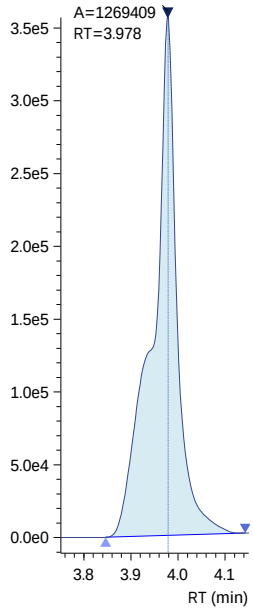
PFPeA
Conc 0.1140
Q 263.05>219.10 (-) 2.41e4



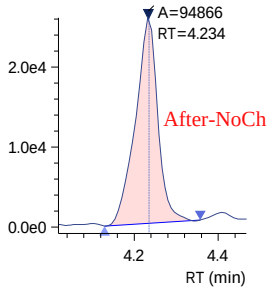
PFPeA-13C
Conc 4.9180
Q 267.90>223.00 (-) 3.57e5



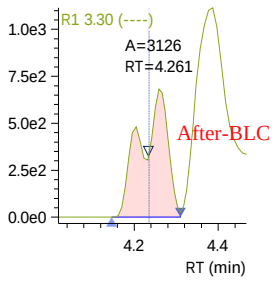
PFPeA-13C_IS
Conc 5.0000
ISTD 267.90>223.00 (-) 3.57e5



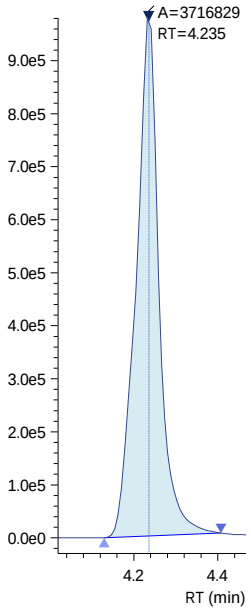
PFHxA
Conc 0.0942
R#1 3.30 (4.17)
Q 313.00>269.00 (-) 2.61e4



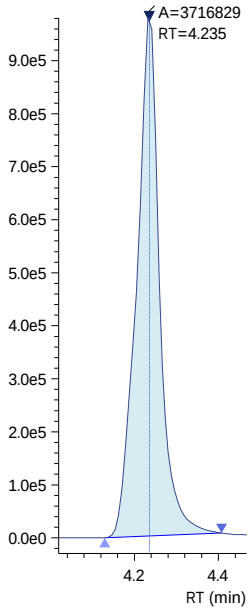
R1 313.00>119.10 (-) 1.12e3



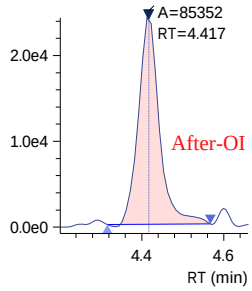
PFHxA-13C
Conc 5.2299
Q 314.90>270.10 (-) 9.81e5



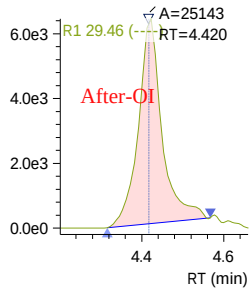
PFHxA-13C_IS
Conc 5.0000
ISTD 314.90>270.10 (-) 9.81e5



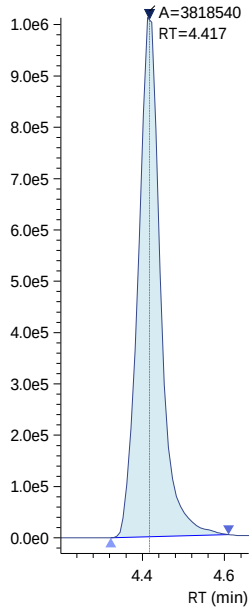
PFHpA
Conc 0.1028
R#1 29.46 (26.04)
Q 362.90>319.00 (-) 2.44e4



R1 362.90>169.00 (-) 6.46e3

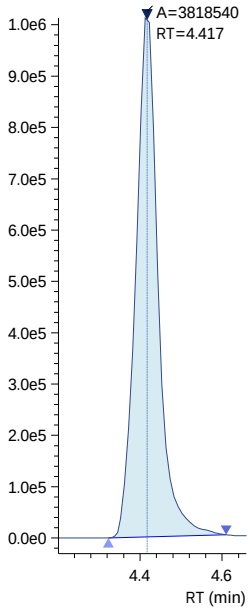


PFHpA-13C
Conc 5.2921
Q 366.90>322.10 (-) 1.01e6

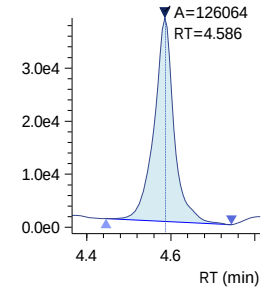


210819_021 (continued)

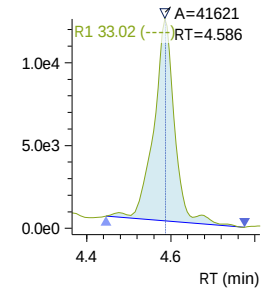
PFHpA-13C_IS
Conc 5.0000
ISTD 366.90>322.10 (-) 1.01e6



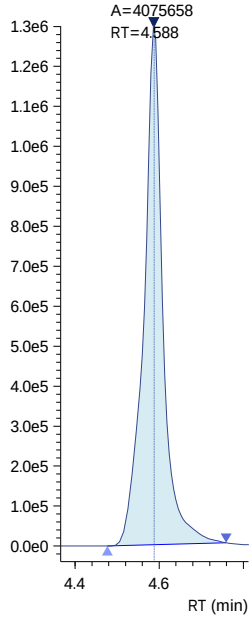
PFOA
Conc 0.1006
R#1 33.02 (30.35)
Q 413.00>369.00 (-) 3.95e4



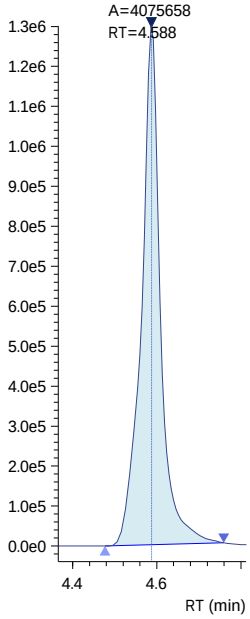
R1 413.00>169.10 (-) 1.26e4



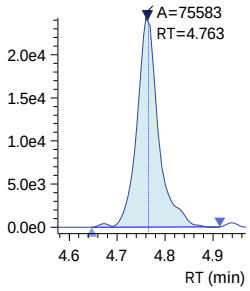
PFOA-13C
Conc 5.0739
Q 416.80>372.05 (-) 1.30e6



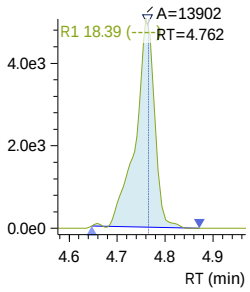
PFOA-13C_IS
Conc 5.0000
ISTD 416.80>372.05 (-) 1.30e6



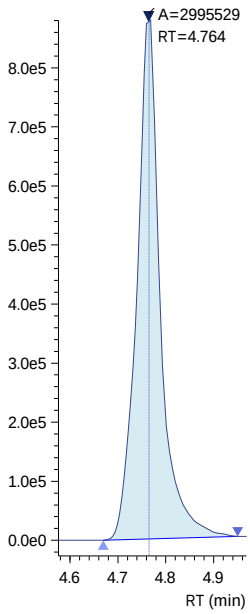
PFNA
Conc 0.1022
R#1 18.39 (22.35)
Q 463.00>418.90 (-) 2.42e4



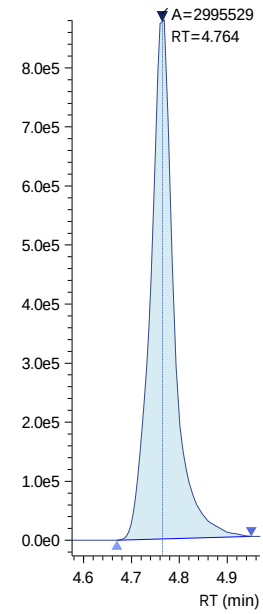
R1 463.00>219.00 (-) 5.08e3



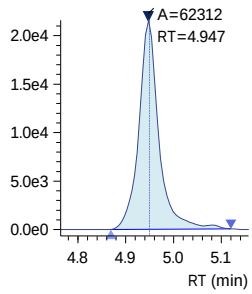
PFNA-13C
Conc 4.8887
Q 467.80>423.00 (-) 8.81e5



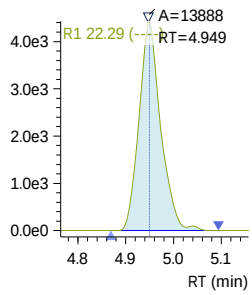
PFNA-13C_IS
Conc 5.0000
ISTD 467.80>423.00 (-) 8.81e5



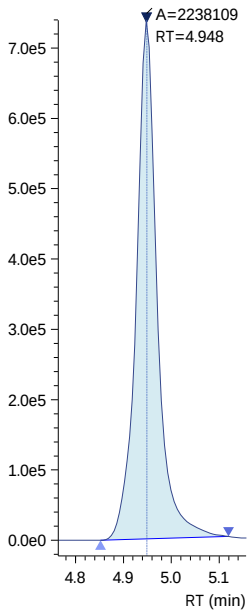
PFDA
Conc 0.0931
R#1 22.29 (18.73)
Q 513.00>468.80 (-) 2.16e4



R1 513.00>219.10 (-) 4.43e3



PFDA-13C
Conc 4.9418
Q 514.80>469.95 (-) 7.40e5



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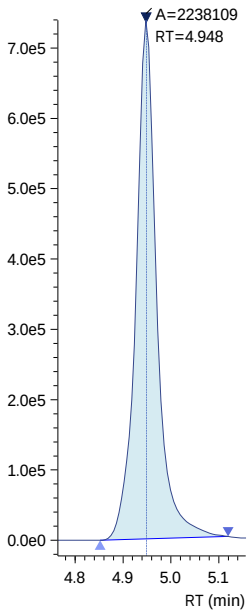
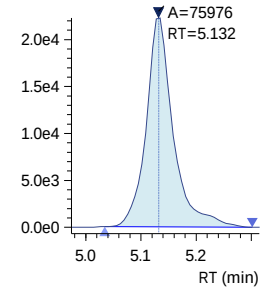
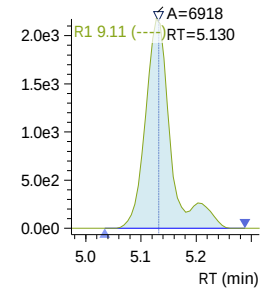
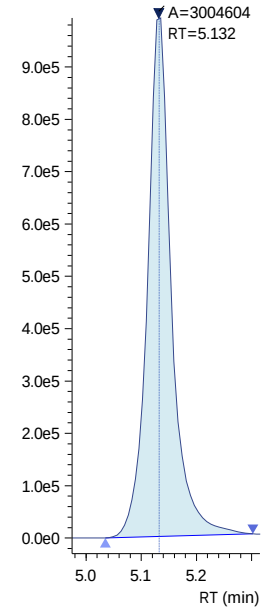
Conc 5.0000
ISTD 514.80>469.95 (-) 7.40e5

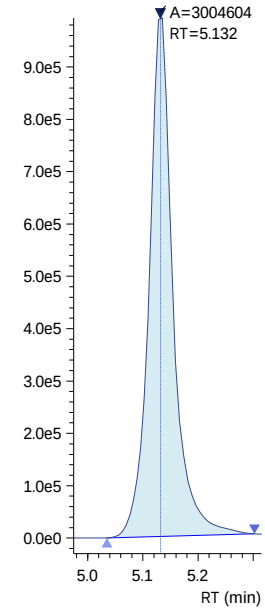


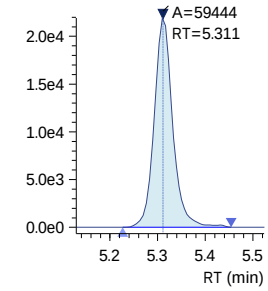
210819_021 (continued)

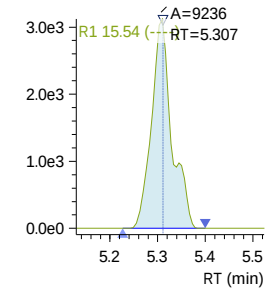
PFUnA
Conc 0.1059
R#1 9.11 (11.60)
Q 563.00>518.90 (-) 2.23e4


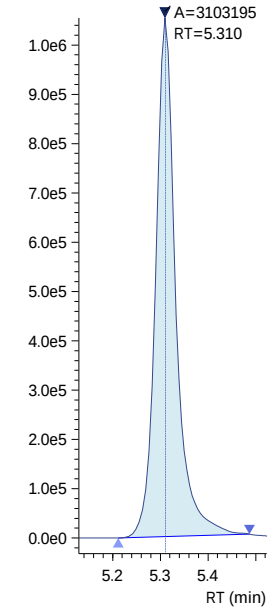
R1 563.00>219.00 (-) 2.17e3


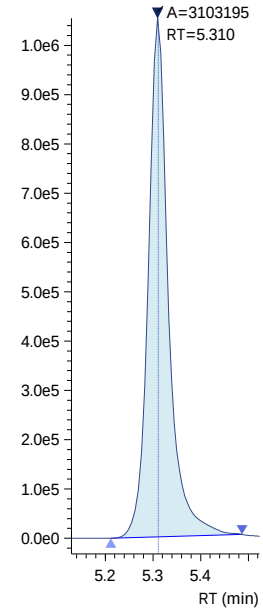
PFUnA-13C
Conc 4.9793
Q 564.80>519.95 (-) 9.94e5


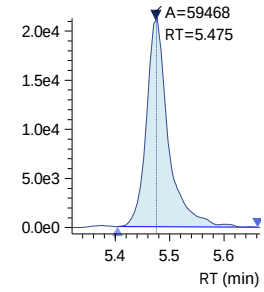
PFUnA-13C_IS
Conc 5.0000
ISTD 564.80>519.95 (-) 9.94e5


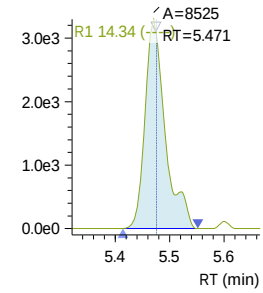
PFDoA
Conc 0.0984
R#1 15.54 (15.11)
Q 613.05>569.00 (-) 2.19e4


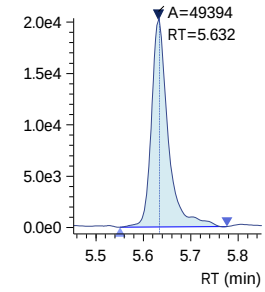
R1 613.05>169.00 (-) 3.12e3


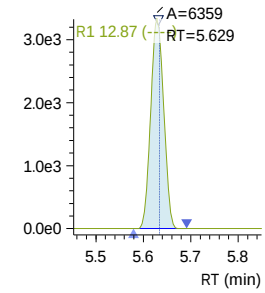
PFDoA-13C
Conc 4.6948
Q 614.80>569.95 (-) 1.05e6


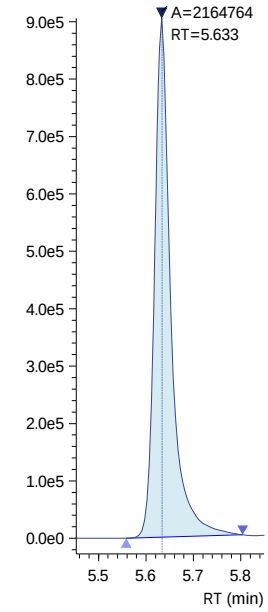
PFDoA-13C_IS
Conc 5.0000
ISTD 614.80>569.95 (-) 1.05e6


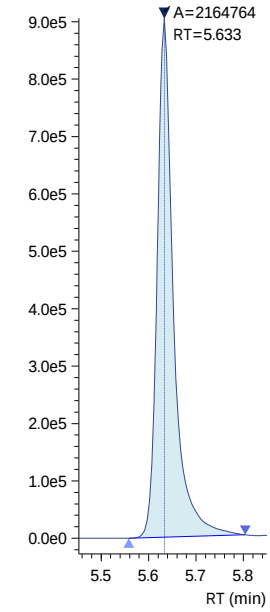
PFTrDA
Conc 0.0925
R#1 14.34 (14.19)
Q 663.00>618.90 (-) 2.13e4


R1 662.90>169.00 (-) 3.30e3


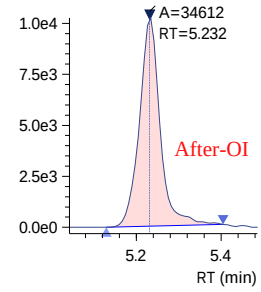
PFTeDA
Conc 0.1015
R#1 12.87 (14.98)
Q 713.00>669.00 (-) 2.04e4


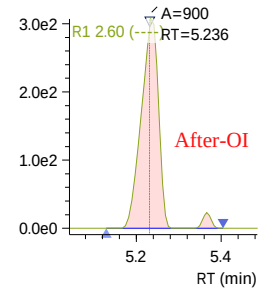
R1 713.00>169.10 (-) 3.33e3


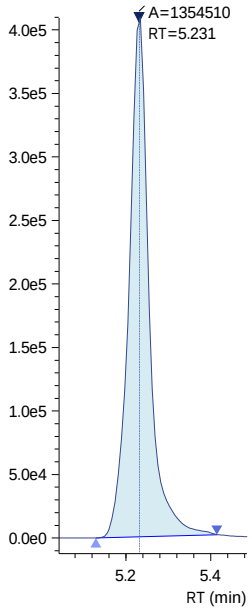
PFTeDA-13C
Conc 4.8395
Q 714.70>669.90 (-) 9.06e5


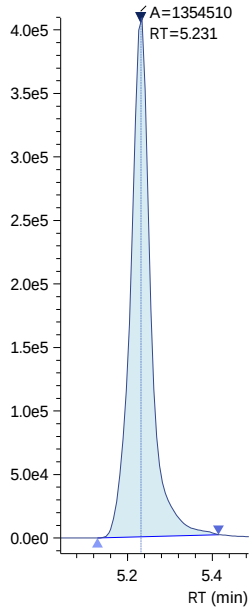
PFTeDA-13C_IS
Conc 5.0000
ISTD 714.70>669.90 (-) 9.06e5


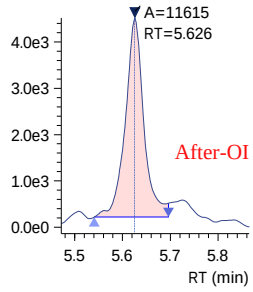
210819_021 (continued)

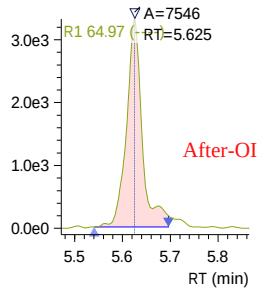
FOSA
Conc 0.1005
R#1 2.60 (4.89)
Q 498.20>78.00 (-) 1.03e4


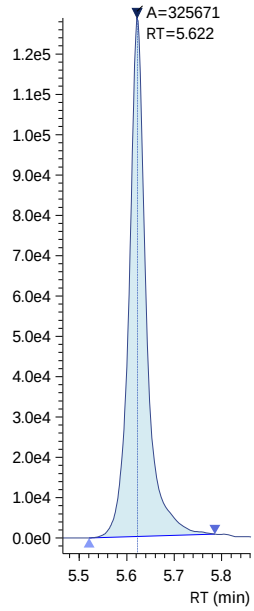
R1 498.20>64.10 (-) 3.07e2


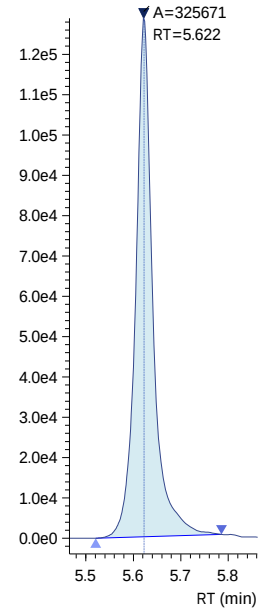
FOSA-13C
Conc 4.7550
Q 506.00>78.05 (-) 4.09e5


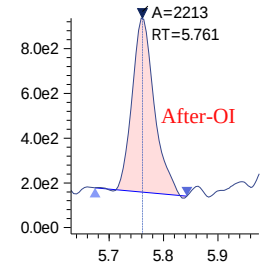
FOSA-13C_IS
Conc 5.0000
ISTD 506.00>78.05 (-) 4.09e5


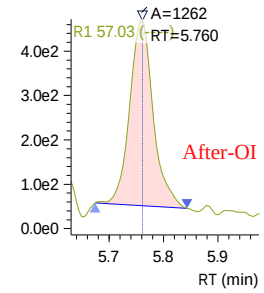
N-MeFOSA
Conc 0.0953
R#1 64.97 (62.72)
Q 512.00>169.10 (-) 4.52e3


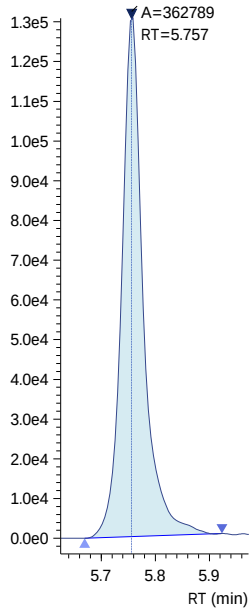
R1 512.00>219.00 (-) 3.33e3


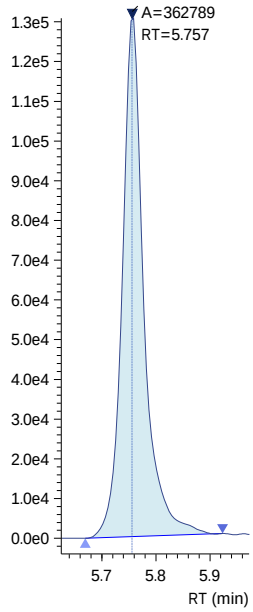
N-MeFOSA-d3
Conc 4.9169
Q 514.90>168.90 (-) 1.29e5


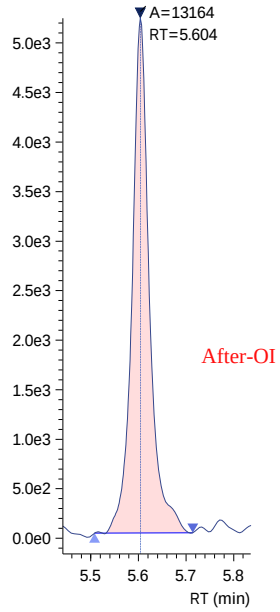
N-MeFOSA-d3_IS
Conc 5.0000
ISTD 514.90>168.90 (-) 1.29e5


N-EtFOSA
Conc 0.0973
R#1 57.03 (63.35)
Q 526.90>169.10 (-) 9.36e2


R1 526.90>219.00 (-) 4.72e2


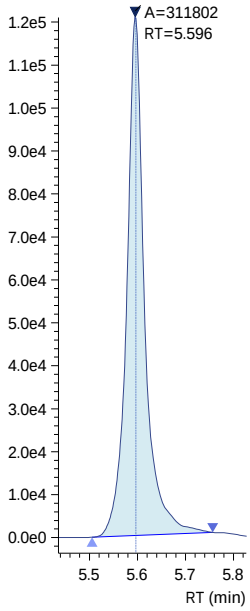
N-EtFOSA-d9
Conc 4.8206
Q 530.90>169.15 (-) 1.31e5


N-EtFOSA-d9_IS
Conc 5.0000
ISTD 530.90>169.15 (-) 1.31e5


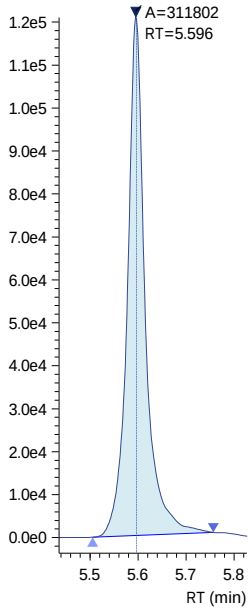
N-MeFOSE
Conc 0.0964
Q 616.00>59.00 (-) 5.25e3


210819_021 (continued)

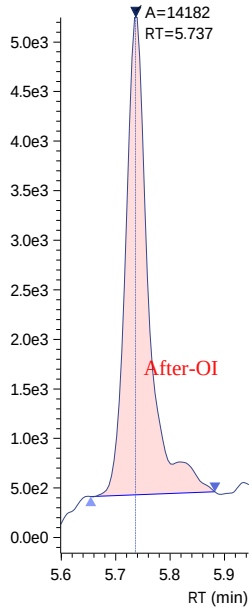
N-MeFOSE-d7
Conc 4.7074
Q 622.70>59.10 (-) 1.21e5



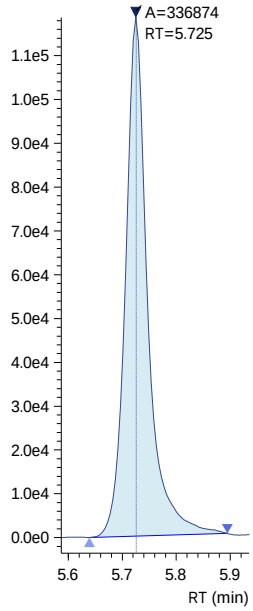
N-MeFOSE-d7_IS
Conc 5.0000
ISTD 622.70>59.10 (-) 1.21e5



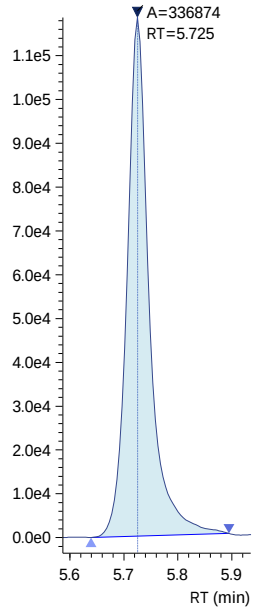
N-EtFOSE
Conc 0.0920
Q 630.00>58.90 (-) 5.25e3



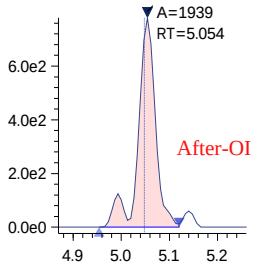
N-EtFOSE-d9
Conc 4.9125
Q 638.70>59.10 (-) 1.19e5



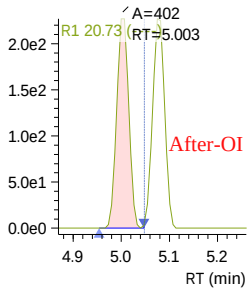
N-EtFOSE-d9_IS
Conc 5.0000
ISTD 638.70>59.10 (-) 1.19e5



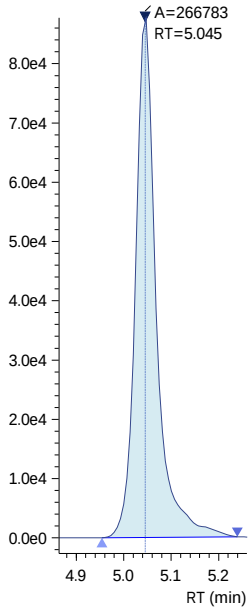
N-MeFOSAA
Conc 0.0870
R#1 20.73 (35.26)
Q 570.20>419.00 (-) 7.80e2



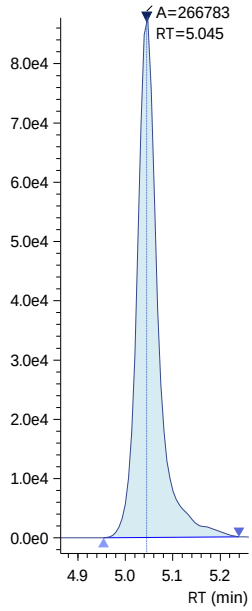
R1 570.20>512.00 (-) 2.27e2



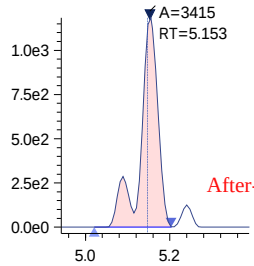
N-MeFOSAA-d3
Conc 4.9385
Q 572.80>419.05 (-) 8.77e4



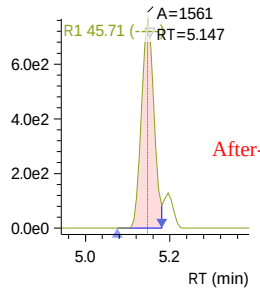
N-MeFOSAA-d3_IS
Conc 5.0000
ISTD 572.80>419.05 (-) 8.77e4



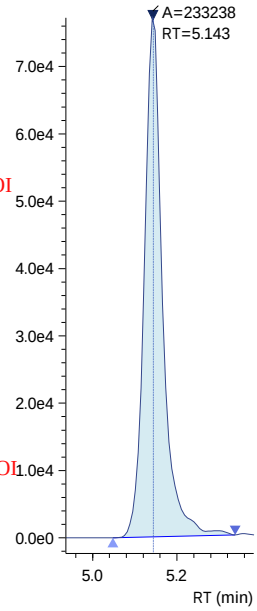
N-EtFOSAA
Conc 0.1118
R#1 45.71 (77.25)
Q 584.20>418.95 (-) 1.18e3



R1 584.20>526.10 (-) 7.66e2

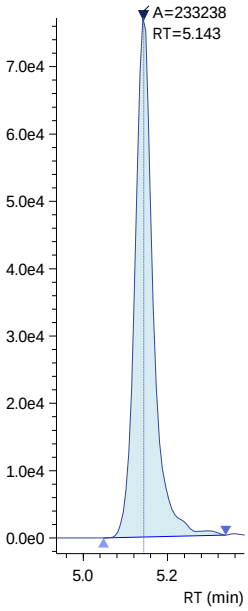


N-EtFOSAA-d5
Conc 4.6378

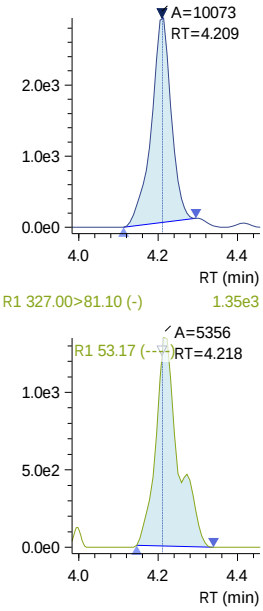


210819_021 (continued)

N-EtFOSAA-d5_IS
Conc 5.0000
ISTD 588.80>419.00 (-) 7.72e4

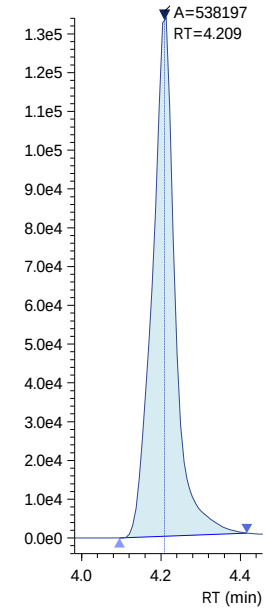


4_2-FTS_1
Conc 0.0934
R#1 53.17 (39.85)
Q 327.00>307.05 (-) 2.94e3

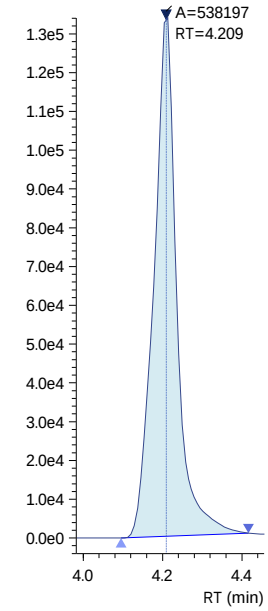


R1 327.00>81.10 (-) 1.35e3

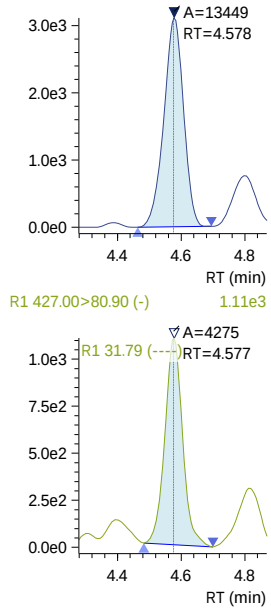
4_2-FTS-13C
Conc 4.8838
Q 328.80>309.05 (-) 1.34e5



4_2-FTS-13C_IS
Conc 5.0000
ISTD 328.80>309.05 (-) 1.34e5

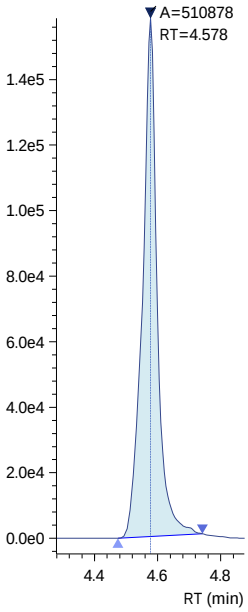


6_2-FTS_1
Conc 0.0946
R#1 31.79 (29.95)
Q 427.00>407.00 (-) 3.11e3

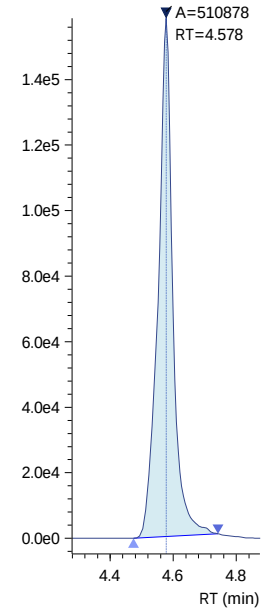


R1 427.00>80.90 (-) 1.11e3

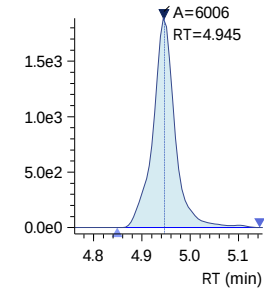
6_2-FTS-13C
Conc 4.9072
Q 428.90>409.00 (-) 1.59e5



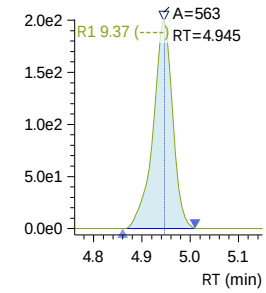
6_2-FTS-13C_IS
Conc 5.0000
ISTD 428.90>409.00 (-) 1.59e5



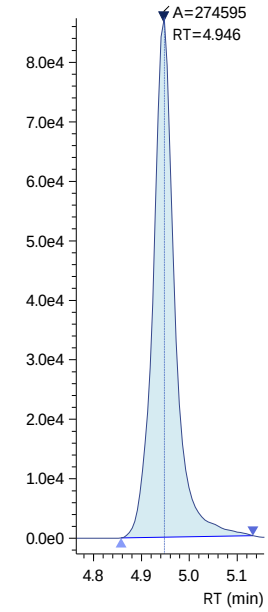
8_2-FTS_1
Conc 0.0940
R#1 9.37 (9.42)
Q 527.10>506.90 (-) 1.89e3



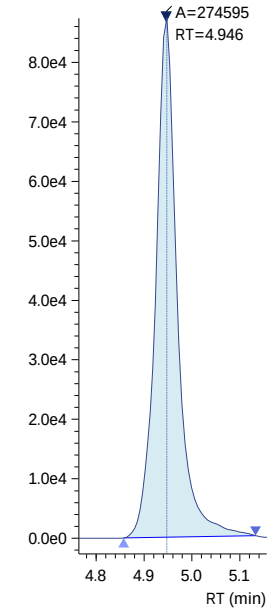
R1 527.20>487.00 (-) 2.01e2



8_2-FTS-13C
Conc 4.9555
Q 528.80>509.00 (-) 8.74e4

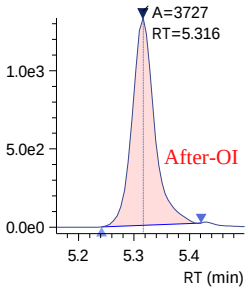


8_2-FTS-13C_IS
Conc 5.0000
ISTD 528.80>509.00 (-) 8.74e4

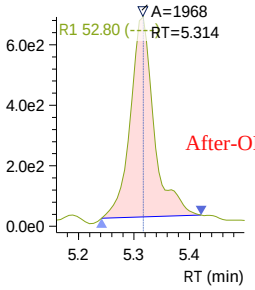


210819_021 (continued)

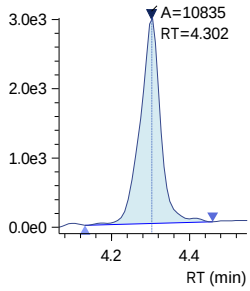
10_2-FtS_1
Conc 0.0844
R#1 52.80 (49.86)
Q 627.00>606.95 (-) 1.34e3



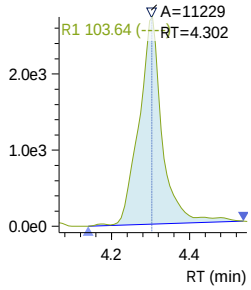
R1 627.00>81.25 (-) 6.92e2



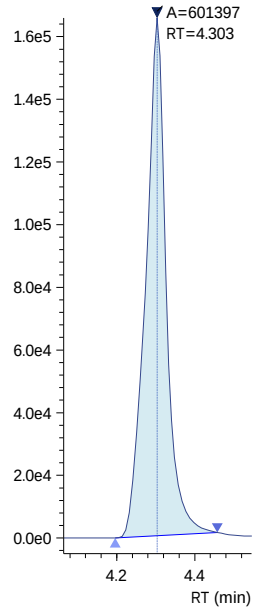
HPFO_DA
Conc 0.0990
R#1 103.64 (101.52)
Q 329.00>169.00 (-) 3.02e3



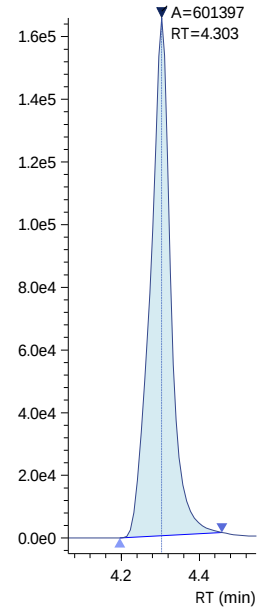
R1 329.00>285.10 (-) 2.75e3



HFPO_DA-13C
Conc 4.8536
Q 332.00>286.80 (-) 1.66e5



HFPO_DA-13C_IS
Conc 5.0000
ISTD 332.00>286.80 (-) 1.66e5



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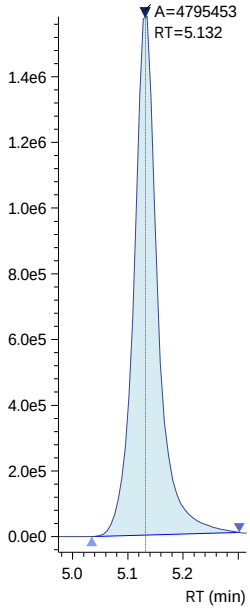
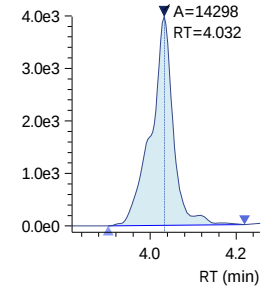
210819_021

Sample ID: PFC ICAL @ 0.10ppb
Date Acquired: 8/19/2021 6:49:51 PM
Acquired by: System Administrator
Data File: 210819_021
Vial: 2 | Inj. Volume: 15.0000uL | Tray: 0

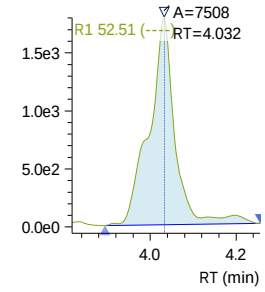
13C7-PFUnDA_IS
Conc 5.0000
ISTD 570.00>525.00 (-) 1.58e6



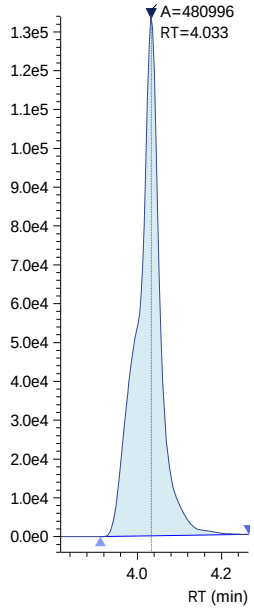
PFBS_1
Conc 0.0814
R#1 52.51 (48.11)
Q 299.00>80.00 (-) 3.99e3



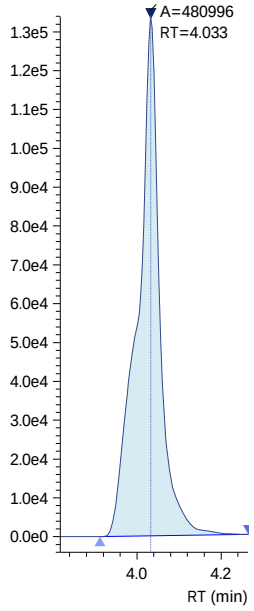
R1 298.80>99.00 (-) 1.80e3



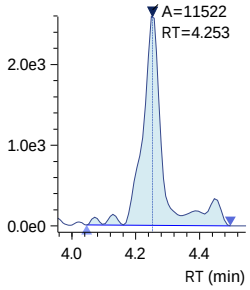
PFBS-13C
Conc 4.8617
Q 301.80>80.00 (-) 1.34e5



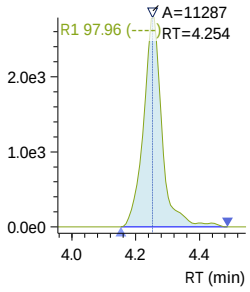
PFBS-13C_IS
Conc 5.0000
ISTD 301.80>80.00 (-) 1.34e5



PFPeS
Conc 0.1184
R#1 97.96 (149.27)
Q 349.00>99.00 (-) 2.59e3

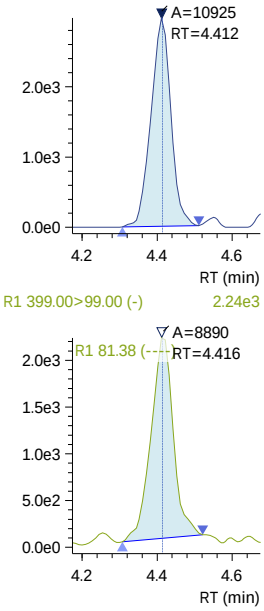


R1 349.00>79.95 (-) 2.79e3

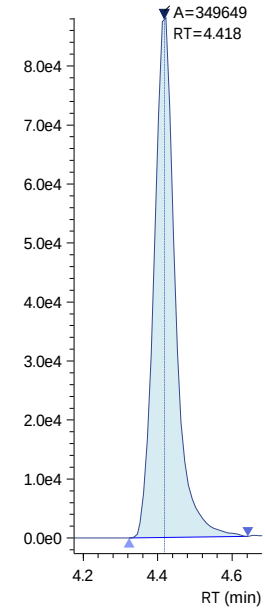


210819_021 (continued)

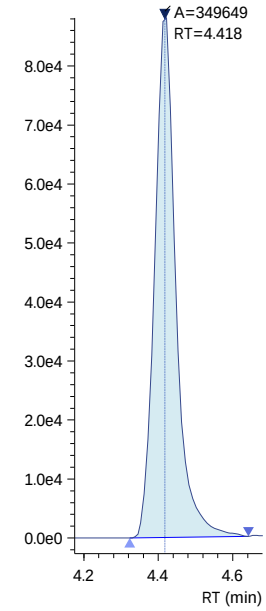
PFHxS_1
Conc 0.0845
R#1 81.38 (83.10)
Q 399.00>80.00 (-) 2.98e3
R1 399.00>99.00 (-) 2.24e3



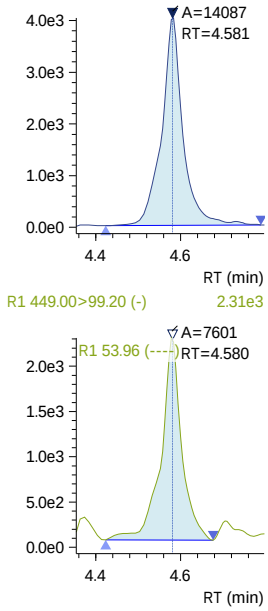
PFHxS-18O
Conc 5.1797
Q 402.70>84.05 (-) 8.81e4



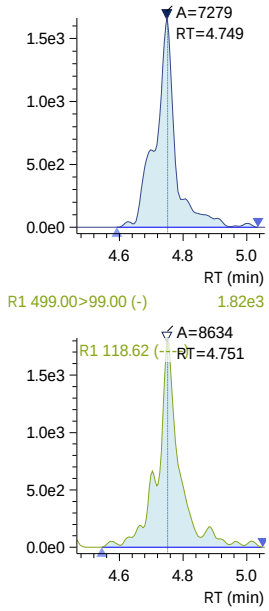
PFHxS-18O_IS
Conc 5.0000
ISTD 402.70>84.05 (-) 8.81e4



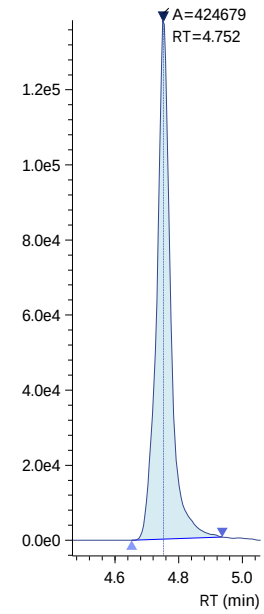
PFHpS_1
Conc 0.0948
R#1 53.96 (58.24)
Q 449.00>80.15 (-) 4.05e3
R1 449.00>99.20 (-) 2.31e3



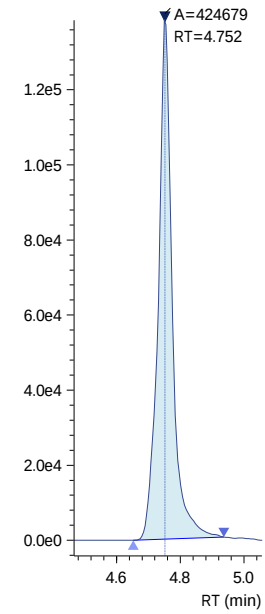
PFOS_1
Conc 0.0887
R#1 118.62 (87.63)
Q 499.00>80.00 (-) 1.66e3
R1 499.00>99.00 (-) 1.82e3



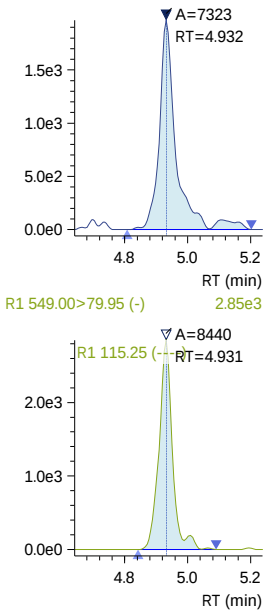
PFOS-13C
Conc 5.0620
Q 502.80>80.05 (-) 1.39e5



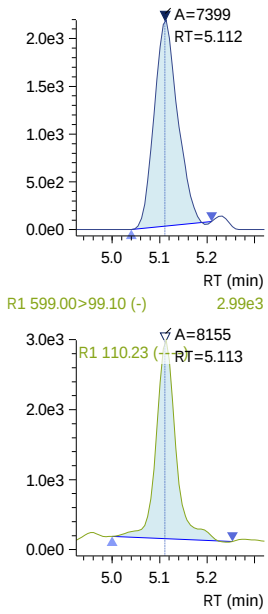
PFOS-13C_IS
Conc 5.0000
ISTD 502.80>80.05 (-) 1.39e5



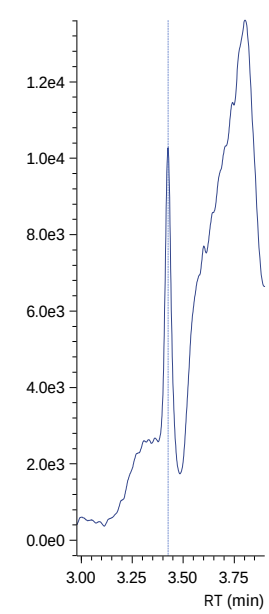
PFNS
Conc 0.0932
R#1 115.25 (137.56)
Q 549.00>99.00 (-) 1.97e3
R1 549.00>79.95 (-) 2.85e3



PFDS_1
Conc 0.0736
R#1 110.23 (101.78)
Q 599.00>79.90 (-) 2.19e3
R1 599.00>99.10 (-) 2.99e3

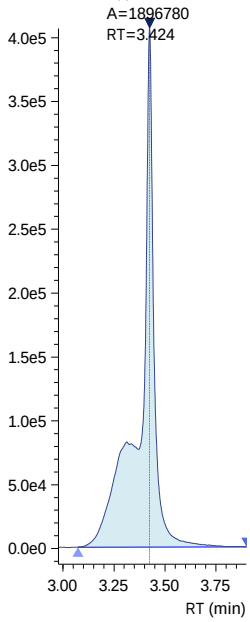


PFBA
Conc ----
Q 213.00>169.10 (-) 1.36e4

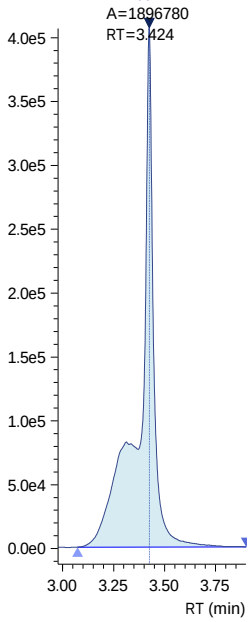


210819_021 (continued)

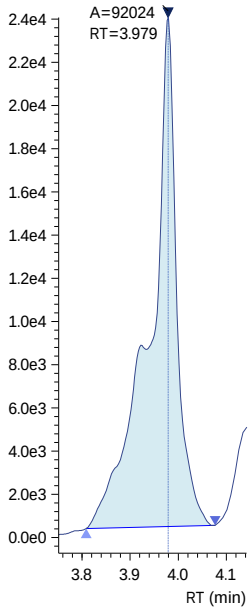
PFBA-13C
Conc 4.8428
Q 216.90>172.15 (-) 4.07e5



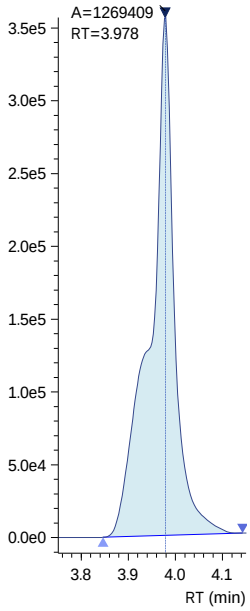
PFBA-13C_IS
Conc 5.0000
ISTD 216.90>172.15 (-) 4.07e5



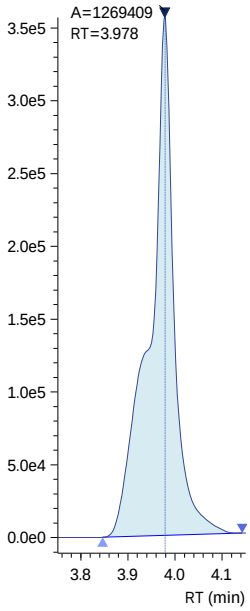
PFPeA
Conc 0.1055
Q 263.05>219.10 (-) 2.41e4



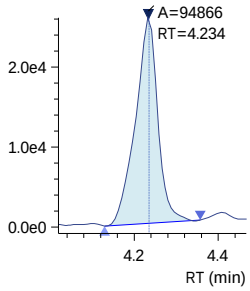
PFPeA-13C
Conc 4.9180
Q 267.90>223.00 (-) 3.57e5



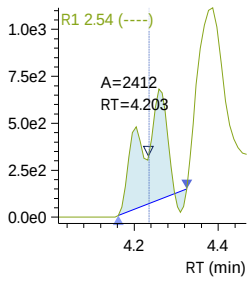
PFPeA-13C_IS
Conc 5.0000
ISTD 267.90>223.00 (-) 3.57e5



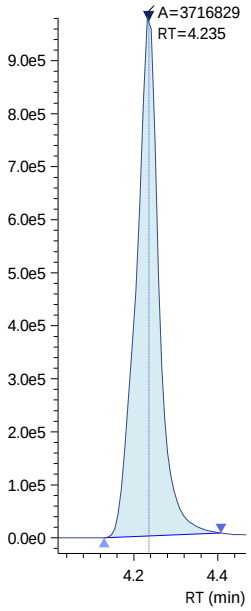
PFHxA
Conc 0.0939
R#1 2.54 (4.21)
Q 313.00>269.00 (-) 2.61e4



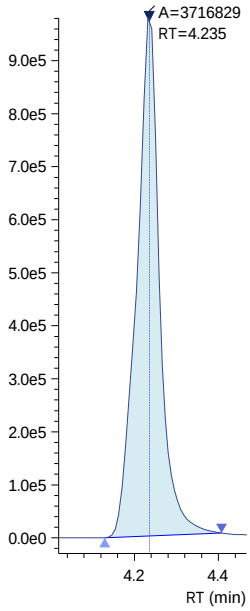
R1 313.00>119.10 (-) 1.12e3



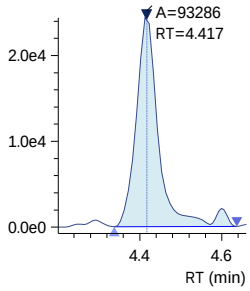
PFHxA-13C
Conc 5.2154
Q 314.90>270.10 (-) 9.81e5



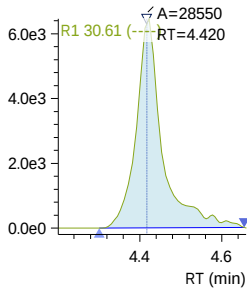
PFHxA-13C_IS
Conc 5.0000
ISTD 314.90>270.10 (-) 9.81e5



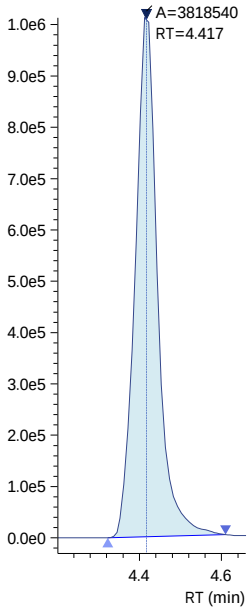
PFHpA
Conc 0.1007
R#1 30.61 (26.69)
Q 362.90>319.00 (-) 2.44e4



R1 362.90>169.00 (-) 6.46e3



PFHpA-13C
Conc 5.2921
Q 366.90>322.10 (-) 1.01e6



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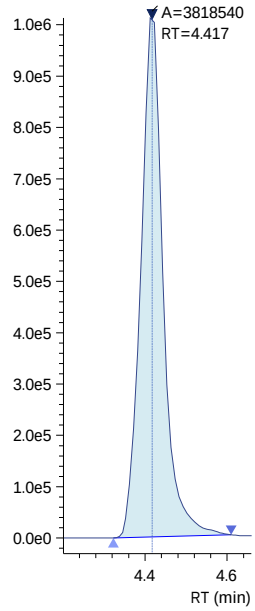
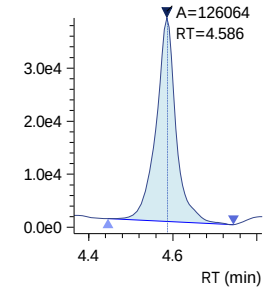
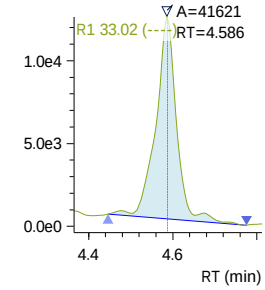
PFHpA-13C_IS
Conc 5.0000
ISTD 366.90>322.10 (-) 1.01e6



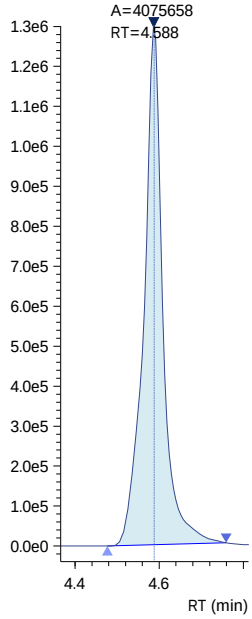
PFOA
Conc 0.0933
R#1 33.02 (31.31)
Q 413.00>369.00 (-) 3.95e4



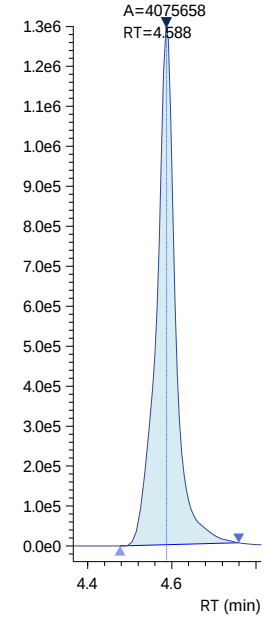
R1 413.00>169.10 (-) 1.26e4



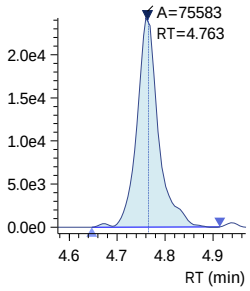
PFOA-13C
Conc 5.0739
Q 416.80>372.05 (-) 1.30e6



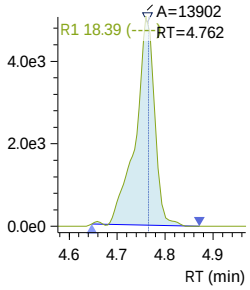
PFOA-13C_IS
Conc 5.0000
ISTD 416.80>372.05 (-) 1.30e6



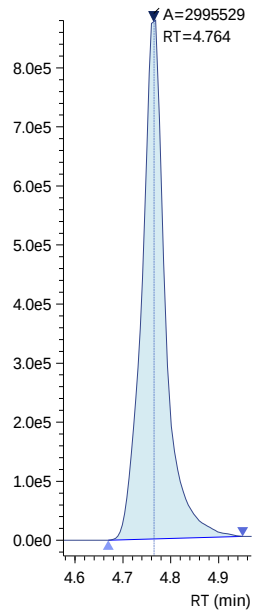
PFNA
Conc 0.1014
R#1 18.39 (20.54)
Q 463.00>418.90 (-) 2.42e4



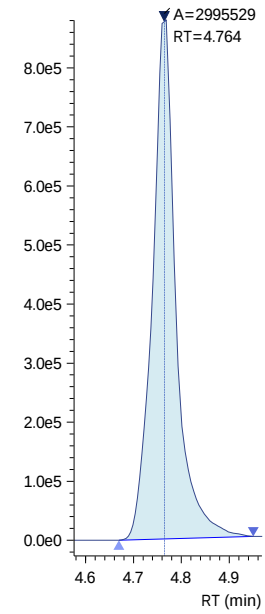
R1 463.00>219.00 (-) 5.08e3



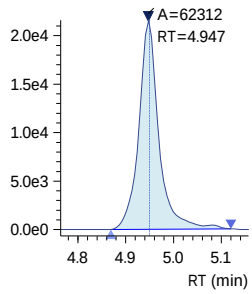
PFNA-13C
Conc 4.8887
Q 467.80>423.00 (-) 8.81e5



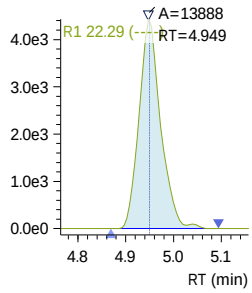
PFNA-13C_IS
Conc 5.0000
ISTD 467.80>423.00 (-) 8.81e5



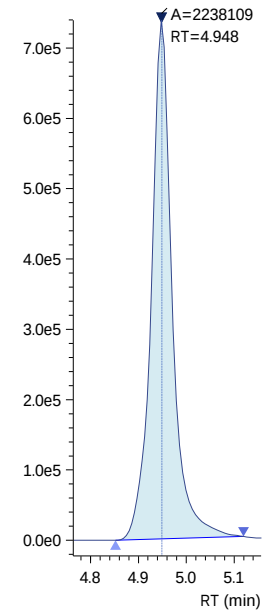
PFDA
Conc 0.0931
R#1 22.29 (20.01)
Q 513.00>468.80 (-) 2.16e4



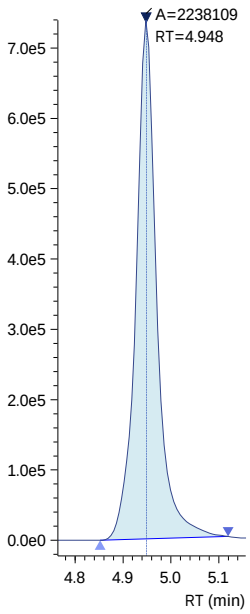
R1 513.00>219.10 (-) 4.43e3



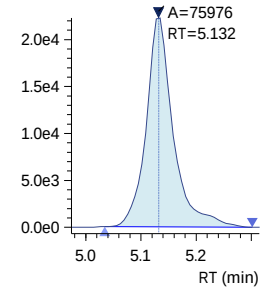
PFDA-13C
Conc 4.9418
Q 514.80>469.95 (-) 7.40e5

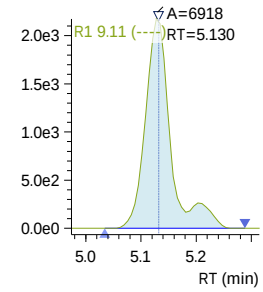


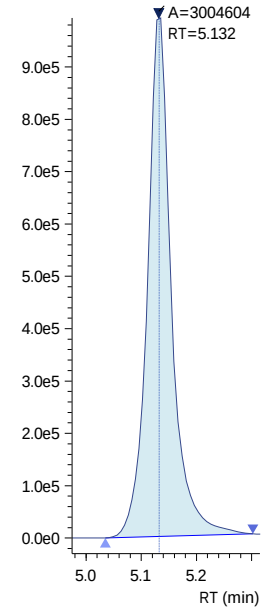
PFDA-13C_IS
Conc 5.0000
ISTD 514.80>469.95 (-) 7.40e5

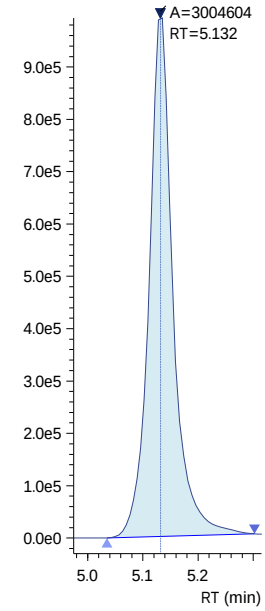


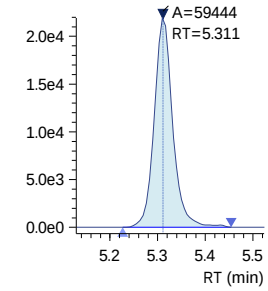
210819_021 (continued)

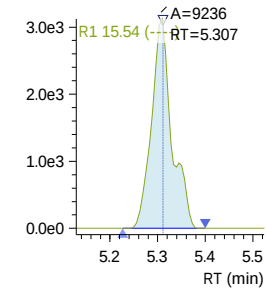
PFUnA
Conc 0.1059
R#1 9.11 (13.39)
Q 563.00>518.90 (-) 2.23e4


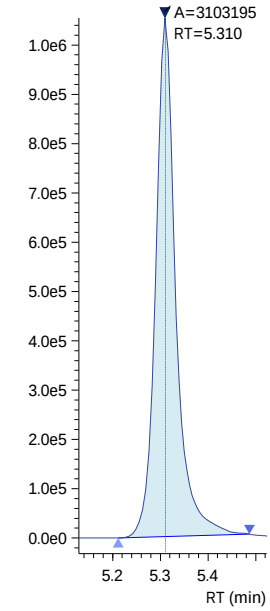
R1 563.00>219.00 (-) 2.17e3


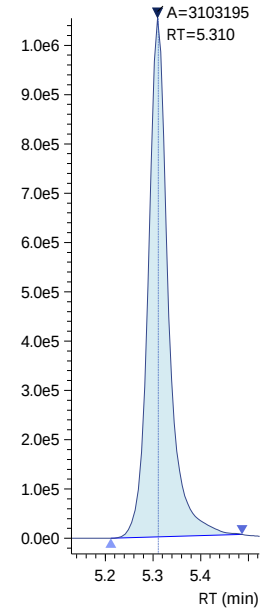
PFUnA-13C
Conc 4.9793
Q 564.80>519.95 (-) 9.94e5


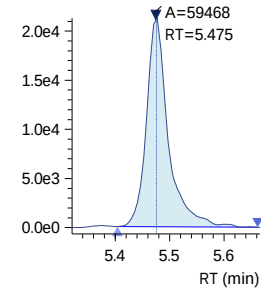
PFUnA-13C_IS
Conc 5.0000
ISTD 564.80>519.95 (-) 9.94e5


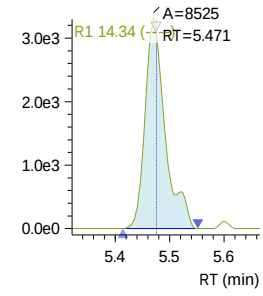
PFDoA
Conc 0.0981
R#1 15.54 (16.84)
Q 613.05>569.00 (-) 2.19e4


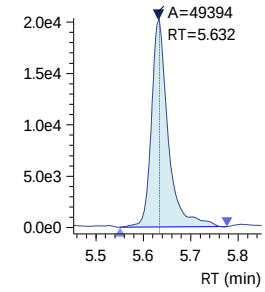
R1 613.05>169.00 (-) 3.12e3


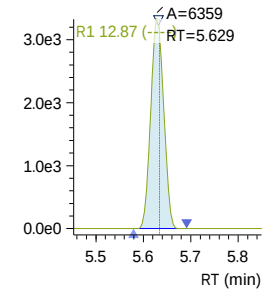
PFDoA-13C
Conc 4.6948
Q 614.80>569.95 (-) 1.05e6


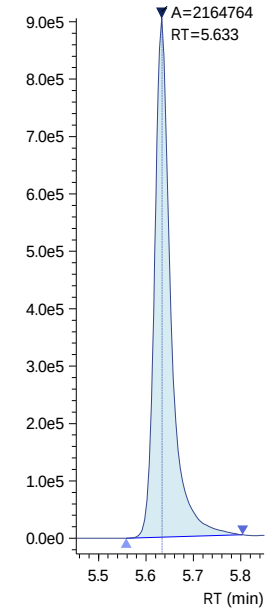
PFDoA-13C_IS
Conc 5.0000
ISTD 614.80>569.95 (-) 1.05e6


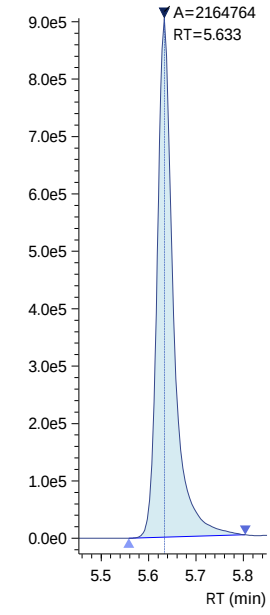
PFTrDA
Conc 0.0925
R#1 14.34 (16.76)
Q 663.00>618.90 (-) 2.13e4


R1 662.90>169.00 (-) 3.30e3


PFTeDA
Conc 0.0997
R#1 12.87 (16.56)
Q 713.00>669.00 (-) 2.04e4


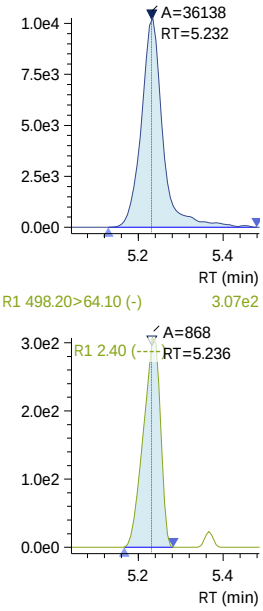
R1 713.00>169.10 (-) 3.33e3


PFTeDA-13C
Conc 4.8395
Q 714.70>669.90 (-) 9.06e5


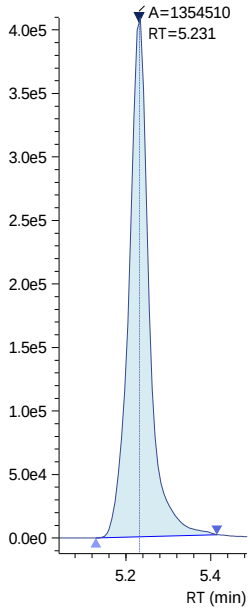
PFTeDA-13C_IS
Conc 5.0000
ISTD 714.70>669.90 (-) 9.06e5


210819_021 (continued)

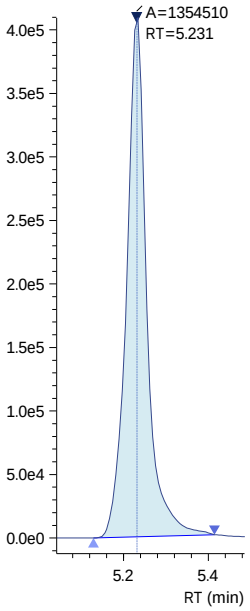
FOSA
Conc 0.1029
R#1 2.40 (4.59)
Q 498.20>78.00 (-) 1.03e4
R1 498.20>64.10 (-) 3.07e2



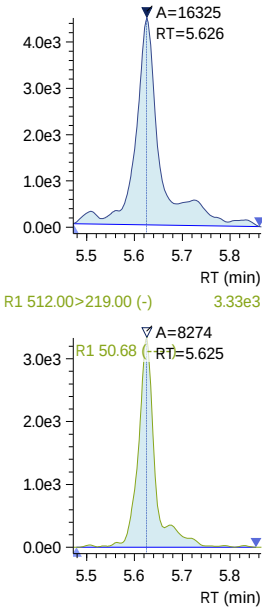
FOSA-13C
Conc 4.7550
Q 506.00>78.05 (-) 4.09e5



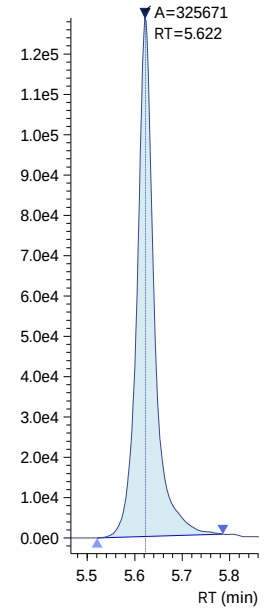
FOSA-13C_IS
Conc 5.0000
ISTD 506.00>78.05 (-) 4.09e5



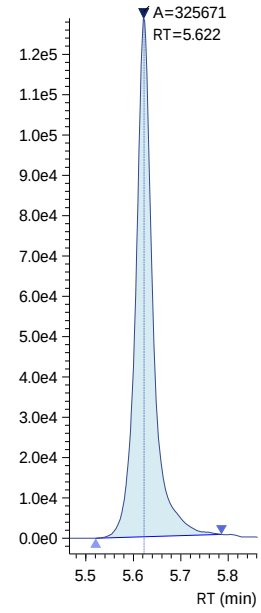
N-MeFOSA
Conc 0.1220
R#1 50.68 (68.73)
Q 512.00>169.10 (-) 4.52e3
R1 512.00>219.00 (-) 3.33e3



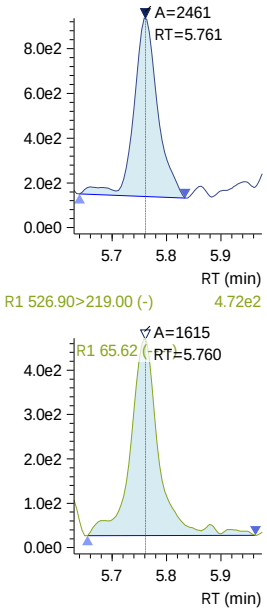
N-MeFOSA-d3
Conc 4.9169
Q 514.90>168.90 (-) 1.29e5



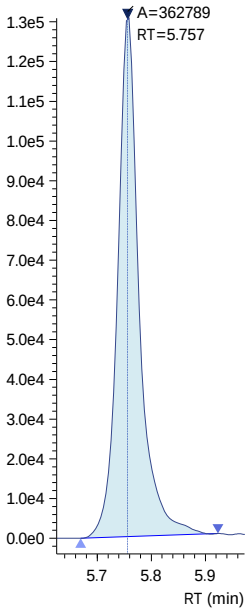
N-MeFOSA-d3_IS
Conc 5.0000
ISTD 514.90>168.90 (-) 1.29e5



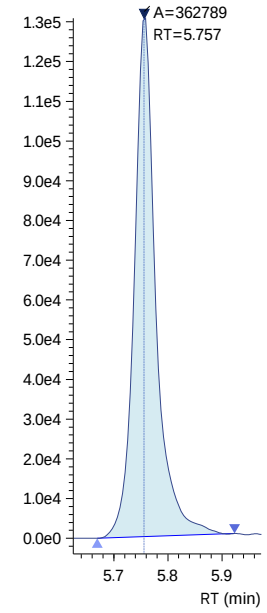
N-EtFOSA
Conc 0.0937
R#1 65.62 (62.10)
Q 526.90>169.10 (-) 9.36e2
R1 526.90>219.00 (-) 4.72e2



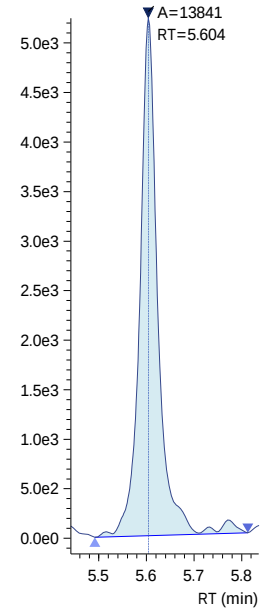
N-EtFOSA-d9
Conc 4.8206
Q 530.90>169.15 (-) 1.31e5



N-EtFOSA-d9_IS
Conc 5.0000
ISTD 530.90>169.15 (-) 1.31e5

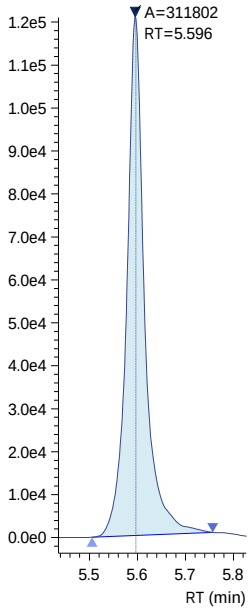


N-MeFOSE
Conc 0.0991
Q 616.00>59.00 (-) 5.25e3

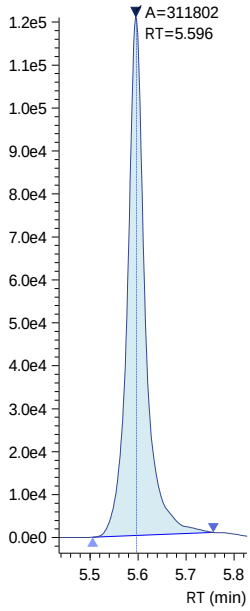


210819_021 (continued)

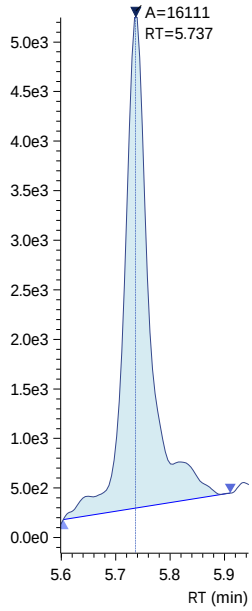
N-MeFOSE-d7
Conc 4.7074
Q 622.70>59.10 (-) 1.21e5



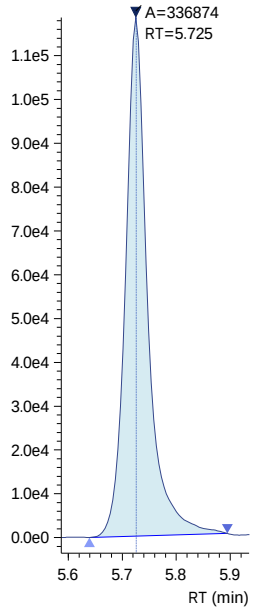
N-MeFOSE-d7_IS
Conc 5.0000
ISTD 622.70>59.10 (-) 1.21e5



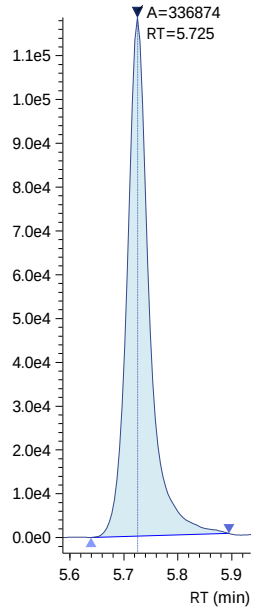
N-EtFOSE
Conc 0.1017
Q 630.00>58.90 (-) 5.25e3



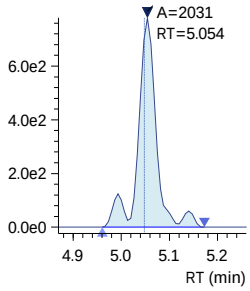
N-EtFOSE-d9
Conc 4.9125
Q 638.70>59.10 (-) 1.19e5



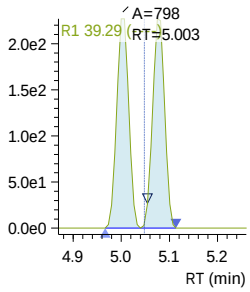
N-EtFOSE-d9_IS
Conc 5.0000
ISTD 638.70>59.10 (-) 1.19e5



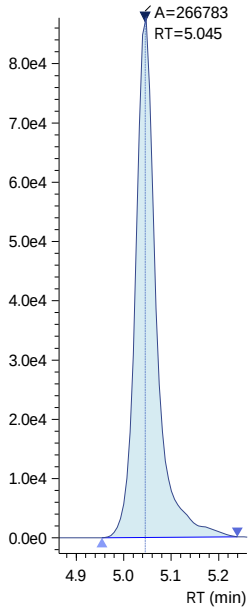
N-MeFOSAA
Conc 0.0539
R#1 39.29 (52.81)
Q 570.20>419.00 (-) 7.80e2



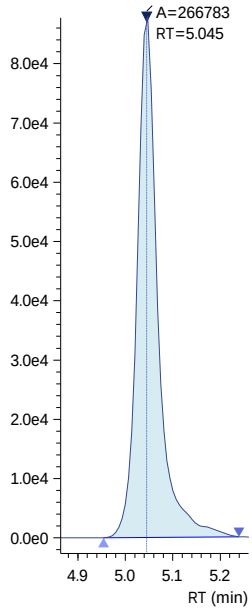
R1 570.20>512.00 (-) 2.27e2



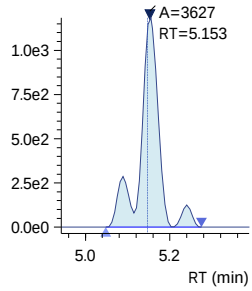
N-MeFOSAA-d3
Conc 4.9296
Q 572.80>419.05 (-) 8.77e4



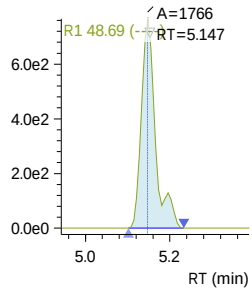
N-MeFOSAA-d3_IS
Conc 5.0000
ISTD 572.80>419.05 (-) 8.77e4



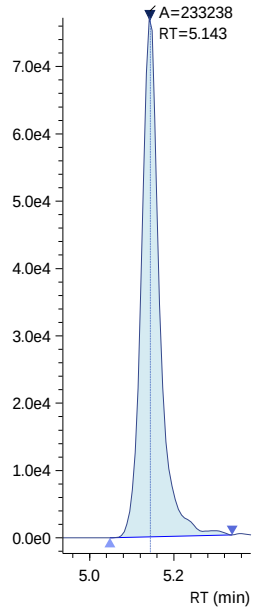
N-EtFOSAA
Conc 0.1192
R#1 48.69 (86.68)
Q 584.20>418.95 (-) 1.18e3



R1 584.20>526.10 (-) 7.66e2

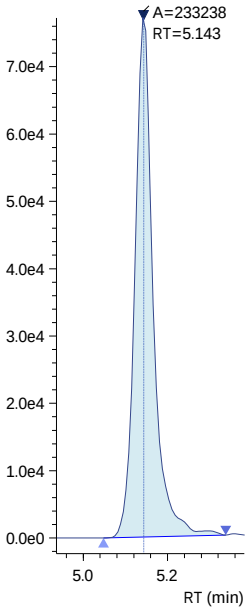


N-EtFOSAA-d5
Conc 4.6101
Q 588.80>419.00 (-) 7.72e4

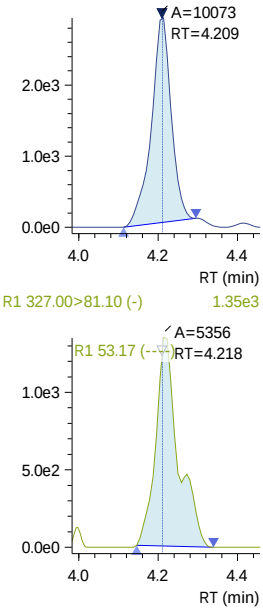


210819_021 (continued)

N-EtFOSAA-d5_IS
Conc 5.0000
ISTD 588.80>419.00 (-) 7.72e4

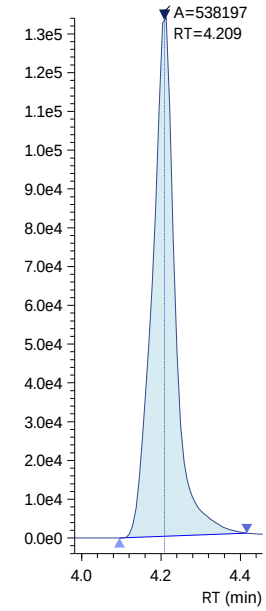


4_2-FTS_1
Conc 0.0934
R#1 53.17 (33.17)
Q 327.00>307.05 (-) 2.94e3

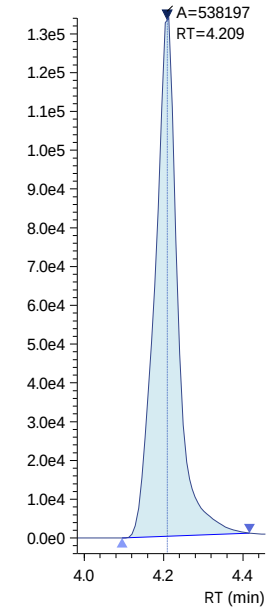


R1 327.00>81.10 (-) 1.35e3

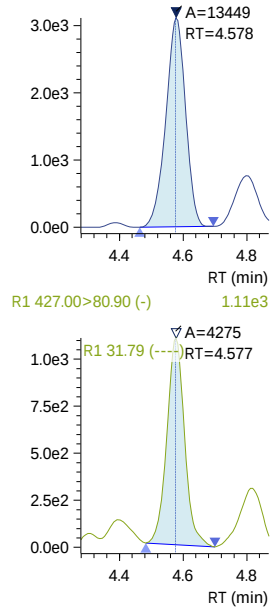
4_2-FTS-13C
Conc 4.8838
Q 328.80>309.05 (-) 1.34e5



4_2-FTS-13C_IS
Conc 5.0000
ISTD 328.80>309.05 (-) 1.34e5

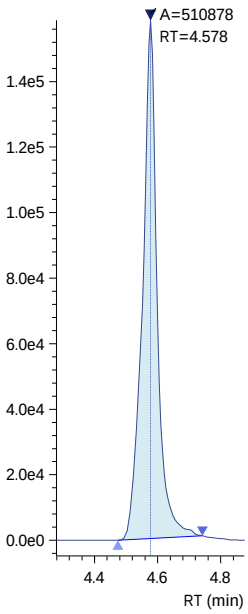


6_2-FTS_1
Conc 0.0931
R#1 31.79 (31.24)
Q 427.00>407.00 (-) 3.11e3

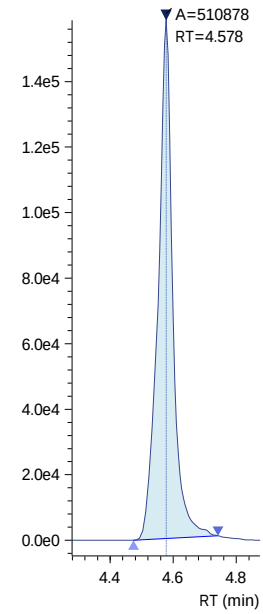


R1 427.00>80.90 (-) 1.11e3

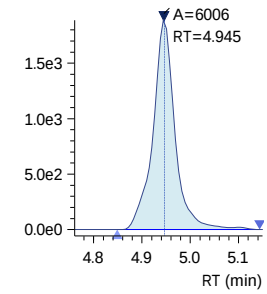
6_2-FTS-13C
Conc 4.9072
Q 428.90>409.00 (-) 1.59e5



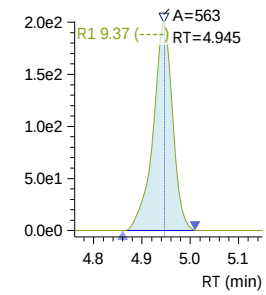
6_2-FTS-13C_IS
Conc 5.0000
ISTD 428.90>409.00 (-) 1.59e5



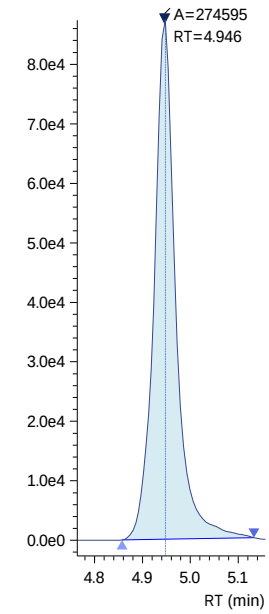
8_2-FTS_1
Conc 0.0940
R#1 9.37 (9.11)
Q 527.10>506.90 (-) 1.89e3



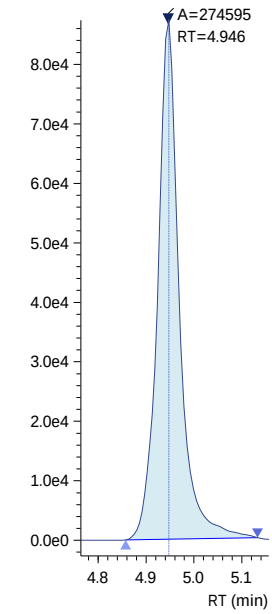
R1 527.20>487.00 (-) 2.01e2



8_2-FTS-13C
Conc 4.9555
Q 528.80>509.00 (-) 8.74e4

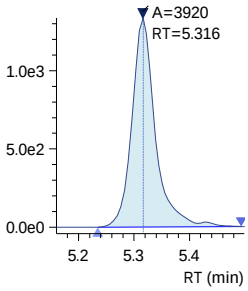


8_2-FTS-13C_IS
Conc 5.0000
ISTD 528.80>509.00 (-) 8.74e4

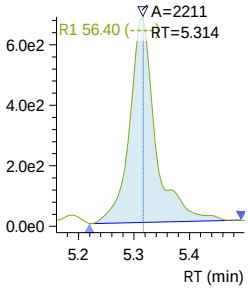


210819_021 (continued)

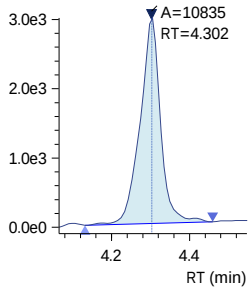
10_2-FtS_1
Conc 0.0882
R#1 56.40 (50.91)
Q 627.00>606.95 (-) 1.34e3



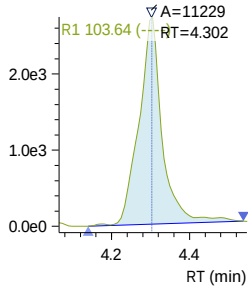
R1 627.00>81.25 (-) 6.92e2



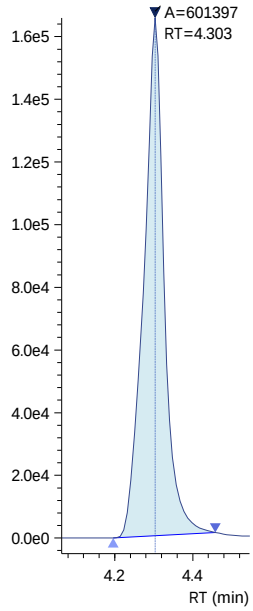
HPFO_DA
Conc 0.0973
R#1 103.64 (109.48)
Q 329.00>169.00 (-) 3.02e3



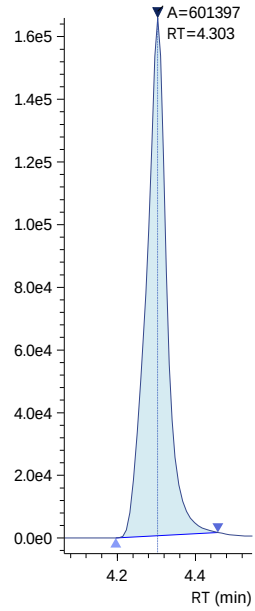
R1 329.00>285.10 (-) 2.75e3



HFPO_DA-13C
Conc 4.8536
Q 332.00>286.80 (-) 1.66e5



HFPO_DA-13C_IS
Conc 5.0000
ISTD 332.00>286.80 (-) 1.66e5



Insight Report
Retention Time/Signal:Noise Ratio Confirmation
Printed 8/20/2021 11:18:22

210819_022

Sample ID: PFC ICAL @ 0.50ppb
Date Acquired: 8/19/2021 7:00:19 PM
Acquired by: System Administrator
Data File: 210819_022
Vial: 3 | Inj. Volume: 15.0000uL | Tray: 0

Name	m/z	Ref 1 m/z	Found RT	RT Diff	ISTD RT Diff	S/N	Ref 1 S/N	Flag ID
13C7-PFUnDA_IS	570.00>525.00	----	5.135	0.003	----	16759	----	
PFBS_1	299.00>80.00	298.80>99.00	4.036	0.003	0.001	712	1765	
PFBS-13C	301.80>80.00	----	4.035	0.002	-1.100	(INF)	----	
PFBS-13C_IS	301.80>80.00	----	4.035	0.002	----	(INF)	----	
PFPeS	349.00>99.00	349.00>79.95	4.254	0.001	0.219	636	(INF)	
PFHxS_1	399.00>80.00	399.00>99.00	4.417	0.003	-0.003	(INF)	263	
PFHxS-18O	402.70>84.05	----	4.420	0.002	-0.715	(INF)	----	
PFHxS-18O_IS	402.70>84.05	----	4.420	0.002	----	(INF)	----	
PFHpS_1	449.00>80.15	449.00>99.20	4.584	0.003	0.164	1603	815	
PFOS_1	499.00>80.00	499.00>99.00	4.755	0.003	0.000	12898	308	
PFOS-13C	502.80>80.05	----	4.755	0.003	-0.380	(INF)	----	
PFOS-13C_IS	502.80>80.05	----	4.755	0.003	----	(INF)	----	
PFNS	549.00>99.00	549.00>79.95	4.936	0.003	0.181	277	(INF)	
PFDS_1	599.00>79.90	599.00>99.10	5.113	0.002	0.358	(INF)	771	
PFBA	213.00>169.10	----	3.429	0.003	0.001	27	----	
PFBA-13C	216.90>172.15	----	3.428	0.003	-1.707	13060	----	
PFBA-13C_IS	216.90>172.15	----	3.428	0.003	----	13060	----	
PFPeA	263.05>219.10	----	3.981	0.002	0.000	987	----	
PFPeA-13C	267.90>223.00	----	3.981	0.002	-1.154	13345	----	
PFPeA-13C_IS	267.90>223.00	----	3.981	0.002	----	13345	----	
PFHxA	313.00>269.00	313.00>119.10	4.238	0.002	0.000	1613	(INF)	
PFHxA-13C	314.90>270.10	----	4.238	0.002	-0.897	26743	----	
PFHxA-13C_IS	314.90>270.10	----	4.238	0.002	----	26743	----	
PFHpA	362.90>319.00	362.90>169.00	4.421	0.004	0.002	924	5136	
PFHpA-13C	366.90>322.10	----	4.419	0.002	-0.716	44277	----	
PFHpA-13C_IS	366.90>322.10	----	4.419	0.002	----	44277	----	
PFOA	413.00>369.00	413.00>169.10	4.590	0.002	0.000	411	242	
PFOA-13C	416.80>372.05	----	4.590	0.002	-0.545	62487	----	
PFOA-13C_IS	416.80>372.05	----	4.590	0.002	----	62487	----	
PFNA	463.00>418.90	463.00>219.00	4.766	0.001	0.000	1658	1403	
PFNA-13C	467.80>423.00	----	4.766	0.001	-0.369	30261	----	
PFNA-13C_IS	467.80>423.00	----	4.766	0.001	----	30261	----	
PFDA	513.00>468.80	513.00>219.10	4.951	0.002	0.000	7063	(INF)	
PFDA-13C	514.80>469.95	----	4.951	0.002	-0.184	13788	----	
PFDA-13C_IS	514.80>469.95	----	4.951	0.002	----	13788	----	
PFUnA	563.00>518.90	563.00>219.00	5.136	0.003	0.001	5472	(INF)	
PFUnA-13C	564.80>519.95	----	5.135	0.003	0.000	12398	----	
PFUnA-13C_IS	564.80>519.95	----	5.135	0.003	----	12398	----	
PFDoA	613.05>569.00	613.05>169.00	5.313	0.002	0.000	(INF)	(INF)	
PFDoA-13C	614.80>569.95	----	5.313	0.002	0.178	25523	----	
PFDoA-13C_IS	614.80>569.95	----	5.313	0.002	----	25523	----	
PFTrDA	663.00>618.90	662.90>169.00	5.478	0.002	-0.157	(INF)	(INF)	
PFTeDA	713.00>669.00	713.00>169.10	5.635	0.001	0.000	1795	(INF)	
PFTeDA-13C	714.70>669.90	----	5.635	0.001	0.500	16506	----	
PFTeDA-13C_IS	714.70>669.90	----	5.635	0.001	----	15309	----	
FOSA	498.20>78.00	498.20>64.10	5.234	0.003	0.000	(INF)	3871	
FOSA-13C	506.00>78.05	----	5.234	0.003	0.099	785	----	
FOSA-13C_IS	506.00>78.05	----	5.234	0.003	----	785	----	
N-MeFOSA	512.00>169.10	512.00>219.00	5.626	0.001	0.002	140	205	
N-MeFOSA-d3	514.90>168.90	----	5.624	0.002	0.489	1867	----	
N-MeFOSA-d3_IS	514.90>168.90	----	5.624	0.002	----	1867	----	

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SN - Software-calculated S/N ratio outside criteria due to non-target peaks or drift in noise calculation window. Analyst review of noise levels (excluding non-target peaks) in chromatogram indicates S/N ratio meets criteria.

210819_022 (continued)

(Table continued from previous page)

Name	m/z	Ref 1 m/z	Found RT	RT Diff	ISTD RT Diff	S/N	Ref 1 S/N	Flag ID
N-EtFOSA	526.90>169.10	526.90>219.00	5.763	0.002	0.005	340	215	
N-EtFOSA-d9	530.90>169.15	----	5.758	0.002	0.623	(INF)	----	
N-EtFOSA-d9_IS	530.90>169.15	----	5.758	0.002	----	(INF)	----	
N-MeFOSE	616.00>59.00	----	5.606	0.001	0.008	(INF)	----	
N-MeFOSE-d7	622.70>59.10	----	5.598	0.001	0.463	1319	----	
N-MeFOSE-d7_IS	622.70>59.10	----	5.598	0.001	----	1319	----	
N-EtFOSE	630.00>58.90	----	5.738	0.002	0.011	(INF)	----	
N-EtFOSE-d9	638.70>59.10	----	5.727	0.001	0.592	(INF)	----	
N-EtFOSE-d9_IS	638.70>59.10	----	5.727	0.001	----	(INF)	----	
N-MeFOSAA	570.20>419.00	570.20>512.00	5.050	0.002	0.002	(INF)	(INF)	
N-MeFOSAA-d3	572.80>419.05	----	5.048	0.003	-0.087	(INF)	----	
N-MeFOSAA-d3_IS	572.80>419.05	----	5.048	0.003	----	(INF)	----	
N-EtFOSAA	584.20>418.95	584.20>526.10	5.149	0.001	0.003	(INF)	(INF)	
N-EtFOSAA-d5	588.80>419.00	----	5.146	0.002	0.011	15773	----	
N-EtFOSAA-d5_IS	588.80>419.00	----	5.146	0.002	----	15773	----	
4_2-FTS_1	327.00>307.05	327.00>81.10	4.211	0.001	-0.002	(INF)	281	
4_2-FTS-13C	328.80>309.05	----	4.213	0.003	-0.922	(INF)	----	
4_2-FTS-13C_IS	328.80>309.05	----	4.213	0.003	----	(INF)	----	
6_2-FTS_1	427.00>407.00	427.00>80.90	4.579	0.003	-0.001	76905	163	
6_2-FTS-13C	428.90>409.00	----	4.580	0.002	-0.555	(INF)	----	
6_2-FTS-13C_IS	428.90>409.00	----	4.580	0.002	----	(INF)	----	
8_2-FTS_1	527.10>506.90	527.20>487.00	4.949	0.002	0.000	10366	(INF)	
8_2-FTS-13C	528.80>509.00	----	4.949	0.002	-0.186	28758	----	
8_2-FTS-13C_IS	528.80>509.00	----	4.949	0.002	----	28758	----	
10_2-FtS_1	627.00>606.95	627.00>81.25	5.319	0.002	0.370	(INF)	234	
HPFO_DA	329.00>169.00	329.00>285.10	4.306	0.003	0.000	587	869	
HFPO_DA-13C	332.00>286.80	----	4.306	0.002	-0.829	14748	----	
HFPO_DA-13C_IS	332.00>286.80	----	4.306	0.002	----	14748	----	

SN - Software-calculated S/N ratio outside criteria due to non-target peaks or drift in noise calculation window. Analyst review of noise levels (excluding non-target peaks) in chromatogram indicates S/N ratio meets criteria.

Insight Report
Ion Ratio Confirmation
Printed 8/20/2021 11:19:20

210819_022

Sample ID: PFC ICAL @ 0.50ppb
Date Acquired: 8/19/2021 7:00:19 PM
Acquired by: System Administrator
Data File: 210819_022
Vial: 3 | Inj. Volume: 15.0000uL | Tray: 0

Name	m/z	Ref 1 m/z	Area	Ref 1 Measured	Ref 1 Actual Ratio	Ref 1 Set Ratio	Comment 1	Flag ID
13C7-PFUnDA_IS	570.00>525.00	----	4590715	----	----	----		
PFBS_1	299.00>80.00	298.80>99.00	74114	35429	47.80	47.76	23.88-71.64	
PFBS-13C	301.80>80.00	----	493868	----	----	----	0-0	
PFBS-13C_IS	301.80>80.00	----	493868	----	----	----	0-0	
PFPeS	349.00>99.00	349.00>79.95	42253	59490	140.79	136.08	68.04 -204.13	
PFHxS_1	399.00>80.00	399.00>99.00	43950	32966	75.01	71.26	35.63 -106.89	
PFHxS-18O	402.70>84.05	----	309730	----	----	----	0-0	
PFHxS-18O_IS	402.70>84.05	----	309730	----	----	----	0-0	
PFHpS_1	449.00>80.15	449.00>99.20	59531	33041	55.50	53.84	26.92-80.76	
PFOS_1	499.00>80.00	499.00>99.00	34407	26309	76.46	86.72	43.36 -130.08	
PFOS-13C	502.80>80.05	----	403936	----	----	----	0-0	
PFOS-13C_IS	502.80>80.05	----	403936	----	----	----	0-0	
PFNS	549.00>99.00	549.00>79.95	33590	42908	127.74	129.18	64.59 -193.78	
PFDS_1	599.00>79.90	599.00>99.10	48634	41278	84.88	90.77	45.38 -136.15	
PFBA	213.00>169.10	----	219418	----	----	----		
PFBA-13C	216.90>172.15	----	1907692	----	----	----		
PFBA-13C_IS	216.90>172.15	----	1907692	----	----	----		
PFPeA	263.05>219.10	----	357556	----	----	----		
PFPeA-13C	267.90>223.00	----	1258388	----	----	----	0-0	
PFPeA-13C_IS	267.90>223.00	----	1258388	----	----	----	0-0	
PFHxA	313.00>269.00	313.00>119.10	470312	19797	4.21	4.17	2.08-6.25	
PFHxA-13C	314.90>270.10	----	3530448	----	----	----	0-0	
PFHxA-13C_IS	314.90>270.10	----	3530448	----	----	----	0-0	
PFHpA	362.90>319.00	362.90>169.00	312478	86358	27.64	26.04	13.02-39.07	
PFHpA-13C	366.90>322.10	----	3522288	----	----	----	0-0	
PFHpA-13C_IS	366.90>322.10	----	3522288	----	----	----	0-0	
PFOA	413.00>369.00	413.00>169.10	552760	167212	30.25	30.35	15.18-45.53	
PFOA-13C	416.80>372.05	----	3967676	----	----	----	0-0	
PFOA-13C_IS	416.80>372.05	----	3967676	----	----	----	0-0	
PFNA	463.00>418.90	463.00>219.00	364439	68871	18.90	22.35	11.18-33.53	
PFNA-13C	467.80>423.00	----	3156594	----	----	----	0-0	
PFNA-13C_IS	467.80>423.00	----	3156594	----	----	----	0-0	
PFDA	513.00>468.80	513.00>219.10	334363	57634	17.24	18.73	9.36-28.09	
PFDA-13C	514.80>469.95	----	2297886	----	----	----	0-0	
PFDA-13C_IS	514.80>469.95	----	2297886	----	----	----	0-0	
PFUnA	563.00>518.90	563.00>219.00	334326	38941	11.65	11.60	5.8-17.4	
PFUnA-13C	564.80>519.95	----	2948647	----	----	----	0-0	
PFUnA-13C_IS	564.80>519.95	----	2948647	----	----	----	0-0	
PFDoA	613.05>569.00	613.05>169.00	292822	44197	15.09	15.11	7.55-22.66	
PFDoA-13C	614.80>569.95	----	3354208	----	----	----	0-0	
PFDoA-13C_IS	614.80>569.95	----	3354208	----	----	----	0-0	
PFTrDA	663.00>618.90	662.90>169.00	292388	41509	14.20	14.19	7.09-21.28	
PFTeDA	713.00>669.00	713.00>169.10	240586	37145	15.44	14.98	7.49-22.46	
PFTeDA-13C	714.70>669.90	----	2211489	----	----	----	0-0	
PFTeDA-13C_IS	714.70>669.90	----	2211489	----	----	----	0-0	
FOSA	498.20>78.00	498.20>64.10	165214	6832	4.14	4.89	2.44-7.33	

J:\LCMS06\Data\210819_Curve\210819_Curve.DAMLP .

Comment 1 field specifies acceptance range for Ref 1 ratio.
IRr - Ion ratio outside criteria. Exceedances for results above the MDL to be "K" flagged in the analytical report.

Insight Report
Ion Ratio Confirmation
Printed 8/20/2021 11:19:20

210819_022 (continued)

(Table continued from previous page)

Name	m/z	Ref 1 m/z	Area	Ref 1 Measured	Ref 1 Actual Ratio	Ref 1 Set Ratio	Comment 1	Flag ID
FOSA-13C	506.00>78.05	----	1372310	----	----	----	0-0	
FOSA-13C_IS	506.00>78.05	----	1372310	----	----	----	0-0	
N-MeFOSA	512.00>169.10	512.00>219.00	53943	34011	63.05	62.72	31.36-94.08	
N-MeFOSA-d3	514.90>168.90	----	320866	----	----	----	0-0	
N-MeFOSA-d3_IS	514.90>168.90	----	320866	----	----	----	0-0	
N-EtFOSA	526.90>169.10	526.90>219.00	10086	7326	72.64	63.35	31.68-95.03	
N-EtFOSA-d9	530.90>169.15	----	357731	----	----	----	0-0	
N-EtFOSA-d9_IS	530.90>169.15	----	357731	----	----	----	0-0	
N-MeFOSE	616.00>59.00	----	70419	----	----	----		
N-MeFOSE-d7	622.70>59.10	----	323952	----	----	----		
N-MeFOSE-d7_IS	622.70>59.10	----	323952	----	----	----		
N-EtFOSE	630.00>58.90	----	72974	----	----	----		
N-EtFOSE-d9	638.70>59.10	----	347267	----	----	----	0-0	
N-EtFOSE-d9_IS	638.70>59.10	----	347267	----	----	----	0-0	
N-MeFOSAA	570.20>419.00	570.20>512.00	24576	6943	28.25	35.26	17.63-52.88	
N-MeFOSAA-d3	572.80>419.05	----	256266	----	----	----	0-0	
N-MeFOSAA-d3 _IS	572.80>419.05	----	256266	----	----	----	0-0	
N-EtFOSAA	584.20>418.95	584.20>526.10	19051	12004	63.01	77.25	38.62 -115.87	
N-EtFOSAA-d5	588.80>419.00	----	247474	----	----	----	0-0	
N-EtFOSAA-d5_IS	588.80>419.00	----	247474	----	----	----	0-0	
4_2-FTS_1	327.00>307.05	327.00>81.10	47431	15730	33.16	39.85	19.92-59.77	
4_2-FTS-13C	328.80>309.05	----	511642	----	----	----	0-0	
4_2-FTS-13C_IS	328.80>309.05	----	511642	----	----	----	0-0	
6_2-FTS_1	427.00>407.00	427.00>80.90	70740	21189	29.95	29.95	14.97-44.92	
6_2-FTS-13C	428.90>409.00	----	542410	----	----	----	0-0	
6_2-FTS-13C_IS	428.90>409.00	----	542410	----	----	----	0-0	
8_2-FTS_1	527.10>506.90	527.20>487.00	29465	2999	10.18	9.42	4.71-14.13	
8_2-FTS-13C	528.80>509.00	----	276123	----	----	----	0-0	
8_2-FTS-13C_IS	528.80>509.00	----	276123	----	----	----	0-0	
10_2-FtS_1	627.00>606.95	627.00>81.25	21115	9952	47.13	49.86	24.93-74.78	
HPFO_DA	329.00>169.00	329.00>285.10	52639	51694	98.21	101.52	50.76 -152.28	
HFPO_DA-13C	332.00>286.80	----	625559	----	----	----		
HFPO_DA-13C_IS	332.00>286.80	----	625559	----	----	----		

J:\LCMS06\Data\210819_Curve\210819_Curve.DAMLP .

Comment 1 field specifies acceptance range for Ref 1 ratio.
IRr - Ion ratio outside criteria. Exceedances for results above the MDL to be "K" flagged in the analytical report.

Insight Report
Quantitation/Integration
Printed 8/20/2021 11:13:44

210819_022

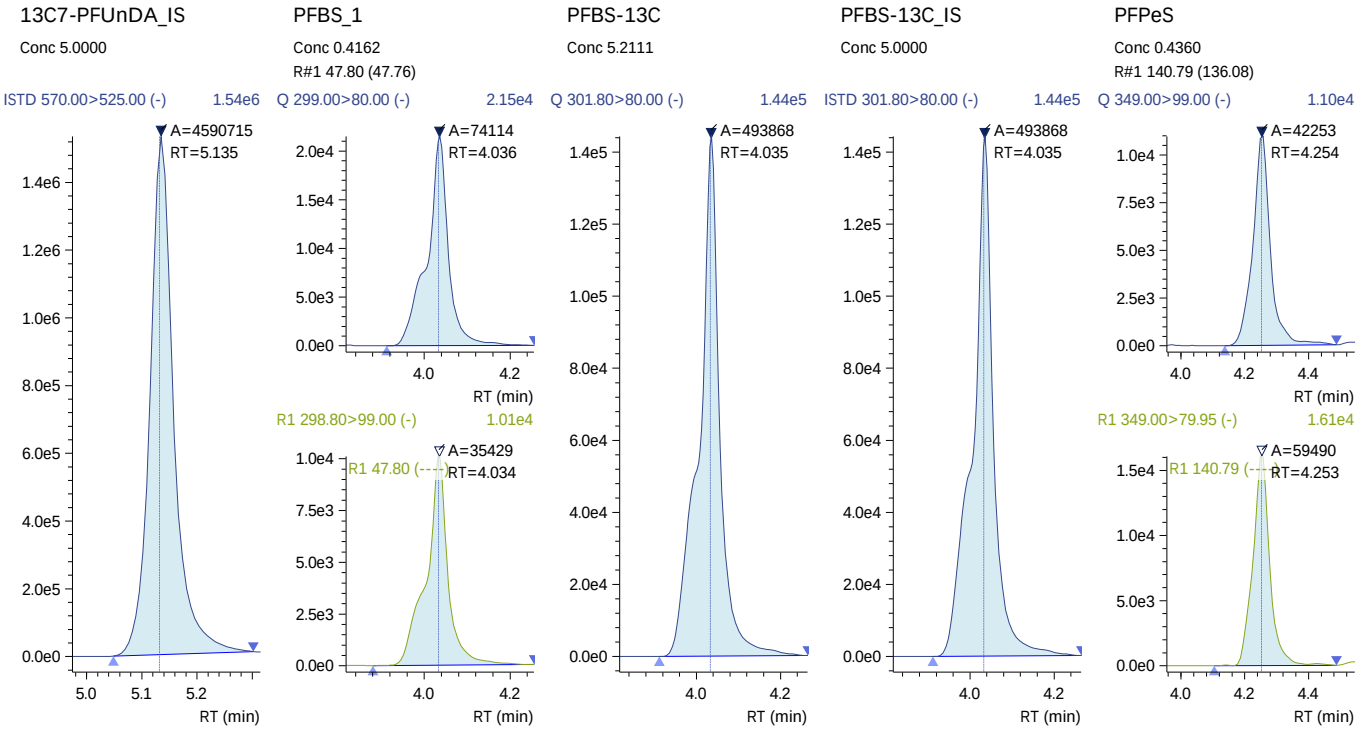
Sample ID: PFC ICAL @ 0.50ppb
Date Acquired: 8/19/2021 7:00:19 PM
Acquired by: System Administrator
Data File: 210819_022
Vial: 3 | Inj. Volume: 15.0000uL | Tray: 0

Name	Mode ID	Found RT	Area	ISTD Area	ISTD Name	Std. Conc.	Conc.	Unit
13C7-PFUnDA_IS	Auto	5.135	4590715	4590715	----	5.0000	5.0000	ng/mL
PFBS_1	Auto	4.036	74114	493868	PFBS-13C_IS	0.4437	0.4162	ng/mL
PFBS-13C	Auto	4.035	493868	4590715	13C7-PFUnDA_IS	5.0000	5.2111	ng/mL
PFBS-13C_IS	Auto	4.035	493868	493868	----	5.0000	5.0000	ng/mL
PFPeS	Auto	4.254	42253	493868	PFBS-13C_IS	0.4705	0.4360	ng/mL
PFHxS_1	Auto	4.417	43950	309730	PFHxS-18O_IS	0.4565	0.4056	ng/mL
PFHxS-18O	Auto	4.420	309730	4590715	13C7-PFUnDA_IS	5.0000	4.7930	ng/mL
PFHxS-18O_IS	Auto	4.420	309730	309730	----	5.0000	5.0000	ng/mL
PFHpS_1	Auto	4.584	59531	309730	PFHxS-18O_IS	0.4767	0.4580	ng/mL
PFOS_1	M	4.755	34407	403936	PFOS-13C_IS	0.4646	0.4528	ng/mL
PFOS-13C	Auto	4.755	403936	4590715	13C7-PFUnDA_IS	5.0000	5.0295	ng/mL
PFOS-13C_IS	Auto	4.755	403936	403936	----	5.0000	5.0000	ng/mL
PFNS	Auto	4.936	33590	403936	PFOS-13C_IS	0.4808	0.4888	ng/mL
PFDS_1	Auto	5.113	48634	403936	PFOS-13C_IS	0.4823	0.4928	ng/mL
PFBA	M	3.429	219418	1907692	PFBA-13C_IS	0.5000	0.4802	ng/mL
PFBA-13C	Auto	3.428	1907692	4590715	13C7-PFUnDA_IS	5.0000	5.0879	ng/mL
PFBA-13C_IS	Auto	3.428	1907692	1907692	----	5.0000	5.0000	ng/mL
PFPeA	Auto	3.981	357556	1258388	PFPeA-13C_IS	0.5000	0.4468	ng/mL
PFPeA-13C	Auto	3.981	1258388	4590715	13C7-PFUnDA_IS	5.0000	5.0927	ng/mL
PFPeA-13C_IS	Auto	3.981	1258388	1258388	----	5.0000	5.0000	ng/mL
PFHxA	Auto	4.238	470312	3530448	PFHxA-13C_IS	0.5000	0.4917	ng/mL
PFHxA-13C	Auto	4.238	3530448	4590715	13C7-PFUnDA_IS	5.0000	5.1892	ng/mL
PFHxA-13C_IS	Auto	4.238	3530448	3530448	----	5.0000	5.0000	ng/mL
PFHpA	M	4.421	312478	3522288	PFHpA-13C_IS	0.5000	0.4080	ng/mL
PFHpA-13C	Auto	4.419	3522288	4590715	13C7-PFUnDA_IS	5.0000	5.0993	ng/mL
PFHpA-13C_IS	Auto	4.419	3522288	3522288	----	5.0000	5.0000	ng/mL
PFOA	Auto	4.590	552760	3967676	PFOA-13C_IS	0.5000	0.4533	ng/mL
PFOA-13C	Auto	4.590	3967676	4590715	13C7-PFUnDA_IS	5.0000	5.1597	ng/mL
PFOA-13C_IS	Auto	4.590	3967676	3967676	----	5.0000	5.0000	ng/mL
PFNA	M	4.766	364439	3156594	PFNA-13C_IS	0.5000	0.4677	ng/mL
PFNA-13C	Auto	4.766	3156594	4590715	13C7-PFUnDA_IS	5.0000	5.3813	ng/mL
PFNA-13C_IS	Auto	4.766	3156594	3156594	----	5.0000	5.0000	ng/mL
PFDA	Auto	4.951	334363	2297886	PFDA-13C_IS	0.5000	0.4865	ng/mL
PFDA-13C	Auto	4.951	2297886	4590715	13C7-PFUnDA_IS	5.0000	5.3001	ng/mL
PFDA-13C_IS	Auto	4.951	2297886	2297886	----	5.0000	5.0000	ng/mL
PFUnA	Auto	5.136	334326	2948647	PFUnA-13C_IS	0.5000	0.4746	ng/mL
PFUnA-13C	Auto	5.135	2948647	4590715	13C7-PFUnDA_IS	5.0000	5.1045	ng/mL
PFUnA-13C_IS	Auto	5.135	2948647	2948647	----	5.0000	5.0000	ng/mL
PFDoA	Auto	5.313	292822	3354208	PFDoA-13C_IS	0.5000	0.4487	ng/mL
PFDoA-13C	Auto	5.313	3354208	4590715	13C7-PFUnDA_IS	5.0000	5.3008	ng/mL
PFDoA-13C_IS	Auto	5.313	3354208	3354208	----	5.0000	5.0000	ng/mL
PFTrDA	Auto	5.478	292388	2211489	PFTeDA-13C_IS	0.5000	0.4453	ng/mL
PFTeDA	Auto	5.635	240586	2211489	PFTeDA-13C_IS	0.5000	0.4839	ng/mL
PFTeDA-13C	Auto	5.635	2211489	4590715	13C7-PFUnDA_IS	5.0000	5.1644	ng/mL
PFTeDA-13C_IS	Auto	5.635	2211489	2211489	----	5.0000	5.0000	ng/mL
FOSA	Auto	5.234	165214	1372310	FOSA-13C_IS	0.5000	0.4737	ng/mL
FOSA-13C	Auto	5.234	1372310	4590715	13C7-PFUnDA_IS	5.0000	5.0324	ng/mL
FOSA-13C_IS	Auto	5.234	1372310	1372310	----	5.0000	5.0000	ng/mL
N-MeFOSA	M	5.626	53943	320866	N-MeFOSA-d3_IS	0.5000	0.4491	ng/mL
N-MeFOSA-d3	Auto	5.624	320866	4590715	13C7-PFUnDA_IS	5.0000	5.0604	ng/mL
N-MeFOSA-d3_IS	Auto	5.624	320866	320866	----	5.0000	5.0000	ng/mL
N-EtFOSA	M	5.763	10086	357731	N-EtFOSA-d9_IS	0.5000	0.4499	ng/mL
N-EtFOSA-d9	Auto	5.758	357731	4590715	13C7-PFUnDA_IS	5.0000	4.9654	ng/mL
N-EtFOSA-d9_IS	Auto	5.758	357731	357731	----	5.0000	5.0000	ng/mL

210819_022 (continued)

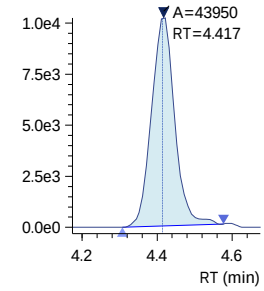
(Table continued from previous page)

Name	Mode ID	Found RT	Area	ISTD Area	ISTD Name	Std. Conc.	Conc.	Unit
N-MeFOSE	Auto	5.606	70419	323952	N-MeFOSE-d7_IS	0.5000	0.4964	ng/mL
N-MeFOSE-d7	Auto	5.598	323952	4590715	13C7-PFUnDA_IS	5.0000	5.1090	ng/mL
N-MeFOSE-d7_IS	Auto	5.598	323952	323952	----	5.0000	5.0000	ng/mL
N-EtFOSE	Auto	5.738	72974	347267	N-EtFOSE-d9_IS	0.5000	0.4592	ng/mL
N-EtFOSE-d9	Auto	5.727	347267	4590715	13C7-PFUnDA_IS	5.0000	5.2899	ng/mL
N-EtFOSE-d9_IS	Auto	5.727	347267	347267	----	5.0000	5.0000	ng/mL
N-MeFOSAA	Auto	5.050	24576	256266	N-MeFOSAA-d3_IS	0.5000	0.5374	ng/mL
N-MeFOSAA-d3	Auto	5.048	256266	4590715	13C7-PFUnDA_IS	5.0000	4.9554	ng/mL
N-MeFOSAA-d3_IS	Auto	5.048	256266	256266	----	5.0000	5.0000	ng/mL
N-EtFOSAA	M	5.149	19051	247474	N-EtFOSAA-d5_IS	0.5000	0.4614	ng/mL
N-EtFOSAA-d5	Auto	5.146	247474	4590715	13C7-PFUnDA_IS	5.0000	5.1403	ng/mL
N-EtFOSAA-d5_IS	Auto	5.146	247474	247474	----	5.0000	5.0000	ng/mL
4_2-FTS_1	Auto	4.211	47431	511642	4_2-FTS-13C_IS	0.4686	0.4627	ng/mL
4_2-FTS-13C	Auto	4.213	511642	4590715	13C7-PFUnDA_IS	5.0000	4.8499	ng/mL
4_2-FTS-13C_IS	Auto	4.213	511642	511642	----	5.0000	5.0000	ng/mL
6_2-FTS_1	M	4.579	70740	542410	6_2-FTS-13C_IS	0.4756	0.4689	ng/mL
6_2-FTS-13C	Auto	4.580	542410	4590715	13C7-PFUnDA_IS	5.0000	5.4425	ng/mL
6_2-FTS-13C_IS	Auto	4.580	542410	542410	----	5.0000	5.0000	ng/mL
8_2-FTS_1	Auto	4.949	29465	276123	8_2-FTS-13C_IS	0.4800	0.4588	ng/mL
8_2-FTS-13C	Auto	4.949	276123	4590715	13C7-PFUnDA_IS	5.0000	5.2054	ng/mL
8_2-FTS-13C_IS	Auto	4.949	276123	276123	----	5.0000	5.0000	ng/mL
10_2-FtS_1	Auto	5.319	21115	276123	8_2-FTS-13C_IS	0.4831	0.4752	ng/mL
HPFO_DA	Auto	4.306	52639	625559	HFPO_DA-13C_IS	0.5000	0.4626	ng/mL
HFPO_DA-13C	Auto	4.306	625559	4590715	13C7-PFUnDA_IS	5.0000	5.2738	ng/mL
HFPO_DA-13C_IS	Auto	4.306	625559	625559	----	5.0000	5.0000	ng/mL

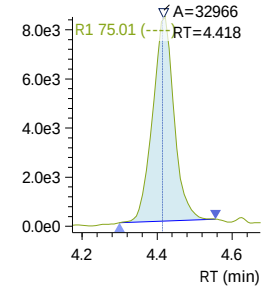


210819_022 (continued)

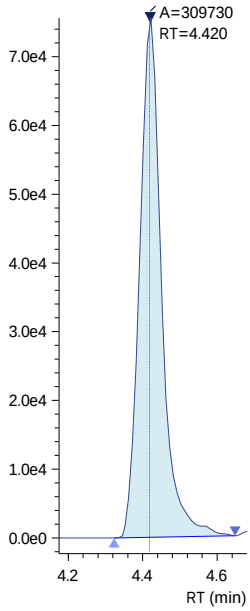
PFHxS_1
Conc 0.4056
R#1 75.01 (71.26)
Q 399.00>80.00 (-) 1.03e4



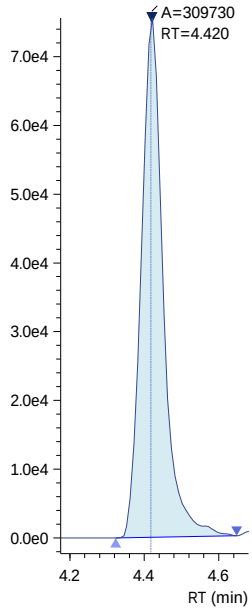
R1 399.00>99.00 (-) 8.52e3



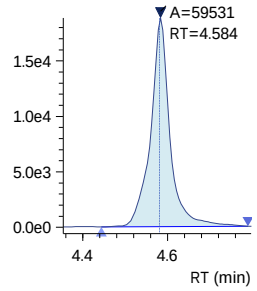
PFHxS-18O
Conc 4.7930
Q 402.70>84.05 (-) 7.56e4



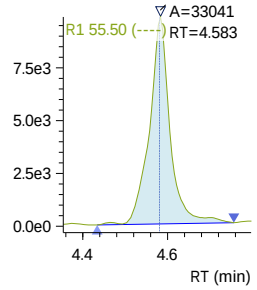
PFHxS-18O_IS
Conc 5.0000
ISTD 402.70>84.05 (-) 7.56e4



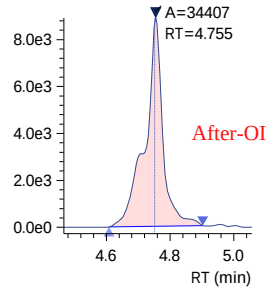
PFHpS_1
Conc 0.4580
R#1 55.50 (53.84)
Q 449.00>80.15 (-) 1.89e4



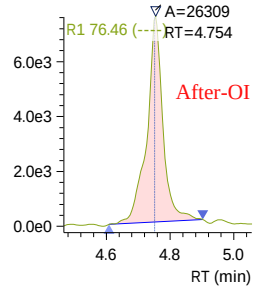
R1 449.00>99.20 (-) 9.91e3



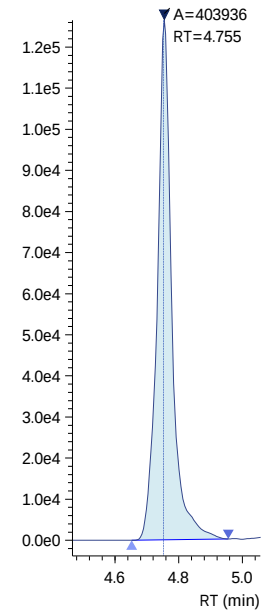
PFOS_1
Conc 0.4528
R#1 76.46 (86.72)
Q 499.00>80.00 (-) 8.92e3



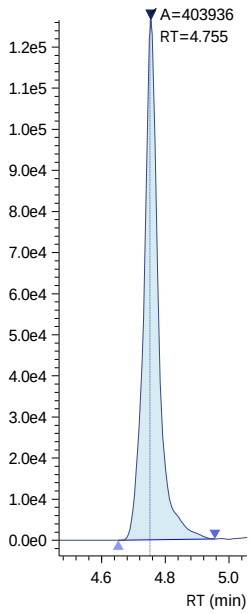
R1 499.00>99.00 (-) 7.63e3



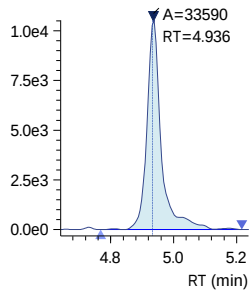
PFOS-13C
Conc 5.0295
Q 502.80>80.05 (-) 1.27e5



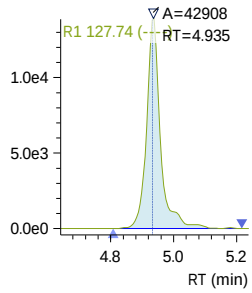
PFOS-13C_IS
Conc 5.0000
ISTD 502.80>80.05 (-) 1.27e5



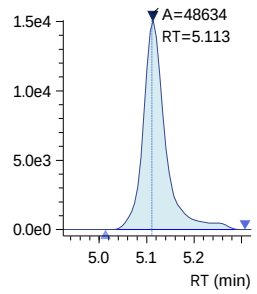
PFNS
Conc 0.4888
R#1 127.74 (129.18)
Q 549.00>99.00 (-) 1.05e4



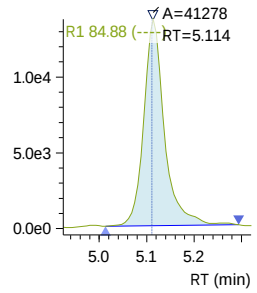
R1 549.00>79.95 (-) 1.39e4



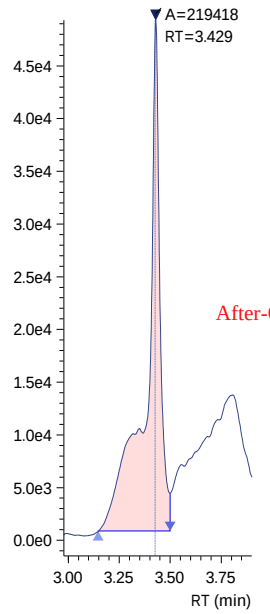
PFDS_1
Conc 0.4928
R#1 84.88 (90.77)
Q 599.00>79.90 (-) 1.51e4



R1 599.00>99.10 (-) 1.38e4

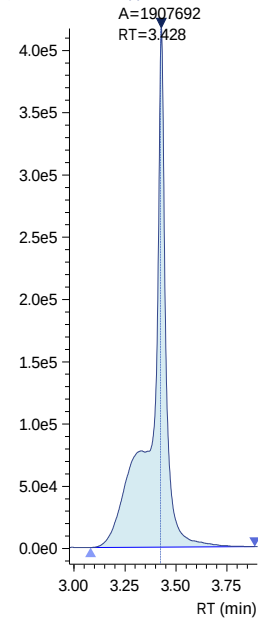


PFBA
Conc 0.4802
Q 213.00>169.10 (-) 4.93e4



210819_022 (continued)

PFBA-13C
Conc 5.0879
Q 216.90>172.15 (-) 4.18e5



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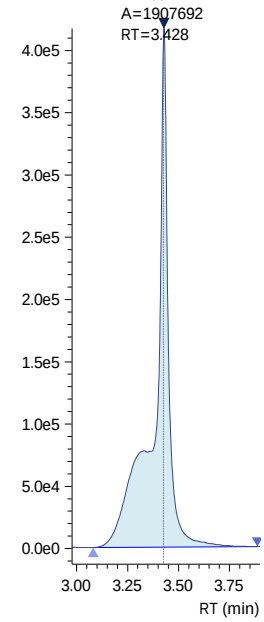
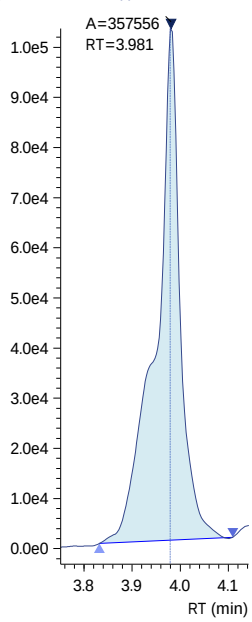
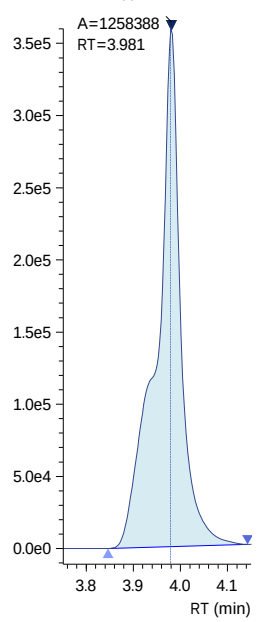
Conc 5.0000
ISTD 216.90>172.15 (-) 4.18e5



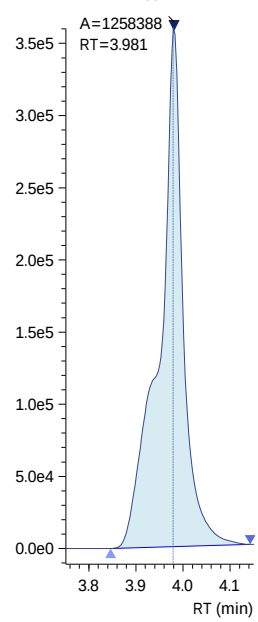
PFPeA
Conc 0.4468
Q 263.05>219.10 (-) 1.04e5



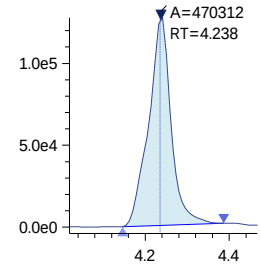
PFPeA-13C
Conc 5.0927
Q 267.90>223.00 (-) 3.60e5



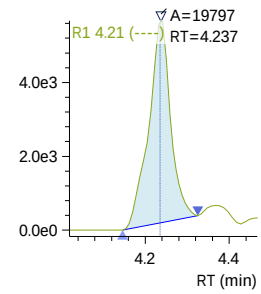
PFPeA-13C_IS
Conc 5.0000
ISTD 267.90>223.00 (-) 3.60e5



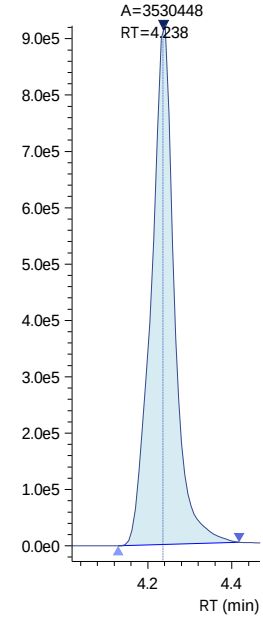
PFHxA
Conc 0.4917
R#1 4.21 (4.17)
Q 313.00>269.00 (-) 1.28e5



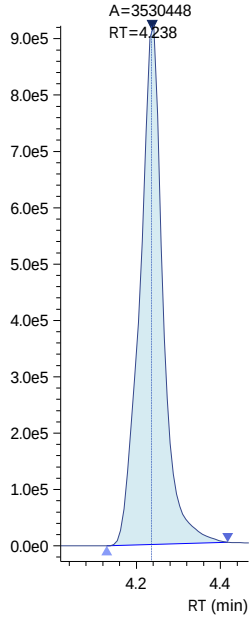
R1 313.00>119.10 (-) 5.67e3



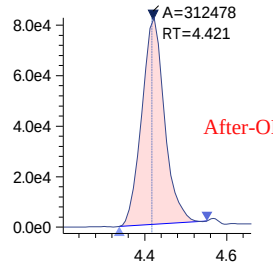
PFHxA-13C
Conc 5.1892
Q 314.90>270.10 (-) 9.23e5



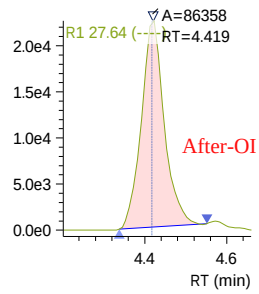
PFHxA-13C_IS
Conc 5.0000
ISTD 314.90>270.10 (-) 9.23e5



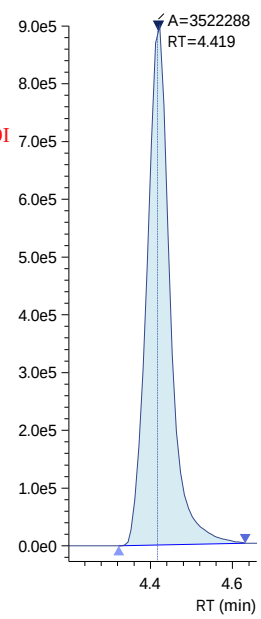
PFHpA
Conc 0.4080
R#1 27.64 (26.04)
Q 362.90>319.00 (-) 8.29e4



R1 362.90>169.00 (-) 2.27e4



PFHpA-13C
Conc 5.0993
Q 366.90>322.10 (-) 9.00e5



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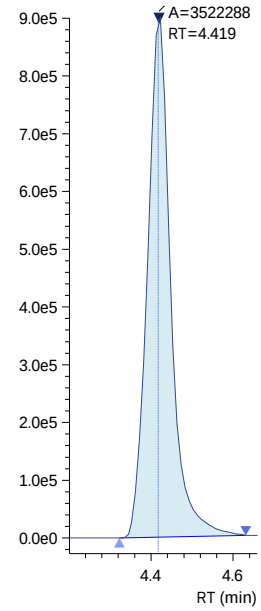
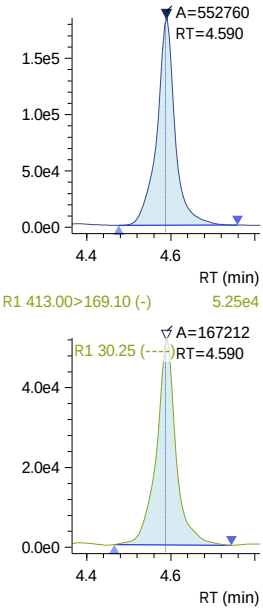
PFHpA-13C_IS
Conc 5.0000
ISTD 366.90>322.10 (-) 9.00e5

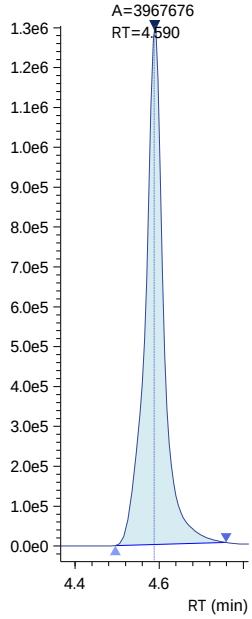


PFOA
Conc 0.4533
R#1 30.25 (30.35)
Q 413.00>369.00 (-) 1.86e5

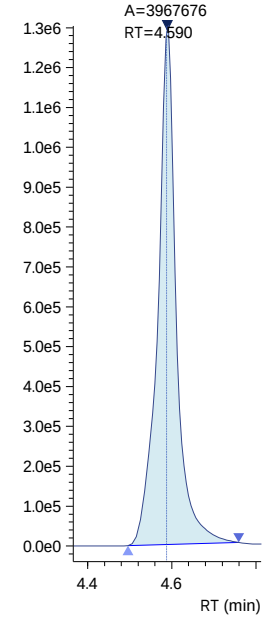


R1 413.00>169.10 (-) 5.25e4

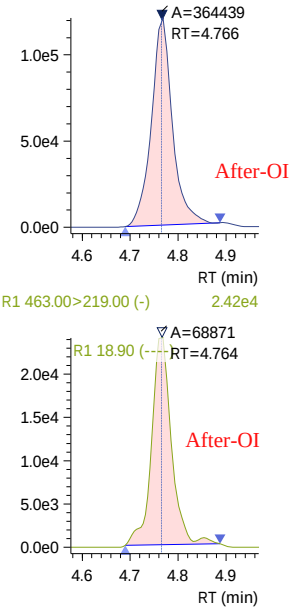
PFOA-13C
Conc 5.1597
Q 416.80>372.05 (-) 1.30e6



PFOA-13C_IS
Conc 5.0000
ISTD 416.80>372.05 (-) 1.30e6

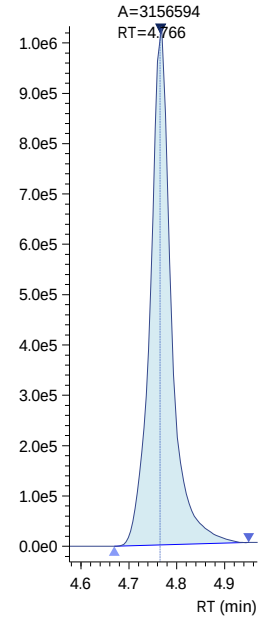


PFNA
Conc 0.4677
R#1 18.90 (22.35)
Q 463.00>418.90 (-) 1.21e5

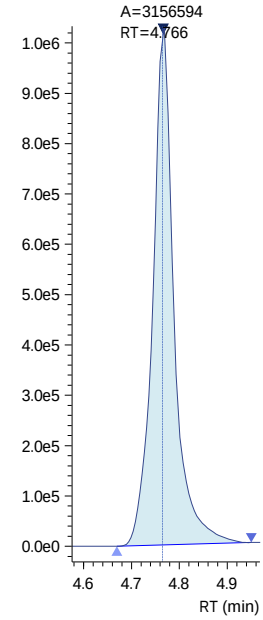


R1 463.00>219.00 (-) 2.42e4

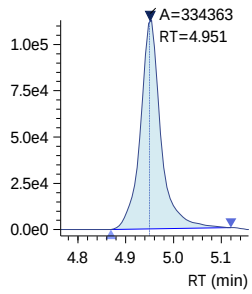
PFNA-13C
Conc 5.3813
Q 467.80>423.00 (-) 1.03e6



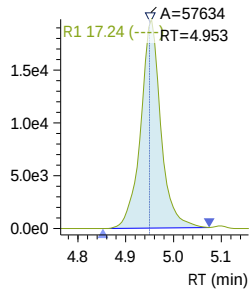
PFNA-13C_IS
Conc 5.0000
ISTD 467.80>423.00 (-) 1.03e6



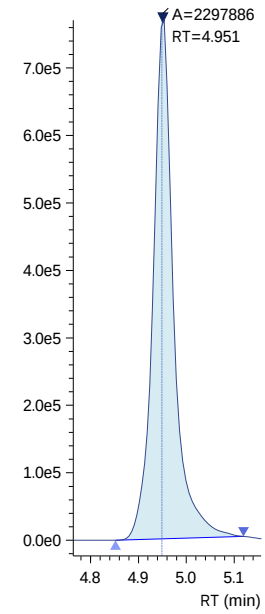
PFDA
Conc 0.4865
R#1 17.24 (18.73)
Q 513.00>468.80 (-) 1.13e5



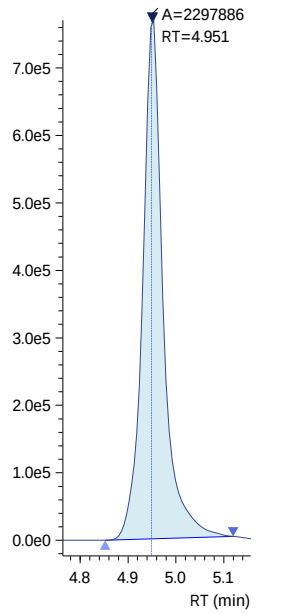
R1 513.00>219.10 (-) 1.98e4



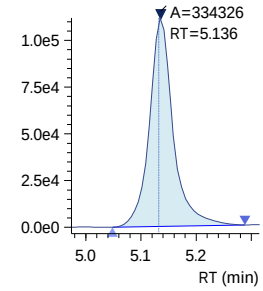
PFDA-13C
Conc 5.3001
Q 514.80>469.95 (-) 7.71e5

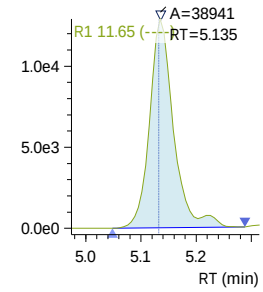


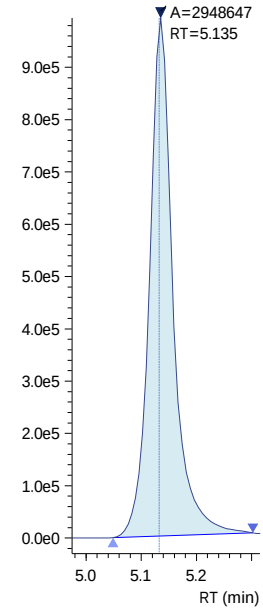
PFDA-13C_IS
Conc 5.0000
ISTD 514.80>469.95 (-) 7.71e5

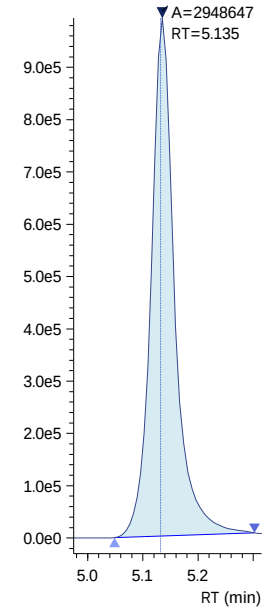


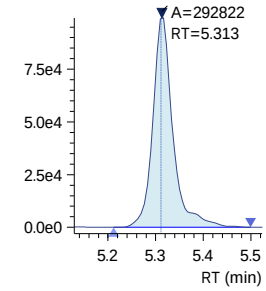
210819_022 (continued)

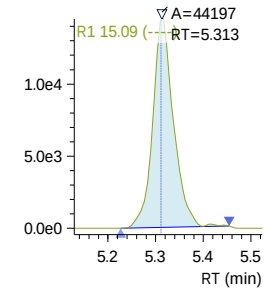
PFUnA
Conc 0.4746
R#1 11.65 (11.60)
Q 563.00>518.90 (-) 1.12e5


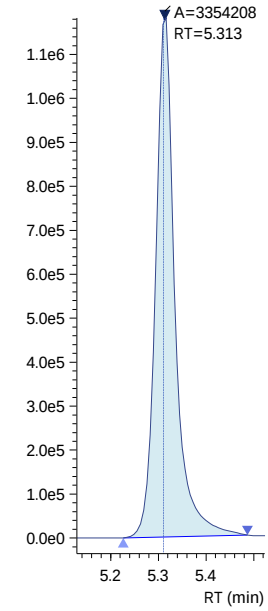
R1 563.00>219.00 (-) 1.29e4


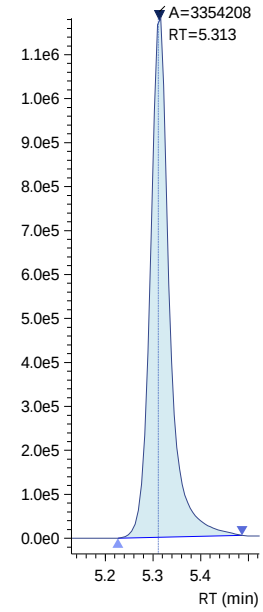
PFUnA-13C
Conc 5.1045
Q 564.80>519.95 (-) 9.94e5


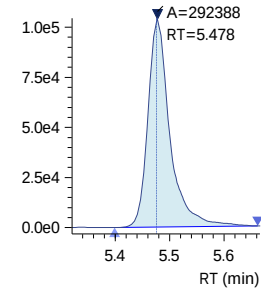
PFUnA-13C_IS
Conc 5.0000
ISTD 564.80>519.95 (-) 9.94e5


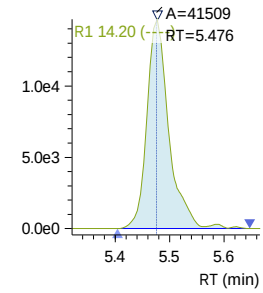
PFDoA
Conc 0.4487
R#1 15.09 (15.11)
Q 613.05>569.00 (-) 9.93e4


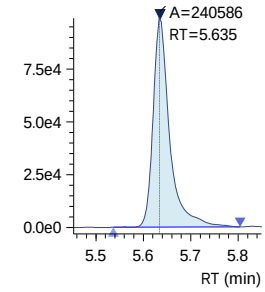
R1 613.05>169.00 (-) 1.45e4


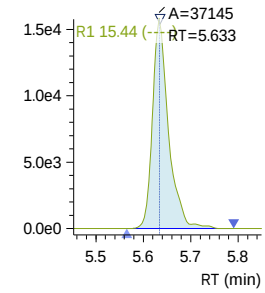
PFDoA-13C
Conc 5.3008
Q 614.80>569.95 (-) 1.18e6


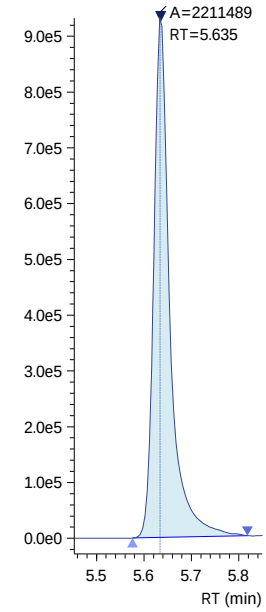
PFDoA-13C_IS
Conc 5.0000
ISTD 614.80>569.95 (-) 1.18e6


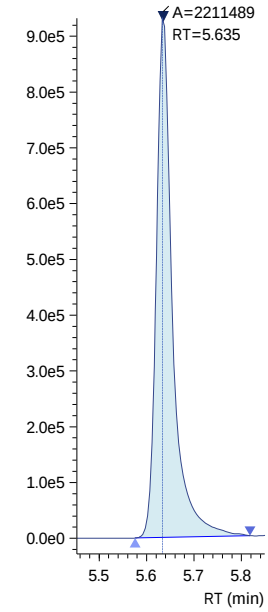
PFTrDA
Conc 0.4453
R#1 14.20 (14.19)
Q 663.00>618.90 (-) 1.04e5


R1 662.90>169.00 (-) 1.47e4


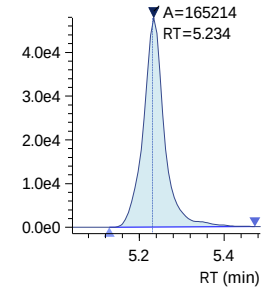
PFTeDA
Conc 0.4839
R#1 15.44 (14.98)
Q 713.00>669.00 (-) 9.91e4


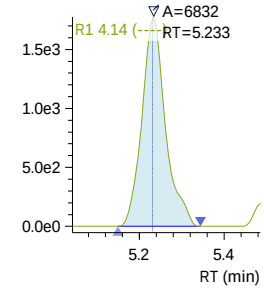
R1 713.00>169.10 (-) 1.58e4


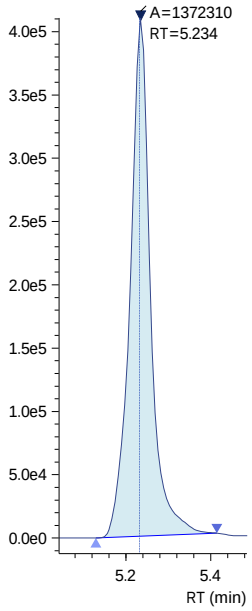
PFTeDA-13C
Conc 5.1644
Q 714.70>669.90 (-) 9.32e5


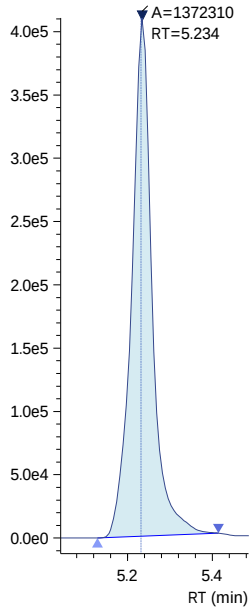
PFTeDA-13C_IS
Conc 5.0000
ISTD 714.70>669.90 (-) 9.32e5


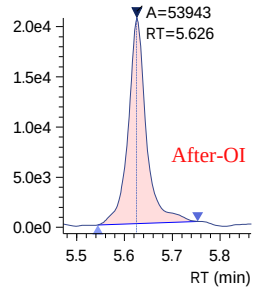
210819_022 (continued)

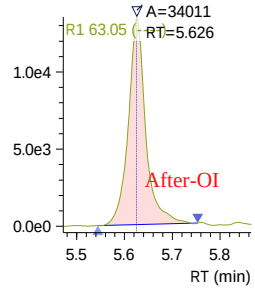
FOSA
Conc 0.4737
R#1 4.14 (4.89)
Q 498.20>78.00 (-) 4.79e4


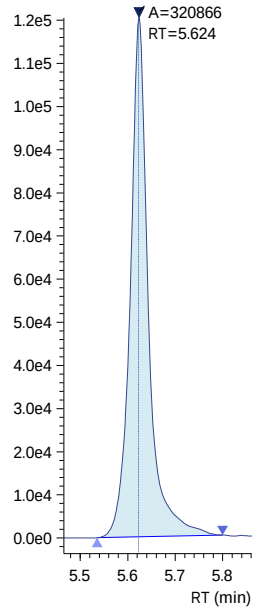
R1 498.20>64.10 (-) 1.78e3


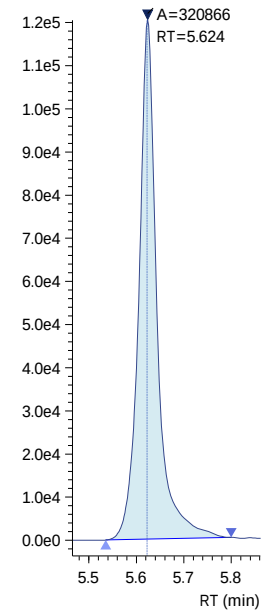
FOSA-13C
Conc 5.0324
Q 506.00>78.05 (-) 4.11e5


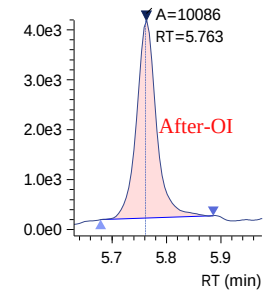
FOSA-13C_IS
Conc 5.0000
ISTD 506.00>78.05 (-) 4.11e5


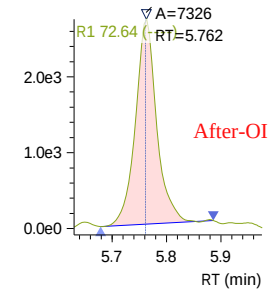
N-MeFOSA
Conc 0.4491
R#1 63.05 (62.72)
Q 512.00>169.10 (-) 2.09e4


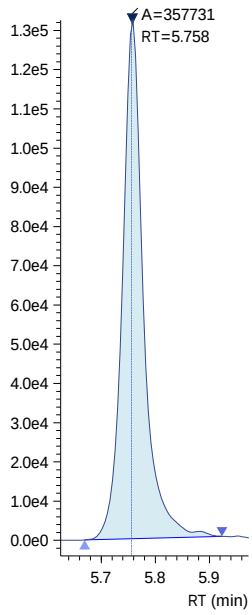
R1 512.00>219.00 (-) 1.36e4


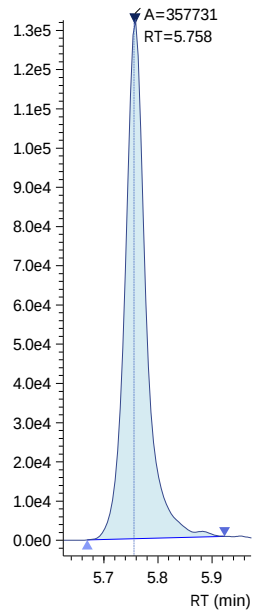
N-MeFOSA-d3
Conc 5.0604
Q 514.90>168.90 (-) 1.21e5


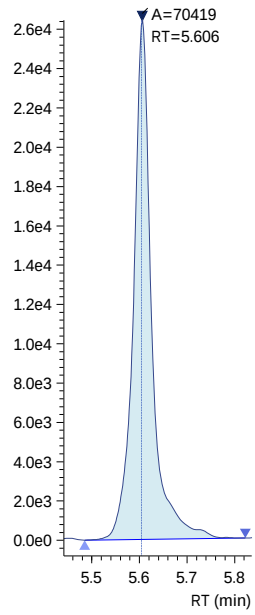
N-MeFOSA-d3_IS
Conc 5.0000
ISTD 514.90>168.90 (-) 1.21e5


N-MeFOSA
Conc 0.4499
R#1 72.64 (63.35)
Q 526.90>169.10 (-) 4.19e3


R1 526.90>219.00 (-) 2.76e3


N-EtFOSA-d9
Conc 4.9654
Q 530.90>169.15 (-) 1.33e5


N-EtFOSA-d9_IS
Conc 5.0000
ISTD 530.90>169.15 (-) 1.33e5


N-MeFOSE
Conc 0.4964
Q 616.00>59.00 (-) 2.65e4


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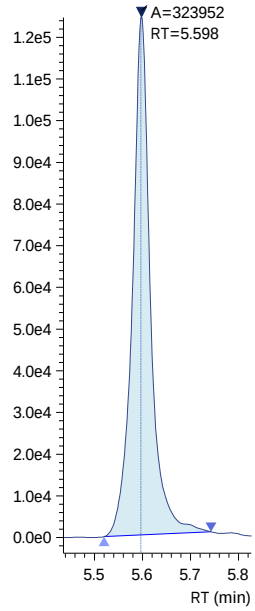
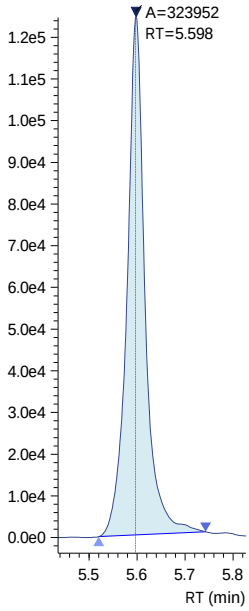
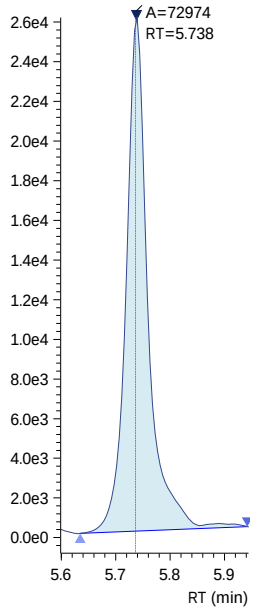
N-MeFOSE-d7
Conc 5.1090
Q 622.70>59.10 (-) 1.25e5



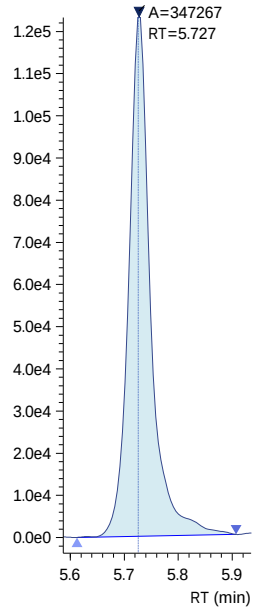
N-MeFOSE-d7_IS
Conc 5.0000
ISTD 622.70>59.10 (-) 1.25e5



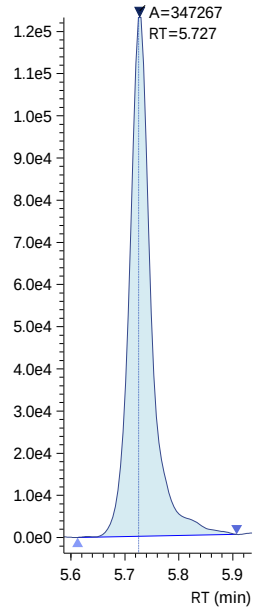
N-EtFOSE
Conc 0.4592
Q 630.00>58.90 (-) 2.62e4



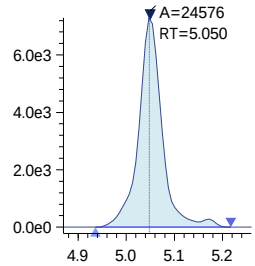
N-EtFOSE-d9
Conc 5.2899
Q 638.70>59.10 (-) 1.23e5



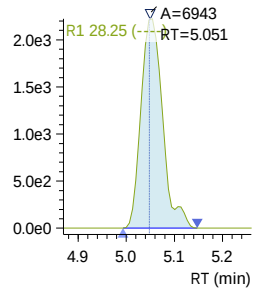
N-EtFOSE-d9_IS
Conc 5.0000
ISTD 638.70>59.10 (-) 1.23e5



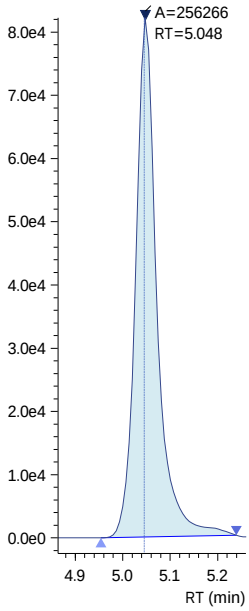
N-MeFOSAA
Conc 0.5374
R#1 28.25 (35.26)
Q 570.20>419.00 (-) 7.30e3



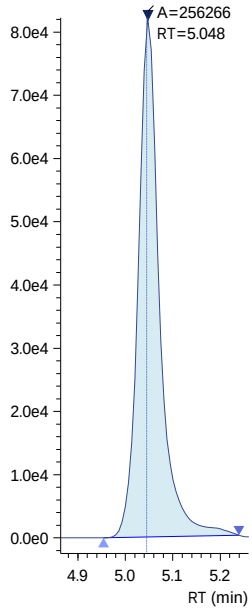
R1 570.20>512.00 (-) 2.22e3



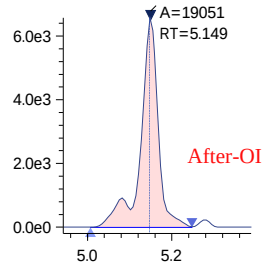
N-MeFOSAA-d3
Conc 4.9554
Q 572.80>419.05 (-) 8.23e4



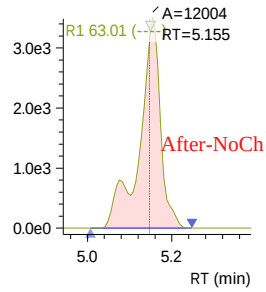
N-MeFOSAA-d3_IS
Conc 5.0000
ISTD 572.80>419.05 (-) 8.23e4



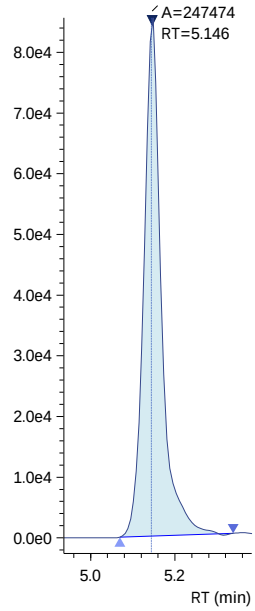
N-EtFOSAA
Conc 0.4614
R#1 63.01 (77.25)
Q 584.20>418.95 (-) 6.57e3



R1 584.20>526.10 (-) 3.49e3

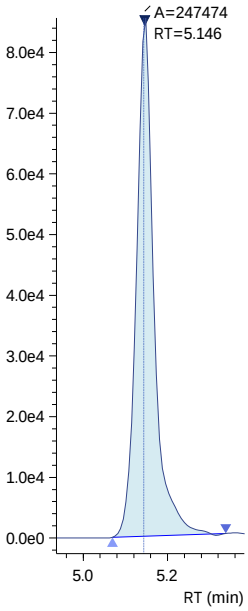


N-EtFOSAA-d5
Conc 5.1403
Q 588.80>419.00 (-) 8.57e4

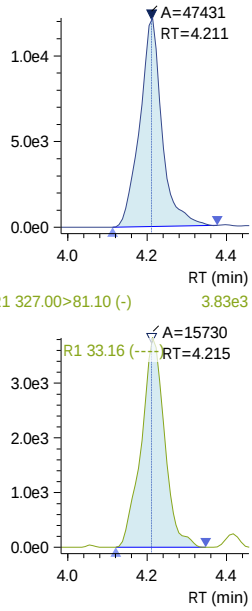


210819_022 (continued)

N-EtFOSAA-d5_IS
Conc 5.0000
ISTD 588.80>419.00 (-) 8.57e4

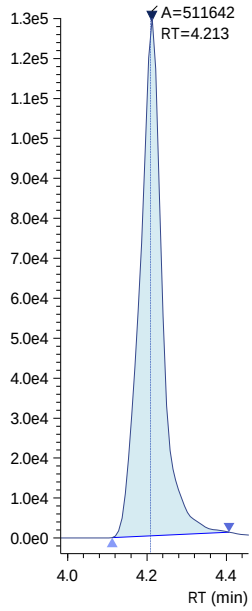


4_2-FTS_1
Conc 0.4627
R#1 33.16 (39.85)
Q 327.00>307.05 (-) 1.22e4

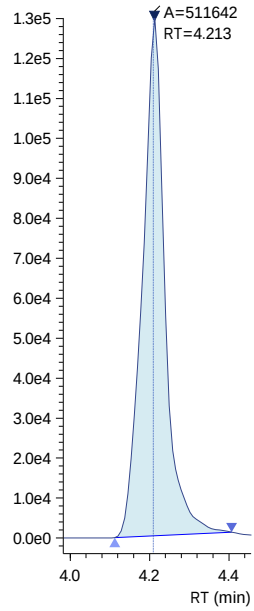


R1 327.00>81.10 (-) 3.83e3

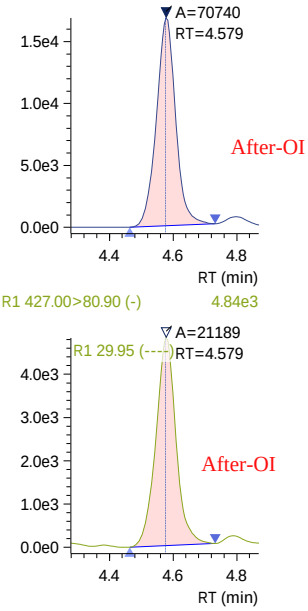
4_2-FTS-13C
Conc 4.8499
Q 328.80>309.05 (-) 1.30e5



4_2-FTS-13C_IS
Conc 5.0000
ISTD 328.80>309.05 (-) 1.30e5

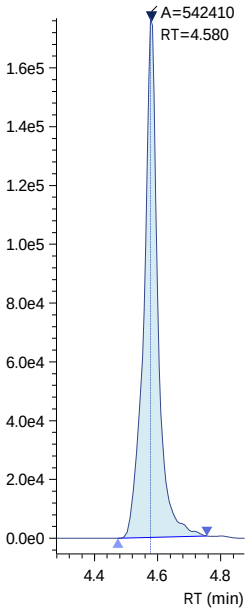


6_2-FTS_1
Conc 0.4689
R#1 29.95 (29.95)
Q 427.00>407.00 (-) 1.69e4

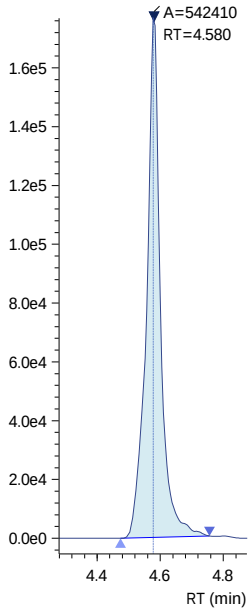


R1 427.00>80.90 (-) 4.84e3

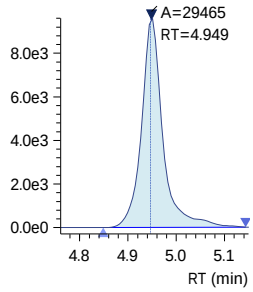
6_2-FTS-13C
Conc 5.4425
Q 428.90>409.00 (-) 1.77e5



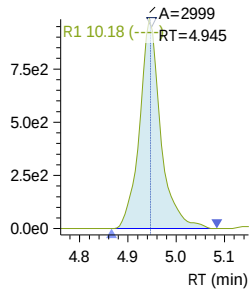
6_2-FTS-13C_IS
Conc 5.0000
ISTD 428.90>409.00 (-) 1.77e5



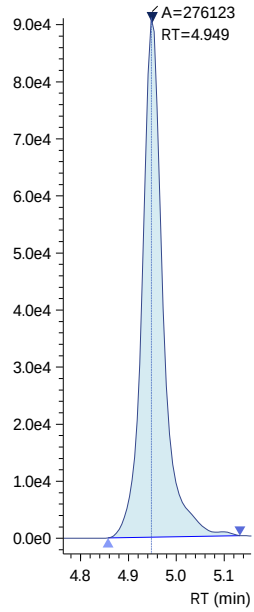
8_2-FTS_1
Conc 0.4588
R#1 10.18 (9.42)
Q 527.10>506.90 (-) 9.61e3



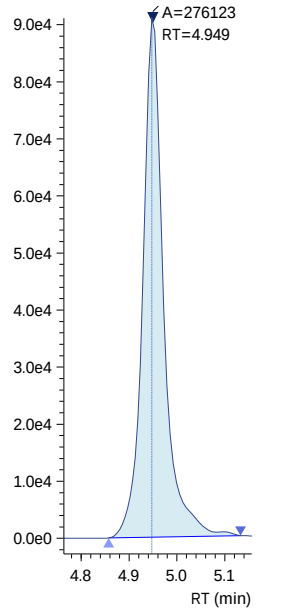
R1 527.20>487.00 (-) 9.84e2



8_2-FTS-13C
Conc 5.2054
Q 528.80>509.00 (-) 9.11e4

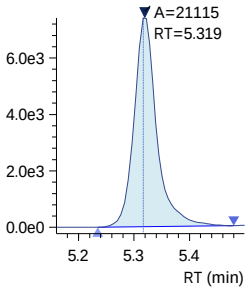


8_2-FTS-13C_IS
Conc 5.0000
ISTD 528.80>509.00 (-) 9.11e4

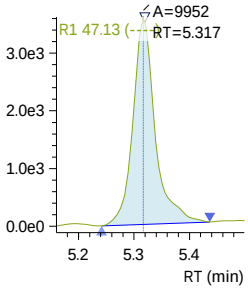


210819_022 (continued)

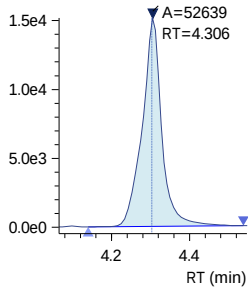
10_2-FtS_1
Conc 0.4752
R#1 47.13 (49.86)
Q 627.00>606.95 (-) 7.42e3



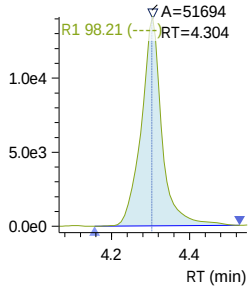
R1 627.00>81.25 (-) 3.63e3



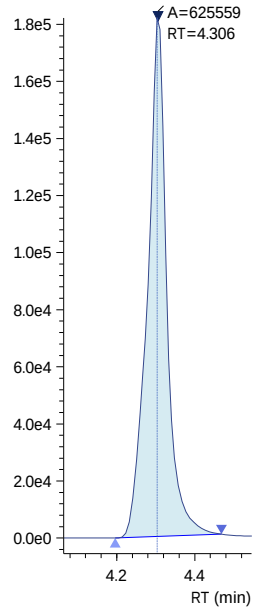
HPFO_DA
Conc 0.4626
R#1 98.21 (101.52)
Q 329.00>169.00 (-) 1.52e4



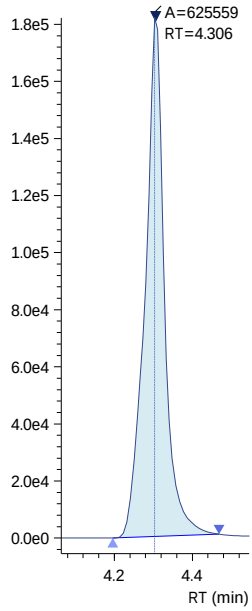
R1 329.00>285.10 (-) 1.41e4



HFPO_DA-13C
Conc 5.2738
Q 332.00>286.80 (-) 1.82e5



HFPO_DA-13C_IS
Conc 5.0000
ISTD 332.00>286.80 (-) 1.82e5

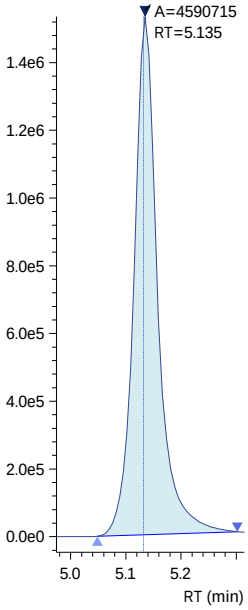


Insight Report
Before Manual Integration
Printed 8/20/2021 09:47:37

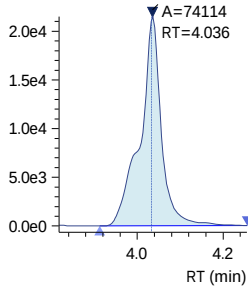
210819_022

Sample ID: PFC ICAL @ 0.50ppb
Date Acquired: 8/19/2021 7:00:19 PM
Acquired by: System Administrator
Data File: 210819_022
Vial: 3 | Inj. Volume: 15.0000uL | Tray: 0

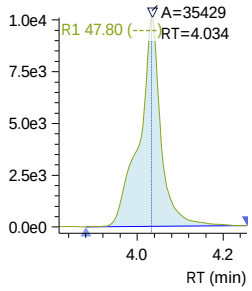
13C7-PFUnDA_IS
Conc 5.0000
ISTD 570.00>525.00 (-) 1.54e6



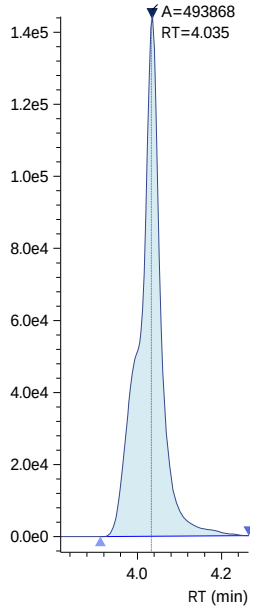
PFBS_1
Conc 0.4108
R#1 47.80 (48.11)
Q 299.00>80.00 (-) 2.15e4



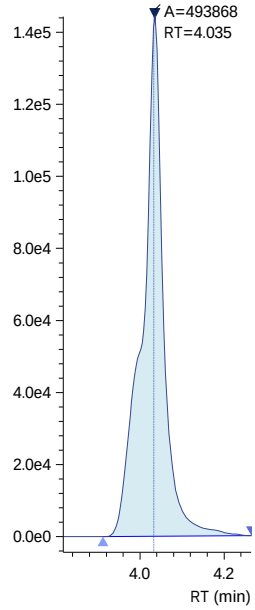
R1 298.80>99.00 (-) 1.01e4



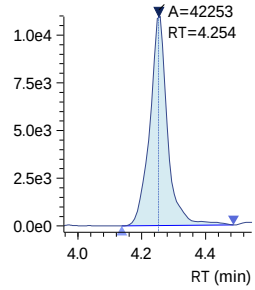
PFBS-13C
Conc 5.2144
Q 301.80>80.00 (-) 1.44e5



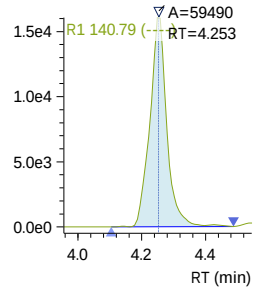
PFBS-13C_IS
Conc 5.0000
ISTD 301.80>80.00 (-) 1.44e5



PFPeS
Conc 0.4230
R#1 140.79 (149.27)
Q 349.00>99.00 (-) 1.10e4

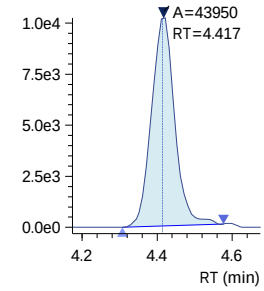


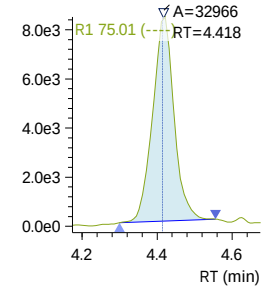
R1 349.00>79.95 (-) 1.61e4

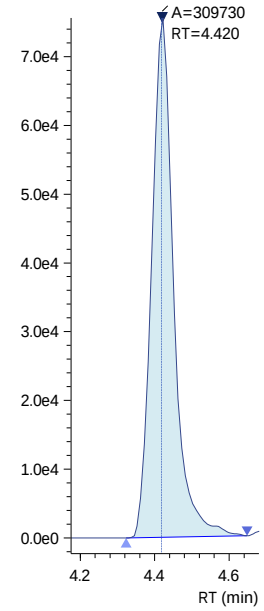


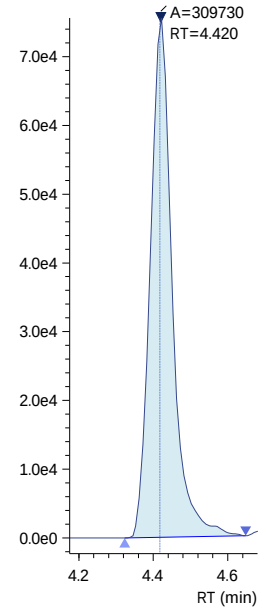
Insight Report
Before Manual Integration
Printed 8/20/2021 09:47:37

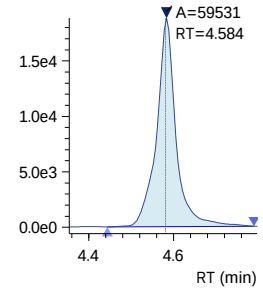
210819_022 (continued)

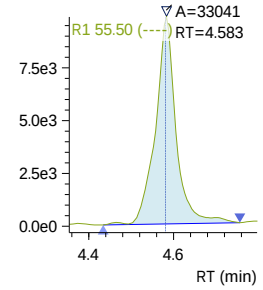
PFHxS_1
Conc 0.3840
R#1 75.01 (83.10)
Q 399.00>80.00 (-) 1.03e4


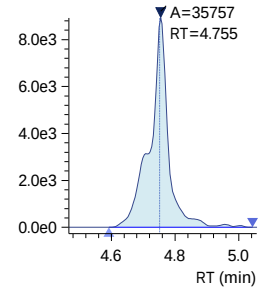
R1 399.00>99.00 (-) 8.52e3


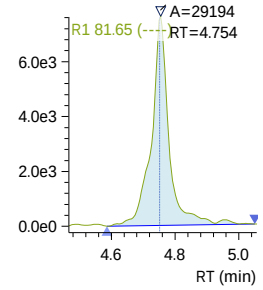
PFHxS-18O
Conc 4.7930
Q 402.70>84.05 (-) 7.56e4


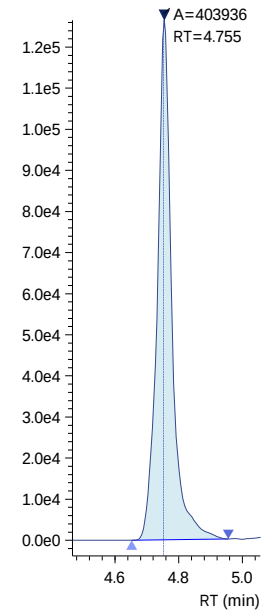
PFHxS-18O_IS
Conc 5.0000
ISTD 402.70>84.05 (-) 7.56e4


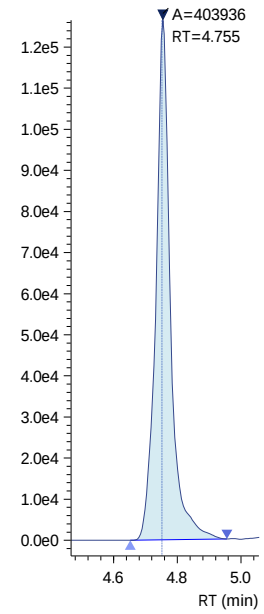
PFHpS_1
Conc 0.4522
R#1 55.50 (58.24)
Q 449.00>80.15 (-) 1.89e4


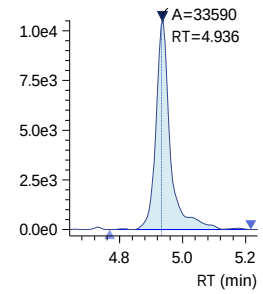
R1 449.00>99.20 (-) 9.91e3


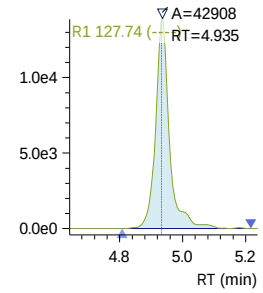
PFOS_1
Conc 0.4581
R#1 81.65 (87.63)
Q 499.00>80.00 (-) 8.92e3


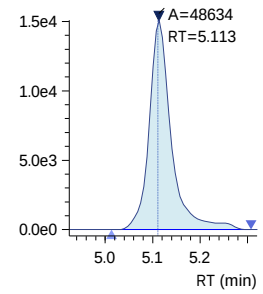
R1 499.00>99.00 (-) 7.63e3


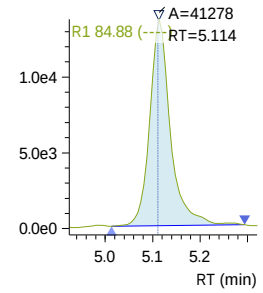
PFOS-13C
Conc 5.0295
Q 502.80>80.05 (-) 1.27e5


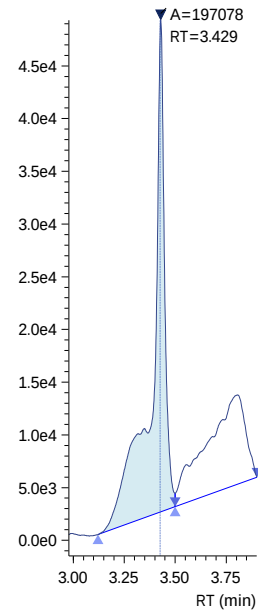
PFOS-13C_IS
Conc 5.0000
ISTD 502.80>80.05 (-) 1.27e5


PFNS
Conc 0.4863
R#1 127.74 (137.56)
Q 549.00>99.00 (-) 1.05e4


R1 549.00>79.95 (-) 1.39e4


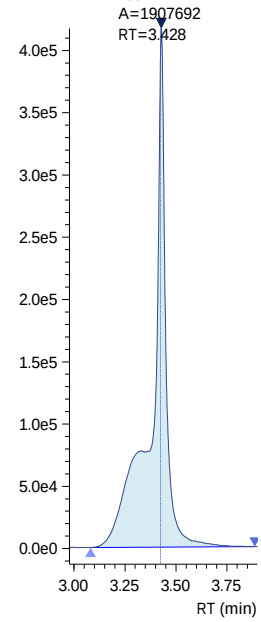
PFDS_1
Conc 0.4940
R#1 84.88 (101.78)
Q 599.00>79.90 (-) 1.51e4


R1 599.00>99.10 (-) 1.38e4


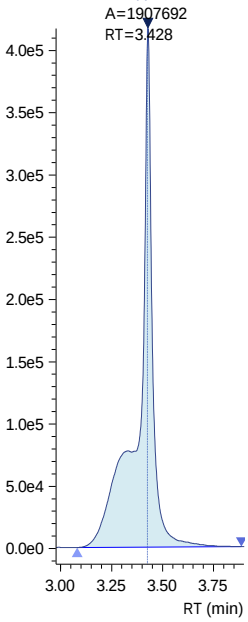
PFBA
Conc 0.3866
Q 213.00>169.10 (-) 4.93e4


210819_022 (continued)

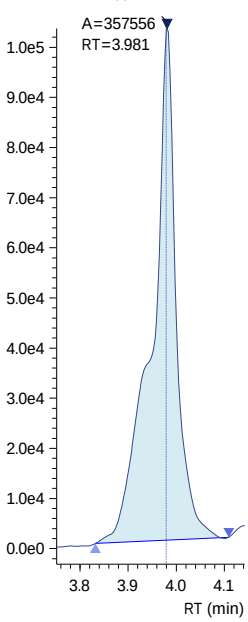
PFBA-13C
Conc 5.0879
Q 216.90>172.15 (-) 4.18e5



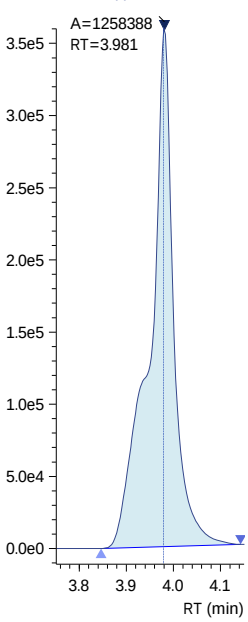
PFBA-13C_IS
Conc 5.0000
ISTD 216.90>172.15 (-) 4.18e5



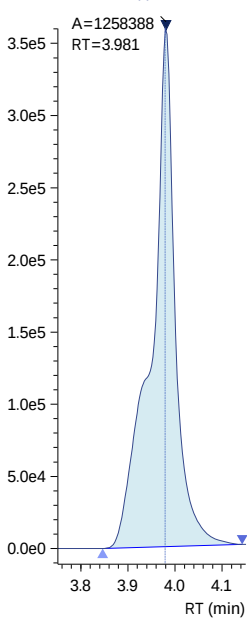
PFPeA
Conc 0.4677
Q 263.05>219.10 (-) 1.04e5



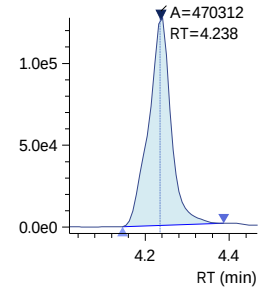
PFPeA-13C
Conc 5.0927
Q 267.90>223.00 (-) 3.60e5



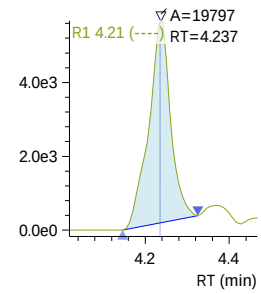
PFPeA-13C_IS
Conc 5.0000
ISTD 267.90>223.00 (-) 3.60e5



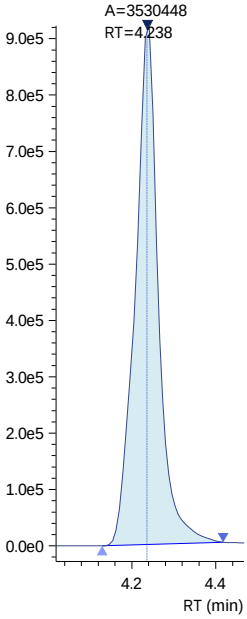
PFHxA
Conc 0.4903
R#1 4.21 (4.21)
Q 313.00>269.00 (-) 1.28e5



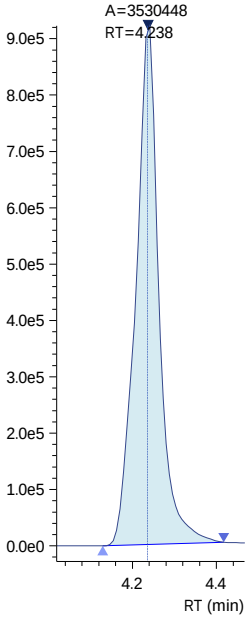
R1 313.00>119.10 (-) 5.67e3



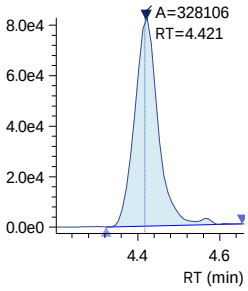
PFHxA-13C
Conc 5.1748
Q 314.90>270.10 (-) 9.23e5



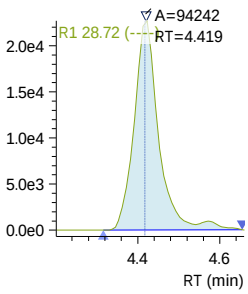
PFHxA-13C_IS
Conc 5.0000
ISTD 314.90>270.10 (-) 9.23e5



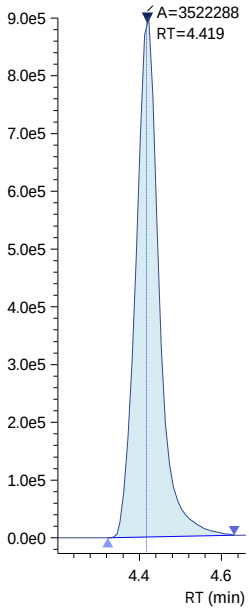
PFHpA
Conc 0.4152
R#1 28.72 (26.69)
Q 362.90>319.00 (-) 8.29e4



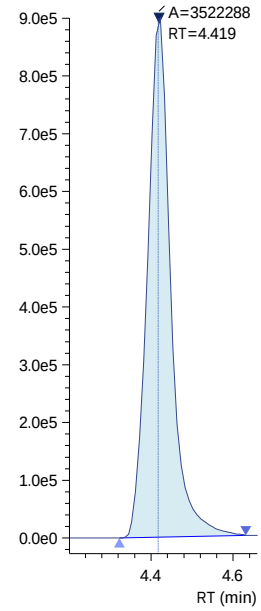
R1 362.90>169.00 (-) 2.27e4

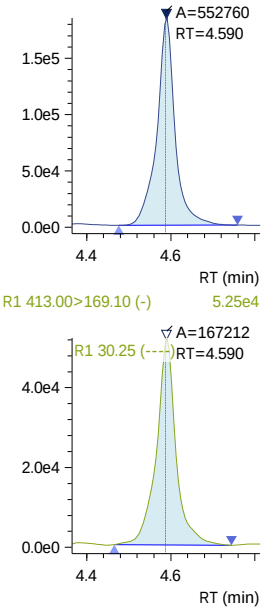


PFHpA-13C
Conc 5.0993
Q 366.90>322.10 (-) 9.00e5

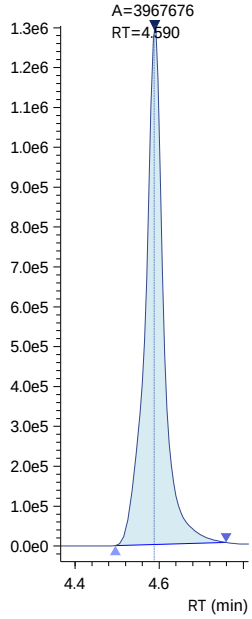


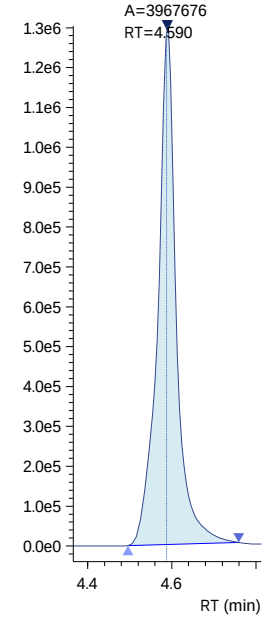
210819_022 (continued)

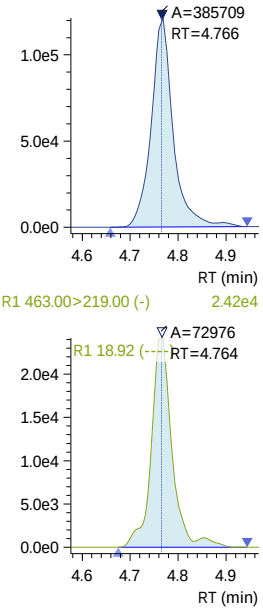
PFHpA-13C_IS
Conc 5.0000
ISTD 366.90>322.10 (-) 9.00e5


PFOA
Conc 0.4696
R#1 30.25 (31.31)
Q 413.00>369.00 (-) 1.86e5


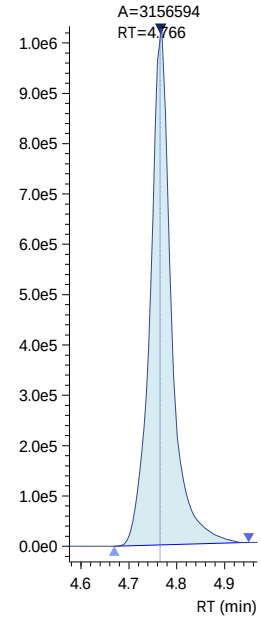
R1 413.00>169.10 (-) 5.25e4

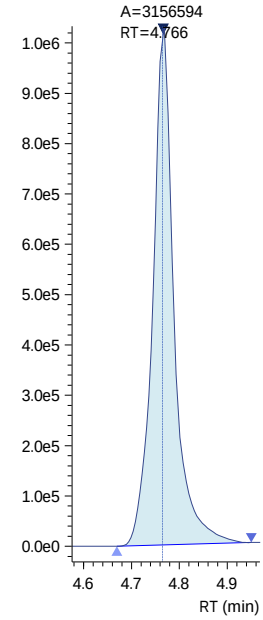
PFOA-13C
Conc 5.1597
Q 416.80>372.05 (-) 1.30e6


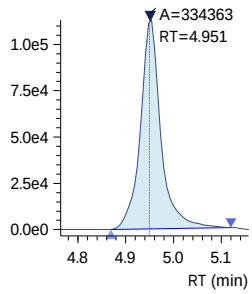
PFOA-13C_IS
Conc 5.0000
ISTD 416.80>372.05 (-) 1.30e6


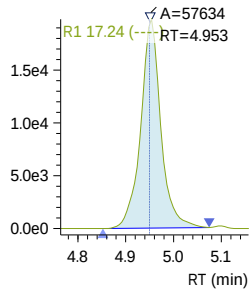
PFNA
Conc 0.4912
R#1 18.92 (20.54)
Q 463.00>418.90 (-) 1.21e5


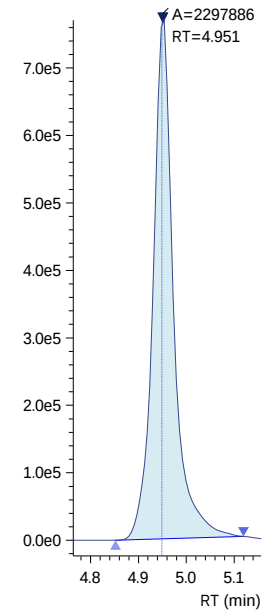
R1 463.00>219.00 (-) 2.42e4

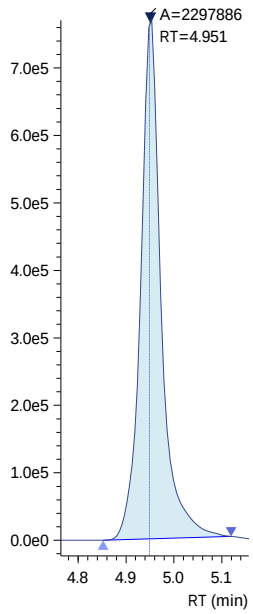
PFNA-13C
Conc 5.3813
Q 467.80>423.00 (-) 1.03e6


PFNA-13C_IS
Conc 5.0000
ISTD 467.80>423.00 (-) 1.03e6


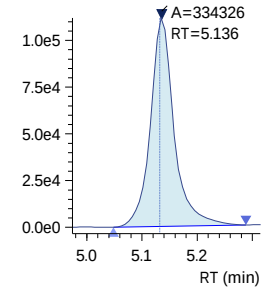
PFDA
Conc 0.4865
R#1 17.24 (20.01)
Q 513.00>468.80 (-) 1.13e5


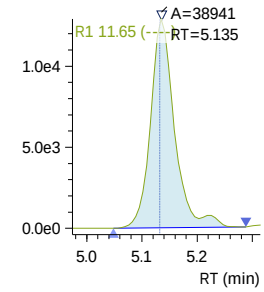
R1 513.00>219.10 (-) 1.98e4


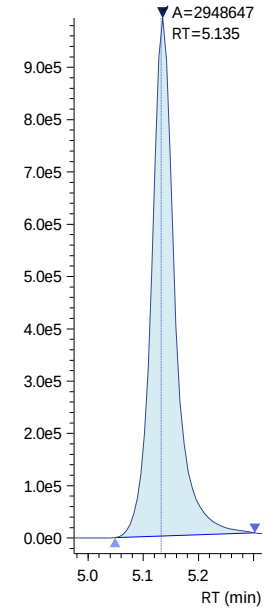
PFDA-13C
Conc 5.3001
Q 514.80>469.95 (-) 7.71e5


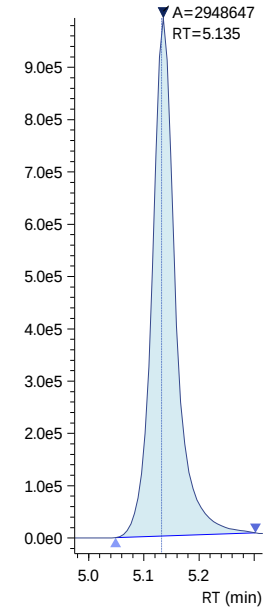
PFDA-13C_IS
Conc 5.0000
ISTD 514.80>469.95 (-) 7.71e5


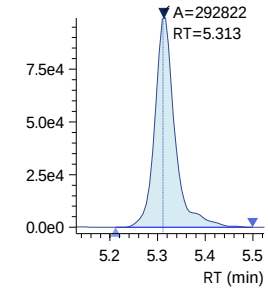
210819_022 (continued)

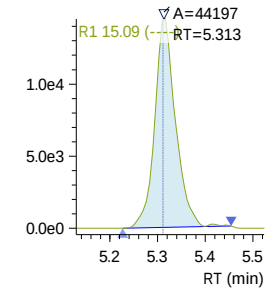
PFUnA
Conc 0.4746
R#1 11.65 (13.39)
Q 563.00>518.90 (-) 1.12e5


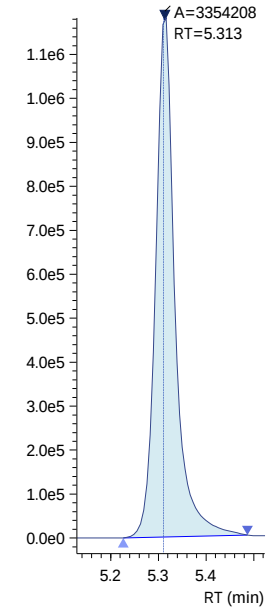
R1 563.00>219.00 (-) 1.29e4


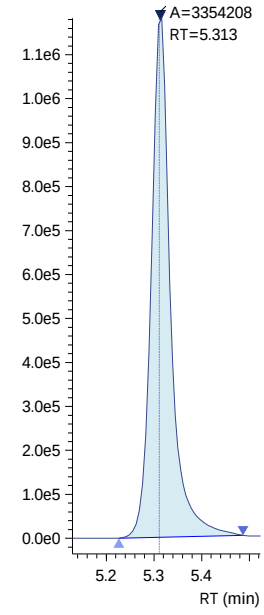
PFUnA-13C
Conc 5.1045
Q 564.80>519.95 (-) 9.94e5


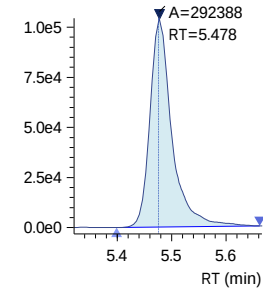
PFUnA-13C_IS
Conc 5.0000
ISTD 564.80>519.95 (-) 9.94e5


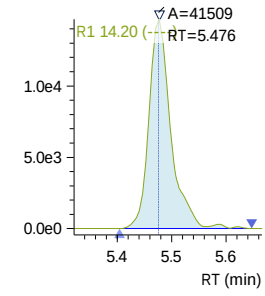
PFDoA
Conc 0.4473
R#1 15.09 (16.84)
Q 613.05>569.00 (-) 9.93e4


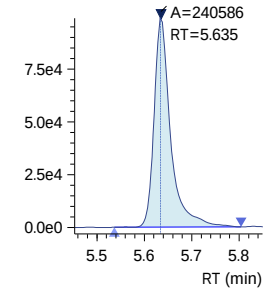
R1 613.05>169.00 (-) 1.45e4


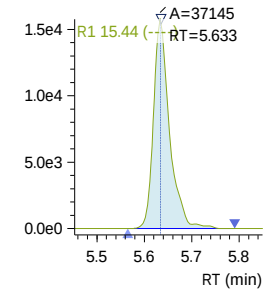
PFDoA-13C
Conc 5.3008
Q 614.80>569.95 (-) 1.18e6


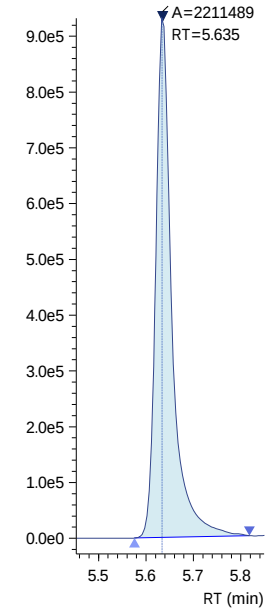
PFDoA-13C_IS
Conc 5.0000
ISTD 614.80>569.95 (-) 1.18e6


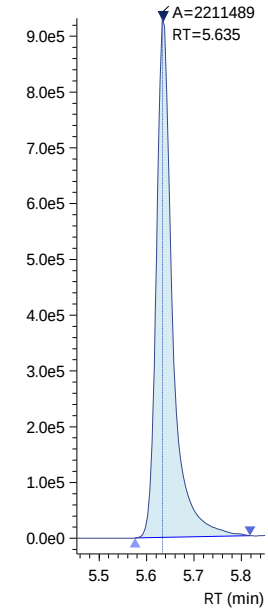
PFTrDA
Conc 0.4453
R#1 14.20 (16.76)
Q 663.00>618.90 (-) 1.04e5


R1 662.90>169.00 (-) 1.47e4


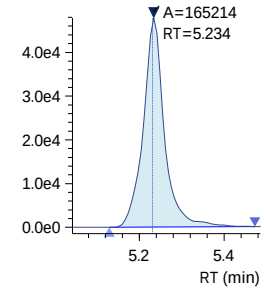
PFTeDA
Conc 0.4756
R#1 15.44 (16.56)
Q 713.00>669.00 (-) 9.91e4


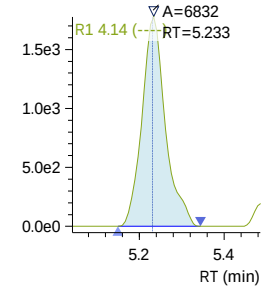
R1 713.00>169.10 (-) 1.58e4


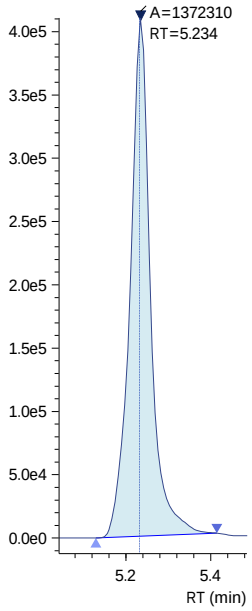
PFTeDA-13C
Conc 5.1644
Q 714.70>669.90 (-) 9.32e5


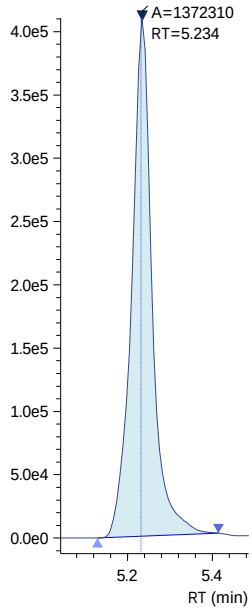
PFTeDA-13C_IS
Conc 5.0000
ISTD 714.70>669.90 (-) 9.32e5


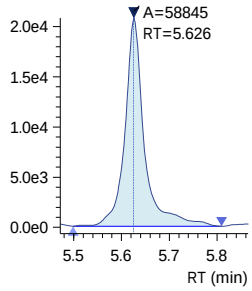
210819_022 (continued)

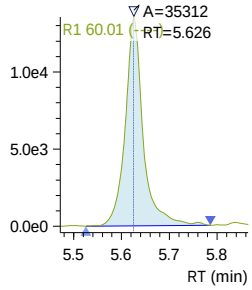
FOSA
Conc 0.4642
R#1 4.14 (4.59)
Q 498.20>78.00 (-) 4.79e4


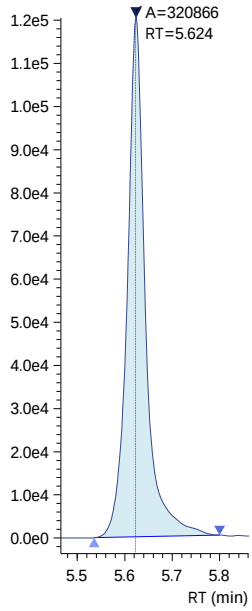
R1 498.20>64.10 (-) 1.78e3


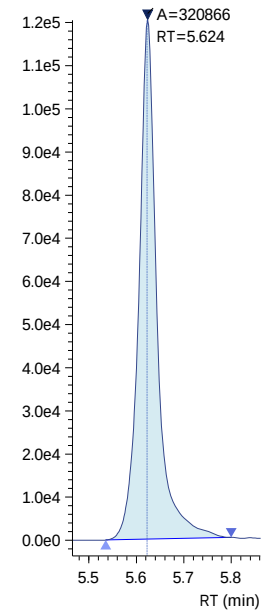
FOSA-13C
Conc 5.0324
Q 506.00>78.05 (-) 4.11e5


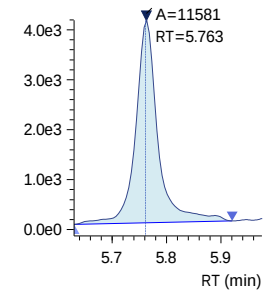
FOSA-13C_IS
Conc 5.0000
ISTD 506.00>78.05 (-) 4.11e5


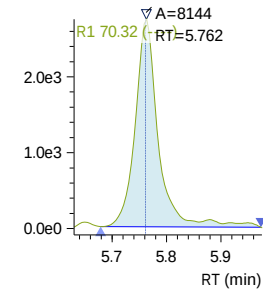
N-MeFOSA
Conc 0.4462
R#1 60.01 (68.73)
Q 512.00>169.10 (-) 2.09e4


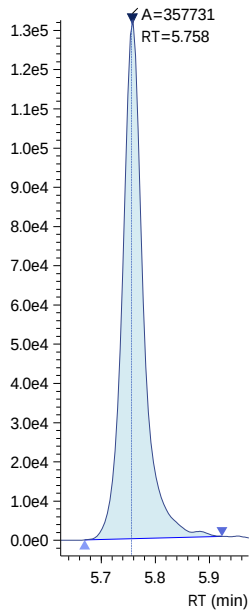
R1 512.00>219.00 (-) 1.36e4


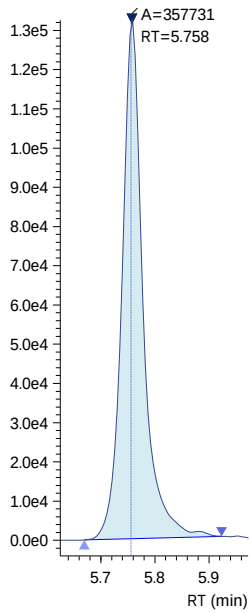
N-MeFOSA-d3
Conc 5.0604
Q 514.90>168.90 (-) 1.21e5


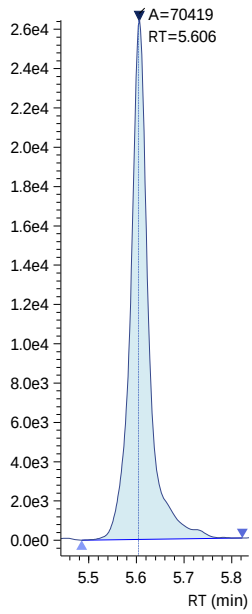
N-MeFOSA-d3_IS
Conc 5.0000
ISTD 514.90>168.90 (-) 1.21e5


N-MeFOSA
Conc 0.5042
R#1 70.32 (62.10)
Q 526.90>169.10 (-) 4.19e3


R1 526.90>219.00 (-) 2.76e3


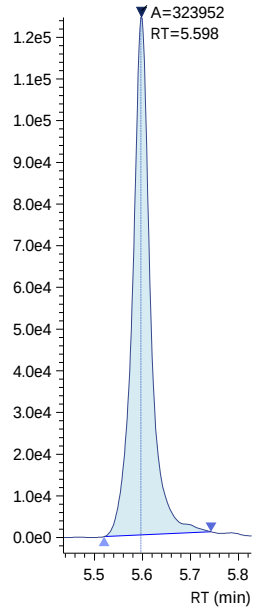
N-EtFOSA-d9
Conc 4.9654
Q 530.90>169.15 (-) 1.33e5


N-EtFOSA-d9_IS
Conc 5.0000
ISTD 530.90>169.15 (-) 1.33e5


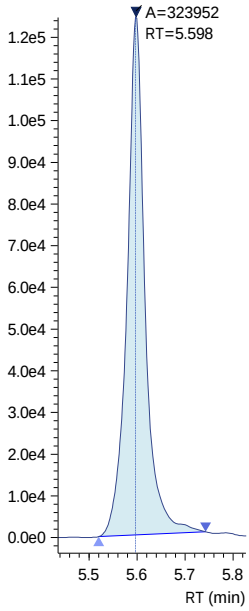
N-MeFOSE
Conc 0.4855
Q 616.00>59.00 (-) 2.65e4


210819_022 (continued)

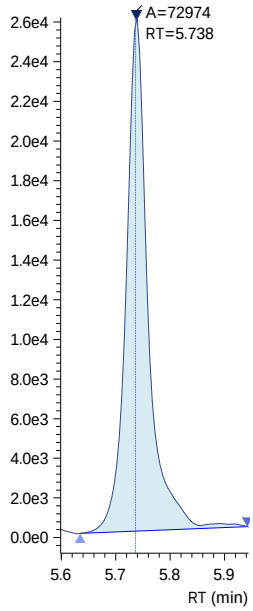
N-MeFOSE-d7
Conc 5.1090
Q 622.70>59.10 (-) 1.25e5



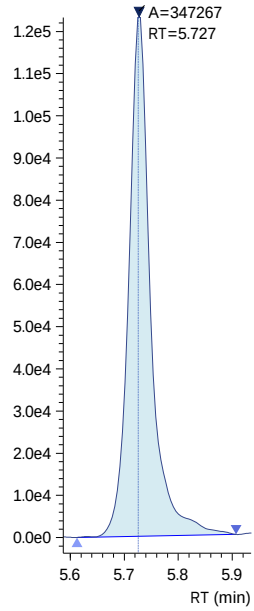
N-MeFOSE-d7_IS
Conc 5.0000
ISTD 622.70>59.10 (-) 1.25e5



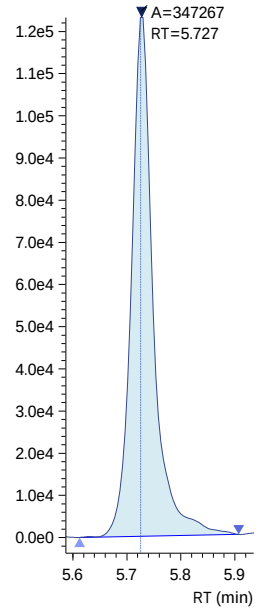
N-EtFOSE
Conc 0.4467
Q 630.00>58.90 (-) 2.62e4



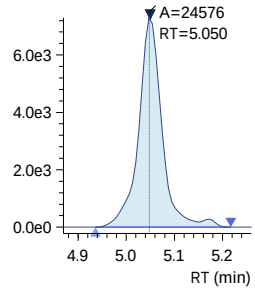
N-EtFOSE-d9
Conc 5.2899
Q 638.70>59.10 (-) 1.23e5



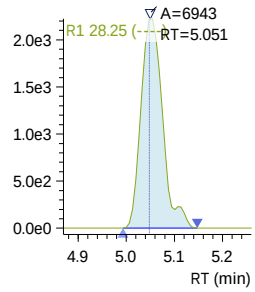
N-EtFOSE-d9_IS
Conc 5.0000
ISTD 638.70>59.10 (-) 1.23e5



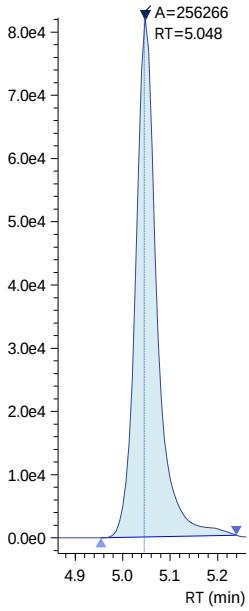
N-MeFOSAA
Conc 0.5052
R#1 28.25 (52.81)
Q 570.20>419.00 (-) 7.30e3



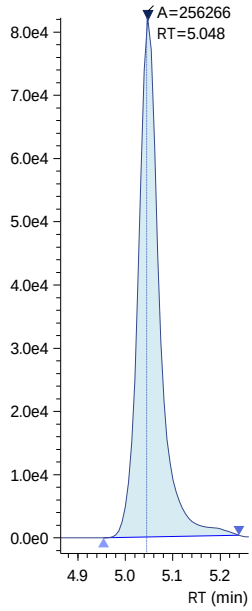
R1 570.20>512.00 (-) 2.22e3



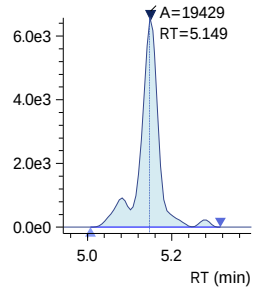
N-MeFOSAA-d3
Conc 4.9464
Q 572.80>419.05 (-) 8.23e4



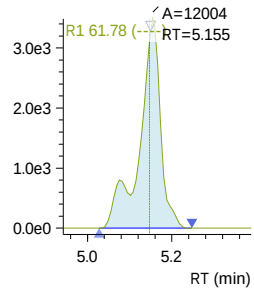
N-MeFOSAA-d3_IS
Conc 5.0000
ISTD 572.80>419.05 (-) 8.23e4



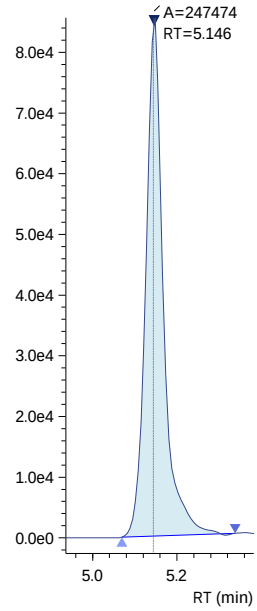
N-EtFOSAA
Conc 0.4721
R#1 61.78 (86.68)
Q 584.20>418.95 (-) 6.57e3



R1 584.20>526.10 (-) 3.49e3

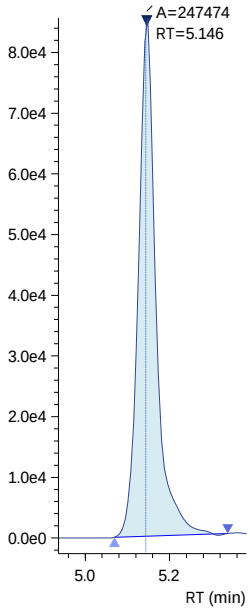


N-EtFOSAA-d5
Conc 5.1096
Q 588.80>419.00 (-) 8.57e4

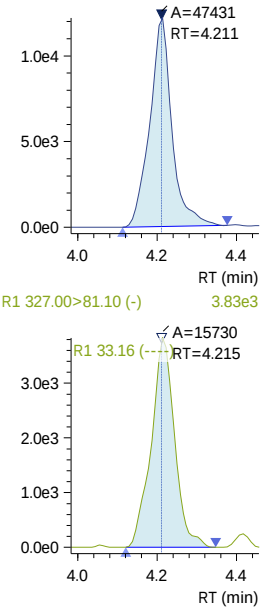


210819_022 (continued)

N-EtFOSAA-d5_IS
Conc 5.0000
ISTD 588.80>419.00 (-) 8.57e4

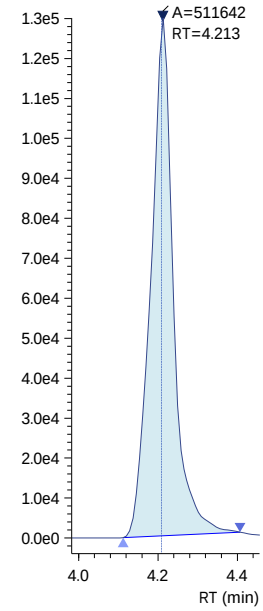


4_2-FTS_1
Conc 0.4627
R#1 33.16 (33.17)
Q 327.00>307.05 (-) 1.22e4

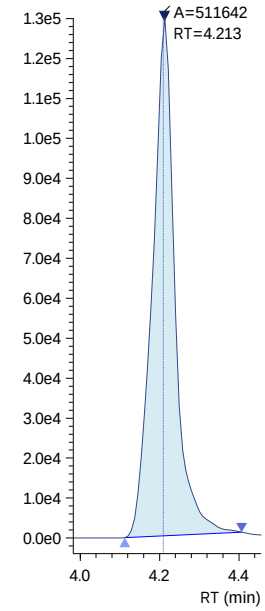


R1 327.00>81.10 (-) 3.83e3

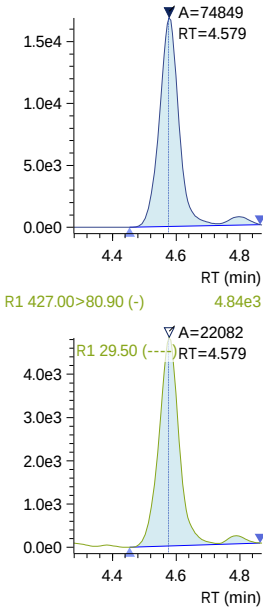
4_2-FTS-13C
Conc 4.8499
Q 328.80>309.05 (-) 1.30e5



4_2-FTS-13C_IS
Conc 5.0000
ISTD 328.80>309.05 (-) 1.30e5

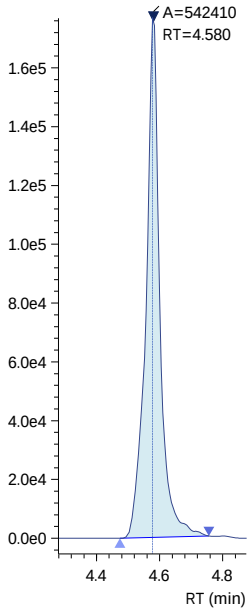


6_2-FTS_1
Conc 0.4880
R#1 29.50 (31.24)
Q 427.00>407.00 (-) 1.69e4

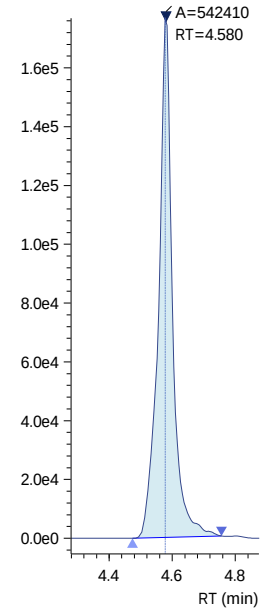


R1 427.00>80.90 (-) 4.84e3

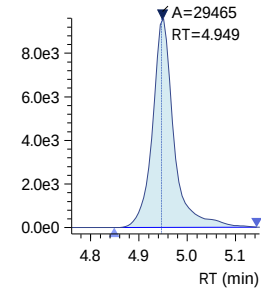
6_2-FTS-13C
Conc 5.4425
Q 428.90>409.00 (-) 1.77e5



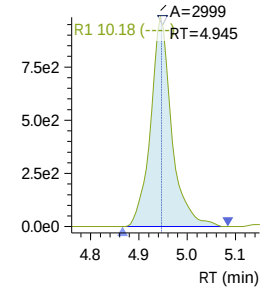
6_2-FTS-13C_IS
Conc 5.0000
ISTD 428.90>409.00 (-) 1.77e5



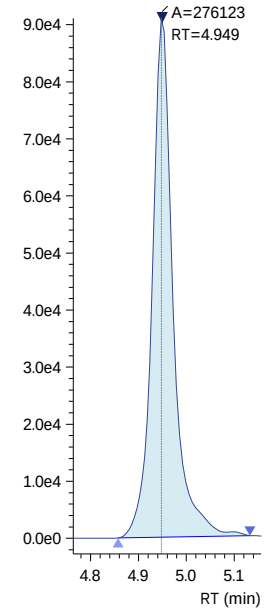
8_2-FTS_1
Conc 0.4588
R#1 10.18 (9.11)
Q 527.10>506.90 (-) 9.61e3



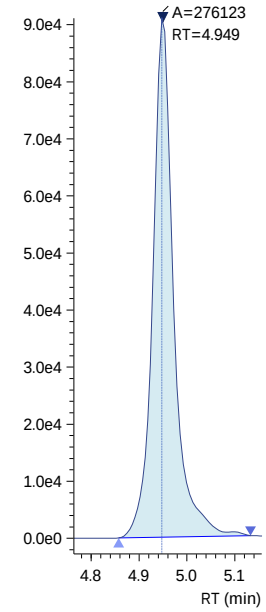
R1 527.20>487.00 (-) 9.84e2



8_2-FTS-13C
Conc 5.2054
Q 528.80>509.00 (-) 9.11e4

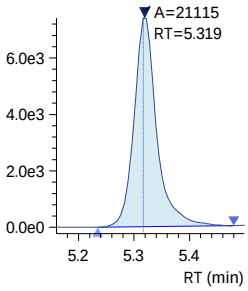


8_2-FTS-13C_IS
Conc 5.0000
ISTD 528.80>509.00 (-) 9.11e4

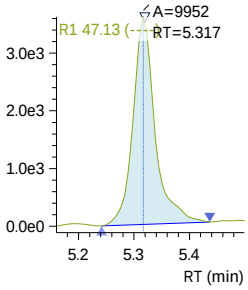


210819_022 (continued)

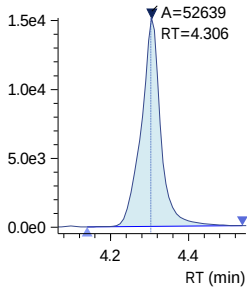
10_2-FtS_1
Conc 0.4722
R#1 47.13 (50.91)
Q 627.00>606.95 (-) 7.42e3



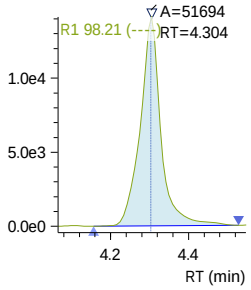
R1 627.00>81.25 (-) 3.63e3



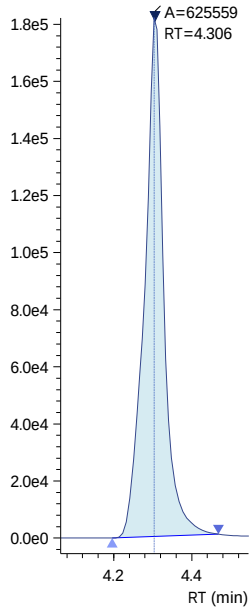
HPFO_DA
Conc 0.4544
R#1 98.21 (109.48)
Q 329.00>169.00 (-) 1.52e4



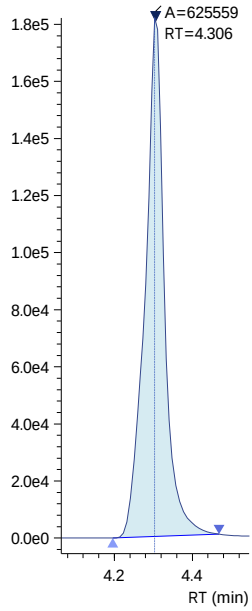
R1 329.00>285.10 (-) 1.41e4



HFPO_DA-13C
Conc 5.2738
Q 332.00>286.80 (-) 1.82e5



HFPO_DA-13C_IS
Conc 5.0000
ISTD 332.00>286.80 (-) 1.82e5



Insight Report
Retention Time/Signal:Noise Ratio Confirmation
Printed 8/20/2021 11:18:22

210819_023

Sample ID: PFC ICAL @ 1.0ppb
Date Acquired: 8/19/2021 7:10:46 PM
Acquired by: System Administrator
Data File: 210819_023
Vial: 4 | Inj. Volume: 15.0000uL | Tray: 0

Name	m/z	Ref 1 m/z	Found RT	RT Diff	ISTD RT Diff	S/N	Ref 1 S/N	Flag ID
13C7-PFUnDA_IS	570.00>525.00	----	5.132	0.000	----	118509	----	
PFBS_1	299.00>80.00	298.80>99.00	4.033	0.000	0.000	4940	4624	
PFBS-13C	301.80>80.00	----	4.033	0.000	-1.099	(INF)	----	
PFBS-13C_IS	301.80>80.00	----	4.033	0.000	----	(INF)	----	
PFPeS	349.00>99.00	349.00>79.95	4.253	0.000	0.220	1176	(INF)	
PFHxS_1	399.00>80.00	399.00>99.00	4.414	0.000	-0.004	688	501	
PFHxS-18O	402.70>84.05	----	4.418	0.000	-0.714	(INF)	----	
PFHxS-18O_IS	402.70>84.05	----	4.418	0.000	----	(INF)	----	
PFHpS_1	449.00>80.15	449.00>99.20	4.581	0.000	0.163	2078	(INF)	
PFOS_1	499.00>80.00	499.00>99.00	4.752	0.000	0.000	1550	563	
PFOS-13C	502.80>80.05	----	4.752	0.000	-0.380	(INF)	----	
PFOS-13C_IS	502.80>80.05	----	4.752	0.000	----	(INF)	----	
PFNS	549.00>99.00	549.00>79.95	4.933	0.000	0.181	509	5952	
PFDS_1	599.00>79.90	599.00>99.10	5.111	0.000	0.359	(INF)	36762	
PFBA	213.00>169.10	----	3.426	0.000	0.001	2193	----	
PFBA-13C	216.90>172.15	----	3.425	0.000	-1.707	5962	----	
PFBA-13C_IS	216.90>172.15	----	3.425	0.000	----	5962	----	
PFPeA	263.05>219.10	----	3.979	0.000	0.000	1641	----	
PFPeA-13C	267.90>223.00	----	3.979	0.000	-1.153	6587	----	
PFPeA-13C_IS	267.90>223.00	----	3.979	0.000	----	6587	----	
PFHxA	313.00>269.00	313.00>119.10	4.236	0.000	0.000	2775	(INF)	
PFHxA-13C	314.90>270.10	----	4.236	0.000	-0.896	14468	----	
PFHxA-13C_IS	314.90>270.10	----	4.236	0.000	----	14468	----	
PFHpA	362.90>319.00	362.90>169.00	4.417	0.000	0.000	(INF)	(INF)	
PFHpA-13C	366.90>322.10	----	4.417	0.000	-0.715	27619	----	
PFHpA-13C_IS	366.90>322.10	----	4.417	0.000	----	27619	----	
PFOA	413.00>369.00	413.00>169.10	4.588	0.000	0.000	2042	971	
PFOA-13C	416.80>372.05	----	4.588	0.000	-0.544	21903	----	
PFOA-13C_IS	416.80>372.05	----	4.588	0.000	----	21903	----	
PFNA	463.00>418.90	463.00>219.00	4.765	0.000	0.000	1524	(INF)	
PFNA-13C	467.80>423.00	----	4.765	0.000	-0.367	121282	----	
PFNA-13C_IS	467.80>423.00	----	4.765	0.000	----	121282	----	
PFDA	513.00>468.80	513.00>219.10	4.949	0.000	0.000	22134	10613	
PFDA-13C	514.80>469.95	----	4.949	0.000	-0.183	673613	----	
PFDA-13C_IS	514.80>469.95	----	4.949	0.000	----	673613	----	
PFUnA	563.00>518.90	563.00>219.00	5.133	0.000	0.001	7097	(INF)	
PFUnA-13C	564.80>519.95	----	5.132	0.000	0.000	69192	----	
PFUnA-13C_IS	564.80>519.95	----	5.132	0.000	----	69192	----	
PFDoA	613.05>569.00	613.05>169.00	5.311	0.000	0.000	(INF)	(INF)	
PFDoA-13C	614.80>569.95	----	5.311	0.000	0.179	(INF)	----	
PFDoA-13C_IS	614.80>569.95	----	5.311	0.000	----	(INF)	----	
PFTrDA	663.00>618.90	662.90>169.00	5.476	0.000	-0.158	(INF)	(INF)	
PFTeDA	713.00>669.00	713.00>169.10	5.634	0.000	0.000	2950	(INF)	
PFTeDA-13C	714.70>669.90	----	5.634	0.000	0.502	9325	----	
PFTeDA-13C_IS	714.70>669.90	----	5.634	0.000	----	8823	----	
FOSA	498.20>78.00	498.20>64.10	5.231	0.000	0.000	(INF)	(INF)	
FOSA-13C	506.00>78.05	----	5.231	0.000	0.099	1600	----	
FOSA-13C_IS	506.00>78.05	----	5.231	0.000	----	1600	----	
N-MeFOSA	512.00>169.10	512.00>219.00	5.625	0.000	0.003	(INF)	(INF)	
N-MeFOSA-d3	514.90>168.90	----	5.622	0.000	0.490	471	----	
N-MeFOSA-d3_IS	514.90>168.90	----	5.622	0.000	----	471	----	

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SN - Software-calculated S/N ratio outside criteria due to non-target peaks or drift in noise calculation window. Analyst review of noise levels (excluding non-target peaks) in chromatogram indicates S/N ratio meets criteria.

210819_023 (continued)

(Table continued from previous page)

Name	m/z	Ref 1 m/z	Found RT	RT Diff	ISTD RT Diff	S/N	Ref 1 S/N	Flag ID
N-EtFOSA	526.90>169.10	526.90>219.00	5.761	0.000	0.005	(INF)	(INF)	
N-EtFOSA-d9	530.90>169.15	----	5.756	0.000	0.624	(INF)	----	
N-EtFOSA-d9_IS	530.90>169.15	----	5.756	0.000	----	(INF)	----	
N-MeFOSE	616.00>59.00	----	5.605	0.000	0.008	(INF)	----	
N-MeFOSE-d7	622.70>59.10	----	5.597	0.000	0.465	387	----	
N-MeFOSE-d7_IS	622.70>59.10	----	5.597	0.000	----	387	----	
N-EtFOSE	630.00>58.90	----	5.736	0.000	0.010	(INF)	----	
N-EtFOSE-d9	638.70>59.10	----	5.726	0.000	0.594	52695	----	
N-EtFOSE-d9_IS	638.70>59.10	----	5.726	0.000	----	52695	----	
N-MeFOSAA	570.20>419.00	570.20>512.00	5.048	0.000	0.003	(INF)	(INF)	
N-MeFOSAA-d3	572.80>419.05	----	5.045	0.000	-0.087	(INF)	----	
N-MeFOSAA-d3_IS	572.80>419.05	----	5.045	0.000	----	(INF)	----	
N-EtFOSAA	584.20>418.95	584.20>526.10	5.148	0.000	0.004	(INF)	(INF)	
N-EtFOSAA-d5	588.80>419.00	----	5.144	0.000	0.012	(INF)	----	
N-EtFOSAA-d5_IS	588.80>419.00	----	5.144	0.000	----	(INF)	----	
4_2-FTS_1	327.00>307.05	327.00>81.10	4.210	0.000	0.000	(INF)	(INF)	
4_2-FTS-13C	328.80>309.05	----	4.210	0.000	-0.922	(INF)	----	
4_2-FTS-13C_IS	328.80>309.05	----	4.210	0.000	----	(INF)	----	
6_2-FTS_1	427.00>407.00	427.00>80.90	4.576	0.000	-0.002	(INF)	360	
6_2-FTS-13C	428.90>409.00	----	4.578	0.000	-0.554	(INF)	----	
6_2-FTS-13C_IS	428.90>409.00	----	4.578	0.000	----	(INF)	----	
8_2-FTS_1	527.10>506.90	527.20>487.00	4.947	0.000	0.000	(INF)	(INF)	
8_2-FTS-13C	528.80>509.00	----	4.947	0.000	-0.185	20688	----	
8_2-FTS-13C_IS	528.80>509.00	----	4.947	0.000	----	20688	----	
10_2-FtS_1	627.00>606.95	627.00>81.25	5.317	0.000	0.370	(INF)	(INF)	
HPFO_DA	329.00>169.00	329.00>285.10	4.303	0.000	-0.001	2655	1939	
HFPO_DA-13C	332.00>286.80	----	4.304	0.000	-0.828	23509	----	
HFPO_DA-13C_IS	332.00>286.80	----	4.304	0.000	----	23509	----	

SN - Software-calculated S/N ratio outside criteria due to non-target peaks or drift in noise calculation window. Analyst review of noise levels (excluding non-target peaks) in chromatogram indicates S/N ratio meets criteria.

Insight Report
Ion Ratio Confirmation
Printed 8/20/2021 11:19:20

210819_023

Sample ID: PFC ICAL @ 1.0ppb
Date Acquired: 8/19/2021 7:10:46 PM
Acquired by: System Administrator
Data File: 210819_023
Vial: 4 | Inj. Volume: 15.0000uL | Tray: 0

Name	m/z	Ref 1 m/z	Area	Ref 1 Measured	Ref 1 Actual Ratio	Ref 1 Set Ratio	Comment 1	Flag ID
13C7-PFUnDA_IS	570.00>525.00	----	4421202	----	----	----		
PFBS_1	299.00>80.00	298.80>99.00	154476	71821	46.49	47.76	23.88-71.64	
PFBS-13C	301.80>80.00	----	432085	----	----	----	0-0	
PFBS-13C_IS	301.80>80.00	----	432085	----	----	----	0-0	
PFPeS	349.00>99.00	349.00>79.95	85354	128409	150.44	136.08	68.04 -204.13	
PFHxS_1	399.00>80.00	399.00>99.00	100994	69698	69.01	71.26	35.63 -106.89	
PFHxS-18O	402.70>84.05	----	295465	----	----	----	0-0	
PFHxS-18O_IS	402.70>84.05	----	295465	----	----	----	0-0	
PFHpS_1	449.00>80.15	449.00>99.20	119013	66718	56.06	53.84	26.92-80.76	
PFOS_1	499.00>80.00	499.00>99.00	68117	63886	93.79	86.72	43.36 -130.08	
PFOS-13C	502.80>80.05	----	374644	----	----	----	0-0	
PFOS-13C_IS	502.80>80.05	----	374644	----	----	----	0-0	
PFNS	549.00>99.00	549.00>79.95	61448	81740	133.02	129.18	64.59 -193.78	
PFDS_1	599.00>79.90	599.00>99.10	93193	77591	83.26	90.77	45.38 -136.15	
PFBA	213.00>169.10	----	389031	----	----	----		
PFBA-13C	216.90>172.15	----	1754390	----	----	----		
PFBA-13C_IS	216.90>172.15	----	1754390	----	----	----		
PFPeA	263.05>219.10	----	692591	----	----	----		
PFPeA-13C	267.90>223.00	----	1170155	----	----	----	0-0	
PFPeA-13C_IS	267.90>223.00	----	1170155	----	----	----	0-0	
PFHxA	313.00>269.00	313.00>119.10	957981	38003	3.97	4.17	2.08-6.25	
PFHxA-13C	314.90>270.10	----	3351090	----	----	----	0-0	
PFHxA-13C_IS	314.90>270.10	----	3351090	----	----	----	0-0	
PFHpA	362.90>319.00	362.90>169.00	817164	193368	23.66	26.04	13.02-39.07	
PFHpA-13C	366.90>322.10	----	3325507	----	----	----	0-0	
PFHpA-13C_IS	366.90>322.10	----	3325507	----	----	----	0-0	
PFOA	413.00>369.00	413.00>169.10	1127424	340366	30.19	30.35	15.18-45.53	
PFOA-13C	416.80>372.05	----	3677240	----	----	----	0-0	
PFOA-13C_IS	416.80>372.05	----	3677240	----	----	----	0-0	
PFNA	463.00>418.90	463.00>219.00	738547	160504	21.73	22.35	11.18-33.53	
PFNA-13C	467.80>423.00	----	2810529	----	----	----	0-0	
PFNA-13C_IS	467.80>423.00	----	2810529	----	----	----	0-0	
PFDA	513.00>468.80	513.00>219.10	633603	116393	18.37	18.73	9.36-28.09	
PFDA-13C	514.80>469.95	----	2035819	----	----	----	0-0	
PFDA-13C_IS	514.80>469.95	----	2035819	----	----	----	0-0	
PFUnA	563.00>518.90	563.00>219.00	679491	84848	12.49	11.60	5.8-17.4	
PFUnA-13C	564.80>519.95	----	2775676	----	----	----	0-0	
PFUnA-13C_IS	564.80>519.95	----	2775676	----	----	----	0-0	
PFDoA	613.05>569.00	613.05>169.00	559283	98307	17.58	15.11	7.55-22.66	
PFDoA-13C	614.80>569.95	----	2899058	----	----	----	0-0	
PFDoA-13C_IS	614.80>569.95	----	2899058	----	----	----	0-0	
PFTrDA	663.00>618.90	662.90>169.00	606881	90435	14.90	14.19	7.09-21.28	
PFTeDA	713.00>669.00	713.00>169.10	440670	71665	16.26	14.98	7.49-22.46	
PFTeDA-13C	714.70>669.90	----	1938015	----	----	----	0-0	
PFTeDA-13C_IS	714.70>669.90	----	1938015	----	----	----	0-0	
FOSA	498.20>78.00	498.20>64.10	345026	19818	5.74	4.89	2.44-7.33	

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Comment 1 field specifies acceptance range for Ref 1 ratio.
IRr - Ion ratio outside criteria. Exceedances for results above the MDL to be "K" flagged in the analytical report.

Insight Report
Ion Ratio Confirmation
Printed 8/20/2021 11:19:20

210819_023 (continued)

(Table continued from previous page)

Name	m/z	Ref 1 m/z	Area	Ref 1 Measured	Ref 1 Actual Ratio	Ref 1 Set Ratio	Comment 1	Flag ID
FOSA-13C	506.00>78.05	----	1307452	----	----	----	0-0	
FOSA-13C_IS	506.00>78.05	----	1307452	----	----	----	0-0	
N-MeFOSA	512.00>169.10	512.00>219.00	125834	80993	64.36	62.72	31.36-94.08	
N-MeFOSA-d3	514.90>168.90	----	311986	----	----	----	0-0	
N-MeFOSA-d3_IS	514.90>168.90	----	311986	----	----	----	0-0	
N-EtFOSA	526.90>169.10	526.90>219.00	24175	15005	62.07	63.35	31.68-95.03	
N-EtFOSA-d9	530.90>169.15	----	349985	----	----	----	0-0	
N-EtFOSA-d9_IS	530.90>169.15	----	349985	----	----	----	0-0	
N-MeFOSE	616.00>59.00	----	139186	----	----	----		
N-MeFOSE-d7	622.70>59.10	----	299338	----	----	----		
N-MeFOSE-d7_IS	622.70>59.10	----	299338	----	----	----		
N-EtFOSE	630.00>58.90	----	155709	----	----	----		
N-EtFOSE-d9	638.70>59.10	----	302760	----	----	----	0-0	
N-EtFOSE-d9_IS	638.70>59.10	----	302760	----	----	----	0-0	
N-MeFOSAA	570.20>419.00	570.20>512.00	47035	13241	28.15	35.26	17.63-52.88	
N-MeFOSAA-d3	572.80>419.05	----	229831	----	----	----	0-0	
N-MeFOSAA-d3_IS	572.80>419.05	----	229831	----	----	----	0-0	
N-EtFOSAA	584.20>418.95	584.20>526.10	38620	37735	97.71	77.25	38.62 -115.87	
N-EtFOSAA-d5	588.80>419.00	----	235894	----	----	----	0-0	
N-EtFOSAA-d5_IS	588.80>419.00	----	235894	----	----	----	0-0	
4_2-FTS_1	327.00>307.05	327.00>81.10	99739	29711	29.79	39.85	19.92-59.77	
4_2-FTS-13C	328.80>309.05	----	475599	----	----	----	0-0	
4_2-FTS-13C_IS	328.80>309.05	----	475599	----	----	----	0-0	
6_2-FTS_1	427.00>407.00	427.00>80.90	133994	39846	29.74	29.95	14.97-44.92	
6_2-FTS-13C	428.90>409.00	----	443900	----	----	----	0-0	
6_2-FTS-13C_IS	428.90>409.00	----	443900	----	----	----	0-0	
8_2-FTS_1	527.10>506.90	527.20>487.00	59260	5553	9.37	9.42	4.71-14.13	
8_2-FTS-13C	528.80>509.00	----	244116	----	----	----	0-0	
8_2-FTS-13C_IS	528.80>509.00	----	244116	----	----	----	0-0	
10_2-FtS_1	627.00>606.95	627.00>81.25	41961	19974	47.60	49.86	24.93-74.78	
HPFO_DA	329.00>169.00	329.00>285.10	104343	111397	106.76	101.52	50.76 -152.28	
HFPO_DA-13C	332.00>286.80	----	554748	----	----	----		
HFPO_DA-13C_IS	332.00>286.80	----	554748	----	----	----		

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Comment 1 field specifies acceptance range for Ref 1 ratio.
IRr - Ion ratio outside criteria. Exceedances for results above the MDL to be "K" flagged in the analytical report.

Insight Report
Quantitation/Integration
Printed 8/20/2021 11:13:44

210819_023

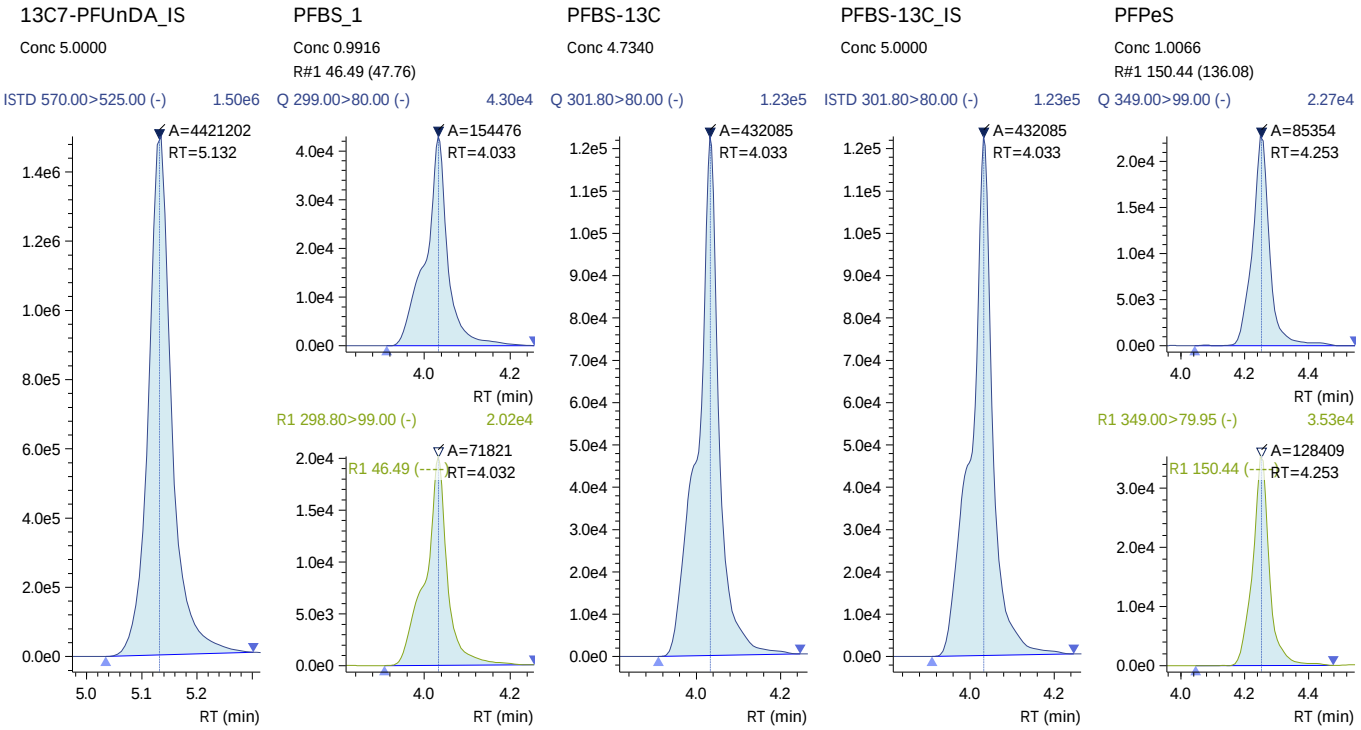
Sample ID: PFC ICAL @ 1.0ppb
Date Acquired: 8/19/2021 7:10:46 PM
Acquired by: System Administrator
Data File: 210819_023
Vial: 4 | Inj. Volume: 15.0000uL | Tray: 0

Name	Mode ID	Found RT	Area	ISTD Area	ISTD Name	Std. Conc.	Conc.	Unit
13C7-PFUnDA_IS	Auto	5.132	4421202	4421202	----	5.0000	5.0000	ng/mL
PFBS_1	Auto	4.033	154476	432085	PFBS-13C_IS	0.8874	0.9916	ng/mL
PFBS-13C	Auto	4.033	432085	4421202	13C7-PFUnDA_IS	5.0000	4.7340	ng/mL
PFBS-13C_IS	Auto	4.033	432085	432085	----	5.0000	5.0000	ng/mL
PFPeS	Auto	4.253	85354	432085	PFBS-13C_IS	0.9409	1.0066	ng/mL
PFHxS_1	Auto	4.414	100994	295465	PFHxS-18O_IS	0.9131	1.0072	ng/mL
PFHxS-18O	Auto	4.418	295465	4421202	13C7-PFUnDA_IS	5.0000	4.7476	ng/mL
PFHxS-18O_IS	Auto	4.418	295465	295465	----	5.0000	5.0000	ng/mL
PFHpS_1	Auto	4.581	119013	295465	PFHxS-18O_IS	0.9534	0.9597	ng/mL
PFOS_1	Auto	4.752	68117	374644	PFOS-13C_IS	0.9292	0.9665	ng/mL
PFOS-13C	Auto	4.752	374644	4421202	13C7-PFUnDA_IS	5.0000	4.8436	ng/mL
PFOS-13C_IS	Auto	4.752	374644	374644	----	5.0000	5.0000	ng/mL
PFNS	Auto	4.933	61448	374644	PFOS-13C_IS	0.9616	0.9641	ng/mL
PFDS_1	Auto	5.111	93193	374644	PFOS-13C_IS	0.9647	1.0181	ng/mL
PFBA	M	3.426	389031	1754390	PFBA-13C_IS	1.0000	0.9060	ng/mL
PFBA-13C	Auto	3.425	1754390	4421202	13C7-PFUnDA_IS	5.0000	4.8585	ng/mL
PFBA-13C_IS	Auto	3.425	1754390	1754390	----	5.0000	5.0000	ng/mL
PFPeA	Auto	3.979	692591	1170155	PFPeA-13C_IS	1.0000	0.9306	ng/mL
PFPeA-13C	Auto	3.979	1170155	4421202	13C7-PFUnDA_IS	5.0000	4.9172	ng/mL
PFPeA-13C_IS	Auto	3.979	1170155	1170155	----	5.0000	5.0000	ng/mL
PFHxA	Auto	4.236	957981	3351090	PFHxA-13C_IS	1.0000	1.0551	ng/mL
PFHxA-13C	Auto	4.236	3351090	4421202	13C7-PFUnDA_IS	5.0000	5.1145	ng/mL
PFHxA-13C_IS	Auto	4.236	3351090	3351090	----	5.0000	5.0000	ng/mL
PFHpA	Auto	4.417	817164	3325507	PFHpA-13C_IS	1.0000	1.1300	ng/mL
PFHpA-13C	Auto	4.417	3325507	4421202	13C7-PFUnDA_IS	5.0000	4.9990	ng/mL
PFHpA-13C_IS	Auto	4.417	3325507	3325507	----	5.0000	5.0000	ng/mL
PFOA	Auto	4.588	1127424	3677240	PFOA-13C_IS	1.0000	0.9975	ng/mL
PFOA-13C	Auto	4.588	3677240	4421202	13C7-PFUnDA_IS	5.0000	4.9654	ng/mL
PFOA-13C_IS	Auto	4.588	3677240	3677240	----	5.0000	5.0000	ng/mL
PFNA	Auto	4.765	738547	2810529	PFNA-13C_IS	1.0000	1.0646	ng/mL
PFNA-13C	Auto	4.765	2810529	4421202	13C7-PFUnDA_IS	5.0000	4.9751	ng/mL
PFNA-13C_IS	Auto	4.765	2810529	2810529	----	5.0000	5.0000	ng/mL
PFDA	Auto	4.949	633603	2035819	PFDA-13C_IS	1.0000	1.0405	ng/mL
PFDA-13C	Auto	4.949	2035819	4421202	13C7-PFUnDA_IS	5.0000	4.8756	ng/mL
PFDA-13C_IS	Auto	4.949	2035819	2035819	----	5.0000	5.0000	ng/mL
PFUnA	Auto	5.133	679491	2775676	PFUnA-13C_IS	1.0000	1.0248	ng/mL
PFUnA-13C	Auto	5.132	2775676	4421202	13C7-PFUnDA_IS	5.0000	4.9893	ng/mL
PFUnA-13C_IS	Auto	5.132	2775676	2775676	----	5.0000	5.0000	ng/mL
PFDoA	Auto	5.311	559283	2899058	PFDoA-13C_IS	1.0000	0.9915	ng/mL
PFDoA-13C	Auto	5.311	2899058	4421202	13C7-PFUnDA_IS	5.0000	4.7572	ng/mL
PFDoA-13C_IS	Auto	5.311	2899058	2899058	----	5.0000	5.0000	ng/mL
PFTrDA	Auto	5.476	606881	1938015	PFTeDA-13C_IS	1.0000	1.0547	ng/mL
PFTeDA	Auto	5.634	440670	1938015	PFTeDA-13C_IS	1.0000	1.0114	ng/mL
PFTeDA-13C	Auto	5.634	1938015	4421202	13C7-PFUnDA_IS	5.0000	4.6993	ng/mL
PFTeDA-13C_IS	Auto	5.634	1938015	1938015	----	5.0000	5.0000	ng/mL
FOSA	Auto	5.231	345026	1307452	FOSA-13C_IS	1.0000	1.0383	ng/mL
FOSA-13C	Auto	5.231	1307452	4421202	13C7-PFUnDA_IS	5.0000	4.9784	ng/mL
FOSA-13C_IS	Auto	5.231	1307452	1307452	----	5.0000	5.0000	ng/mL
N-MeFOSA	Auto	5.625	125834	311986	N-MeFOSA-d3_IS	1.0000	1.0774	ng/mL
N-MeFOSA-d3	Auto	5.622	311986	4421202	13C7-PFUnDA_IS	5.0000	5.1090	ng/mL
N-MeFOSA-d3_IS	Auto	5.622	311986	311986	----	5.0000	5.0000	ng/mL
N-EtFOSA	Auto	5.761	24175	349985	N-EtFOSA-d9_IS	1.0000	1.1022	ng/mL
N-EtFOSA-d9	Auto	5.756	349985	4421202	13C7-PFUnDA_IS	5.0000	5.0442	ng/mL
N-EtFOSA-d9_IS	Auto	5.756	349985	349985	----	5.0000	5.0000	ng/mL

210819_023 (continued)

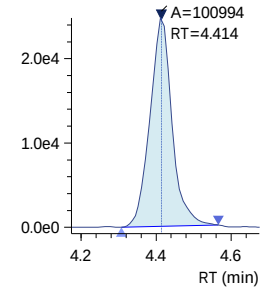
(Table continued from previous page)

Name	Mode ID	Found RT	Area	ISTD Area	ISTD Name	Std. Conc.	Conc.	Unit
N-MeFOSE	Auto	5.605	139186	299338	N-MeFOSE-d7_IS	1.0000	1.0618	ng/mL
N-MeFOSE-d7	Auto	5.597	299338	4421202	13C7-PFUnDA_IS	5.0000	4.9018	ng/mL
N-MeFOSE-d7_IS	Auto	5.597	299338	299338	----	5.0000	5.0000	ng/mL
N-EtFOSE	Auto	5.736	155709	302760	N-EtFOSE-d9_IS	1.0000	1.1239	ng/mL
N-EtFOSE-d9	Auto	5.726	302760	4421202	13C7-PFUnDA_IS	5.0000	4.7887	ng/mL
N-EtFOSE-d9_IS	Auto	5.726	302760	302760	----	5.0000	5.0000	ng/mL
N-MeFOSAA	Auto	5.048	47035	229831	N-MeFOSAA-d3_IS	1.0000	1.0901	ng/mL
N-MeFOSAA-d3	Auto	5.045	229831	4421202	13C7-PFUnDA_IS	5.0000	4.6146	ng/mL
N-MeFOSAA-d3_IS	Auto	5.045	229831	229831	----	5.0000	5.0000	ng/mL
N-EtFOSAA	Auto	5.148	38620	235894	N-EtFOSAA-d5_IS	1.0000	0.9479	ng/mL
N-EtFOSAA-d5	Auto	5.144	235894	4421202	13C7-PFUnDA_IS	5.0000	5.0877	ng/mL
N-EtFOSAA-d5_IS	Auto	5.144	235894	235894	----	5.0000	5.0000	ng/mL
4_2-FTS_1	Auto	4.210	99739	475599	4_2-FTS-13C_IS	0.9372	1.0468	ng/mL
4_2-FTS-13C	Auto	4.210	475599	4421202	13C7-PFUnDA_IS	5.0000	4.6811	ng/mL
4_2-FTS-13C_IS	Auto	4.210	475599	475599	----	5.0000	5.0000	ng/mL
6_2-FTS_1	M	4.576	133994	443900	6_2-FTS-13C_IS	0.9512	1.0852	ng/mL
6_2-FTS-13C	Auto	4.578	443900	4421202	13C7-PFUnDA_IS	5.0000	4.6248	ng/mL
6_2-FTS-13C_IS	Auto	4.578	443900	443900	----	5.0000	5.0000	ng/mL
8_2-FTS_1	Auto	4.947	59260	244116	8_2-FTS-13C_IS	0.9600	1.0437	ng/mL
8_2-FTS-13C	Auto	4.947	244116	4421202	13C7-PFUnDA_IS	5.0000	4.7784	ng/mL
8_2-FTS-13C_IS	Auto	4.947	244116	244116	----	5.0000	5.0000	ng/mL
10_2-FtS_1	Auto	5.317	41961	244116	8_2-FTS-13C_IS	0.9662	1.0683	ng/mL
HFPO_DA	Auto	4.303	104343	554748	HFPO_DA-13C_IS	1.0000	1.0340	ng/mL
HFPO_DA-13C	Auto	4.304	554748	4421202	13C7-PFUnDA_IS	5.0000	4.8562	ng/mL
HFPO_DA-13C_IS	Auto	4.304	554748	554748	----	5.0000	5.0000	ng/mL

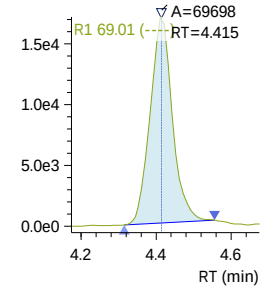


210819_023 (continued)

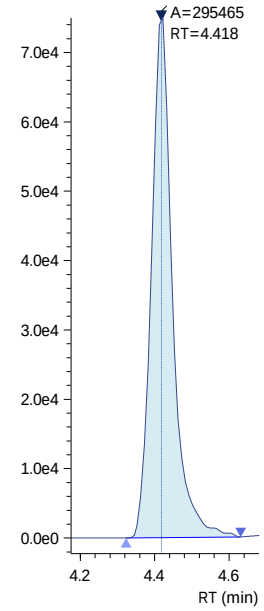
PFHxS_1
Conc 1.0072
R#1 69.01 (71.26)
Q 399.00>80.00 (-) 2.48e4



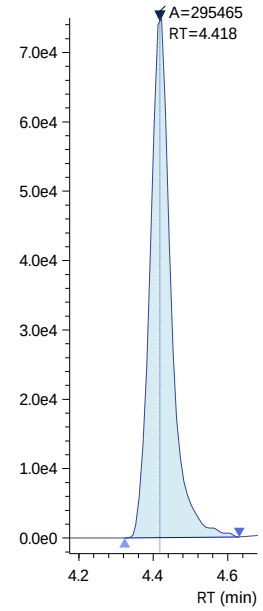
R1 399.00>99.00 (-) 1.72e4



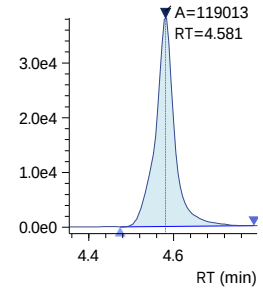
PFHxS-18O
Conc 4.7476
Q 402.70>84.05 (-) 7.50e4



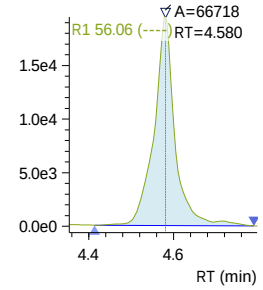
PFHxS-18O_IS
Conc 5.0000
ISTD 402.70>84.05 (-) 7.50e4



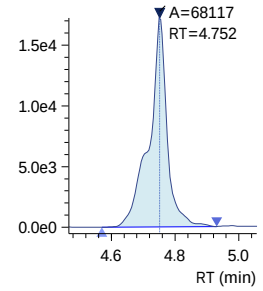
PFHpS_1
Conc 0.9597
R#1 56.06 (53.84)
Q 449.00>80.15 (-) 3.82e4



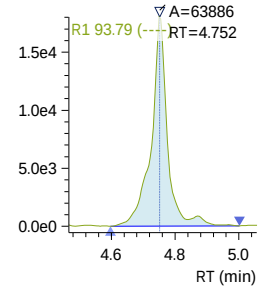
R1 449.00>99.20 (-) 1.95e4



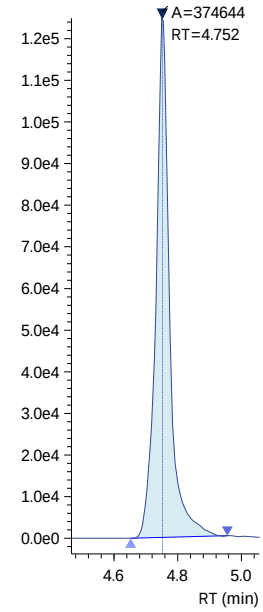
PFOS_1
Conc 0.9665
R#1 93.79 (86.72)
Q 499.00>80.00 (-) 1.72e4



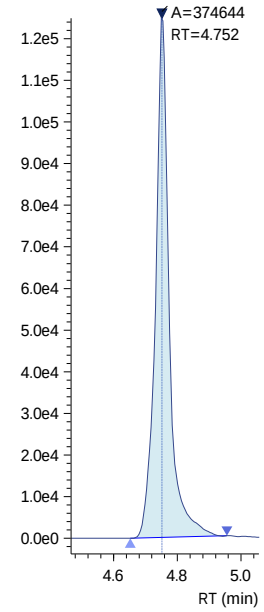
R1 499.00>99.00 (-) 1.80e4



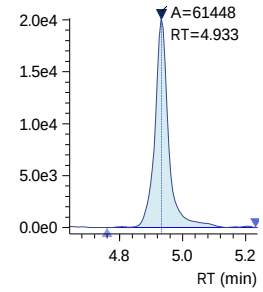
PFOS-13C
Conc 4.8436
Q 502.80>80.05 (-) 1.25e5



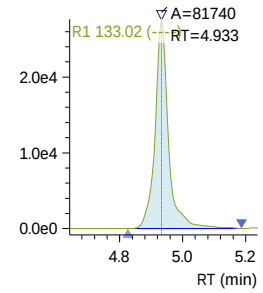
PFOS-13C_IS
Conc 5.0000
ISTD 502.80>80.05 (-) 1.25e5



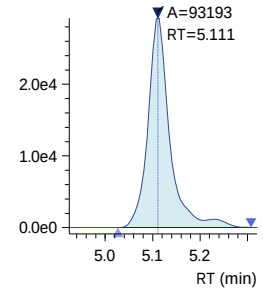
PFNS
Conc 0.9641
R#1 133.02 (129.18)
Q 549.00>99.00 (-) 2.02e4



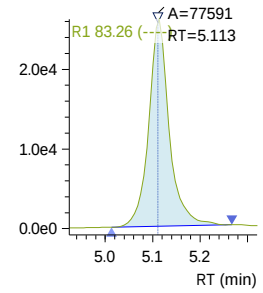
R1 549.00>79.95 (-) 2.76e4



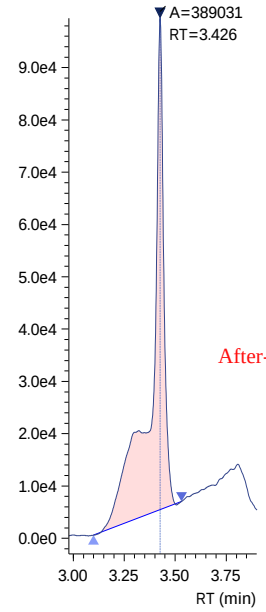
PFDS_1
Conc 1.0181
R#1 83.26 (90.77)
Q 599.00>79.90 (-) 2.92e4



R1 599.00>99.10 (-) 2.63e4



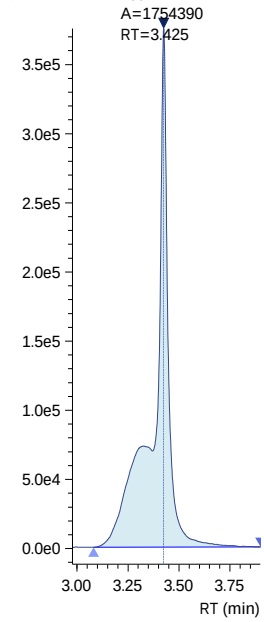
PFBA
Conc 0.9060
Q 213.00>169.10 (-) 9.94e4



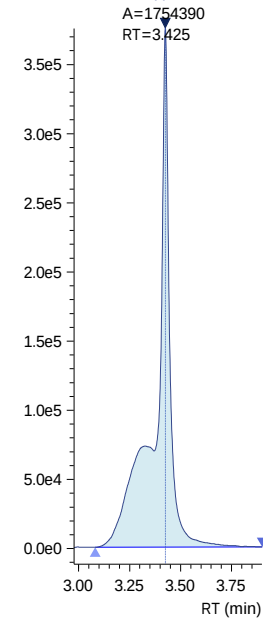
After-OI

210819_023 (continued)

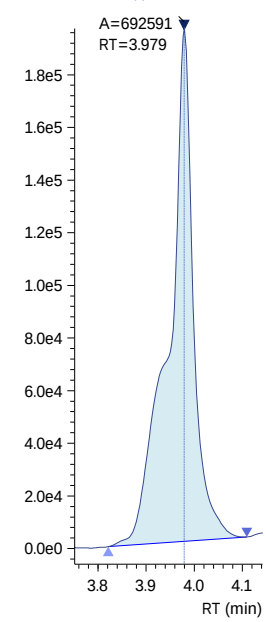
PFBA-13C
Conc 4.8585
Q 216.90>172.15 (-) 3.76e5



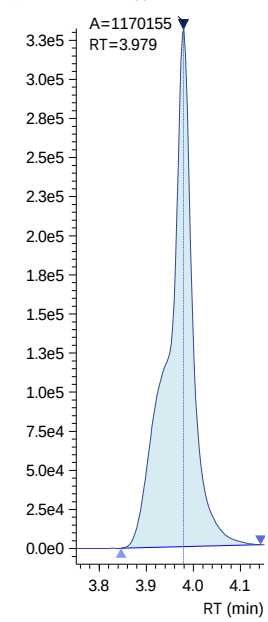
PFBA-13C_IS
Conc 5.0000
ISTD 216.90>172.15 (-) 3.76e5



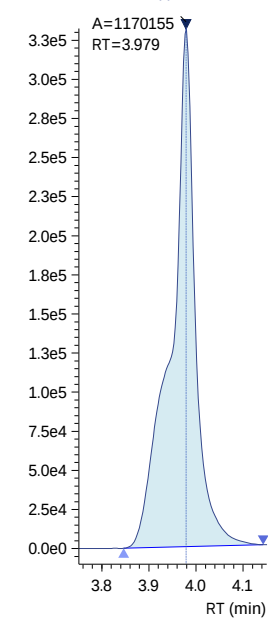
PFPeA
Conc 0.9306
Q 263.05>219.10 (-) 1.98e5



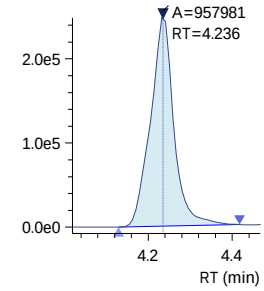
PFPeA-13C
Conc 4.9172
Q 267.90>223.00 (-) 3.33e5



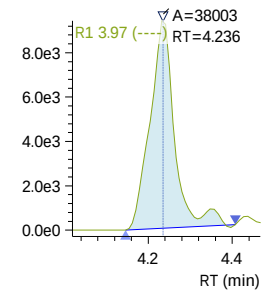
PFPeA-13C_IS
Conc 5.0000
ISTD 267.90>223.00 (-) 3.33e5



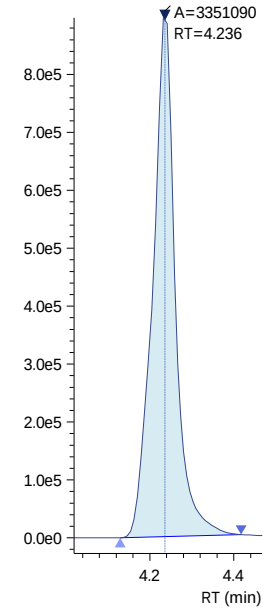
PFHxA
Conc 1.0551
R#1 3.97 (4.17)
Q 313.00>269.00 (-) 2.49e5



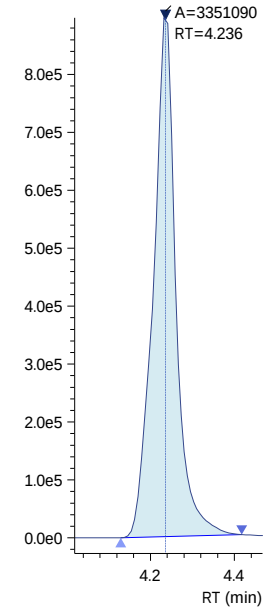
R1 313.00>119.10 (-) 9.44e3



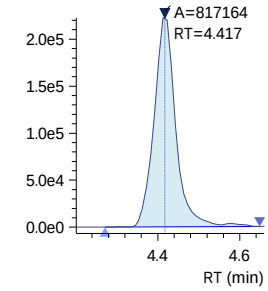
PFHxA-13C
Conc 5.1145
Q 314.90>270.10 (-) 8.98e5



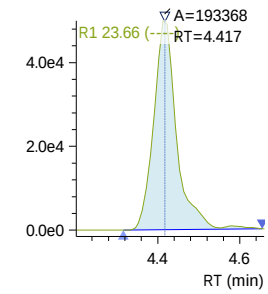
PFHxA-13C_IS
Conc 5.0000
ISTD 314.90>270.10 (-) 8.98e5



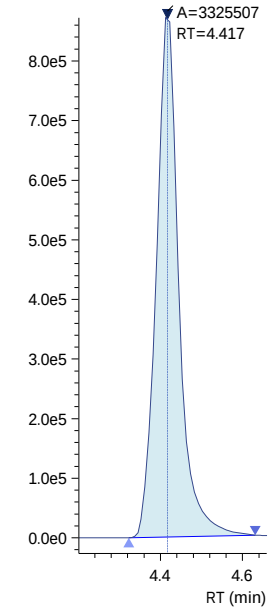
PFHpA
Conc 1.1300
R#1 23.66 (26.04)
Q 362.90>319.00 (-) 2.23e5



R1 362.90>169.00 (-) 5.00e4

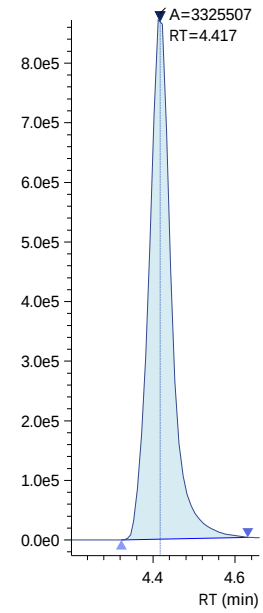


PFHpA-13C
Conc 4.9990
Q 366.90>322.10 (-) 8.72e5

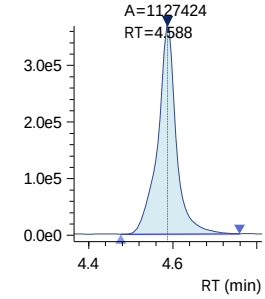


210819_023 (continued)

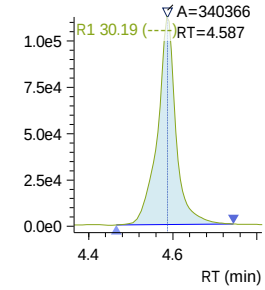
PFHpA-13C_IS
Conc 5.0000
ISTD 366.90>322.10 (-) 8.72e5



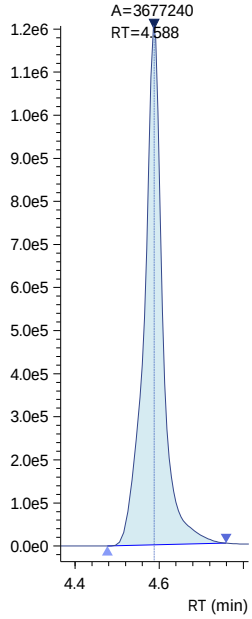
PFOA
Conc 0.9975
R#1 30.19 (30.35)
Q 413.00>369.00 (-) 3.70e5



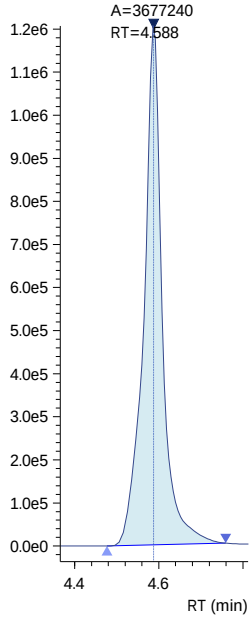
R1 413.00>169.10 (-) 1.13e5



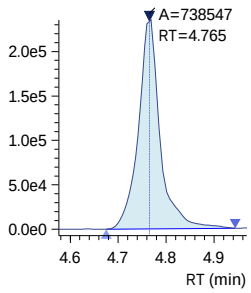
PFOA-13C
Conc 4.9654
Q 416.80>372.05 (-) 1.21e6



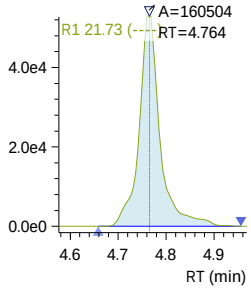
PFOA-13C_IS
Conc 5.0000
ISTD 416.80>372.05 (-) 1.21e6



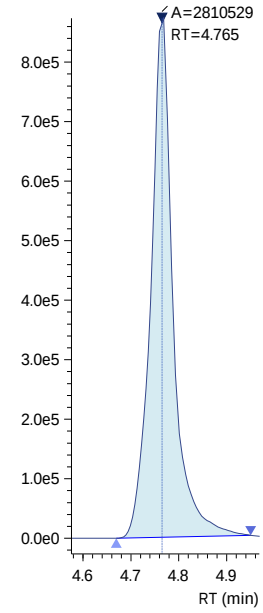
PFNA
Conc 1.0646
R#1 21.73 (22.35)
Q 463.00>418.90 (-) 2.35e5



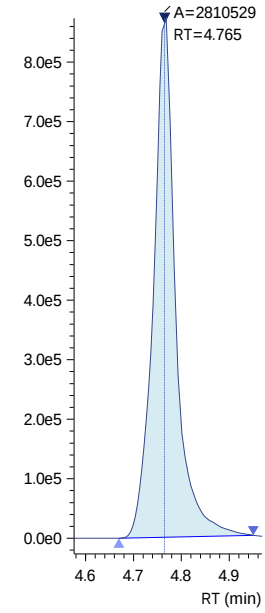
R1 463.00>219.00 (-) 5.27e4



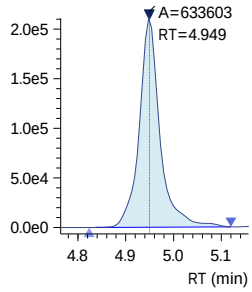
PFNA-13C
Conc 4.9751
Q 467.80>423.00 (-) 8.74e5



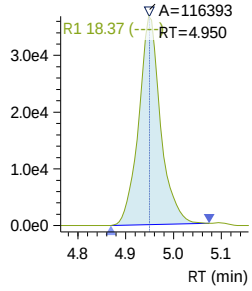
PFNA-13C_IS
Conc 5.0000
ISTD 467.80>423.00 (-) 8.74e5



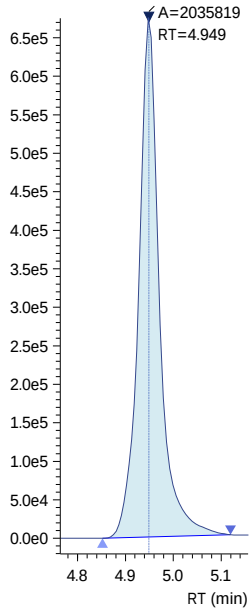
PFDA
Conc 1.0405
R#1 18.37 (18.73)
Q 513.00>468.80 (-) 2.11e5



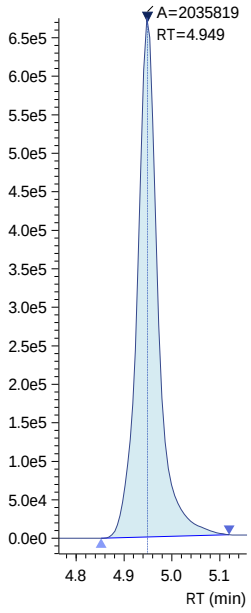
R1 513.00>219.10 (-) 3.69e4



PFDA-13C
Conc 4.8756
Q 514.80>469.95 (-) 6.75e5

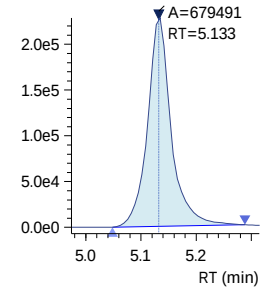


PFDA-13C_IS
Conc 5.0000
ISTD 514.80>469.95 (-) 6.75e5

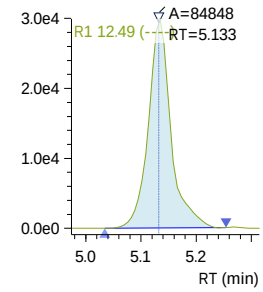


210819_023 (continued)

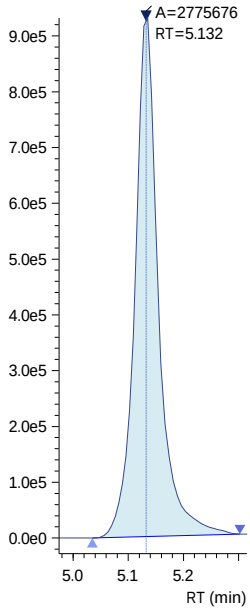
PFUnA
Conc 1.0248
R#1 12.49 (11.60)
Q 563.00>518.90 (-) 2.29e5



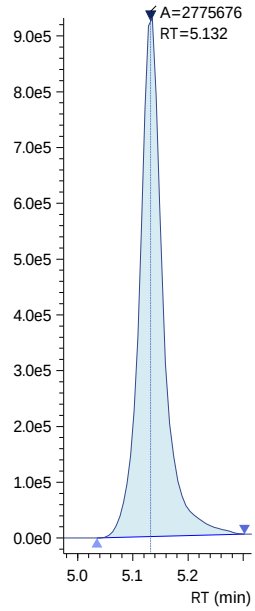
R1 563.00>219.00 (-) 2.99e4



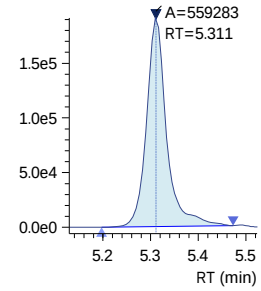
PFUnA-13C
Conc 4.9893
Q 564.80>519.95 (-) 9.32e5



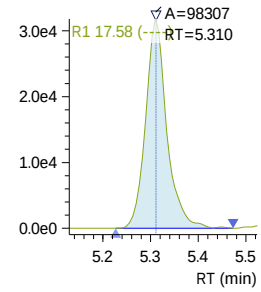
PFUnA-13C_IS
Conc 5.0000
ISTD 564.80>519.95 (-) 9.32e5



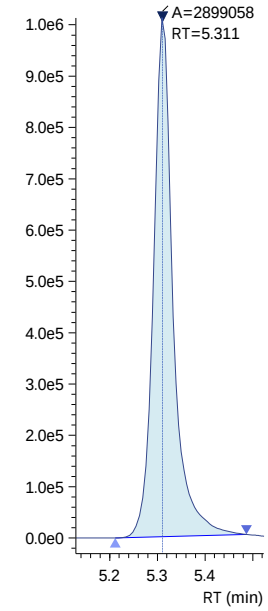
PFDoA
Conc 0.9915
R#1 17.58 (15.11)
Q 613.05>569.00 (-) 1.91e5



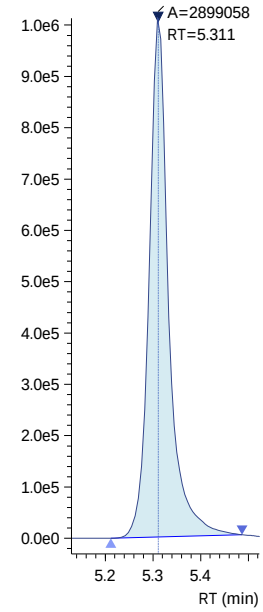
R1 613.05>169.00 (-) 3.18e4



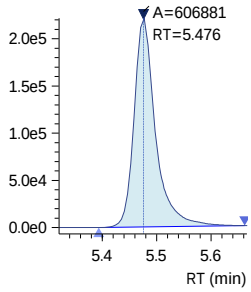
PFDoA-13C
Conc 4.7572
Q 614.80>569.95 (-) 1.01e6



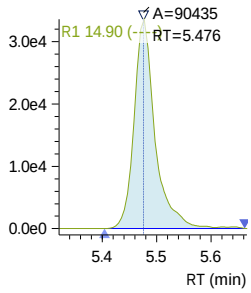
PFDoA-13C_IS
Conc 5.0000
ISTD 614.80>569.95 (-) 1.01e6



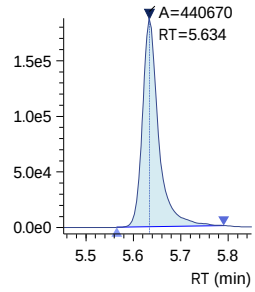
PFTrDA
Conc 1.0547
R#1 14.90 (14.19)
Q 663.00>618.90 (-) 2.22e5



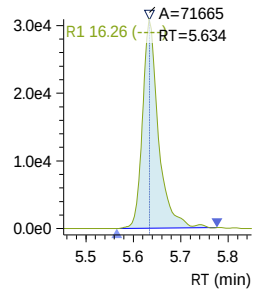
R1 662.90>169.00 (-) 3.36e4



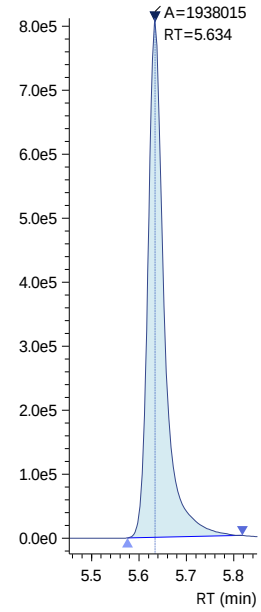
PFTeDA
Conc 1.0114
R#1 16.26 (14.98)
Q 713.00>669.00 (-) 1.88e5



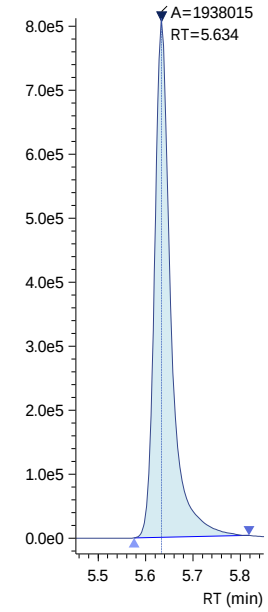
R1 713.00>169.10 (-) 3.09e4



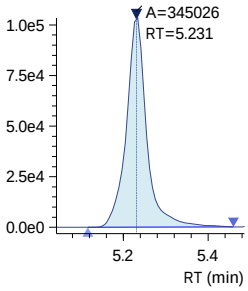
PFTeDA-13C
Conc 4.6993
Q 714.70>669.90 (-) 8.13e5

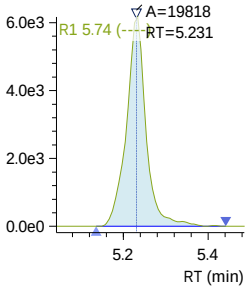


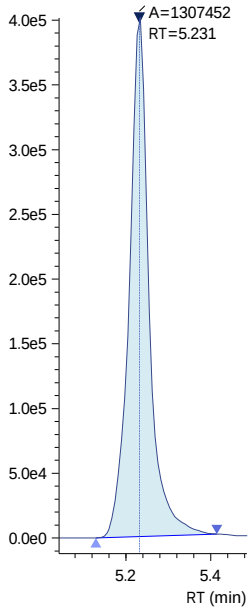
PFTeDA-13C_IS
Conc 5.0000
ISTD 714.70>669.90 (-) 8.13e5

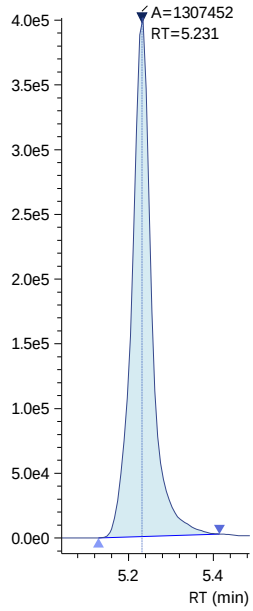


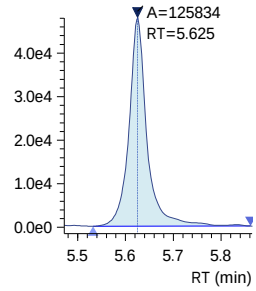
210819_023 (continued)

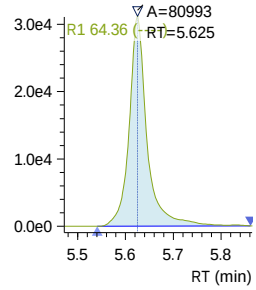
FOSA
Conc 1.0383
R#1 5.74 (4.89)
Q 498.20>78.00 (-) 1.03e5


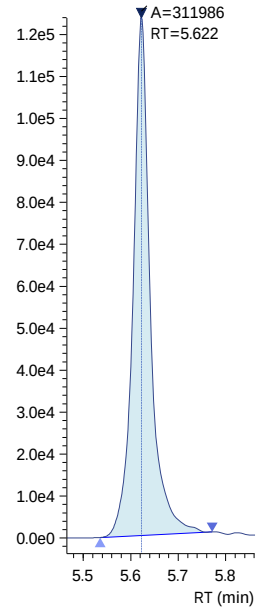
R1 498.20>64.10 (-) 6.17e3


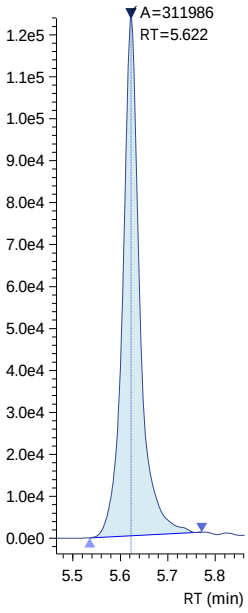
FOSA-13C
Conc 4.9784
Q 506.00>78.05 (-) 4.02e5


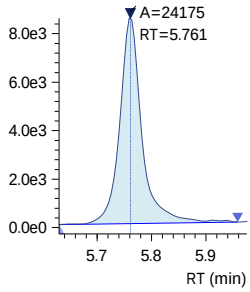
FOSA-13C_IS
Conc 5.0000
ISTD 506.00>78.05 (-) 4.02e5


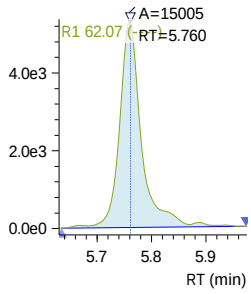
N-MeFOSA
Conc 1.0774
R#1 64.36 (62.72)
Q 512.00>169.10 (-) 4.81e4


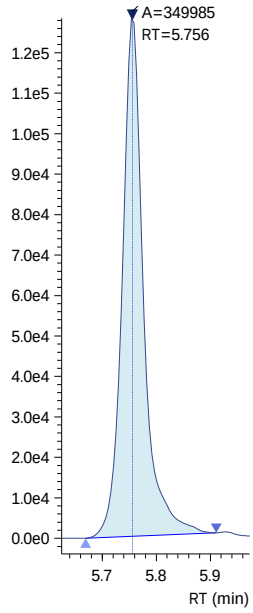
R1 512.00>219.00 (-) 3.11e4


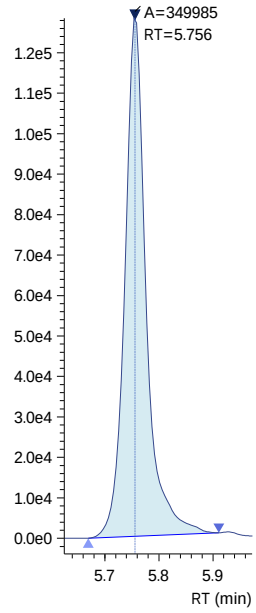
N-MeFOSA-d3
Conc 5.1090
Q 514.90>168.90 (-) 1.24e5


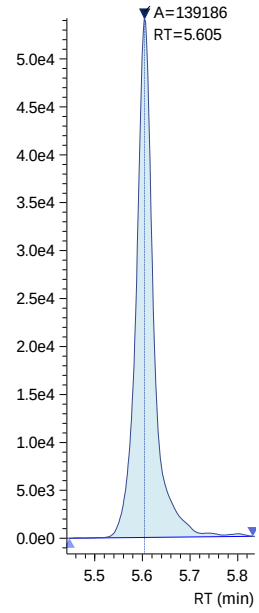
N-MeFOSA-d3_IS
Conc 5.0000
ISTD 514.90>168.90 (-) 1.24e5


N-EtFOSA
Conc 1.1022
R#1 62.07 (63.35)
Q 526.90>169.10 (-) 8.64e3


R1 526.90>219.00 (-) 5.38e3


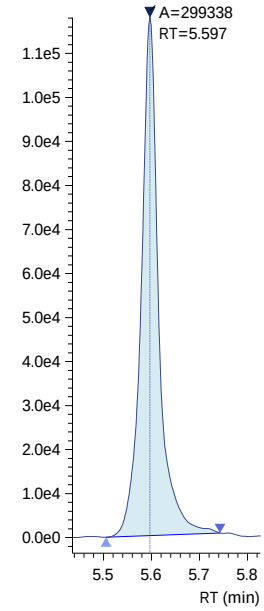
N-EtFOSA-d9
Conc 5.0442
Q 530.90>169.15 (-) 1.29e5


N-EtFOSA-d9_IS
Conc 5.0000
ISTD 530.90>169.15 (-) 1.29e5


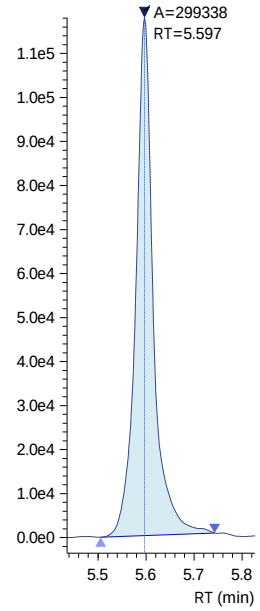
N-MeFOSE
Conc 1.0618
Q 616.00>59.00 (-) 5.42e4


210819_023 (continued)

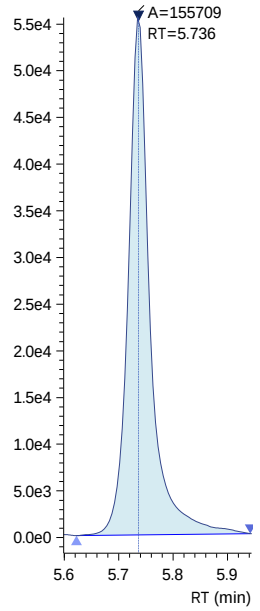
N-MeFOSE-d7
Conc 4.9018
Q 622.70>59.10 (-) 1.18e5



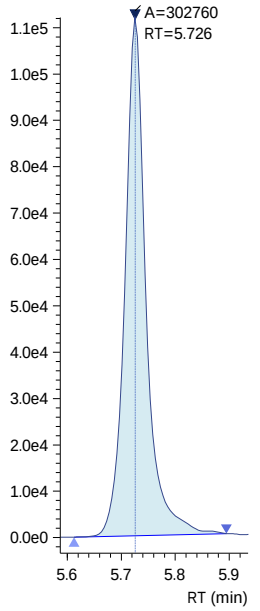
N-MeFOSE-d7_IS
Conc 5.0000
ISTD 622.70>59.10 (-) 1.18e5



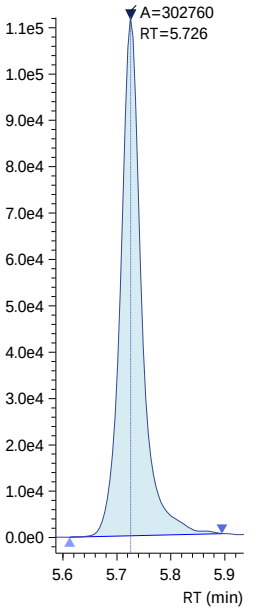
N-EtFOSE
Conc 1.1239
Q 630.00>58.90 (-) 5.57e4



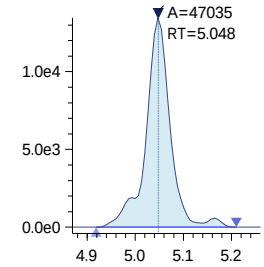
N-EtFOSE-d9
Conc 4.7887
Q 638.70>59.10 (-) 1.12e5



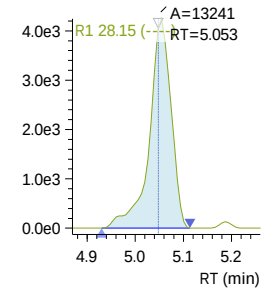
N-EtFOSE-d9_IS
Conc 5.0000
ISTD 638.70>59.10 (-) 1.12e5



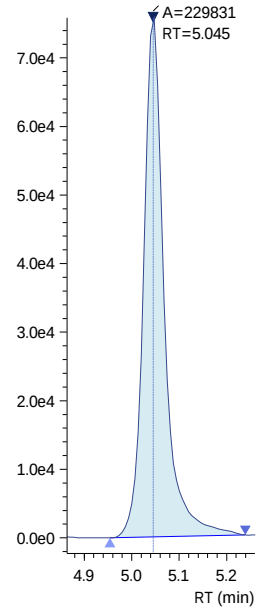
N-MeFOSAA
Conc 1.0901
R#1 28.15 (35.26)
Q 570.20>419.00 (-) 1.35e4



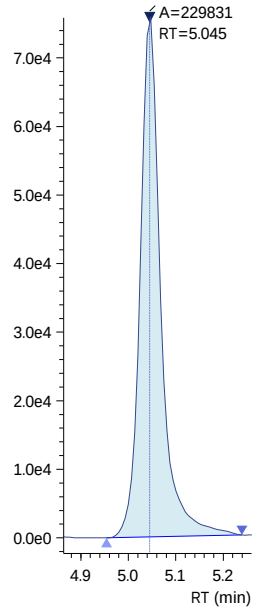
R1 570.20>512.00 (-) 4.25e3



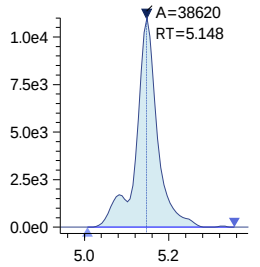
N-MeFOSAA-d3
Conc 4.6146
Q 572.80>419.05 (-) 7.59e4



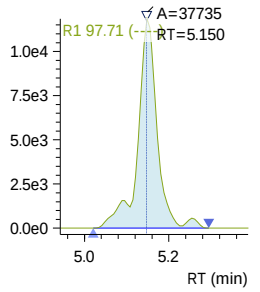
N-MeFOSAA-d3_IS
Conc 5.0000
ISTD 572.80>419.05 (-) 7.59e4



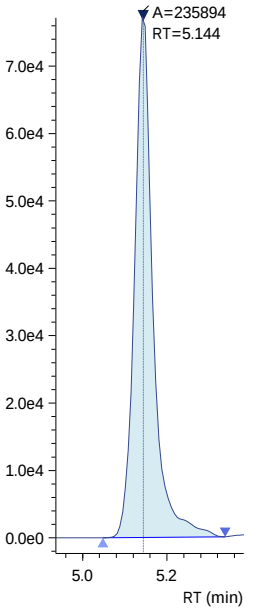
N-EtFOSAA
Conc 0.9479
R#1 97.71 (77.25)
Q 584.20>418.95 (-) 1.10e4



R1 584.20>526.10 (-) 1.19e4



N-EtFOSAA-d5
Conc 5.0877
Q 588.80>419.00 (-) 7.72e4



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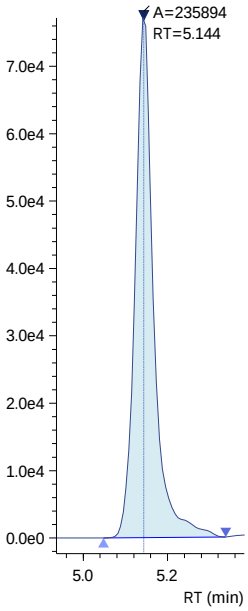
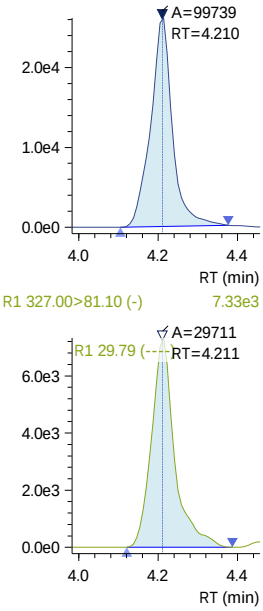
N-EtFOSAA-d5_IS
Conc 5.0000
ISTD 588.80>419.00 (-) 7.72e4

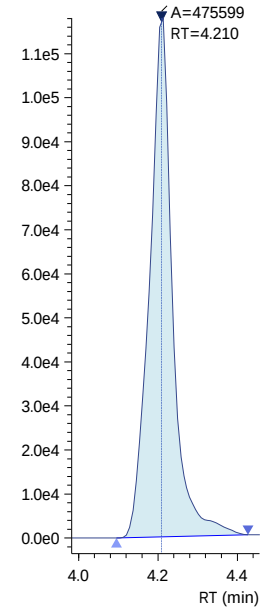


4_2-FTS_1
Conc 1.0468
R#1 29.79 (39.85)
Q 327.00>307.05 (-) 2.62e4

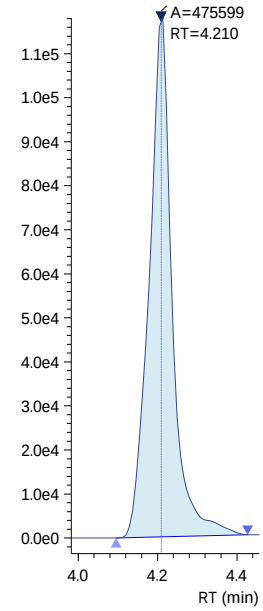


R1 327.00>81.10 (-) 7.33e3

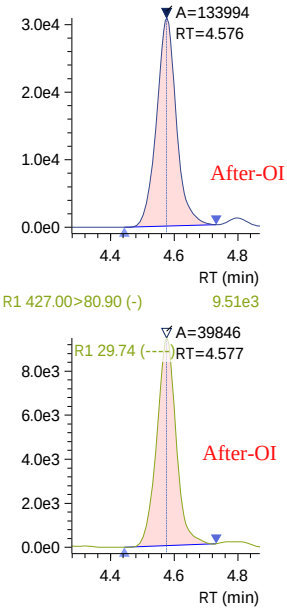
4_2-FTS-13C
Conc 4.6811
Q 328.80>309.05 (-) 1.18e5



4_2-FTS-13C_IS
Conc 5.0000
ISTD 328.80>309.05 (-) 1.18e5

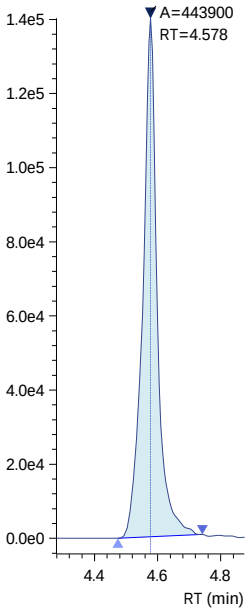


6_2-FTS_1
Conc 1.0852
R#1 29.74 (29.95)
Q 427.00>407.00 (-) 3.10e4

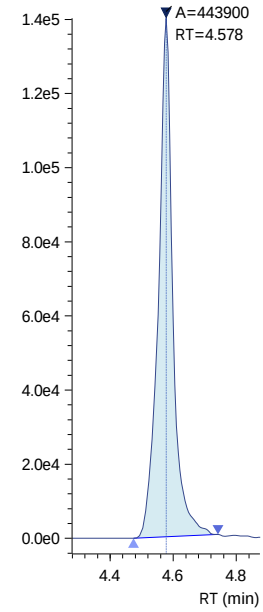


R1 427.00>80.90 (-) 9.51e3

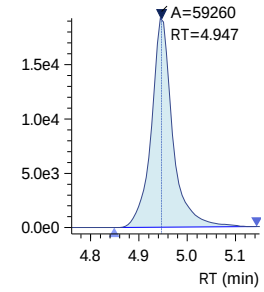
6_2-FTS-13C
Conc 4.6248
Q 428.90>409.00 (-) 1.40e5



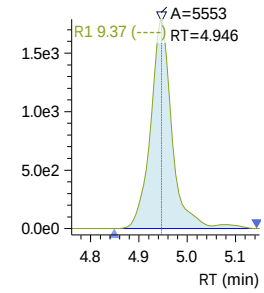
6_2-FTS-13C_IS
Conc 5.0000
ISTD 428.90>409.00 (-) 1.40e5



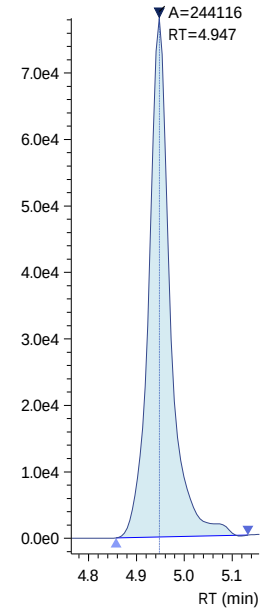
8_2-FTS_1
Conc 1.0437
R#1 9.37 (9.42)
Q 527.10>506.90 (-) 1.93e4



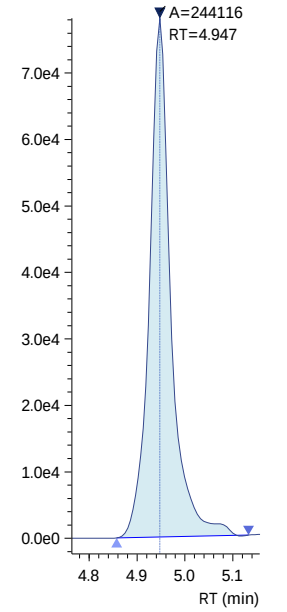
R1 527.20>487.00 (-) 1.79e3



8_2-FTS-13C
Conc 4.7784
Q 528.80>509.00 (-) 7.82e4

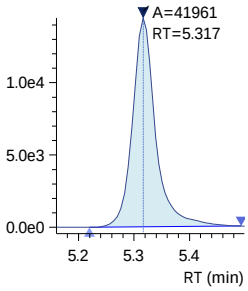


8_2-FTS-13C_IS
Conc 5.0000
ISTD 528.80>509.00 (-) 7.82e4

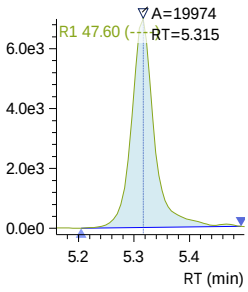


210819_023 (continued)

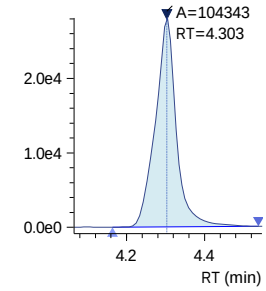
10_2-FtS_1
Conc 1.0683
R#1 47.60 (49.86)
Q 627.00>606.95 (-) 1.45e4



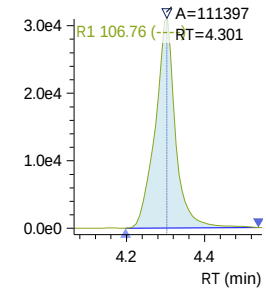
R1 627.00>81.25 (-) 6.99e3



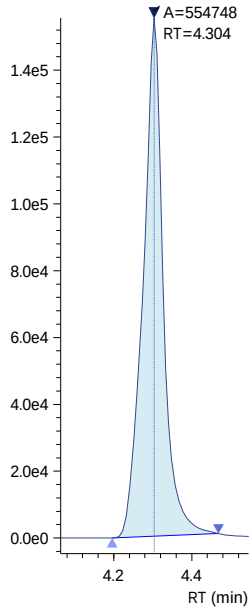
HPFO_DA
Conc 1.0340
R#1 106.76 (101.52)
Q 329.00>169.00 (-) 2.81e4



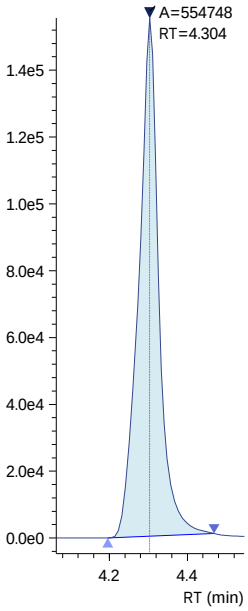
R1 329.00>285.10 (-) 3.10e4



HFPO_DA-13C
Conc 4.8562
Q 332.00>286.80 (-) 1.56e5



HFPO_DA-13C_IS
Conc 5.0000
ISTD 332.00>286.80 (-) 1.56e5

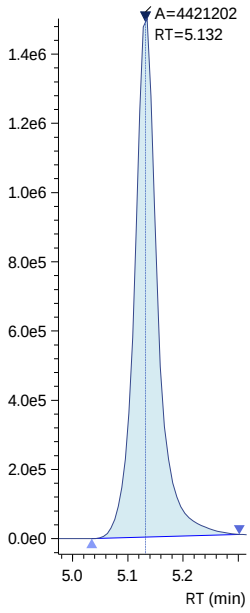


Insight Report
Before Manual Integration
Printed 8/20/2021 09:47:37

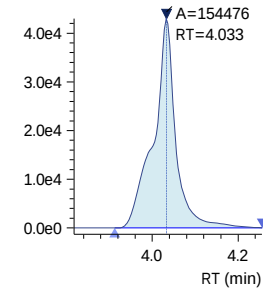
210819_023

Sample ID: PFC ICAL @ 1.0ppb
Date Acquired: 8/19/2021 7:10:46 PM
Acquired by: System Administrator
Data File: 210819_023
Vial: 4 | Inj. Volume: 15.0000uL | Tray: 0

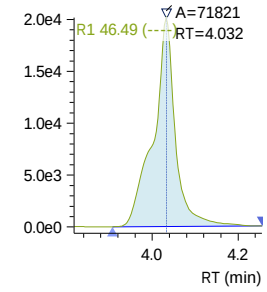
13C7-PFUnDA_IS
Conc 5.0000
ISTD 570.00>525.00 (-) 1.50e6



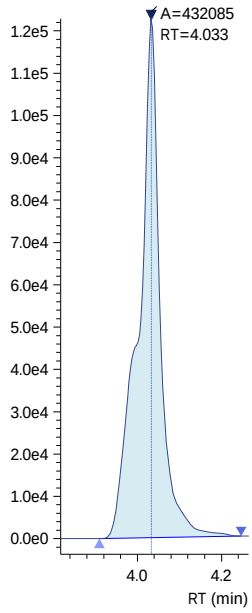
PFBS_1
Conc 0.9786
R#1 46.49 (48.11)
Q 299.00>80.00 (-) 4.30e4



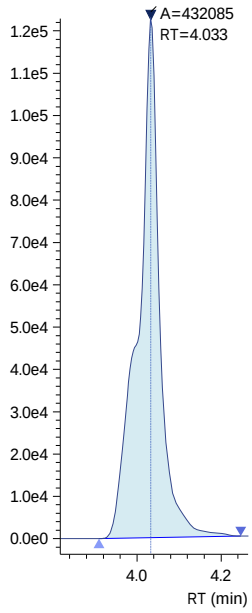
R1 298.80>99.00 (-) 2.02e4



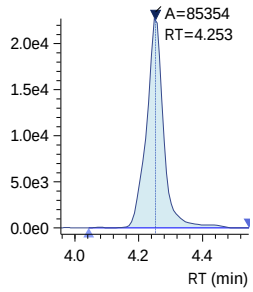
PFBS-13C
Conc 4.7370
Q 301.80>80.00 (-) 1.23e5



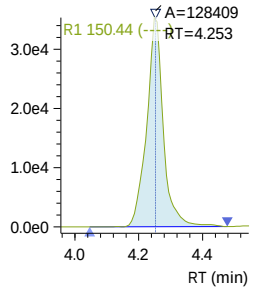
PFBS-13C_IS
Conc 5.0000
ISTD 301.80>80.00 (-) 1.23e5



PFPeS
Conc 0.9767
R#1 150.44 (149.27)
Q 349.00>99.00 (-) 2.27e4

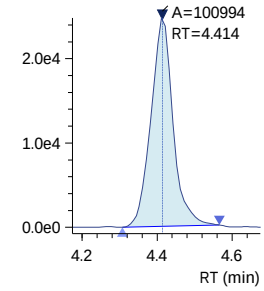


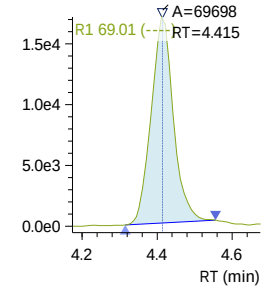
R1 349.00>79.95 (-) 3.53e4

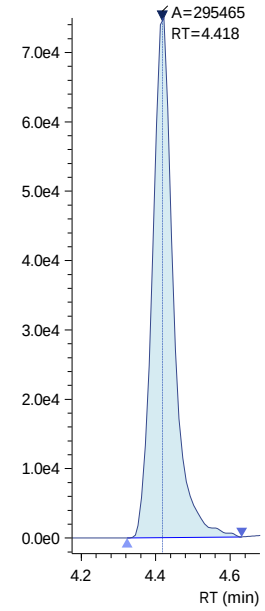


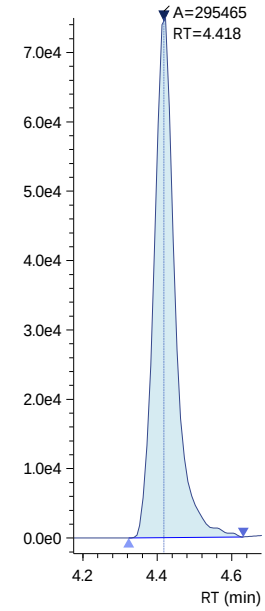
Insight Report
Before Manual Integration
Printed 8/20/2021 09:47:37

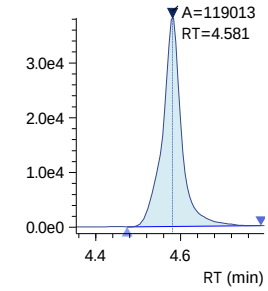
210819_023 (continued)

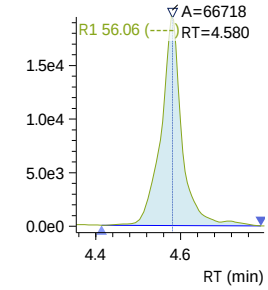
PFHxS_1
Conc 0.9249
R#1 69.01 (83.10)
Q 399.00>80.00 (-) 2.48e4


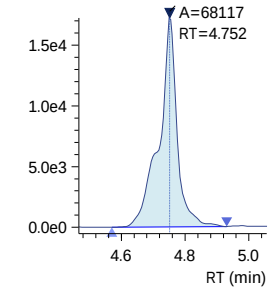
R1 399.00>99.00 (-) 1.72e4


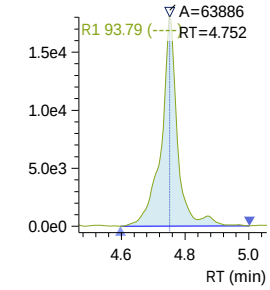
PFHxS-18O
Conc 4.7476
Q 402.70>84.05 (-) 7.50e4


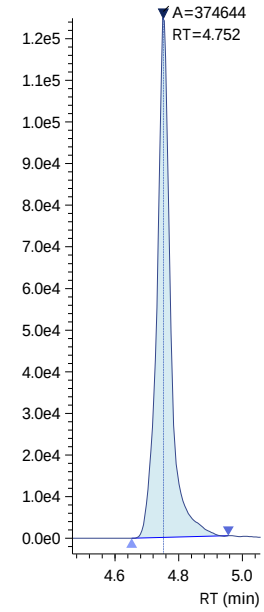
PFHxS-18O_IS
Conc 5.0000
ISTD 402.70>84.05 (-) 7.50e4


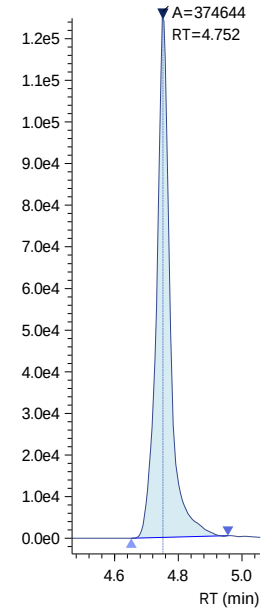
PFHpS_1
Conc 0.9476
R#1 56.06 (58.24)
Q 449.00>80.15 (-) 3.82e4


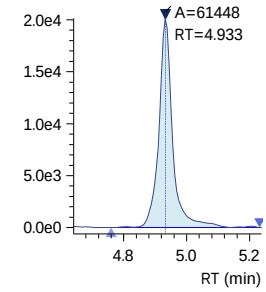
R1 449.00>99.20 (-) 1.95e4


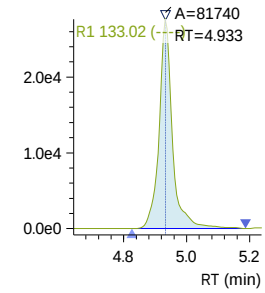
PFOS_1
Conc 0.9410
R#1 93.79 (87.63)
Q 499.00>80.00 (-) 1.72e4


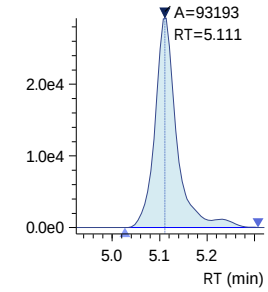
R1 499.00>99.00 (-) 1.80e4


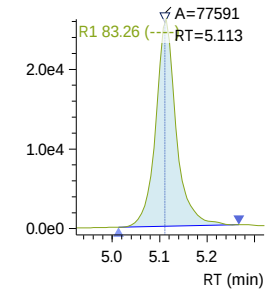
PFOS-13C
Conc 4.8436
Q 502.80>80.05 (-) 1.25e5


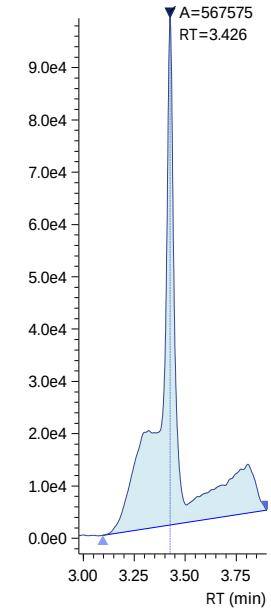
PFOS-13C_IS
Conc 5.0000
ISTD 502.80>80.05 (-) 1.25e5


PFNS
Conc 0.9686
R#1 133.02 (137.56)
Q 549.00>99.00 (-) 2.02e4


R1 549.00>79.95 (-) 2.76e4


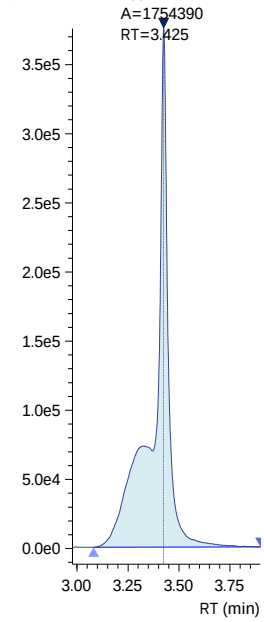
PFDS_1
Conc 1.0180
R#1 83.26 (101.78)
Q 599.00>79.90 (-) 2.92e4


R1 599.00>99.10 (-) 2.63e4


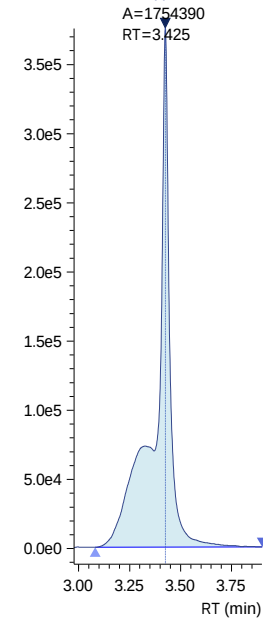
PFBA
Conc 1.2108
Q 213.00>169.10 (-) 9.94e4


210819_023 (continued)

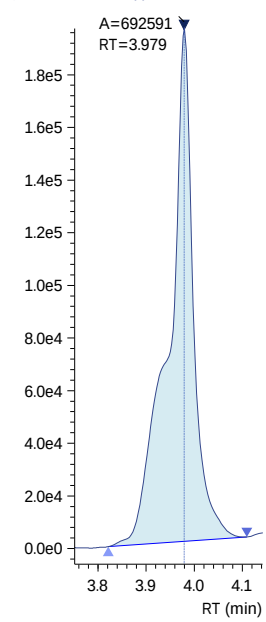
PFBA-13C
Conc 4.8585
Q 216.90>172.15 (-) 3.76e5



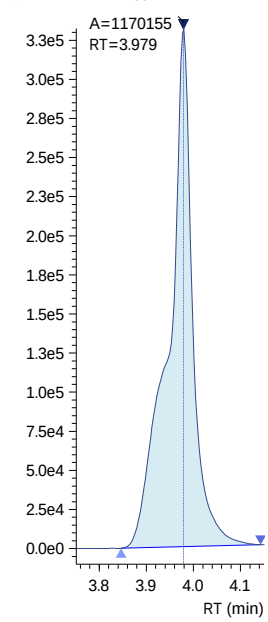
PFBA-13C_IS
Conc 5.0000
ISTD 216.90>172.15 (-) 3.76e5



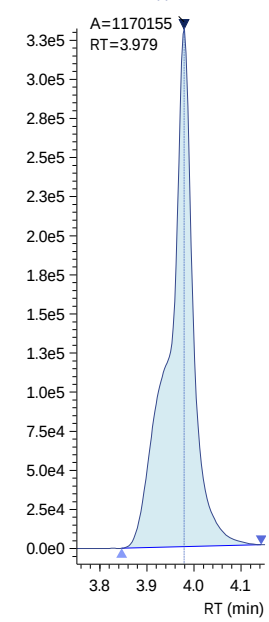
PFPeA
Conc 0.9944
Q 263.05>219.10 (-) 1.98e5



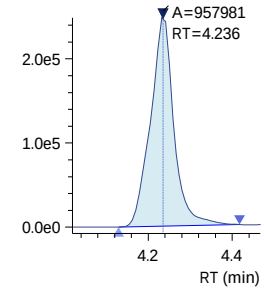
PFPeA-13C
Conc 4.9172
Q 267.90>223.00 (-) 3.33e5



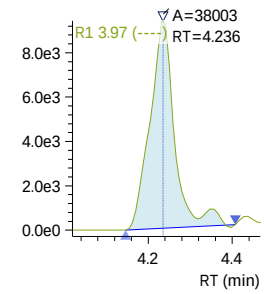
PFPeA-13C_IS
Conc 5.0000
ISTD 267.90>223.00 (-) 3.33e5



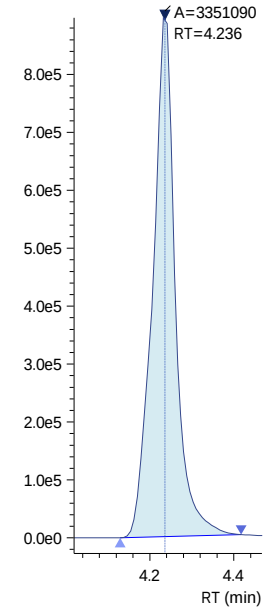
PFHxA
Conc 1.0521
R#1 3.97 (4.21)
Q 313.00>269.00 (-) 2.49e5



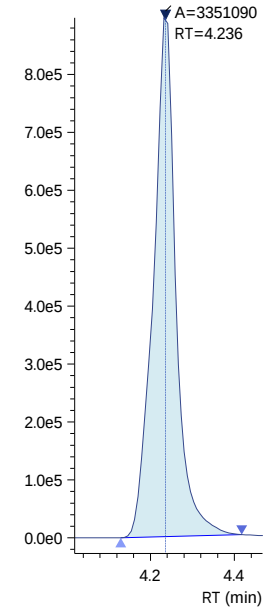
R1 313.00>119.10 (-) 9.44e3



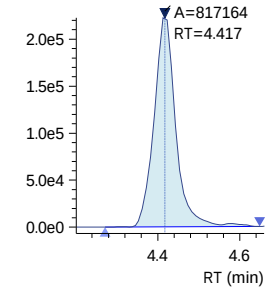
PFHxA-13C
Conc 5.1002
Q 314.90>270.10 (-) 8.98e5



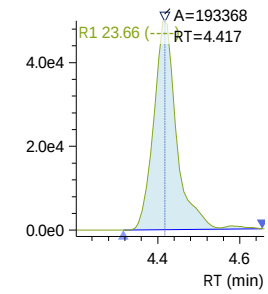
PFHxA-13C_IS
Conc 5.0000
ISTD 314.90>270.10 (-) 8.98e5



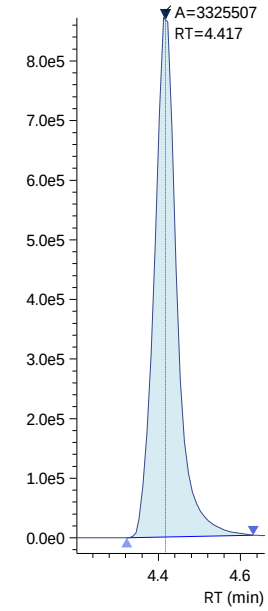
PFHpA
Conc 1.1133
R#1 23.66 (26.69)
Q 362.90>319.00 (-) 2.23e5



R1 362.90>169.00 (-) 5.00e4

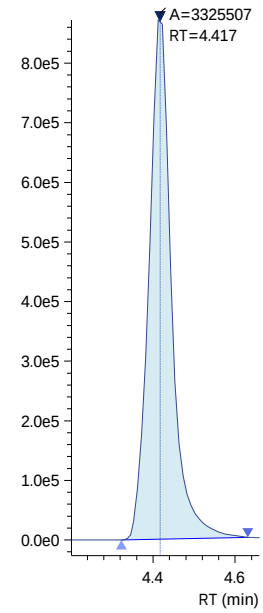


PFHpA-13C
Conc 4.9990
Q 366.90>322.10 (-) 8.72e5

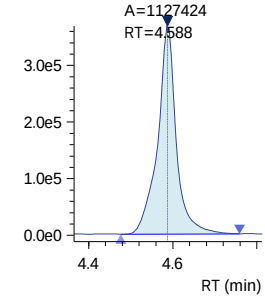


210819_023 (continued)

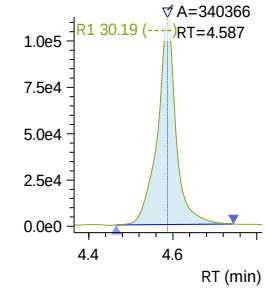
PFHpA-13C_IS
Conc 5.0000
ISTD 366.90>322.10 (-) 8.72e5



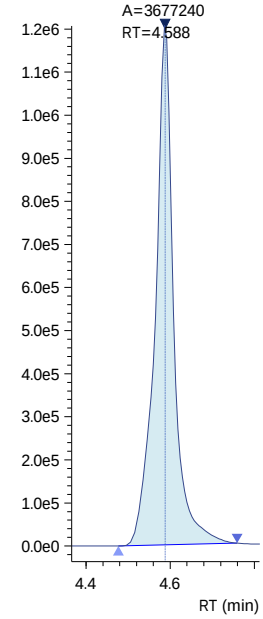
PFOA
Conc 1.0503
R#1 30.19 (31.31)
Q 413.00>369.00 (-) 3.70e5



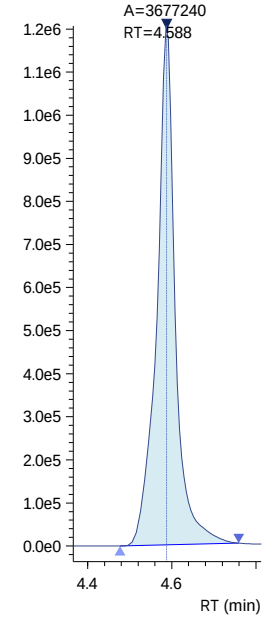
R1 413.00>169.10 (-) 1.13e5



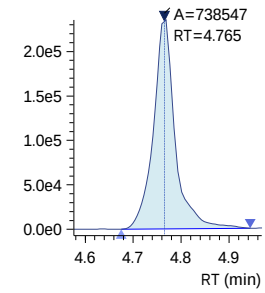
PFOA-13C
Conc 4.9654
Q 416.80>372.05 (-) 1.21e6



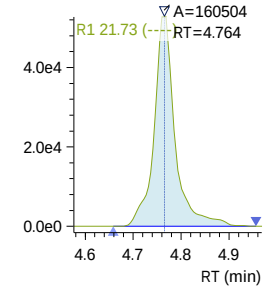
PFOA-13C_IS
Conc 5.0000
ISTD 416.80>372.05 (-) 1.21e6



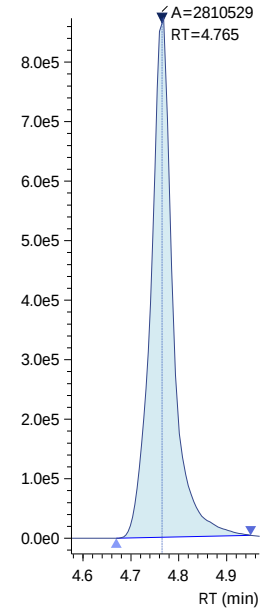
PFNA
Conc 1.0563
R#1 21.73 (20.54)
Q 463.00>418.90 (-) 2.35e5



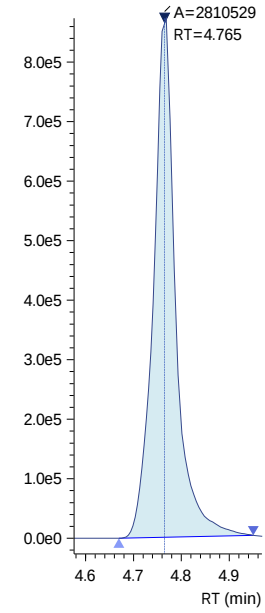
R1 463.00>219.00 (-) 5.27e4



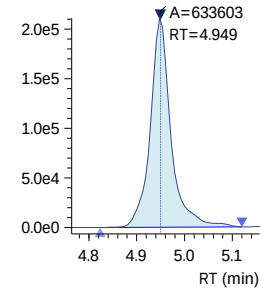
PFNA-13C
Conc 4.9751
Q 467.80>423.00 (-) 8.74e5



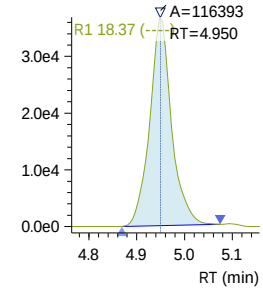
PFNA-13C_IS
Conc 5.0000
ISTD 467.80>423.00 (-) 8.74e5



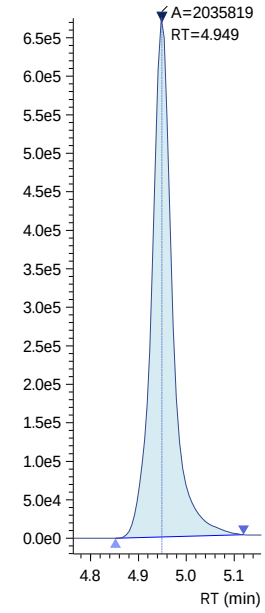
PFDA
Conc 1.0405
R#1 18.37 (20.01)
Q 513.00>468.80 (-) 2.11e5



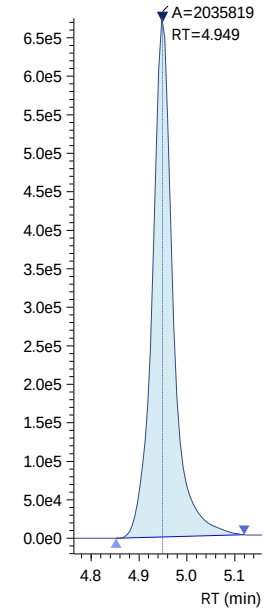
R1 513.00>219.10 (-) 3.69e4



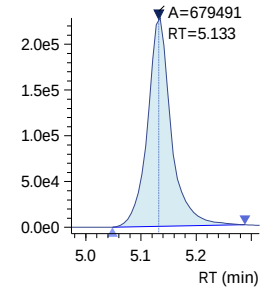
PFDA-13C
Conc 4.8756
Q 514.80>469.95 (-) 6.75e5

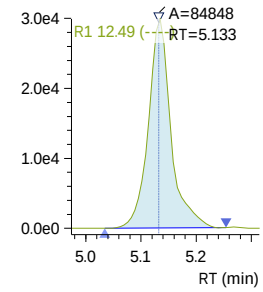


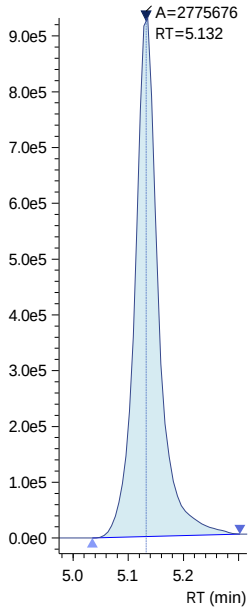
PFDA-13C_IS
Conc 5.0000
ISTD 514.80>469.95 (-) 6.75e5

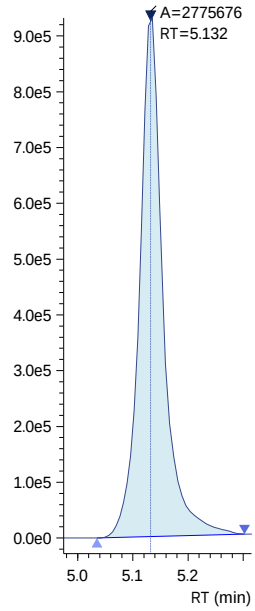


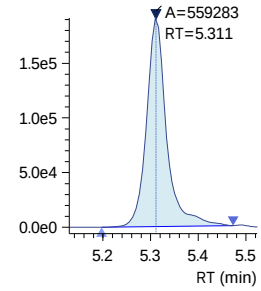
210819_023 (continued)

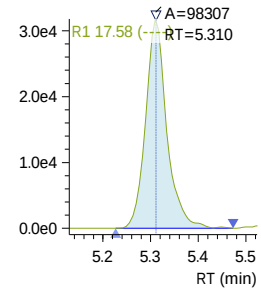
PFUnA
Conc 1.0248
R#1 12.49 (13.39)
Q 563.00>518.90 (-) 2.29e5


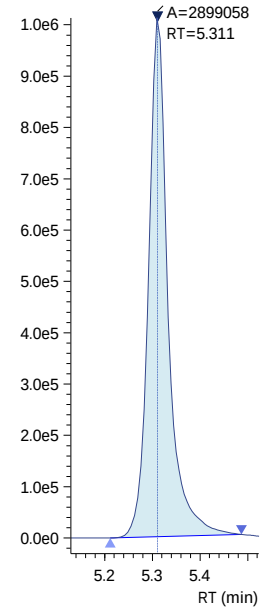
R1 563.00>219.00 (-) 2.99e4


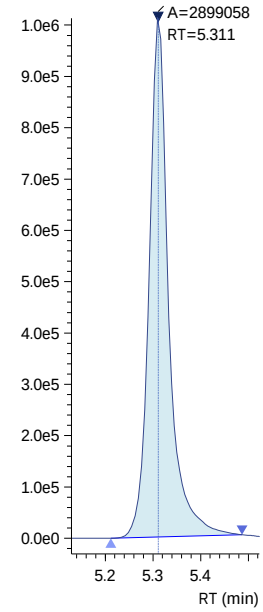
PFUnA-13C
Conc 4.9893
Q 564.80>519.95 (-) 9.32e5


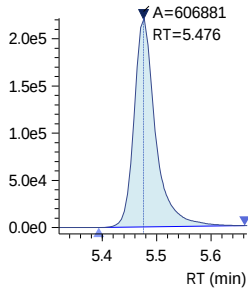
PFUnA-13C_IS
Conc 5.0000
ISTD 564.80>519.95 (-) 9.32e5


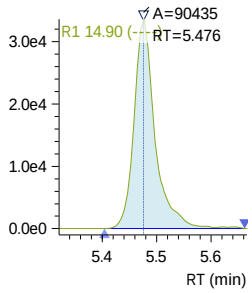
PFDoA
Conc 0.9884
R#1 17.58 (16.84)
Q 613.05>569.00 (-) 1.91e5


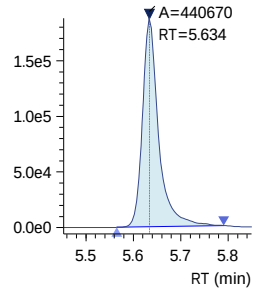
R1 613.05>169.00 (-) 3.18e4


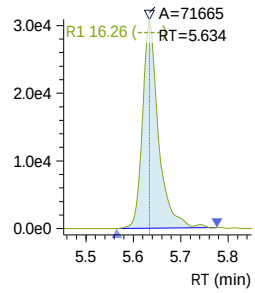
PFDoA-13C
Conc 4.7572
Q 614.80>569.95 (-) 1.01e6


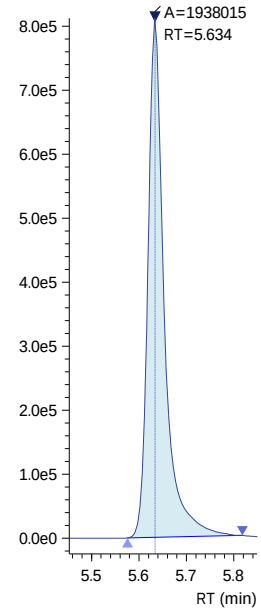
PFDoA-13C_IS
Conc 5.0000
ISTD 614.80>569.95 (-) 1.01e6


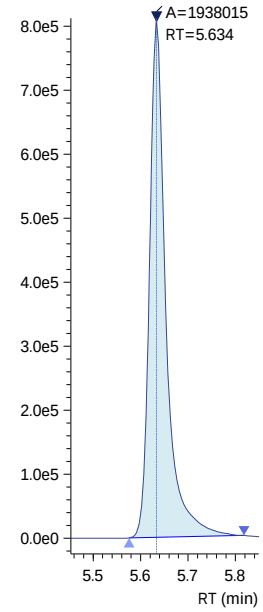
PFTrDA
Conc 1.0547
R#1 14.90 (16.76)
Q 663.00>618.90 (-) 2.22e5


R1 662.90>169.00 (-) 3.36e4


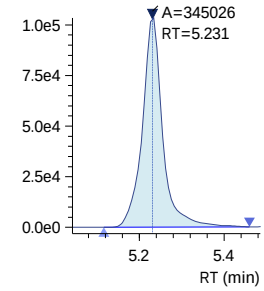
PFTeDA
Conc 0.9940
R#1 16.26 (16.56)
Q 713.00>669.00 (-) 1.88e5


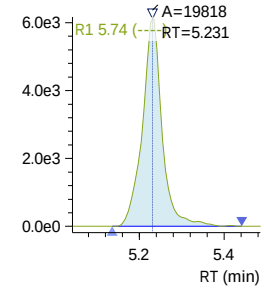
R1 713.00>169.10 (-) 3.09e4


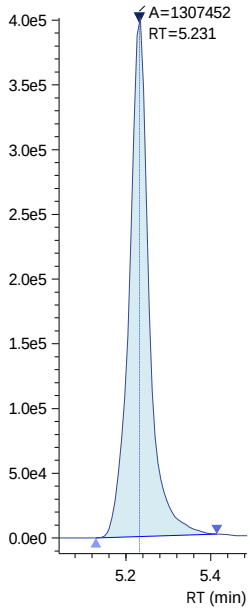
PFTeDA-13C
Conc 4.6993
Q 714.70>669.90 (-) 8.13e5


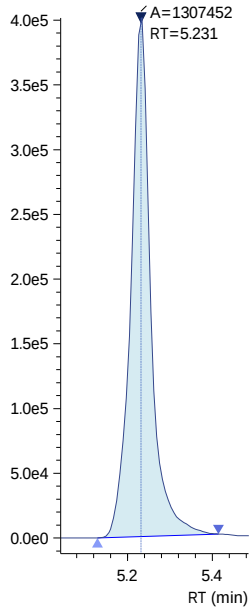
PFTeDA-13C_IS
Conc 5.0000
ISTD 714.70>669.90 (-) 8.13e5


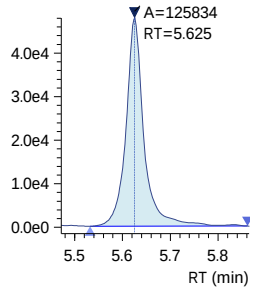
210819_023 (continued)

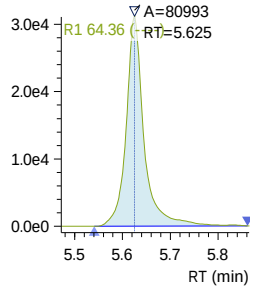
FOSA
Conc 1.0175
R#1 5.74 (4.59)
Q 498.20>78.00 (-) 1.03e5


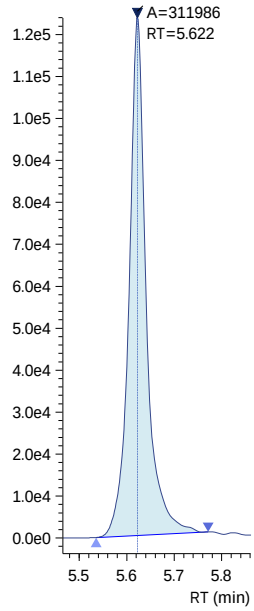
R1 498.20>64.10 (-) 6.17e3


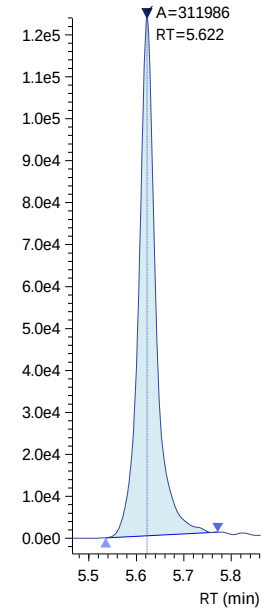
FOSA-13C
Conc 4.9784
Q 506.00>78.05 (-) 4.02e5


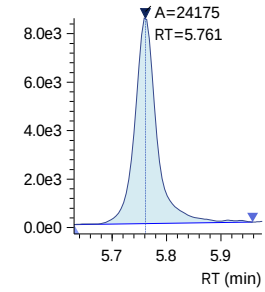
FOSA-13C_IS
Conc 5.0000
ISTD 506.00>78.05 (-) 4.02e5


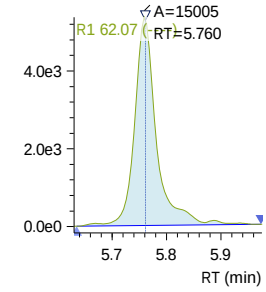
N-MeFOSA
Conc 0.9813
R#1 64.36 (68.73)
Q 512.00>169.10 (-) 4.81e4


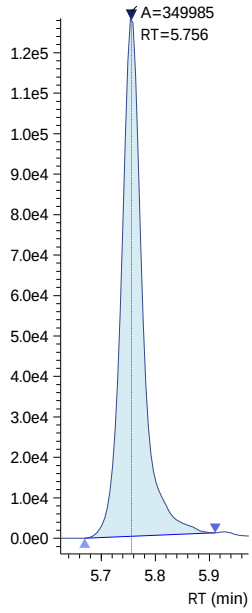
R1 512.00>219.00 (-) 3.11e4


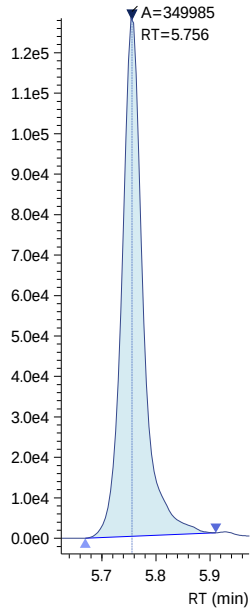
N-MeFOSA-d3
Conc 5.1090
Q 514.90>168.90 (-) 1.24e5


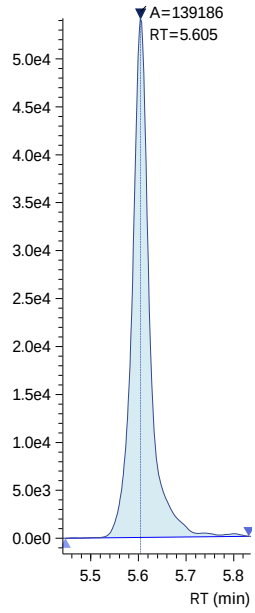
N-MeFOSA-d3_IS
Conc 5.0000
ISTD 514.90>168.90 (-) 1.24e5


N-MeFOSA
Conc 1.0929
R#1 62.07 (62.10)
Q 526.90>169.10 (-) 8.64e3


R1 526.90>219.00 (-) 5.38e3


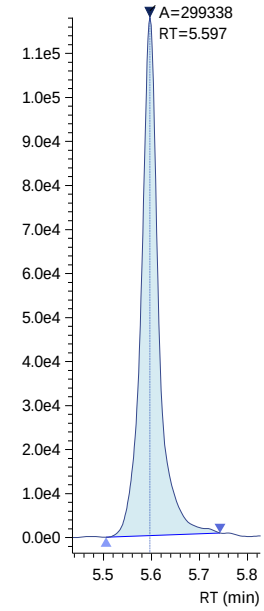
N-EtFOSA-d9
Conc 5.0442
Q 530.90>169.15 (-) 1.29e5


N-EtFOSA-d9_IS
Conc 5.0000
ISTD 530.90>169.15 (-) 1.29e5


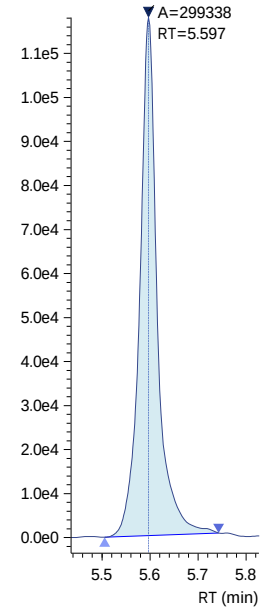
N-MeFOSE
Conc 1.0385
Q 616.00>59.00 (-) 5.42e4


210819_023 (continued)

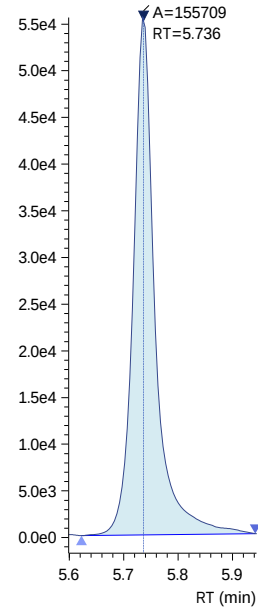
N-MeFOSE-d7
Conc 4.9018
Q 622.70>59.10 (-) 1.18e5



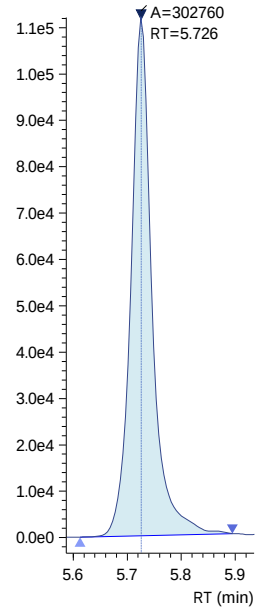
N-MeFOSE-d7_IS
Conc 5.0000
ISTD 622.70>59.10 (-) 1.18e5



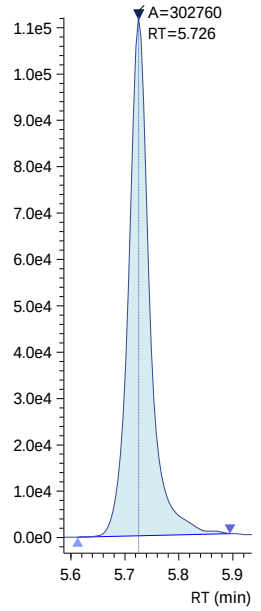
N-EtFOSE
Conc 1.0933
Q 630.00>58.90 (-) 5.57e4



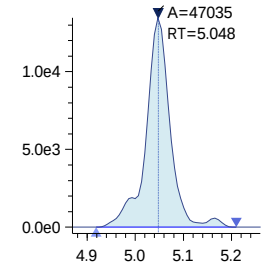
N-EtFOSE-d9
Conc 4.7887
Q 638.70>59.10 (-) 1.12e5



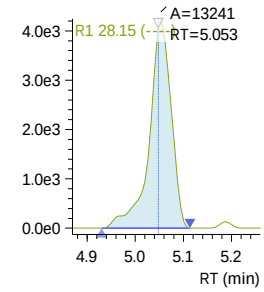
N-EtFOSE-d9_IS
Conc 5.0000
ISTD 638.70>59.10 (-) 1.12e5



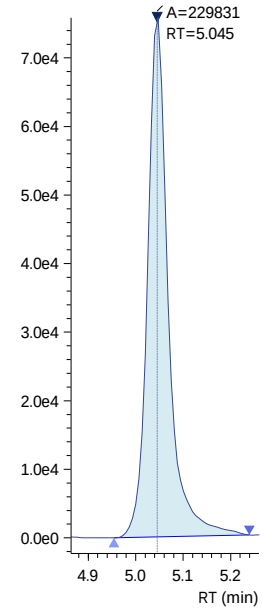
N-MeFOSAA
Conc 1.0612
R#1 28.15 (52.81)
Q 570.20>419.00 (-) 1.35e4



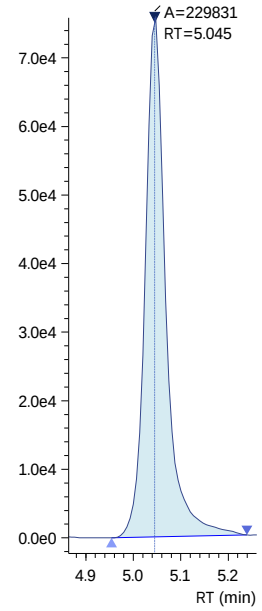
R1 570.20>512.00 (-) 4.25e3



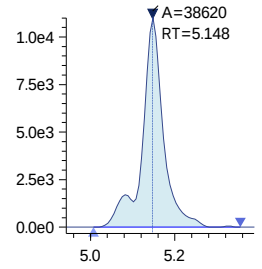
N-MeFOSAA-d3
Conc 4.6063
Q 572.80>419.05 (-) 7.59e4



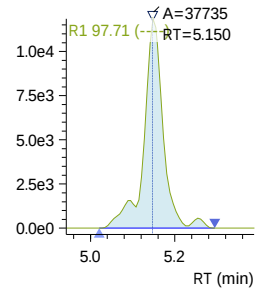
N-MeFOSAA-d3_IS
Conc 5.0000
ISTD 572.80>419.05 (-) 7.59e4



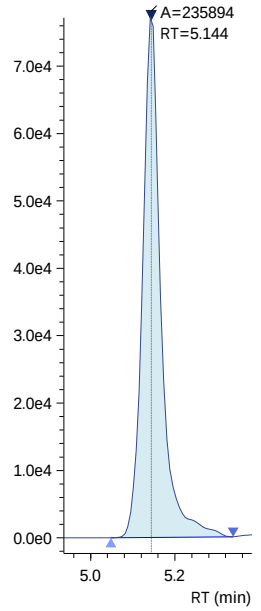
N-EtFOSAA
Conc 0.9497
R#1 97.71 (86.68)
Q 584.20>418.95 (-) 1.10e4



R1 584.20>526.10 (-) 1.19e4

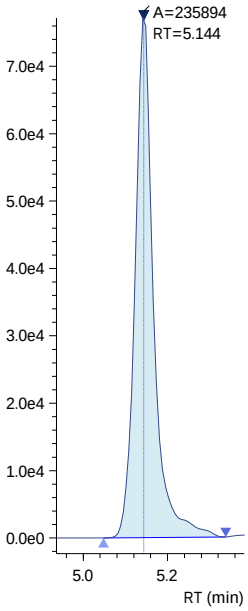


N-EtFOSAA-d5
Conc 5.0573
Q 588.80>419.00 (-) 7.72e4

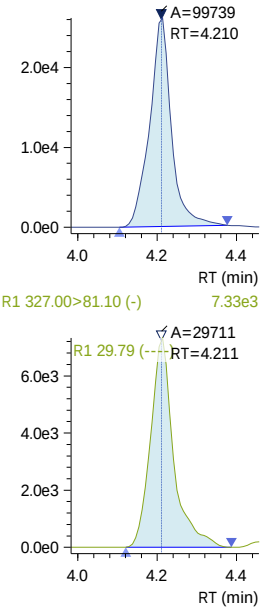


210819_023 (continued)

N-EtFOSAA-d5_IS
Conc 5.0000
ISTD 588.80>419.00 (-) 7.72e4

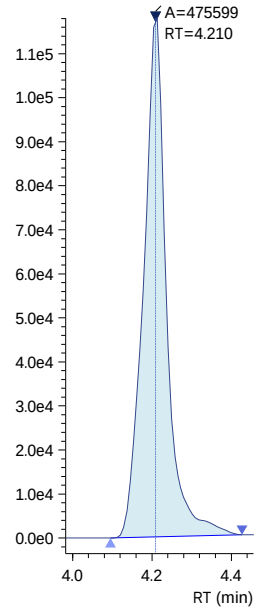


4_2-FTS_1
Conc 1.0468
R#1 29.79 (33.17)
Q 327.00>307.05 (-) 2.62e4

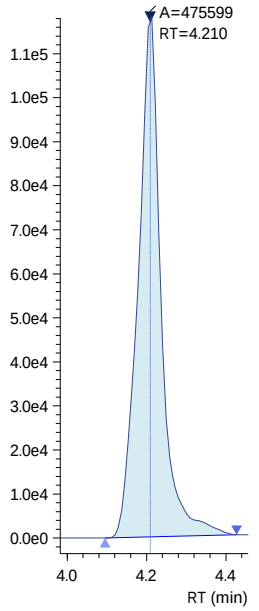


R1 327.00>81.10 (-) 7.33e3

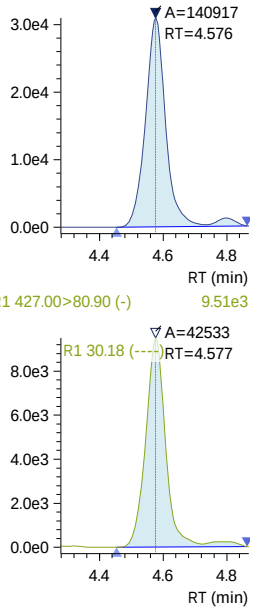
4_2-FTS-13C
Conc 4.6811
Q 328.80>309.05 (-) 1.18e5



4_2-FTS-13C_IS
Conc 5.0000
ISTD 328.80>309.05 (-) 1.18e5

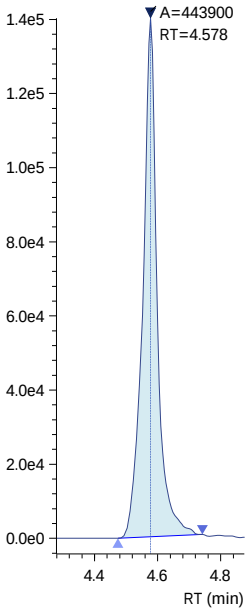


6_2-FTS_1
Conc 1.1226
R#1 30.18 (31.24)
Q 427.00>407.00 (-) 3.10e4

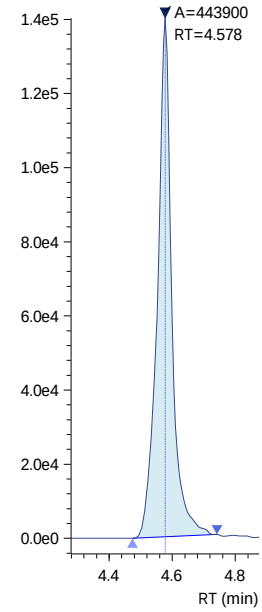


R1 427.00>80.90 (-) 9.51e3

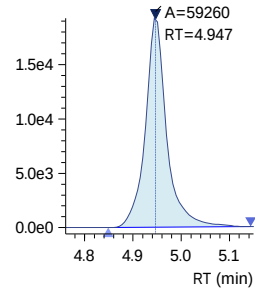
6_2-FTS-13C
Conc 4.6248
Q 428.90>409.00 (-) 1.40e5



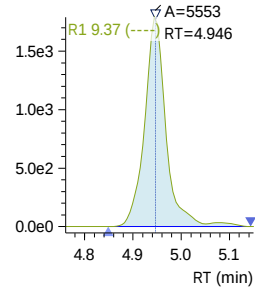
6_2-FTS-13C_IS
Conc 5.0000
ISTD 428.90>409.00 (-) 1.40e5



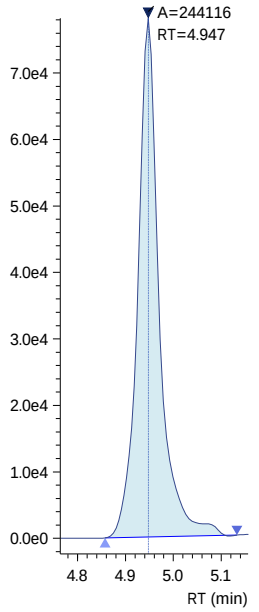
8_2-FTS_1
Conc 1.0437
R#1 9.37 (9.11)
Q 527.10>506.90 (-) 1.93e4



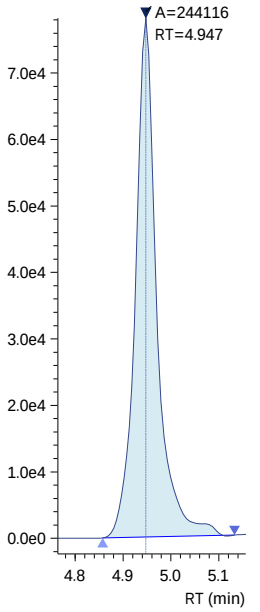
R1 527.20>487.00 (-) 1.79e3



8_2-FTS-13C
Conc 4.7784
Q 528.80>509.00 (-) 7.82e4

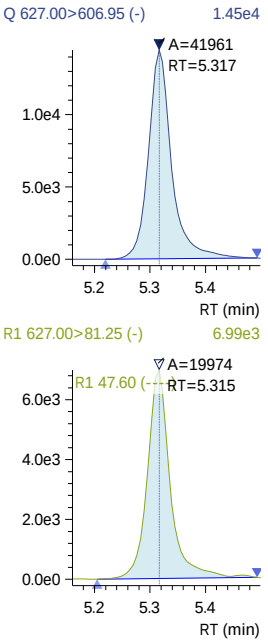


8_2-FTS-13C_IS
Conc 5.0000
ISTD 528.80>509.00 (-) 7.82e4

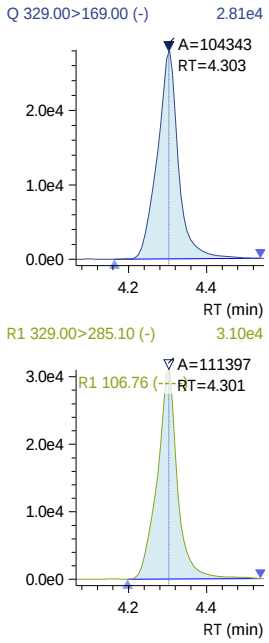


210819_023 (continued)

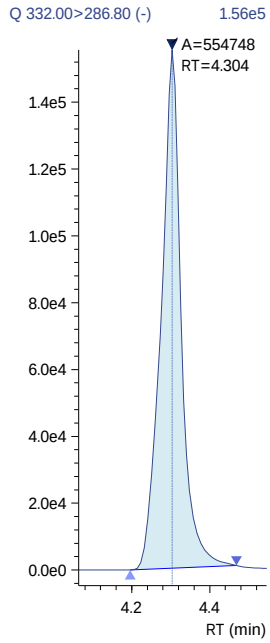
10_2-FtS_1
Conc 1.0614
R#1 47.60 (50.91)



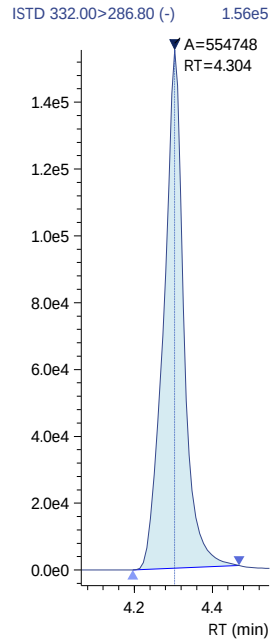
HPFO_DA
Conc 1.0157
R#1 106.76 (109.48)



HFPO_DA-13C
Conc 4.8562



HFPO_DA-13C_IS
Conc 5.0000



Insight Report
Retention Time/Signal:Noise Ratio Confirmation
Printed 8/20/2021 11:18:22

210819_024

Sample ID: PFC ICAL @ 5.0ppb
Date Acquired: 8/19/2021 7:21:11 PM
Acquired by: System Administrator
Data File: 210819_024
Vial: 5 | Inj. Volume: 15.0000uL | Tray: 0

Name	m/z	Ref 1 m/z	Found RT	RT Diff	ISTD RT Diff	S/N	Ref 1 S/N	Flag ID
13C7-PFUnDA_IS	570.00>525.00	----	5.138	0.006	----	63279	----	
PFBS_1	299.00>80.00	298.80>99.00	4.038	0.005	0.000	16490	12047	
PFBS-13C	301.80>80.00	----	4.038	0.005	-1.100	(INF)	----	
PFBS-13C_IS	301.80>80.00	----	4.038	0.005	----	(INF)	----	
PFPeS	349.00>99.00	349.00>79.95	4.258	0.005	0.220	10225	11561	
PFHxS_1	399.00>80.00	399.00>99.00	4.421	0.007	-0.003	46640	2840	
PFHxS-18O	402.70>84.05	----	4.424	0.006	-0.714	(INF)	----	
PFHxS-18O_IS	402.70>84.05	----	4.424	0.006	----	(INF)	----	
PFHpS_1	449.00>80.15	449.00>99.20	4.586	0.005	0.162	15555	2954	
PFOS_1	499.00>80.00	499.00>99.00	4.757	0.005	-0.001	9283	2232	
PFOS-13C	502.80>80.05	----	4.758	0.006	-0.380	63590	----	
PFOS-13C_IS	502.80>80.05	----	4.758	0.006	----	63590	----	
PFNS	549.00>99.00	549.00>79.95	4.938	0.005	0.180	3299	(INF)	
PFDS_1	599.00>79.90	599.00>99.10	5.117	0.006	0.359	18042	16467	
PFBA	213.00>169.10	----	3.434	0.008	0.001	6745	----	
PFBA-13C	216.90>172.15	----	3.433	0.008	-1.705	7143	----	
PFBA-13C_IS	216.90>172.15	----	3.433	0.008	----	7143	----	
PFPeA	263.05>219.10	----	3.985	0.006	0.001	9549	----	
PFPeA-13C	267.90>223.00	----	3.984	0.005	-1.154	17057	----	
PFPeA-13C_IS	267.90>223.00	----	3.984	0.005	----	17057	----	
PFHxA	313.00>269.00	313.00>119.10	4.241	0.005	0.000	10114	1063	
PFHxA-13C	314.90>270.10	----	4.241	0.005	-0.897	12422	----	
PFHxA-13C_IS	314.90>270.10	----	4.241	0.005	----	12422	----	
PFHpA	362.90>319.00	362.90>169.00	4.423	0.006	0.000	18603	1845	
PFHpA-13C	366.90>322.10	----	4.423	0.006	-0.715	49501	----	
PFHpA-13C_IS	366.90>322.10	----	4.423	0.006	----	49501	----	
PFOA	413.00>369.00	413.00>169.10	4.593	0.005	0.000	14937	9901	
PFOA-13C	416.80>372.05	----	4.593	0.005	-0.545	204563	----	
PFOA-13C_IS	416.80>372.05	----	4.593	0.005	----	204563	----	
PFNA	463.00>418.90	463.00>219.00	4.769	0.004	0.000	213485	10815	
PFNA-13C	467.80>423.00	----	4.769	0.004	-0.369	1175506	----	
PFNA-13C_IS	467.80>423.00	----	4.769	0.004	----	1175506	----	
PFDA	513.00>468.80	513.00>219.10	4.954	0.005	0.000	11596	5628	
PFDA-13C	514.80>469.95	----	4.954	0.005	-0.184	14709	----	
PFDA-13C_IS	514.80>469.95	----	4.954	0.005	----	14709	----	
PFUnA	563.00>518.90	563.00>219.00	5.138	0.005	0.000	78900	60126	
PFUnA-13C	564.80>519.95	----	5.138	0.006	0.000	52509	----	
PFUnA-13C_IS	564.80>519.95	----	5.138	0.006	----	52509	----	
PFDoA	613.05>569.00	613.05>169.00	5.316	0.005	0.000	5727	(INF)	
PFDoA-13C	614.80>569.95	----	5.316	0.005	0.178	9551	----	
PFDoA-13C_IS	614.80>569.95	----	5.316	0.005	----	9551	----	
PFTrDA	663.00>618.90	662.90>169.00	5.482	0.006	-0.156	(INF)	(INF)	
PFTeDA	713.00>669.00	713.00>169.10	5.638	0.004	0.000	14892	42088	
PFTeDA-13C	714.70>669.90	----	5.638	0.004	0.500	28342	----	
PFTeDA-13C_IS	714.70>669.90	----	5.638	0.004	----	27349	----	
FOSA	498.20>78.00	498.20>64.10	5.236	0.005	0.000	(INF)	(INF)	
FOSA-13C	506.00>78.05	----	5.236	0.005	0.098	605	----	
FOSA-13C_IS	506.00>78.05	----	5.236	0.005	----	605	----	
N-MeFOSA	512.00>169.10	512.00>219.00	5.629	0.004	0.003	(INF)	(INF)	
N-MeFOSA-d3	514.90>168.90	----	5.626	0.004	0.488	547	----	
N-MeFOSA-d3_IS	514.90>168.90	----	5.626	0.004	----	547	----	

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SN - Software-calculated S/N ratio outside criteria due to non-target peaks or drift in noise calculation window. Analyst review of noise levels (excluding non-target peaks) in chromatogram indicates S/N ratio meets criteria.

210819_024 (continued)

(Table continued from previous page)

Name	m/z	Ref 1 m/z	Found RT	RT Diff	ISTD RT Diff	S/N	Ref 1 S/N	Flag ID
N-EtFOSA	526.90>169.10	526.90>219.00	5.765	0.004	0.005	(INF)	(INF)	
N-EtFOSA-d9	530.90>169.15	----	5.760	0.004	0.622	(INF)	----	
N-EtFOSA-d9_IS	530.90>169.15	----	5.760	0.004	----	(INF)	----	
N-MeFOSE	616.00>59.00	----	5.609	0.004	0.008	(INF)	----	
N-MeFOSE-d7	622.70>59.10	----	5.601	0.004	0.463	3040	----	
N-MeFOSE-d7_IS	622.70>59.10	----	5.601	0.004	----	3040	----	
N-EtFOSE	630.00>58.90	----	5.740	0.004	0.010	(INF)	----	
N-EtFOSE-d9	638.70>59.10	----	5.730	0.004	0.592	15745	----	
N-EtFOSE-d9_IS	638.70>59.10	----	5.730	0.004	----	15745	----	
N-MeFOSAA	570.20>419.00	570.20>512.00	5.052	0.004	0.001	(INF)	1762	
N-MeFOSAA-d3	572.80>419.05	----	5.051	0.006	-0.087	2812	----	
N-MeFOSAA-d3_IS	572.80>419.05	----	5.051	0.006	----	2812	----	
N-EtFOSAA	584.20>418.95	584.20>526.10	5.152	0.004	0.003	(INF)	(INF)	
N-EtFOSAA-d5	588.80>419.00	----	5.149	0.005	0.011	41235	----	
N-EtFOSAA-d5_IS	588.80>419.00	----	5.149	0.005	----	41235	----	
4_2-FTS_1	327.00>307.05	327.00>81.10	4.216	0.006	0.000	118038	(INF)	
4_2-FTS-13C	328.80>309.05	----	4.216	0.006	-0.922	685647	----	
4_2-FTS-13C_IS	328.80>309.05	----	4.216	0.006	----	759576	----	
6_2-FTS_1	427.00>407.00	427.00>80.90	4.582	0.006	0.000	(INF)	898	
6_2-FTS-13C	428.90>409.00	----	4.582	0.004	-0.556	(INF)	----	
6_2-FTS-13C_IS	428.90>409.00	----	4.582	0.004	----	(INF)	----	
8_2-FTS_1	527.10>506.90	527.20>487.00	4.952	0.005	-0.001	(INF)	4842	
8_2-FTS-13C	528.80>509.00	----	4.953	0.006	-0.185	(INF)	----	
8_2-FTS-13C_IS	528.80>509.00	----	4.953	0.006	----	(INF)	----	
10_2-FtS_1	627.00>606.95	627.00>81.25	5.323	0.006	0.370	49001	6581	
HPFO_DA	329.00>169.00	329.00>285.10	4.309	0.006	0.000	9018	7824	
HFPO_DA-13C	332.00>286.80	----	4.309	0.005	-0.829	54590	----	
HFPO_DA-13C_IS	332.00>286.80	----	4.309	0.005	----	54590	----	

SN - Software-calculated S/N ratio outside criteria due to non-target peaks or drift in noise calculation window. Analyst review of noise levels (excluding non-target peaks) in chromatogram indicates S/N ratio meets criteria.

Insight Report
Ion Ratio Confirmation
Printed 8/20/2021 11:19:20

210819_024

Sample ID: PFC ICAL @ 5.0ppb
Date Acquired: 8/19/2021 7:21:11 PM
Acquired by: System Administrator
Data File: 210819_024
Vial: 5 | Inj. Volume: 15.0000uL | Tray: 0

Name	m/z	Ref 1 m/z	Area	Ref 1 Measured	Ref 1 Actual Ratio	Ref 1 Set Ratio	Comment 1	Flag ID
13C7-PFUnDA_IS	570.00>525.00	----	4845720	----	----	----		
PFBS_1	299.00>80.00	298.80>99.00	820199	384985	46.94	47.76	23.88-71.64	
PFBS-13C	301.80>80.00	----	501488	----	----	----	0-0	
PFBS-13C_IS	301.80>80.00	----	501488	----	----	----	0-0	
PFPeS	349.00>99.00	349.00>79.95	448610	642289	143.17	136.08	68.04 -204.13	
PFHxS_1	399.00>80.00	399.00>99.00	509091	363974	71.50	71.26	35.63 -106.89	
PFHxS-18O	402.70>84.05	----	331046	----	----	----	0-0	
PFHxS-18O_IS	402.70>84.05	----	331046	----	----	----	0-0	
PFHpS_1	449.00>80.15	449.00>99.20	633436	344085	54.32	53.84	26.92-80.76	
PFOS_1	499.00>80.00	499.00>99.00	359866	304424	84.59	86.72	43.36 -130.08	
PFOS-13C	502.80>80.05	----	413250	----	----	----	0-0	
PFOS-13C_IS	502.80>80.05	----	413250	----	----	----	0-0	
PFNS	549.00>99.00	549.00>79.95	330311	470936	142.57	129.18	64.59 -193.78	
PFDS_1	599.00>79.90	599.00>99.10	512113	440914	86.10	90.77	45.38 -136.15	
PFBA	213.00>169.10	----	2407093	----	----	----		
PFBA-13C	216.90>172.15	----	1953400	----	----	----		
PFBA-13C_IS	216.90>172.15	----	1953400	----	----	----		
PFPeA	263.05>219.10	----	3702721	----	----	----		
PFPeA-13C	267.90>223.00	----	1290977	----	----	----	0-0	
PFPeA-13C_IS	267.90>223.00	----	1290977	----	----	----	0-0	
PFHxA	313.00>269.00	313.00>119.10	4612354	208990	4.53	4.17	2.08-6.25	
PFHxA-13C	314.90>270.10	----	3341261	----	----	----	0-0	
PFHxA-13C_IS	314.90>270.10	----	3341261	----	----	----	0-0	
PFHpA	362.90>319.00	362.90>169.00	3736150	885239	23.69	26.04	13.02-39.07	
PFHpA-13C	366.90>322.10	----	3478401	----	----	----	0-0	
PFHpA-13C_IS	366.90>322.10	----	3478401	----	----	----	0-0	
PFOA	413.00>369.00	413.00>169.10	5719643	1744124	30.49	30.35	15.18-45.53	
PFOA-13C	416.80>372.05	----	4004592	----	----	----	0-0	
PFOA-13C_IS	416.80>372.05	----	4004592	----	----	----	0-0	
PFNA	463.00>418.90	463.00>219.00	3817392	788884	20.67	22.35	11.18-33.53	
PFNA-13C	467.80>423.00	----	3061524	----	----	----	0-0	
PFNA-13C_IS	467.80>423.00	----	3061524	----	----	----	0-0	
PFDA	513.00>468.80	513.00>219.10	3433405	648262	18.88	18.73	9.36-28.09	
PFDA-13C	514.80>469.95	----	2259073	----	----	----	0-0	
PFDA-13C_IS	514.80>469.95	----	2259073	----	----	----	0-0	
PFUnA	563.00>518.90	563.00>219.00	3724451	433553	11.64	11.60	5.8-17.4	
PFUnA-13C	564.80>519.95	----	3058561	----	----	----	0-0	
PFUnA-13C_IS	564.80>519.95	----	3058561	----	----	----	0-0	
PFDoA	613.05>569.00	613.05>169.00	3350409	543304	16.22	15.11	7.55-22.66	
PFDoA-13C	614.80>569.95	----	3343336	----	----	----	0-0	
PFDoA-13C_IS	614.80>569.95	----	3343336	----	----	----	0-0	
PFTrDA	663.00>618.90	662.90>169.00	3409653	497115	14.58	14.19	7.09-21.28	
PFTeDA	713.00>669.00	713.00>169.10	2536820	393410	15.51	14.98	7.49-22.46	
PFTeDA-13C	714.70>669.90	----	2301560	----	----	----	0-0	
PFTeDA-13C_IS	714.70>669.90	----	2301560	----	----	----	0-0	
FOSA	498.20>78.00	498.20>64.10	1880799	94501	5.03	4.89	2.44-7.33	

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Comment 1 field specifies acceptance range for Ref 1 ratio.
IRr - Ion ratio outside criteria. Exceedances for results above the MDL to be "K" flagged in the analytical report.

210819_024 (continued)

(Table continued from previous page)

Name	m/z	Ref 1 m/z	Area	Ref 1 Measured	Ref 1 Actual Ratio	Ref 1 Set Ratio	Comment 1	Flag ID
FOSA-13C	506.00>78.05	----	1440190	----	----	----	0-0	
FOSA-13C_IS	506.00>78.05	----	1440190	----	----	----	0-0	
N-MeFOSA	512.00>169.10	512.00>219.00	608180	399671	65.72	62.72	31.36-94.08	
N-MeFOSA-d3	514.90>168.90	----	321438	----	----	----	0-0	
N-MeFOSA-d3_IS	514.90>168.90	----	321438	----	----	----	0-0	
N-EtFOSA	526.90>169.10	526.90>219.00	115940	77834	67.13	63.35	31.68-95.03	
N-EtFOSA-d9	530.90>169.15	----	380402	----	----	----	0-0	
N-EtFOSA-d9_IS	530.90>169.15	----	380402	----	----	----	0-0	
N-MeFOSE	616.00>59.00	----	742819	----	----	----		
N-MeFOSE-d7	622.70>59.10	----	338840	----	----	----		
N-MeFOSE-d7_IS	622.70>59.10	----	338840	----	----	----		
N-EtFOSE	630.00>58.90	----	812270	----	----	----		
N-EtFOSE-d9	638.70>59.10	----	329882	----	----	----	0-0	
N-EtFOSE-d9_IS	638.70>59.10	----	329882	----	----	----	0-0	
N-MeFOSAA	570.20>419.00	570.20>512.00	264188	127899	48.41	35.26	17.63-52.88	
N-MeFOSAA-d3	572.80>419.05	----	280766	----	----	----	0-0	
N-MeFOSAA-d3 _IS	572.80>419.05	----	280766	----	----	----	0-0	
N-EtFOSAA	584.20>418.95	584.20>526.10	229723	207875	90.49	77.25	38.62 -115.87	
N-EtFOSAA-d5	588.80>419.00	----	257555	----	----	----	0-0	
N-EtFOSAA-d5_IS	588.80>419.00	----	257555	----	----	----	0-0	
4_2-FTS_1	327.00>307.05	327.00>81.10	508519	144639	28.44	39.85	19.92-59.77	
4_2-FTS-13C	328.80>309.05	----	544745	----	----	----	0-0	
4_2-FTS-13C_IS	328.80>309.05	----	544745	----	----	----	0-0	
6_2-FTS_1	427.00>407.00	427.00>80.90	706762	214779	30.39	29.95	14.97-44.92	
6_2-FTS-13C	428.90>409.00	----	517157	----	----	----	0-0	
6_2-FTS-13C_IS	428.90>409.00	----	517157	----	----	----	0-0	
8_2-FTS_1	527.10>506.90	527.20>487.00	309669	29897	9.65	9.42	4.71-14.13	
8_2-FTS-13C	528.80>509.00	----	283298	----	----	----	0-0	
8_2-FTS-13C_IS	528.80>509.00	----	283298	----	----	----	0-0	
10_2-FtS_1	627.00>606.95	627.00>81.25	225704	109385	48.46	49.86	24.93-74.78	
HPFO_DA	329.00>169.00	329.00>285.10	587864	586815	99.82	101.52	50.76 -152.28	
HFPO_DA-13C	332.00>286.80	----	617306	----	----	----		
HFPO_DA-13C_IS	332.00>286.80	----	617306	----	----	----		

Comment 1 field specifies acceptance range for Ref 1 ratio.
IRr - Ion ratio outside criteria. Exceedances for results above the MDL to be "K" flagged in the analytical report.

Insight Report
Quantitation/Integration
Printed 8/20/2021 11:13:44

210819_024

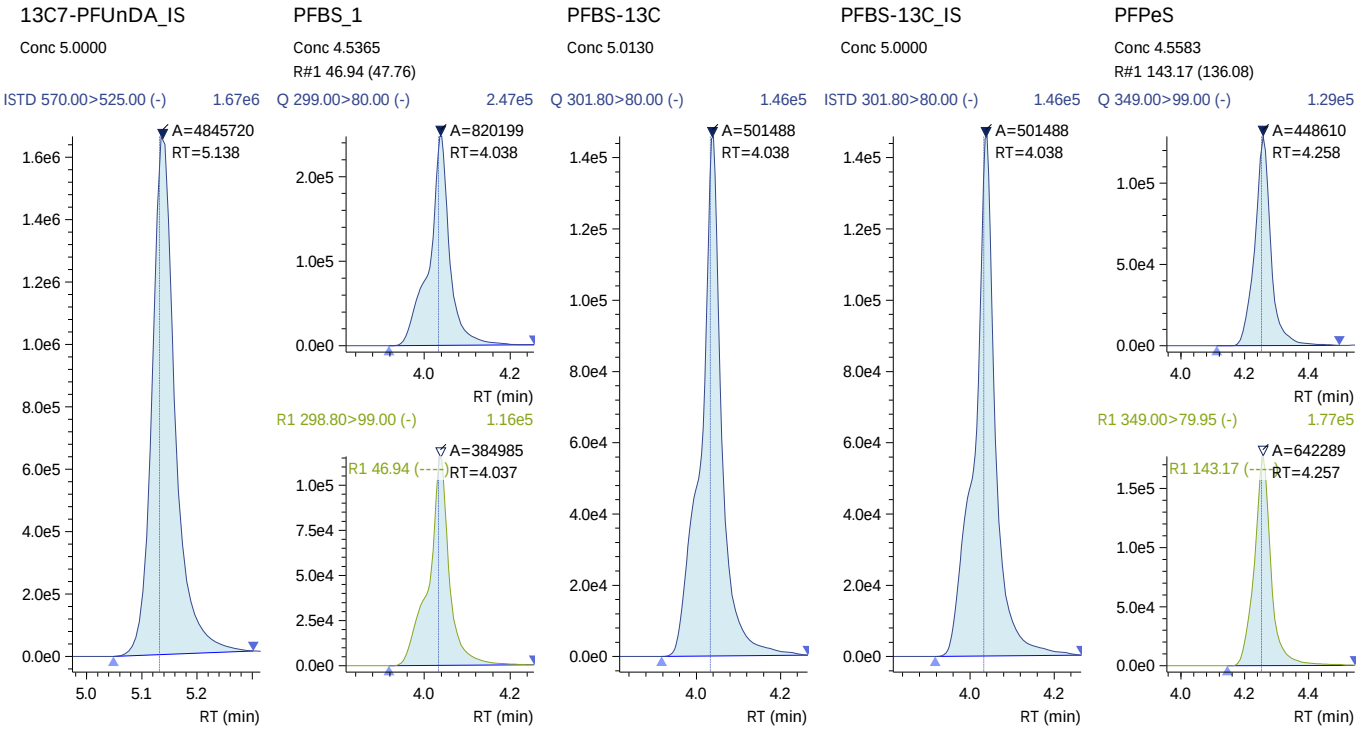
Sample ID: PFC ICAL @ 5.0ppb
Date Acquired: 8/19/2021 7:21:11 PM
Acquired by: System Administrator
Data File: 210819_024
Vial: 5 | Inj. Volume: 15.0000uL | Tray: 0

Name	Mode ID	Found RT	Area	ISTD Area	ISTD Name	Std. Conc.	Conc.	Unit
13C7-PFUnDA_IS	Auto	5.138	4845720	4845720	----	5.0000	5.0000	ng/mL
PFBS_1	Auto	4.038	820199	501488	PFBS-13C_IS	4.4369	4.5365	ng/mL
PFBS-13C	Auto	4.038	501488	4845720	13C7-PFUnDA_IS	5.0000	5.0130	ng/mL
PFBS-13C_IS	Auto	4.038	501488	501488	----	5.0000	5.0000	ng/mL
PFPeS	Auto	4.258	448610	501488	PFBS-13C_IS	4.7046	4.5583	ng/mL
PFHxS_1	Auto	4.421	509091	331046	PFHxS-18O_IS	4.5654	4.6069	ng/mL
PFHxS-18O	Auto	4.424	331046	4845720	13C7-PFUnDA_IS	5.0000	4.8533	ng/mL
PFHxS-18O_IS	Auto	4.424	331046	331046	----	5.0000	5.0000	ng/mL
PFHpS_1	Auto	4.586	633436	331046	PFHxS-18O_IS	4.7672	4.5590	ng/mL
PFOS_1	Auto	4.757	359866	413250	PFOS-13C_IS	4.6461	4.6292	ng/mL
PFOS-13C	Auto	4.758	413250	4845720	13C7-PFUnDA_IS	5.0000	4.8747	ng/mL
PFOS-13C_IS	Auto	4.758	413250	413250	----	5.0000	5.0000	ng/mL
PFNS	Auto	4.938	330311	413250	PFOS-13C_IS	4.8079	4.6984	ng/mL
PFDS_1	Auto	5.117	512113	413250	PFOS-13C_IS	4.8233	5.0718	ng/mL
PFBA	M	3.434	2407093	1953400	PFBA-13C_IS	5.0000	4.9377	ng/mL
PFBA-13C	Auto	3.433	1953400	4845720	13C7-PFUnDA_IS	5.0000	4.9357	ng/mL
PFBA-13C_IS	Auto	3.433	1953400	1953400	----	5.0000	5.0000	ng/mL
PFPeA	Auto	3.985	3702721	1290977	PFPeA-13C_IS	5.0000	4.5097	ng/mL
PFPeA-13C	Auto	3.984	1290977	4845720	13C7-PFUnDA_IS	5.0000	4.9497	ng/mL
PFPeA-13C_IS	Auto	3.984	1290977	1290977	----	5.0000	5.0000	ng/mL
PFHxA	Auto	4.241	4612354	3341261	PFHxA-13C_IS	5.0000	5.0948	ng/mL
PFHxA-13C	Auto	4.241	3341261	4845720	13C7-PFUnDA_IS	5.0000	4.6527	ng/mL
PFHxA-13C_IS	Auto	4.241	3341261	3341261	----	5.0000	5.0000	ng/mL
PFHpA	Auto	4.423	3736150	3478401	PFHpA-13C_IS	5.0000	4.9394	ng/mL
PFHpA-13C	Auto	4.423	3478401	4845720	13C7-PFUnDA_IS	5.0000	4.7707	ng/mL
PFHpA-13C_IS	Auto	4.423	3478401	3478401	----	5.0000	5.0000	ng/mL
PFOA	Auto	4.593	5719643	4004592	PFOA-13C_IS	5.0000	4.6470	ng/mL
PFOA-13C	Auto	4.593	4004592	4845720	13C7-PFUnDA_IS	5.0000	4.9337	ng/mL
PFOA-13C_IS	Auto	4.593	4004592	4004592	----	5.0000	5.0000	ng/mL
PFNA	Auto	4.769	3817392	3061524	PFNA-13C_IS	5.0000	5.0514	ng/mL
PFNA-13C	Auto	4.769	3061524	4845720	13C7-PFUnDA_IS	5.0000	4.9446	ng/mL
PFNA-13C_IS	Auto	4.769	3061524	3061524	----	5.0000	5.0000	ng/mL
PFDA	Auto	4.954	3433405	2259073	PFDA-13C_IS	5.0000	5.0812	ng/mL
PFDA-13C	Auto	4.954	2259073	4845720	13C7-PFUnDA_IS	5.0000	4.9363	ng/mL
PFDA-13C_IS	Auto	4.954	2259073	2259073	----	5.0000	5.0000	ng/mL
PFUnA	Auto	5.138	3724451	3058561	PFUnA-13C_IS	5.0000	5.0975	ng/mL
PFUnA-13C	Auto	5.138	3058561	4845720	13C7-PFUnDA_IS	5.0000	5.0162	ng/mL
PFUnA-13C_IS	Auto	5.138	3058561	3058561	----	5.0000	5.0000	ng/mL
PFDoA	Auto	5.316	3350409	3343336	PFDoA-13C_IS	5.0000	5.1503	ng/mL
PFDoA-13C	Auto	5.316	3343336	4845720	13C7-PFUnDA_IS	5.0000	5.0056	ng/mL
PFDoA-13C_IS	Auto	5.316	3343336	3343336	----	5.0000	5.0000	ng/mL
PFTrDA	Auto	5.482	3409653	2301560	PFTeDA-13C_IS	5.0000	4.9897	ng/mL
PFTeDA	Auto	5.638	2536820	2301560	PFTeDA-13C_IS	5.0000	4.9027	ng/mL
PFTeDA-13C	Auto	5.638	2301560	4845720	13C7-PFUnDA_IS	5.0000	5.0919	ng/mL
PFTeDA-13C_IS	Auto	5.638	2301560	2301560	----	5.0000	5.0000	ng/mL
FOSA	Auto	5.236	1880799	1440190	FOSA-13C_IS	5.0000	5.1383	ng/mL
FOSA-13C	Auto	5.236	1440190	4845720	13C7-PFUnDA_IS	5.0000	5.0034	ng/mL
FOSA-13C_IS	Auto	5.236	1440190	1440190	----	5.0000	5.0000	ng/mL
N-MeFOSA	Auto	5.629	608180	321438	N-MeFOSA-d3_IS	5.0000	5.0543	ng/mL
N-MeFOSA-d3	Auto	5.626	321438	4845720	13C7-PFUnDA_IS	5.0000	4.8026	ng/mL
N-MeFOSA-d3_IS	Auto	5.626	321438	321438	----	5.0000	5.0000	ng/mL
N-EtFOSA	Auto	5.765	115940	380402	N-EtFOSA-d9_IS	5.0000	4.8634	ng/mL
N-EtFOSA-d9	Auto	5.760	380402	4845720	13C7-PFUnDA_IS	5.0000	5.0022	ng/mL
N-EtFOSA-d9_IS	Auto	5.760	380402	380402	----	5.0000	5.0000	ng/mL

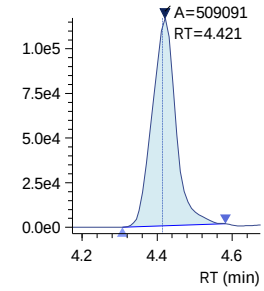
210819_024 (continued)

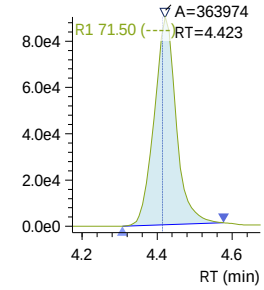
(Table continued from previous page)

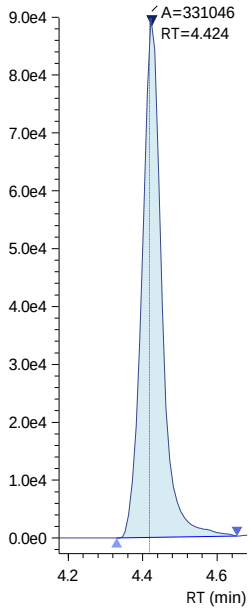
Name	Mode ID	Found RT	Area	ISTD Area	ISTD Name	Std. Conc.	Conc.	Unit
N-MeFOSE	Auto	5.609	742819	338840	N-MeFOSE-d7_IS	5.0000	5.0059	ng/mL
N-MeFOSE-d7	Auto	5.601	338840	4845720	13C7-PFUnDA_IS	5.0000	5.0626	ng/mL
N-MeFOSE-d7_IS	Auto	5.601	338840	338840	----	5.0000	5.0000	ng/mL
N-EtFOSE	Auto	5.740	812270	329882	N-EtFOSE-d9_IS	5.0000	5.3809	ng/mL
N-EtFOSE-d9	Auto	5.730	329882	4845720	13C7-PFUnDA_IS	5.0000	4.7606	ng/mL
N-EtFOSE-d9_IS	Auto	5.730	329882	329882	----	5.0000	5.0000	ng/mL
N-MeFOSAA	Auto	5.052	264188	280766	N-MeFOSAA-d3_IS	5.0000	4.8316	ng/mL
N-MeFOSAA-d3	Auto	5.051	280766	4845720	13C7-PFUnDA_IS	5.0000	5.1434	ng/mL
N-MeFOSAA-d3_IS	Auto	5.051	280766	280766	----	5.0000	5.0000	ng/mL
N-EtFOSAA	Auto	5.152	229723	257555	N-EtFOSAA-d5_IS	5.0000	5.0325	ng/mL
N-EtFOSAA-d5	Auto	5.149	257555	4845720	13C7-PFUnDA_IS	5.0000	5.0682	ng/mL
N-EtFOSAA-d5_IS	Auto	5.149	257555	257555	----	5.0000	5.0000	ng/mL
4_2-FTS_1	Auto	4.216	508519	544745	4_2-FTS-13C_IS	4.6861	4.6595	ng/mL
4_2-FTS-13C	Auto	4.216	544745	4845720	13C7-PFUnDA_IS	5.0000	4.8919	ng/mL
4_2-FTS-13C_IS	Auto	4.216	544745	544745	----	5.0000	5.0000	ng/mL
6_2-FTS_1	Auto	4.582	706762	517157	6_2-FTS-13C_IS	4.7558	4.9130	ng/mL
6_2-FTS-13C	Auto	4.582	517157	4845720	13C7-PFUnDA_IS	5.0000	4.9160	ng/mL
6_2-FTS-13C_IS	Auto	4.582	517157	517157	----	5.0000	5.0000	ng/mL
8_2-FTS_1	Auto	4.952	309669	283298	8_2-FTS-13C_IS	4.8002	4.6996	ng/mL
8_2-FTS-13C	Auto	4.953	283298	4845720	13C7-PFUnDA_IS	5.0000	5.0596	ng/mL
8_2-FTS-13C_IS	Auto	4.953	283298	283298	----	5.0000	5.0000	ng/mL
10_2-FtS_1	Auto	5.323	225704	283298	8_2-FTS-13C_IS	4.8310	4.9514	ng/mL
HPFO_DA	Auto	4.309	587864	617306	HFPO_DA-13C_IS	5.0000	5.2354	ng/mL
HFPO_DA-13C	Auto	4.309	617306	4845720	13C7-PFUnDA_IS	5.0000	4.9304	ng/mL
HFPO_DA-13C_IS	Auto	4.309	617306	617306	----	5.0000	5.0000	ng/mL

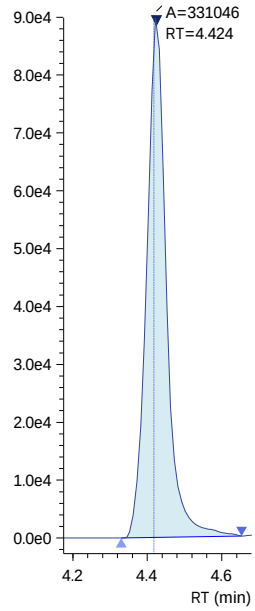


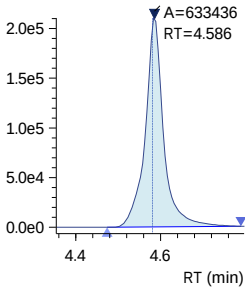
210819_024 (continued)

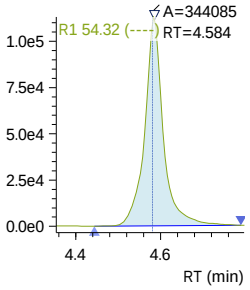
PFHxS_1
Conc 4.6069
R#1 71.50 (71.26)
Q 399.00>80.00 (-) 1.17e5


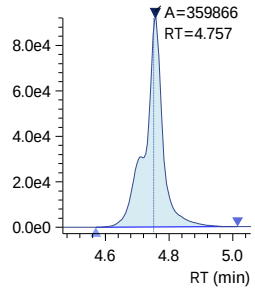
R1 399.00>99.00 (-) 9.05e4


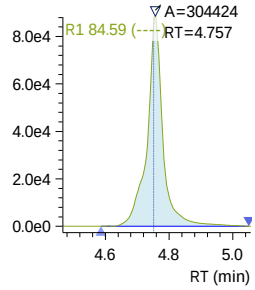
PFHxS-18O
Conc 4.8533
Q 402.70>84.05 (-) 8.99e4


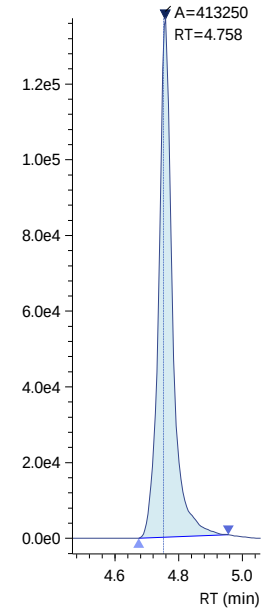
PFHxS-18O_IS
Conc 5.0000
ISTD 402.70>84.05 (-) 8.99e4


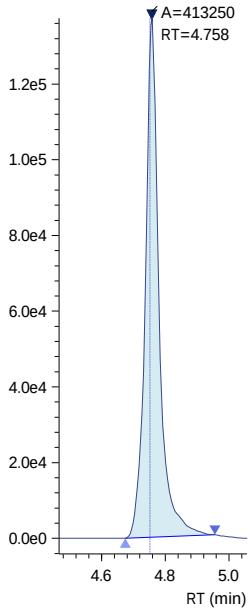
PFHpS_1
Conc 4.5590
R#1 54.32 (53.84)
Q 449.00>80.15 (-) 2.11e5


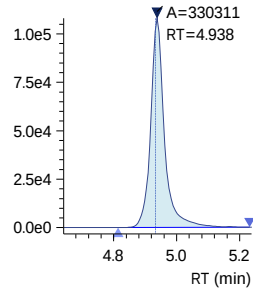
R1 449.00>99.20 (-) 1.13e5


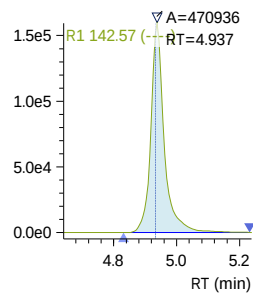
PFOS_1
Conc 4.6292
R#1 84.59 (86.72)
Q 499.00>80.00 (-) 9.21e4


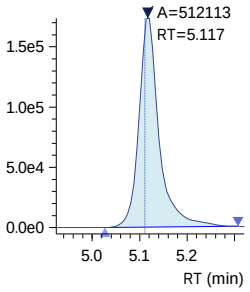
R1 499.00>99.00 (-) 8.82e4


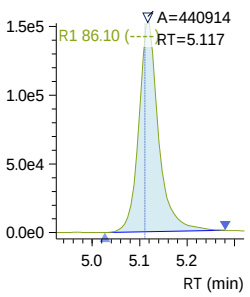
PFOS-13C
Conc 4.8747
Q 502.80>80.05 (-) 1.37e5


PFOS-13C_IS
Conc 5.0000
ISTD 502.80>80.05 (-) 1.37e5


PFNS
Conc 4.6984
R#1 142.57 (129.18)
Q 549.00>99.00 (-) 1.08e5


R1 549.00>79.95 (-) 1.59e5


PFDS_1
Conc 5.0718
R#1 86.10 (90.77)
Q 599.00>79.90 (-) 1.74e5


R1 599.00>99.10 (-) 1.52e5


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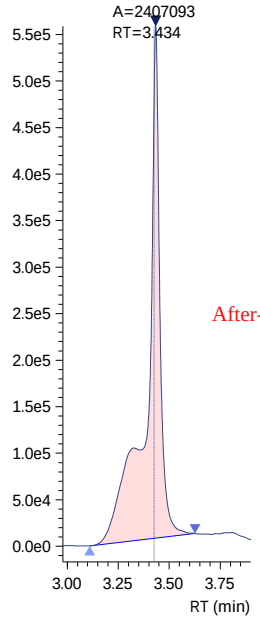
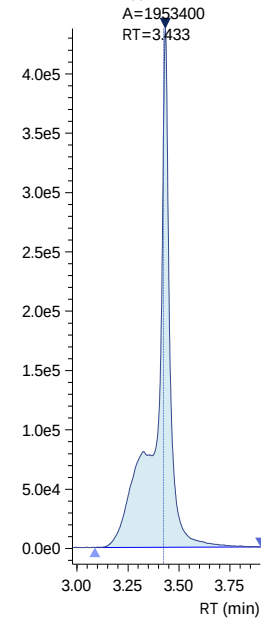
Conc 4.9377
Q 213.00>169.10 (-) 5.59e5


After-OI

210819_024 (continued)

PFBA-13C
Conc 4.9357
Q 216.90>172.15 (-) 4.38e5



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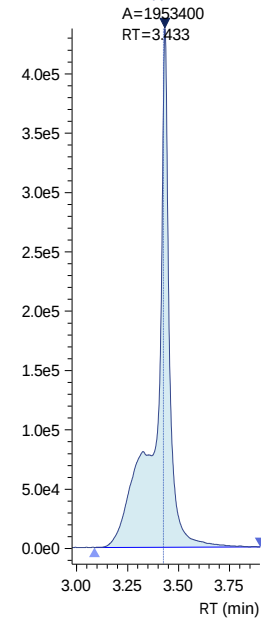
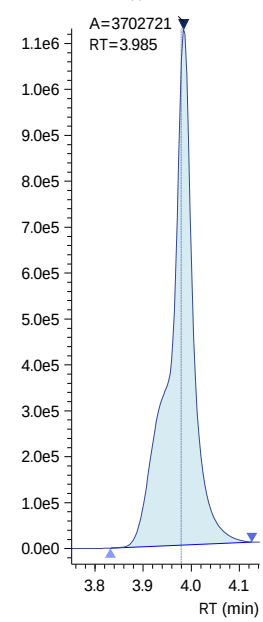
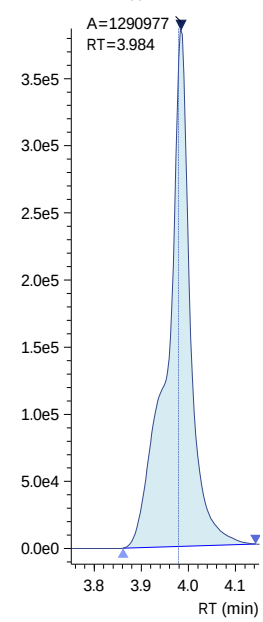
Conc 5.0000
ISTD 216.90>172.15 (-) 4.38e5



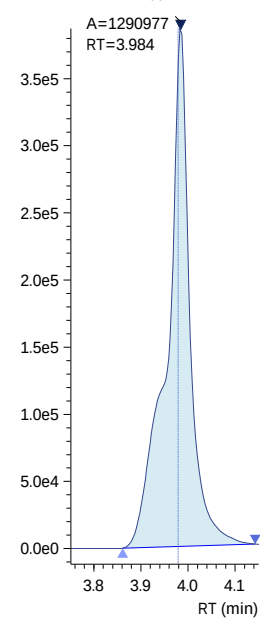
PFPeA
Conc 4.5097
Q 263.05>219.10 (-) 1.13e6



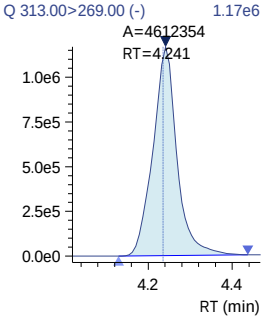
PFPeA-13C
Conc 4.9497
Q 267.90>223.00 (-) 3.87e5



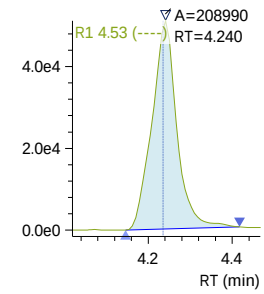
PFPeA-13C_IS
Conc 5.0000
ISTD 267.90>223.00 (-) 3.87e5



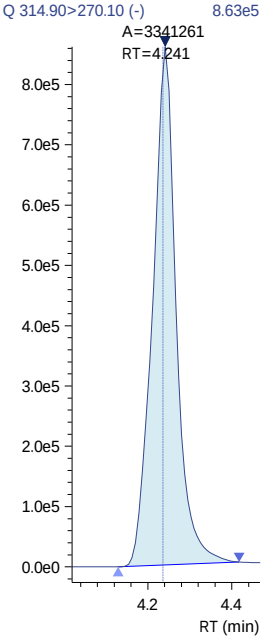
PFHxA
Conc 5.0948
R#1 4.53 (4.17)
Q 313.00>269.00 (-) 1.17e6



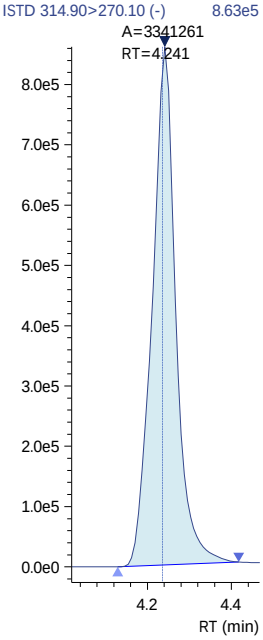
R1 313.00>119.10 (-) 5.12e4



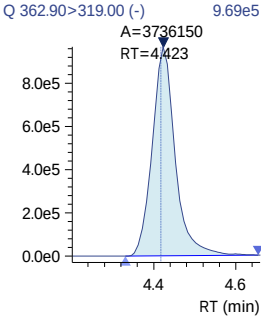
PFHxA-13C
Conc 4.6527
Q 314.90>270.10 (-) 8.63e5



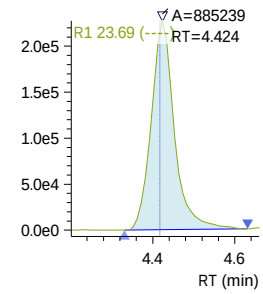
PFHxA-13C_IS
Conc 5.0000
ISTD 314.90>270.10 (-) 8.63e5



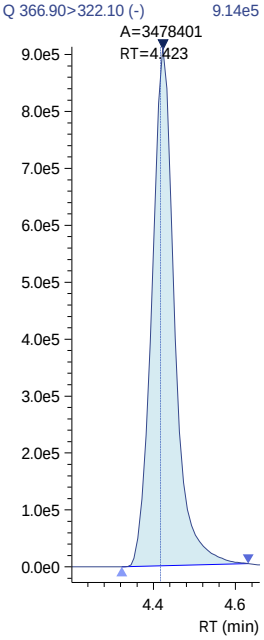
PFHpA
Conc 4.9394
R#1 23.69 (26.04)
Q 362.90>319.00 (-) 9.69e5



R1 362.90>169.00 (-) 2.28e5

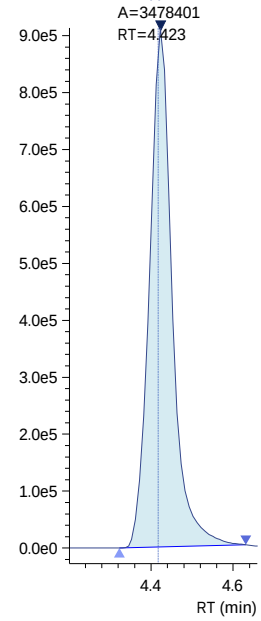


PFHpA-13C
Conc 4.7707
Q 366.90>322.10 (-) 9.14e5

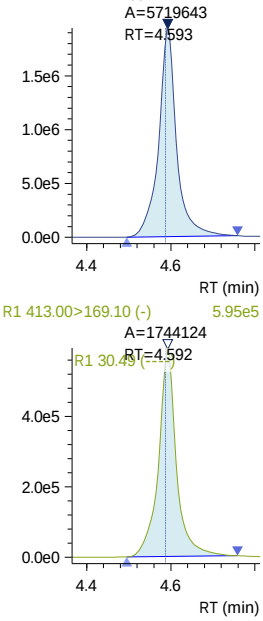


210819_024 (continued)

PFHpA-13C_IS
Conc 5.0000
ISTD 366.90>322.10 (-) 9.14e5

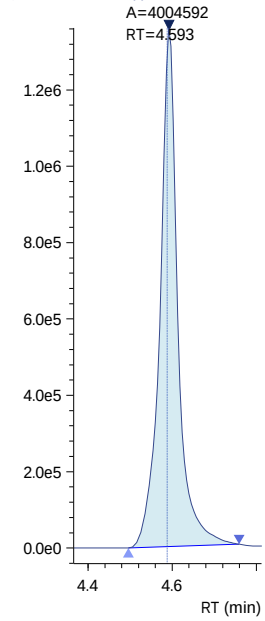


PFOA
Conc 4.6470
R#1 30.49 (30.35)
Q 413.00>369.00 (-) 1.94e6

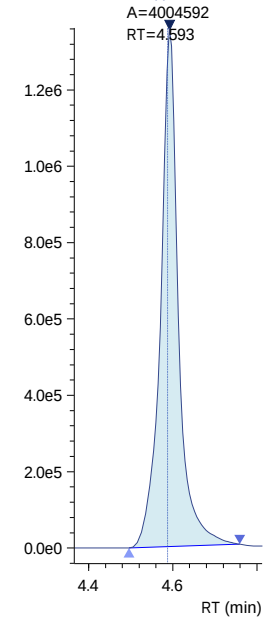


R1 413.00>169.10 (-) 5.95e5

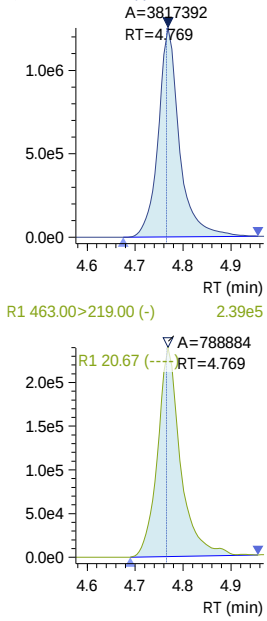
PFOA-13C
Conc 4.9337
Q 416.80>372.05 (-) 1.36e6



PFOA-13C_IS
Conc 5.0000
ISTD 416.80>372.05 (-) 1.36e6

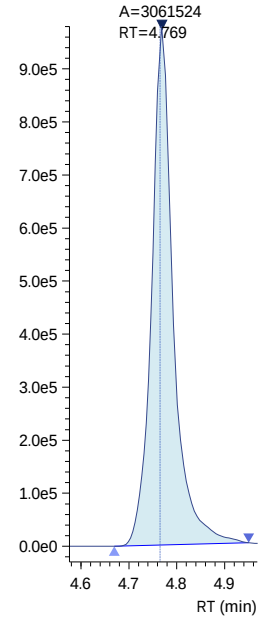


PFNA
Conc 5.0514
R#1 20.67 (22.35)
Q 463.00>418.90 (-) 1.25e6

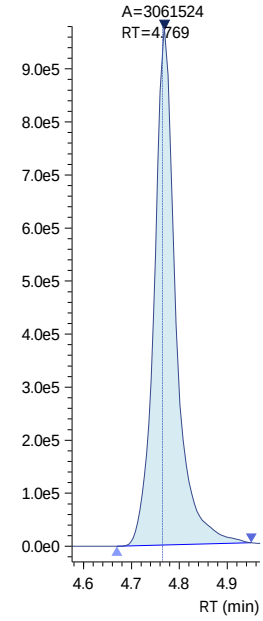


R1 463.00>219.00 (-) 2.39e5

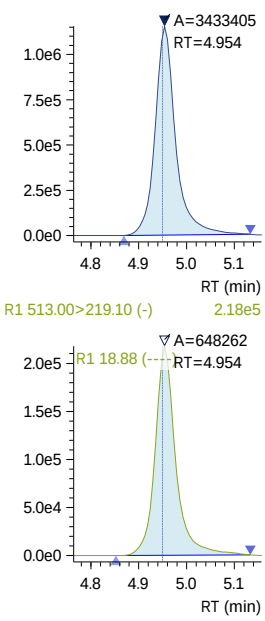
PFNA-13C
Conc 4.9446
Q 467.80>423.00 (-) 9.80e5



PFNA-13C_IS
Conc 5.0000
ISTD 467.80>423.00 (-) 9.80e5

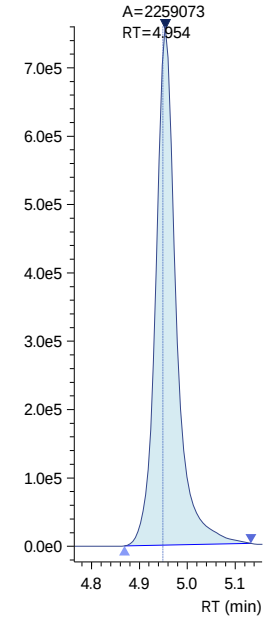


PFDA
Conc 5.0812
R#1 18.88 (18.73)
Q 513.00>468.80 (-) 1.16e6

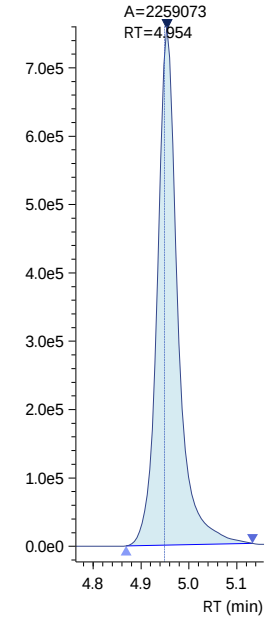


R1 513.00>219.10 (-) 2.18e5

PFDA-13C
Conc 4.9363
Q 514.80>469.95 (-) 7.61e5

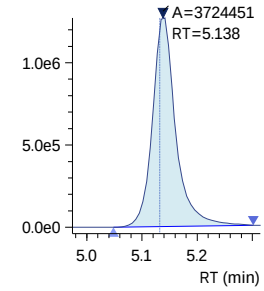


PFDA-13C_IS
Conc 5.0000
ISTD 514.80>469.95 (-) 7.61e5

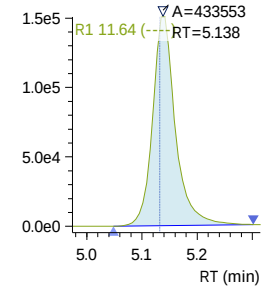


210819_024 (continued)

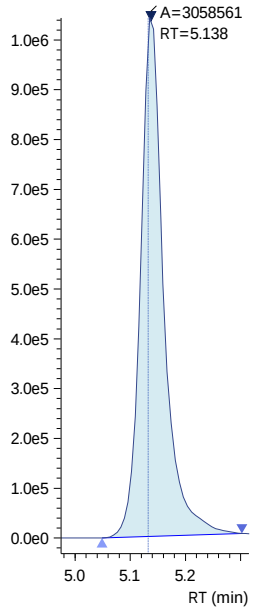
PFUnA
Conc 5.0975
R#1 11.64 (11.60)
Q 563.00>518.90 (-) 1.27e6



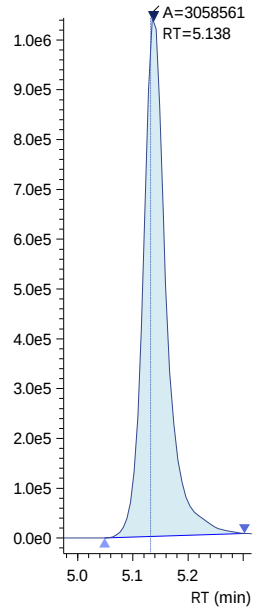
R1 563.00>219.00 (-) 1.51e5



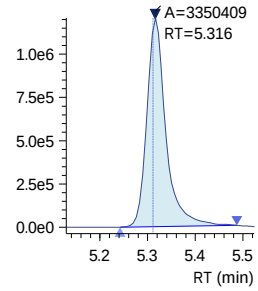
PFUnA-13C
Conc 5.0162
Q 564.80>519.95 (-) 1.04e6



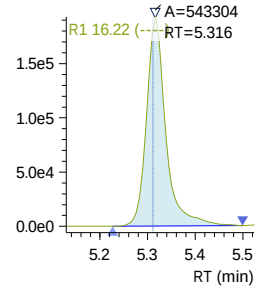
PFUnA-13C_IS
Conc 5.0000
ISTD 564.80>519.95 (-) 1.04e6



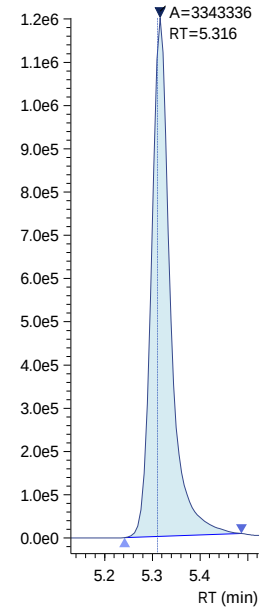
PFDoA
Conc 5.1503
R#1 16.22 (15.11)
Q 613.05>569.00 (-) 1.21e6



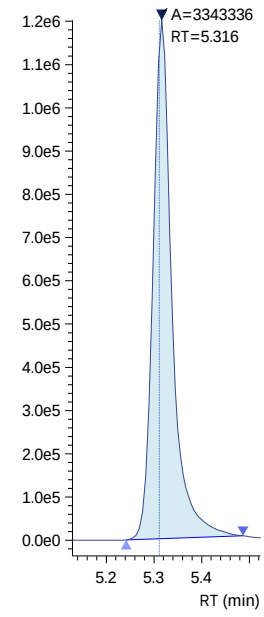
R1 613.05>169.00 (-) 1.93e5



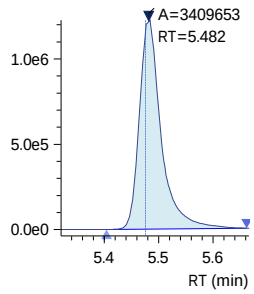
PFDoA-13C
Conc 5.0056
Q 614.80>569.95 (-) 1.20e6



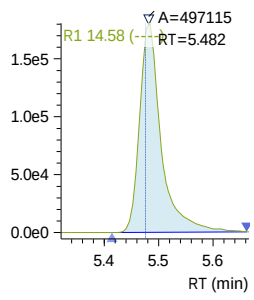
PFDoA-13C_IS
Conc 5.0000
ISTD 614.80>569.95 (-) 1.20e6



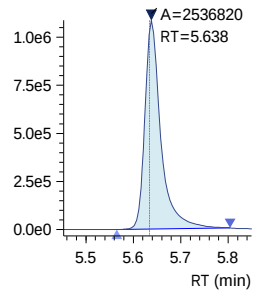
PFTrDA
Conc 4.9897
R#1 14.58 (14.19)
Q 663.00>618.90 (-) 1.23e6



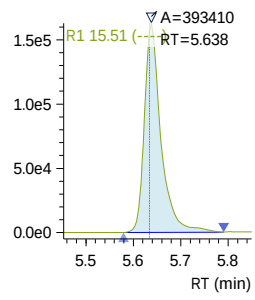
R1 662.90>169.00 (-) 1.81e5



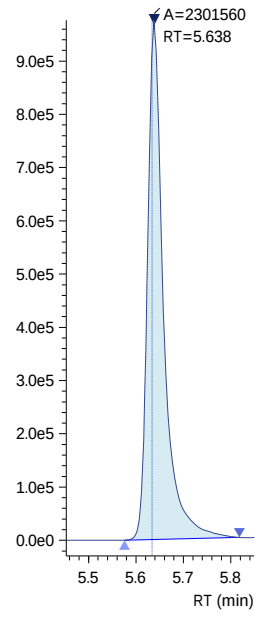
PFTeDA
Conc 4.9027
R#1 15.51 (14.98)
Q 713.00>669.00 (-) 1.09e6



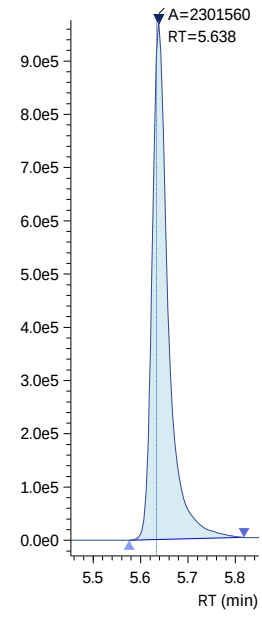
R1 713.00>169.10 (-) 1.63e5



PFTeDA-13C
Conc 5.0919
Q 714.70>669.90 (-) 9.77e5

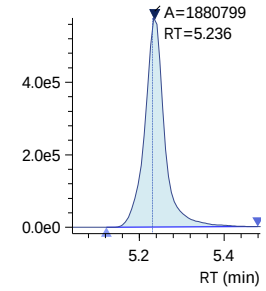


PFTeDA-13C_IS
Conc 5.0000
ISTD 714.70>669.90 (-) 9.77e5

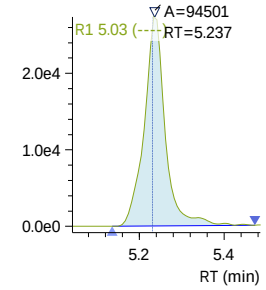


210819_024 (continued)

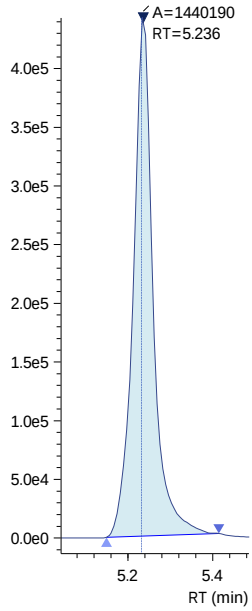
FOSA
Conc 5.1383
R#1 5.03 (4.89)
Q 498.20>78.00 (-) 5.77e5



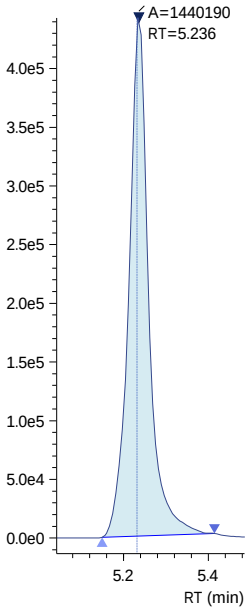
R1 498.20>64.10 (-) 2.74e4



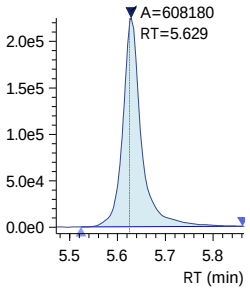
FOSA-13C
Conc 5.0034
Q 506.00>78.05 (-) 4.43e5



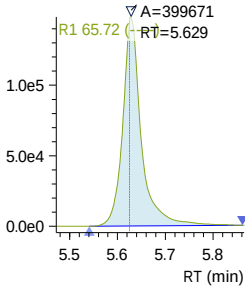
FOSA-13C_IS
Conc 5.0000
ISTD 506.00>78.05 (-) 4.43e5



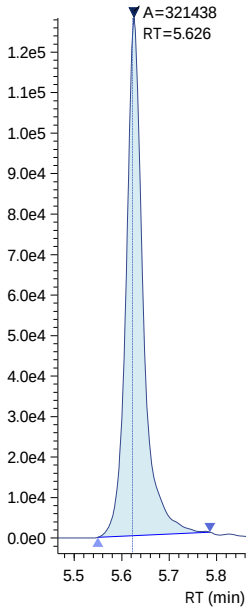
N-MeFOSA
Conc 5.0543
R#1 65.72 (62.72)
Q 512.00>169.10 (-) 2.25e5



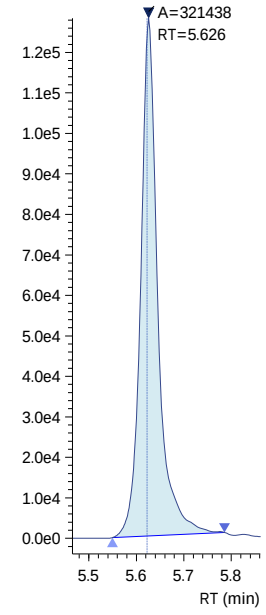
R1 512.00>219.00 (-) 1.48e5



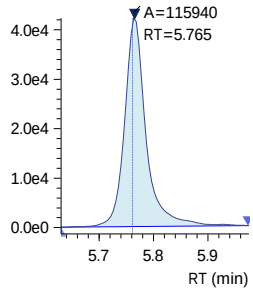
N-MeFOSA-d3
Conc 4.8026
Q 514.90>168.90 (-) 1.28e5



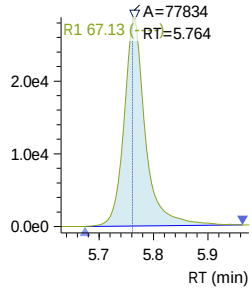
N-MeFOSA-d3_IS
Conc 5.0000
ISTD 514.90>168.90 (-) 1.28e5



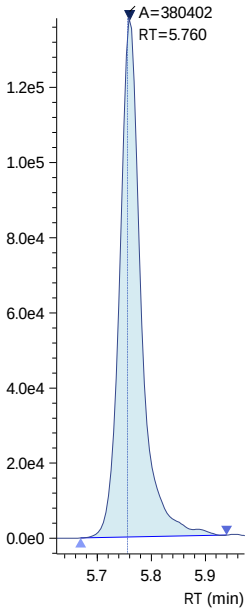
N-EtFOSA
Conc 4.8634
R#1 67.13 (63.35)
Q 526.90>169.10 (-) 4.23e4



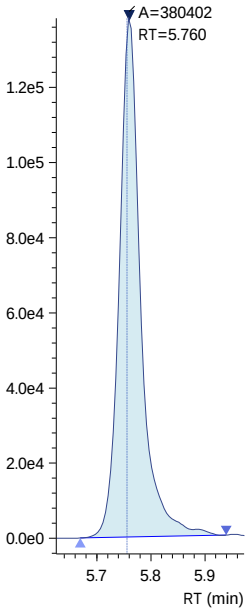
R1 526.90>219.00 (-) 2.88e4



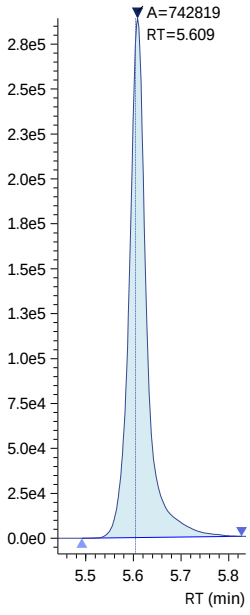
N-EtFOSA-d9
Conc 5.0022
Q 530.90>169.15 (-) 1.38e5



N-EtFOSA-d9_IS
Conc 5.0000
ISTD 530.90>169.15 (-) 1.38e5

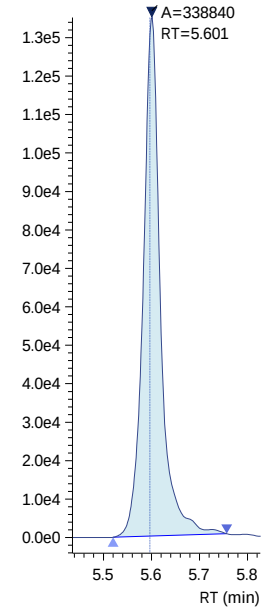


N-MeFOSE
Conc 5.0059
Q 616.00>59.00 (-) 2.89e5

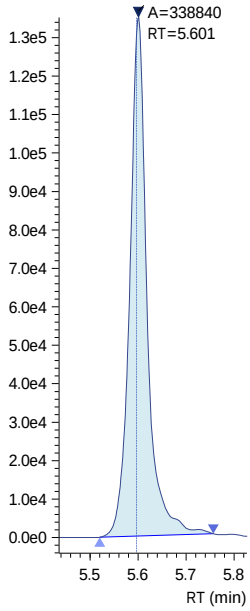


210819_024 (continued)

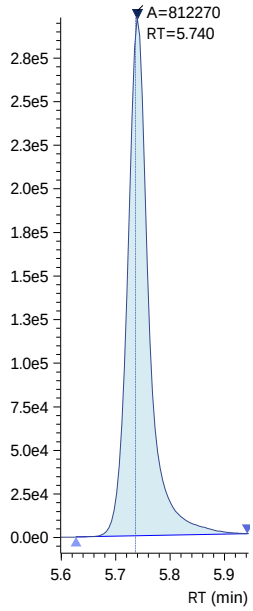
N-MeFOSE-d7
Conc 5.0626
Q 622.70>59.10 (-) 1.35e5



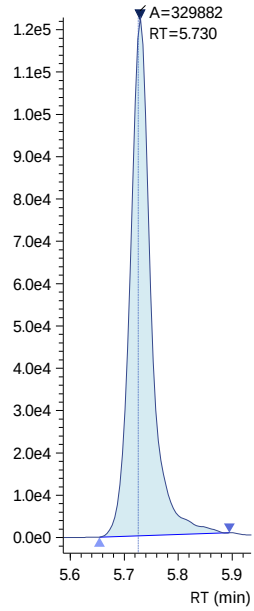
N-MeFOSE-d7_IS
Conc 5.0000
ISTD 622.70>59.10 (-) 1.35e5



N-EtFOSE
Conc 5.3809
Q 630.00>58.90 (-) 2.98e5



N-EtFOSE-d9
Conc 4.7606
Q 638.70>59.10 (-) 1.23e5



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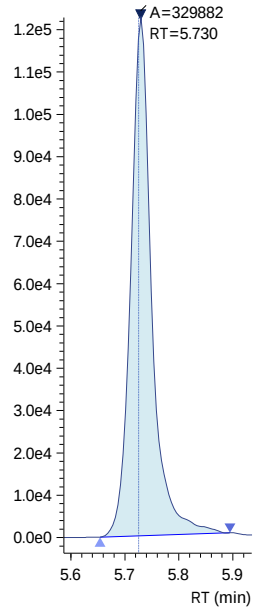
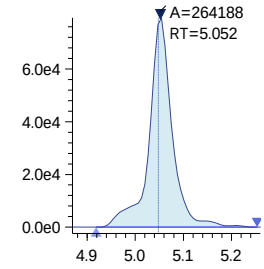
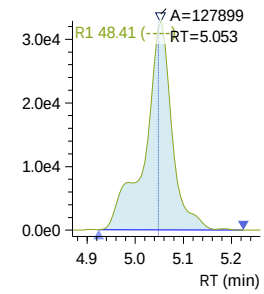
Conc 5.0000
ISTD 638.70>59.10 (-) 1.23e5



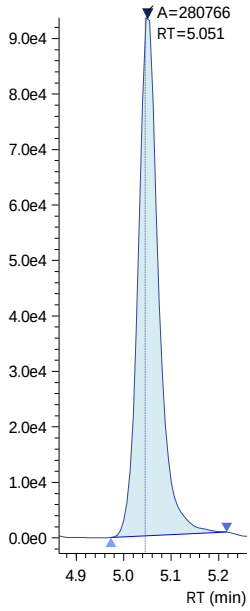
N-MeFOSAA
Conc 4.8316
R#1 48.41 (35.26)
Q 570.20>419.00 (-) 7.94e4



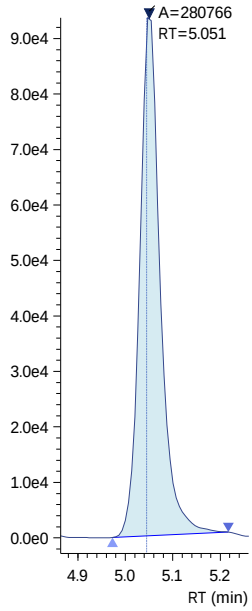
R1 570.20>512.00 (-) 3.29e4



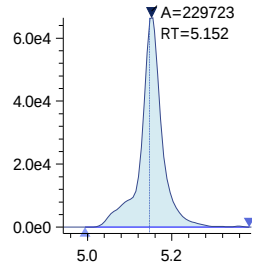
N-MeFOSAA-d3
Conc 5.1434
Q 572.80>419.05 (-) 9.37e4



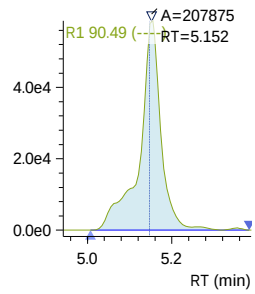
N-MeFOSAA-d3_IS
Conc 5.0000
ISTD 572.80>419.05 (-) 9.37e4



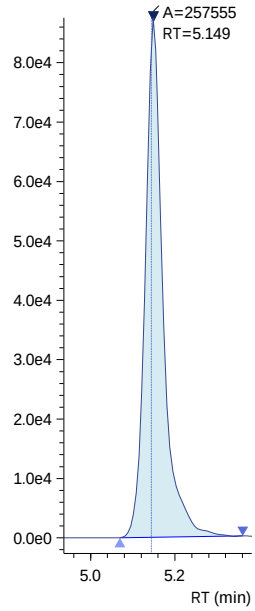
N-EtFOSAA
Conc 5.0325
R#1 90.49 (77.25)
Q 584.20>418.95 (-) 6.65e4



R1 584.20>526.10 (-) 5.87e4

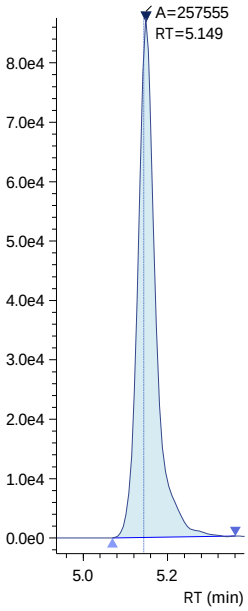


N-EtFOSAA-d5
Conc 5.0682
Q 588.80>419.00 (-) 8.76e4

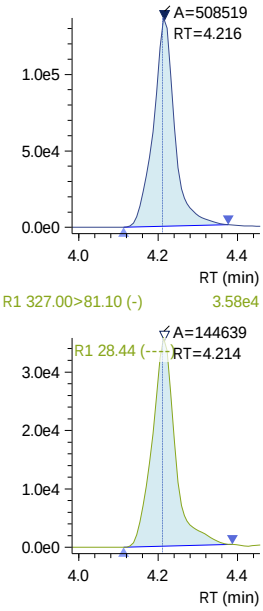


210819_024 (continued)

N-EtFOSAA-d5_IS
Conc 5.0000
ISTD 588.80>419.00 (-) 8.76e4

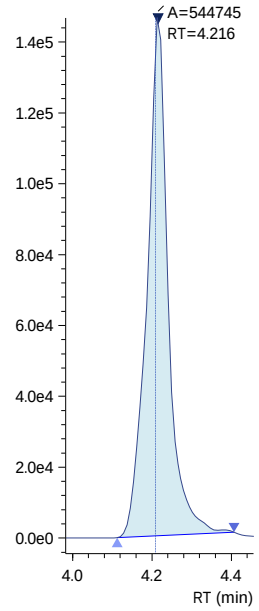


4_2-FTS_1
Conc 4.6595
R#1 28.44 (39.85)
Q 327.00>307.05 (-) 1.37e5

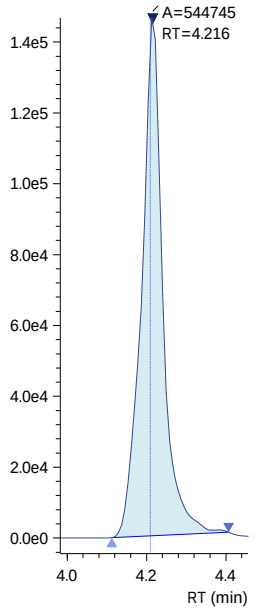


R1 327.00>81.10 (-) 3.58e4

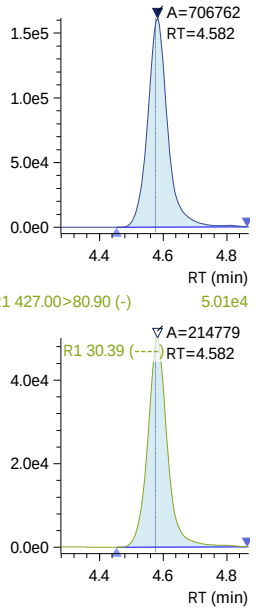
4_2-FTS-13C
Conc 4.8919
Q 328.80>309.05 (-) 1.47e5



4_2-FTS-13C_IS
Conc 5.0000
ISTD 328.80>309.05 (-) 1.47e5

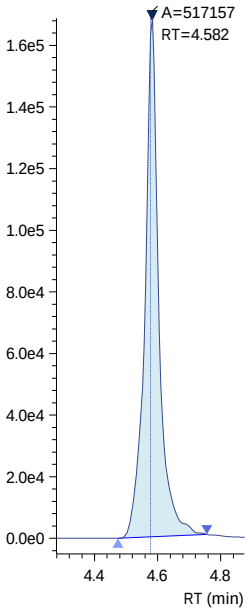


6_2-FTS_1
Conc 4.9130
R#1 30.39 (29.95)
Q 427.00>407.00 (-) 1.62e5

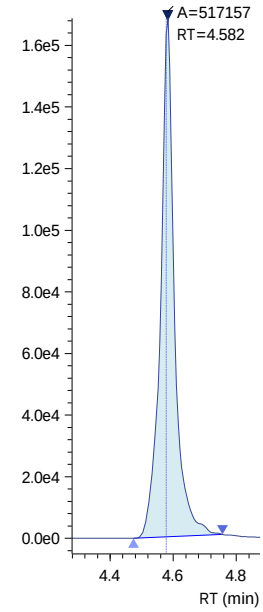


R1 427.00>80.90 (-) 5.01e4

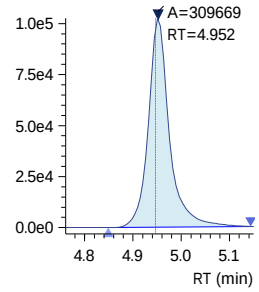
6_2-FTS-13C
Conc 4.9160
Q 428.90>409.00 (-) 1.69e5



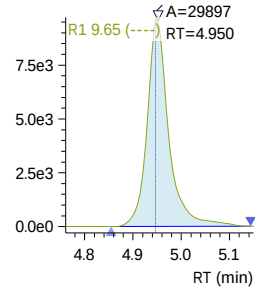
6_2-FTS-13C_IS
Conc 5.0000
ISTD 428.90>409.00 (-) 1.69e5



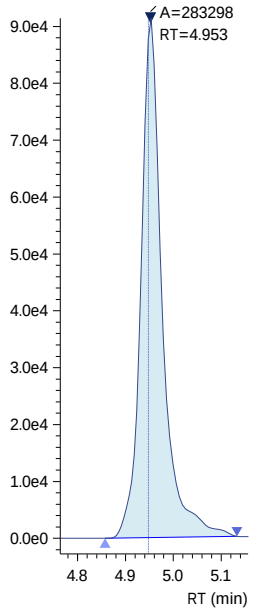
8_2-FTS_1
Conc 4.6996
R#1 9.65 (9.42)
Q 527.10>506.90 (-) 1.03e5



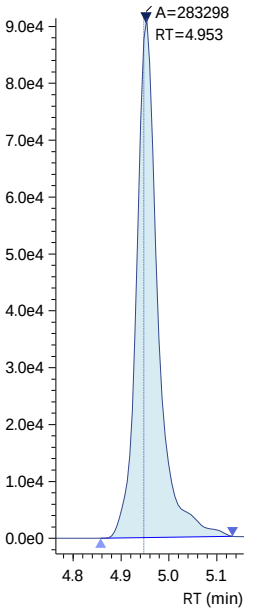
R1 527.20>487.00 (-) 9.73e3



8_2-FTS-13C
Conc 5.0596
Q 528.80>509.00 (-) 9.14e4

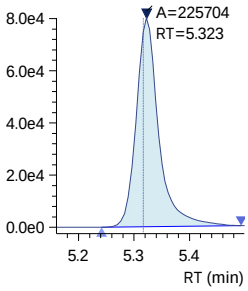


8_2-FTS-13C_IS
Conc 5.0000
ISTD 528.80>509.00 (-) 9.14e4

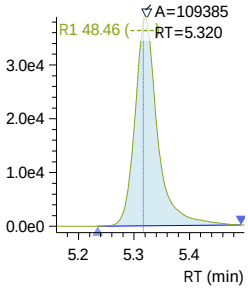


210819_024 (continued)

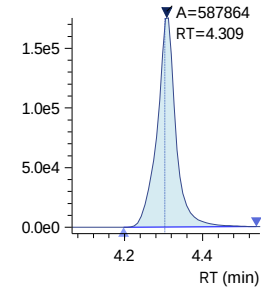
10_2-FtS_1
Conc 4.9514
R#1 48.46 (49.86)
Q 627.00>606.95 (-) 8.02e4



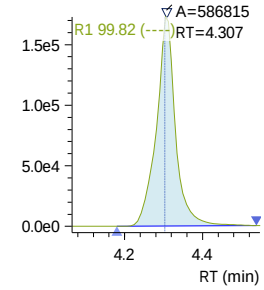
R1 627.00>81.25 (-) 3.89e4



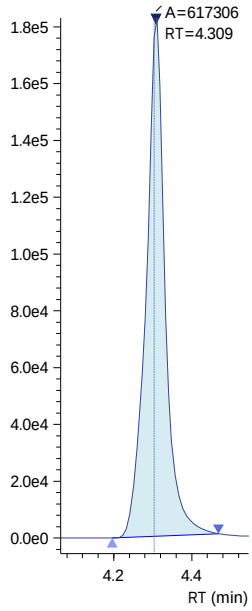
HPFO_DA
Conc 5.2354
R#1 99.82 (101.52)
Q 329.00>169.00 (-) 1.75e5



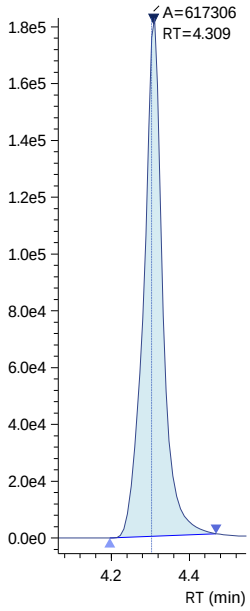
R1 329.00>285.10 (-) 1.73e5



HFPO_DA-13C
Conc 4.9304
Q 332.00>286.80 (-) 1.83e5



HFPO_DA-13C_IS
Conc 5.0000
ISTD 332.00>286.80 (-) 1.83e5

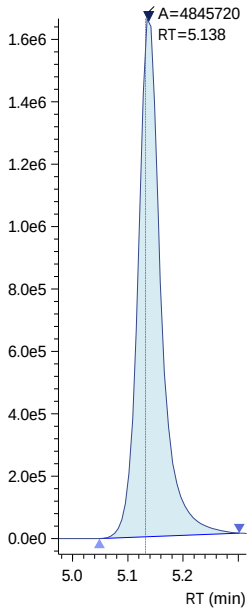


Insight Report
Before Manual Integration
Printed 8/20/2021 09:47:37

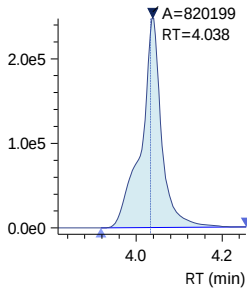
210819_024

Sample ID: PFC ICAL @ 5.0ppb
Date Acquired: 8/19/2021 7:21:11 PM
Acquired by: System Administrator
Data File: 210819_024
Vial: 5 | Inj. Volume: 15.0000uL | Tray: 0

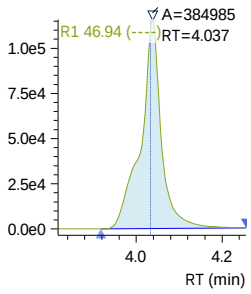
13C7-PFUnDA_IS
Conc 5.0000
ISTD 570.00>525.00 (-) 1.67e6



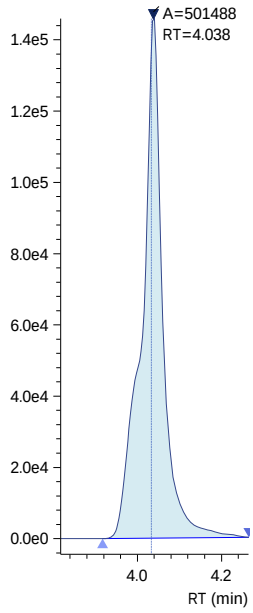
PFBS_1
Conc 4.4767
R#1 46.94 (48.11)
Q 299.00>80.00 (-) 2.47e5



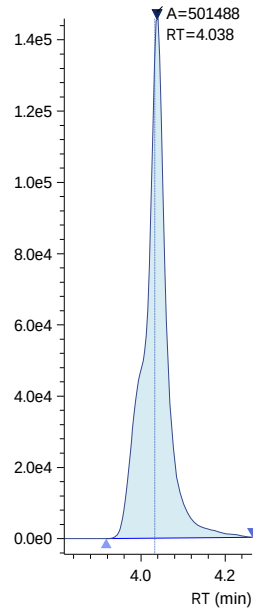
R1 298.80>99.00 (-) 1.16e5



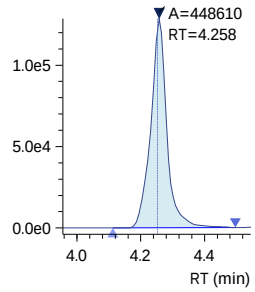
PFBS-13C
Conc 5.0162
Q 301.80>80.00 (-) 1.46e5



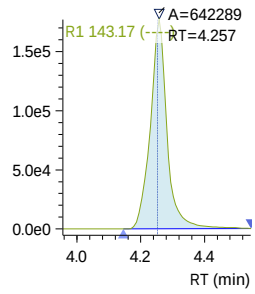
PFBS-13C_IS
Conc 5.0000
ISTD 301.80>80.00 (-) 1.46e5



PFPeS
Conc 4.4228
R#1 143.17 (149.27)
Q 349.00>99.00 (-) 1.29e5

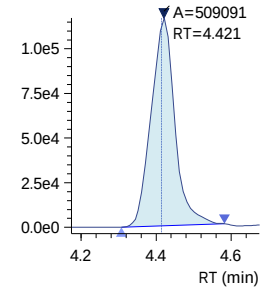


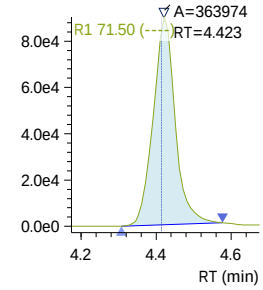
R1 349.00>79.95 (-) 1.77e5

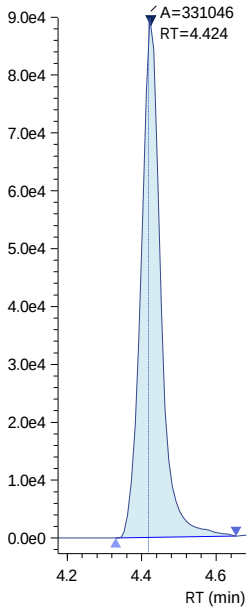


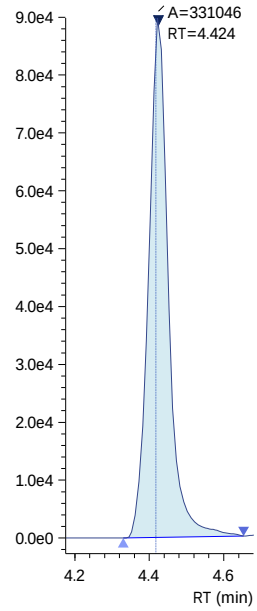
Insight Report
Before Manual Integration
Printed 8/20/2021 09:47:37

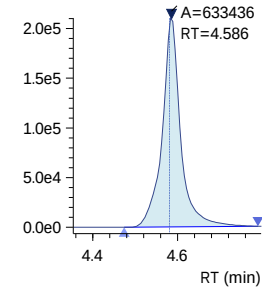
210819_024 (continued)

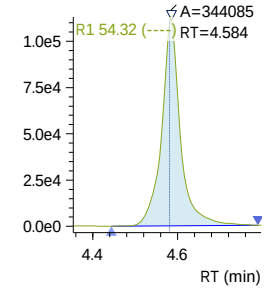
PFHxS_1
Conc 4.1611
R#1 71.50 (83.10)
Q 399.00>80.00 (-) 1.17e5


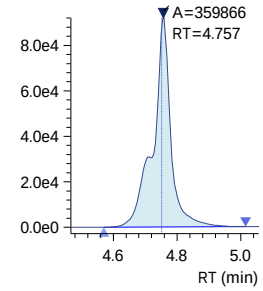
R1 399.00>99.00 (-) 9.05e4


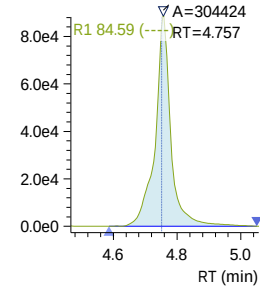
PFHxS-18O
Conc 4.8533
Q 402.70>84.05 (-) 8.99e4


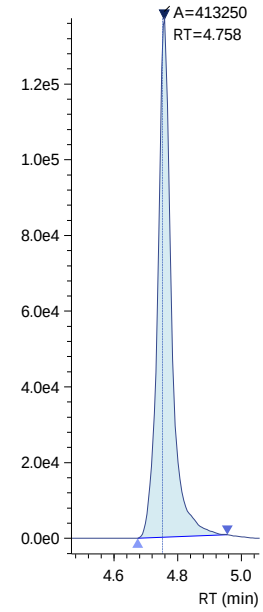
PFHxS-18O_IS
Conc 5.0000
ISTD 402.70>84.05 (-) 8.99e4


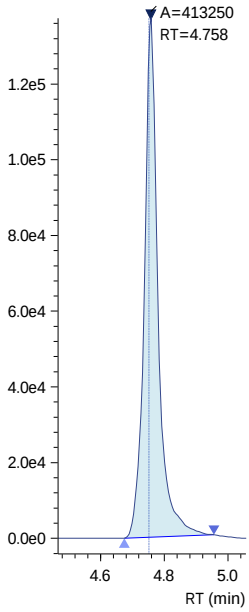
PFHpS_1
Conc 4.5014
R#1 54.32 (58.24)
Q 449.00>80.15 (-) 2.11e5


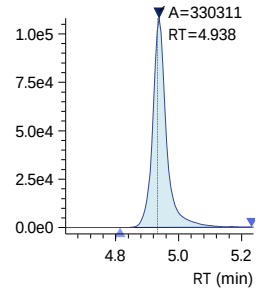
R1 449.00>99.20 (-) 1.13e5


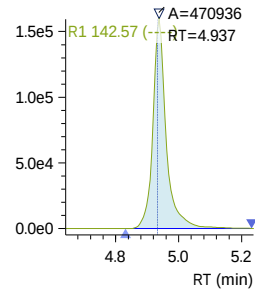
PFOS_1
Conc 4.5068
R#1 84.59 (87.63)
Q 499.00>80.00 (-) 9.21e4


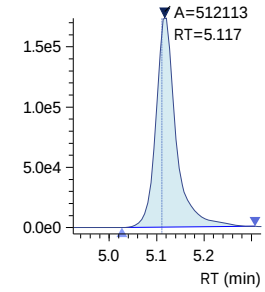
R1 499.00>99.00 (-) 8.82e4


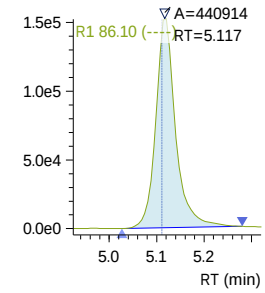
PFOS-13C
Conc 4.8747
Q 502.80>80.05 (-) 1.37e5


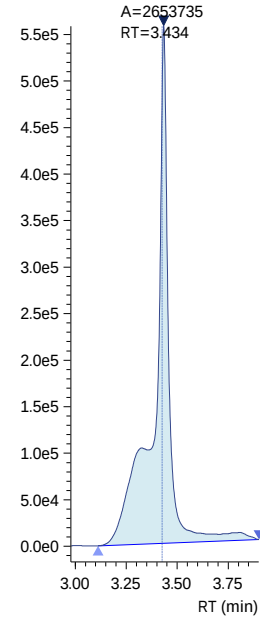
PFOS-13C_IS
Conc 5.0000
ISTD 502.80>80.05 (-) 1.37e5


PFNS
Conc 4.7573
R#1 142.57 (137.56)
Q 549.00>99.00 (-) 1.08e5


R1 549.00>79.95 (-) 1.59e5


PFDS_1
Conc 5.0614
R#1 86.10 (101.78)
Q 599.00>79.90 (-) 1.74e5


R1 599.00>99.10 (-) 1.52e5


PFBA
Conc 5.0845
Q 213.00>169.10 (-) 5.59e5


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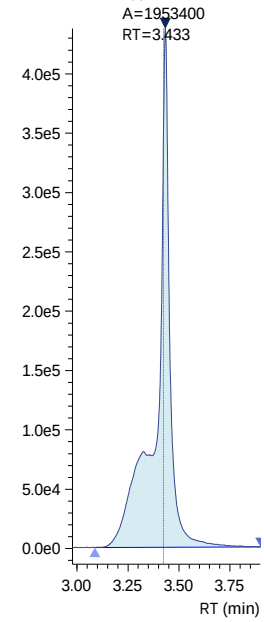
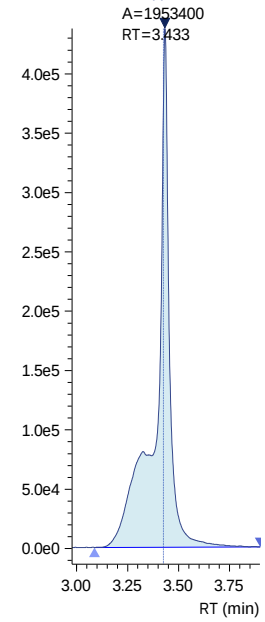
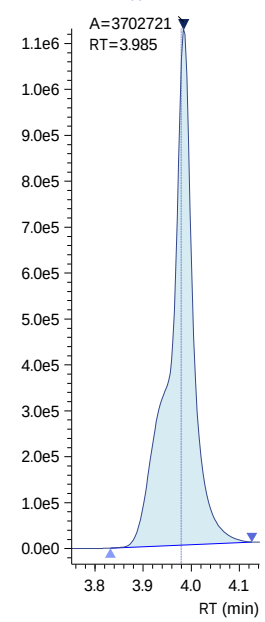
PFBA-13C
Conc 4.9357
Q 216.90>172.15 (-) 4.38e5



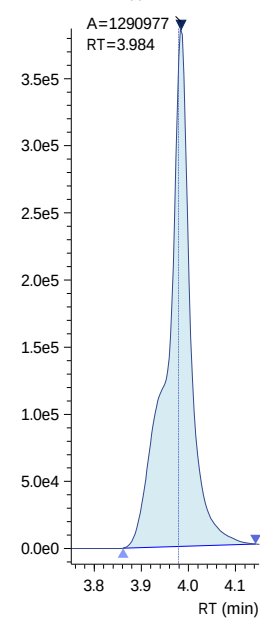
PFBA-13C_IS
Conc 5.0000
ISTD 216.90>172.15 (-) 4.38e5



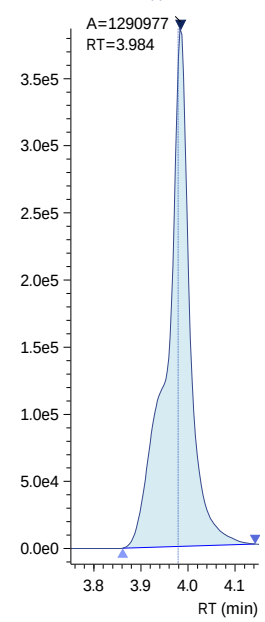
PFPeA
Conc 4.8900
Q 263.05>219.10 (-) 1.13e6



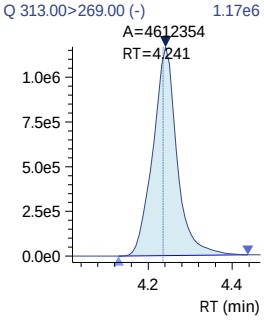
PFPeA-13C
Conc 4.9497
Q 267.90>223.00 (-) 3.87e5



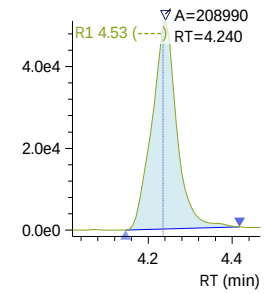
PFPeA-13C_IS
Conc 5.0000
ISTD 267.90>223.00 (-) 3.87e5



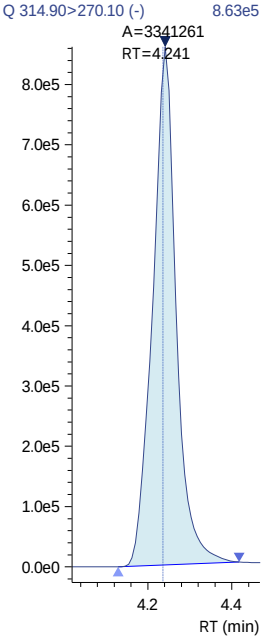
PFHxA
Conc 5.0803
R#1 4.53 (4.21)
Q 313.00>269.00 (-) 1.17e6



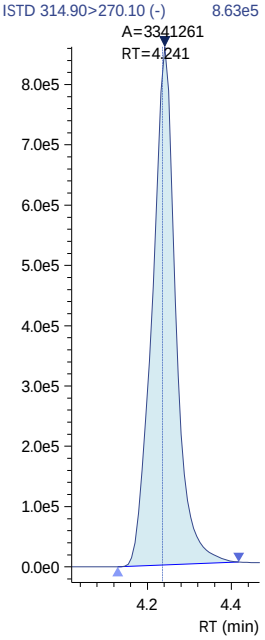
R1 313.00>119.10 (-) 5.12e4



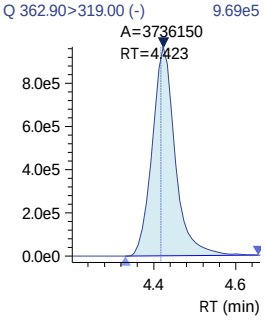
PFHxA-13C
Conc 4.6398
Q 314.90>270.10 (-) 8.63e5



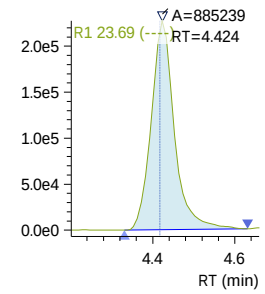
PFHxA-13C_IS
Conc 5.0000
ISTD 314.90>270.10 (-) 8.63e5



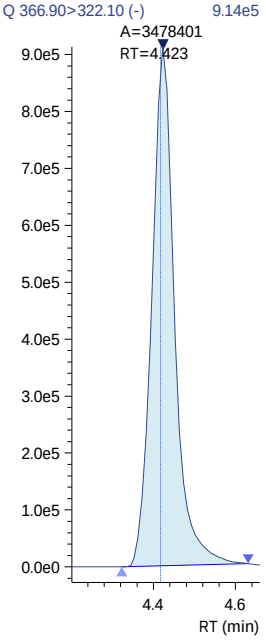
PFHpA
Conc 4.9038
R#1 23.69 (26.69)
Q 362.90>319.00 (-) 9.69e5



R1 362.90>169.00 (-) 2.28e5



PFHpA-13C
Conc 4.7707
Q 366.90>322.10 (-) 9.14e5



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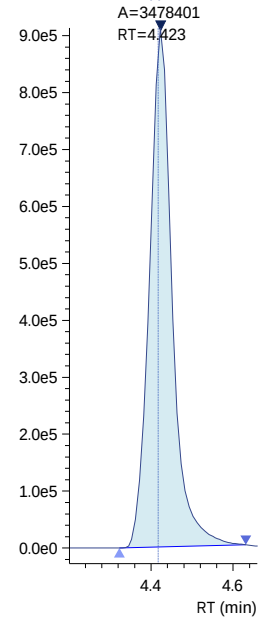
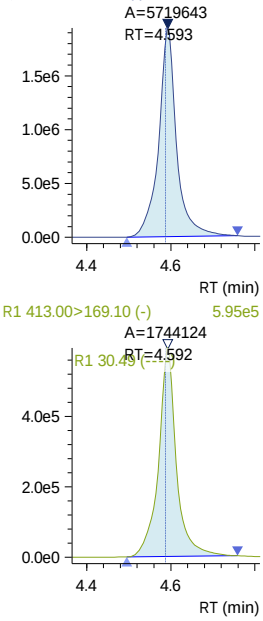
PFHpA-13C_IS
Conc 5.0000
ISTD 366.90>322.10 (-) 9.14e5

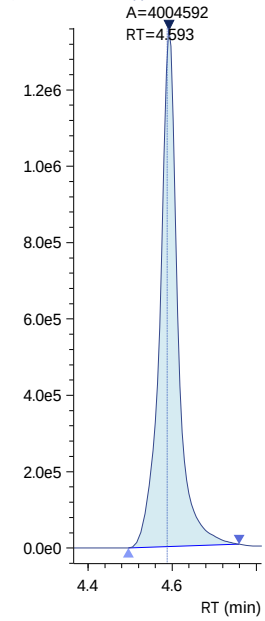


PFOA
Conc 4.9440
R#1 30.49 (31.31)
Q 413.00>369.00 (-) 1.94e6

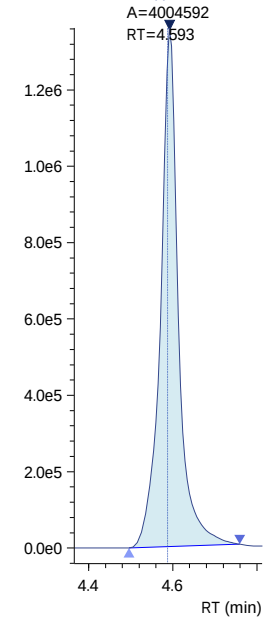


R1 413.00>169.10 (-) 5.95e5

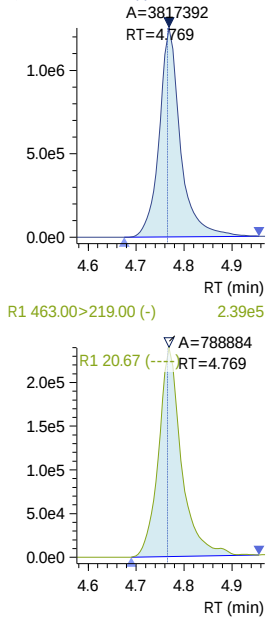
PFOA-13C
Conc 4.9337
Q 416.80>372.05 (-) 1.36e6



PFOA-13C_IS
Conc 5.0000
ISTD 416.80>372.05 (-) 1.36e6

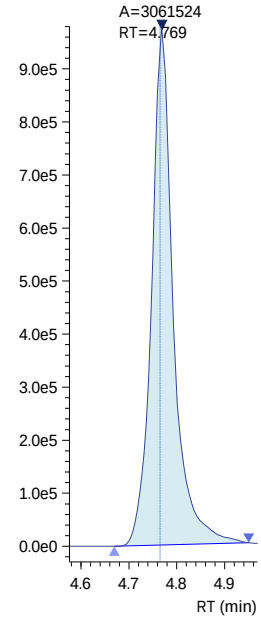


PFNA
Conc 5.0123
R#1 20.67 (20.54)
Q 463.00>418.90 (-) 1.25e6

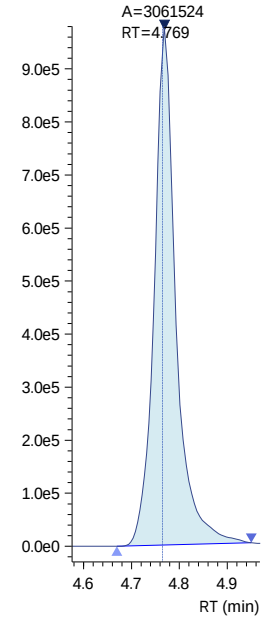


R1 463.00>219.00 (-) 2.39e5

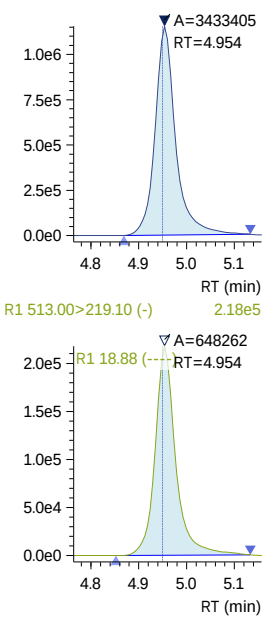
PFNA-13C
Conc 4.9446
Q 467.80>423.00 (-) 9.80e5



PFNA-13C_IS
Conc 5.0000
ISTD 467.80>423.00 (-) 9.80e5

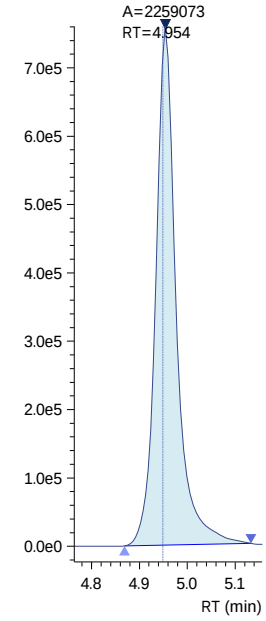


PFDA
Conc 5.0812
R#1 18.88 (20.01)
Q 513.00>468.80 (-) 1.16e6

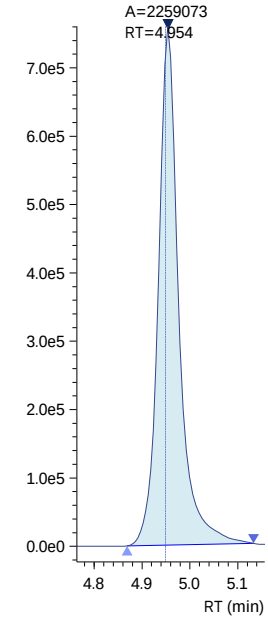


R1 513.00>219.10 (-) 2.18e5

PFDA-13C
Conc 4.9363
Q 514.80>469.95 (-) 7.61e5



PFDA-13C_IS
Conc 5.0000
ISTD 514.80>469.95 (-) 7.61e5



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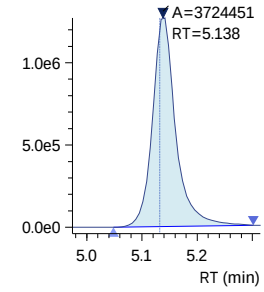
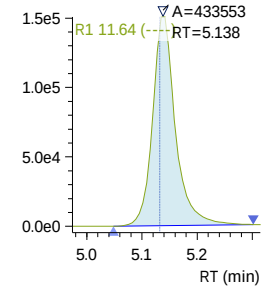
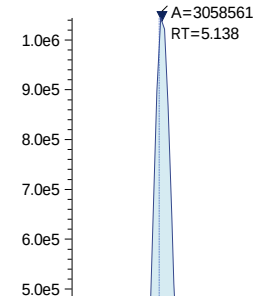
PFUnA
Conc 5.0975
R#1 11.64 (13.39)
Q 563.00>518.90 (-) 1.27e6


R1 563.00>219.00 (-) 1.51e5


PFUnA-13C
Conc 5.0162
Q 564.80>519.95 (-) 1.04e6


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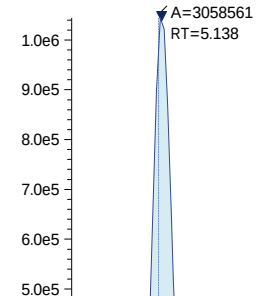
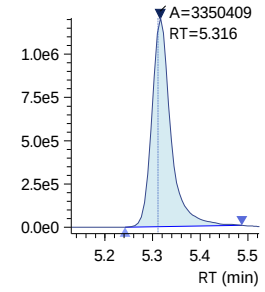
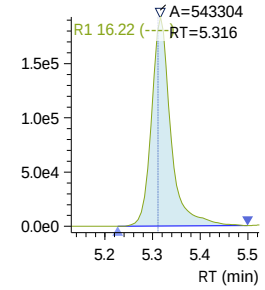
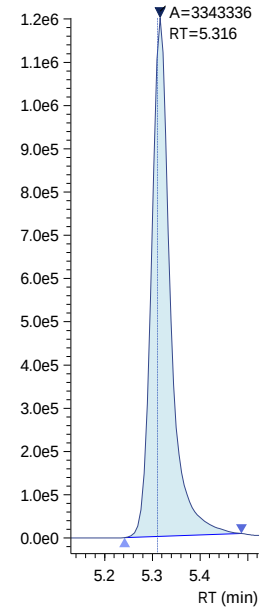
Conc 5.0000
ISTD 564.80>519.95 (-) 1.04e6


PFDoA
Conc 5.1343
R#1 16.22 (16.84)
Q 613.05>569.00 (-) 1.21e6


R1 613.05>169.00 (-) 1.93e5


PFDoA-13C
Conc 5.0056
Q 614.80>569.95 (-) 1.20e6


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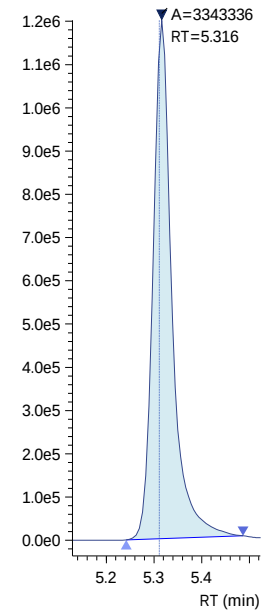
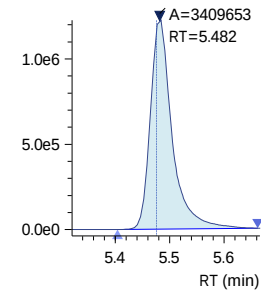
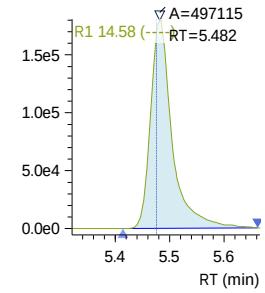
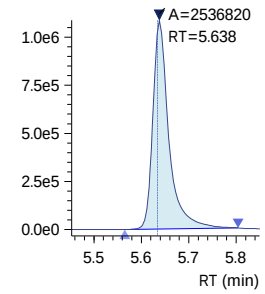
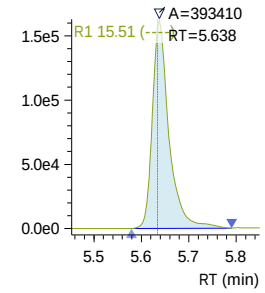
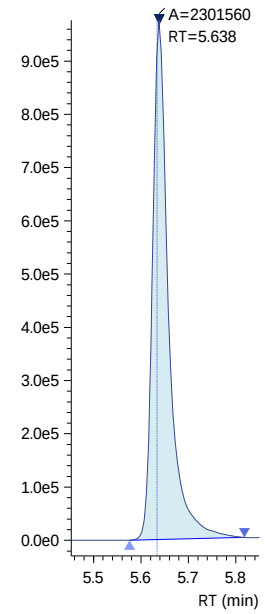
Conc 5.0000
ISTD 614.80>569.95 (-) 1.20e6


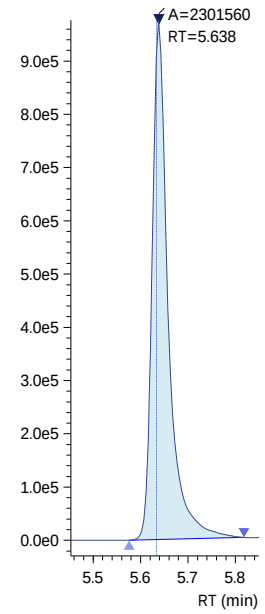
PFTrDA
Conc 4.9897
R#1 14.58 (16.76)
Q 663.00>618.90 (-) 1.23e6


R1 662.90>169.00 (-) 1.81e5


PFTeDA
Conc 4.8185
R#1 15.51 (16.56)
Q 713.00>669.00 (-) 1.09e6


R1 713.00>169.10 (-) 1.63e5


PFTeDA-13C
Conc 5.0919
Q 714.70>669.90 (-) 9.77e5


PFTeDA-13C_IS
Conc 5.0000
ISTD 714.70>669.90 (-) 9.77e5


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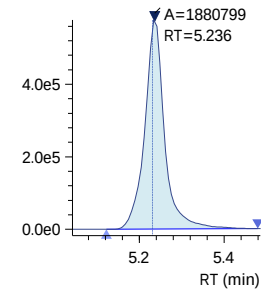
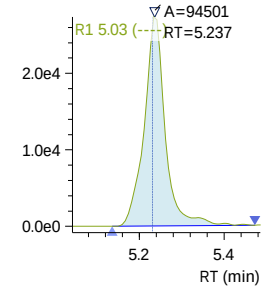
FOSA
Conc 5.0351
R#1 5.03 (4.59)
Q 498.20>78.00 (-) 5.77e5


R1 498.20>64.10 (-) 2.74e4


FOSA-13C
Conc 5.0034
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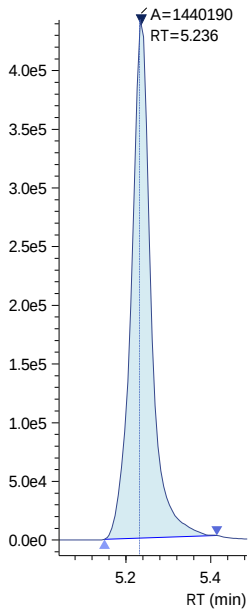
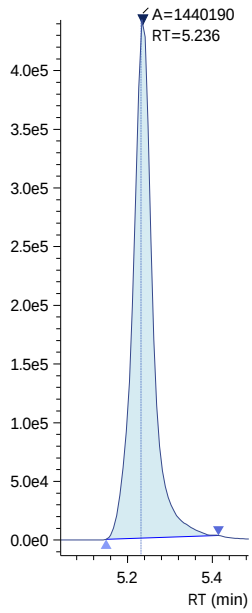
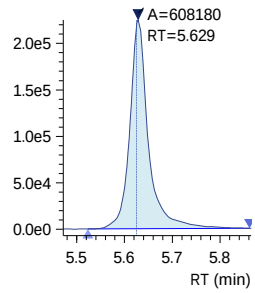
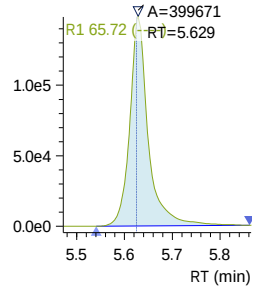
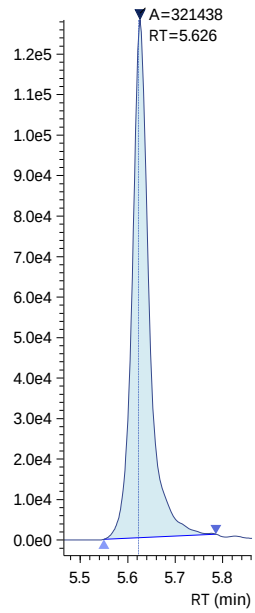
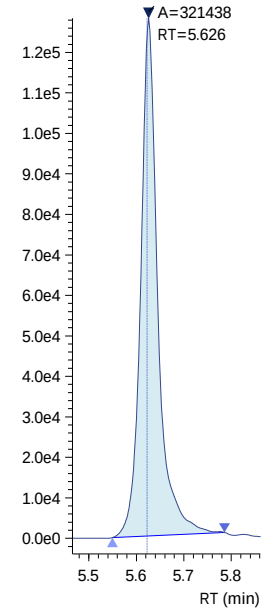


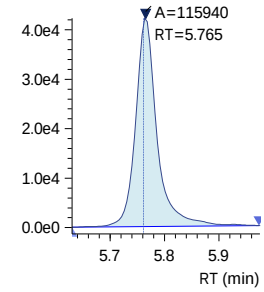
FOSA-13C_IS
Conc 5.0000
ISTD 506.00>78.05 (-) 4.43e5


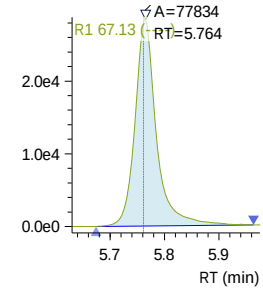
N-MeFOSA
Conc 4.6034
R#1 65.72 (68.73)
Q 512.00>169.10 (-) 2.25e5


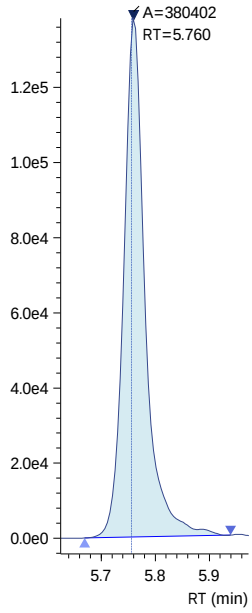
R1 512.00>219.00 (-) 1.48e5


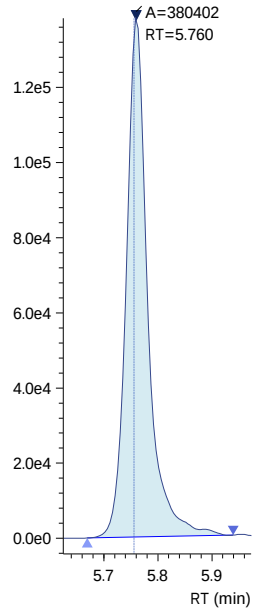
N-MeFOSA-d3
Conc 4.8026
Q 514.90>168.90 (-) 1.28e5


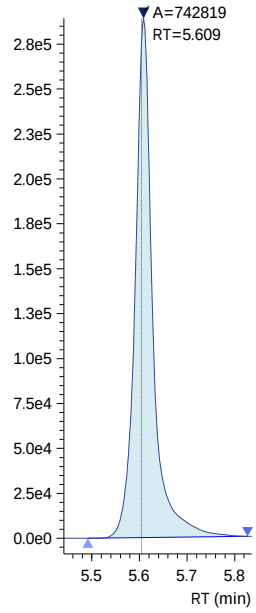
N-MeFOSA-d3_IS
Conc 5.0000
ISTD 514.90>168.90 (-) 1.28e5


N-EtFOSA
Conc 4.8737
R#1 67.13 (62.10)
Q 526.90>169.10 (-) 4.23e4


R1 526.90>219.00 (-) 2.88e4


N-EtFOSA-d9
Conc 5.0022
Q 530.90>169.15 (-) 1.38e5


N-EtFOSA-d9_IS
Conc 5.0000
ISTD 530.90>169.15 (-) 1.38e5


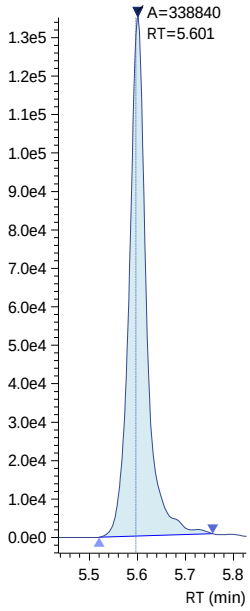
N-MeFOSE
Conc 4.8963
Q 616.00>59.00 (-) 2.89e5


210819_024 (continued)

N-MeFOSE-d7

Conc 5.0626

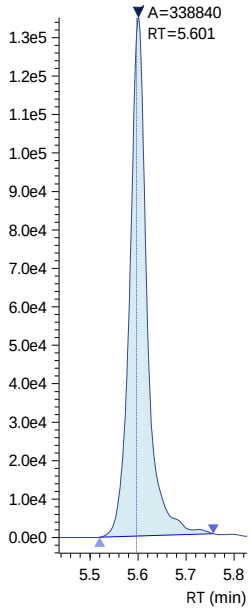
Q 622.70>59.10 (-) 1.35e5



N-MeFOSE-d7_IS

Conc 5.0000

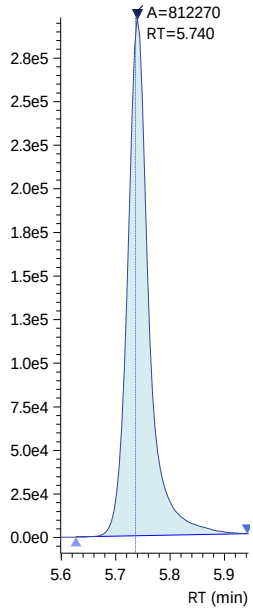
ISTD 622.70>59.10 (-) 1.35e5



N-EtFOSE

Conc 5.2343

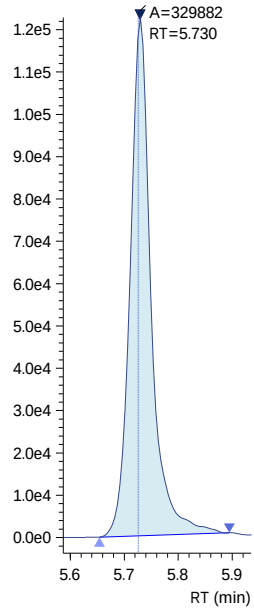
Q 630.00>58.90 (-) 2.98e5



N-EtFOSE-d9

Conc 4.7606

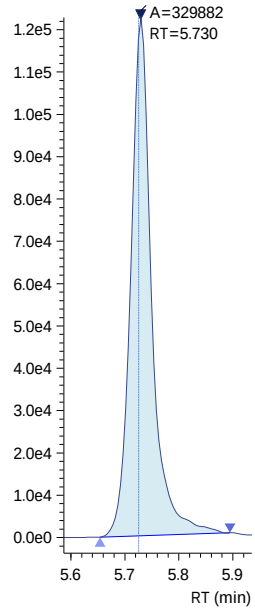
Q 638.70>59.10 (-) 1.23e5



N-EtFOSE-d9_IS

Conc 5.0000

ISTD 638.70>59.10 (-) 1.23e5

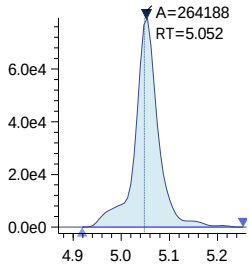


N-MeFOSAA

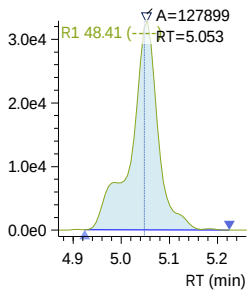
Conc 4.8252

R#1 48.41 (52.81)

Q 570.20>419.00 (-) 7.94e4



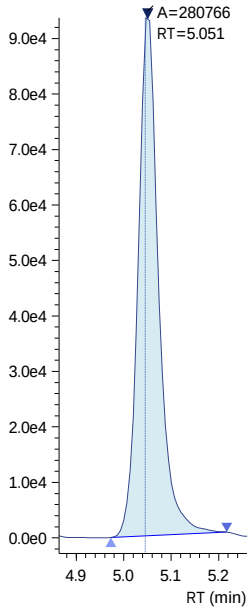
R1 570.20>512.00 (-) 3.29e4



N-MeFOSAA-d3

Conc 5.1341

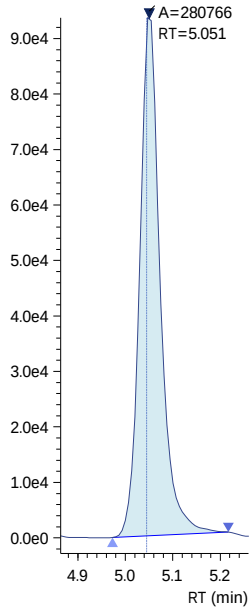
Q 572.80>419.05 (-) 9.37e4



N-MeFOSAA-d3_IS

Conc 5.0000

ISTD 572.80>419.05 (-) 9.37e4

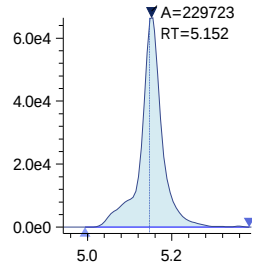


N-EtFOSAA

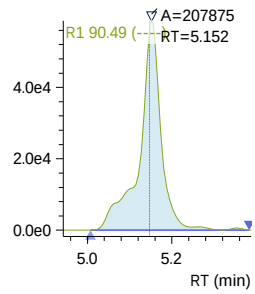
Conc 5.0312

R#1 90.49 (86.68)

Q 584.20>418.95 (-) 6.65e4



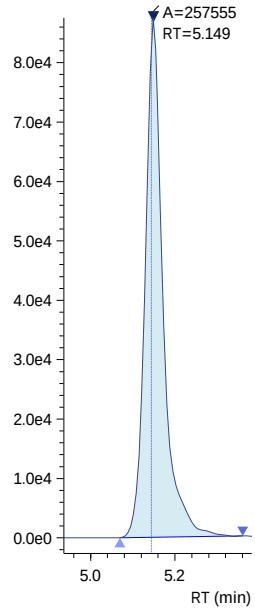
R1 584.20>526.10 (-) 5.87e4



N-EtFOSAA-d5

Conc 5.0379

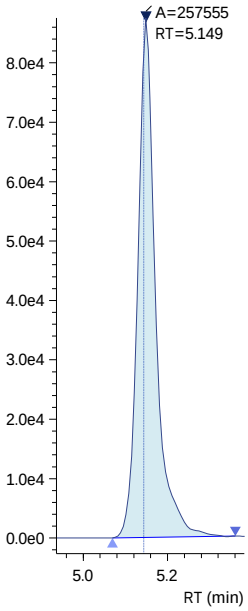
Q 588.80>419.00 (-) 8.76e4



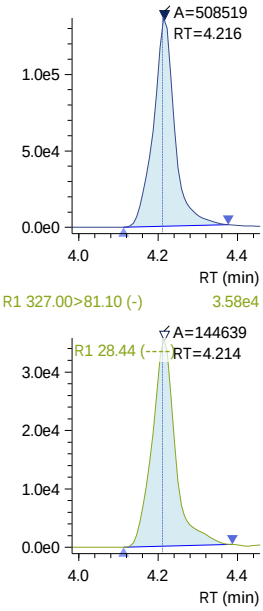
Insight Report
Before Manual Integration
Printed 8/20/2021 09:47:37

210819_024 (continued)

N-EtFOSAA-d5_IS
Conc 5.0000
ISTD 588.80>419.00 (-) 8.76e4

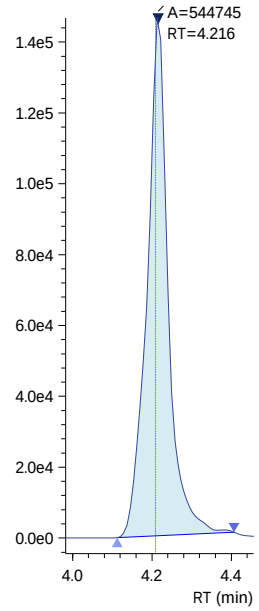


4_2-FTS_1
Conc 4.6595
R#1 28.44 (33.17)
Q 327.00>307.05 (-) 1.37e5

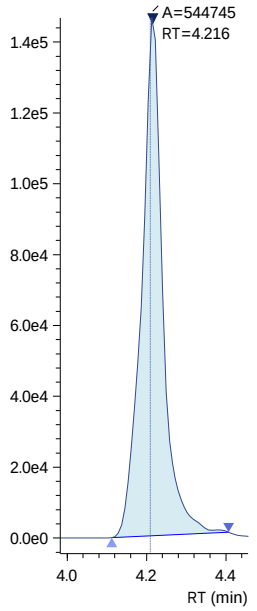


R1 327.00>81.10 (-) 3.58e4

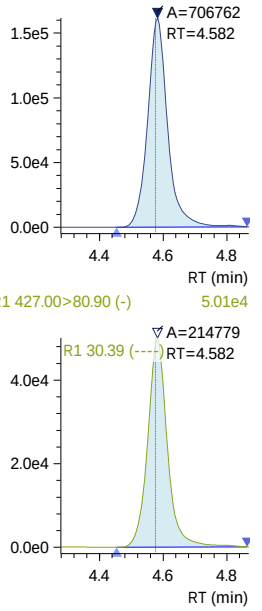
4_2-FTS-13C
Conc 4.8919
Q 328.80>309.05 (-) 1.47e5



4_2-FTS-13C_IS
Conc 5.0000
ISTD 328.80>309.05 (-) 1.47e5

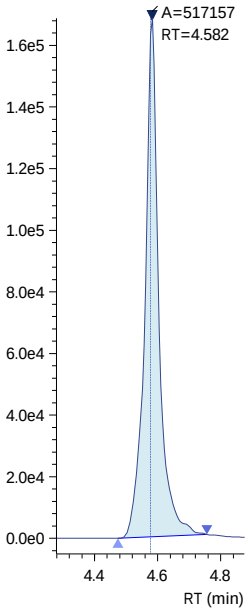


6_2-FTS_1
Conc 4.8328
R#1 30.39 (31.24)
Q 427.00>407.00 (-) 1.62e5

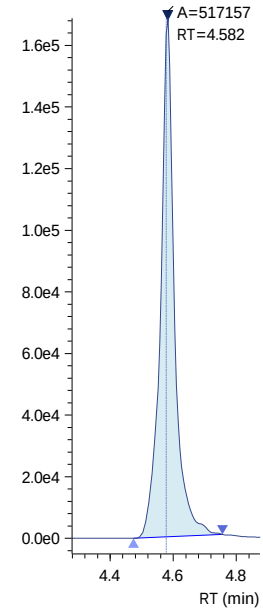


R1 427.00>80.90 (-) 5.01e4

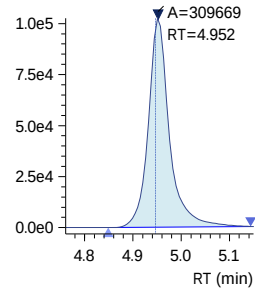
6_2-FTS-13C
Conc 4.9160
Q 428.90>409.00 (-) 1.69e5



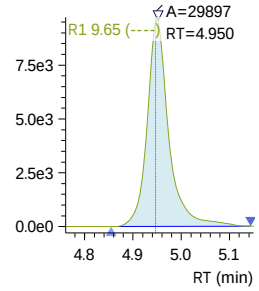
6_2-FTS-13C_IS
Conc 5.0000
ISTD 428.90>409.00 (-) 1.69e5



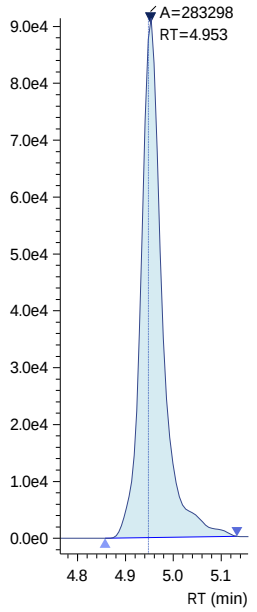
8_2-FTS_1
Conc 4.6996
R#1 9.65 (9.11)
Q 527.10>506.90 (-) 1.03e5



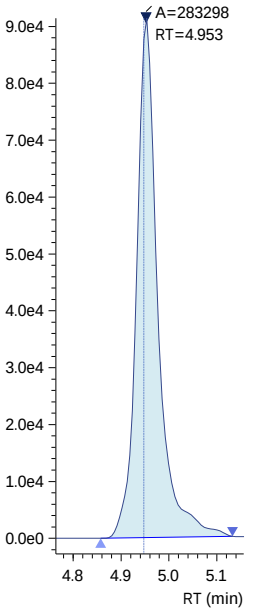
R1 527.20>487.00 (-) 9.73e3



8_2-FTS-13C
Conc 5.0596
Q 528.80>509.00 (-) 9.14e4



8_2-FTS-13C_IS
Conc 5.0000
ISTD 528.80>509.00 (-) 9.14e4

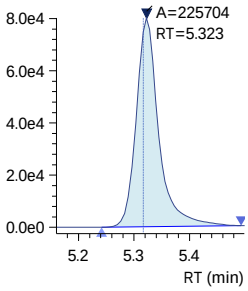


210819_024 (continued)

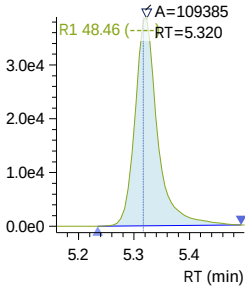
10_2-FtS_1

Conc 4.9196
R#1 48.46 (50.91)

Q 627.00>606.95 (-) 8.02e4



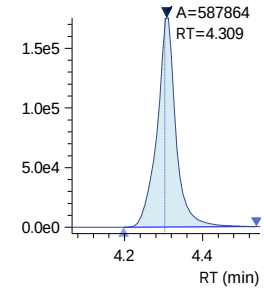
R1 627.00>81.25 (-) 3.89e4



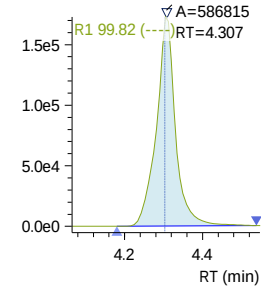
HPFO_DA

Conc 5.1424
R#1 99.82 (109.48)

Q 329.00>169.00 (-) 1.75e5



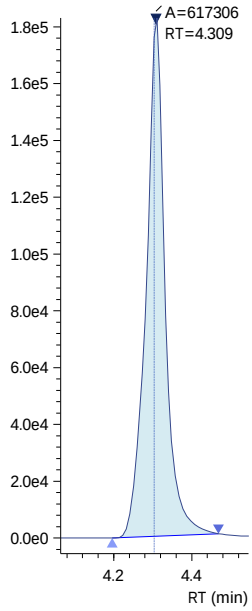
R1 329.00>285.10 (-) 1.73e5



HFPO_DA-13C

Conc 4.9304

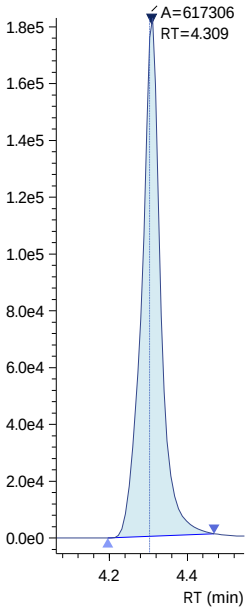
Q 332.00>286.80 (-) 1.83e5



HFPO_DA-13C_IS

Conc 5.0000

ISTD 332.00>286.80 (-) 1.83e5



Insight Report
Retention Time/Signal:Noise Ratio Confirmation
Printed 8/20/2021 11:18:22

210819_025

Sample ID: PFC ICAL @ 10ppb
Date Acquired: 8/19/2021 7:31:40 PM
Acquired by: System Administrator
Data File: 210819_025
Vial: 6 | Inj. Volume: 15.0000uL | Tray: 0

Name	m/z	Ref 1 m/z	Found RT	RT Diff	ISTD RT Diff	S/N	Ref 1 S/N	Flag ID
13C7-PFUnDA_IS	570.00>525.00	----	5.138	0.006	----	10063	----	
PFBS_1	299.00>80.00	298.80>99.00	4.038	0.005	0.000	60259	43554	
PFBS-13C	301.80>80.00	----	4.038	0.005	-1.100	(INF)	----	
PFBS-13C_IS	301.80>80.00	----	4.038	0.005	----	(INF)	----	
PFPeS	349.00>99.00	349.00>79.95	4.257	0.004	0.219	3357	(INF)	
PFHxS_1	399.00>80.00	399.00>99.00	4.421	0.007	-0.002	295893	7489	
PFHxS-18O	402.70>84.05	----	4.423	0.005	-0.715	(INF)	----	
PFHxS-18O_IS	402.70>84.05	----	4.423	0.005	----	(INF)	----	
PFHpS_1	449.00>80.15	449.00>99.20	4.586	0.005	0.163	43671	4937	
PFOS_1	499.00>80.00	499.00>99.00	4.758	0.006	0.000	(INF)	3424	
PFOS-13C	502.80>80.05	----	4.758	0.006	-0.380	(INF)	----	
PFOS-13C_IS	502.80>80.05	----	4.758	0.006	----	(INF)	----	
PFNS	549.00>99.00	549.00>79.95	4.939	0.006	0.181	4878	14658	
PFDS_1	599.00>79.90	599.00>99.10	5.118	0.007	0.360	18120	38909	
PFBA	213.00>169.10	----	3.431	0.005	0.000	10460	----	
PFBA-13C	216.90>172.15	----	3.431	0.006	-1.707	7240	----	
PFBA-13C_IS	216.90>172.15	----	3.431	0.006	----	7240	----	
PFPeA	263.05>219.10	----	3.984	0.005	0.000	7797	----	
PFPeA-13C	267.90>223.00	----	3.984	0.005	-1.154	11867	----	
PFPeA-13C_IS	267.90>223.00	----	3.984	0.005	----	11867	----	
PFHxA	313.00>269.00	313.00>119.10	4.241	0.005	0.000	16206	(INF)	
PFHxA-13C	314.90>270.10	----	4.241	0.005	-0.897	9796	----	
PFHxA-13C_IS	314.90>270.10	----	4.241	0.005	----	9796	----	
PFHpA	362.90>319.00	362.90>169.00	4.423	0.006	0.000	(INF)	14050	
PFHpA-13C	366.90>322.10	----	4.423	0.006	-0.715	14986	----	
PFHpA-13C_IS	366.90>322.10	----	4.423	0.006	----	14986	----	
PFOA	413.00>369.00	413.00>169.10	4.593	0.005	0.000	6829	8361	
PFOA-13C	416.80>372.05	----	4.593	0.005	-0.545	49659	----	
PFOA-13C_IS	416.80>372.05	----	4.593	0.005	----	49659	----	
PFNA	463.00>418.90	463.00>219.00	4.770	0.005	0.000	45626	866491	
PFNA-13C	467.80>423.00	----	4.770	0.005	-0.368	445982	----	
PFNA-13C_IS	467.80>423.00	----	4.770	0.005	----	445982	----	
PFDA	513.00>468.80	513.00>219.10	4.955	0.006	0.000	56289	573728	
PFDA-13C	514.80>469.95	----	4.955	0.006	-0.183	432482	----	
PFDA-13C_IS	514.80>469.95	----	4.955	0.006	----	432482	----	
PFUnA	563.00>518.90	563.00>219.00	5.139	0.006	0.000	9555	38759	
PFUnA-13C	564.80>519.95	----	5.139	0.007	0.001	5969	----	
PFUnA-13C_IS	564.80>519.95	----	5.139	0.007	----	5969	----	
PFDoA	613.05>569.00	613.05>169.00	5.317	0.006	0.000	80511	(INF)	
PFDoA-13C	614.80>569.95	----	5.317	0.006	0.179	59868	----	
PFDoA-13C_IS	614.80>569.95	----	5.317	0.006	----	59868	----	
PFTrDA	663.00>618.90	662.90>169.00	5.482	0.006	-0.158	(INF)	(INF)	
PFTeDA	713.00>669.00	713.00>169.10	5.640	0.006	0.000	4049	2511	
PFTeDA-13C	714.70>669.90	----	5.640	0.006	0.502	45887	----	
PFTeDA-13C_IS	714.70>669.90	----	5.640	0.006	----	42521	----	
FOSA	498.20>78.00	498.20>64.10	5.237	0.006	0.001	(INF)	(INF)	
FOSA-13C	506.00>78.05	----	5.236	0.005	0.098	704	----	
FOSA-13C_IS	506.00>78.05	----	5.236	0.005	----	704	----	
N-MeFOSA	512.00>169.10	512.00>219.00	5.630	0.005	0.003	(INF)	11492	
N-MeFOSA-d3	514.90>168.90	----	5.627	0.005	0.489	918	----	
N-MeFOSA-d3_IS	514.90>168.90	----	5.627	0.005	----	918	----	

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SN - Software-calculated S/N ratio outside criteria due to non-target peaks or drift in noise calculation window. Analyst review of noise levels (excluding non-target peaks) in chromatogram indicates S/N ratio meets criteria.

210819_025 (continued)

(Table continued from previous page)

Name	m/z	Ref 1 m/z	Found RT	RT Diff	ISTD RT Diff	S/N	Ref 1 S/N	Flag ID
N-EtFOSA	526.90>169.10	526.90>219.00	5.767	0.006	0.006	(INF)	(INF)	
N-EtFOSA-d9	530.90>169.15	----	5.761	0.005	0.623	(INF)	----	
N-EtFOSA-d9_IS	530.90>169.15	----	5.761	0.005	----	(INF)	----	
N-MeFOSE	616.00>59.00	----	5.610	0.005	0.008	(INF)	----	
N-MeFOSE-d7	622.70>59.10	----	5.602	0.005	0.464	2069	----	
N-MeFOSE-d7_IS	622.70>59.10	----	5.602	0.005	----	2069	----	
N-EtFOSE	630.00>58.90	----	5.741	0.005	0.010	(INF)	----	
N-EtFOSE-d9	638.70>59.10	----	5.731	0.005	0.593	(INF)	----	
N-EtFOSE-d9_IS	638.70>59.10	----	5.731	0.005	----	(INF)	----	
N-MeFOSAA	570.20>419.00	570.20>512.00	5.052	0.004	0.000	219902	1164	
N-MeFOSAA-d3	572.80>419.05	----	5.052	0.007	-0.086	918	----	
N-MeFOSAA-d3_IS	572.80>419.05	----	5.052	0.007	----	918	----	
N-EtFOSAA	584.20>418.95	584.20>526.10	5.152	0.004	0.003	2688	661	
N-EtFOSAA-d5	588.80>419.00	----	5.149	0.005	0.011	(INF)	----	
N-EtFOSAA-d5_IS	588.80>419.00	----	5.149	0.005	----	(INF)	----	
4_2-FTS_1	327.00>307.05	327.00>81.10	4.215	0.005	0.000	1234338	(INF)	
4_2-FTS-13C	328.80>309.05	----	4.215	0.005	-0.923	(INF)	----	
4_2-FTS-13C_IS	328.80>309.05	----	4.215	0.005	----	(INF)	----	
6_2-FTS_1	427.00>407.00	427.00>80.90	4.581	0.005	-0.001	(INF)	1999	
6_2-FTS-13C	428.90>409.00	----	4.582	0.004	-0.556	(INF)	----	
6_2-FTS-13C_IS	428.90>409.00	----	4.582	0.004	----	(INF)	----	
8_2-FTS_1	527.10>506.90	527.20>487.00	4.953	0.006	-0.001	52980	(INF)	
8_2-FTS-13C	528.80>509.00	----	4.954	0.007	-0.184	(INF)	----	
8_2-FTS-13C_IS	528.80>509.00	----	4.954	0.007	----	(INF)	----	
10_2-FtS_1	627.00>606.95	627.00>81.25	5.324	0.007	0.370	287096	22710	
HPFO_DA	329.00>169.00	329.00>285.10	4.308	0.005	0.000	23384	18048	
HFPO_DA-13C	332.00>286.80	----	4.308	0.004	-0.830	34510	----	
HFPO_DA-13C_IS	332.00>286.80	----	4.308	0.004	----	34510	----	

SN - Software-calculated S/N ratio outside criteria due to non-target peaks or drift in noise calculation window. Analyst review of noise levels (excluding non-target peaks) in chromatogram indicates S/N ratio meets criteria.

Insight Report
Ion Ratio Confirmation
Printed 8/20/2021 11:19:20

210819_025

Sample ID: PFC ICAL @ 10ppb
Date Acquired: 8/19/2021 7:31:40 PM
Acquired by: System Administrator
Data File: 210819_025
Vial: 6 | Inj. Volume: 15.0000uL | Tray: 0

Name	m/z	Ref 1 m/z	Area	Ref 1 Measured	Ref 1 Actual Ratio	Ref 1 Set Ratio	Comment 1	Flag ID
13C7-PFUnDA_IS	570.00>525.00	----	4594718	----	----	----		
PFBS_1	299.00>80.00	298.80>99.00	1550921	724630	46.72	47.76	23.88-71.64	
PFBS-13C	301.80>80.00	----	481972	----	----	----	0-0	
PFBS-13C_IS	301.80>80.00	----	481972	----	----	----	0-0	
PFPeS	349.00>99.00	349.00>79.95	807761	1201430	148.74	136.08	68.04 -204.13	
PFHxS_1	399.00>80.00	399.00>99.00	958846	712979	74.36	71.26	35.63 -106.89	
PFHxS-18O	402.70>84.05	----	305784	----	----	----	0-0	
PFHxS-18O_IS	402.70>84.05	----	305784	----	----	----	0-0	
PFHpS_1	449.00>80.15	449.00>99.20	1223262	663256	54.22	53.84	26.92-80.76	
PFOS_1	499.00>80.00	499.00>99.00	685375	589232	85.97	86.72	43.36 -130.08	
PFOS-13C	502.80>80.05	----	409776	----	----	----	0-0	
PFOS-13C_IS	502.80>80.05	----	409776	----	----	----	0-0	
PFNS	549.00>99.00	549.00>79.95	637038	872872	137.02	129.18	64.59 -193.78	
PFDS_1	599.00>79.90	599.00>99.10	960931	838888	87.30	90.77	45.38 -136.15	
PFBA	213.00>169.10	----	4637101	----	----	----		
PFBA-13C	216.90>172.15	----	1873315	----	----	----		
PFBA-13C_IS	216.90>172.15	----	1873315	----	----	----		
PFPeA	263.05>219.10	----	7066849	----	----	----		
PFPeA-13C	267.90>223.00	----	1223069	----	----	----	0-0	
PFPeA-13C_IS	267.90>223.00	----	1223069	----	----	----	0-0	
PFHxA	313.00>269.00	313.00>119.10	8716028	375640	4.31	4.17	2.08-6.25	
PFHxA-13C	314.90>270.10	----	3228793	----	----	----	0-0	
PFHxA-13C_IS	314.90>270.10	----	3228793	----	----	----	0-0	
PFHpA	362.90>319.00	362.90>169.00	7224707	1767388	24.46	26.04	13.02-39.07	
PFHpA-13C	366.90>322.10	----	3257438	----	----	----	0-0	
PFHpA-13C_IS	366.90>322.10	----	3257438	----	----	----	0-0	
PFOA	413.00>369.00	413.00>169.10	10824626	3268369	30.19	30.35	15.18-45.53	
PFOA-13C	416.80>372.05	----	3789604	----	----	----	0-0	
PFOA-13C_IS	416.80>372.05	----	3789604	----	----	----	0-0	
PFNA	463.00>418.90	463.00>219.00	6882652	1498627	21.77	22.35	11.18-33.53	
PFNA-13C	467.80>423.00	----	2845070	----	----	----	0-0	
PFNA-13C_IS	467.80>423.00	----	2845070	----	----	----	0-0	
PFDA	513.00>468.80	513.00>219.10	6299718	1168253	18.55	18.73	9.36-28.09	
PFDA-13C	514.80>469.95	----	2172638	----	----	----	0-0	
PFDA-13C_IS	514.80>469.95	----	2172638	----	----	----	0-0	
PFUnA	563.00>518.90	563.00>219.00	7045699	820971	11.65	11.60	5.8-17.4	
PFUnA-13C	564.80>519.95	----	2889039	----	----	----	0-0	
PFUnA-13C_IS	564.80>519.95	----	2889039	----	----	----	0-0	
PFDoA	613.05>569.00	613.05>169.00	6205416	983843	15.86	15.11	7.55-22.66	
PFDoA-13C	614.80>569.95	----	3208696	----	----	----	0-0	
PFDoA-13C_IS	614.80>569.95	----	3208696	----	----	----	0-0	
PFTrDA	663.00>618.90	662.90>169.00	6474242	904595	13.97	14.19	7.09-21.28	
PFTeDA	713.00>669.00	713.00>169.10	4662693	752501	16.14	14.98	7.49-22.46	
PFTeDA-13C	714.70>669.90	----	2159011	----	----	----	0-0	
PFTeDA-13C_IS	714.70>669.90	----	2159011	----	----	----	0-0	
FOSA	498.20>78.00	498.20>64.10	3612845	179399	4.97	4.89	2.44-7.33	

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Comment 1 field specifies acceptance range for Ref 1 ratio.
IRr - Ion ratio outside criteria. Exceedances for results above the MDL to be "K" flagged in the analytical report.

Insight Report
Ion Ratio Confirmation
Printed 8/20/2021 11:19:20

210819_025 (continued)

(Table continued from previous page)

Name	m/z	Ref 1 m/z	Area	Ref 1 Measured	Ref 1 Actual Ratio	Ref 1 Set Ratio	Comment 1	Flag ID
FOSA-13C	506.00>78.05	----	1418393	----	----	----	0-0	
FOSA-13C_IS	506.00>78.05	----	1418393	----	----	----	0-0	
N-MeFOSA	512.00>169.10	512.00>219.00	1159747	754096	65.02	62.72	31.36-94.08	
N-MeFOSA-d3	514.90>168.90	----	313584	----	----	----	0-0	
N-MeFOSA-d3_IS	514.90>168.90	----	313584	----	----	----	0-0	
N-EtFOSA	526.90>169.10	526.90>219.00	221916	151797	68.40	63.35	31.68-95.03	
N-EtFOSA-d9	530.90>169.15	----	353055	----	----	----	0-0	
N-EtFOSA-d9_IS	530.90>169.15	----	353055	----	----	----	0-0	
N-MeFOSE	616.00>59.00	----	1398569	----	----	----		
N-MeFOSE-d7	622.70>59.10	----	320256	----	----	----		
N-MeFOSE-d7_IS	622.70>59.10	----	320256	----	----	----		
N-EtFOSE	630.00>58.90	----	1535219	----	----	----		
N-EtFOSE-d9	638.70>59.10	----	326874	----	----	----	0-0	
N-EtFOSE-d9_IS	638.70>59.10	----	326874	----	----	----	0-0	
N-MeFOSAA	570.20>419.00	570.20>512.00	506506	212635	41.98	35.26	17.63-52.88	
N-MeFOSAA-d3	572.80>419.05	----	262902	----	----	----	0-0	
N-MeFOSAA-d3_IS	572.80>419.05	----	262902	----	----	----	0-0	
N-EtFOSAA	584.20>418.95	584.20>526.10	441456	356263	80.70	77.25	38.62 -115.87	
N-EtFOSAA-d5	588.80>419.00	----	247056	----	----	----	0-0	
N-EtFOSAA-d5_IS	588.80>419.00	----	247056	----	----	----	0-0	
4_2-FTS_1	327.00>307.05	327.00>81.10	924460	247915	26.82	39.85	19.92-59.77	
4_2-FTS-13C	328.80>309.05	----	534651	----	----	----	0-0	
4_2-FTS-13C_IS	328.80>309.05	----	534651	----	----	----	0-0	
6_2-FTS_1	427.00>407.00	427.00>80.90	1262167	383278	30.37	29.95	14.97-44.92	
6_2-FTS-13C	428.90>409.00	----	507420	----	----	----	0-0	
6_2-FTS-13C_IS	428.90>409.00	----	507420	----	----	----	0-0	
8_2-FTS_1	527.10>506.90	527.20>487.00	556341	54312	9.76	9.42	4.71-14.13	
8_2-FTS-13C	528.80>509.00	----	271901	----	----	----	0-0	
8_2-FTS-13C_IS	528.80>509.00	----	271901	----	----	----	0-0	
10_2-FtS_1	627.00>606.95	627.00>81.25	415899	201019	48.33	49.86	24.93-74.78	
HPFO_DA	329.00>169.00	329.00>285.10	1084565	1110909	102.43	101.52	50.76 -152.28	
HFPO_DA-13C	332.00>286.80	----	587719	----	----	----		
HFPO_DA-13C_IS	332.00>286.80	----	587719	----	----	----		

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Comment 1 field specifies acceptance range for Ref 1 ratio.
IRr - Ion ratio outside criteria. Exceedances for results above the MDL to be "K" flagged in the analytical report.

Insight Report
Quantitation/Integration
Printed 8/20/2021 11:13:44

210819_025

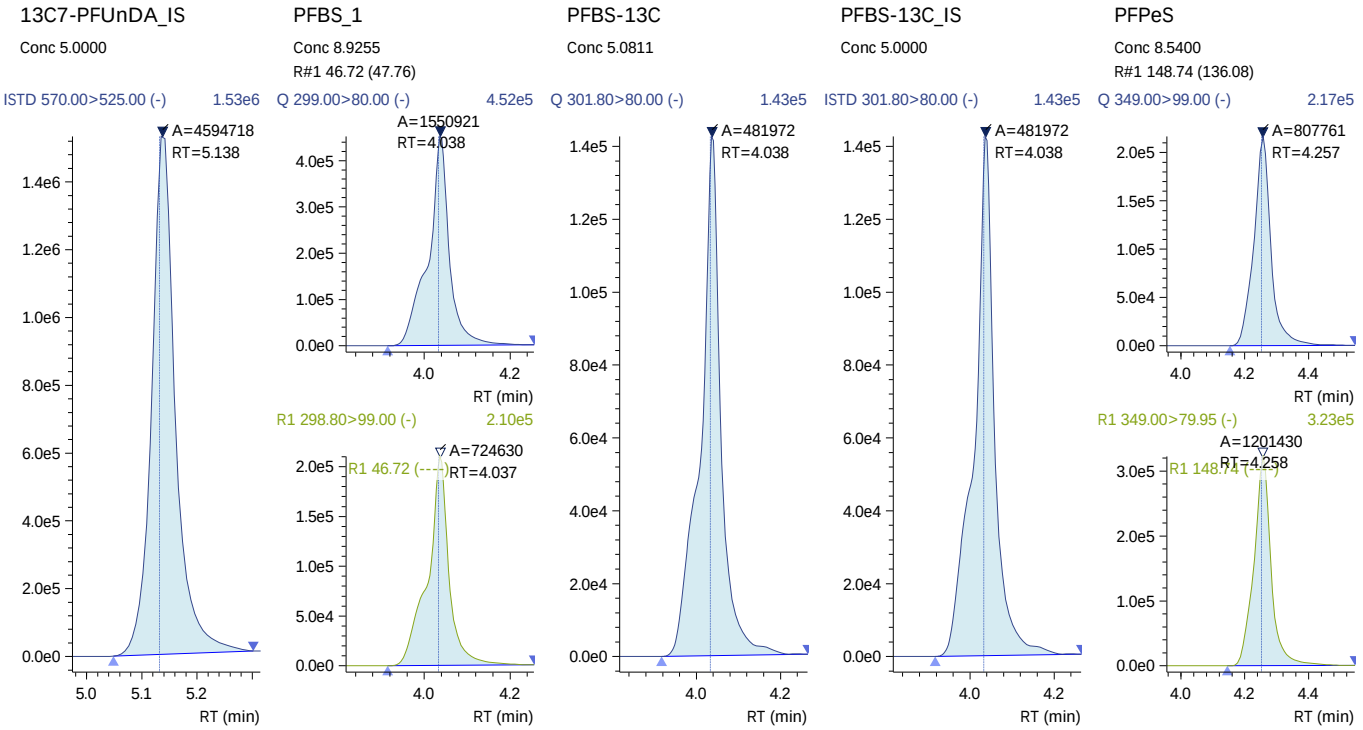
Sample ID: PFC ICAL @ 10ppb
Date Acquired: 8/19/2021 7:31:40 PM
Acquired by: System Administrator
Data File: 210819_025
Vial: 6 | Inj. Volume: 15.0000uL | Tray: 0

Name	Mode ID	Found RT	Area	ISTD Area	ISTD Name	Std. Conc.	Conc.	Unit
13C7-PFUnDA_IS	Auto	5.138	4594718	4594718	----	5.0000	5.0000	ng/mL
PFBS_1	Auto	4.038	1550921	481972	PFBS-13C_IS	8.8737	8.9255	ng/mL
PFBS-13C	Auto	4.038	481972	4594718	13C7-PFUnDA_IS	5.0000	5.0811	ng/mL
PFBS-13C_IS	Auto	4.038	481972	481972	----	5.0000	5.0000	ng/mL
PFPeS	Auto	4.257	807761	481972	PFBS-13C_IS	9.4092	8.5400	ng/mL
PFHxS_1	Auto	4.421	958846	305784	PFHxS-18O_IS	9.1308	9.4160	ng/mL
PFHxS-18O	Auto	4.423	305784	4594718	13C7-PFUnDA_IS	5.0000	4.7278	ng/mL
PFHxS-18O_IS	Auto	4.423	305784	305784	----	5.0000	5.0000	ng/mL
PFHpS_1	Auto	4.586	1223262	305784	PFHxS-18O_IS	9.5344	9.5315	ng/mL
PFOS_1	Auto	4.758	685375	409776	PFOS-13C_IS	9.2923	8.8913	ng/mL
PFOS-13C	Auto	4.758	409776	4594718	13C7-PFUnDA_IS	5.0000	5.0978	ng/mL
PFOS-13C_IS	Auto	4.758	409776	409776	----	5.0000	5.0000	ng/mL
PFNS	Auto	4.939	637038	409776	PFOS-13C_IS	9.6158	9.1382	ng/mL
PFDS_1	Auto	5.118	960931	409776	PFOS-13C_IS	9.6467	9.5974	ng/mL
PFBA	M	3.431	4637101	1873315	PFBA-13C_IS	10.0000	9.8974	ng/mL
PFBA-13C	Auto	3.431	1873315	4594718	13C7-PFUnDA_IS	5.0000	4.9919	ng/mL
PFBA-13C_IS	Auto	3.431	1873315	1873315	----	5.0000	5.0000	ng/mL
PFPeA	Auto	3.984	7066849	1223069	PFPeA-13C_IS	10.0000	9.0850	ng/mL
PFPeA-13C	Auto	3.984	1223069	4594718	13C7-PFUnDA_IS	5.0000	4.9455	ng/mL
PFPeA-13C_IS	Auto	3.984	1223069	1223069	----	5.0000	5.0000	ng/mL
PFHxA	Auto	4.241	8716028	3228793	PFHxA-13C_IS	10.0000	9.9630	ng/mL
PFHxA-13C	Auto	4.241	3228793	4594718	13C7-PFUnDA_IS	5.0000	4.7417	ng/mL
PFHxA-13C_IS	Auto	4.241	3228793	3228793	----	5.0000	5.0000	ng/mL
PFHpA	Auto	4.423	7224707	3257438	PFHpA-13C_IS	10.0000	10.1994	ng/mL
PFHpA-13C	Auto	4.423	3257438	4594718	13C7-PFUnDA_IS	5.0000	4.7117	ng/mL
PFHpA-13C_IS	Auto	4.423	3257438	3257438	----	5.0000	5.0000	ng/mL
PFOA	Auto	4.593	10824626	3789604	PFOA-13C_IS	10.0000	9.2936	ng/mL
PFOA-13C	Auto	4.593	3789604	4594718	13C7-PFUnDA_IS	5.0000	4.9239	ng/mL
PFOA-13C_IS	Auto	4.593	3789604	3789604	----	5.0000	5.0000	ng/mL
PFNA	Auto	4.770	6882652	2845070	PFNA-13C_IS	10.0000	9.8005	ng/mL
PFNA-13C	Auto	4.770	2845070	4594718	13C7-PFUnDA_IS	5.0000	4.8460	ng/mL
PFNA-13C_IS	Auto	4.770	2845070	2845070	----	5.0000	5.0000	ng/mL
PFDA	Auto	4.955	6299718	2172638	PFDA-13C_IS	10.0000	9.6941	ng/mL
PFDA-13C	Auto	4.955	2172638	4594718	13C7-PFUnDA_IS	5.0000	5.0068	ng/mL
PFDA-13C_IS	Auto	4.955	2172638	2172638	----	5.0000	5.0000	ng/mL
PFUnA	Auto	5.139	7045699	2889039	PFUnA-13C_IS	10.0000	10.2091	ng/mL
PFUnA-13C	Auto	5.139	2889039	4594718	13C7-PFUnDA_IS	5.0000	4.9970	ng/mL
PFUnA-13C_IS	Auto	5.139	2889039	2889039	----	5.0000	5.0000	ng/mL
PFDoA	Auto	5.317	6205416	3208696	PFDoA-13C_IS	10.0000	9.9394	ng/mL
PFDoA-13C	Auto	5.317	3208696	4594718	13C7-PFUnDA_IS	5.0000	5.0665	ng/mL
PFDoA-13C_IS	Auto	5.317	3208696	3208696	----	5.0000	5.0000	ng/mL
PFTrDA	Auto	5.482	6474242	2159011	PFTeDA-13C_IS	10.0000	10.0999	ng/mL
PFTeDA	Auto	5.640	4662693	2159011	PFTeDA-13C_IS	10.0000	9.6061	ng/mL
PFTeDA-13C	Auto	5.640	2159011	4594718	13C7-PFUnDA_IS	5.0000	5.0375	ng/mL
PFTeDA-13C_IS	Auto	5.640	2159011	2159011	----	5.0000	5.0000	ng/mL
FOSA	Auto	5.237	3612845	1418393	FOSA-13C_IS	10.0000	10.0218	ng/mL
FOSA-13C	Auto	5.236	1418393	4594718	13C7-PFUnDA_IS	5.0000	5.1968	ng/mL
FOSA-13C_IS	Auto	5.236	1418393	1418393	----	5.0000	5.0000	ng/mL
N-MeFOSA	Auto	5.630	1159747	313584	N-MeFOSA-d3_IS	10.0000	9.8795	ng/mL
N-MeFOSA-d3	Auto	5.627	313584	4594718	13C7-PFUnDA_IS	5.0000	4.9412	ng/mL
N-MeFOSA-d3_IS	Auto	5.627	313584	313584	----	5.0000	5.0000	ng/mL
N-EtFOSA	Auto	5.767	221916	353055	N-EtFOSA-d9_IS	10.0000	10.0299	ng/mL
N-EtFOSA-d9	Auto	5.761	353055	4594718	13C7-PFUnDA_IS	5.0000	4.8962	ng/mL
N-EtFOSA-d9_IS	Auto	5.761	353055	353055	----	5.0000	5.0000	ng/mL

210819_025 (continued)

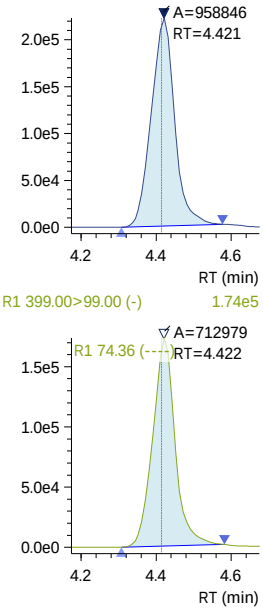
(Table continued from previous page)

Name	Mode ID	Found RT	Area	ISTD Area	ISTD Name	Std. Conc.	Conc.	Unit
N-MeFOSE	Auto	5.610	1398569	320256	N-MeFOSE-d7_IS	10.0000	9.9719	ng/mL
N-MeFOSE-d7	Auto	5.602	320256	4594718	13C7-PFUnDA_IS	5.0000	5.0463	ng/mL
N-MeFOSE-d7_IS	Auto	5.602	320256	320256	----	5.0000	5.0000	ng/mL
N-EtFOSE	Auto	5.741	1535219	326874	N-EtFOSE-d9_IS	10.0000	10.2637	ng/mL
N-EtFOSE-d9	Auto	5.731	326874	4594718	13C7-PFUnDA_IS	5.0000	4.9749	ng/mL
N-EtFOSE-d9_IS	Auto	5.731	326874	326874	----	5.0000	5.0000	ng/mL
N-MeFOSAA	Auto	5.052	506506	262902	N-MeFOSAA-d3_IS	10.0000	9.8402	ng/mL
N-MeFOSAA-d3	Auto	5.052	262902	4594718	13C7-PFUnDA_IS	5.0000	5.0793	ng/mL
N-MeFOSAA-d3_IS	Auto	5.052	262902	262902	----	5.0000	5.0000	ng/mL
N-EtFOSAA	Auto	5.152	441456	247056	N-EtFOSAA-d5_IS	10.0000	10.0522	ng/mL
N-EtFOSAA-d5	Auto	5.149	247056	4594718	13C7-PFUnDA_IS	5.0000	5.1272	ng/mL
N-EtFOSAA-d5_IS	Auto	5.149	247056	247056	----	5.0000	5.0000	ng/mL
4_2-FTS_1	Auto	4.215	924460	534651	4_2-FTS-13C_IS	9.3722	8.6306	ng/mL
4_2-FTS-13C	Auto	4.215	534651	4594718	13C7-PFUnDA_IS	5.0000	5.0636	ng/mL
4_2-FTS-13C_IS	Auto	4.215	534651	534651	----	5.0000	5.0000	ng/mL
6_2-FTS_1	Auto	4.581	1262167	507420	6_2-FTS-13C_IS	9.5117	8.9423	ng/mL
6_2-FTS-13C	Auto	4.582	507420	4594718	13C7-PFUnDA_IS	5.0000	5.0869	ng/mL
6_2-FTS-13C_IS	Auto	4.582	507420	507420	----	5.0000	5.0000	ng/mL
8_2-FTS_1	Auto	4.953	556341	271901	8_2-FTS-13C_IS	9.6005	8.7970	ng/mL
8_2-FTS-13C	Auto	4.954	271901	4594718	13C7-PFUnDA_IS	5.0000	5.1213	ng/mL
8_2-FTS-13C_IS	Auto	4.954	271901	271901	----	5.0000	5.0000	ng/mL
10_2-FtS_1	Auto	5.324	415899	271901	8_2-FTS-13C_IS	9.6619	9.5062	ng/mL
HPFO_DA	Auto	4.308	1084565	587719	HFPO_DA-13C_IS	10.0000	10.1451	ng/mL
HFPO_DA-13C	Auto	4.308	587719	4594718	13C7-PFUnDA_IS	5.0000	4.9505	ng/mL
HFPO_DA-13C_IS	Auto	4.308	587719	587719	----	5.0000	5.0000	ng/mL

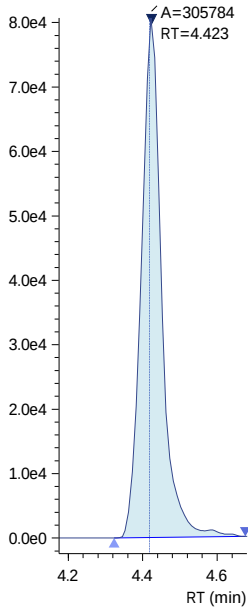


210819_025 (continued)

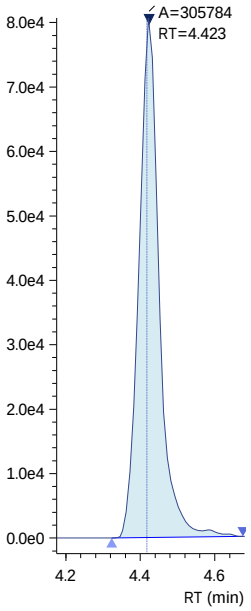
PFHxS_1
Conc 9.4160
R#1 74.36 (71.26)
Q 399.00>80.00 (-) 2.23e5
R1 399.00>99.00 (-) 1.74e5



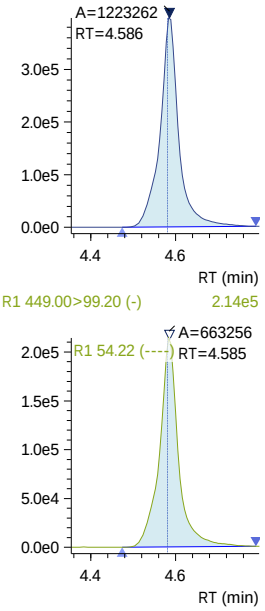
PFHxS-18O
Conc 4.7278
Q 402.70>84.05 (-) 8.07e4



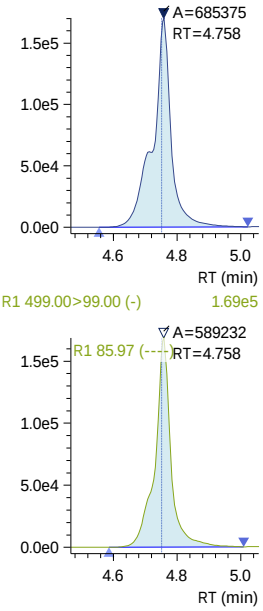
PFHxS-18O_IS
Conc 5.0000
ISTD 402.70>84.05 (-) 8.07e4



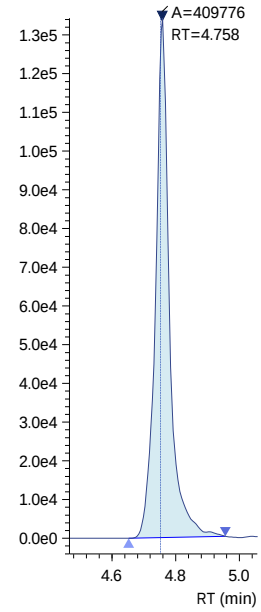
PFHpS_1
Conc 9.5315
R#1 54.22 (53.84)
Q 449.00>80.15 (-) 3.98e5
R1 449.00>99.20 (-) 2.14e5



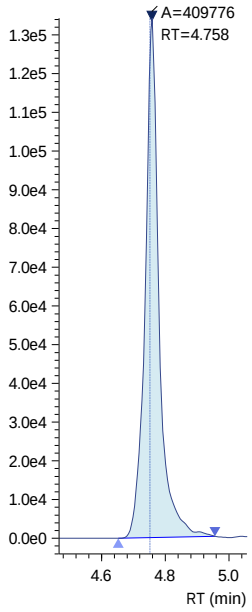
PFOS_1
Conc 8.8913
R#1 85.97 (86.72)
Q 499.00>80.00 (-) 1.70e5
R1 499.00>99.00 (-) 1.69e5



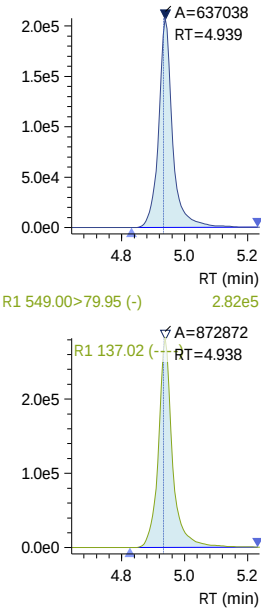
PFOS-13C
Conc 5.0978
Q 502.80>80.05 (-) 1.34e5



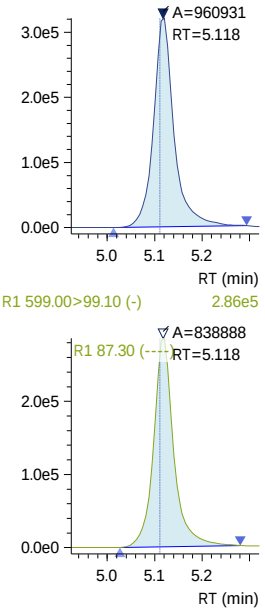
PFOS-13C_IS
Conc 5.0000
ISTD 502.80>80.05 (-) 1.34e5



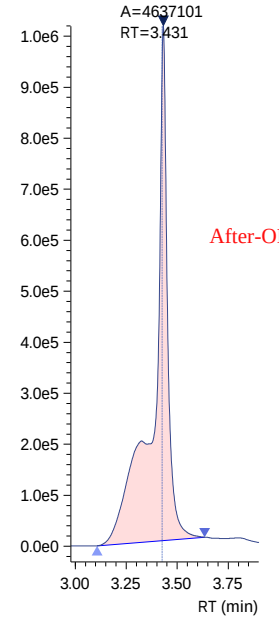
PFNS
Conc 9.1382
R#1 137.02 (129.18)
Q 549.00>99.00 (-) 2.08e5
R1 549.00>79.95 (-) 2.82e5



PFDS_1
Conc 9.5974
R#1 87.30 (90.77)
Q 599.00>79.90 (-) 3.22e5
R1 599.00>99.10 (-) 2.86e5



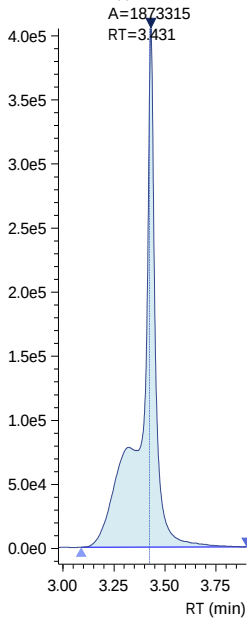
PFBA
Conc 9.8974
Q 213.00>169.10 (-) 1.02e6



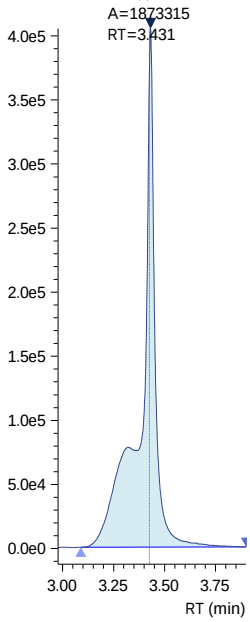
After-OI

210819_025 (continued)

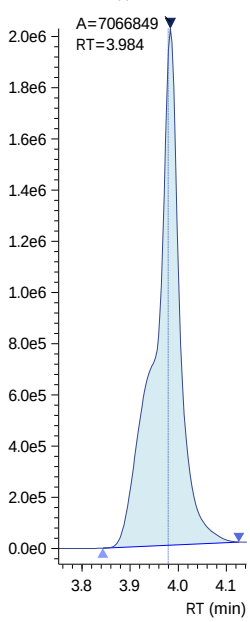
PFBA-13C
Conc 4.9919
Q 216.90>172.15 (-) 4.06e5



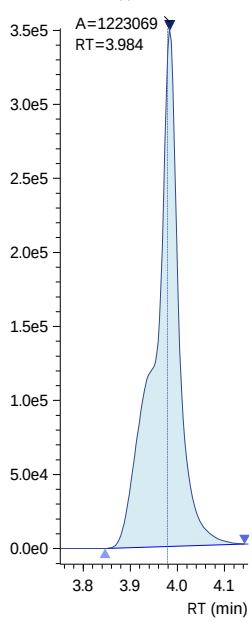
PFBA-13C_IS
Conc 5.0000
ISTD 216.90>172.15 (-) 4.06e5



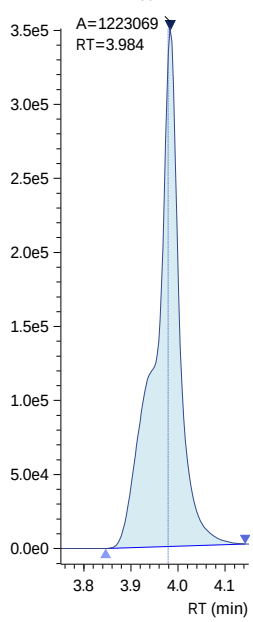
PFPeA
Conc 9.0850
Q 263.05>219.10 (-) 2.03e6



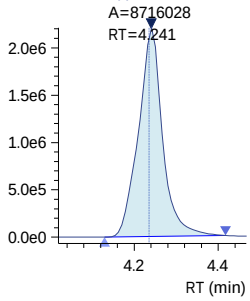
PFPeA-13C
Conc 4.9455
Q 267.90>223.00 (-) 3.51e5



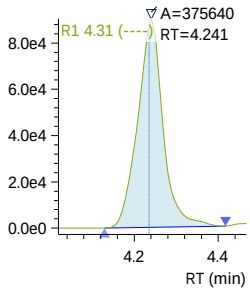
PFPeA-13C_IS
Conc 5.0000
ISTD 267.90>223.00 (-) 3.51e5



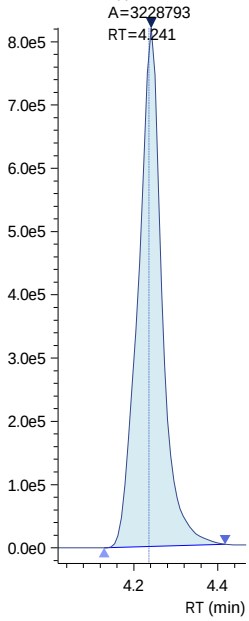
PFHxA
Conc 9.9630
R#1 4.31 (4.17)
Q 313.00>269.00 (-) 2.21e6



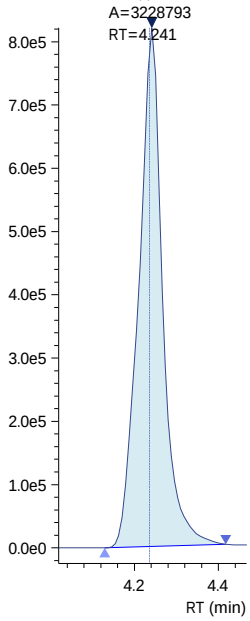
R1 313.00>119.10 (-) 9.05e4



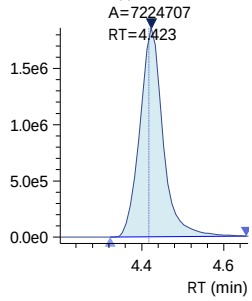
PFHxA-13C
Conc 4.7417
Q 314.90>270.10 (-) 8.22e5



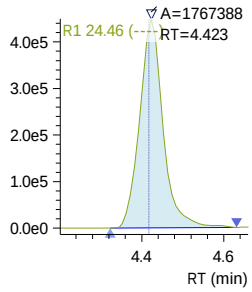
PFHxA-13C_IS
Conc 5.0000
ISTD 314.90>270.10 (-) 8.22e5



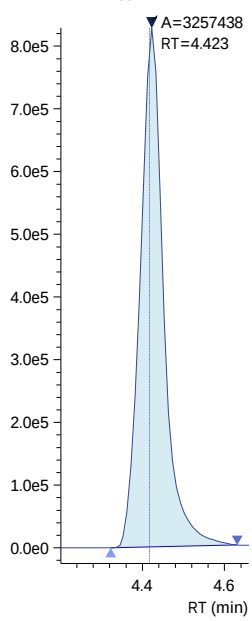
PFHpA
Conc 10.1994
R#1 24.46 (26.04)
Q 362.90>319.00 (-) 1.86e6



R1 362.90>169.00 (-) 4.50e5

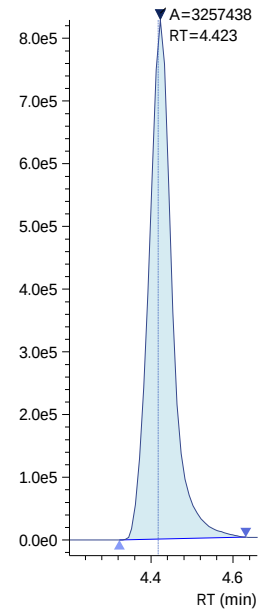


PFHpA-13C
Conc 4.7117
Q 366.90>322.10 (-) 8.29e5

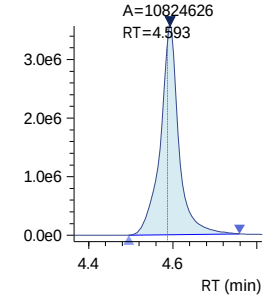


210819_025 (continued)

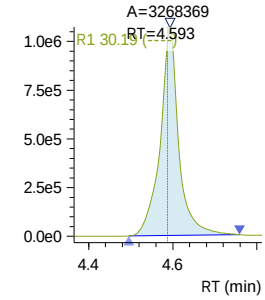
PFHpA-13C_IS
Conc 5.0000
ISTD 366.90>322.10 (-) 8.29e5



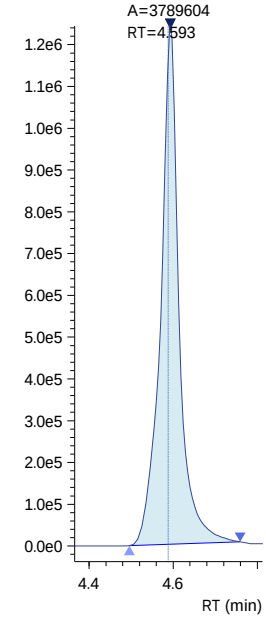
PFOA
Conc 9.2936
R#1 30.19 (30.35)
Q 413.00>369.00 (-) 3.57e6



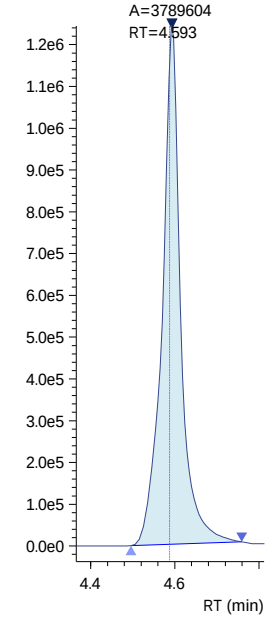
R1 413.00>169.10 (-) 1.07e6



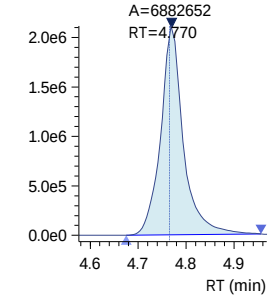
PFOA-13C
Conc 4.9239
Q 416.80>372.05 (-) 1.24e6



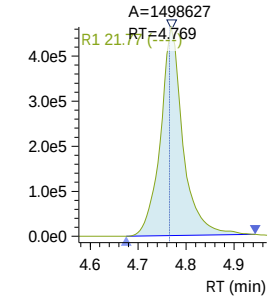
PFOA-13C_IS
Conc 5.0000
ISTD 416.80>372.05 (-) 1.24e6



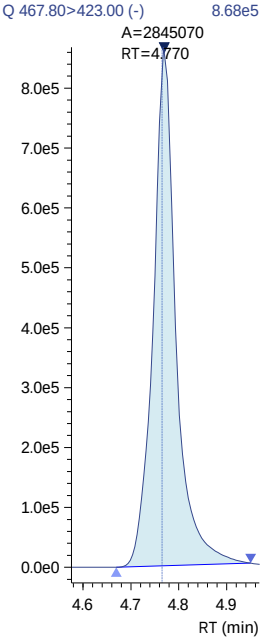
PFNA
Conc 9.8005
R#1 21.77 (22.35)
Q 463.00>418.90 (-) 2.12e6



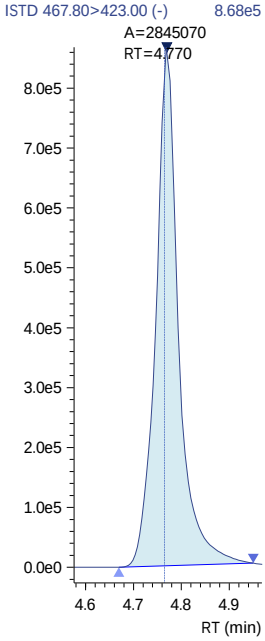
R1 463.00>219.00 (-) 4.65e5



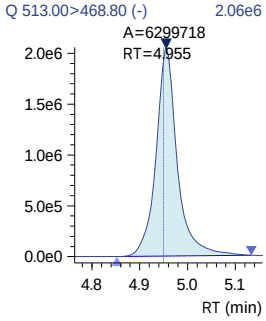
PFNA-13C
Conc 4.8460
Q 467.80>423.00 (-) 8.68e5



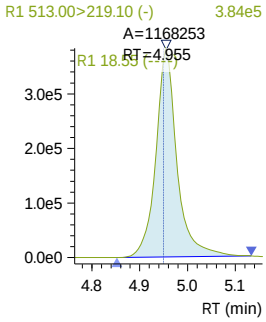
PFNA-13C_IS
Conc 5.0000
ISTD 467.80>423.00 (-) 8.68e5



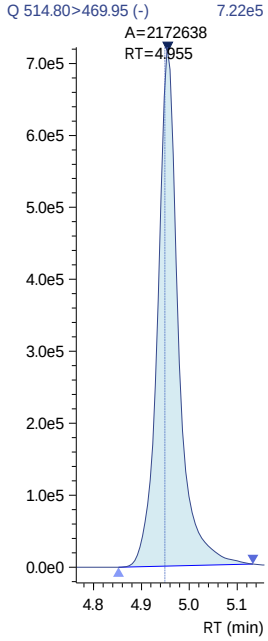
PFDA
Conc 9.6941
R#1 18.55 (18.73)
Q 513.00>468.80 (-) 2.06e6



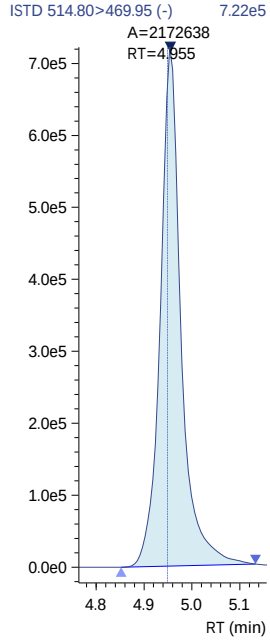
R1 513.00>219.10 (-) 3.84e5



PFDA-13C
Conc 5.0068
Q 514.80>469.95 (-) 7.22e5

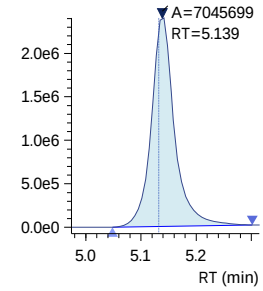


PFDA-13C_IS
Conc 5.0000
ISTD 514.80>469.95 (-) 7.22e5

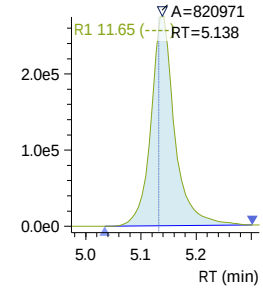


210819_025 (continued)

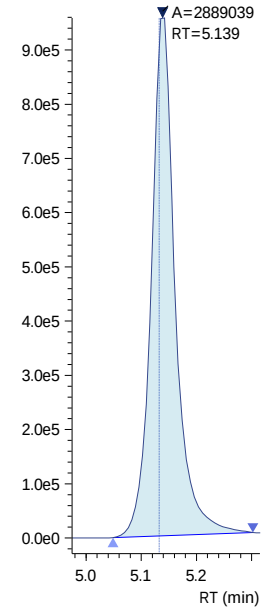
PFUnA
Conc 10.2091
R#1 11.65 (11.60)
Q 563.00>518.90 (-) 2.41e6



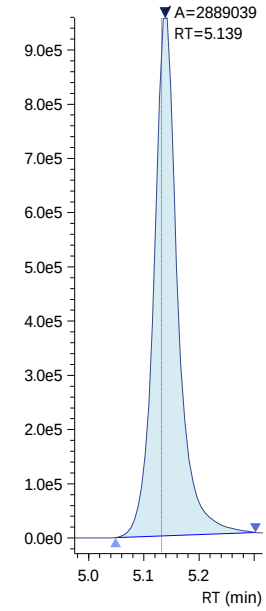
R1 563.00>219.00 (-) 2.75e5



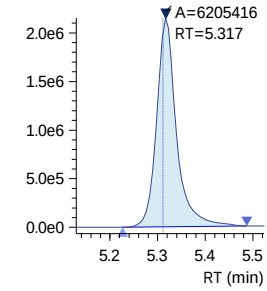
PFUnA-13C
Conc 4.9970
Q 564.80>519.95 (-) 9.59e5



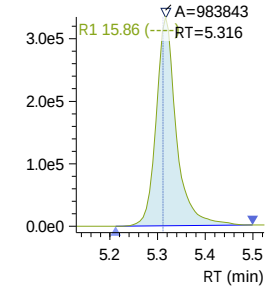
PFUnA-13C_IS
Conc 5.0000
ISTD 564.80>519.95 (-) 9.59e5



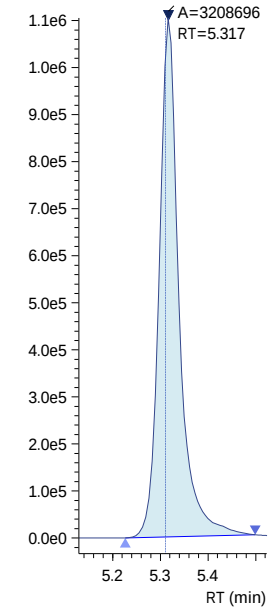
PFDoA
Conc 9.9394
R#1 15.86 (15.11)
Q 613.05>569.00 (-) 2.15e6



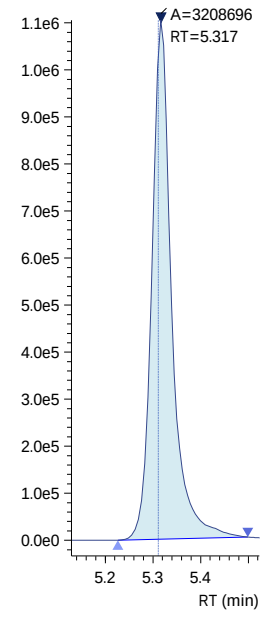
R1 613.05>169.00 (-) 3.35e5



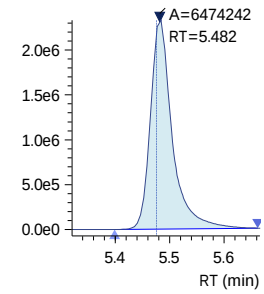
PFDoA-13C
Conc 5.0665
Q 614.80>569.95 (-) 1.11e6



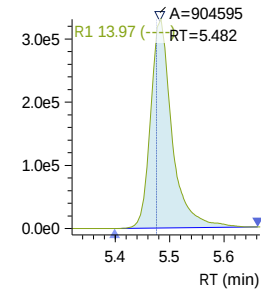
PFDoA-13C_IS
Conc 5.0000
ISTD 614.80>569.95 (-) 1.11e6



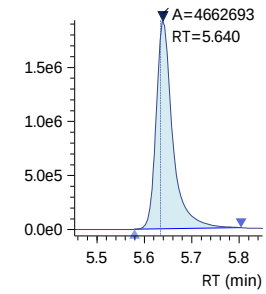
PFTrDA
Conc 10.0999
R#1 13.97 (14.19)
Q 663.00>618.90 (-) 2.33e6



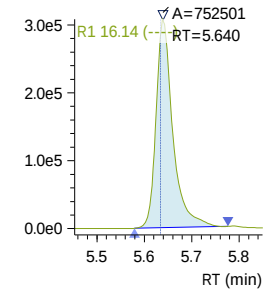
R1 662.90>169.00 (-) 3.31e5



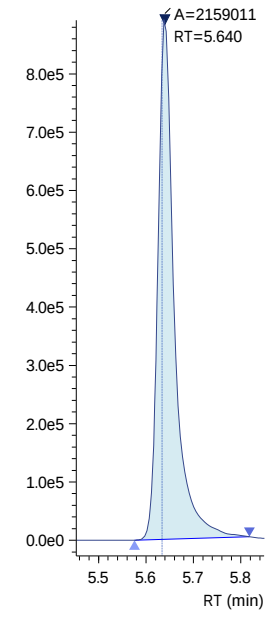
PFTeDA
Conc 9.6061
R#1 16.14 (14.98)
Q 713.00>669.00 (-) 1.94e6



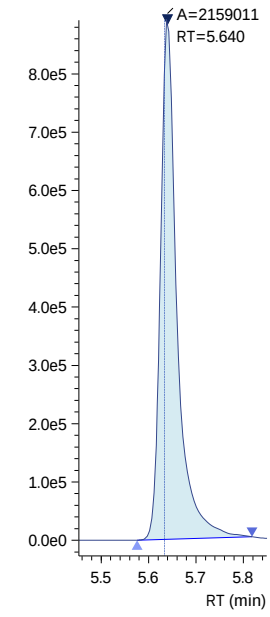
R1 713.00>169.10 (-) 3.08e5



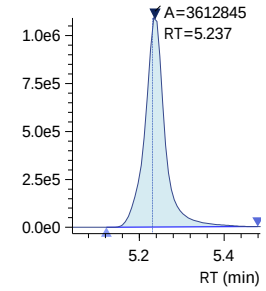
PFTeDA-13C
Conc 5.0375
Q 714.70>669.90 (-) 8.92e5

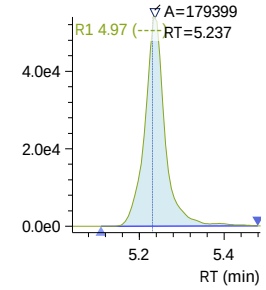


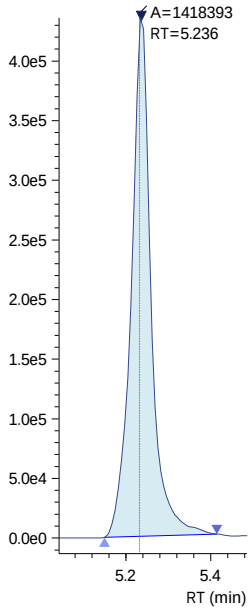
PFTeDA-13C_IS
Conc 5.0000
ISTD 714.70>669.90 (-) 8.92e5

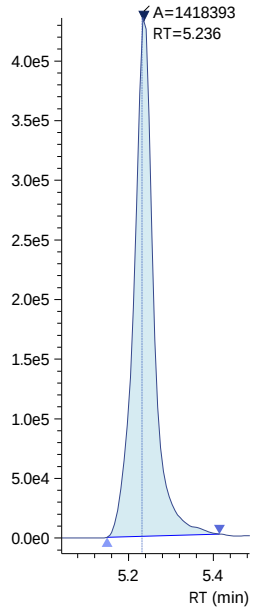


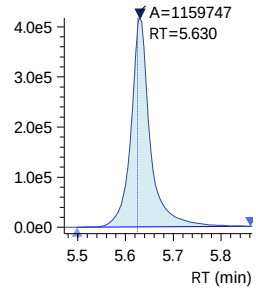
210819_025 (continued)

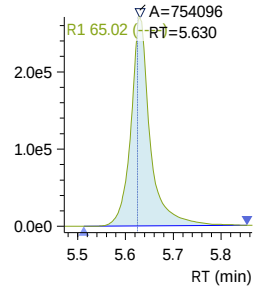
FOSA
Conc 10.0218
R#1 4.97 (4.89)
Q 498.20>78.00 (-) 1.09e6


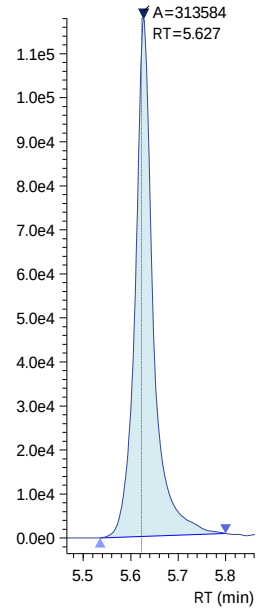
R1 498.20>64.10 (-) 5.40e4


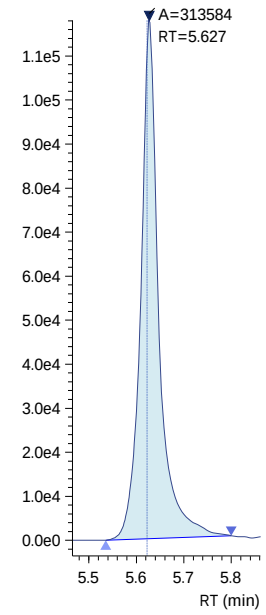
FOSA-13C
Conc 5.1968
Q 506.00>78.05 (-) 4.36e5


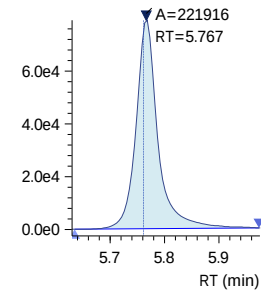
FOSA-13C_IS
Conc 5.0000
ISTD 506.00>78.05 (-) 4.36e5


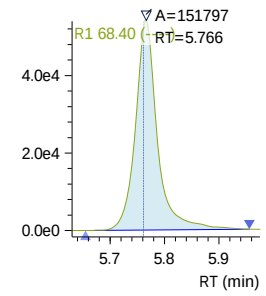
N-MeFOSA
Conc 9.8795
R#1 65.02 (62.72)
Q 512.00>169.10 (-) 4.18e5


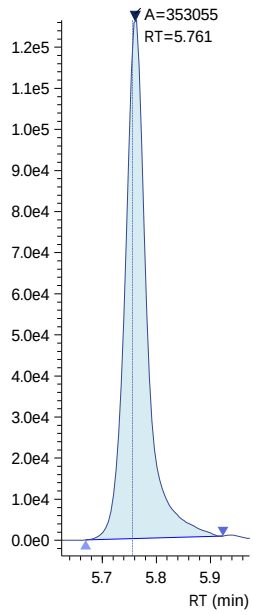
R1 512.00>219.00 (-) 2.71e5


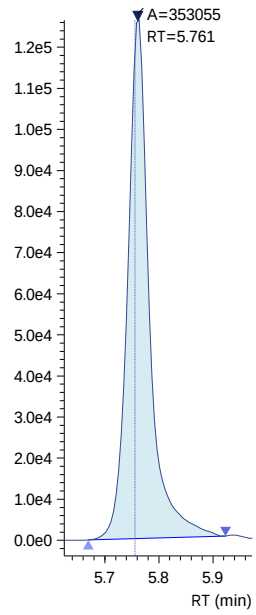
N-MeFOSA-d3
Conc 4.9412
Q 514.90>168.90 (-) 1.18e5


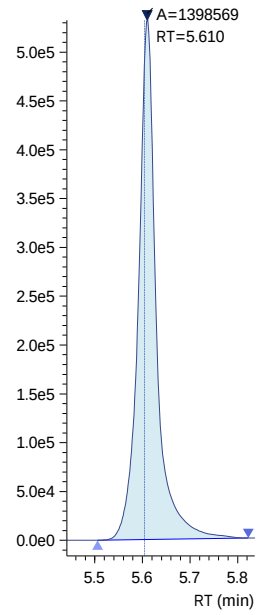
N-MeFOSA-d3_IS
Conc 5.0000
ISTD 514.90>168.90 (-) 1.18e5


N-MeFOSA
Conc 10.0299
R#1 68.40 (63.35)
Q 526.90>169.10 (-) 7.93e4


R1 526.90>219.00 (-) 5.40e4


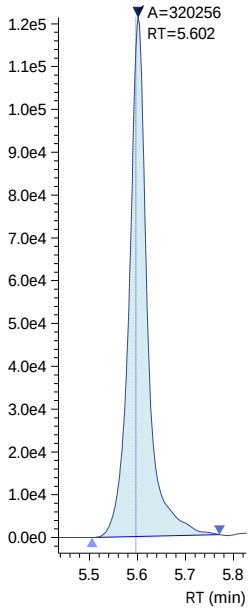
N-EtFOSA-d9
Conc 4.8962
Q 530.90>169.15 (-) 1.27e5


N-EtFOSA-d9_IS
Conc 5.0000
ISTD 530.90>169.15 (-) 1.27e5


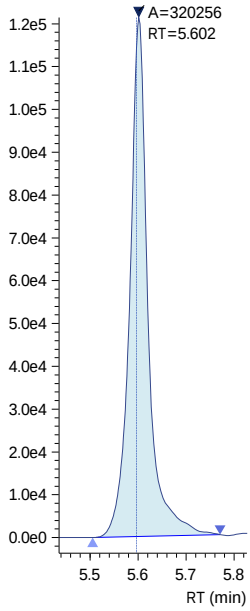
N-MeFOSE
Conc 9.9719
Q 616.00>59.00 (-) 5.33e5


210819_025 (continued)

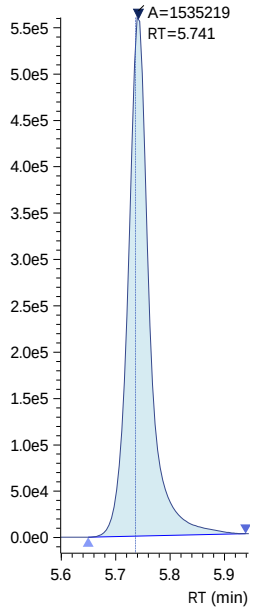
N-MeFOSE-d7
Conc 5.0463
Q 622.70>59.10 (-) 1.21e5



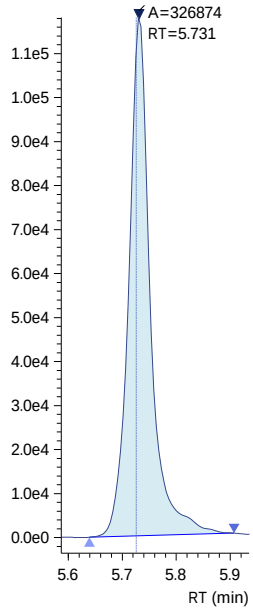
N-MeFOSE-d7_IS
Conc 5.0000
ISTD 622.70>59.10 (-) 1.21e5



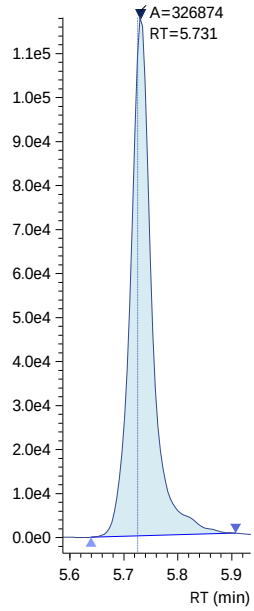
N-EtFOSE
Conc 10.2637
Q 630.00>58.90 (-) 5.61e5



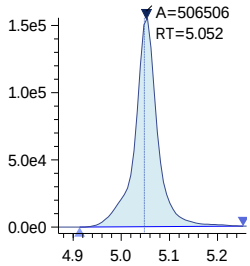
N-EtFOSE-d9
Conc 4.9749
Q 638.70>59.10 (-) 1.18e5



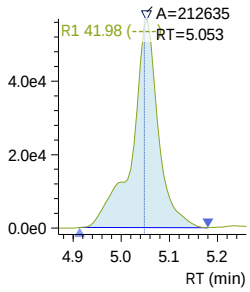
N-EtFOSE-d9_IS
Conc 5.0000
ISTD 638.70>59.10 (-) 1.18e5



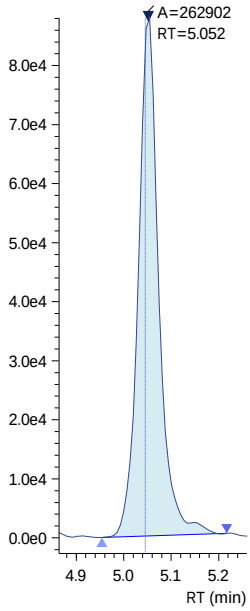
N-MeFOSAA
Conc 9.8402
R#1 41.98 (35.26)
Q 570.20>419.00 (-) 1.56e5



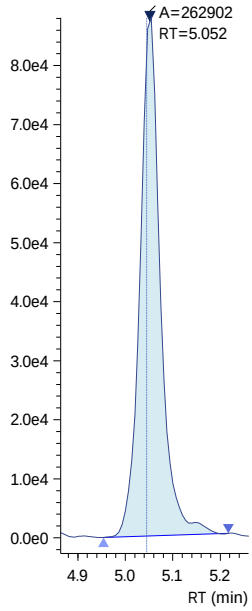
R1 570.20>512.00 (-) 5.69e4



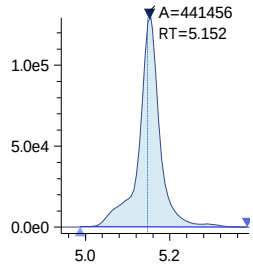
N-MeFOSAA-d3
Conc 5.0793
Q 572.80>419.05 (-) 8.81e4



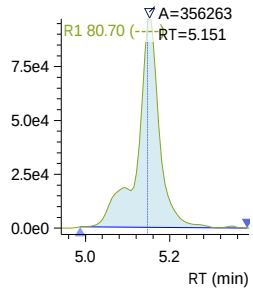
N-MeFOSAA-d3_IS
Conc 5.0000
ISTD 572.80>419.05 (-) 8.81e4



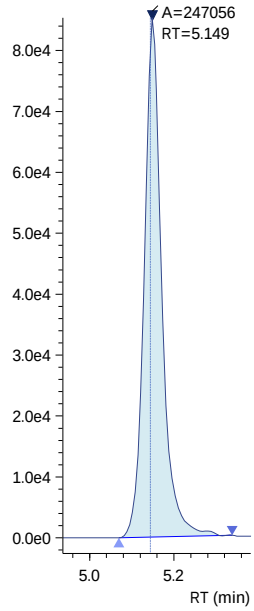
N-EtFOSAA
Conc 10.0522
R#1 80.70 (77.25)
Q 584.20>418.95 (-) 1.29e5



R1 584.20>526.10 (-) 9.72e4

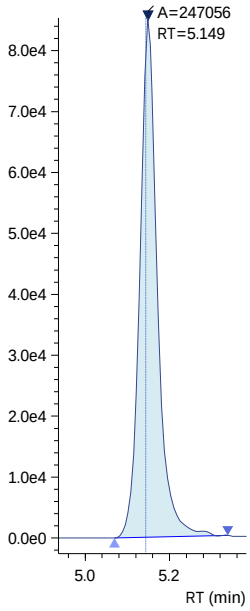


N-EtFOSAA-d5
Conc 5.1272
Q 588.80>419.00 (-) 8.54e4

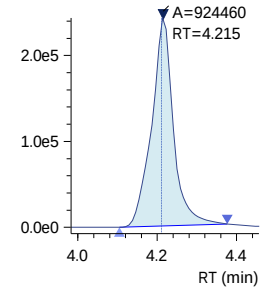


210819_025 (continued)

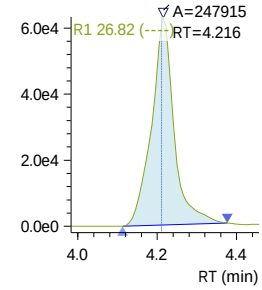
N-EtFOSAA-d5_IS
Conc 5.0000
ISTD 588.80>419.00 (-) 8.54e4



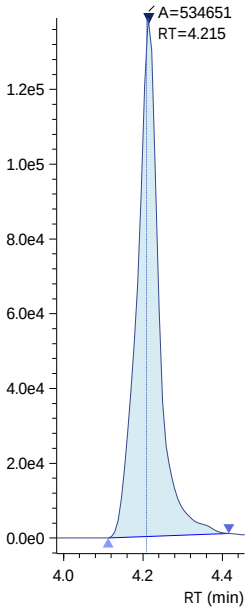
4_2-FTS_1
Conc 8.6306
R#1 26.82 (39.85)
Q 327.00>307.05 (-) 2.44e5



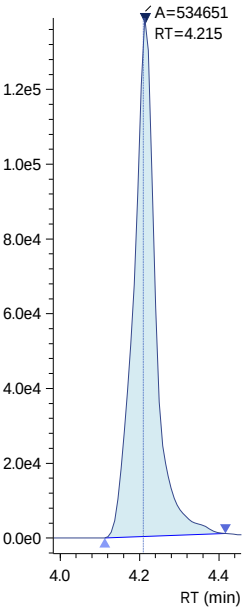
R1 327.00>81.10 (-) 6.33e4



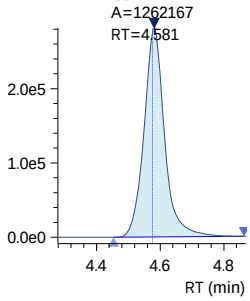
4_2-FTS-13C
Conc 5.0636
Q 328.80>309.05 (-) 1.39e5



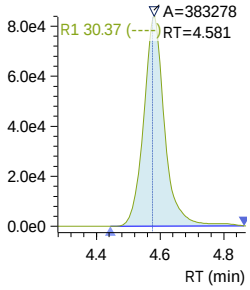
4_2-FTS-13C_IS
Conc 5.0000
ISTD 328.80>309.05 (-) 1.39e5



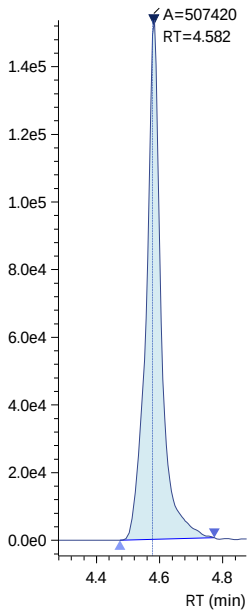
6_2-FTS_1
Conc 8.9423
R#1 30.37 (29.95)
Q 427.00>407.00 (-) 2.82e5



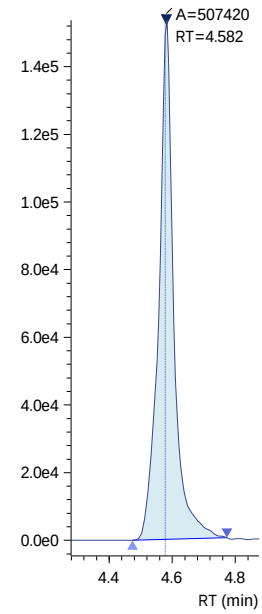
R1 427.00>80.90 (-) 8.37e4



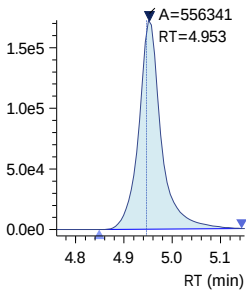
6_2-FTS-13C
Conc 5.0869
Q 428.90>409.00 (-) 1.54e5



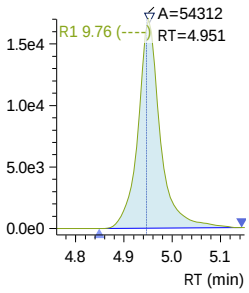
6_2-FTS-13C_IS
Conc 5.0000
ISTD 428.90>409.00 (-) 1.54e5



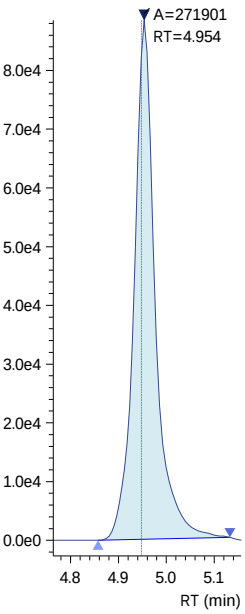
8_2-FTS_1
Conc 8.7970
R#1 9.76 (9.42)
Q 527.10>506.90 (-) 1.73e5



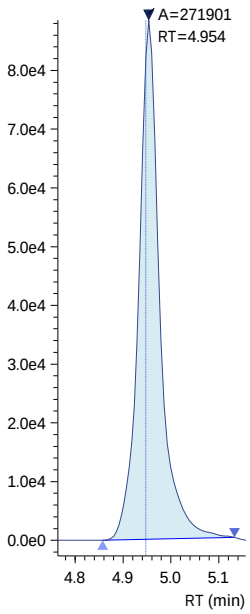
R1 527.20>487.00 (-) 1.70e4



8_2-FTS-13C
Conc 5.1213
Q 528.80>509.00 (-) 8.85e4

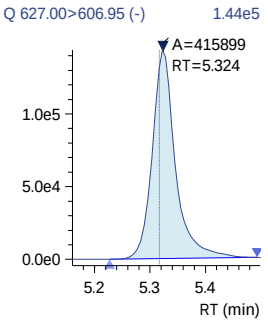


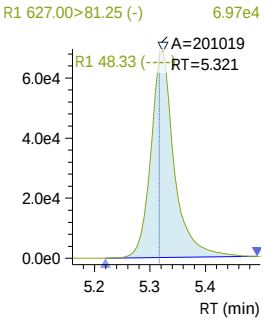
8_2-FTS-13C_IS
Conc 5.0000
ISTD 528.80>509.00 (-) 8.85e4



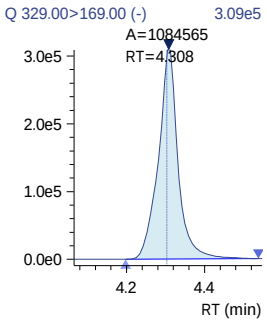
210819_025 (continued)

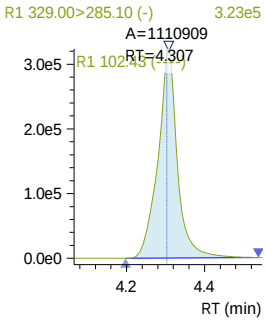
10_2-FtS_1
Conc 9.5062
R#1 48.33 (49.86)



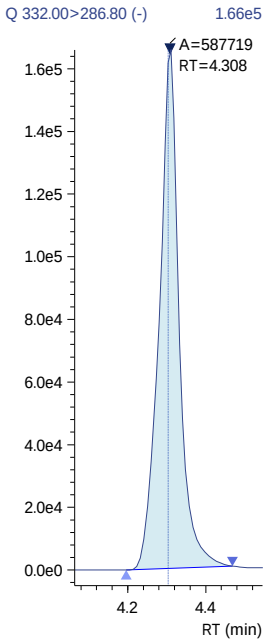


HPFO_DA
Conc 10.1451
R#1 102.43 (101.52)

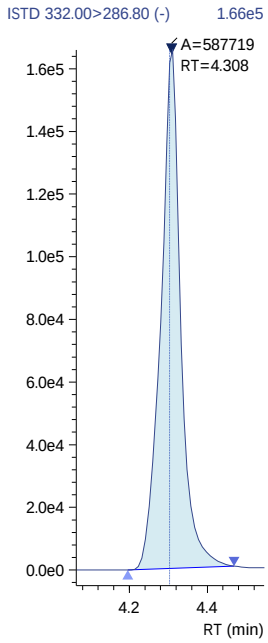




HFPO_DA-13C
Conc 4.9505



HFPO_DA-13C_IS
Conc 5.0000

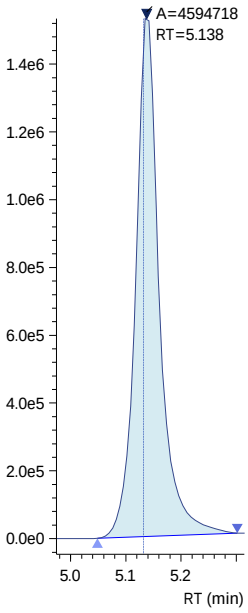


Insight Report
Before Manual Integration
Printed 8/20/2021 09:47:37

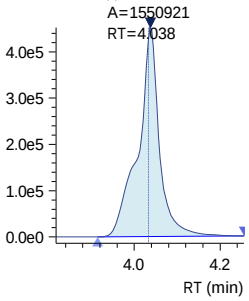
210819_025

Sample ID: PFC ICAL @ 10ppb
Date Acquired: 8/19/2021 7:31:40 PM
Acquired by: System Administrator
Data File: 210819_025
Vial: 6 | Inj. Volume: 15.0000uL | Tray: 0

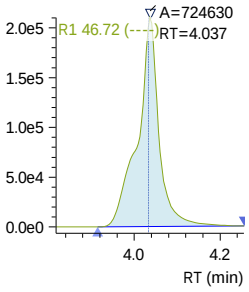
13C7-PFUnDA_IS
Conc 5.0000
ISTD 570.00>525.00 (-) 1.53e6



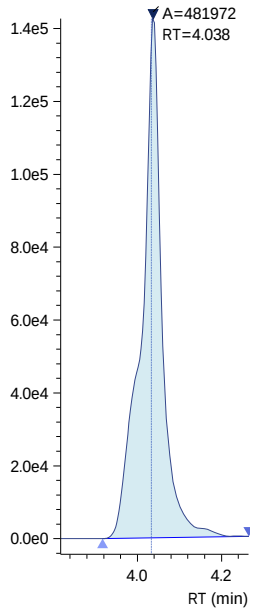
PFBS_1
Conc 8.8078
R#1 46.72 (48.11)
Q 299.00>80.00 (-) 4.52e5



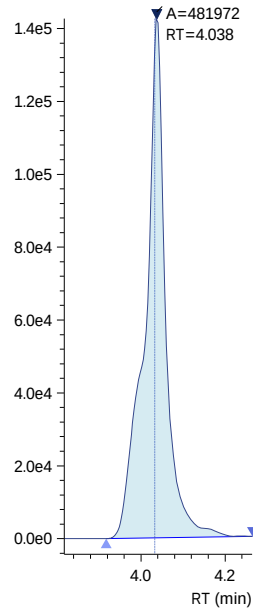
R1 298.80>99.00 (-) 2.10e5



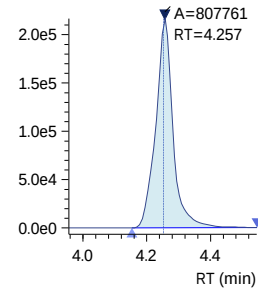
PFBS-13C
Conc 5.0844
Q 301.80>80.00 (-) 1.43e5



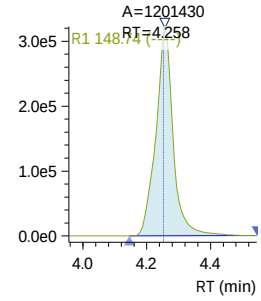
PFBS-13C_IS
Conc 5.0000
ISTD 301.80>80.00 (-) 1.43e5



PFPeS
Conc 8.2862
R#1 148.74 (149.27)
Q 349.00>99.00 (-) 2.17e5



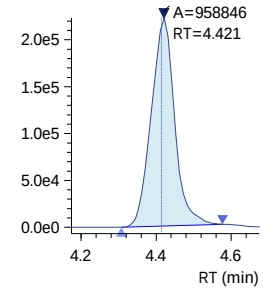
R1 349.00>79.95 (-) 3.23e5



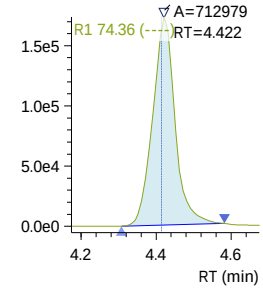
Insight Report
Before Manual Integration
Printed 8/20/2021 09:47:37

210819_025 (continued)

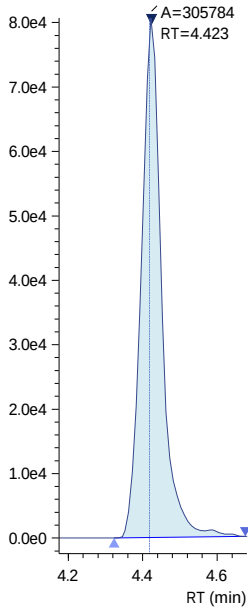
PFHxS_1
Conc 8.4848
R#1 74.36 (83.10)
Q 399.00>80.00 (-) 2.23e5



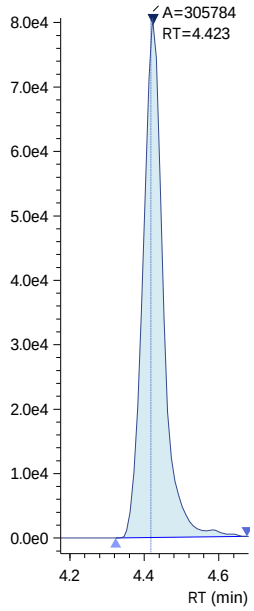
R1 399.00>99.00 (-) 1.74e5



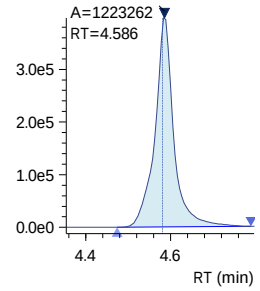
PFHxS-18O
Conc 4.7278
Q 402.70>84.05 (-) 8.07e4



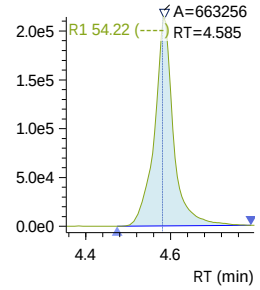
PFHxS-18O_IS
Conc 5.0000
ISTD 402.70>84.05 (-) 8.07e4



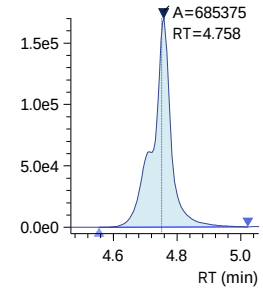
PFHpS_1
Conc 9.4110
R#1 54.22 (58.24)
Q 449.00>80.15 (-) 3.98e5



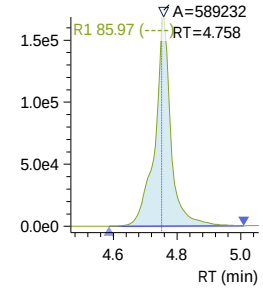
R1 449.00>99.20 (-) 2.14e5



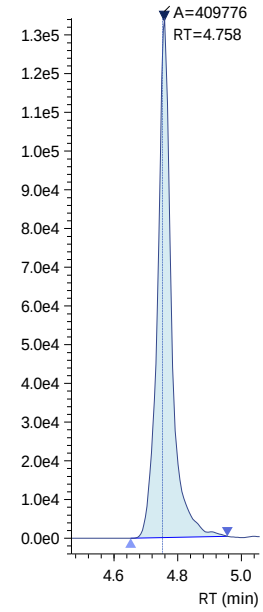
PFOS_1
Conc 8.6561
R#1 85.97 (87.63)
Q 499.00>80.00 (-) 1.70e5



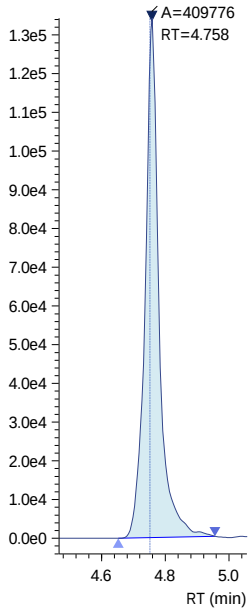
R1 499.00>99.00 (-) 1.69e5



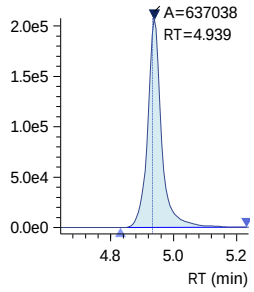
PFOS-13C
Conc 5.0978
Q 502.80>80.05 (-) 1.34e5



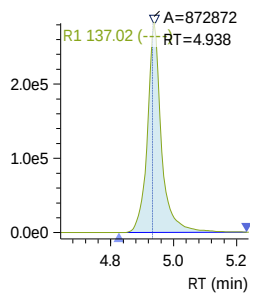
PFOS-13C_IS
Conc 5.0000
ISTD 502.80>80.05 (-) 1.34e5



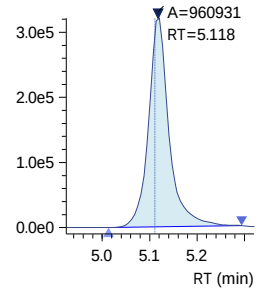
PFNS
Conc 9.2618
R#1 137.02 (137.56)
Q 549.00>99.00 (-) 2.08e5



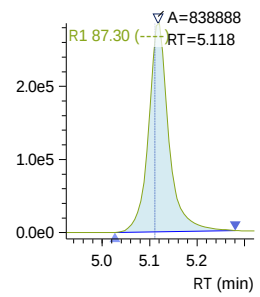
R1 549.00>79.95 (-) 2.82e5



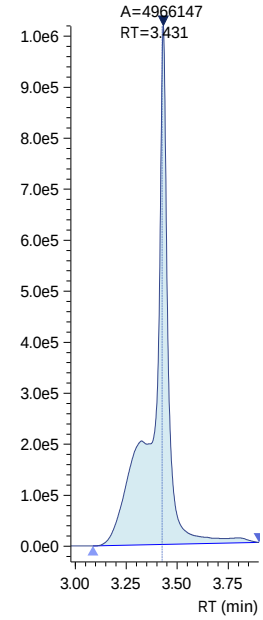
PFDS_1
Conc 9.5755
R#1 87.30 (101.78)
Q 599.00>79.90 (-) 3.22e5



R1 599.00>99.10 (-) 2.86e5

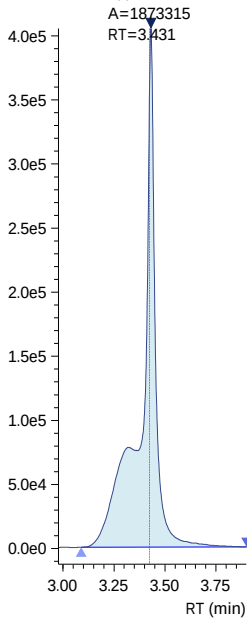


PFBA
Conc 9.9219
Q 213.00>169.10 (-) 1.02e6

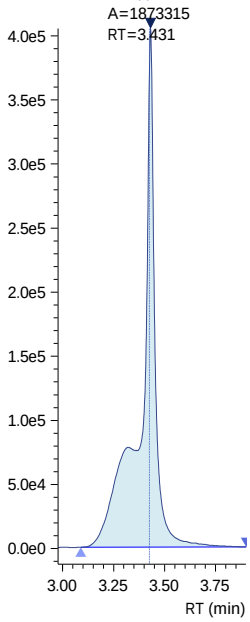


210819_025 (continued)

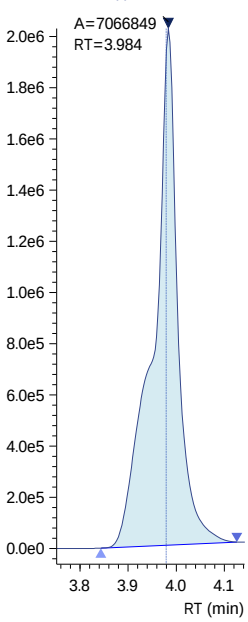
PFBA-13C
Conc 4.9919
Q 216.90>172.15 (-) 4.06e5



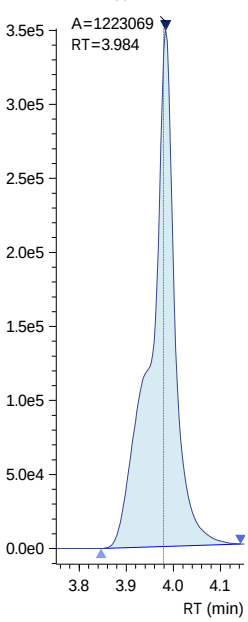
PFBA-13C_IS
Conc 5.0000
ISTD 216.90>172.15 (-) 4.06e5



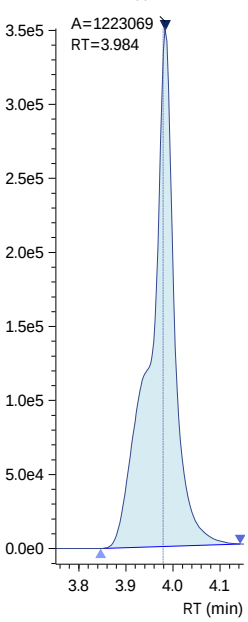
PFPeA
Conc 9.8697
Q 263.05>219.10 (-) 2.03e6



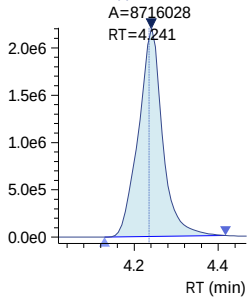
PFPeA-13C
Conc 4.9455
Q 267.90>223.00 (-) 3.51e5



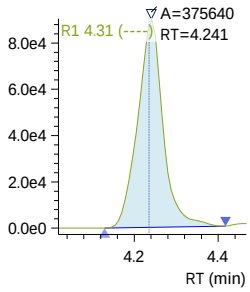
PFPeA-13C_IS
Conc 5.0000
ISTD 267.90>223.00 (-) 3.51e5



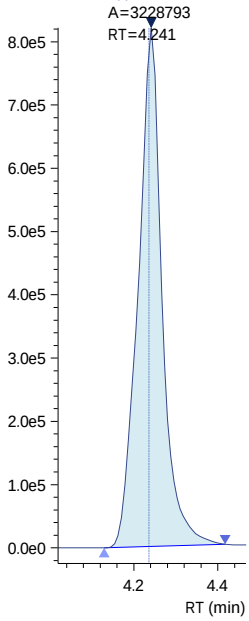
PFHxA
Conc 9.9348
R#1 4.31 (4.21)
Q 313.00>269.00 (-) 2.21e6



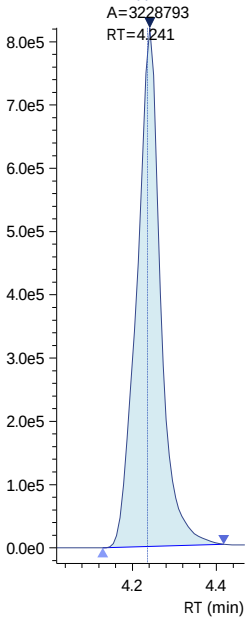
R1 313.00>119.10 (-) 9.05e4



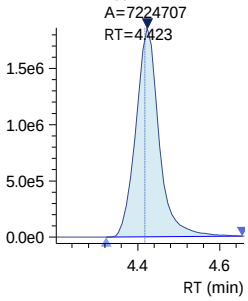
PFHxA-13C
Conc 4.7285
Q 314.90>270.10 (-) 8.22e5



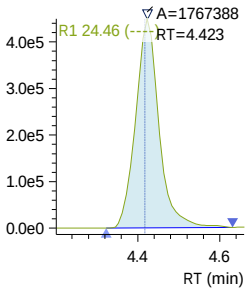
PFHxA-13C_IS
Conc 5.0000
ISTD 314.90>270.10 (-) 8.22e5



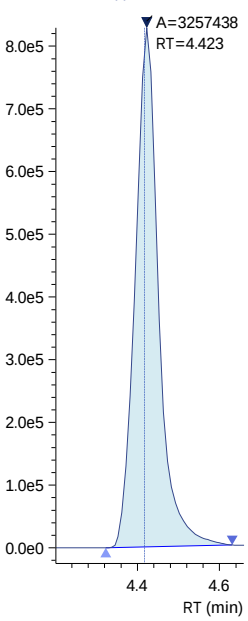
PFHpA
Conc 10.1376
R#1 24.46 (26.69)
Q 362.90>319.00 (-) 1.86e6



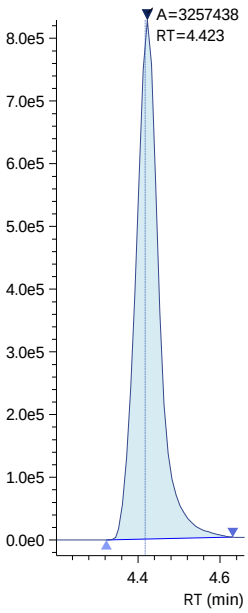
R1 362.90>169.00 (-) 4.50e5

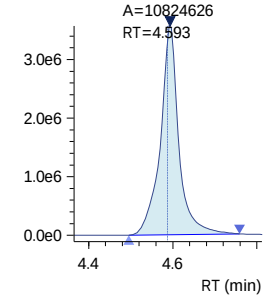


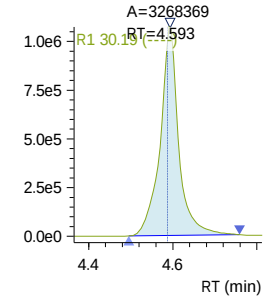
PFHpA-13C
Conc 4.7117
Q 366.90>322.10 (-) 8.29e5

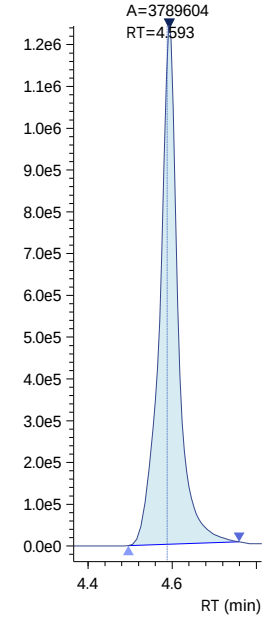


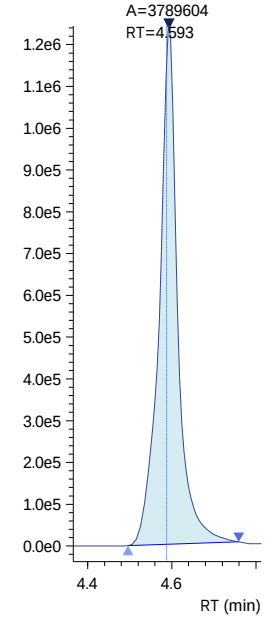
210819_025 (continued)

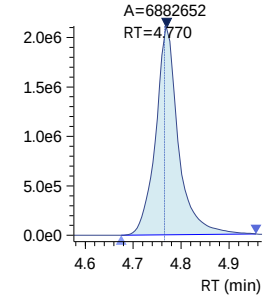
PFHpA-13C_IS
Conc 5.0000
ISTD 366.90>322.10 (-) 8.29e5


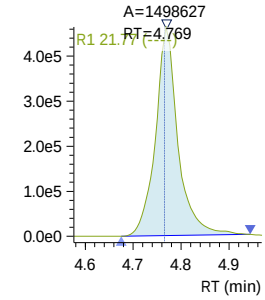
PFOA
Conc 9.9015
R#1 30.19 (31.31)
Q 413.00>369.00 (-) 3.57e6


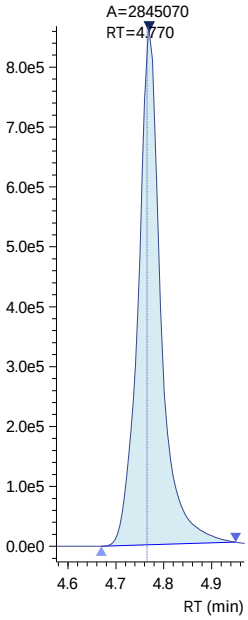
R1 413.00>169.10 (-) 1.07e6


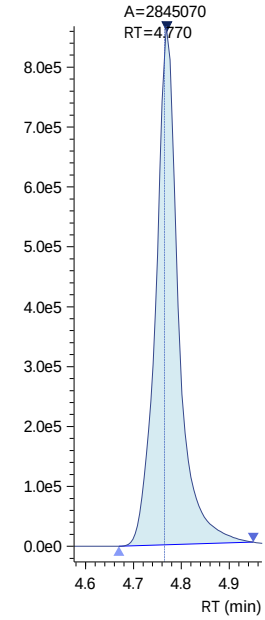
PFOA-13C
Conc 4.9239
Q 416.80>372.05 (-) 1.24e6


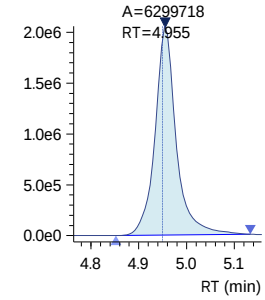
PFOA-13C_IS
Conc 5.0000
ISTD 416.80>372.05 (-) 1.24e6


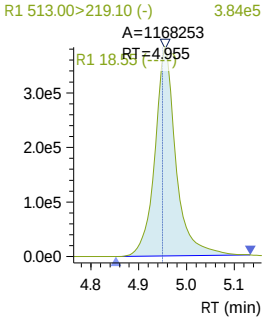
PFNA
Conc 9.7246
R#1 21.77 (20.54)
Q 463.00>418.90 (-) 2.12e6


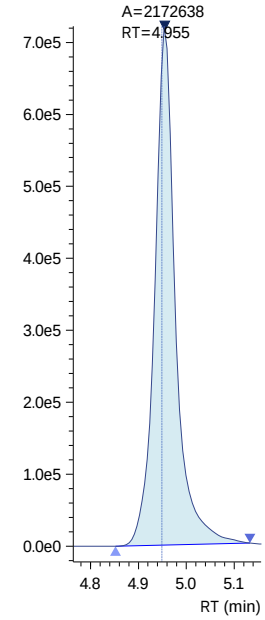
R1 463.00>219.00 (-) 4.65e5


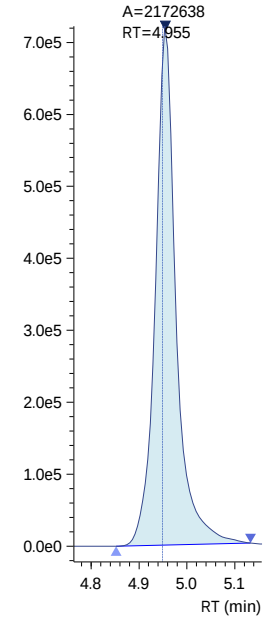
PFNA-13C
Conc 4.8460
Q 467.80>423.00 (-) 8.68e5


PFNA-13C_IS
Conc 5.0000
ISTD 467.80>423.00 (-) 8.68e5


PFDA
Conc 9.6941
R#1 18.55 (20.01)
Q 513.00>468.80 (-) 2.06e6


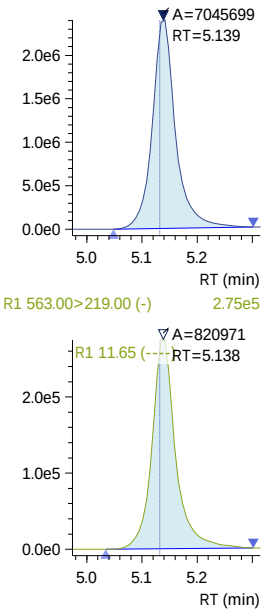
R1 513.00>219.10 (-) 3.84e5


PFDA-13C
Conc 5.0068
Q 514.80>469.95 (-) 7.22e5


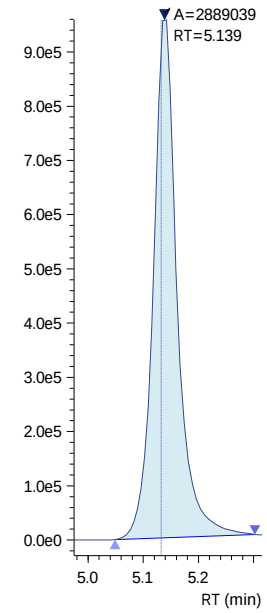
PFDA-13C_IS
Conc 5.0000
ISTD 514.80>469.95 (-) 7.22e5


210819_025 (continued)

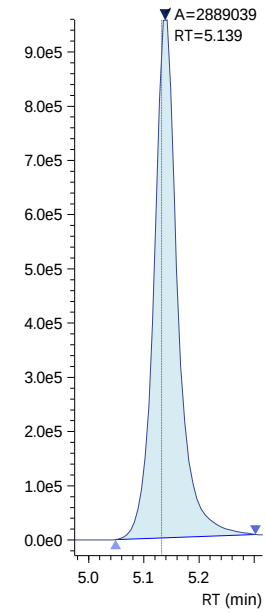
PFUnA
Conc 10.2091
R#1 11.65 (13.39)
Q 563.00>518.90 (-) 2.41e6
R1 563.00>219.00 (-) 2.75e5



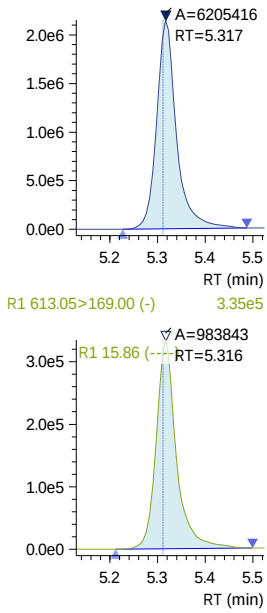
PFUnA-13C
Conc 4.9970
Q 564.80>519.95 (-) 9.59e5



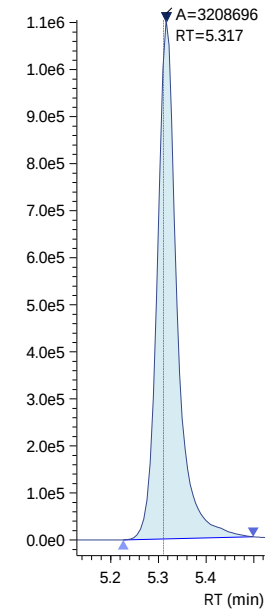
PFUnA-13C_IS
Conc 5.0000
ISTD 564.80>519.95 (-) 9.59e5



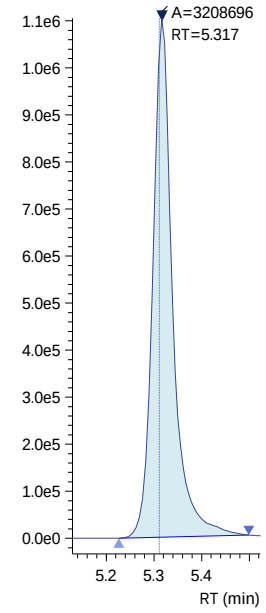
PFDoA
Conc 9.9085
R#1 15.86 (16.84)
Q 613.05>569.00 (-) 2.15e6
R1 613.05>169.00 (-) 3.35e5



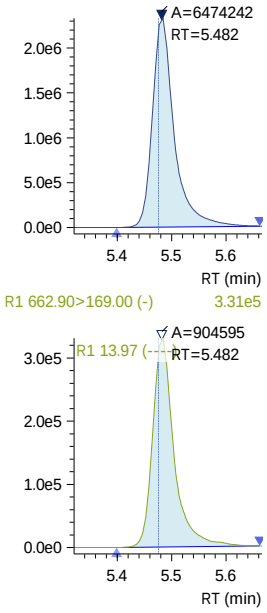
PFDoA-13C
Conc 5.0665
Q 614.80>569.95 (-) 1.11e6



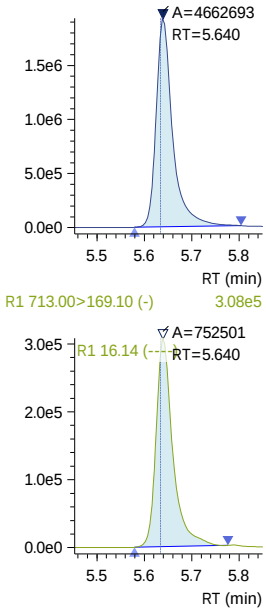
PFDoA-13C_IS
Conc 5.0000
ISTD 614.80>569.95 (-) 1.11e6



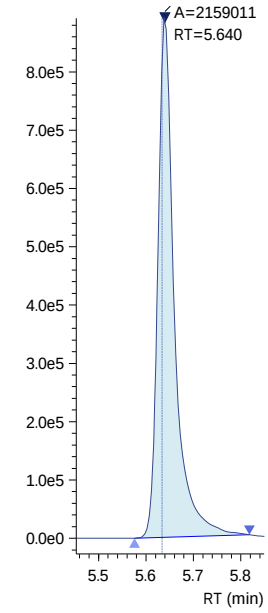
PFTrDA
Conc 10.0999
R#1 13.97 (16.76)
Q 663.00>618.90 (-) 2.33e6
R1 662.90>169.00 (-) 3.31e5



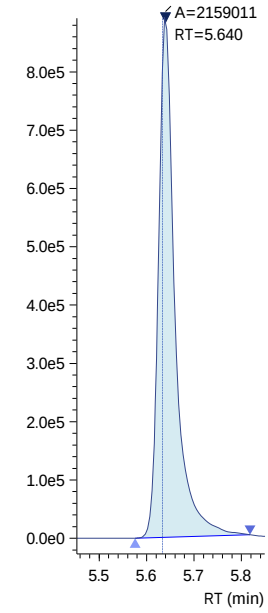
PFTeDA
Conc 9.4411
R#1 16.14 (16.56)
Q 713.00>669.00 (-) 1.94e6
R1 713.00>169.10 (-) 3.08e5



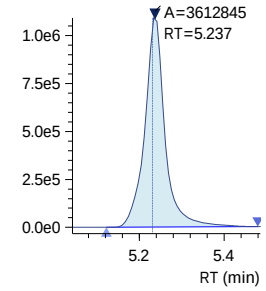
PFTeDA-13C
Conc 5.0375
Q 714.70>669.90 (-) 8.92e5

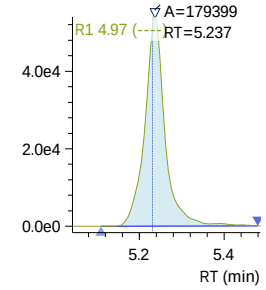


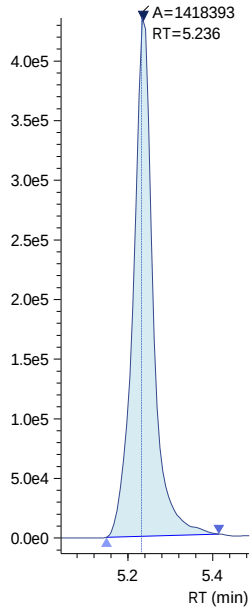
PFTeDA-13C_IS
Conc 5.0000
ISTD 714.70>669.90 (-) 8.92e5

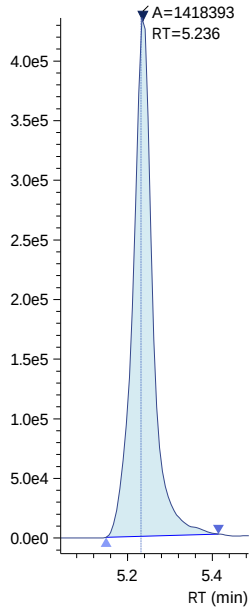


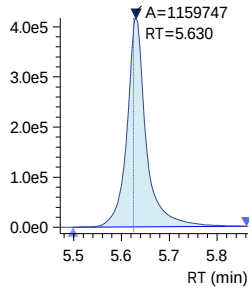
210819_025 (continued)

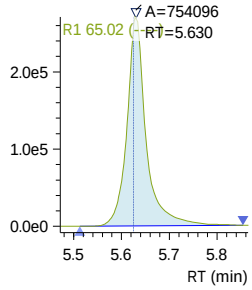
FOSA
Conc 9.8207
R#1 4.97 (4.59)
Q 498.20>78.00 (-) 1.09e6


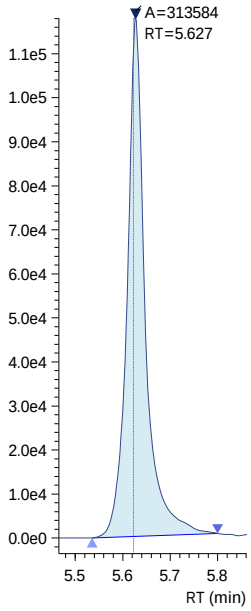
R1 498.20>64.10 (-) 5.40e4


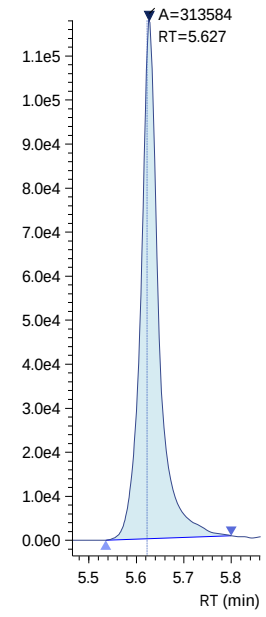
FOSA-13C
Conc 5.1968
Q 506.00>78.05 (-) 4.36e5


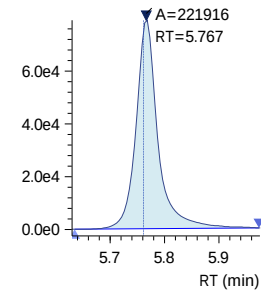
FOSA-13C_IS
Conc 5.0000
ISTD 506.00>78.05 (-) 4.36e5


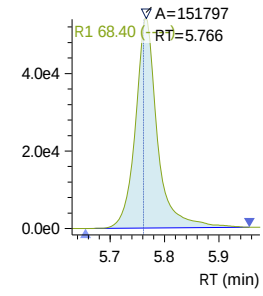
N-MeFOSA
Conc 8.9982
R#1 65.02 (68.73)
Q 512.00>169.10 (-) 4.18e5


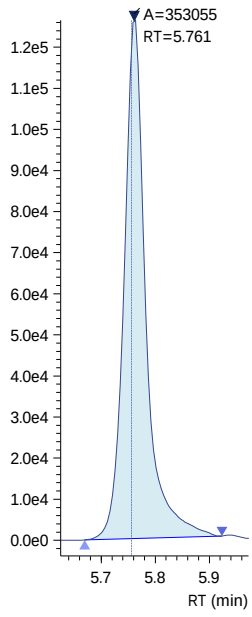
R1 512.00>219.00 (-) 2.71e5


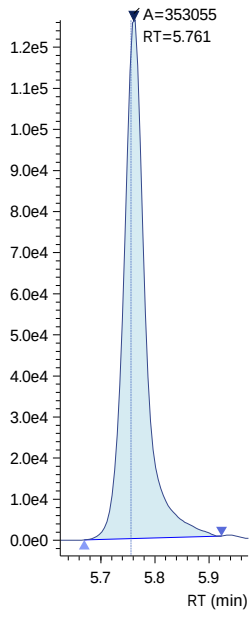
N-MeFOSA-d3
Conc 4.9412
Q 514.90>168.90 (-) 1.18e5


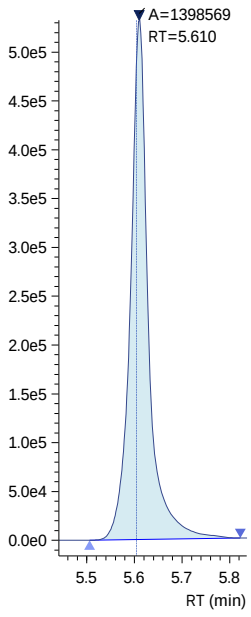
N-MeFOSA-d3_IS
Conc 5.0000
ISTD 514.90>168.90 (-) 1.18e5


N-MeFOSA
Conc 10.0671
R#1 68.40 (62.10)
Q 526.90>169.10 (-) 7.93e4


R1 526.90>219.00 (-) 5.40e4


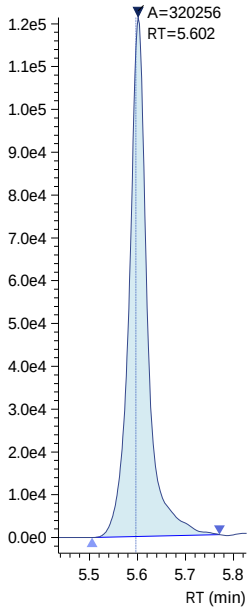
N-EtFOSA-d9
Conc 4.8962
Q 530.90>169.15 (-) 1.27e5


N-EtFOSA-d9_IS
Conc 5.0000
ISTD 530.90>169.15 (-) 1.27e5


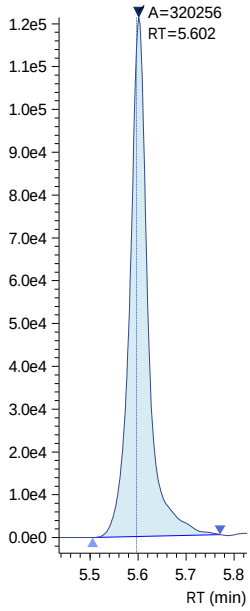
N-MeFOSE
Conc 9.7537
Q 616.00>59.00 (-) 5.33e5


210819_025 (continued)

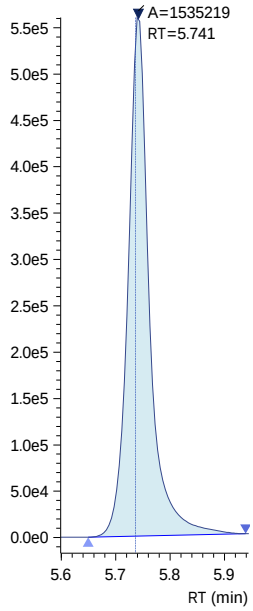
N-MeFOSE-d7
Conc 5.0463
Q 622.70>59.10 (-) 1.21e5



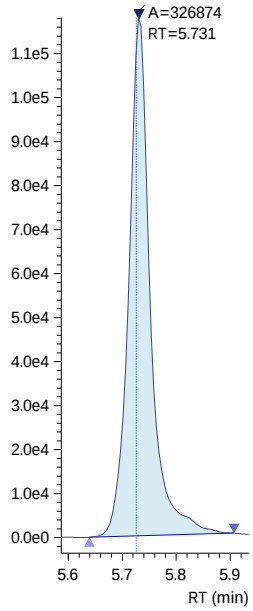
N-MeFOSE-d7_IS
Conc 5.0000
ISTD 622.70>59.10 (-) 1.21e5



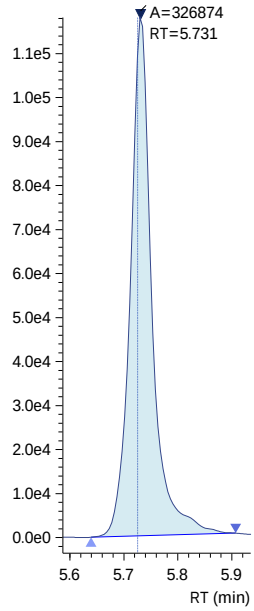
N-EtFOSE
Conc 9.9840
Q 630.00>58.90 (-) 5.61e5



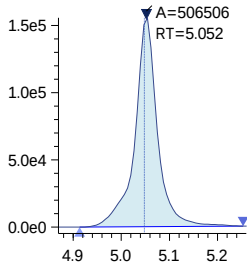
N-EtFOSE-d9
Conc 4.9749
Q 638.70>59.10 (-) 1.18e5



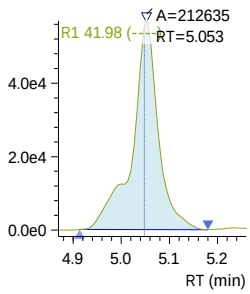
N-EtFOSE-d9_IS
Conc 5.0000
ISTD 638.70>59.10 (-) 1.18e5



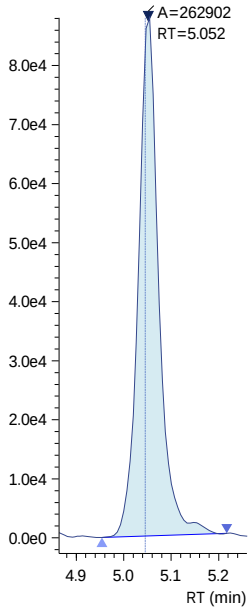
N-MeFOSAA
Conc 9.8639
R#1 41.98 (52.81)
Q 570.20>419.00 (-) 1.56e5



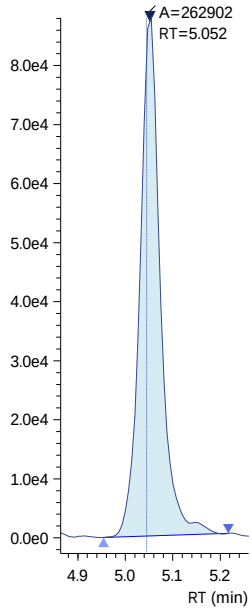
R1 570.20>512.00 (-) 5.69e4



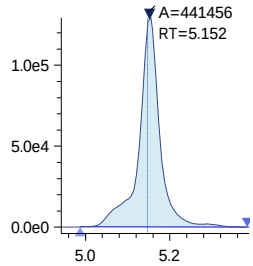
N-MeFOSAA-d3
Conc 5.0701
Q 572.80>419.05 (-) 8.81e4



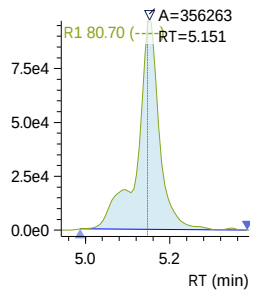
N-MeFOSAA-d3_IS
Conc 5.0000
ISTD 572.80>419.05 (-) 8.81e4



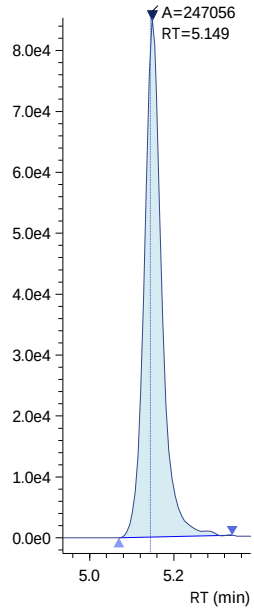
N-EtFOSAA
Conc 10.0472
R#1 80.70 (86.68)
Q 584.20>418.95 (-) 1.29e5



R1 584.20>526.10 (-) 9.72e4

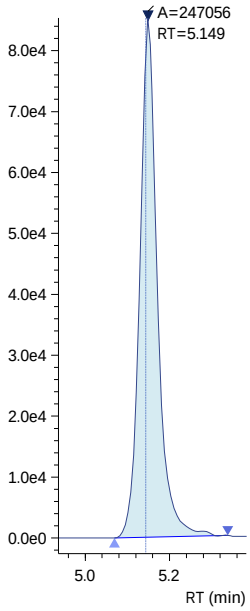


N-EtFOSAA-d5
Conc 5.0965
Q 588.80>419.00 (-) 8.54e4

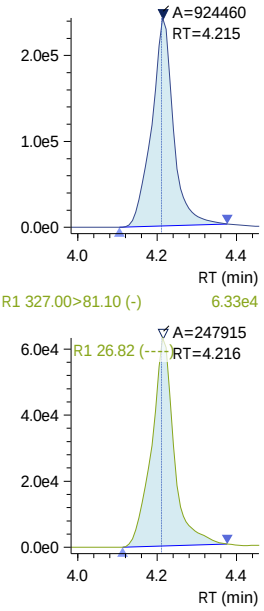


210819_025 (continued)

N-EtFOSAA-d5_IS
Conc 5.0000
ISTD 588.80>419.00 (-) 8.54e4

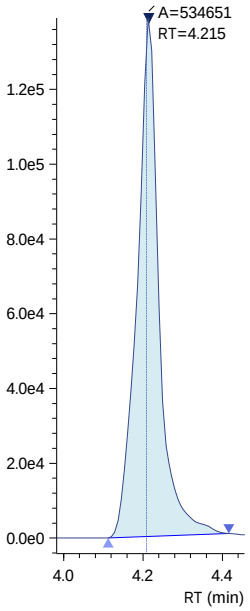


4_2-FTS_1
Conc 8.6306
R#1 26.82 (33.17)
Q 327.00>307.05 (-) 2.44e5

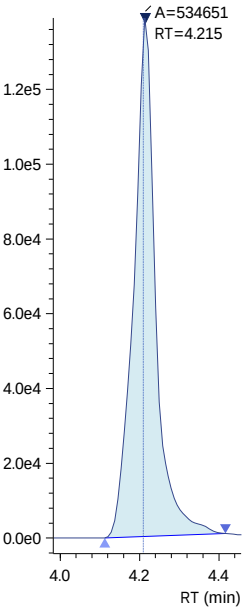


R1 327.00>81.10 (-) 6.33e4

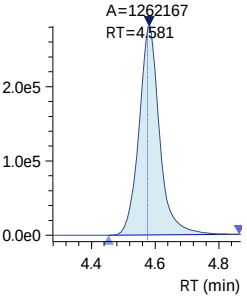
4_2-FTS-13C
Conc 5.0636
Q 328.80>309.05 (-) 1.39e5



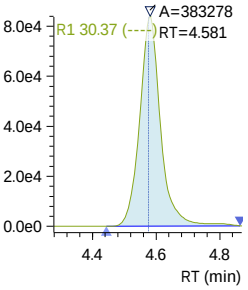
4_2-FTS-13C_IS
Conc 5.0000
ISTD 328.80>309.05 (-) 1.39e5



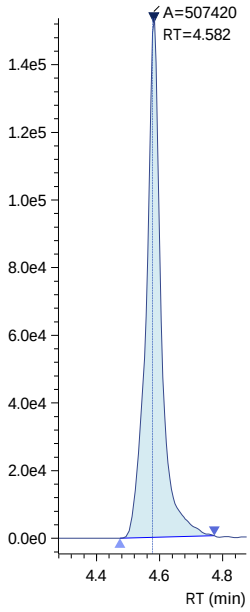
6_2-FTS_1
Conc 8.7963
R#1 30.37 (31.24)
Q 427.00>407.00 (-) 2.82e5



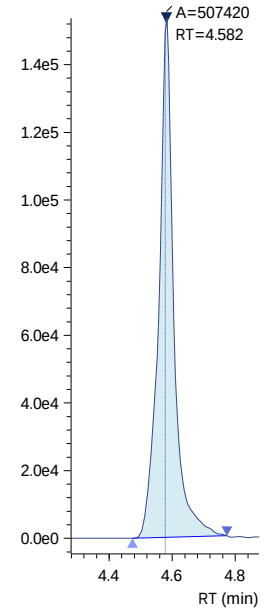
R1 427.00>80.90 (-) 8.37e4



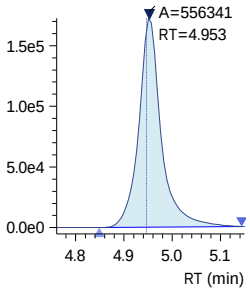
6_2-FTS-13C
Conc 5.0869
Q 428.90>409.00 (-) 1.54e5



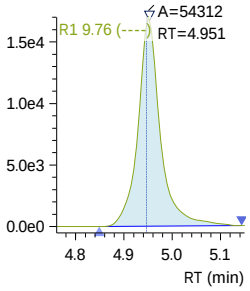
6_2-FTS-13C_IS
Conc 5.0000
ISTD 428.90>409.00 (-) 1.54e5



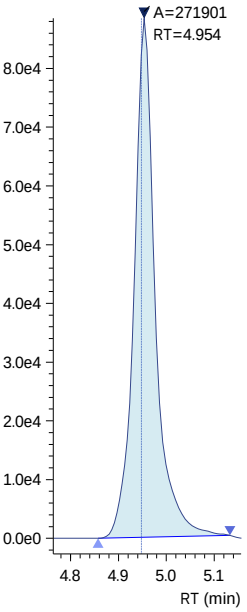
8_2-FTS_1
Conc 8.7970
R#1 9.76 (9.11)
Q 527.10>506.90 (-) 1.73e5



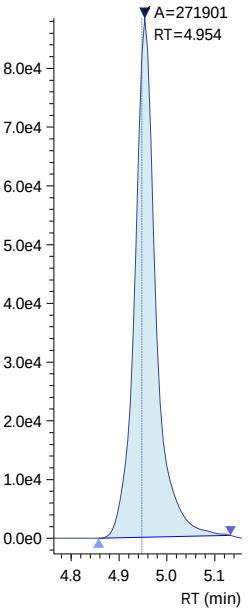
R1 527.20>487.00 (-) 1.70e4



8_2-FTS-13C
Conc 5.1213
Q 528.80>509.00 (-) 8.85e4



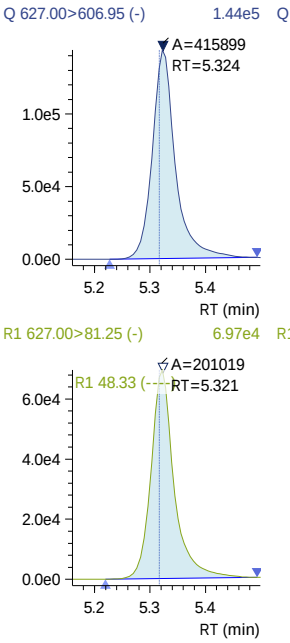
8_2-FTS-13C_IS
Conc 5.0000
ISTD 528.80>509.00 (-) 8.85e4



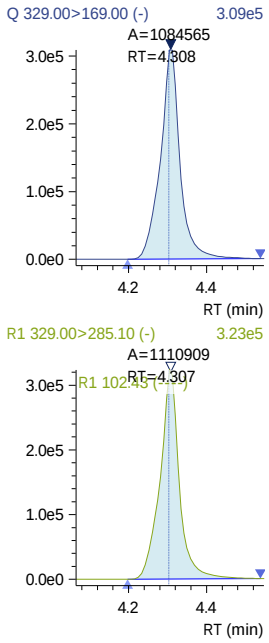
Insight Report
Before Manual Integration
Printed 8/20/2021 09:47:37

210819_025 (continued)

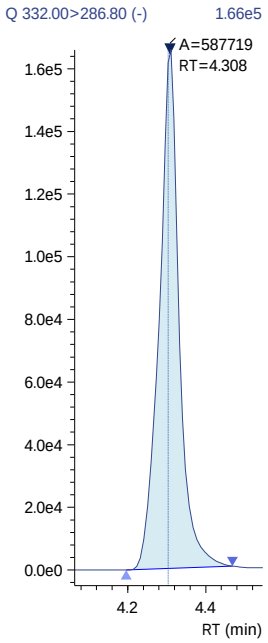
10_2-FtS_1
Conc 9.4452
R#1 48.33 (50.91)



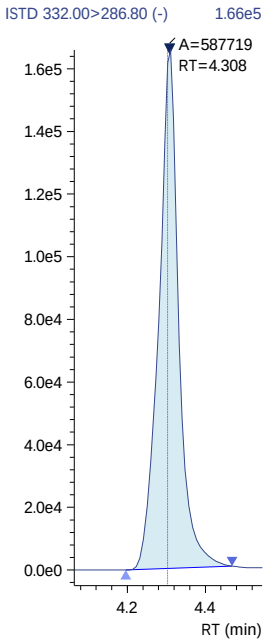
HPFO_DA
Conc 9.9650
R#1 102.43 (109.48)



HFPO_DA-13C
Conc 4.9505



HFPO_DA-13C_IS
Conc 5.0000



Insight Report
Retention Time/Signal:Noise Ratio Confirmation
Printed 8/20/2021 11:18:22

210819_026

Sample ID: CCB
Date Acquired: 8/19/2021 7:42:05 PM
Acquired by: System Administrator
Data File: 210819_026
Vial: 9 | Inj. Volume: 15.0000uL | Tray: 1

Name	m/z	Ref 1 m/z	Found RT	RT Diff	ISTD RT Diff	S/N	Ref 1 S/N	Flag ID
13C7-PFUnDA_IS	570.00>525.00	----	5.131	-0.001	----	28164	----	
PFBS_1	299.00>80.00	298.80>99.00	4.020	-0.013	-0.012	14	8	IRr
PFBS-13C	301.80>80.00	----	4.032	-0.001	-1.099	(INF)	----	
PFBS-13C_IS	301.80>80.00	----	4.032	-0.001	----	(INF)	----	
PFPeS	349.00>99.00	349.00>79.95	----	----	----	----	----	
PFHxS_1	399.00>80.00	399.00>99.00	4.397	-0.017	-0.020	16	10	IRr
PFHxS-18O	402.70>84.05	----	4.417	-0.001	-0.714	(INF)	----	
PFHxS-18O_IS	402.70>84.05	----	4.417	-0.001	----	(INF)	----	
PFHpS_1	449.00>80.15	449.00>99.20	4.587	0.006	0.170	14	4	
PFOS_1	499.00>80.00	499.00>99.00	4.749	-0.003	-0.002	5	2	SN
PFOS-13C	502.80>80.05	----	4.751	-0.001	-0.380	(INF)	----	
PFOS-13C_IS	502.80>80.05	----	4.751	-0.001	----	(INF)	----	
PFNS	549.00>99.00	549.00>79.95	4.981	0.048	0.230	5	(INF)	IRr, SN
PFDS_1	599.00>79.90	599.00>99.10	----	----	----	----	----	
PFBA	213.00>169.10	----	----	----	----	----	----	
PFBA-13C	216.90>172.15	----	3.420	-0.005	-1.711	3779	----	
PFBA-13C_IS	216.90>172.15	----	3.420	-0.005	----	3779	----	
PFPeA	263.05>219.10	----	3.865	-0.114	-0.113	31	----	RTi
PFPeA-13C	267.90>223.00	----	3.978	-0.001	-1.153	9683	----	
PFPeA-13C_IS	267.90>223.00	----	3.978	-0.001	----	9683	----	
PFHxA	313.00>269.00	313.00>119.10	----	----	----	----	----	
PFHxA-13C	314.90>270.10	----	4.235	-0.001	-0.896	58632	----	
PFHxA-13C_IS	314.90>270.10	----	4.235	-0.001	----	58632	----	
PFHpA	362.90>319.00	362.90>169.00	4.423	0.006	0.007	6	6	SN
PFHpA-13C	366.90>322.10	----	4.416	-0.001	-0.715	17047	----	
PFHpA-13C_IS	366.90>322.10	----	4.416	-0.001	----	17047	----	
PFOA	413.00>369.00	413.00>169.10	4.573	-0.015	-0.014	92	24	
PFOA-13C	416.80>372.05	----	4.587	-0.001	-0.544	45446	----	
PFOA-13C_IS	416.80>372.05	----	4.587	-0.001	----	45446	----	
PFNA	463.00>418.90	463.00>219.00	4.763	-0.002	0.000	20	(INF)	IRr
PFNA-13C	467.80>423.00	----	4.763	-0.002	-0.368	229564	----	
PFNA-13C_IS	467.80>423.00	----	4.763	-0.002	----	229564	----	
PFDA	513.00>468.80	513.00>219.10	4.946	-0.003	-0.002	9	(INF)	SN
PFDA-13C	514.80>469.95	----	4.948	-0.001	-0.183	82876	----	
PFDA-13C_IS	514.80>469.95	----	4.948	-0.001	----	82876	----	
PFUnA	563.00>518.90	563.00>219.00	----	----	----	----	----	
PFUnA-13C	564.80>519.95	----	5.132	0.000	0.001	21331	----	
PFUnA-13C_IS	564.80>519.95	----	5.132	0.000	----	21331	----	
PFDoA	613.05>569.00	613.05>169.00	----	----	----	----	----	
PFDoA-13C	614.80>569.95	----	5.310	-0.001	0.179	97978	----	
PFDoA-13C_IS	614.80>569.95	----	5.310	-0.001	----	97978	----	
PFTrDA	663.00>618.90	662.90>169.00	5.470	-0.006	-0.164	(INF)	1	IRr
PFTeDA	713.00>669.00	713.00>169.10	5.634	0.000	0.000	26	(INF)	IRr
PFTeDA-13C	714.70>669.90	----	5.634	0.000	0.503	26611	----	
PFTeDA-13C_IS	714.70>669.90	----	5.634	0.000	----	24361	----	
FOSA	498.20>78.00	498.20>64.10	5.235	0.004	0.004	21	(INF)	IRr
FOSA-13C	506.00>78.05	----	5.231	0.000	0.100	810	----	
FOSA-13C_IS	506.00>78.05	----	5.231	0.000	----	810	----	
N-MeFOSA	512.00>169.10	512.00>219.00	5.626	0.001	0.004	4	4	SN
N-MeFOSA-d3	514.90>168.90	----	5.622	0.000	0.491	762	----	
N-MeFOSA-d3_IS	514.90>168.90	----	5.622	0.000	----	762	----	

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SN - Software-calculated S/N ratio outside criteria due to non-target peaks or drift in noise calculation window. Analyst review of noise levels (excluding non-target peaks) in chromatogram indicates S/N ratio meets criteria.

210819_026 (continued)

(Table continued from previous page)

Name	m/z	Ref 1 m/z	Found RT	RT Diff	ISTD RT Diff	S/N	Ref 1 S/N	Flag ID
N-EtFOSA	526.90>169.10	526.90>219.00	----	----	----	----	----	
N-EtFOSA-d9	530.90>169.15	----	5.756	0.000	0.625	(INF)	----	
N-EtFOSA-d9_IS	530.90>169.15	----	5.756	0.000	----	(INF)	----	
N-MeFOSE	616.00>59.00	----	----	----	----	----	----	
N-MeFOSE-d7	622.70>59.10	----	5.597	0.000	0.466	1688	----	
N-MeFOSE-d7_IS	622.70>59.10	----	5.597	0.000	----	1688	----	
N-EtFOSE	630.00>58.90	----	----	----	----	----	----	
N-EtFOSE-d9	638.70>59.10	----	5.726	0.000	0.595	2846	----	
N-EtFOSE-d9_IS	638.70>59.10	----	5.726	0.000	----	2846	----	
N-MeFOSAA	570.20>419.00	570.20>512.00	----	----	----	----	----	
N-MeFOSAA-d3	572.80>419.05	----	5.044	-0.001	-0.087	(INF)	----	
N-MeFOSAA-d3_IS	572.80>419.05	----	5.044	-0.001	----	(INF)	----	
N-EtFOSAA	584.20>418.95	584.20>526.10	----	----	----	----	----	
N-EtFOSAA-d5	588.80>419.00	----	5.142	-0.002	0.011	3334	----	
N-EtFOSAA-d5_IS	588.80>419.00	----	5.142	-0.002	----	3334	----	
4_2-FTS_1	327.00>307.05	327.00>81.10	4.209	-0.001	0.000	4	(INF)	IRr, SN
4_2-FTS-13C	328.80>309.05	----	4.209	-0.001	-0.922	(INF)	----	
4_2-FTS-13C_IS	328.80>309.05	----	4.209	-0.001	----	(INF)	----	
6_2-FTS_1	427.00>407.00	427.00>80.90	4.577	0.001	0.000	(INF)	2	IRr
6_2-FTS-13C	428.90>409.00	----	4.577	-0.001	-0.554	(INF)	----	
6_2-FTS-13C_IS	428.90>409.00	----	4.577	-0.001	----	(INF)	----	
8_2-FTS_1	527.10>506.90	527.20>487.00	----	----	----	----	----	
8_2-FTS-13C	528.80>509.00	----	4.946	-0.001	-0.185	(INF)	----	
8_2-FTS-13C_IS	528.80>509.00	----	4.946	-0.001	----	(INF)	----	
10_2-FtS_1	627.00>606.95	627.00>81.25	5.313	-0.004	0.367	1	7	IRr, SN
HPFO_DA	329.00>169.00	329.00>285.10	----	----	----	----	----	
HFPO_DA-13C	332.00>286.80	----	4.302	-0.002	-0.829	20522	----	
HFPO_DA-13C_IS	332.00>286.80	----	4.302	-0.002	----	20522	----	

Flag ID key: IRr: Ion Ratio (Relative), RTi: RT Diff (Absolute ISTD), SN: S/N

SN - Software-calculated S/N ratio outside criteria due to non-target peaks or drift in noise calculation window. Analyst review of noise levels (excluding non-target peaks) in chromatogram indicates S/N ratio meets criteria.

Insight Report
Ion Ratio Confirmation
Printed 8/20/2021 11:19:20

210819_026

Sample ID: CCB
Date Acquired: 8/19/2021 7:42:05 PM
Acquired by: System Administrator
Data File: 210819_026
Vial: 9 | Inj. Volume: 15.0000uL | Tray: 1

Name	m/z	Ref 1 m/z	Area	Ref 1 Measured	Ref 1 Actual Ratio	Ref 1 Set Ratio	Comment 1	Flag ID
13C7-PFUnDA_IS	570.00>525.00	----	5055436	----	----	----		
PFBS_1	299.00>80.00	298.80>99.00	403	454	112.66	47.76	23.88-71.64	IRr
PFBS-13C	301.80>80.00	----	486470	----	----	----	0-0	
PFBS-13C_IS	301.80>80.00	----	486470	----	----	----	0-0	
PFPeS	349.00>99.00	349.00>79.95	----	0	0.00	136.08	68.04 -204.13	
PFHxS_1	399.00>80.00	399.00>99.00	1458	2040	139.88	71.26	35.63 -106.89	IRr
PFHxS-18O	402.70>84.05	----	306127	----	----	----	0-0	
PFHxS-18O_IS	402.70>84.05	----	306127	----	----	----	0-0	
PFHpS_1	449.00>80.15	449.00>99.20	1505	557	37.01	53.84	26.92-80.76	
PFOS_1	499.00>80.00	499.00>99.00	506	550	108.70	86.72	43.36 -130.08	SN
PFOS-13C	502.80>80.05	----	430963	----	----	----	0-0	
PFOS-13C_IS	502.80>80.05	----	430963	----	----	----	0-0	
PFNS	549.00>99.00	549.00>79.95	1075	75	6.98	129.18	64.59 -193.78	IRr, SN
PFDS_1	599.00>79.90	599.00>99.10	----	0	0.00	90.77	45.38 -136.15	
PFBA	213.00>169.10	----	----	----	----	----		
PFBA-13C	216.90>172.15	----	1859398	----	----	----		
PFBA-13C_IS	216.90>172.15	----	1859398	----	----	----		
PFPeA	263.05>219.10	----	20696	----	----	----		RTi
PFPeA-13C	267.90>223.00	----	1279908	----	----	----	0-0	
PFPeA-13C_IS	267.90>223.00	----	1279908	----	----	----	0-0	
PFHxA	313.00>269.00	313.00>119.10	----	0	0.00	4.17	2.08-6.25	
PFHxA-13C	314.90>270.10	----	3707571	----	----	----	0-0	
PFHxA-13C_IS	314.90>270.10	----	3707571	----	----	----	0-0	
PFHpA	362.90>319.00	362.90>169.00	6232	2127	34.13	26.04	13.02-39.07	SN
PFHpA-13C	366.90>322.10	----	3817699	----	----	----	0-0	
PFHpA-13C_IS	366.90>322.10	----	3817699	----	----	----	0-0	
PFOA	413.00>369.00	413.00>169.10	27111	7426	27.39	30.35	15.18-45.53	
PFOA-13C	416.80>372.05	----	4127685	----	----	----	0-0	
PFOA-13C_IS	416.80>372.05	----	4127685	----	----	----	0-0	
PFNA	463.00>418.90	463.00>219.00	2713	163	6.00	22.35	11.18-33.53	IRr
PFNA-13C	467.80>423.00	----	3104497	----	----	----	0-0	
PFNA-13C_IS	467.80>423.00	----	3104497	----	----	----	0-0	
PFDA	513.00>468.80	513.00>219.10	2259	514	22.76	18.73	9.36-28.09	SN
PFDA-13C	514.80>469.95	----	2306661	----	----	----	0-0	
PFDA-13C_IS	514.80>469.95	----	2306661	----	----	----	0-0	
PFUnA	563.00>518.90	563.00>219.00	----	0	0.00	11.60	5.8-17.4	
PFUnA-13C	564.80>519.95	----	3267540	----	----	----	0-0	
PFUnA-13C_IS	564.80>519.95	----	3267540	----	----	----	0-0	
PFDoA	613.05>569.00	613.05>169.00	----	0	0.00	15.11	7.55-22.66	
PFDoA-13C	614.80>569.95	----	3432788	----	----	----	0-0	
PFDoA-13C_IS	614.80>569.95	----	3432788	----	----	----	0-0	
PFTrDA	663.00>618.90	662.90>169.00	4193	190	4.53	14.19	7.09-21.28	IRr
PFTeDA	713.00>669.00	713.00>169.10	5792	320	5.52	14.98	7.49-22.46	IRr
PFTeDA-13C	714.70>669.90	----	2281080	----	----	----	0-0	
PFTeDA-13C_IS	714.70>669.90	----	2281080	----	----	----	0-0	
FOSA	498.20>78.00	498.20>64.10	2191	41	1.87	4.89	2.44-7.33	IRr

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Comment 1 field specifies acceptance range for Ref 1 ratio.
IRr - Ion ratio outside criteria. Exceedances for results above the MDL to be "K" flagged in the analytical report.

210819_026 (continued)

(Table continued from previous page)

Name	m/z	Ref 1 m/z	Area	Ref 1 Measured	Ref 1 Actual Ratio	Ref 1 Set Ratio	Comment 1	Flag ID
FOSA-13C	506.00>78.05	----	1450106	----	----	----	0-0	
FOSA-13C_IS	506.00>78.05	----	1450106	----	----	----	0-0	
N-MeFOSA	512.00>169.10	512.00>219.00	909	309	33.99	62.72	31.36-94.08	SN
N-MeFOSA-d3	514.90>168.90	----	321692	----	----	----	0-0	
N-MeFOSA-d3_IS	514.90>168.90	----	321692	----	----	----	0-0	
N-EtFOSA	526.90>169.10	526.90>219.00	----	0	0.00	63.35	31.68-95.03	
N-EtFOSA-d9	530.90>169.15	----	370901	----	----	----	0-0	
N-EtFOSA-d9_IS	530.90>169.15	----	370901	----	----	----	0-0	
N-MeFOSE	616.00>59.00	----	----	----	----	----		
N-MeFOSE-d7	622.70>59.10	----	328281	----	----	----		
N-MeFOSE-d7_IS	622.70>59.10	----	328281	----	----	----		
N-EtFOSE	630.00>58.90	----	----	----	----	----		
N-EtFOSE-d9	638.70>59.10	----	325935	----	----	----	0-0	
N-EtFOSE-d9_IS	638.70>59.10	----	325935	----	----	----	0-0	
N-MeFOSAA	570.20>419.00	570.20>512.00	----	0	0.00	35.26	17.63-52.88	
N-MeFOSAA-d3	572.80>419.05	----	289412	----	----	----	0-0	
N-MeFOSAA-d3 _IS	572.80>419.05	----	289412	----	----	----	0-0	
N-EtFOSAA	584.20>418.95	584.20>526.10	----	0	0.00	77.25	38.62 -115.87	
N-EtFOSAA-d5	588.80>419.00	----	255874	----	----	----	0-0	
N-EtFOSAA-d5_IS	588.80>419.00	----	255874	----	----	----	0-0	
4_2-FTS_1	327.00>307.05	327.00>81.10	51	3539	6990.82	39.85	19.92-59.77	IRr, SN
4_2-FTS-13C	328.80>309.05	----	516480	----	----	----	0-0	
4_2-FTS-13C_IS	328.80>309.05	----	516480	----	----	----	0-0	
6_2-FTS_1	427.00>407.00	427.00>80.90	140	272	194.29	29.95	14.97-44.92	IRr
6_2-FTS-13C	428.90>409.00	----	527433	----	----	----	0-0	
6_2-FTS-13C_IS	428.90>409.00	----	527433	----	----	----	0-0	
8_2-FTS_1	527.10>506.90	527.20>487.00	----	0	0.00	9.42	4.71-14.13	
8_2-FTS-13C	528.80>509.00	----	298415	----	----	----	0-0	
8_2-FTS-13C_IS	528.80>509.00	----	298415	----	----	----	0-0	
10_2-FtS_1	627.00>606.95	627.00>81.25	1	110	11000.00	49.86	24.93-74.78	IRr, SN
HPFO_DA	329.00>169.00	329.00>285.10	----	0	0.00	101.52	50.76 -152.28	
HFPO_DA-13C	332.00>286.80	----	602449	----	----	----		
HFPO_DA-13C_IS	332.00>286.80	----	602449	----	----	----		

Flag ID key: IRr: Ion Ratio (Relative), RTi: RT Diff (Absolute ISTD), SN: S/N

Comment 1 field specifies acceptance range for Ref 1 ratio.
IRr - Ion ratio outside criteria. Exceedances for results above the MDL to be "K" flagged in the analytical report.

Insight Report
Quantitation/Integration
Printed 8/20/2021 11:13:44

210819_026

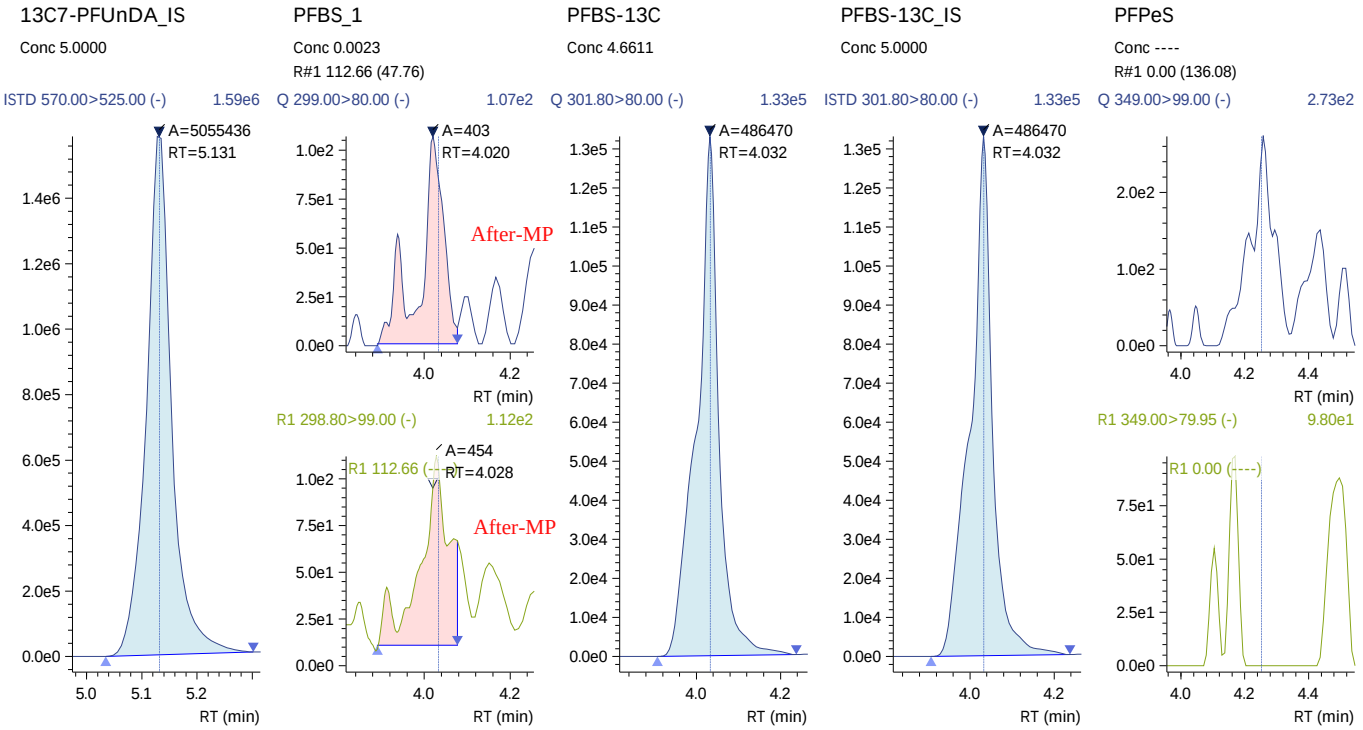
Sample ID: CCB
Date Acquired: 8/19/2021 7:42:05 PM
Acquired by: System Administrator
Data File: 210819_026
Vial: 9 | Inj. Volume: 15.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	ISTD Name	Std. Conc.	Conc.	Unit
13C7-PFUnDA_IS	Auto	5.131	5055436	5055436	----	----	5.0000	ng/mL
PFBS_1	M	4.020	403	486470	PFBS-13C_IS	----	0.0023	ng/mL
PFBS-13C	Auto	4.032	486470	5055436	13C7-PFUnDA_IS	----	4.6611	ng/mL
PFBS-13C_IS	Auto	4.032	486470	486470	----	----	5.0000	ng/mL
PFPeS	ND(W/B)	----	----	486470	PFBS-13C_IS	----	----	ng/mL
PFHxS_1	M	4.397	1458	306127	PFHxS-18O_IS	----	-0.0072	ng/mL
PFHxS-18O	Auto	4.417	306127	5055436	13C7-PFUnDA_IS	----	4.3018	ng/mL
PFHxS-18O_IS	Auto	4.417	306127	306127	----	----	5.0000	ng/mL
PFHpS_1	M	4.587	1505	306127	PFHxS-18O_IS	----	0.0117	ng/mL
PFOS_1	M	4.749	506	430963	PFOS-13C_IS	----	0.0062	ng/mL
PFOS-13C	Auto	4.751	430963	5055436	13C7-PFUnDA_IS	----	4.8727	ng/mL
PFOS-13C_IS	Auto	4.751	430963	430963	----	----	5.0000	ng/mL
PFNS	Auto	4.981	1075	430963	PFOS-13C_IS	----	0.0147	ng/mL
PFDS_1	ND(W/B)	----	----	430963	PFOS-13C_IS	----	----	ng/mL
PFBA	ND(W/B)	----	----	1859398	PFBA-13C_IS	----	----	ng/mL
PFBA-13C	Auto	3.420	1859398	5055436	13C7-PFUnDA_IS	----	4.5033	ng/mL
PFBA-13C_IS	Auto	3.420	1859398	1859398	----	----	5.0000	ng/mL
PFPeA	Auto	3.865	20696	1279908	PFPeA-13C_IS	----	0.0254	ng/mL
PFPeA-13C	Auto	3.978	1279908	5055436	13C7-PFUnDA_IS	----	4.7037	ng/mL
PFPeA-13C_IS	Auto	3.978	1279908	1279908	----	----	5.0000	ng/mL
PFHxA	ND(W/B)	----	----	3707571	PFHxA-13C_IS	----	----	ng/mL
PFHxA-13C	Auto	4.235	3707571	5055436	13C7-PFUnDA_IS	----	4.9486	ng/mL
PFHxA-13C_IS	Auto	4.235	3707571	3707571	----	----	5.0000	ng/mL
PFHpA	M	4.423	6232	3817699	PFHpA-13C_IS	----	0.0075	ng/mL
PFHpA-13C	Auto	4.416	3817699	5055436	13C7-PFUnDA_IS	----	5.0189	ng/mL
PFHpA-13C_IS	Auto	4.416	3817699	3817699	----	----	5.0000	ng/mL
PFOA	MI R1	4.573	27111	4127685	PFOA-13C_IS	----	0.0214	ng/mL
PFOA-13C	Auto	4.587	4127685	5055436	13C7-PFUnDA_IS	----	4.8744	ng/mL
PFOA-13C_IS	Auto	4.587	4127685	4127685	----	----	5.0000	ng/mL
PFNA	M	4.763	2713	3104497	PFNA-13C_IS	----	0.0035	ng/mL
PFNA-13C	Auto	4.763	3104497	5055436	13C7-PFUnDA_IS	----	4.8060	ng/mL
PFNA-13C_IS	Auto	4.763	3104497	3104497	----	----	5.0000	ng/mL
PFDA	M	4.946	2259	2306661	PFDA-13C_IS	----	0.0033	ng/mL
PFDA-13C	Auto	4.948	2306661	5055436	13C7-PFUnDA_IS	----	4.8312	ng/mL
PFDA-13C_IS	Auto	4.948	2306661	2306661	----	----	5.0000	ng/mL
PFUnA	ND(W/B)	----	----	3267540	PFUnA-13C_IS	----	----	ng/mL
PFUnA-13C	Auto	5.132	3267540	5055436	13C7-PFUnDA_IS	----	5.1366	ng/mL
PFUnA-13C_IS	Auto	5.132	3267540	3267540	----	----	5.0000	ng/mL
PFDoA	ND(W/B)	----	----	3432788	PFDoA-13C_IS	----	----	ng/mL
PFDoA-13C	Auto	5.310	3432788	5055436	13C7-PFUnDA_IS	----	4.9263	ng/mL
PFDoA-13C_IS	Auto	5.310	3432788	3432788	----	----	5.0000	ng/mL
PFTrDA	M	5.470	4193	2281080	PFTeDA-13C_IS	----	0.0062	ng/mL
PFTeDA	M	5.634	5792	2281080	PFTeDA-13C_IS	----	0.0113	ng/mL
PFTeDA-13C	Auto	5.634	2281080	5055436	13C7-PFUnDA_IS	----	4.8373	ng/mL
PFTeDA-13C_IS	Auto	5.634	2281080	2281080	----	----	5.0000	ng/mL
FOSA	M	5.235	2191	1450106	FOSA-13C_IS	----	0.0059	ng/mL
FOSA-13C	Auto	5.231	1450106	5055436	13C7-PFUnDA_IS	----	4.8288	ng/mL
FOSA-13C_IS	Auto	5.231	1450106	1450106	----	----	5.0000	ng/mL
N-MeFOSA	M	5.626	909	321692	N-MeFOSA-d3_IS	----	0.0075	ng/mL
N-MeFOSA-d3	Auto	5.622	321692	5055436	13C7-PFUnDA_IS	----	4.6070	ng/mL
N-MeFOSA-d3_IS	Auto	5.622	321692	321692	----	----	5.0000	ng/mL
N-EtFOSA	ND(W/B)	----	----	370901	N-EtFOSA-d9_IS	----	----	ng/mL
N-EtFOSA-d9	Auto	5.756	370901	5055436	13C7-PFUnDA_IS	----	4.6750	ng/mL
N-EtFOSA-d9_IS	Auto	5.756	370901	370901	----	----	5.0000	ng/mL

210819_026 (continued)

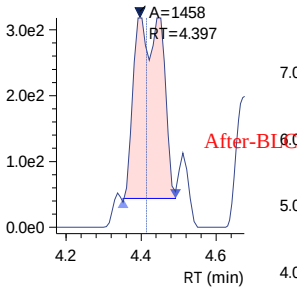
(Table continued from previous page)

Name	Mode ID	Found RT	Area	ISTD Area	ISTD Name	Std. Conc.	Conc.	Unit
N-MeFOSE	ND(W/B)	----	----	328281	N-MeFOSE-d7_IS	----	----	ng/mL
N-MeFOSE-d7	Auto	5.597	328281	5055436	13C7-PFUnDA_IS	----	4.7013	ng/mL
N-MeFOSE-d7_IS	Auto	5.597	328281	328281	----	----	5.0000	ng/mL
N-EtFOSE	ND(W/B)	----	----	325935	N-EtFOSE-d9_IS	----	----	ng/mL
N-EtFOSE-d9	Auto	5.726	325935	5055436	13C7-PFUnDA_IS	----	4.5085	ng/mL
N-EtFOSE-d9_IS	Auto	5.726	325935	325935	----	----	5.0000	ng/mL
N-MeFOSAA	ND(W/B)	----	----	289412	N-MeFOSAA-d3_IS	----	----	ng/mL
N-MeFOSAA-d3	Auto	5.044	289412	5055436	13C7-PFUnDA_IS	----	5.0819	ng/mL
N-MeFOSAA-d3_IS	Auto	5.044	289412	289412	----	----	5.0000	ng/mL
N-EtFOSAA	ND(W/B)	----	----	255874	N-EtFOSAA-d5_IS	----	----	ng/mL
N-EtFOSAA-d5	Auto	5.142	255874	5055436	13C7-PFUnDA_IS	----	4.8262	ng/mL
N-EtFOSAA-d5_IS	Auto	5.142	255874	255874	----	----	5.0000	ng/mL
4_2-FTS_1	M	4.209	51	516480	4_2-FTS-13C_IS	----	0.0005	ng/mL
4_2-FTS-13C	Auto	4.209	516480	5055436	13C7-PFUnDA_IS	----	4.4457	ng/mL
4_2-FTS-13C_IS	Auto	4.209	516480	516480	----	----	5.0000	ng/mL
6_2-FTS_1	M	4.577	140	527433	6_2-FTS-13C_IS	----	0.0010	ng/mL
6_2-FTS-13C	Auto	4.577	527433	5055436	13C7-PFUnDA_IS	----	4.8057	ng/mL
6_2-FTS-13C_IS	Auto	4.577	527433	527433	----	----	5.0000	ng/mL
8_2-FTS_1	ND(W/B)	----	----	298415	8_2-FTS-13C_IS	----	----	ng/mL
8_2-FTS-13C	Auto	4.946	298415	5055436	13C7-PFUnDA_IS	----	5.1085	ng/mL
8_2-FTS-13C_IS	Auto	4.946	298415	298415	----	----	5.0000	ng/mL
10_2-FtS_1	M	5.313	1	298415	8_2-FTS-13C_IS	----	0.0000	ng/mL
HPFO_DA	ND(W/B)	----	----	602449	HFPO_DA-13C_IS	----	----	ng/mL
HFPO_DA-13C	Auto	4.302	602449	5055436	13C7-PFUnDA_IS	----	4.6121	ng/mL
HFPO_DA-13C_IS	Auto	4.302	602449	602449	----	----	5.0000	ng/mL

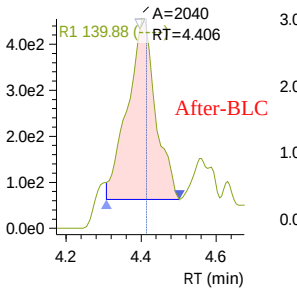


210819_026 (continued)

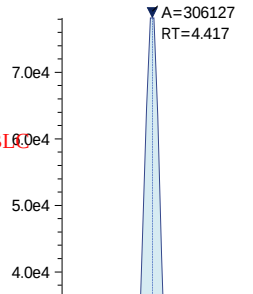
PFHxS_1
Conc -0.0072
R#1 139.88 (71.26)
Q 399.00>80.00 (-) 3.18e2



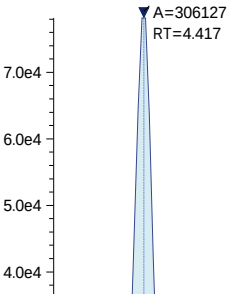
R1 399.00>99.00 (-) 4.55e2



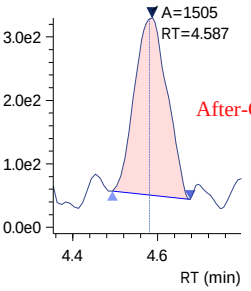
PFHxS-18O
Conc 4.3018
Q 402.70>84.05 (-) 7.82e4



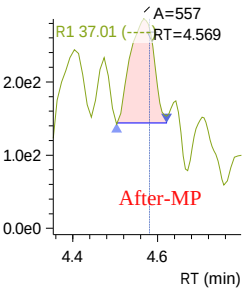
PFHxS-18O_IS
Conc 5.0000
ISTD 402.70>84.05 (-) 7.82e4



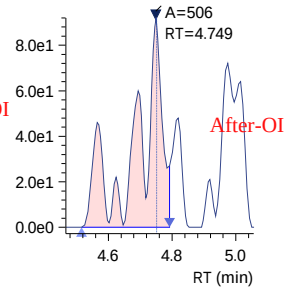
PFHpS_1
Conc 0.0117
R#1 37.01 (53.84)
Q 449.00>80.15 (-) 3.30e2



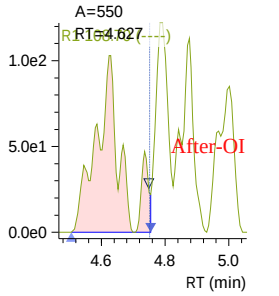
R1 449.00>99.20 (-) 2.86e2



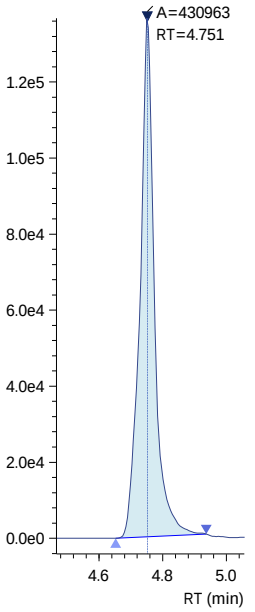
PFOS_1
Conc 0.0062
R#1 108.70 (86.72)
Q 499.00>80.00 (-) 9.20e1



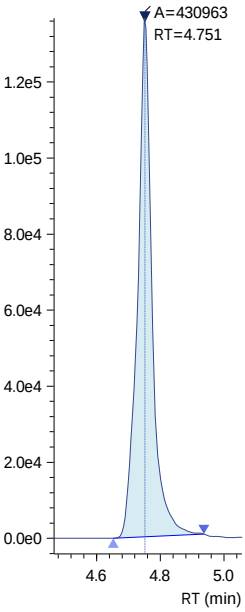
R1 499.00>99.00 (-) 1.22e2



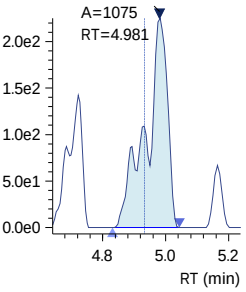
PFOS-13C
Conc 4.8727
Q 502.80>80.05 (-) 1.37e5



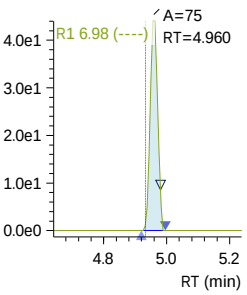
PFOS-13C_IS
Conc 5.0000
ISTD 502.80>80.05 (-) 1.37e5



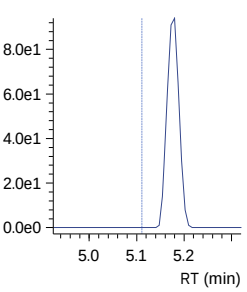
PFNS
Conc 0.0147
R#1 6.98 (129.18)
Q 549.00>99.00 (-) 2.25e2



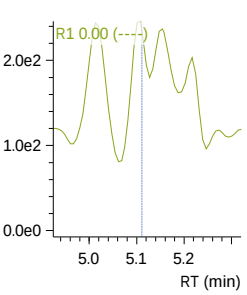
R1 549.00>79.95 (-) 4.40e1



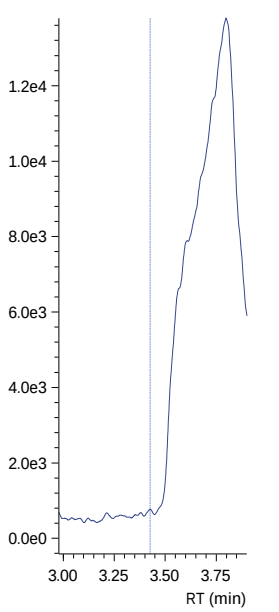
PFDS_1
Conc ----
R#1 0.00 (90.77)
Q 599.00>79.90 (-) 9.40e1



R1 599.00>99.10 (-) 2.46e2

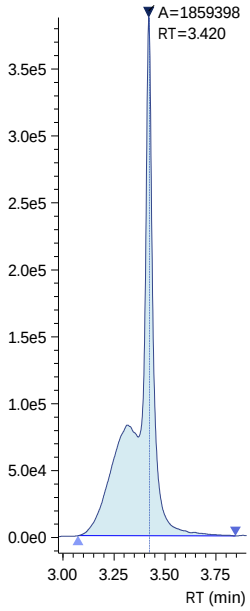


PFBA
Conc ----
Q 213.00>169.10 (-) 1.38e4



210819_026 (continued)

PFBA-13C
Conc 4.5033
Q 216.90>172.15 (-) 3.88e5



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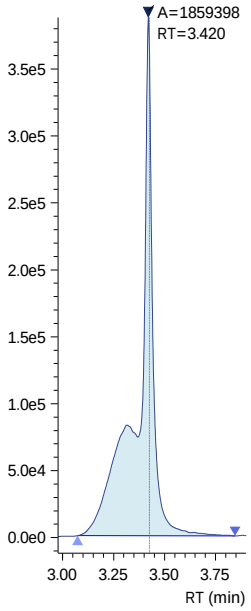
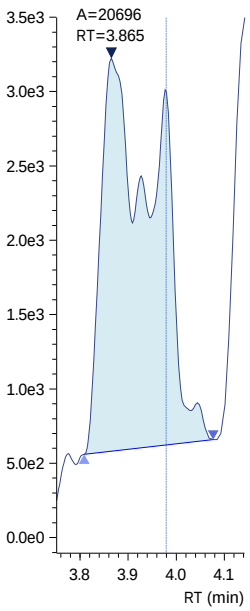
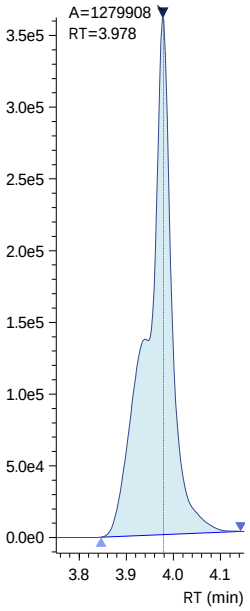
Conc 5.0000
ISTD 216.90>172.15 (-) 3.88e5



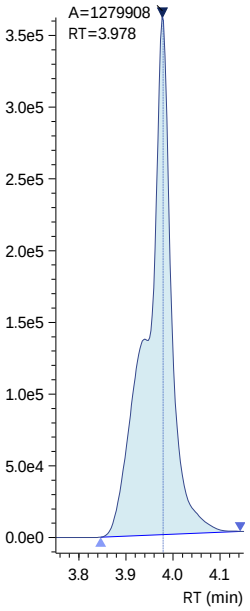
PFPeA
Conc 0.0254
Q 263.05>219.10 (-) 3.50e3



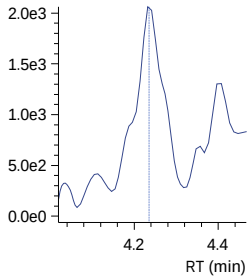
PFPeA-13C
Conc 4.7037
Q 267.90>223.00 (-) 3.63e5



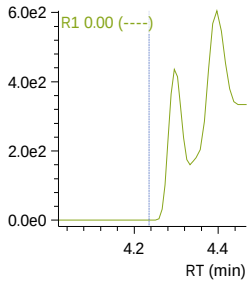
PFPeA-13C_IS
Conc 5.0000
ISTD 267.90>223.00 (-) 3.63e5



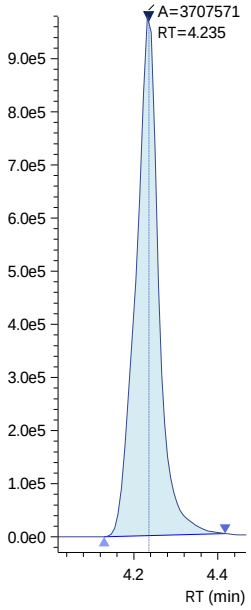
PFHxA
Conc ----
R#1 0.00 (4.17)
Q 313.00>269.00 (-) 2.06e3



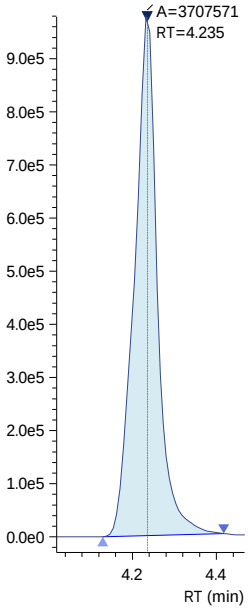
R1 313.00>119.10 (-) 6.05e2



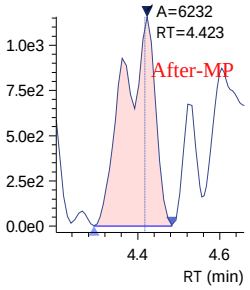
PFHxA-13C
Conc 4.9486
Q 314.90>270.10 (-) 9.79e5



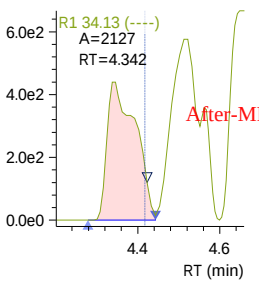
PFHxA-13C_IS
Conc 5.0000
ISTD 314.90>270.10 (-) 9.79e5



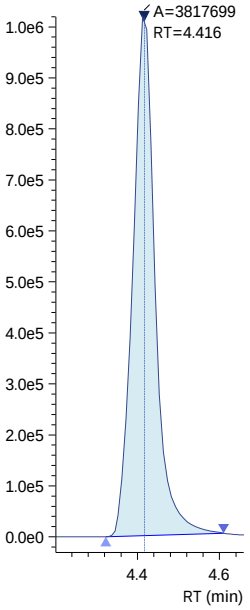
PFHpA
Conc 0.0075
R#1 34.13 (26.04)
Q 362.90>319.00 (-) 1.16e3



R1 362.90>169.00 (-) 6.67e2

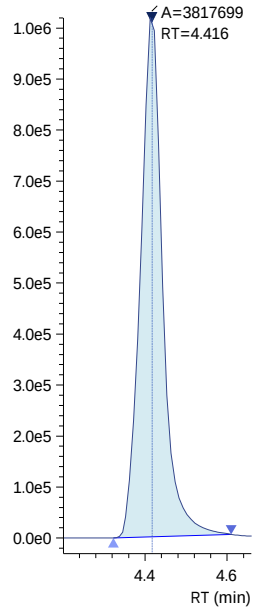


PFHpA-13C
Conc 5.0189
Q 366.90>322.10 (-) 1.02e6

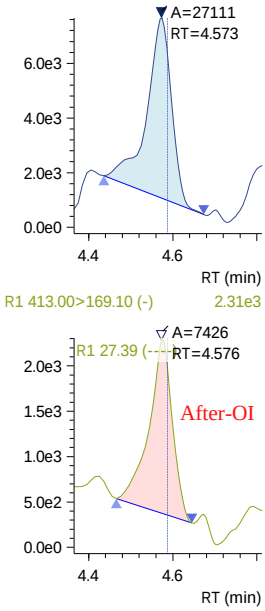


210819_026 (continued)

PFHpA-13C_IS
Conc 5.0000
ISTD 366.90>322.10 (-) 1.02e6

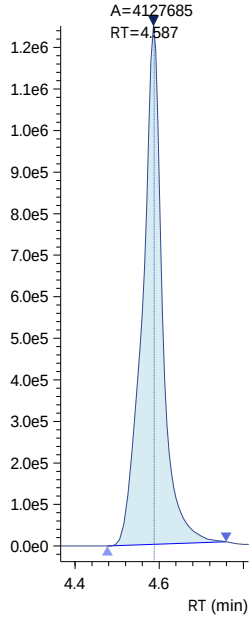


PFOA
Conc 0.0214
R#1 27.39 (30.35)
Q 413.00>369.00 (-) 7.66e3

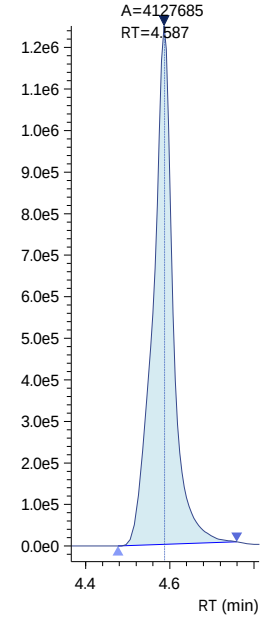


R1 413.00>169.10 (-) 2.31e3

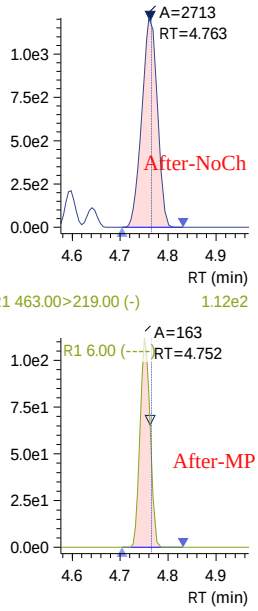
PFOA-13C
Conc 4.8744
Q 416.80>372.05 (-) 1.25e6



PFOA-13C_IS
Conc 5.0000
ISTD 416.80>372.05 (-) 1.25e6

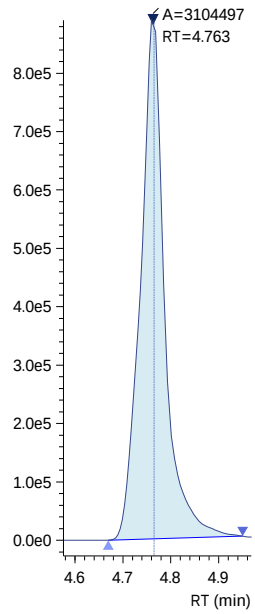


PFNA
Conc 0.0035
R#1 6.00 (22.35)
Q 463.00>418.90 (-) 1.21e3

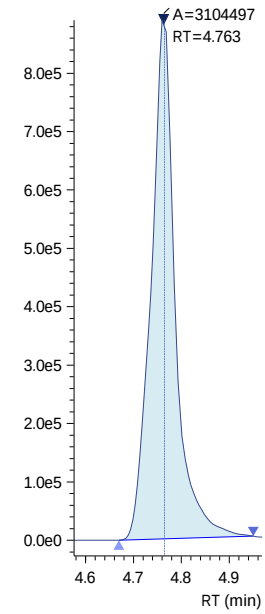


R1 463.00>219.00 (-) 1.12e2

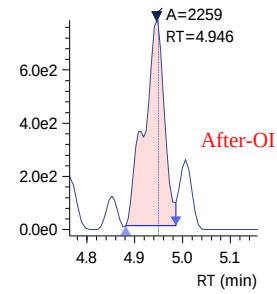
PFNA-13C
Conc 4.8060
Q 467.80>423.00 (-) 8.91e5



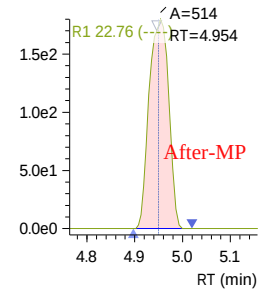
PFNA-13C_IS
Conc 5.0000
ISTD 467.80>423.00 (-) 8.91e5



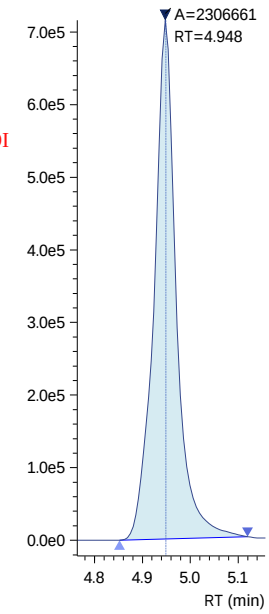
PFDA
Conc 0.0033
R#1 22.76 (18.73)
Q 513.00>468.80 (-) 7.87e2



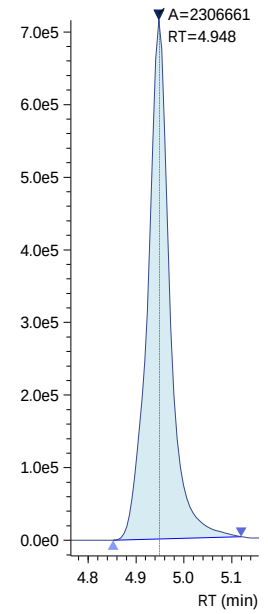
R1 513.00>219.10 (-) 1.80e2



PFDA-13C
Conc 4.8312
Q 514.80>469.95 (-) 7.16e5

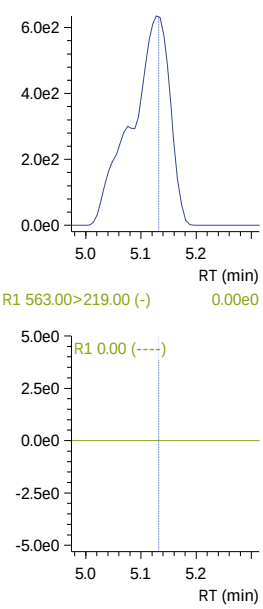


PFDA-13C_IS
Conc 5.0000
ISTD 514.80>469.95 (-) 7.16e5

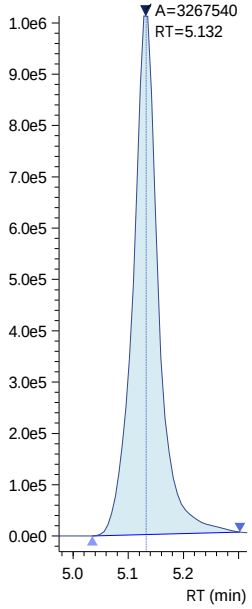


210819_026 (continued)

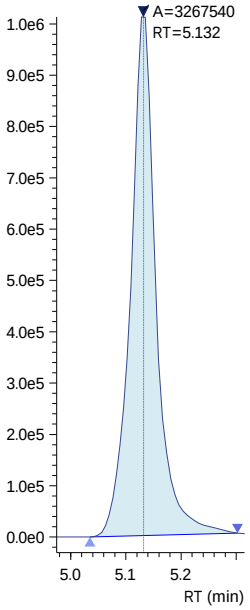
PFUnA
Conc ----
R#1 0.00 (11.60)
Q 563.00>518.90 (-) 6.35e2
R1 563.00>219.00 (-) 0.00e0



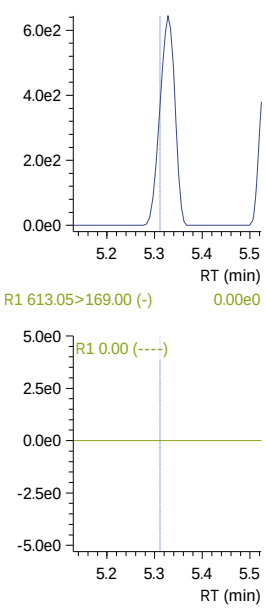
PFUnA-13C
Conc 5.1366
Q 564.80>519.95 (-) 1.01e6



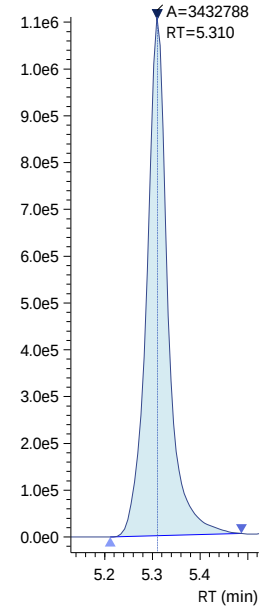
PFUnA-13C_IS
Conc 5.0000
ISTD 564.80>519.95 (-) 1.01e6



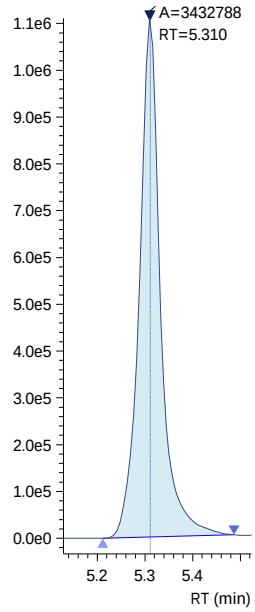
PFDoA
Conc ----
R#1 0.00 (15.11)
Q 613.05>569.00 (-) 6.44e2
R1 613.05>169.00 (-) 0.00e0



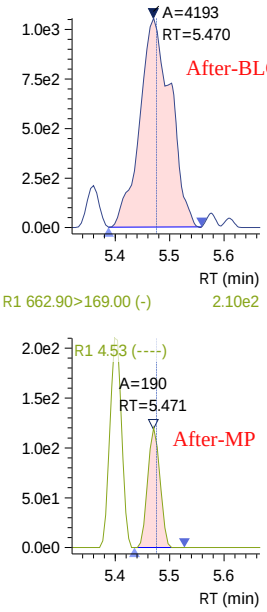
PFDoA-13C
Conc 4.9263
Q 614.80>569.95 (-) 1.11e6



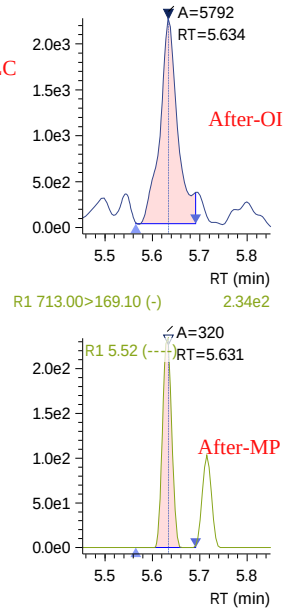
PFDoA-13C_IS
Conc 5.0000
ISTD 614.80>569.95 (-) 1.11e6



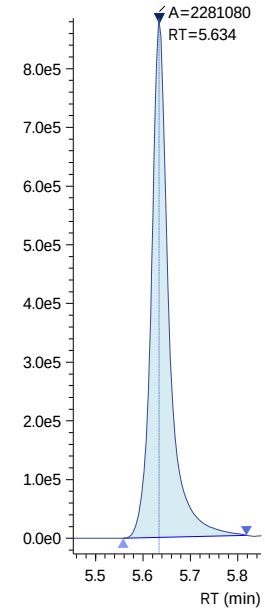
PFTrDA
Conc 0.0062
R#1 4.53 (14.19)
Q 663.00>618.90 (-) 1.06e3
R1 662.90>169.00 (-) 2.10e2



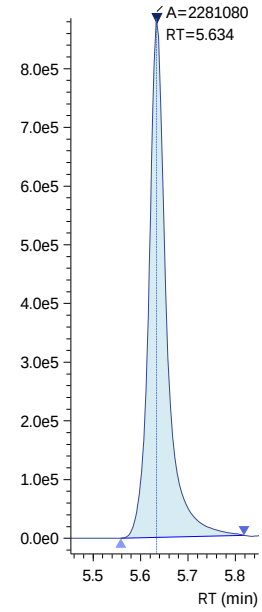
PFTeDA
Conc 0.0113
R#1 5.52 (14.98)
Q 713.00>669.00 (-) 2.28e3
R1 713.00>169.10 (-) 2.34e2



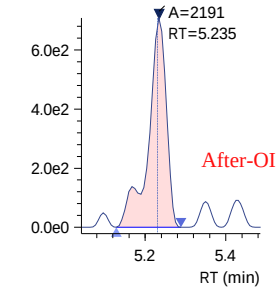
PFTeDA-13C
Conc 4.8373
Q 714.70>669.90 (-) 8.86e5

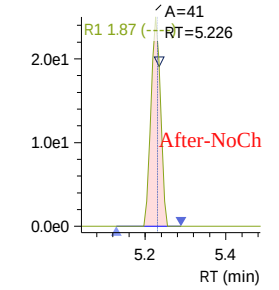


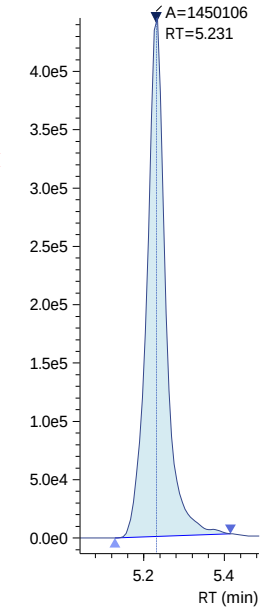
PFTeDA-13C_IS
Conc 5.0000
ISTD 714.70>669.90 (-) 8.86e5

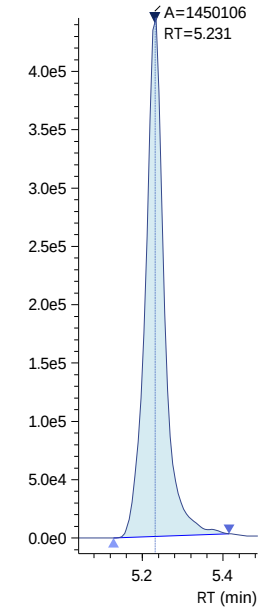


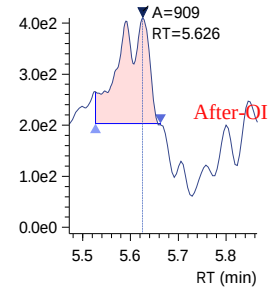
210819_026 (continued)

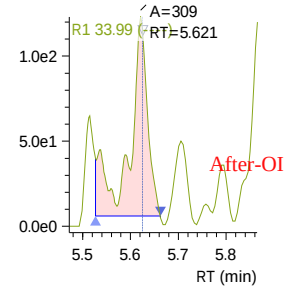
FOSA
Conc 0.0059
R#1 1.87 (4.89)
Q 498.20>78.00 (-) 7.08e2


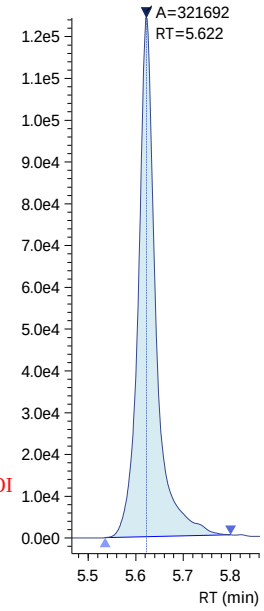
R1 498.20>64.10 (-) 2.50e1


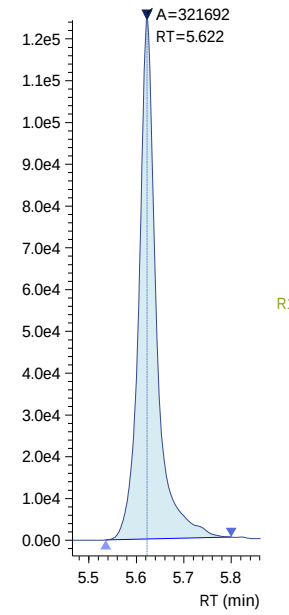
FOSA-13C
Conc 4.8288
Q 506.00>78.05 (-) 4.46e5


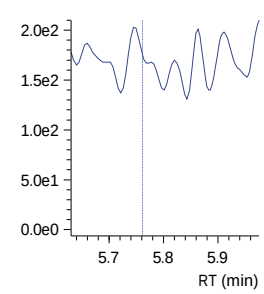
FOSA-13C_IS
Conc 5.0000
ISTD 506.00>78.05 (-) 4.46e5


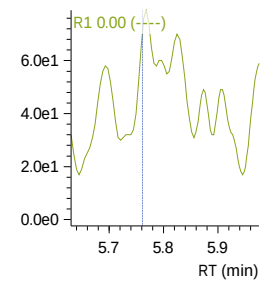
N-MeFOSA
Conc 0.0075
R#1 33.99 (62.72)
Q 512.00>169.10 (-) 4.10e2


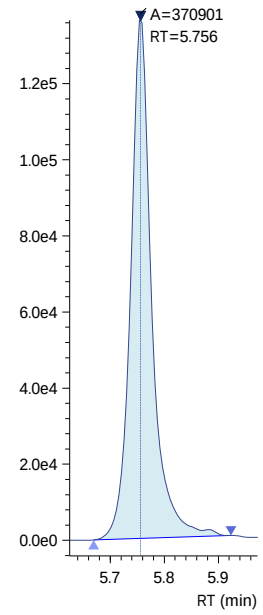
R1 512.00>219.00 (-) 1.23e2


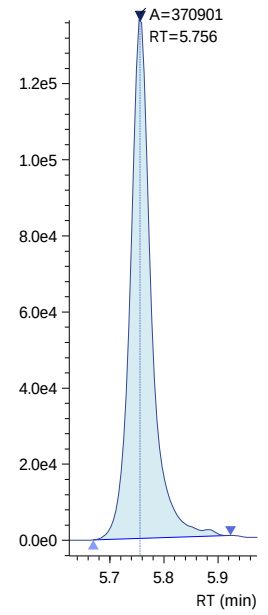
N-MeFOSA-d3
Conc 4.6070
Q 514.90>168.90 (-) 1.24e5


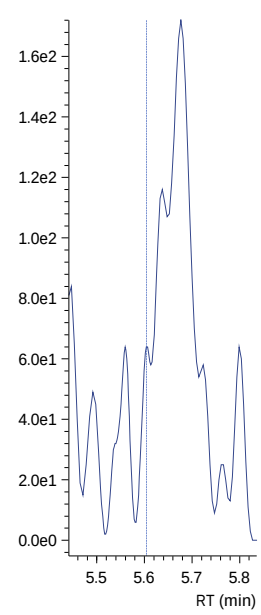
N-MeFOSA-d3_IS
Conc 5.0000
ISTD 514.90>168.90 (-) 1.24e5


N-EtFOSA
Conc ----
R#1 0.00 (63.35)
Q 526.90>169.10 (-) 2.10e2


R1 526.90>219.00 (-) 7.90e1


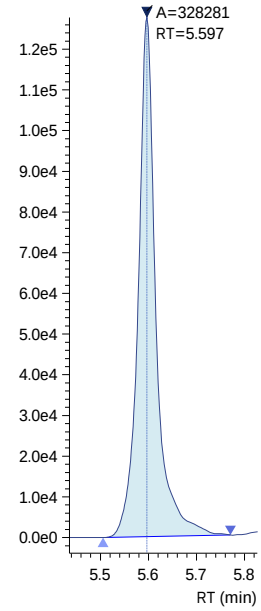
N-EtFOSA-d9
Conc 4.6750
Q 530.90>169.15 (-) 1.37e5


N-EtFOSA-d9_IS
Conc 5.0000
ISTD 530.90>169.15 (-) 1.37e5


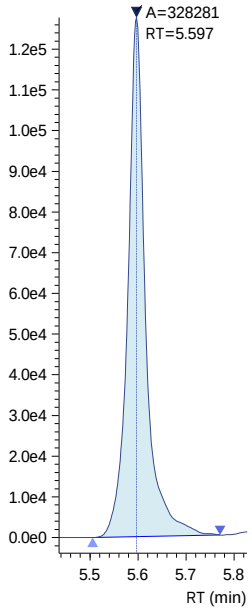
N-MeFOSE
Conc ----
Q 616.00>59.00 (-) 1.72e2


210819_026 (continued)

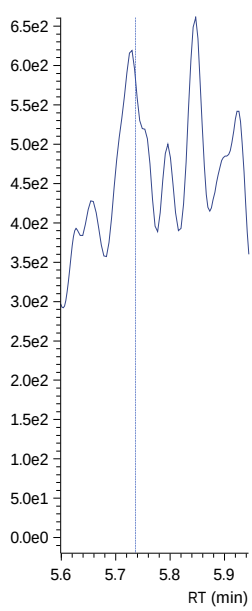
N-MeFOSE-d7
Conc 4.7013
Q 622.70>59.10 (-) 1.28e5



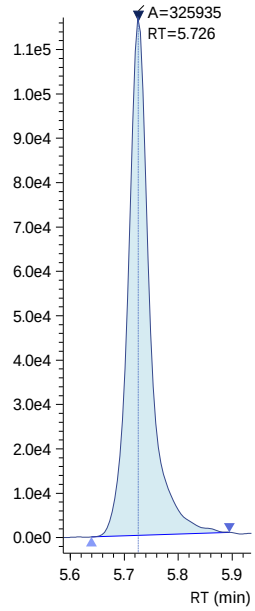
N-MeFOSE-d7_IS
Conc 5.0000
ISTD 622.70>59.10 (-) 1.28e5



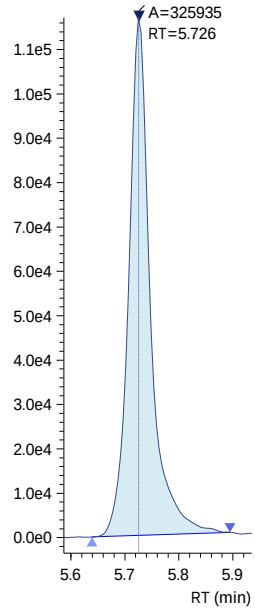
N-EtFOSE
Conc ----
Q 630.00>58.90 (-) 6.61e2



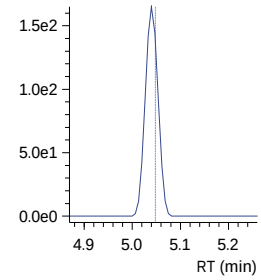
N-EtFOSE-d9
Conc 4.5085
Q 638.70>59.10 (-) 1.17e5



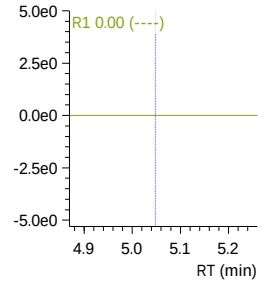
N-EtFOSE-d9_IS
Conc 5.0000
ISTD 638.70>59.10 (-) 1.17e5



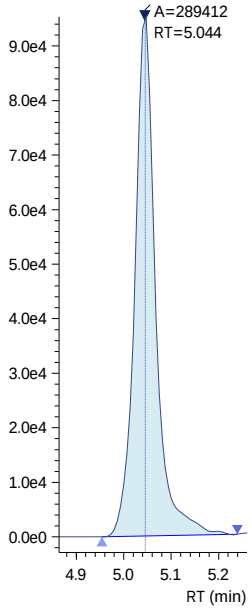
N-MeFOSAA
Conc ----
R#1 0.00 (35.26)
Q 570.20>419.00 (-) 1.65e2



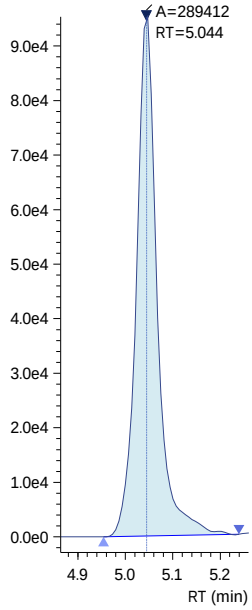
R1 570.20>512.00 (-) 0.00e0



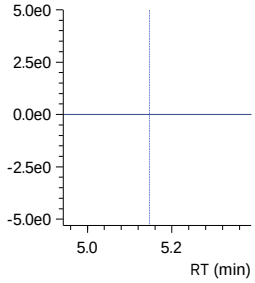
N-MeFOSAA-d3
Conc 5.0819
Q 572.80>419.05 (-) 9.54e4



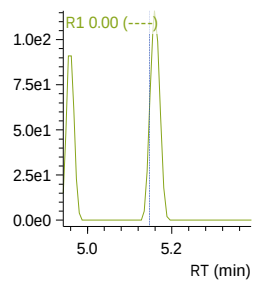
N-MeFOSAA-d3_IS
Conc 5.0000
ISTD 572.80>419.05 (-) 9.54e4



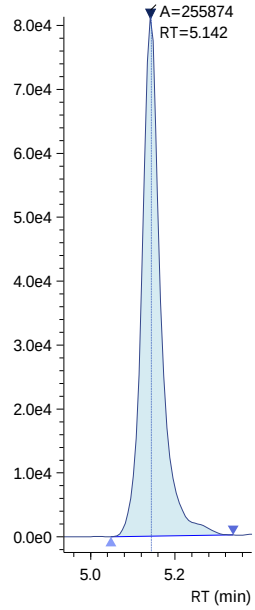
N-EtFOSAA
Conc ----
R#1 0.00 (77.25)
Q 584.20>418.95 (-) 0.00e0



R1 584.20>526.10 (-) 1.16e2

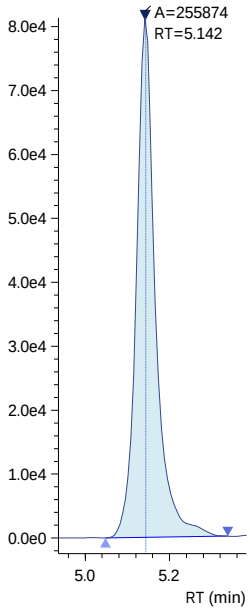


N-EtFOSAA-d5
Conc 4.8262
Q 588.80>419.00 (-) 8.14e4

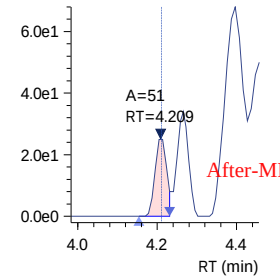


210819_026 (continued)

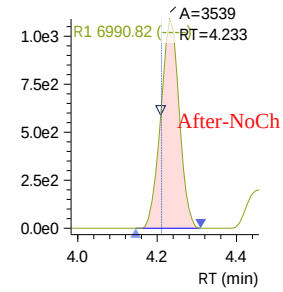
N-EtFOSAA-d5_IS
Conc 5.0000
ISTD 588.80>419.00 (-) 8.14e4



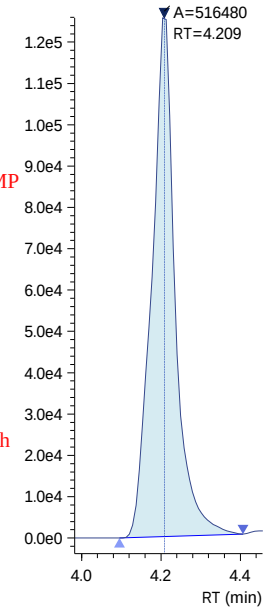
4_2-FTS_1
Conc 0.0005
R#1 6990.82 (39.85)
Q 327.00>307.05 (-) 6.80e1



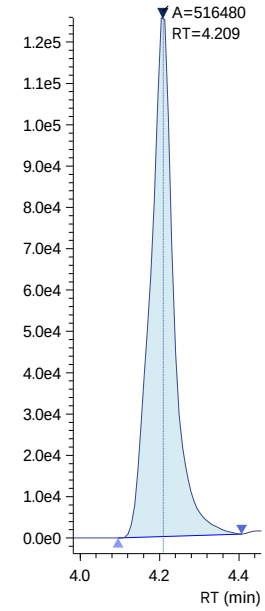
R1 327.00>81.10 (-) 1.09e3



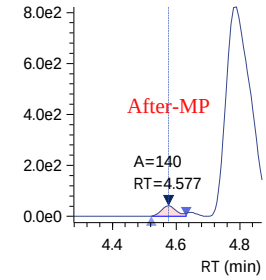
4_2-FTS-13C
Conc 4.4457
Q 328.80>309.05 (-) 1.26e5



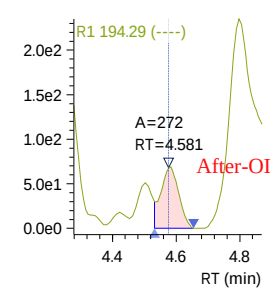
4_2-FTS-13C_IS
Conc 5.0000
ISTD 328.80>309.05 (-) 1.26e5



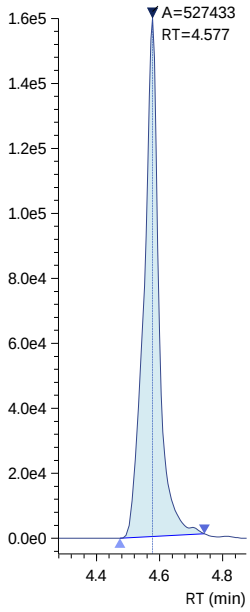
6_2-FTS_1
Conc 0.0010
R#1 194.29 (29.95)
Q 427.00>407.00 (-) 8.22e2



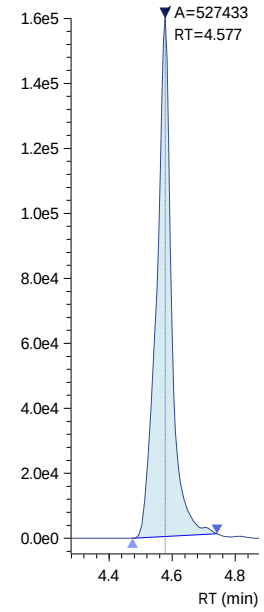
R1 427.00>80.90 (-) 2.35e2



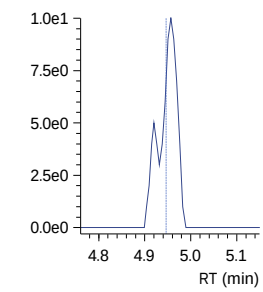
6_2-FTS-13C
Conc 4.8057
Q 428.90>409.00 (-) 1.60e5



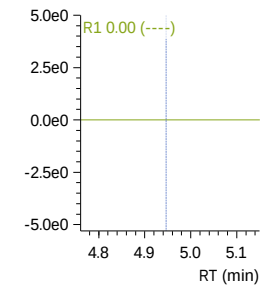
6_2-FTS-13C_IS
Conc 5.0000
ISTD 428.90>409.00 (-) 1.60e5



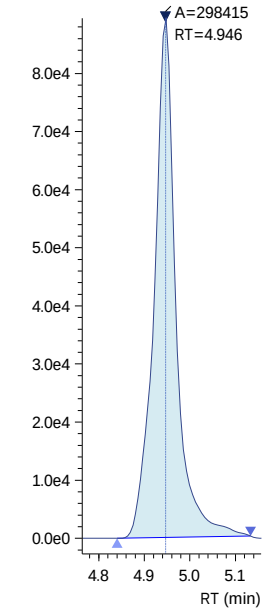
8_2-FTS_1
Conc ----
R#1 0.00 (9.42)
Q 527.10>506.90 (-) 1.00e1



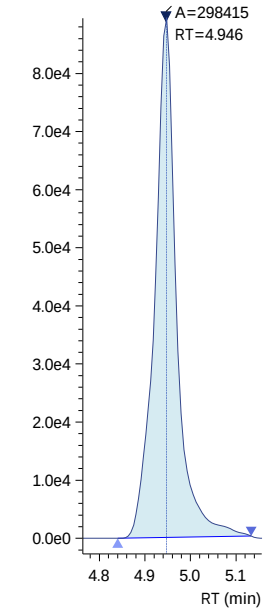
R1 527.20>487.00 (-) 0.00e0



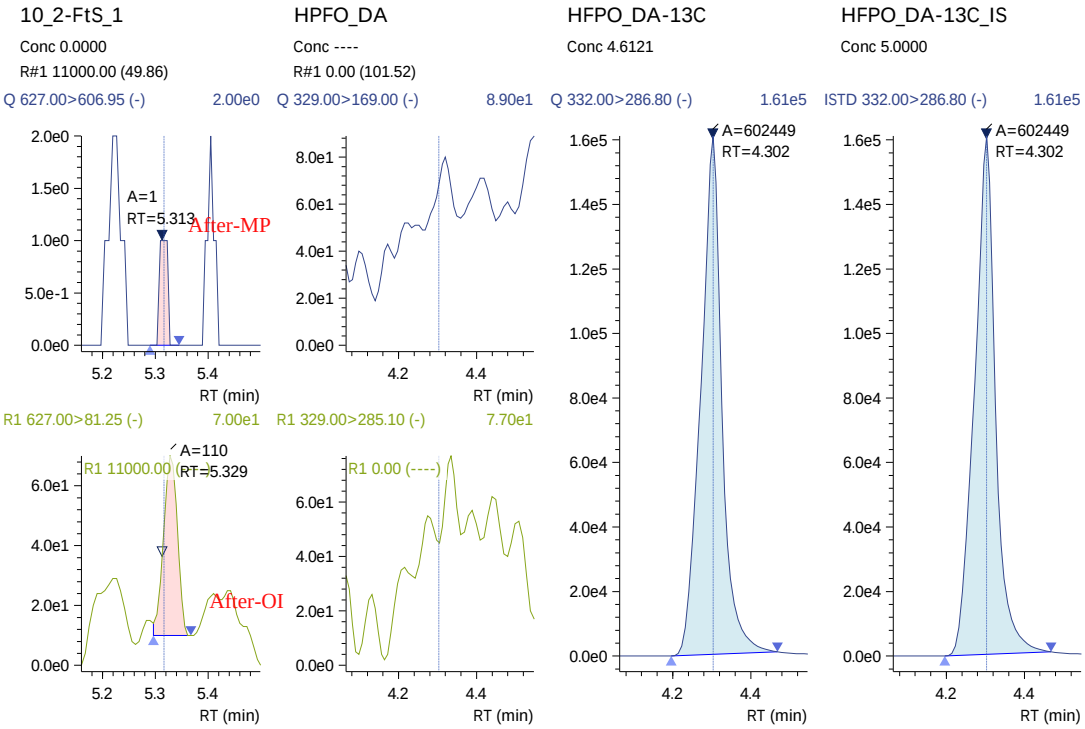
8_2-FTS-13C
Conc 5.1085
Q 528.80>509.00 (-) 8.95e4



8_2-FTS-13C_IS
Conc 5.0000
ISTD 528.80>509.00 (-) 8.95e4



210819_026 (continued)



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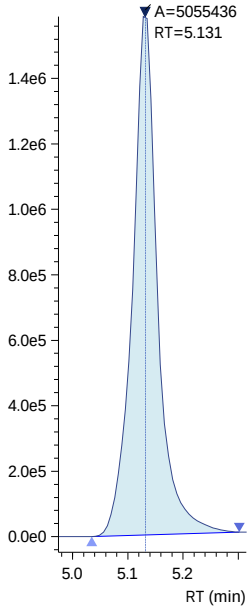
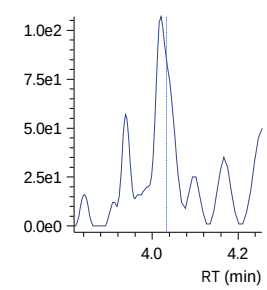
210819_026

Sample ID: CCB
Date Acquired: 8/19/2021 7:42:05 PM
Acquired by: System Administrator
Data File: 210819_026
Vial: 9 | Inj. Volume: 15.0000uL | Tray: 1

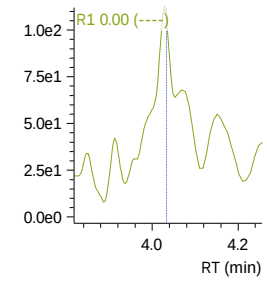
13C7-PFUnDA_IS
Conc 5.0000
ISTD 570.00>525.00 (-) 1.59e6



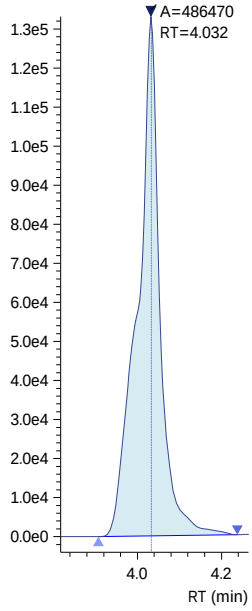
PFBS_1
Conc ----
R#1 0.00 (48.11)
Q 299.00>80.00 (-) 1.07e2



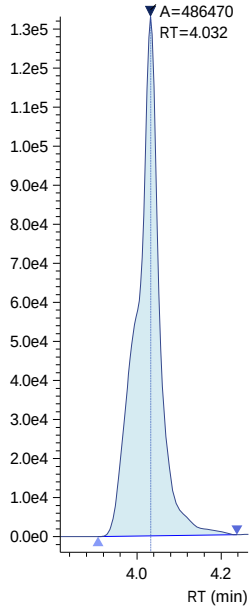
R1 298.80>99.00 (-) 1.12e2



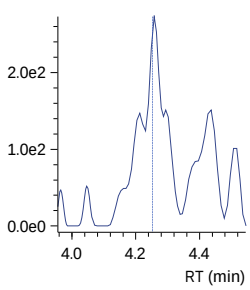
PFBS-13C
Conc 4.6641
Q 301.80>80.00 (-) 1.33e5



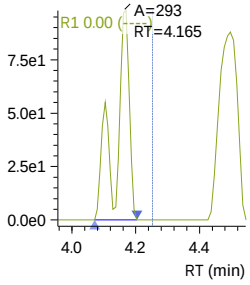
PFBS-13C_IS
Conc 5.0000
ISTD 301.80>80.00 (-) 1.33e5



PFPeS
Conc ----
R#1 0.00 (149.27)
Q 349.00>99.00 (-) 2.73e2



R1 349.00>79.95 (-) 9.80e1



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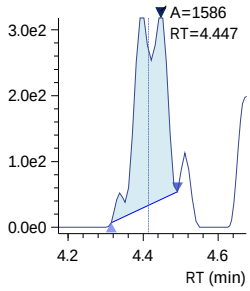
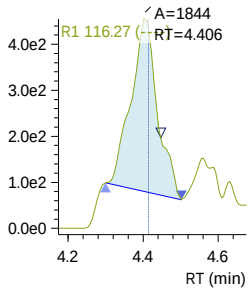
210819_026 (continued)

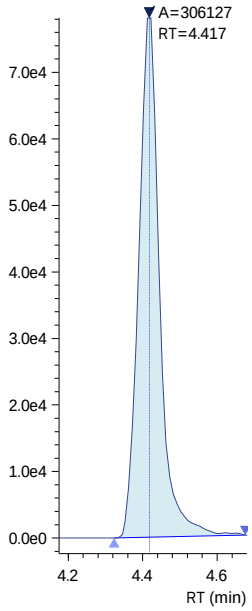
PFHxS_1
Conc 0.0140
R#1 116.27 (83.10)
Q 399.00>80.00 (-) 3.18e2



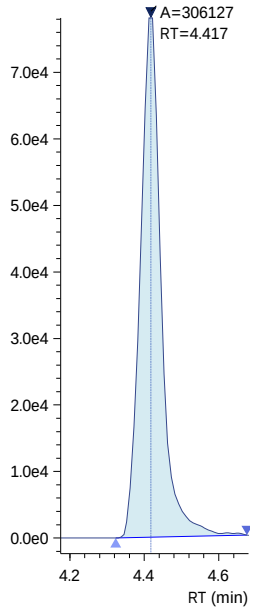
R1 399.00>99.00 (-) 4.55e2



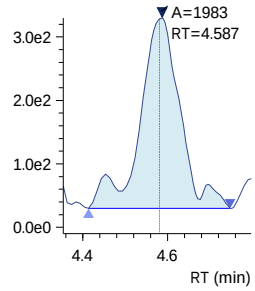
PFHxS-18O
Conc 4.3018
Q 402.70>84.05 (-) 7.82e4



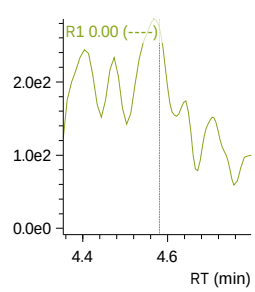
PFHxS-18O_IS
Conc 5.0000
ISTD 402.70>84.05 (-) 7.82e4



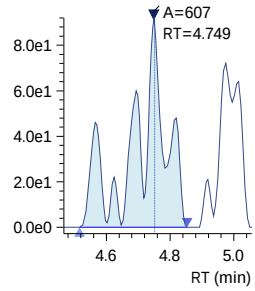
PFHpS_1
Conc 0.0152
R#1 0.00 (58.24)
Q 449.00>80.15 (-) 3.30e2



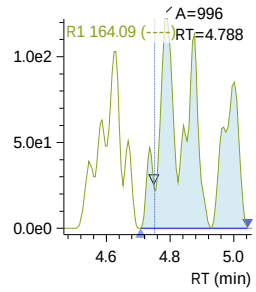
R1 449.00>99.20 (-) 2.86e2



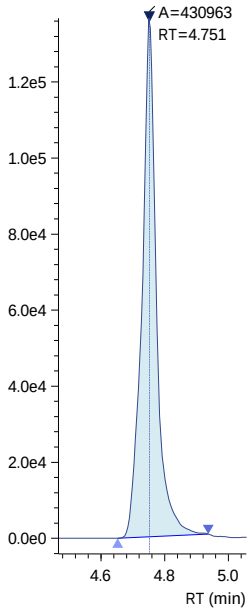
PFOS_1
Conc 0.0073
R#1 164.09 (87.63)
Q 499.00>80.00 (-) 9.20e1



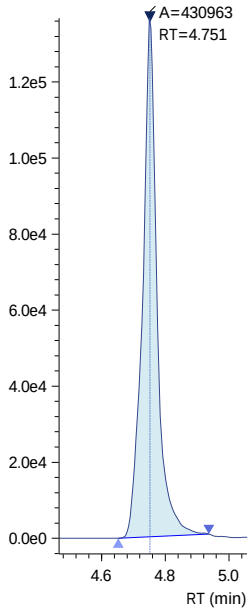
R1 499.00>99.00 (-) 1.22e2



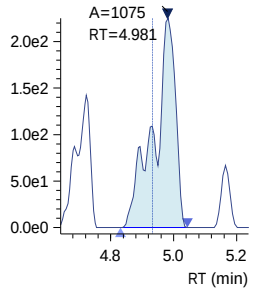
PFOS-13C
Conc 4.8727
Q 502.80>80.05 (-) 1.37e5



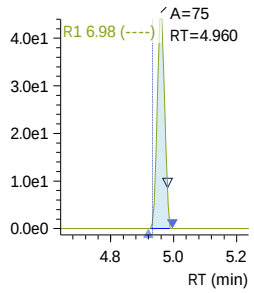
PFOS-13C_IS
Conc 5.0000
ISTD 502.80>80.05 (-) 1.37e5



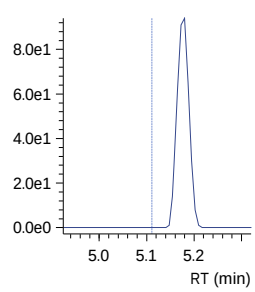
PFNS
Conc 0.0053
R#1 6.98 (137.56)
Q 549.00>99.00 (-) 2.25e2



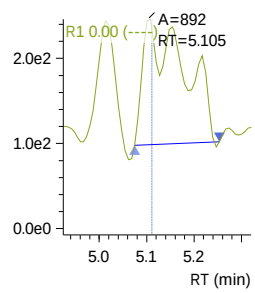
R1 549.00>79.95 (-) 4.40e1



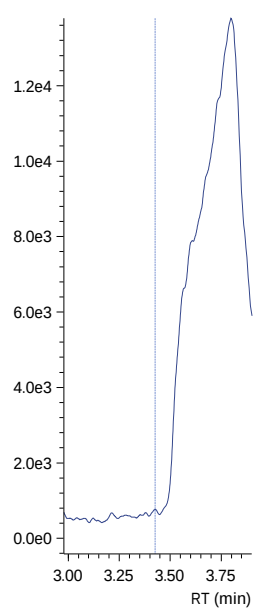
PFDS_1
Conc ----
R#1 0.00 (101.78)
Q 599.00>79.90 (-) 9.40e1



R1 599.00>99.10 (-) 2.46e2



PFBA
Conc ----
Q 213.00>169.10 (-) 1.38e4



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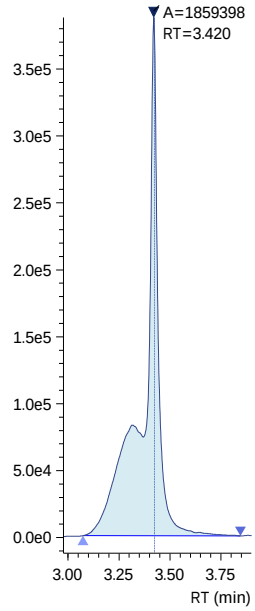
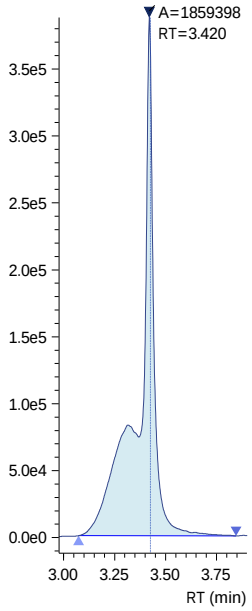
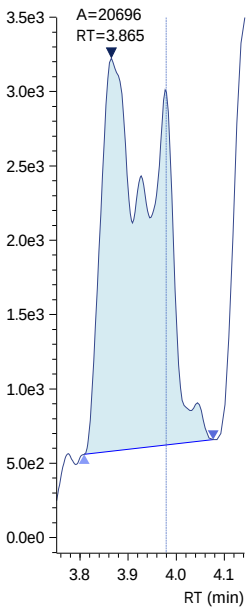
PFBA-13C
Conc 4.5033
Q 216.90>172.15 (-) 3.88e5



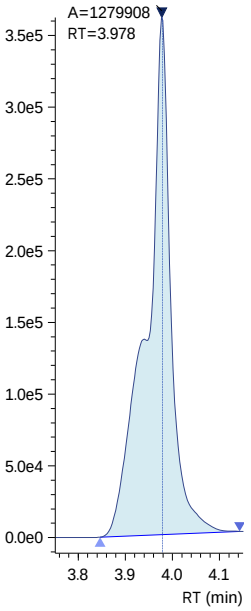
PFBA-13C_IS
Conc 5.0000
ISTD 216.90>172.15 (-) 3.88e5



PFPeA
Conc 0.0091
Q 263.05>219.10 (-) 3.50e3



PFPeA-13C
Conc 4.7037
Q 267.90>223.00 (-) 3.63e5



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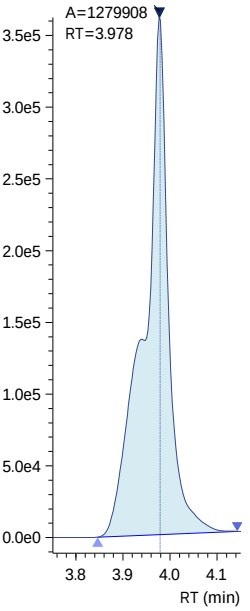
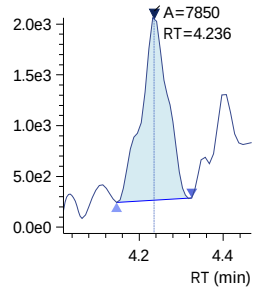
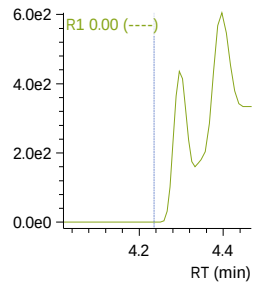
Conc 5.0000
ISTD 267.90>223.00 (-) 3.63e5



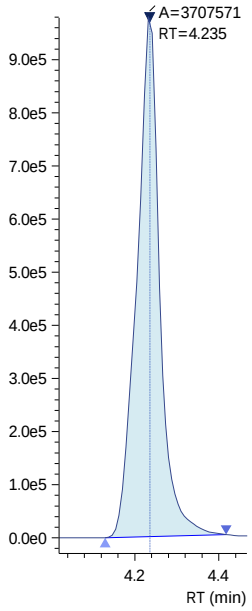
PFHxA
Conc 0.0078
R#1 0.00 (4.21)
Q 313.00>269.00 (-) 2.06e3



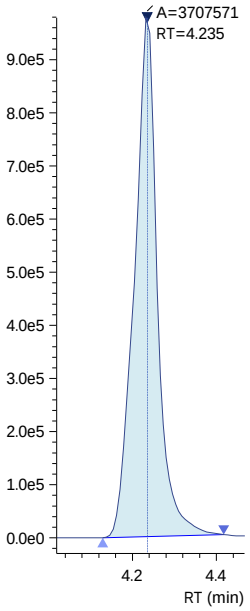
R1 313.00>119.10 (-) 6.05e2



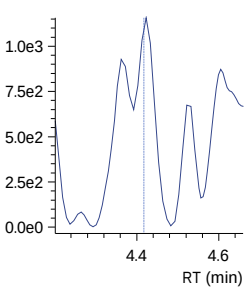
PFHxA-13C
Conc 4.9349
Q 314.90>270.10 (-) 9.79e5



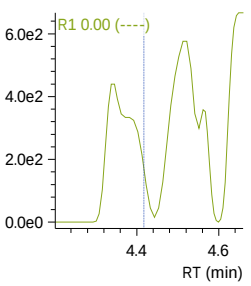
PFHxA-13C_IS
Conc 5.0000
ISTD 314.90>270.10 (-) 9.79e5



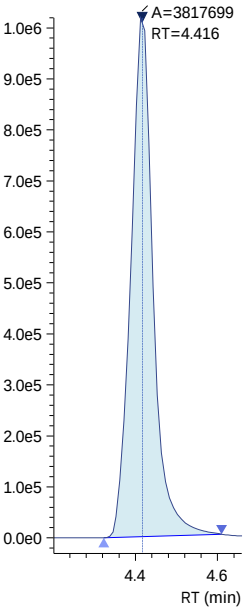
PFHpA
Conc ----
R#1 0.00 (26.69)
Q 362.90>319.00 (-) 1.16e3



R1 362.90>169.00 (-) 6.67e2



PFHpA-13C
Conc 5.0189
Q 366.90>322.10 (-) 1.02e6



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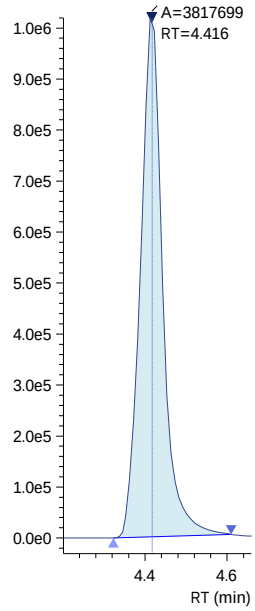
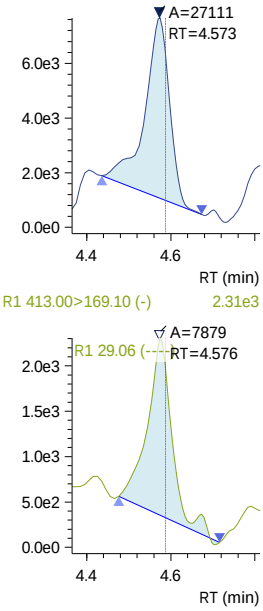
PFHpA-13C_IS
Conc 5.0000
ISTD 366.90>322.10 (-) 1.02e6

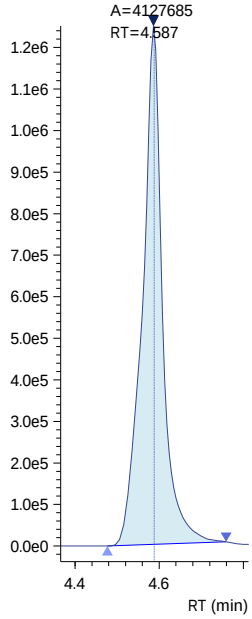


PFOA
Conc 0.0088
R#1 29.06 (31.31)
Q 413.00>369.00 (-) 7.66e3

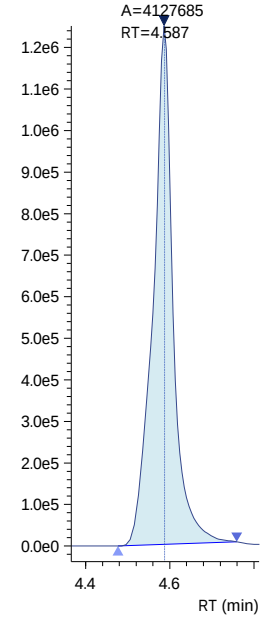


R1 413.00>169.10 (-) 2.31e3

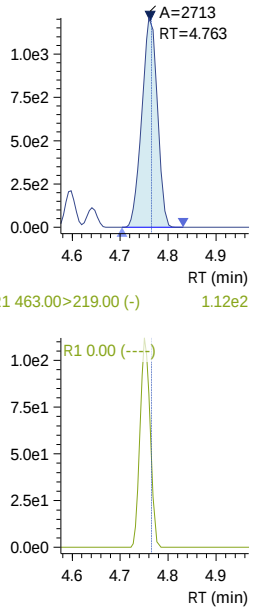
PFOA-13C
Conc 4.8744
Q 416.80>372.05 (-) 1.25e6



PFOA-13C_IS
Conc 5.0000
ISTD 416.80>372.05 (-) 1.25e6

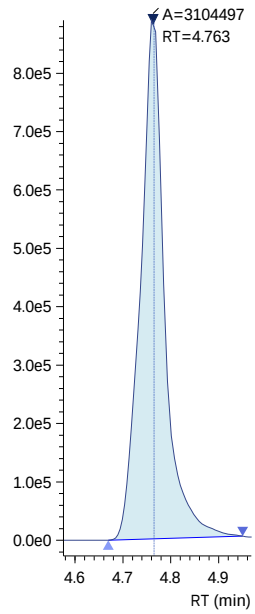


PFNA
Conc 0.0035
R#1 0.00 (20.54)
Q 463.00>418.90 (-) 1.21e3

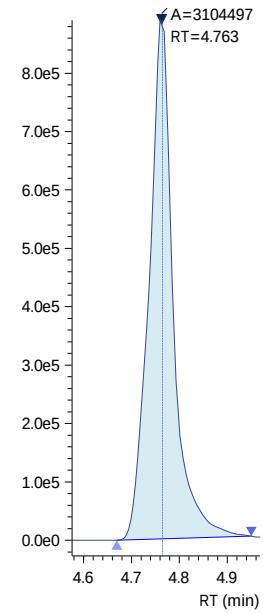


R1 463.00>219.00 (-) 1.12e2

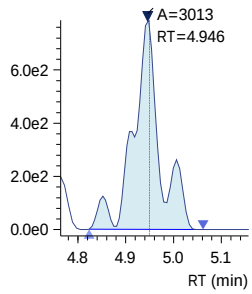
PFNA-13C
Conc 4.8060
Q 467.80>423.00 (-) 8.91e5



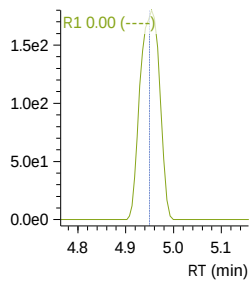
PFNA-13C_IS
Conc 5.0000
ISTD 467.80>423.00 (-) 8.91e5



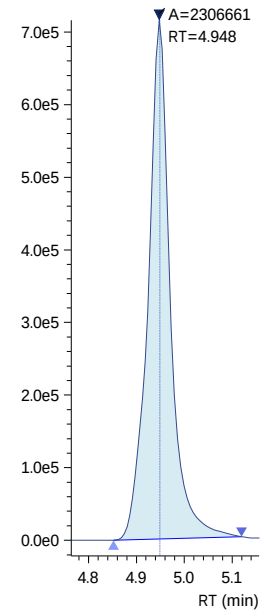
PFDA
Conc 0.0044
R#1 0.00 (20.01)
Q 513.00>468.80 (-) 7.87e2



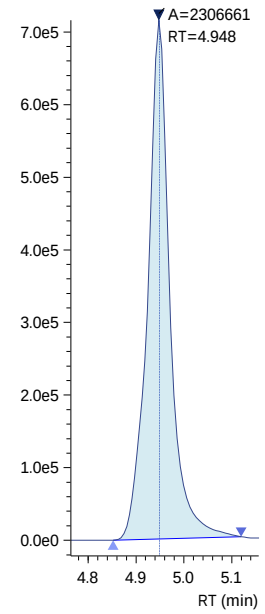
R1 513.00>219.10 (-) 1.80e2



PFDA-13C
Conc 4.8312
Q 514.80>469.95 (-) 7.16e5

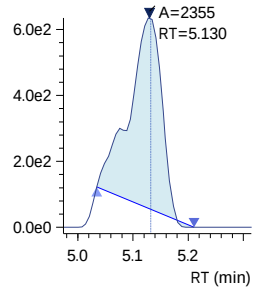


PFDA-13C_IS
Conc 5.0000
ISTD 514.80>469.95 (-) 7.16e5

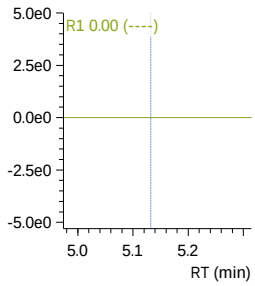


210819_026 (continued)

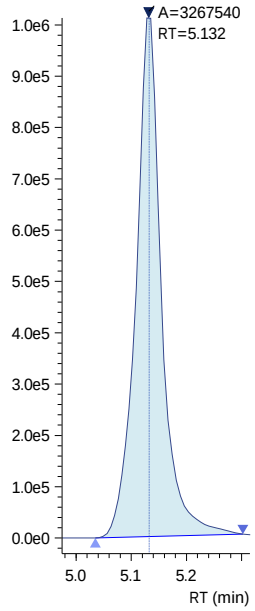
PFUnA
Conc 0.0030
R#1 0.00 (13.39)
Q 563.00>518.90 (-) 6.35e2



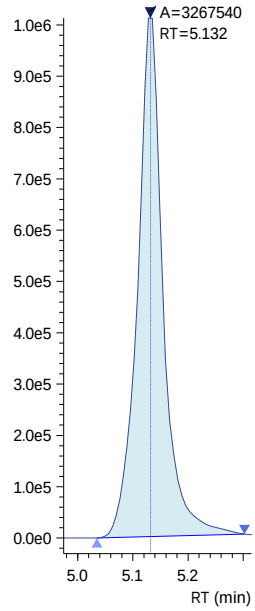
R1 563.00>219.00 (-) 0.00e0



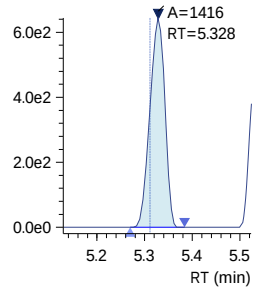
PFUnA-13C
Conc 5.1366
Q 564.80>519.95 (-) 1.01e6



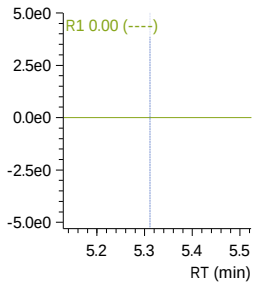
PFUnA-13C_IS
Conc 5.0000
ISTD 564.80>519.95 (-) 1.01e6



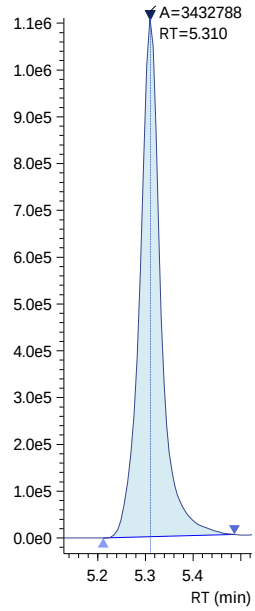
PFDoA
Conc 0.0021
R#1 0.00 (16.84)
Q 613.05>569.00 (-) 6.44e2



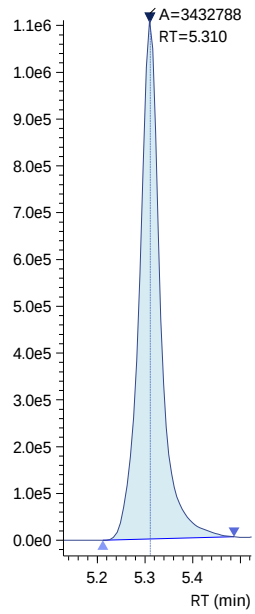
R1 613.05>169.00 (-) 0.00e0



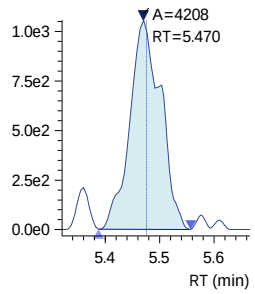
PFDoA-13C
Conc 4.9263
Q 614.80>569.95 (-) 1.11e6



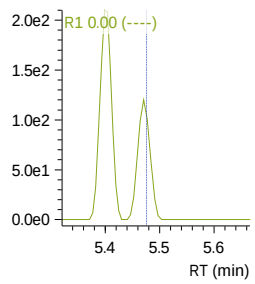
PFDoA-13C_IS
Conc 5.0000
ISTD 614.80>569.95 (-) 1.11e6



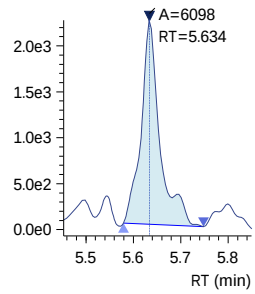
PFTrDA
Conc 0.0062
R#1 0.00 (16.76)
Q 663.00>618.90 (-) 1.06e3



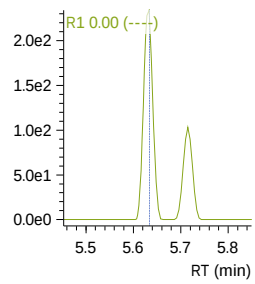
R1 662.90>169.00 (-) 2.10e2



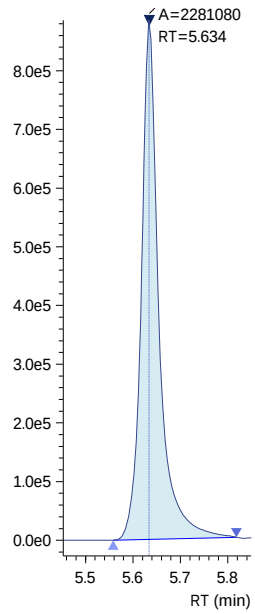
PFTeDA
Conc 0.0117
R#1 0.00 (16.56)
Q 713.00>669.00 (-) 2.28e3



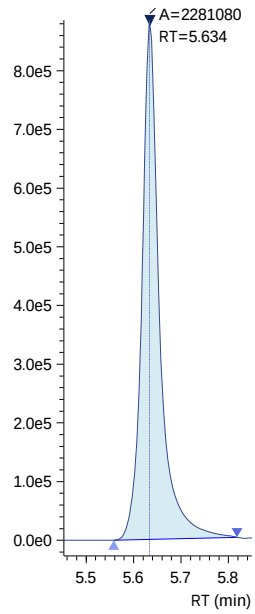
R1 713.00>169.10 (-) 2.34e2



PFTeDA-13C
Conc 4.8373
Q 714.70>669.90 (-) 8.86e5



PFTeDA-13C_IS
Conc 5.0000
ISTD 714.70>669.90 (-) 8.86e5



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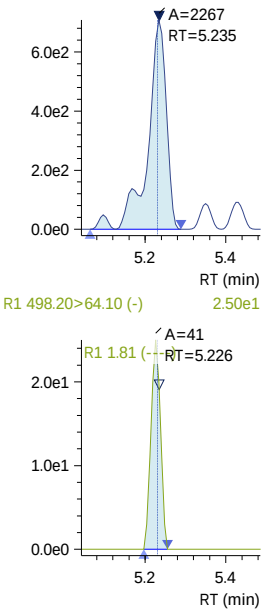
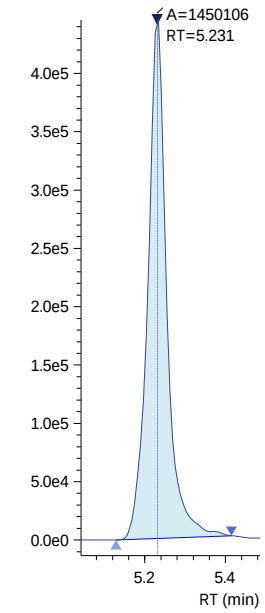
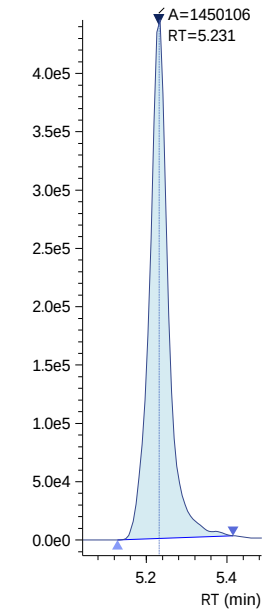
FOSA
Conc 0.0060
R#1 1.81 (4.59)
Q 498.20>78.00 (-) 7.08e2
R1 498.20>64.10 (-) 2.50e1



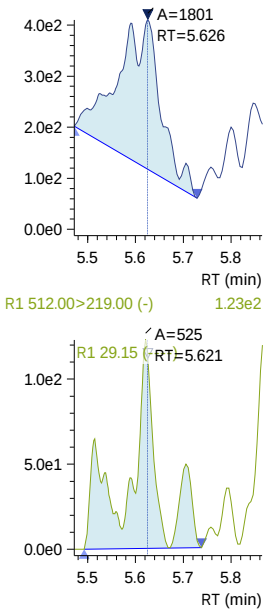
FOSA-13C
Conc 4.8288
Q 506.00>78.05 (-) 4.46e5



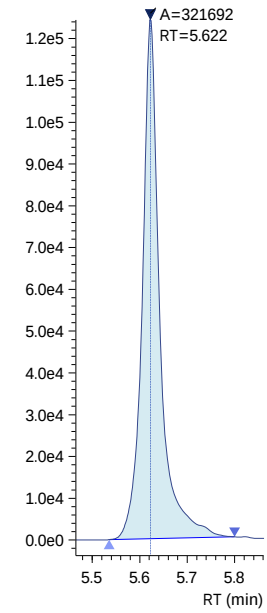
FOSA-13C_IS
Conc 5.0000
ISTD 506.00>78.05 (-) 4.46e5



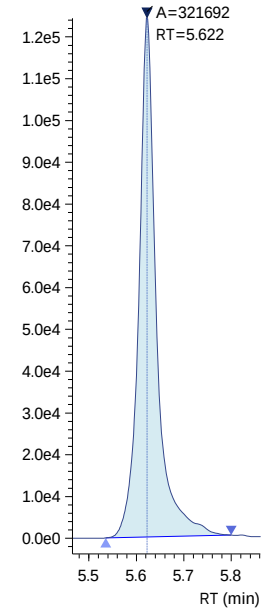
N-MeFOSA
Conc 0.0136
R#1 29.15 (68.73)
Q 512.00>169.10 (-) 4.10e2
R1 512.00>219.00 (-) 1.23e2



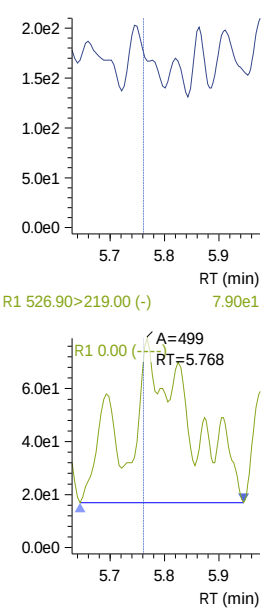
N-MeFOSA-d3
Conc 4.6070
Q 514.90>168.90 (-) 1.24e5



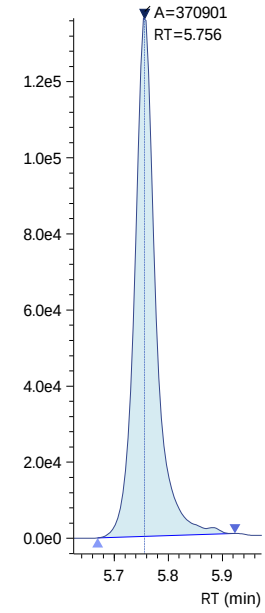
N-MeFOSA-d3_IS
Conc 5.0000
ISTD 514.90>168.90 (-) 1.24e5



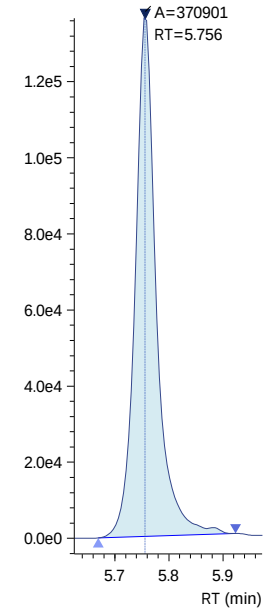
N-MeFOSA
Conc ----
R#1 0.00 (62.10)
Q 526.90>169.10 (-) 2.10e2
R1 526.90>219.00 (-) 7.90e1



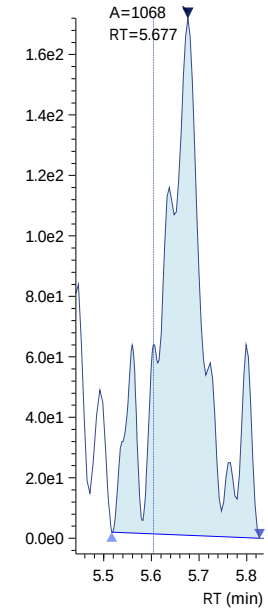
N-EtFOSA-d9
Conc 4.6750
Q 530.90>169.15 (-) 1.37e5



N-EtFOSA-d9_IS
Conc 5.0000
ISTD 530.90>169.15 (-) 1.37e5



N-MeFOSE
Conc 0.0073
Q 616.00>59.00 (-) 1.72e2



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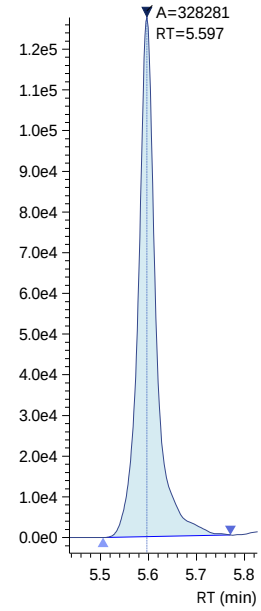
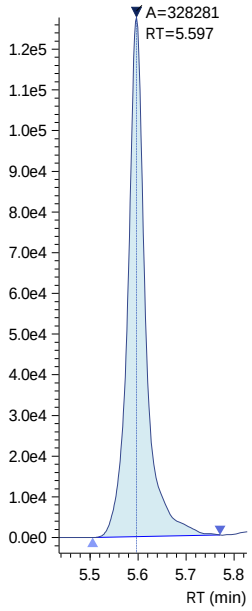
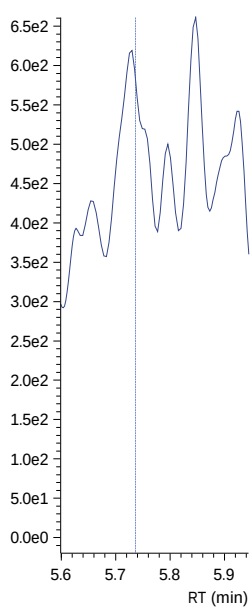
N-MeFOSE-d7
Conc 4.7013
Q 622.70>59.10 (-) 1.28e5



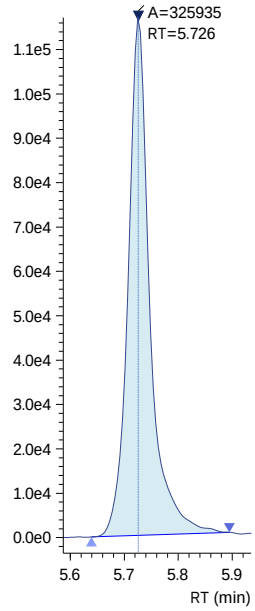
N-MeFOSE-d7_IS
Conc 5.0000
ISTD 622.70>59.10 (-) 1.28e5



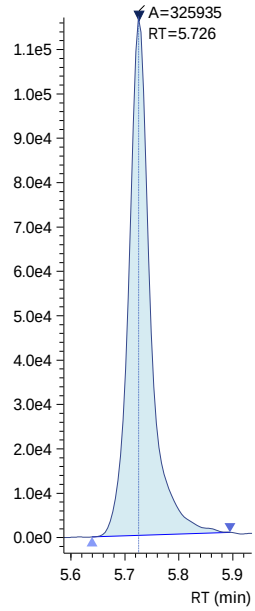
N-EtFOSE
Conc ----
Q 630.00>58.90 (-) 6.61e2



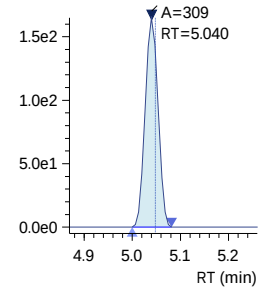
N-EtFOSE-d9
Conc 4.5085
Q 638.70>59.10 (-) 1.17e5



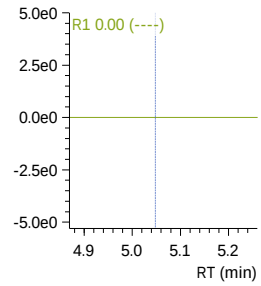
N-EtFOSE-d9_IS
Conc 5.0000
ISTD 638.70>59.10 (-) 1.17e5



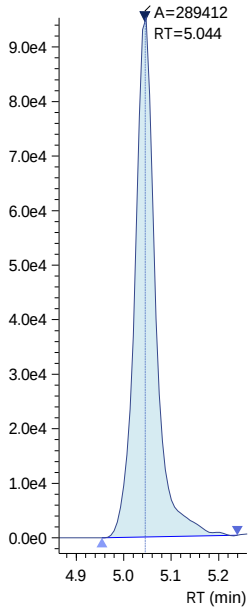
N-MeFOSAA
Conc 0.0204
R#1 0.00 (52.81)
Q 570.20>419.00 (-) 1.65e2



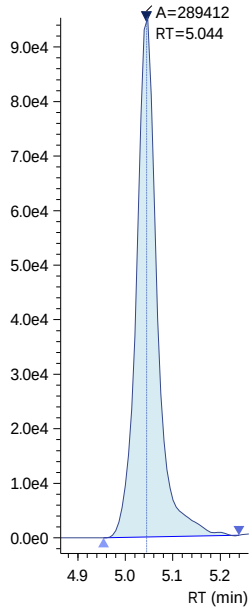
R1 570.20>512.00 (-) 0.00e0



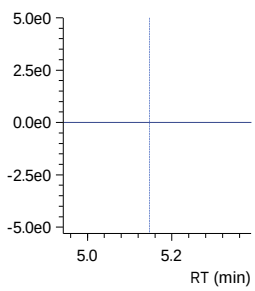
N-MeFOSAA-d3
Conc 5.0727
Q 572.80>419.05 (-) 9.54e4



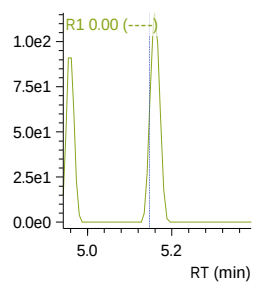
N-MeFOSAA-d3_IS
Conc 5.0000
ISTD 572.80>419.05 (-) 9.54e4



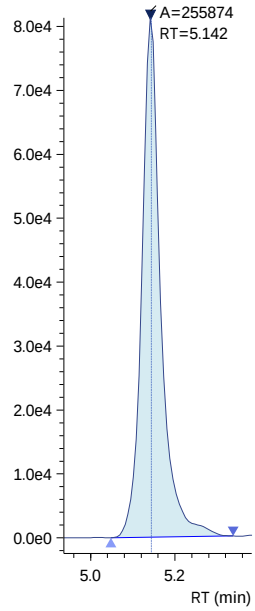
N-EtFOSAA
Conc ----
R#1 0.00 (86.68)
Q 584.20>418.95 (-) 0.00e0



R1 584.20>526.10 (-) 1.16e2



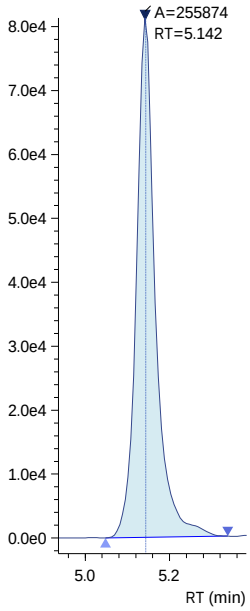
N-EtFOSAA-d5
Conc 4.7974
Q 588.80>419.00 (-) 8.14e4



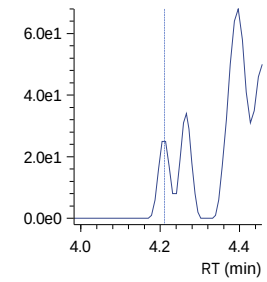
Insight Report
Before Manual Integration
Printed 8/20/2021 09:47:37

210819_026 (continued)

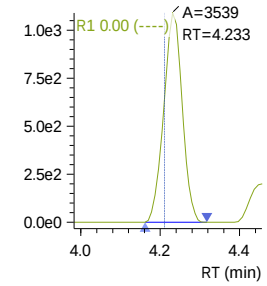
N-EtFOSAA-d5_IS
Conc 5.0000
ISTD 588.80>419.00 (-) 8.14e4



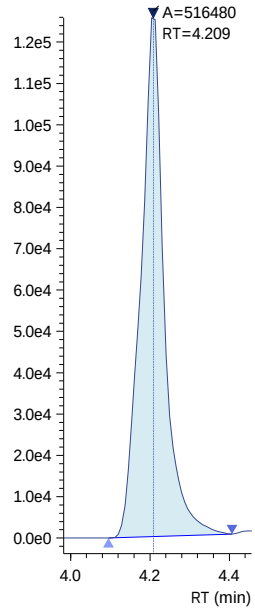
4_2-FTS_1
Conc ----
R#1 0.00 (33.17)
Q 327.00>307.05 (-) 6.80e1



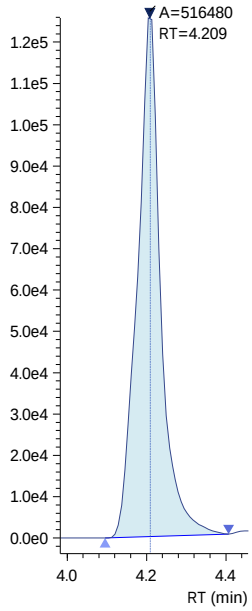
R1 327.00>81.10 (-) 1.09e3



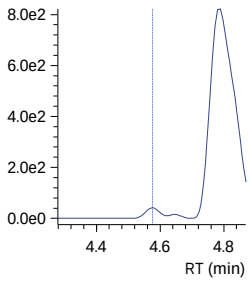
4_2-FTS-13C
Conc 4.4457
Q 328.80>309.05 (-) 1.26e5



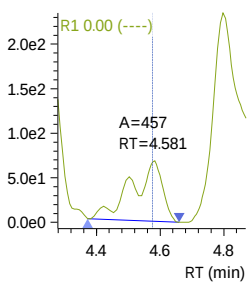
4_2-FTS-13C_IS
Conc 5.0000
ISTD 328.80>309.05 (-) 1.26e5



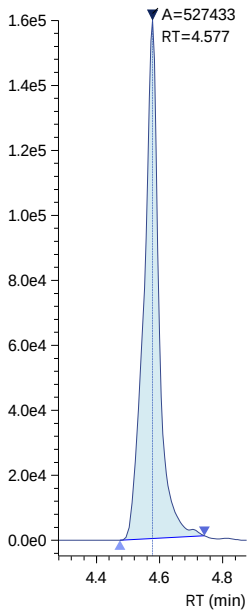
6_2-FTS_1
Conc ----
R#1 0.00 (31.24)
Q 427.00>407.00 (-) 8.22e2



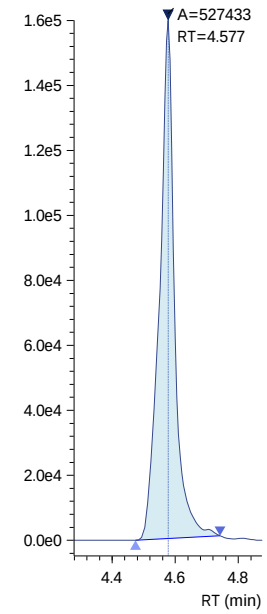
R1 427.00>80.90 (-) 2.35e2



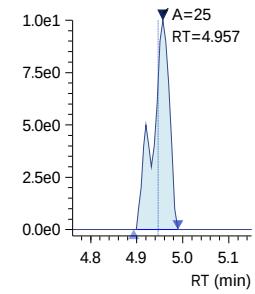
6_2-FTS-13C
Conc 4.8057
Q 428.90>409.00 (-) 1.60e5



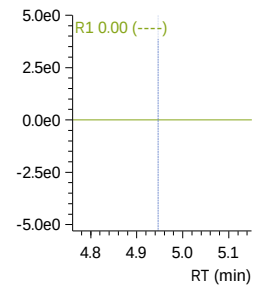
6_2-FTS-13C_IS
Conc 5.0000
ISTD 428.90>409.00 (-) 1.60e5



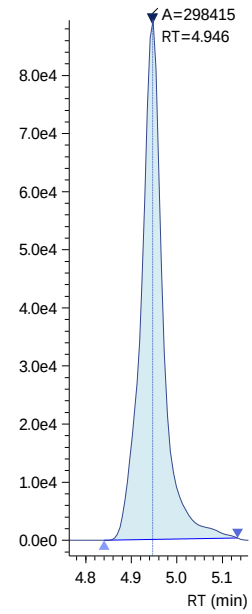
8_2-FTS_1
Conc 0.0004
R#1 0.00 (9.11)
Q 527.10>506.90 (-) 1.00e1



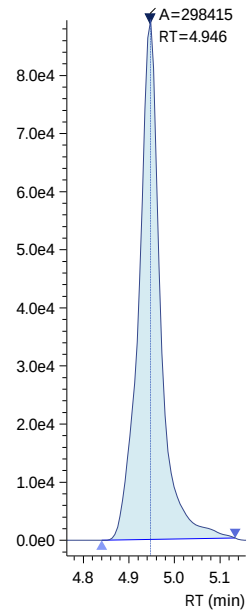
R1 527.20>487.00 (-) 0.00e0



8_2-FTS-13C
Conc 5.1085
Q 528.80>509.00 (-) 8.95e4

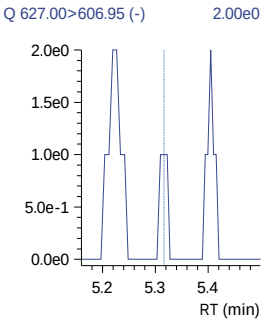


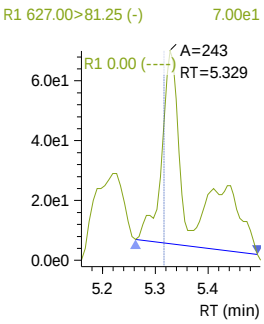
8_2-FTS-13C_IS
Conc 5.0000
ISTD 528.80>509.00 (-) 8.95e4



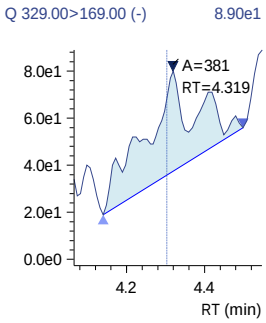
210819_026 (continued)

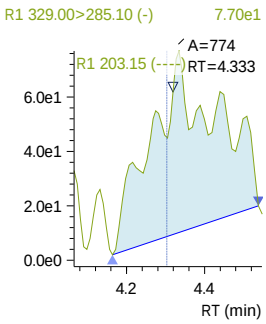
10_2-FtS_1
Conc ----
R#1 0.00 (50.91)



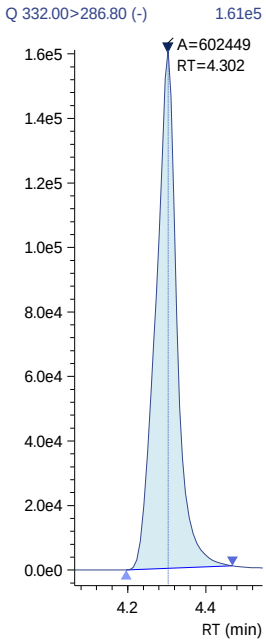


HPFO_DA
Conc 0.0034
R#1 203.15 (109.48)

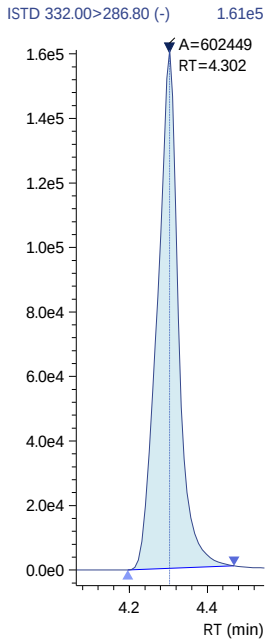




HFPO_DA-13C
Conc 4.6121



HFPO_DA-13C_IS
Conc 5.0000



Insight Report
Retention Time/Signal:Noise Ratio Confirmation
Printed 8/20/2021 11:18:22

210819_027

Sample ID: PFC ICAL @ 15ppb
Date Acquired: 8/19/2021 7:52:30 PM
Acquired by: System Administrator
Data File: 210819_027
Vial: 7 | Inj. Volume: 15.0000uL | Tray: 0

Name	m/z	Ref 1 m/z	Found RT	RT Diff	ISTD RT Diff	S/N	Ref 1 S/N	Flag ID
13C7-PFUnDA_IS	570.00>525.00	----	5.141	0.009	----	12335	----	
PFBS_1	299.00>80.00	298.80>99.00	4.040	0.007	0.000	352195	58039	
PFBS-13C	301.80>80.00	----	4.040	0.007	-1.101	809653	----	
PFBS-13C_IS	301.80>80.00	----	4.040	0.007	----	809653	----	
PFPeS	349.00>99.00	349.00>79.95	4.260	0.007	0.220	10902	(INF)	
PFHxS_1	399.00>80.00	399.00>99.00	4.424	0.010	-0.002	143451	8209	
PFHxS-18O	402.70>84.05	----	4.426	0.008	-0.715	(INF)	----	
PFHxS-18O_IS	402.70>84.05	----	4.426	0.008	----	(INF)	----	
PFHpS_1	449.00>80.15	449.00>99.20	4.588	0.007	0.162	37537	8099	
PFOS_1	499.00>80.00	499.00>99.00	4.759	0.007	0.000	8324	7604	
PFOS-13C	502.80>80.05	----	4.759	0.007	-0.382	14927	----	
PFOS-13C_IS	502.80>80.05	----	4.759	0.007	----	14927	----	
PFNS	549.00>99.00	549.00>79.95	4.940	0.007	0.181	11914	1259422	
PFDS_1	599.00>79.90	599.00>99.10	5.120	0.009	0.361	(INF)	18776	
PFBA	213.00>169.10	----	3.438	0.012	0.001	32368	----	
PFBA-13C	216.90>172.15	----	3.437	0.012	-1.704	13001	----	
PFBA-13C_IS	216.90>172.15	----	3.437	0.012	----	13001	----	
PFPeA	263.05>219.10	----	3.987	0.008	0.000	6991	----	
PFPeA-13C	267.90>223.00	----	3.987	0.008	-1.154	10135	----	
PFPeA-13C_IS	267.90>223.00	----	3.987	0.008	----	10135	----	
PFHxA	313.00>269.00	313.00>119.10	4.244	0.008	0.000	21014	(INF)	
PFHxA-13C	314.90>270.10	----	4.244	0.008	-0.897	95478	----	
PFHxA-13C_IS	314.90>270.10	----	4.244	0.008	----	95478	----	
PFHpA	362.90>319.00	362.90>169.00	4.425	0.008	-0.001	33204	197640	
PFHpA-13C	366.90>322.10	----	4.426	0.009	-0.715	28079	----	
PFHpA-13C_IS	366.90>322.10	----	4.426	0.009	----	28079	----	
PFOA	413.00>369.00	413.00>169.10	4.595	0.007	0.000	70717	21404	
PFOA-13C	416.80>372.05	----	4.595	0.007	-0.546	1272242	----	
PFOA-13C_IS	416.80>372.05	----	4.595	0.007	----	1272242	----	
PFNA	463.00>418.90	463.00>219.00	4.772	0.007	0.000	11439	13311	
PFNA-13C	467.80>423.00	----	4.772	0.007	-0.369	14635	----	
PFNA-13C_IS	467.80>423.00	----	4.772	0.007	----	14635	----	
PFDA	513.00>468.80	513.00>219.10	4.957	0.008	0.000	36118	9296	
PFDA-13C	514.80>469.95	----	4.957	0.008	-0.184	59304	----	
PFDA-13C_IS	514.80>469.95	----	4.957	0.008	----	59304	----	
PFUnA	563.00>518.90	563.00>219.00	5.141	0.008	0.000	7976	8718	
PFUnA-13C	564.80>519.95	----	5.141	0.009	0.000	15004	----	
PFUnA-13C_IS	564.80>519.95	----	5.141	0.009	----	15004	----	
PFDoA	613.05>569.00	613.05>169.00	5.320	0.009	0.001	60406	19083	
PFDoA-13C	614.80>569.95	----	5.319	0.008	0.178	77501	----	
PFDoA-13C_IS	614.80>569.95	----	5.319	0.008	----	77501	----	
PFTrDA	663.00>618.90	662.90>169.00	5.484	0.008	-0.157	24628	(INF)	
PFTeDA	713.00>669.00	713.00>169.10	5.641	0.007	0.000	5781	10902	
PFTeDA-13C	714.70>669.90	----	5.641	0.007	0.500	34165	----	
PFTeDA-13C_IS	714.70>669.90	----	5.641	0.007	----	32250	----	
FOSA	498.20>78.00	498.20>64.10	5.238	0.007	0.000	(INF)	(INF)	
FOSA-13C	506.00>78.05	----	5.238	0.007	0.097	798	----	
FOSA-13C_IS	506.00>78.05	----	5.238	0.007	----	798	----	
N-MeFOSA	512.00>169.10	512.00>219.00	5.631	0.006	0.004	(INF)	(INF)	
N-MeFOSA-d3	514.90>168.90	----	5.627	0.005	0.486	1211	----	
N-MeFOSA-d3_IS	514.90>168.90	----	5.627	0.005	----	1211	----	

J:\LCMS06\Data\210819_Curve\210819_Curve.DAMLP .

SN - Software-calculated S/N ratio outside criteria due to non-target peaks or drift in noise calculation window. Analyst review of noise levels (excluding non-target peaks) in chromatogram indicates S/N ratio meets criteria.

210819_027 (continued)

(Table continued from previous page)

Name	m/z	Ref 1 m/z	Found RT	RT Diff	ISTD RT Diff	S/N	Ref 1 S/N	Flag ID
N-EtFOSA	526.90>169.10	526.90>219.00	5.767	0.006	0.005	(INF)	(INF)	
N-EtFOSA-d9	530.90>169.15	----	5.762	0.006	0.621	(INF)	----	
N-EtFOSA-d9_IS	530.90>169.15	----	5.762	0.006	----	(INF)	----	
N-MeFOSE	616.00>59.00	----	5.610	0.005	0.008	(INF)	----	
N-MeFOSE-d7	622.70>59.10	----	5.602	0.005	0.461	1228	----	
N-MeFOSE-d7_IS	622.70>59.10	----	5.602	0.005	----	1228	----	
N-EtFOSE	630.00>58.90	----	5.742	0.006	0.011	(INF)	----	
N-EtFOSE-d9	638.70>59.10	----	5.731	0.005	0.590	2452	----	
N-EtFOSE-d9_IS	638.70>59.10	----	5.731	0.005	----	2452	----	
N-MeFOSAA	570.20>419.00	570.20>512.00	5.056	0.008	0.003	137853	(INF)	
N-MeFOSAA-d3	572.80>419.05	----	5.053	0.008	-0.088	768	----	
N-MeFOSAA-d3_IS	572.80>419.05	----	5.053	0.008	----	768	----	
N-EtFOSAA	584.20>418.95	584.20>526.10	5.154	0.006	0.003	132747	1573	
N-EtFOSAA-d5	588.80>419.00	----	5.151	0.007	0.010	348215	----	
N-EtFOSAA-d5_IS	588.80>419.00	----	5.151	0.007	----	348215	----	
4_2-FTS_1	327.00>307.05	327.00>81.10	4.217	0.007	0.000	63444	50578	
4_2-FTS-13C	328.80>309.05	----	4.217	0.007	-0.924	247856	----	
4_2-FTS-13C_IS	328.80>309.05	----	4.217	0.007	----	274580	----	
6_2-FTS_1	427.00>407.00	427.00>80.90	4.583	0.007	0.000	(INF)	4922	
6_2-FTS-13C	428.90>409.00	----	4.583	0.005	-0.558	(INF)	----	
6_2-FTS-13C_IS	428.90>409.00	----	4.583	0.005	----	(INF)	----	
8_2-FTS_1	527.10>506.90	527.20>487.00	4.955	0.008	0.000	130021	(INF)	
8_2-FTS-13C	528.80>509.00	----	4.955	0.008	-0.186	22018	----	
8_2-FTS-13C_IS	528.80>509.00	----	4.955	0.008	----	22018	----	
10_2-FtS_1	627.00>606.95	627.00>81.25	5.326	0.009	0.371	40089	35566	
HPFO_DA	329.00>169.00	329.00>285.10	4.311	0.008	0.000	20138	21399	
HFPO_DA-13C	332.00>286.80	----	4.311	0.007	-0.830	13885	----	
HFPO_DA-13C_IS	332.00>286.80	----	4.311	0.007	----	13885	----	

SN - Software-calculated S/N ratio outside criteria due to non-target peaks or drift in noise calculation window. Analyst review of noise levels (excluding non-target peaks) in chromatogram indicates S/N ratio meets criteria.

Insight Report
Ion Ratio Confirmation
Printed 8/20/2021 11:19:20

210819_027

Sample ID: PFC ICAL @ 15ppb
Date Acquired: 8/19/2021 7:52:30 PM
Acquired by: System Administrator
Data File: 210819_027
Vial: 7 | Inj. Volume: 15.0000uL | Tray: 0

Name	m/z	Ref 1 m/z	Area	Ref 1 Measured	Ref 1 Actual Ratio	Ref 1 Set Ratio	Comment 1	Flag ID
13C7-PFUnDA_IS	570.00>525.00	----	4512577	----	----	----		
PFBS_1	299.00>80.00	298.80>99.00	2424672	1128421	46.54	47.76	23.88-71.64	
PFBS-13C	301.80>80.00	----	473537	----	----	----	0-0	
PFBS-13C_IS	301.80>80.00	----	473537	----	----	----	0-0	
PFPeS	349.00>99.00	349.00>79.95	1329394	1952120	146.84	136.08	68.04 -204.13	
PFHxS_1	399.00>80.00	399.00>99.00	1561252	1161901	74.42	71.26	35.63 -106.89	
PFHxS-18O	402.70>84.05	----	351787	----	----	----	0-0	
PFHxS-18O_IS	402.70>84.05	----	351787	----	----	----	0-0	
PFHpS_1	449.00>80.15	449.00>99.20	1839324	1036208	56.34	53.84	26.92-80.76	
PFOS_1	499.00>80.00	499.00>99.00	1031083	895292	86.83	86.72	43.36 -130.08	
PFOS-13C	502.80>80.05	----	404804	----	----	----	0-0	
PFOS-13C_IS	502.80>80.05	----	404804	----	----	----	0-0	
PFNS	549.00>99.00	549.00>79.95	1006391	1360881	135.22	129.18	64.59 -193.78	
PFDS_1	599.00>79.90	599.00>99.10	1413267	1255049	88.81	90.77	45.38 -136.15	
PFBA	213.00>169.10	----	7251052	----	----	----		
PFBA-13C	216.90>172.15	----	1898576	----	----	----		
PFBA-13C_IS	216.90>172.15	----	1898576	----	----	----		
PFPeA	263.05>219.10	----	10852161	----	----	----		
PFPeA-13C	267.90>223.00	----	1214689	----	----	----	0-0	
PFPeA-13C_IS	267.90>223.00	----	1214689	----	----	----	0-0	
PFHxA	313.00>269.00	313.00>119.10	13845333	649407	4.69	4.17	2.08-6.25	
PFHxA-13C	314.90>270.10	----	3391935	----	----	----	0-0	
PFHxA-13C_IS	314.90>270.10	----	3391935	----	----	----	0-0	
PFHpA	362.90>319.00	362.90>169.00	10962189	2757972	25.16	26.04	13.02-39.07	
PFHpA-13C	366.90>322.10	----	3358050	----	----	----	0-0	
PFHpA-13C_IS	366.90>322.10	----	3358050	----	----	----	0-0	
PFOA	413.00>369.00	413.00>169.10	15922394	4814653	30.24	30.35	15.18-45.53	
PFOA-13C	416.80>372.05	----	3648123	----	----	----	0-0	
PFOA-13C_IS	416.80>372.05	----	3648123	----	----	----	0-0	
PFNA	463.00>418.90	463.00>219.00	10620421	2374040	22.35	22.35	11.18-33.53	
PFNA-13C	467.80>423.00	----	2796673	----	----	----	0-0	
PFNA-13C_IS	467.80>423.00	----	2796673	----	----	----	0-0	
PFDA	513.00>468.80	513.00>219.10	9635111	1801066	18.69	18.73	9.36-28.09	
PFDA-13C	514.80>469.95	----	2075217	----	----	----	0-0	
PFDA-13C_IS	514.80>469.95	----	2075217	----	----	----	0-0	
PFUnA	563.00>518.90	563.00>219.00	10186427	1200034	11.78	11.60	5.8-17.4	
PFUnA-13C	564.80>519.95	----	2828371	----	----	----	0-0	
PFUnA-13C_IS	564.80>519.95	----	2828371	----	----	----	0-0	
PFDoA	613.05>569.00	613.05>169.00	9688629	1511241	15.60	15.11	7.55-22.66	
PFDoA-13C	614.80>569.95	----	3291823	----	----	----	0-0	
PFDoA-13C_IS	614.80>569.95	----	3291823	----	----	----	0-0	
PFTrDA	663.00>618.90	662.90>169.00	9488323	1360986	14.34	14.19	7.09-21.28	
PFTeDA	713.00>669.00	713.00>169.10	7303628	1146873	15.70	14.98	7.49-22.46	
PFTeDA-13C	714.70>669.90	----	2198596	----	----	----	0-0	
PFTeDA-13C_IS	714.70>669.90	----	2198596	----	----	----	0-0	
FOSA	498.20>78.00	498.20>64.10	5505893	285327	5.18	4.89	2.44-7.33	

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Comment 1 field specifies acceptance range for Ref 1 ratio.
IRr - Ion ratio outside criteria. Exceedances for results above the MDL to be "K" flagged in the analytical report.

Insight Report
Ion Ratio Confirmation
Printed 8/20/2021 11:19:20

210819_027 (continued)

(Table continued from previous page)

Name	m/z	Ref 1 m/z	Area	Ref 1 Measured	Ref 1 Actual Ratio	Ref 1 Set Ratio	Comment 1	Flag ID
FOSA-13C	506.00>78.05	----	1368844	----	----	----	0-0	
FOSA-13C_IS	506.00>78.05	----	1368844	----	----	----	0-0	
N-MeFOSA	512.00>169.10	512.00>219.00	1762862	1170364	66.39	62.72	31.36-94.08	
N-MeFOSA-d3	514.90>168.90	----	316772	----	----	----	0-0	
N-MeFOSA-d3_IS	514.90>168.90	----	316772	----	----	----	0-0	
N-EtFOSA	526.90>169.10	526.90>219.00	337122	232259	68.90	63.35	31.68-95.03	
N-EtFOSA-d9	530.90>169.15	----	360872	----	----	----	0-0	
N-EtFOSA-d9_IS	530.90>169.15	----	360872	----	----	----	0-0	
N-MeFOSE	616.00>59.00	----	2178640	----	----	----		
N-MeFOSE-d7	622.70>59.10	----	325824	----	----	----		
N-MeFOSE-d7_IS	622.70>59.10	----	325824	----	----	----		
N-EtFOSE	630.00>58.90	----	2341038	----	----	----		
N-EtFOSE-d9	638.70>59.10	----	331105	----	----	----	0-0	
N-EtFOSE-d9_IS	638.70>59.10	----	331105	----	----	----	0-0	
N-MeFOSAA	570.20>419.00	570.20>512.00	799257	351749	44.01	35.26	17.63-52.88	
N-MeFOSAA-d3	572.80>419.05	----	267845	----	----	----	0-0	
N-MeFOSAA-d3 _IS	572.80>419.05	----	267845	----	----	----	0-0	
N-EtFOSAA	584.20>418.95	584.20>526.10	623570	535429	85.87	77.25	38.62 -115.87	
N-EtFOSAA-d5	588.80>419.00	----	233728	----	----	----	0-0	
N-EtFOSAA-d5_IS	588.80>419.00	----	233728	----	----	----	0-0	
4_2-FTS_1	327.00>307.05	327.00>81.10	1452820	396297	27.28	39.85	19.92-59.77	
4_2-FTS-13C	328.80>309.05	----	570419	----	----	----	0-0	
4_2-FTS-13C_IS	328.80>309.05	----	570419	----	----	----	0-0	
6_2-FTS_1	427.00>407.00	427.00>80.90	1782375	542025	30.41	29.95	14.97-44.92	
6_2-FTS-13C	428.90>409.00	----	485552	----	----	----	0-0	
6_2-FTS-13C_IS	428.90>409.00	----	485552	----	----	----	0-0	
8_2-FTS_1	527.10>506.90	527.20>487.00	801126	76676	9.57	9.42	4.71-14.13	
8_2-FTS-13C	528.80>509.00	----	260121	----	----	----	0-0	
8_2-FTS-13C_IS	528.80>509.00	----	260121	----	----	----	0-0	
10_2-FtS_1	627.00>606.95	627.00>81.25	629102	297221	47.25	49.86	24.93-74.78	
HPFO_DA	329.00>169.00	329.00>285.10	1588074	1677641	105.64	101.52	50.76 -152.28	
HFPO_DA-13C	332.00>286.80	----	585657	----	----	----		
HFPO_DA-13C_IS	332.00>286.80	----	585657	----	----	----		

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Comment 1 field specifies acceptance range for Ref 1 ratio.
IRr - Ion ratio outside criteria. Exceedances for results above the MDL to be "K" flagged in the analytical report.

Insight Report
Quantitation/Integration
Printed 8/20/2021 11:13:44

210819_027

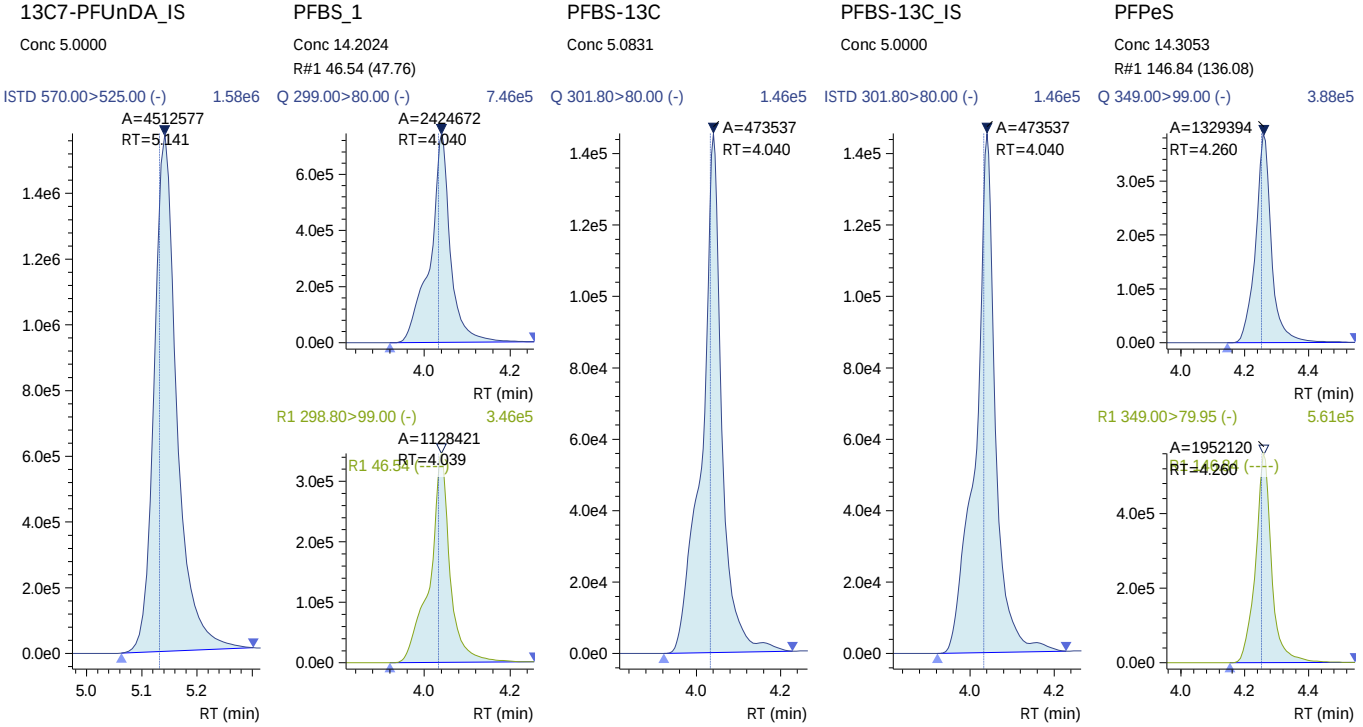
Sample ID: PFC ICAL @ 15ppb
Date Acquired: 8/19/2021 7:52:30 PM
Acquired by: System Administrator
Data File: 210819_027
Vial: 7 | Inj. Volume: 15.0000uL | Tray: 0

Name	Mode ID	Found RT	Area	ISTD Area	ISTD Name	Std. Conc.	Conc.	Unit
13C7-PFUnDA_IS	Auto	5.141	4512577	4512577	----	5.0000	5.0000	ng/mL
PFBS_1	Auto	4.040	2424672	473537	PFBS-13C_IS	13.3106	14.2024	ng/mL
PFBS-13C	Auto	4.040	473537	4512577	13C7-PFUnDA_IS	5.0000	5.0831	ng/mL
PFBS-13C_IS	Auto	4.040	473537	473537	----	5.0000	5.0000	ng/mL
PFPeS	Auto	4.260	1329394	473537	PFBS-13C_IS	14.1138	14.3053	ng/mL
PFHxS_1	Auto	4.424	1561252	351787	PFHxS-18O_IS	13.6961	13.3358	ng/mL
PFHxS-18O	Auto	4.426	351787	4512577	13C7-PFUnDA_IS	5.0000	5.5381	ng/mL
PFHxS-18O_IS	Auto	4.426	351787	351787	----	5.0000	5.0000	ng/mL
PFHpS_1	Auto	4.588	1839324	351787	PFHxS-18O_IS	14.3016	12.4577	ng/mL
PFOS_1	Auto	4.759	1031083	404804	PFOS-13C_IS	13.9385	13.5404	ng/mL
PFOS-13C	Auto	4.759	404804	4512577	13C7-PFUnDA_IS	5.0000	5.1276	ng/mL
PFOS-13C_IS	Auto	4.759	404804	404804	----	5.0000	5.0000	ng/mL
PFNS	Auto	4.940	1006391	404804	PFOS-13C_IS	14.4237	14.6137	ng/mL
PFDS_1	Auto	5.120	1413267	404804	PFOS-13C_IS	14.4700	14.2885	ng/mL
PFBA	M	3.438	7251052	1898576	PFBA-13C_IS	15.0000	15.2591	ng/mL
PFBA-13C	Auto	3.437	1898576	4512577	13C7-PFUnDA_IS	5.0000	5.1513	ng/mL
PFBA-13C_IS	Auto	3.437	1898576	1898576	----	5.0000	5.0000	ng/mL
PFPeA	Auto	3.987	10852161	1214689	PFPeA-13C_IS	15.0000	14.0475	ng/mL
PFPeA-13C	Auto	3.987	1214689	4512577	13C7-PFUnDA_IS	5.0000	5.0010	ng/mL
PFPeA-13C_IS	Auto	3.987	1214689	1214689	----	5.0000	5.0000	ng/mL
PFHxA	Auto	4.244	13845333	3391935	PFHxA-13C_IS	15.0000	15.0650	ng/mL
PFHxA-13C	Auto	4.244	3391935	4512577	13C7-PFUnDA_IS	5.0000	5.0720	ng/mL
PFHxA-13C_IS	Auto	4.244	3391935	3391935	----	5.0000	5.0000	ng/mL
PFHpA	Auto	4.425	10962189	3358050	PFHpA-13C_IS	15.0000	15.0121	ng/mL
PFHpA-13C	Auto	4.426	3358050	4512577	13C7-PFUnDA_IS	5.0000	4.9457	ng/mL
PFHpA-13C_IS	Auto	4.426	3358050	3358050	----	5.0000	5.0000	ng/mL
PFOA	Auto	4.595	15922394	3648123	PFOA-13C_IS	15.0000	14.2005	ng/mL
PFOA-13C	Auto	4.595	3648123	4512577	13C7-PFUnDA_IS	5.0000	4.8263	ng/mL
PFOA-13C_IS	Auto	4.595	3648123	3648123	----	5.0000	5.0000	ng/mL
PFNA	Auto	4.772	10620421	2796673	PFNA-13C_IS	15.0000	15.3846	ng/mL
PFNA-13C	Auto	4.772	2796673	4512577	13C7-PFUnDA_IS	5.0000	4.8503	ng/mL
PFNA-13C_IS	Auto	4.772	2796673	2796673	----	5.0000	5.0000	ng/mL
PFDA	Auto	4.957	9635111	2075217	PFDA-13C_IS	15.0000	15.5226	ng/mL
PFDA-13C	Auto	4.957	2075217	4512577	13C7-PFUnDA_IS	5.0000	4.8694	ng/mL
PFDA-13C_IS	Auto	4.957	2075217	2075217	----	5.0000	5.0000	ng/mL
PFUnA	Auto	5.141	10186427	2828371	PFUnA-13C_IS	15.0000	15.0765	ng/mL
PFUnA-13C	Auto	5.141	2828371	4512577	13C7-PFUnDA_IS	5.0000	4.9811	ng/mL
PFUnA-13C_IS	Auto	5.141	2828371	2828371	----	5.0000	5.0000	ng/mL
PFDoA	Auto	5.320	9688629	3291823	PFDoA-13C_IS	15.0000	15.1267	ng/mL
PFDoA-13C	Auto	5.319	3291823	4512577	13C7-PFUnDA_IS	5.0000	5.2923	ng/mL
PFDoA-13C_IS	Auto	5.319	3291823	3291823	----	5.0000	5.0000	ng/mL
PFTrDA	Auto	5.484	9488323	2198596	PFTeDA-13C_IS	15.0000	14.5354	ng/mL
PFTeDA	Auto	5.641	7303628	2198596	PFTeDA-13C_IS	15.0000	14.7761	ng/mL
PFTeDA-13C	Auto	5.641	2198596	4512577	13C7-PFUnDA_IS	5.0000	5.2232	ng/mL
PFTeDA-13C_IS	Auto	5.641	2198596	2198596	----	5.0000	5.0000	ng/mL
FOSA	Auto	5.238	5505893	1368844	FOSA-13C_IS	15.0000	15.8259	ng/mL
FOSA-13C	Auto	5.238	1368844	4512577	13C7-PFUnDA_IS	5.0000	5.1066	ng/mL
FOSA-13C_IS	Auto	5.238	1368844	1368844	----	5.0000	5.0000	ng/mL
N-MeFOSA	Auto	5.631	1762862	316772	N-MeFOSA-d3_IS	15.0000	14.8661	ng/mL
N-MeFOSA-d3	Auto	5.627	316772	4512577	13C7-PFUnDA_IS	5.0000	5.0823	ng/mL
N-MeFOSA-d3_IS	Auto	5.627	316772	316772	----	5.0000	5.0000	ng/mL
N-EtFOSA	Auto	5.767	337122	360872	N-EtFOSA-d9_IS	15.0000	14.9069	ng/mL
N-EtFOSA-d9	Auto	5.762	360872	4512577	13C7-PFUnDA_IS	5.0000	5.0958	ng/mL
N-EtFOSA-d9_IS	Auto	5.762	360872	360872	----	5.0000	5.0000	ng/mL

210819_027 (continued)

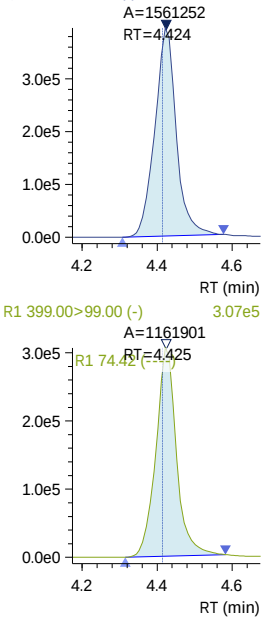
(Table continued from previous page)

Name	Mode ID	Found RT	Area	ISTD Area	ISTD Name	Std. Conc.	Conc.	Unit
N-MeFOSE	Auto	5.610	2178640	325824	N-MeFOSE-d7_IS	15.0000	15.2684	ng/mL
N-MeFOSE-d7	Auto	5.602	325824	4512577	13C7-PFUnDA_IS	5.0000	5.2275	ng/mL
N-MeFOSE-d7_IS	Auto	5.602	325824	325824	----	5.0000	5.0000	ng/mL
N-EtFOSE	Auto	5.742	2341038	331105	N-EtFOSE-d9_IS	15.0000	15.4510	ng/mL
N-EtFOSE-d9	Auto	5.731	331105	4512577	13C7-PFUnDA_IS	5.0000	5.1310	ng/mL
N-EtFOSE-d9_IS	Auto	5.731	331105	331105	----	5.0000	5.0000	ng/mL
N-MeFOSAA	Auto	5.056	799257	267845	N-MeFOSAA-d3_IS	15.0000	15.2136	ng/mL
N-MeFOSAA-d3	Auto	5.053	267845	4512577	13C7-PFUnDA_IS	5.0000	5.2689	ng/mL
N-MeFOSAA-d3_IS	Auto	5.053	267845	267845	----	5.0000	5.0000	ng/mL
N-EtFOSAA	Auto	5.154	623570	233728	N-EtFOSAA-d5_IS	15.0000	14.9941	ng/mL
N-EtFOSAA-d5	Auto	5.151	233728	4512577	13C7-PFUnDA_IS	5.0000	4.9389	ng/mL
N-EtFOSAA-d5_IS	Auto	5.151	233728	233728	----	5.0000	5.0000	ng/mL
4_2-FTS_1	Auto	4.217	1452820	570419	4_2-FTS-13C_IS	14.0583	12.7128	ng/mL
4_2-FTS-13C	Auto	4.217	570419	4512577	13C7-PFUnDA_IS	5.0000	5.5007	ng/mL
4_2-FTS-13C_IS	Auto	4.217	570419	570419	----	5.0000	5.0000	ng/mL
6_2-FTS_1	Auto	4.583	1782375	485552	6_2-FTS-13C_IS	14.2676	13.1966	ng/mL
6_2-FTS-13C	Auto	4.583	485552	4512577	13C7-PFUnDA_IS	5.0000	4.9563	ng/mL
6_2-FTS-13C_IS	Auto	4.583	485552	485552	----	5.0000	5.0000	ng/mL
8_2-FTS_1	Auto	4.955	801126	260121	8_2-FTS-13C_IS	14.4007	13.2412	ng/mL
8_2-FTS-13C	Auto	4.955	260121	4512577	13C7-PFUnDA_IS	5.0000	4.9886	ng/mL
8_2-FTS-13C_IS	Auto	4.955	260121	260121	----	5.0000	5.0000	ng/mL
10_2-FtS_1	Auto	5.326	629102	260121	8_2-FTS-13C_IS	14.4929	15.0306	ng/mL
HPFO_DA	Auto	4.311	1588074	585657	HFPO_DA-13C_IS	15.0000	14.9073	ng/mL
HFPO_DA-13C	Auto	4.311	585657	4512577	13C7-PFUnDA_IS	5.0000	5.0229	ng/mL
HFPO_DA-13C_IS	Auto	4.311	585657	585657	----	5.0000	5.0000	ng/mL

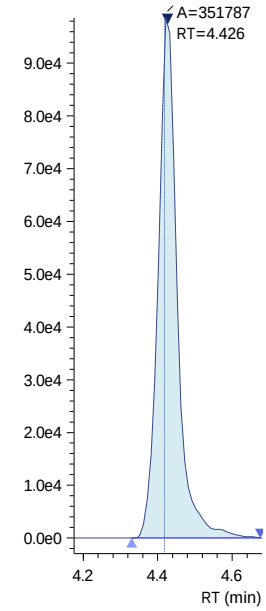


210819_027 (continued)

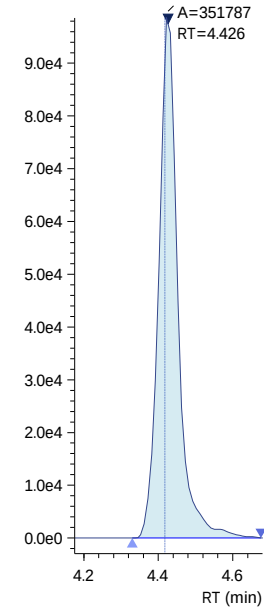
PFHxS_1
Conc 13.3358
R#1 74.42 (71.26)
Q 399.00>80.00 (-) 3.96e5
R1 399.00>99.00 (-) 3.07e5



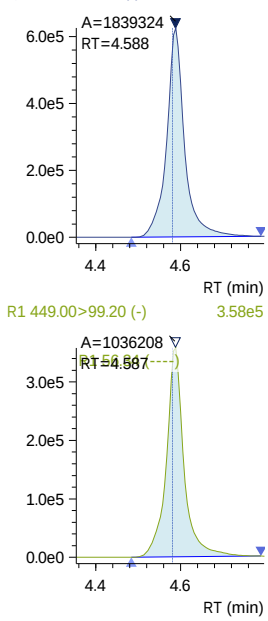
PFHxS-18O
Conc 5.5381
Q 402.70>84.05 (-) 9.86e4



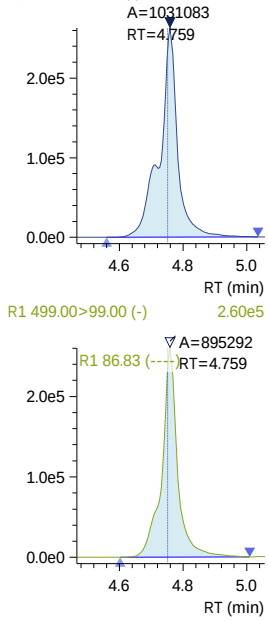
PFHxS-18O_IS
Conc 5.0000
ISTD 402.70>84.05 (-) 9.86e4



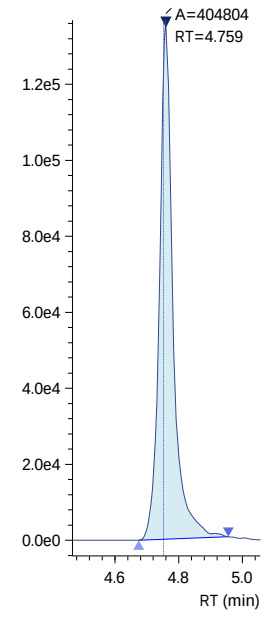
PFHpS_1
Conc 12.4577
R#1 56.34 (53.84)
Q 449.00>80.15 (-) 6.26e5
R1 449.00>99.20 (-) 3.58e5



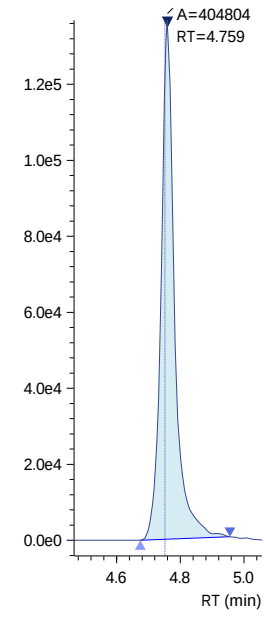
PFOS_1
Conc 13.5404
R#1 86.83 (86.72)
Q 499.00>80.00 (-) 2.63e5
R1 499.00>99.00 (-) 2.60e5



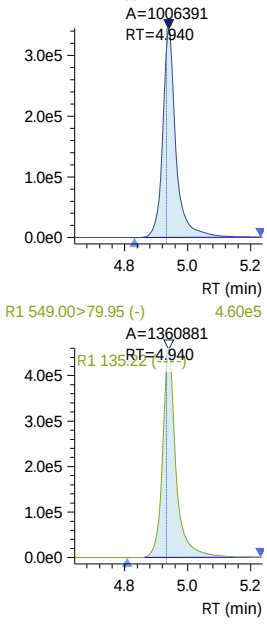
PFOS-13C
Conc 5.1276
Q 502.80>80.05 (-) 1.37e5



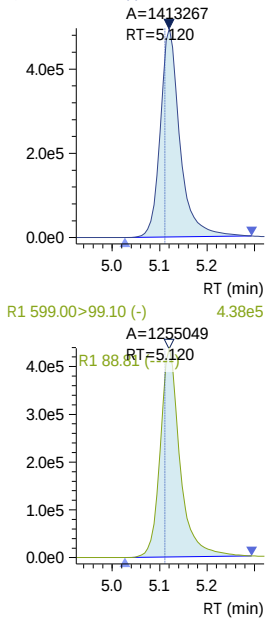
PFOS-13C_IS
Conc 5.0000
ISTD 502.80>80.05 (-) 1.37e5



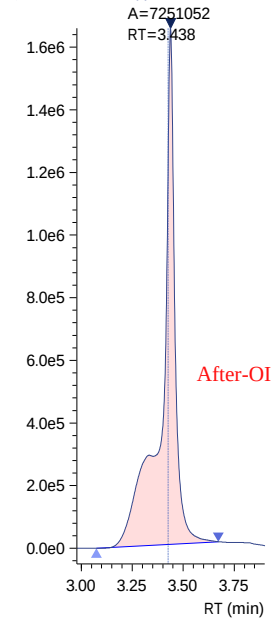
PFNS
Conc 14.6137
R#1 135.22 (129.18)
Q 549.00>99.00 (-) 3.45e5
R1 549.00>79.95 (-) 4.60e5



PFDS_1
Conc 14.2885
R#1 88.81 (90.77)
Q 599.00>79.90 (-) 4.97e5
R1 599.00>99.10 (-) 4.38e5

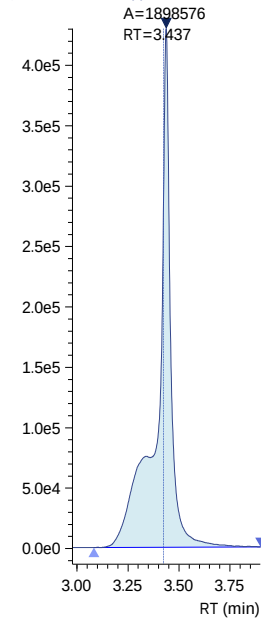


PFBA
Conc 15.2591
Q 213.00>169.10 (-) 1.66e6

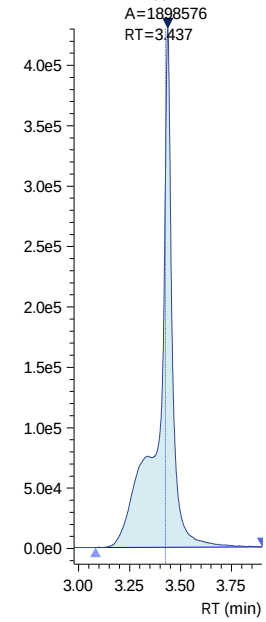


210819_027 (continued)

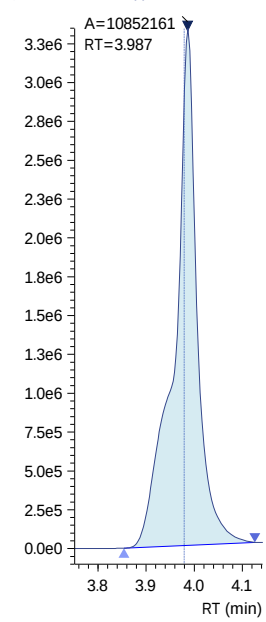
PFBA-13C
Conc 5.1513
Q 216.90>172.15 (-) 4.31e5



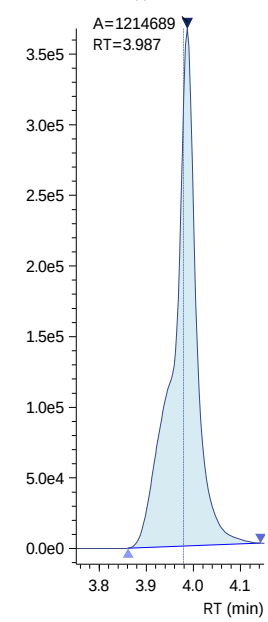
PFBA-13C_IS
Conc 5.0000
ISTD 216.90>172.15 (-) 4.31e5



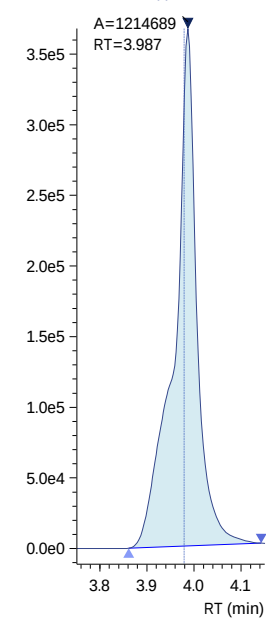
PFPeA
Conc 14.0475
Q 263.05>219.10 (-) 3.35e6



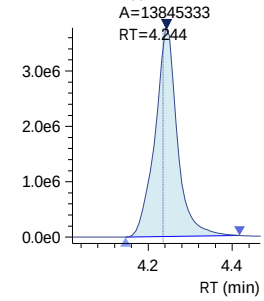
PFPeA-13C
Conc 5.0010
Q 267.90>223.00 (-) 3.68e5



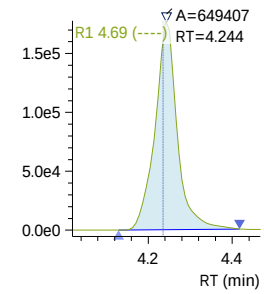
PFPeA-13C_IS
Conc 5.0000
ISTD 267.90>223.00 (-) 3.68e5



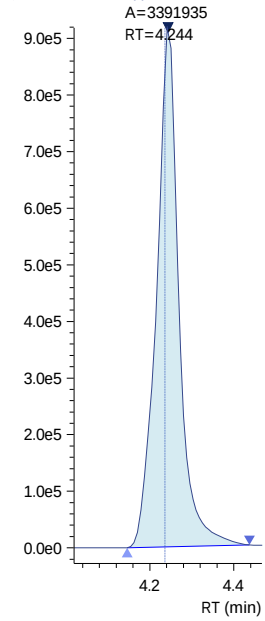
PFHxA
Conc 15.0650
R#1 4.69 (4.17)
Q 313.00>269.00 (-) 3.78e6



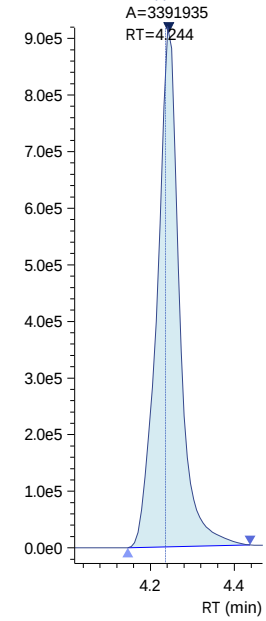
R1 313.00>119.10 (-) 1.78e5



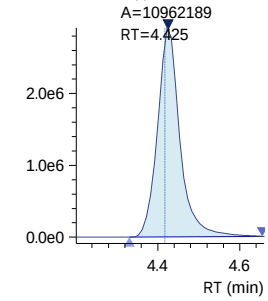
PFHxA-13C
Conc 5.0720
Q 314.90>270.10 (-) 9.19e5



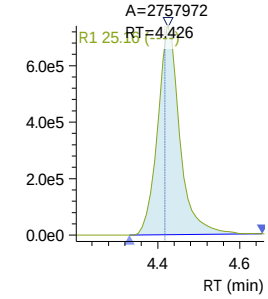
PFHxA-13C_IS
Conc 5.0000
ISTD 314.90>270.10 (-) 9.19e5



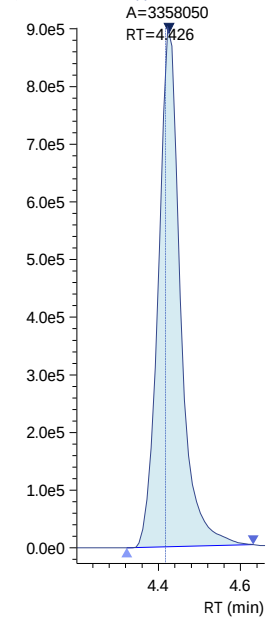
PFHpA
Conc 15.0121
R#1 25.16 (26.04)
Q 362.90>319.00 (-) 2.91e6



R1 362.90>169.00 (-) 7.41e5



PFHpA-13C
Conc 4.9457
Q 366.90>322.10 (-) 9.02e5



210819_027 (continued)

PFHpA-13C_IS
Conc 5.0000
ISTD 366.90>322.10 (-) 9.02e5
A=3358050
RT=4.426

PFOA
Conc 14.2005
R#1 30.24 (30.35)
Q 413.00>369.00 (-) 5.35e6
A=15922394
RT=4.595
R1 413.00>169.10 (-) 1.60e6
A=4814653
RT=4.595
R1 30.24 (-----)

PFOA-13C
Conc 4.8263
Q 416.80>372.05 (-) 1.21e6
A=3648123
RT=4.595

PFOA-13C_IS
Conc 5.0000
ISTD 416.80>372.05 (-) 1.21e6
A=3648123
RT=4.595

PFNA
Conc 15.3846
R#1 22.35 (22.35)
Q 463.00>418.90 (-) 3.35e6
A=10620421
RT=4.772
R1 463.00>219.00 (-) 7.47e5
A=2374040
RT=4.772
R1 22.35 (-----)

PFNA-13C
Conc 4.8503
Q 467.80>423.00 (-) 8.76e5
A=2796673
RT=4.772

PFNA-13C_IS
Conc 5.0000
ISTD 467.80>423.00 (-) 8.76e5
A=2796673
RT=4.772

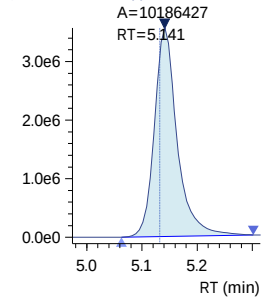
PFDA
Conc 15.5226
R#1 18.69 (18.73)
Q 513.00>468.80 (-) 3.28e6
A=9635111
RT=4.957
R1 513.00>219.10 (-) 6.13e5
A=1801066
RT=4.957
R1 18.69 (-----)

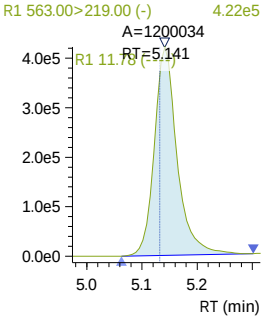
PFDA-13C
Conc 4.8694
Q 514.80>469.95 (-) 7.01e5
A=2075217
RT=4.957

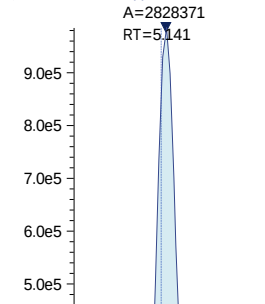
PFDA-13C_IS
Conc 5.0000
ISTD 514.80>469.95 (-) 7.01e5
A=2075217
RT=4.957

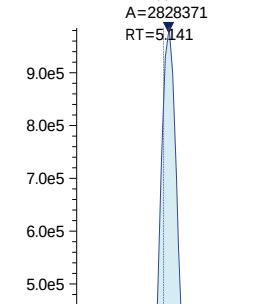
RT (min)

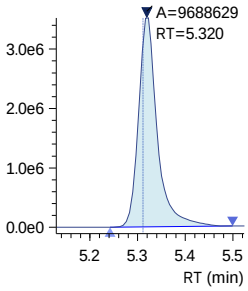
210819_027 (continued)

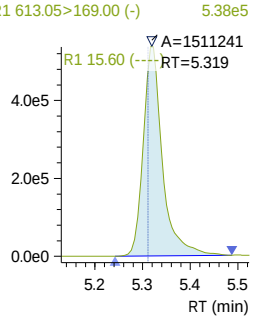
PFUnA
Conc 15.0765
R#1 11.78 (11.60)
Q 563.00>518.90 (-) 3.57e6


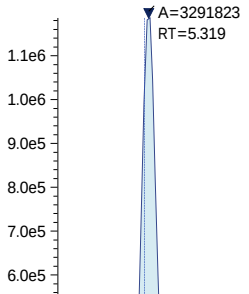
R1 563.00>219.00 (-) 4.22e5


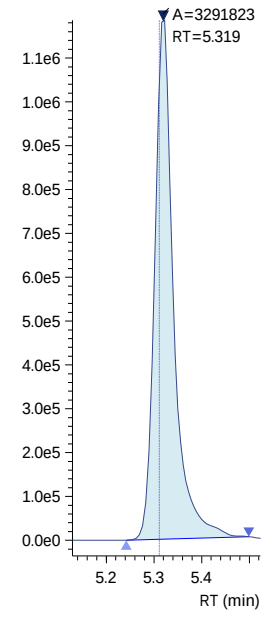
PFUnA-13C
Conc 4.9811
Q 564.80>519.95 (-) 9.85e5


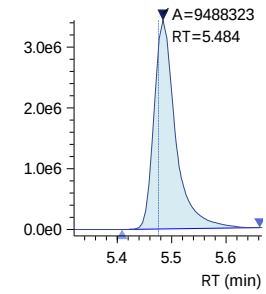
PFUnA-13C_IS
Conc 5.0000
ISTD 564.80>519.95 (-) 9.85e5


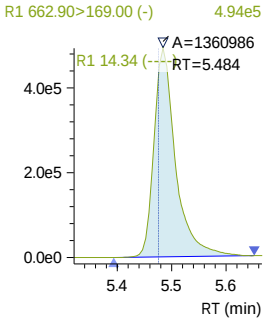
PFDoA
Conc 15.1267
R#1 15.60 (15.11)
Q 613.05>569.00 (-) 3.52e6


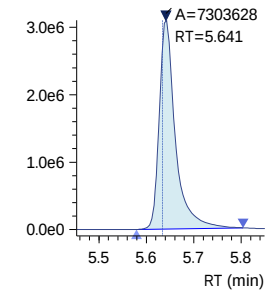
R1 613.05>169.00 (-) 5.38e5


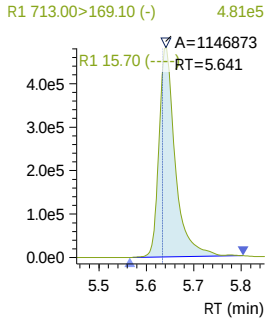
PFDoA-13C
Conc 5.2923
Q 614.80>569.95 (-) 1.19e6


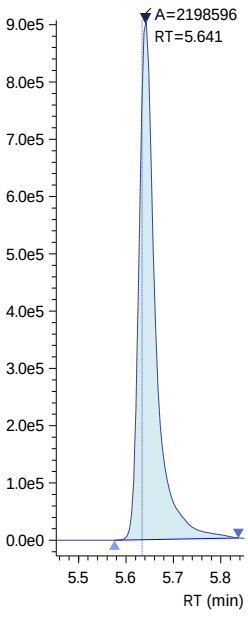
PFDoA-13C_IS
Conc 5.0000
ISTD 614.80>569.95 (-) 1.19e6


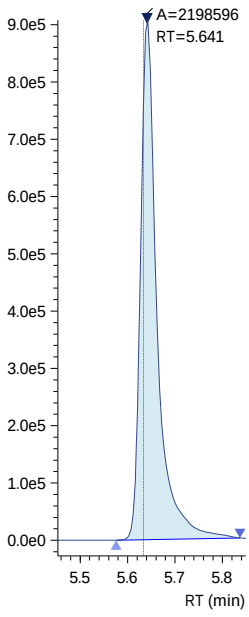
PFTrDA
Conc 14.5354
R#1 14.34 (14.19)
Q 663.00>618.90 (-) 3.44e6


R1 662.90>169.00 (-) 4.94e5


PFTeDA
Conc 14.7761
R#1 15.70 (14.98)
Q 713.00>669.00 (-) 3.11e6


R1 713.00>169.10 (-) 4.81e5


PFTeDA-13C
Conc 5.2232
Q 714.70>669.90 (-) 9.08e5


PFTeDA-13C_IS
Conc 5.0000
ISTD 714.70>669.90 (-) 9.08e5


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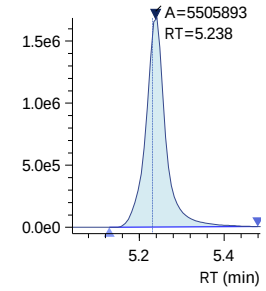
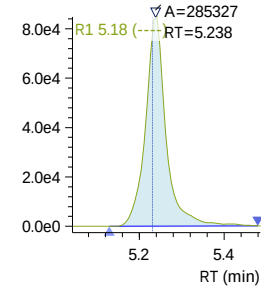
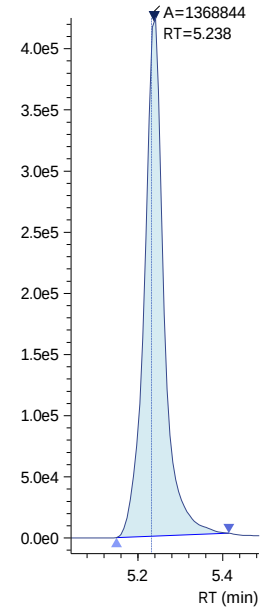
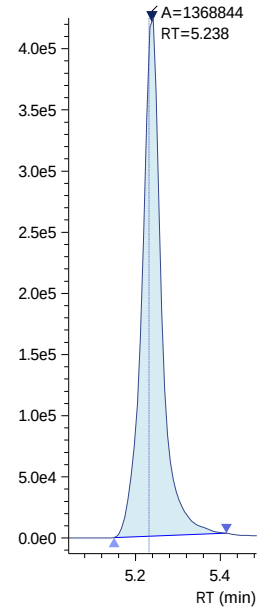
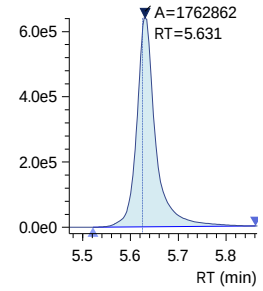
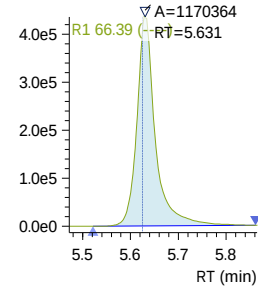
FOSA
Conc 15.8259
R#1 5.18 (4.89)
Q 498.20>78.00 (-) 1.69e6


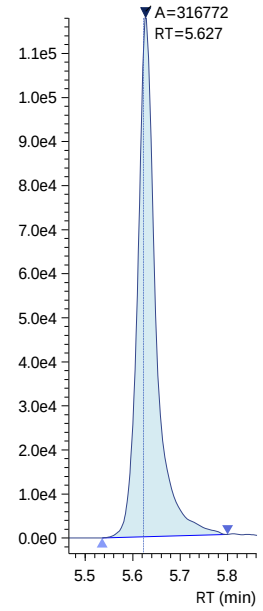
R1 498.20>64.10 (-) 8.48e4


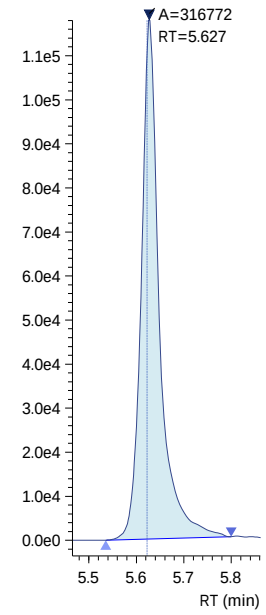
FOSA-13C
Conc 5.1066
Q 506.00>78.05 (-) 4.25e5


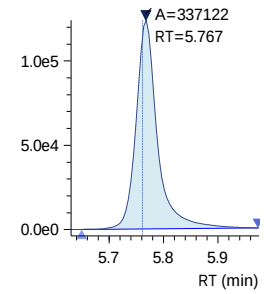
FOSA-13C_IS
Conc 5.0000
ISTD 506.00>78.05 (-) 4.25e5


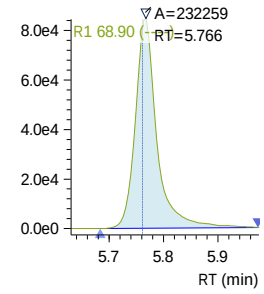
N-MeFOSA
Conc 14.8661
R#1 66.39 (62.72)
Q 512.00>169.10 (-) 6.42e5


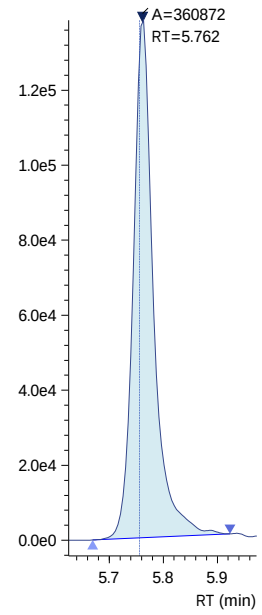
R1 512.00>219.00 (-) 4.36e5


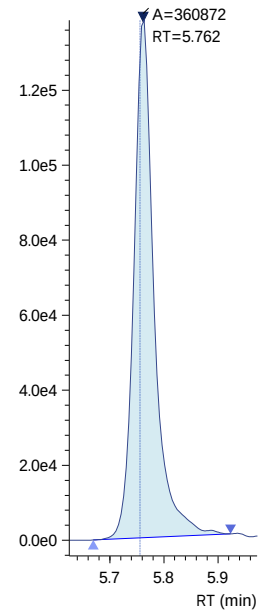
N-MeFOSA-d3
Conc 5.0823
Q 514.90>168.90 (-) 1.18e5


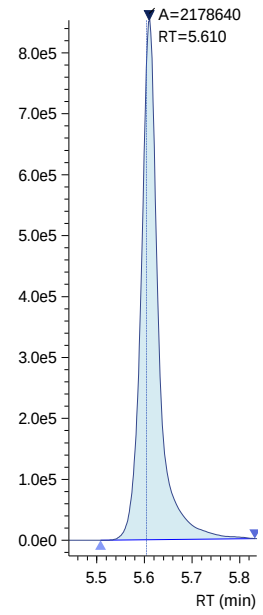
N-MeFOSA-d3_IS
Conc 5.0000
ISTD 514.90>168.90 (-) 1.18e5


N-EtFOSA
Conc 14.9069
R#1 68.90 (63.35)
Q 526.90>169.10 (-) 1.24e5


R1 526.90>219.00 (-) 8.45e4


N-EtFOSA-d9
Conc 5.0958
Q 530.90>169.15 (-) 1.39e5


N-EtFOSA-d9_IS
Conc 5.0000
ISTD 530.90>169.15 (-) 1.39e5


N-MeFOSE
Conc 15.2684
Q 616.00>59.00 (-) 8.54e5


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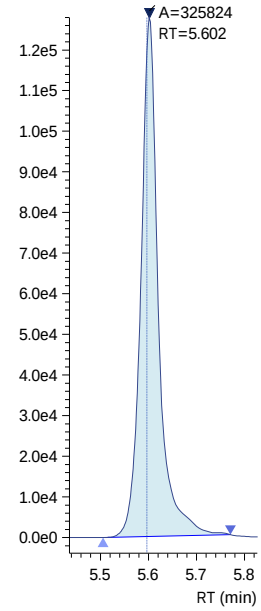
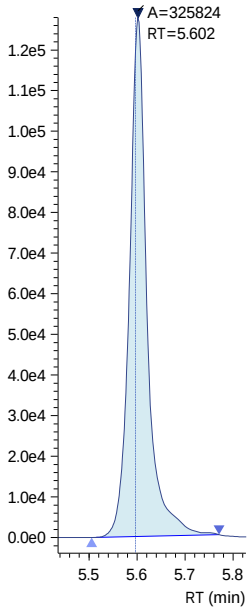
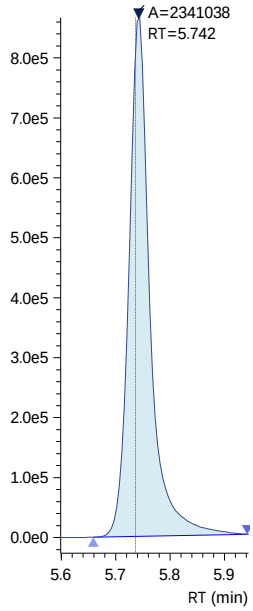
N-MeFOSE-d7
Conc 5.2275
Q 622.70>59.10 (-) 1.28e5



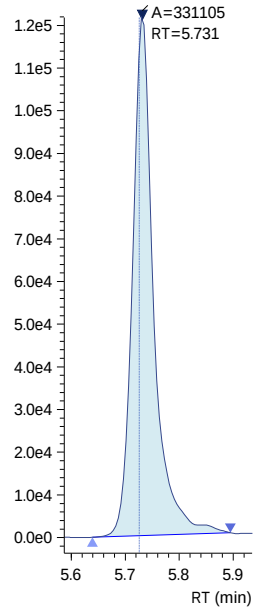
N-MeFOSE-d7_IS
Conc 5.0000
ISTD 622.70>59.10 (-) 1.28e5



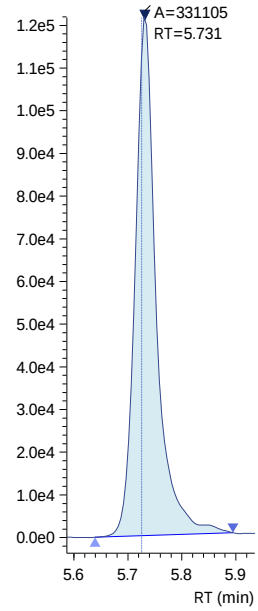
N-EtFOSE
Conc 15.4510
Q 630.00>58.90 (-) 8.67e5



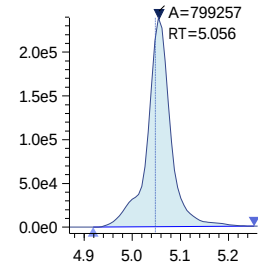
N-EtFOSE-d9
Conc 5.1310
Q 638.70>59.10 (-) 1.22e5



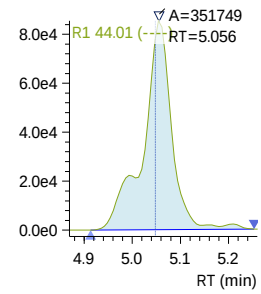
N-EtFOSE-d9_IS
Conc 5.0000
ISTD 638.70>59.10 (-) 1.22e5



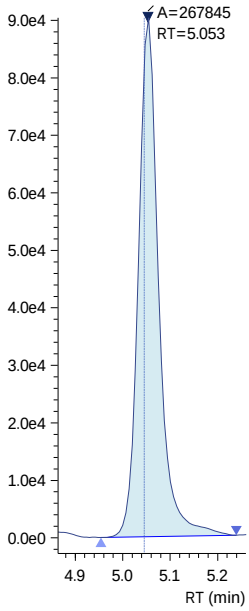
N-MeFOSAA
Conc 15.2136
R#1 44.01 (35.26)
Q 570.20>419.00 (-) 2.39e5



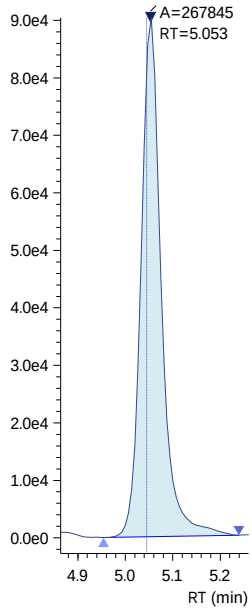
R1 570.20>512.00 (-) 8.55e4



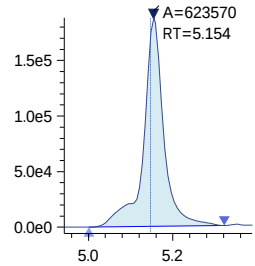
N-MeFOSAA-d3
Conc 5.2689
Q 572.80>419.05 (-) 9.04e4



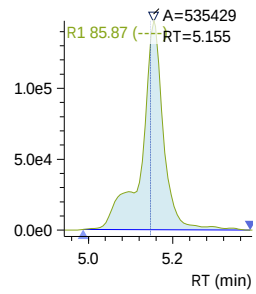
N-MeFOSAA-d3_IS
Conc 5.0000
ISTD 572.80>419.05 (-) 9.04e4



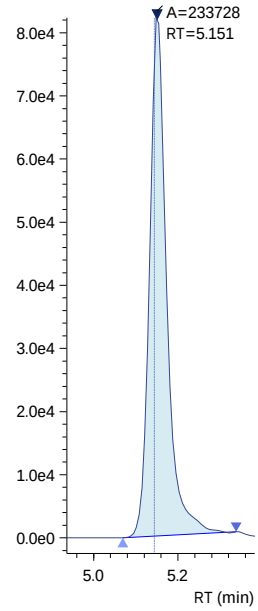
N-EtFOSAA
Conc 14.9941
R#1 85.87 (77.25)
Q 584.20>418.95 (-) 1.88e5



R1 584.20>526.10 (-) 1.48e5



N-EtFOSAA-d5
Conc 4.9389
Q 588.80>419.00 (-) 8.24e4



210819_027 (continued)

N-EtFOSAA-d5_IS
Conc 5.0000
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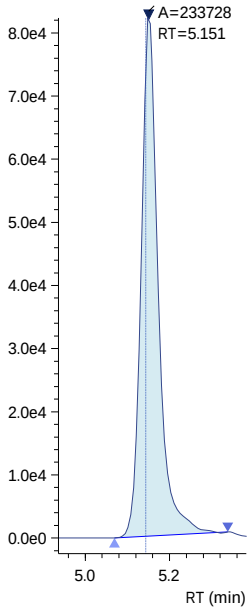
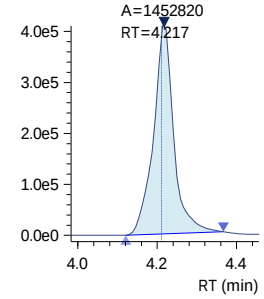
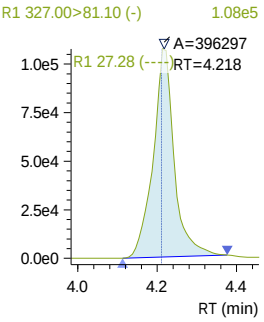


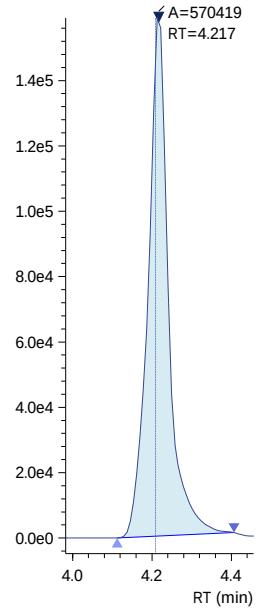
4_2-FTS_1
Conc 12.7128
R#1 27.28 (39.85)
Q 327.00>307.05 (-) 4.11e5



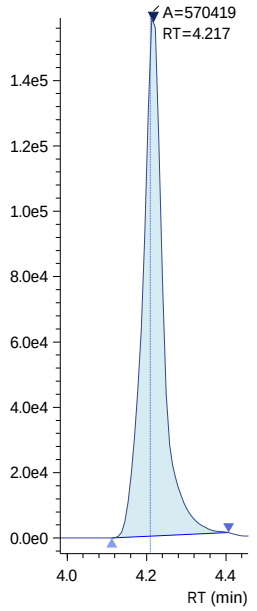
R1 327.00>81.10 (-) 1.08e5



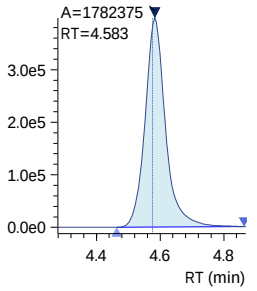
4_2-FTS-13C
Conc 5.5007
Q 328.80>309.05 (-) 1.59e5



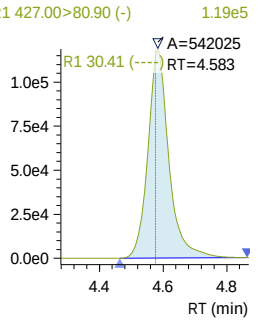
4_2-FTS-13C_IS
Conc 5.0000
ISTD 328.80>309.05 (-) 1.59e5



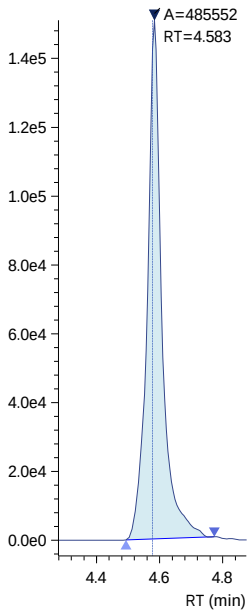
6_2-FTS_1
Conc 13.1966
R#1 30.41 (29.95)
Q 427.00>407.00 (-) 3.98e5



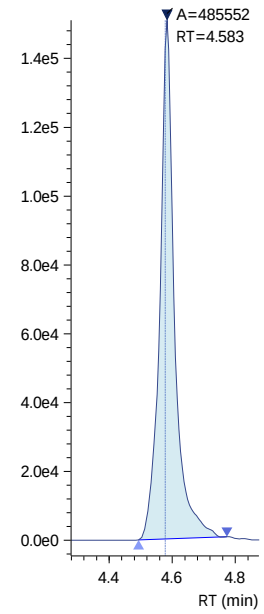
R1 427.00>80.90 (-) 1.19e5



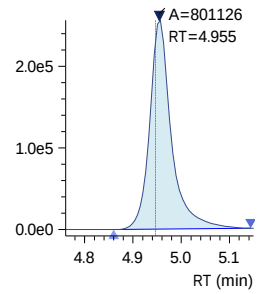
6_2-FTS-13C
Conc 4.9563
Q 428.90>409.00 (-) 1.51e5



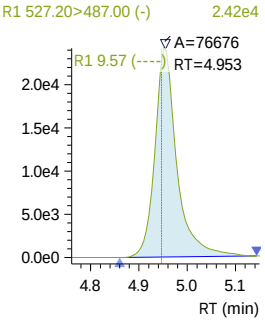
6_2-FTS-13C_IS
Conc 5.0000
ISTD 428.90>409.00 (-) 1.51e5



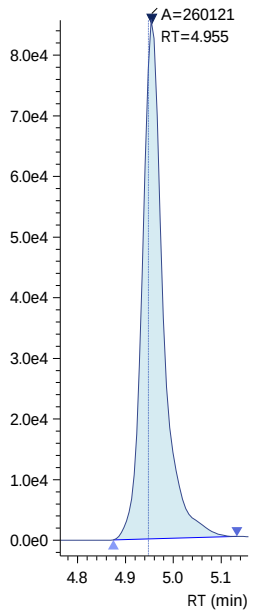
8_2-FTS_1
Conc 13.2412
R#1 9.57 (9.42)
Q 527.10>506.90 (-) 2.57e5



R1 527.20>487.00 (-) 2.42e4



8_2-FTS-13C
Conc 4.9886
Q 528.80>509.00 (-) 8.58e4



8_2-FTS-13C_IS
Conc 5.0000
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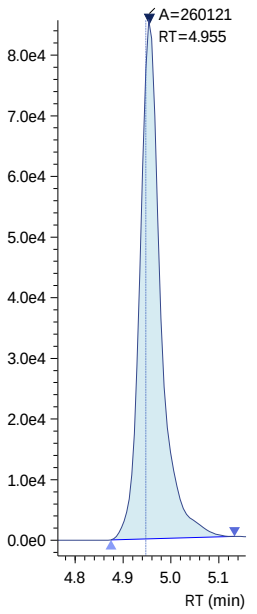
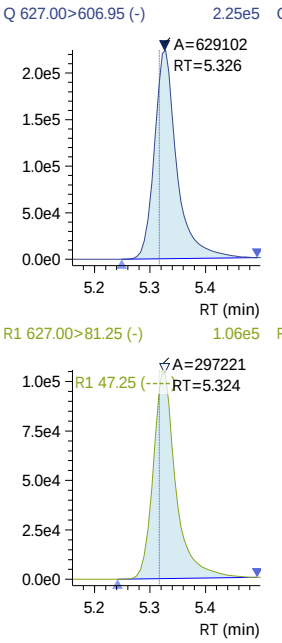
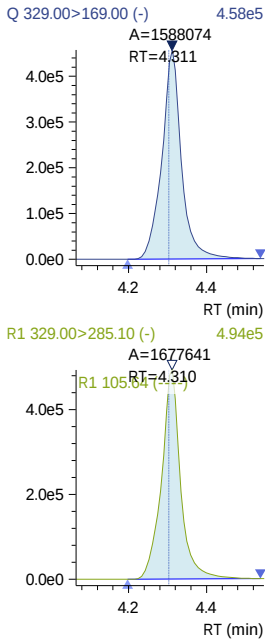


210819_027 (continued)

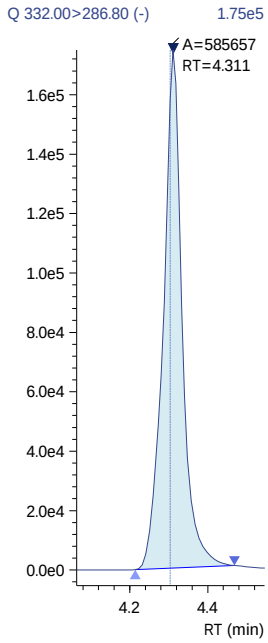
10_2-FtS_1
Conc 15.0306
R#1 47.25 (49.86)



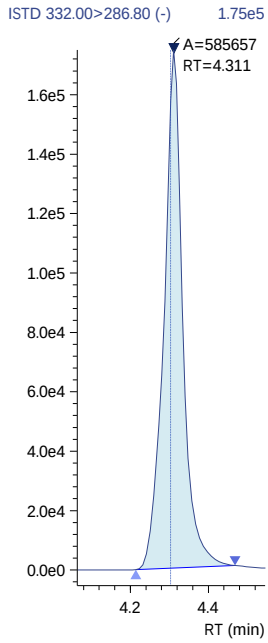
HPFO_DA
Conc 14.9073
R#1 105.64 (101.52)



HFPO_DA-13C
Conc 5.0229



HFPO_DA-13C_IS
Conc 5.0000

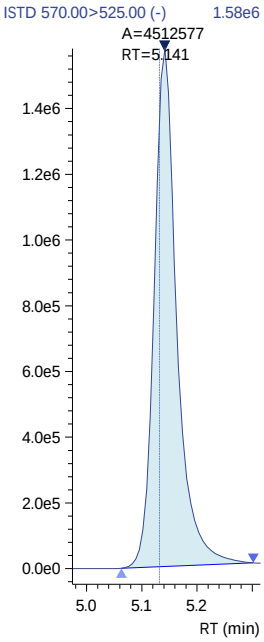


Insight Report
Before Manual Integration
Printed 8/20/2021 09:47:37

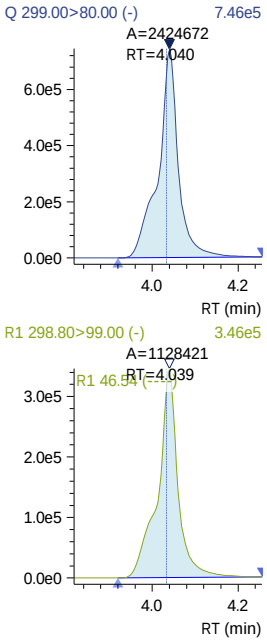
210819_027

Sample ID: PFC ICAL @ 15ppb
Date Acquired: 8/19/2021 7:52:30 PM
Acquired by: System Administrator
Data File: 210819_027
Vial: 7 | Inj. Volume: 15.0000uL | Tray: 0

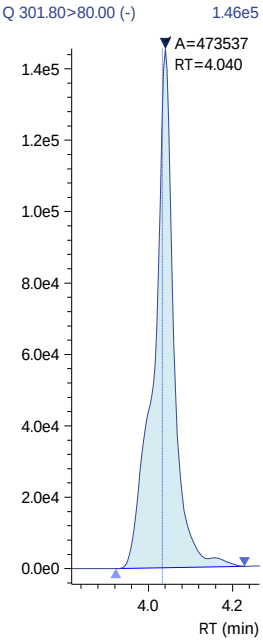
13C7-PFUnDA_IS
Conc 5.0000



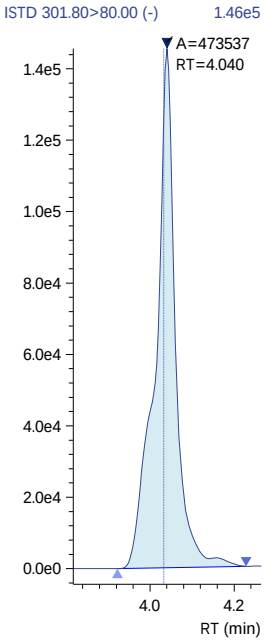
PFBS_1
Conc 14.0152
R#1 46.54 (48.11)



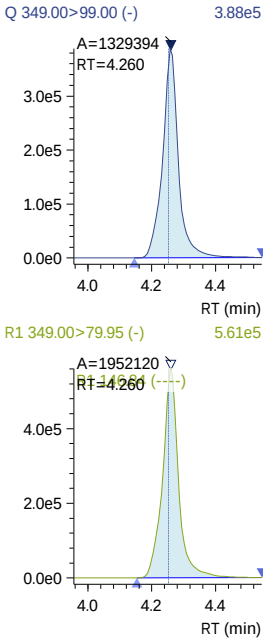
PFBS-13C
Conc 5.0863



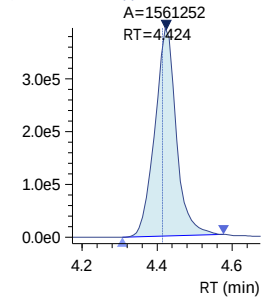
PFBS-13C_IS
Conc 5.0000

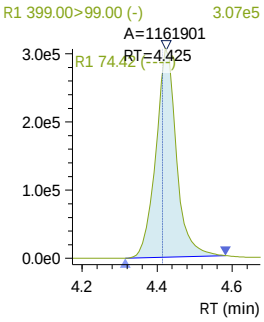


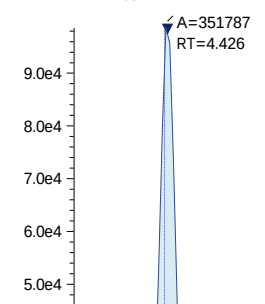
PFPeS
Conc 13.8801
R#1 146.84 (149.27)



210819_027 (continued)

PFHxS_1
Conc 12.0088
R#1 74.42 (83.10)
Q 399.00>80.00 (-) 3.96e5


R1 399.00>99.00 (-) 3.07e5


PFHxS-18O
Conc 5.5381
Q 402.70>84.05 (-) 9.86e4


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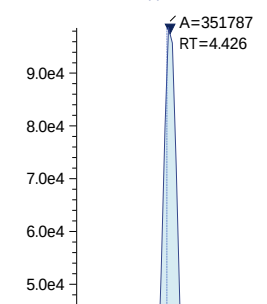
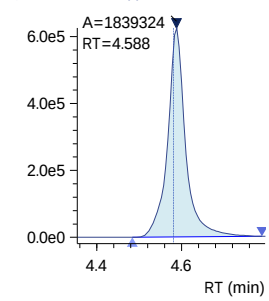
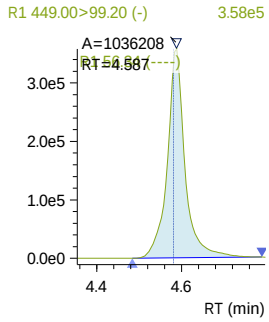
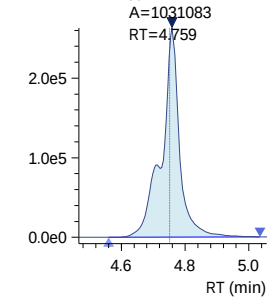
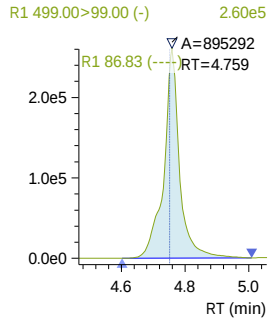
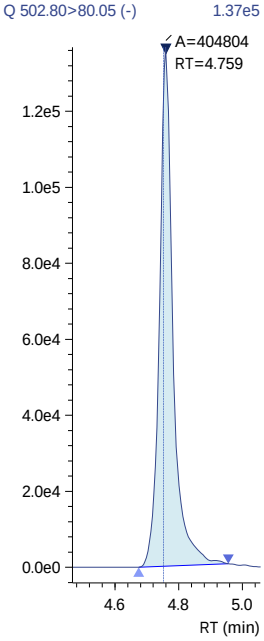
Conc 5.0000
ISTD 402.70>84.05 (-) 9.86e4


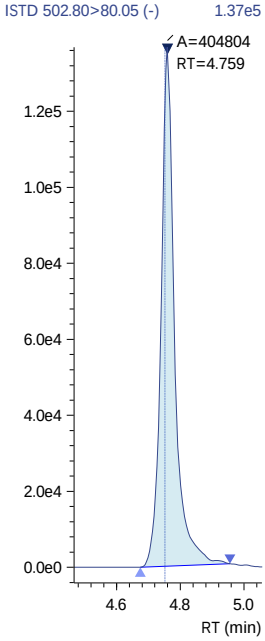
PFHpS_1
Conc 12.3001
R#1 56.34 (58.24)
Q 449.00>80.15 (-) 6.26e5


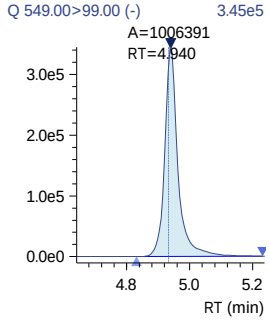
R1 449.00>99.20 (-) 3.58e5


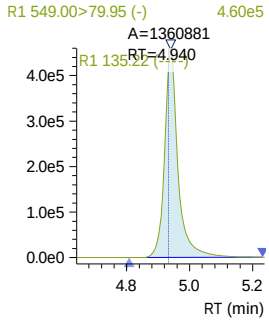
PFOS_1
Conc 13.1822
R#1 86.83 (87.63)
Q 499.00>80.00 (-) 2.63e5


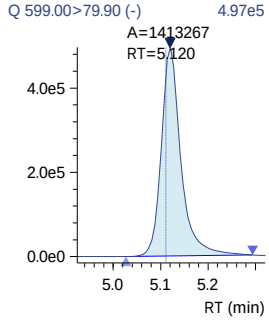
R1 499.00>99.00 (-) 2.60e5


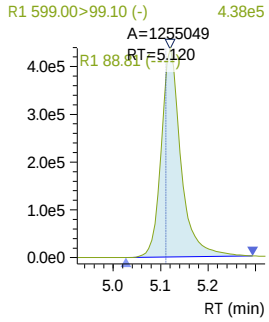
PFOS-13C
Conc 5.1276
Q 502.80>80.05 (-) 1.37e5


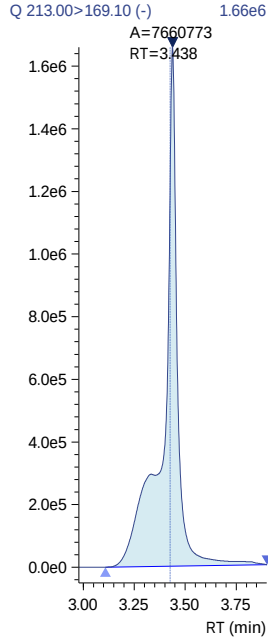
PFOS-13C_IS
Conc 5.0000
ISTD 502.80>80.05 (-) 1.37e5


PFNS
Conc 14.8172
R#1 135.22 (137.56)
Q 549.00>99.00 (-) 3.45e5


R1 549.00>79.95 (-) 4.60e5


PFDS_1
Conc 14.2547
R#1 88.81 (101.78)
Q 599.00>79.90 (-) 4.97e5


R1 599.00>99.10 (-) 4.38e5


PFBA
Conc 15.1018
Q 213.00>169.10 (-) 1.66e6


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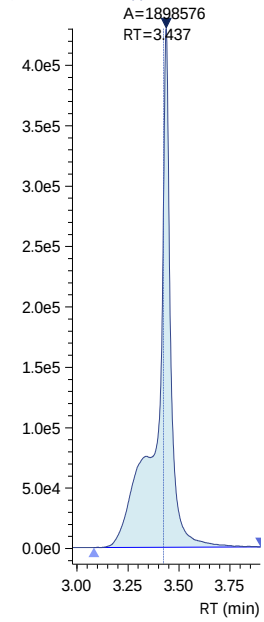
PFBA-13C
Conc 5.1513
Q 216.90>172.15 (-) 4.31e5



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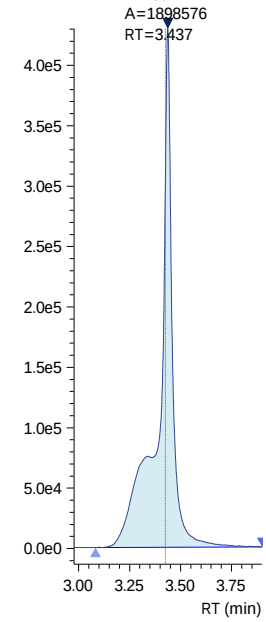
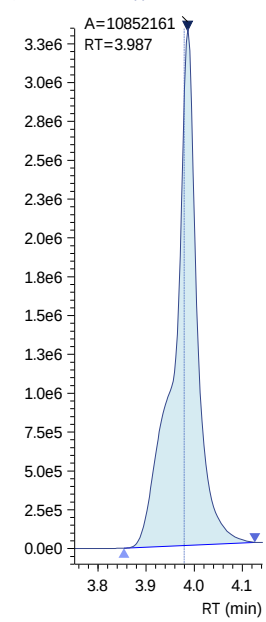
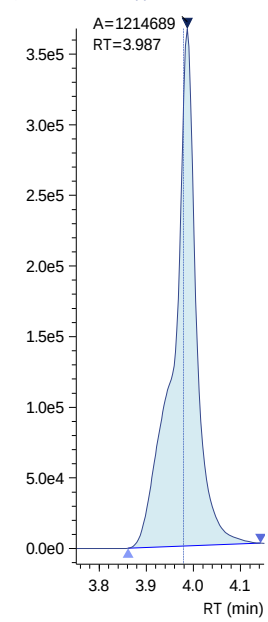
Conc 5.0000
ISTD 216.90>172.15 (-) 4.31e5



PFPeA
Conc 15.2711
Q 263.05>219.10 (-) 3.35e6



PFPeA-13C
Conc 5.0010
Q 267.90>223.00 (-) 3.68e5



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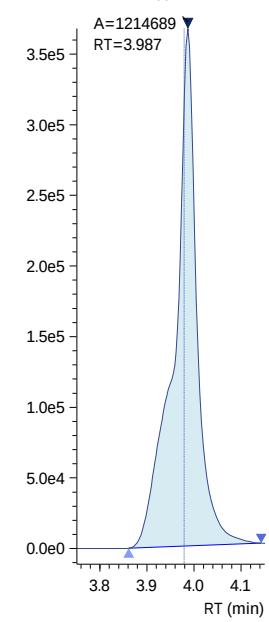
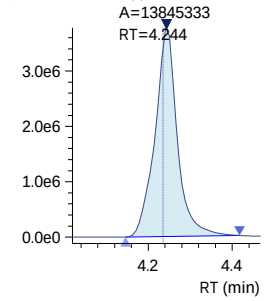
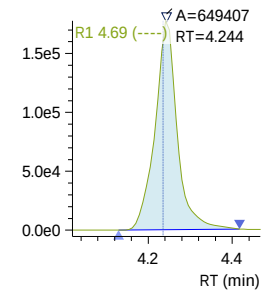
Conc 5.0000
ISTD 267.90>223.00 (-) 3.68e5



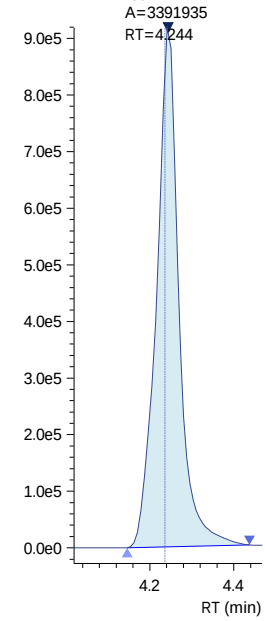
PFHxA
Conc 15.0223
R#1 4.69 (4.21)
Q 313.00>269.00 (-) 3.78e6



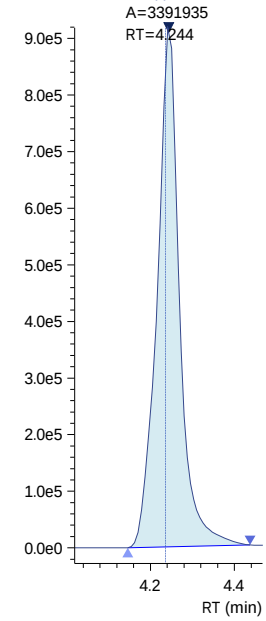
R1 313.00>119.10 (-) 1.78e5



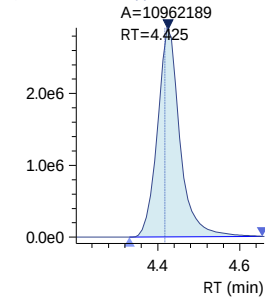
PFHxA-13C
Conc 5.0579
Q 314.90>270.10 (-) 9.19e5



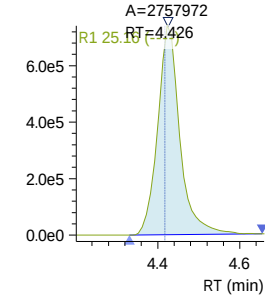
PFHxA-13C_IS
Conc 5.0000
ISTD 314.90>270.10 (-) 9.19e5



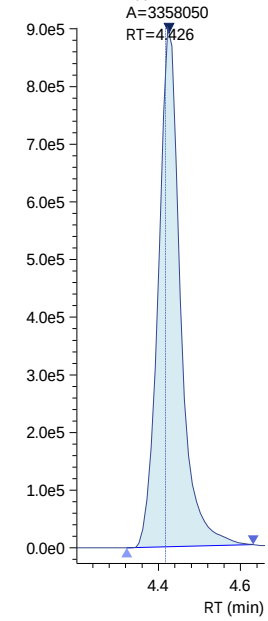
PFHpA
Conc 14.9263
R#1 25.16 (26.69)
Q 362.90>319.00 (-) 2.91e6



R1 362.90>169.00 (-) 7.41e5



PFHpA-13C
Conc 4.9457
Q 366.90>322.10 (-) 9.02e5



Insight Report
Before Manual Integration
Printed 8/20/2021 09:47:37

210819_027 (continued)

PFHpA-13C_IS
Conc 5.0000
ISTD 366.90>322.10 (-) 9.02e5
A=3358050
RT=4.426

PFOA
Conc 15.1368
R#1 30.24 (31.31)
Q 413.00>369.00 (-) 5.35e6
A=15922394
RT=4.595
R1 413.00>169.10 (-) 1.60e6
A=4814653
RT=4.595
R1 30.24 (-----)

PFOA-13C
Conc 4.8263
Q 416.80>372.05 (-) 1.21e6
A=3648123
RT=4.595

PFOA-13C_IS
Conc 5.0000
ISTD 416.80>372.05 (-) 1.21e6
A=3648123
RT=4.595

PFNA
Conc 15.2655
R#1 22.35 (20.54)
Q 463.00>418.90 (-) 3.35e6
A=10620421
RT=4.772
R1 463.00>219.00 (-) 7.47e5
A=2374040
RT=4.772
R1 22.35 (-----)

PFNA-13C
Conc 4.8503
Q 467.80>423.00 (-) 8.76e5
A=2796673
RT=4.772

PFNA-13C_IS
Conc 5.0000
ISTD 467.80>423.00 (-) 8.76e5
A=2796673
RT=4.772

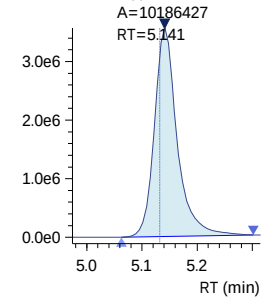
PFDA
Conc 15.5226
R#1 18.69 (20.01)
Q 513.00>468.80 (-) 3.28e6
A=9635111
RT=4.957
R1 513.00>219.10 (-) 6.13e5
A=1801066
RT=4.957
R1 18.69 (-----)

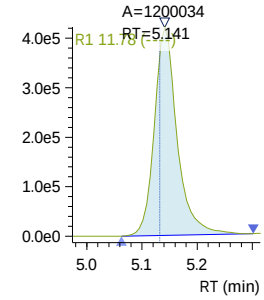
PFDA-13C
Conc 4.8694
Q 514.80>469.95 (-) 7.01e5
A=2075217
RT=4.957

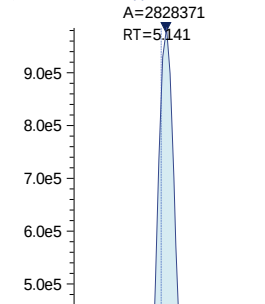
PFDA-13C_IS
Conc 5.0000
ISTD 514.80>469.95 (-) 7.01e5
A=2075217
RT=4.957

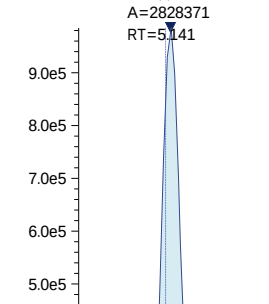
RT (min)

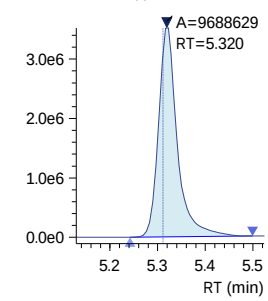
210819_027 (continued)

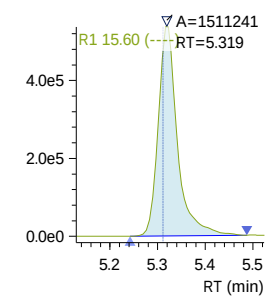
PFUnA
Conc 15.0765
R#1 11.78 (13.39)
Q 563.00>518.90 (-) 3.57e6


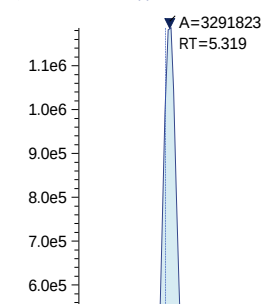
R1 563.00>219.00 (-) 4.22e5


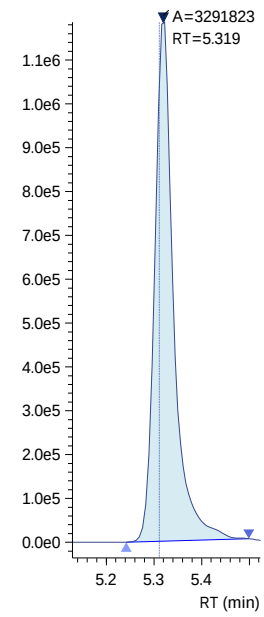
PFUnA-13C
Conc 4.9811
Q 564.80>519.95 (-) 9.85e5


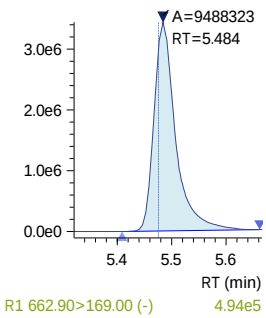
PFUnA-13C_IS
Conc 5.0000
ISTD 564.80>519.95 (-) 9.85e5


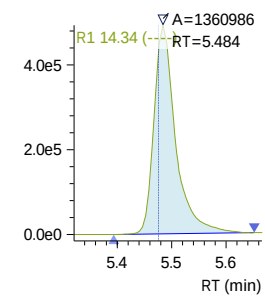
PFDoA
Conc 15.0797
R#1 15.60 (16.84)
Q 613.05>569.00 (-) 3.52e6


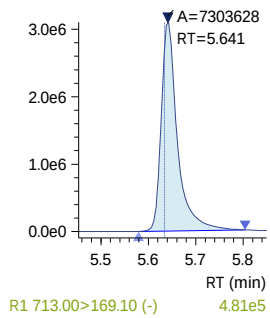
R1 613.05>169.00 (-) 5.38e5


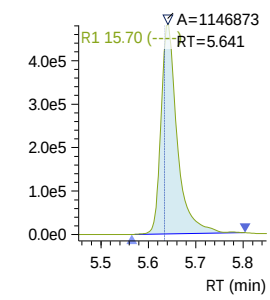
PFDoA-13C
Conc 5.2923
Q 614.80>569.95 (-) 1.19e6


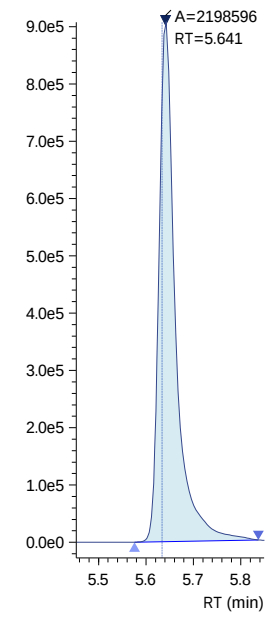
PFDoA-13C_IS
Conc 5.0000
ISTD 614.80>569.95 (-) 1.19e6


PFTrDA
Conc 14.5354
R#1 14.34 (16.76)
Q 663.00>618.90 (-) 3.44e6


R1 662.90>169.00 (-) 4.94e5


PFTeDA
Conc 14.5223
R#1 15.70 (16.56)
Q 713.00>669.00 (-) 3.11e6


R1 713.00>169.10 (-) 4.81e5


PFTeDA-13C
Conc 5.2232
Q 714.70>669.90 (-) 9.08e5


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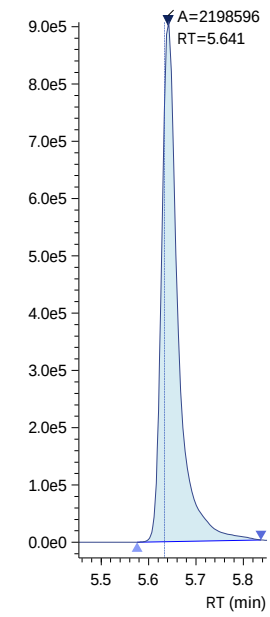
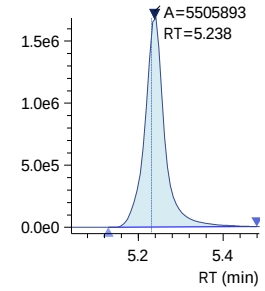
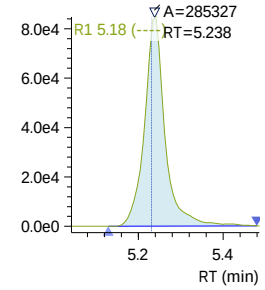
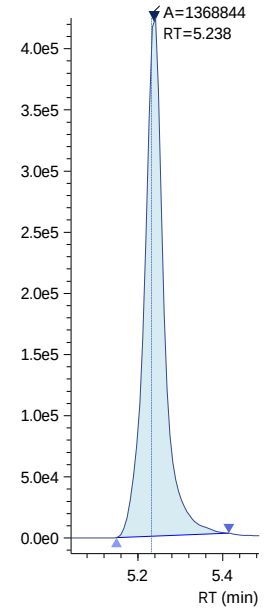
Conc 5.0000
ISTD 714.70>669.90 (-) 9.08e5


210819_027 (continued)

FOSA
Conc 15.5083
R#1 5.18 (4.59)
Q 498.20>78.00 (-) 1.69e6


R1 498.20>64.10 (-) 8.48e4


FOSA-13C
Conc 5.1066
Q 506.00>78.05 (-) 4.25e5


FOSA-13C_IS
Conc 5.0000
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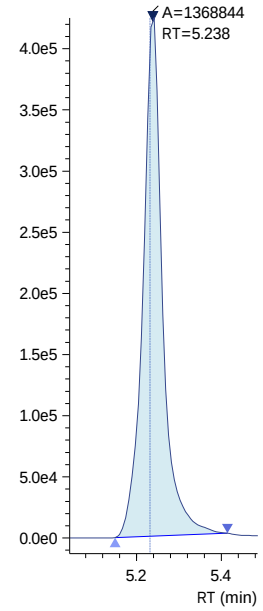
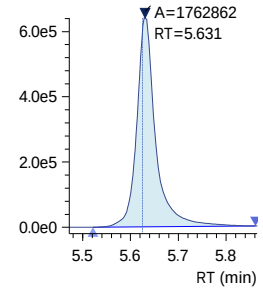
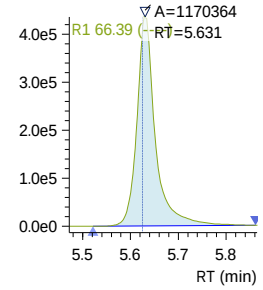
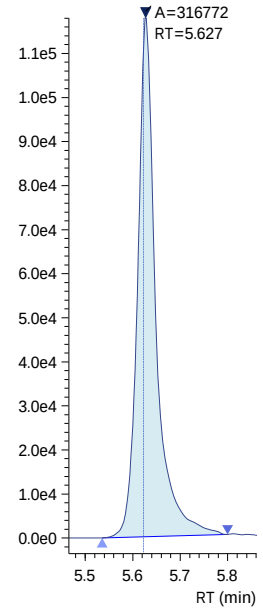


N-MeFOSA
Conc 13.5399
R#1 66.39 (68.73)
Q 512.00>169.10 (-) 6.42e5


R1 512.00>219.00 (-) 4.36e5


N-MeFOSA-d3
Conc 5.0823
Q 514.90>168.90 (-) 1.18e5


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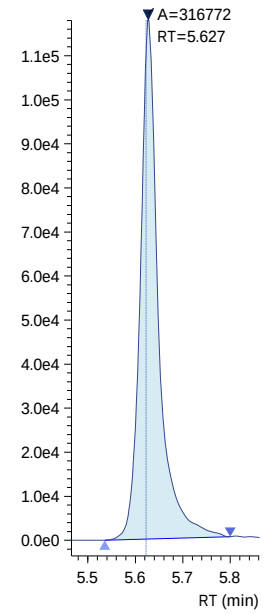
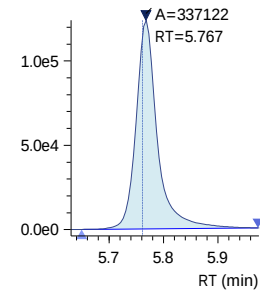
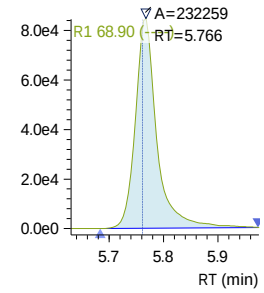
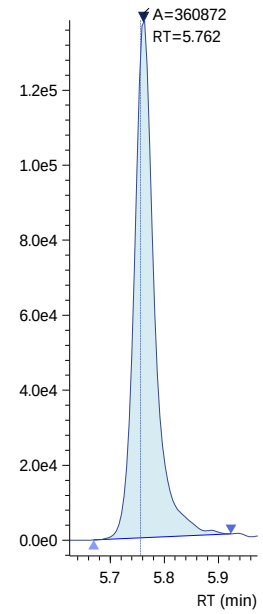


N-EtFOSA
Conc 14.9694
R#1 68.90 (62.10)
Q 526.90>169.10 (-) 1.24e5


R1 526.90>219.00 (-) 8.45e4


N-EtFOSA-d9
Conc 5.0958
Q 530.90>169.15 (-) 1.39e5


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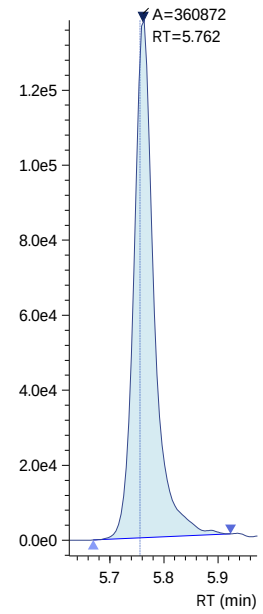
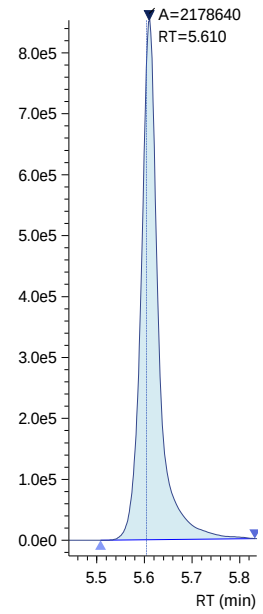
Conc 5.0000
ISTD 530.90>169.15 (-) 1.39e5


N-MeFOSE
Conc 14.9343
Q 616.00>59.00 (-) 8.54e5


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N-MeFOSE-d7
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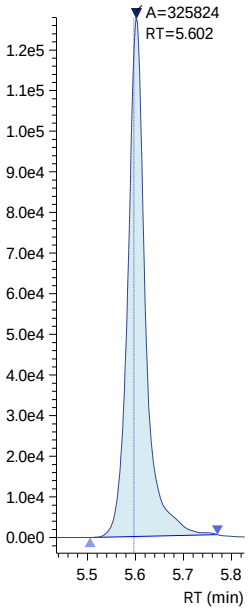
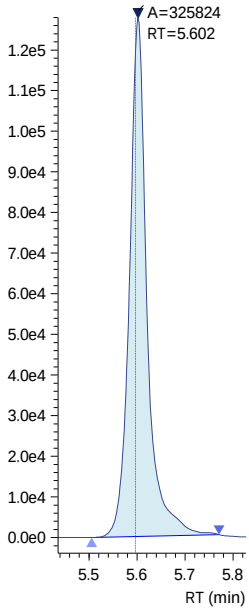
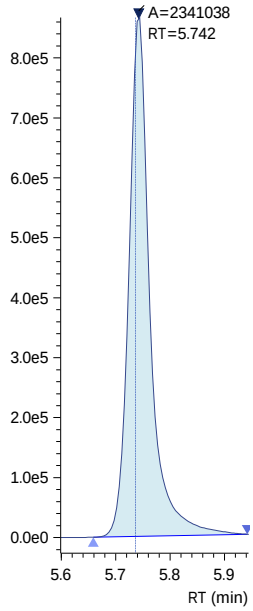
Q 622.70>59.10 (-) 1.28e5



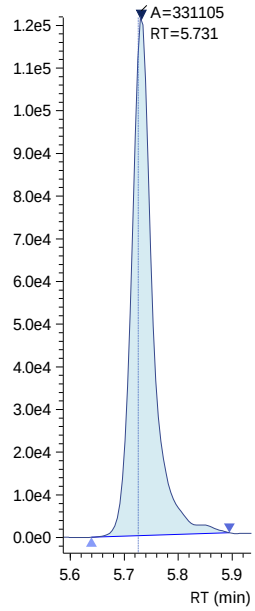
N-MeFOSE-d7_IS
Conc 5.0000
ISTD 622.70>59.10 (-) 1.28e5



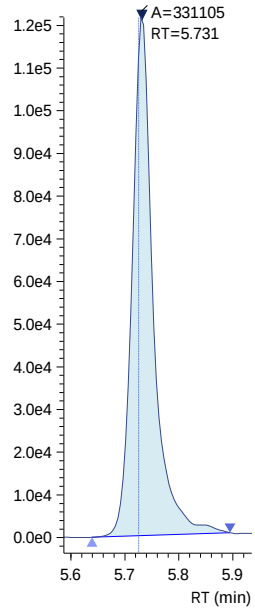
N-EtFOSE
Conc 15.0300
Q 630.00>58.90 (-) 8.67e5



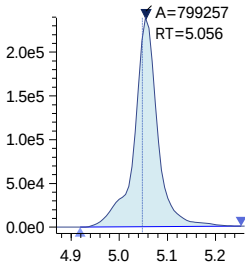
N-EtFOSE-d9
Conc 5.1310
Q 638.70>59.10 (-) 1.22e5



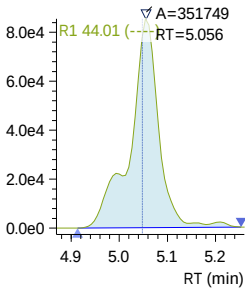
N-EtFOSE-d9_IS
Conc 5.0000
ISTD 638.70>59.10 (-) 1.22e5



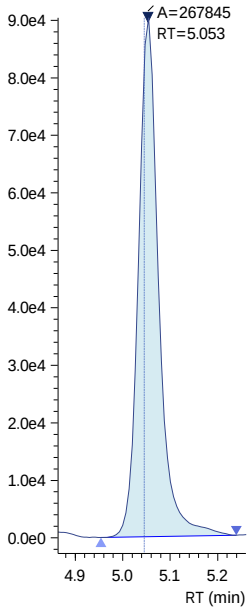
N-MeFOSAA
Conc 15.2696
R#1 44.01 (52.81)
Q 570.20>419.00 (-) 2.39e5



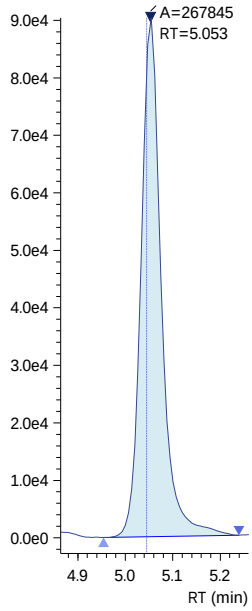
R1 570.20>512.00 (-) 8.55e4



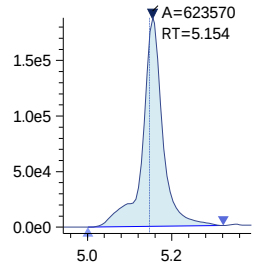
N-MeFOSAA-d3
Conc 5.2594
Q 572.80>419.05 (-) 9.04e4



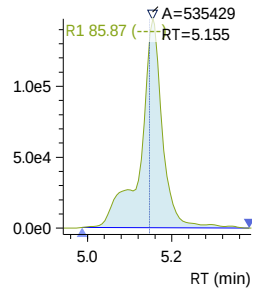
N-MeFOSAA-d3_IS
Conc 5.0000
ISTD 572.80>419.05 (-) 9.04e4



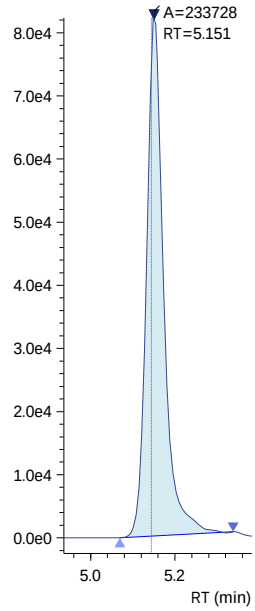
N-EtFOSAA
Conc 14.9854
R#1 85.87 (86.68)
Q 584.20>418.95 (-) 1.88e5



R1 584.20>526.10 (-) 1.48e5



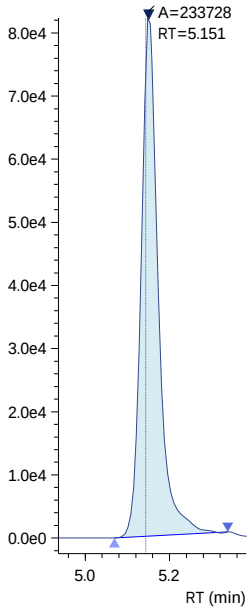
N-EtFOSAA-d5
Conc 4.9094
Q 588.80>419.00 (-) 8.24e4



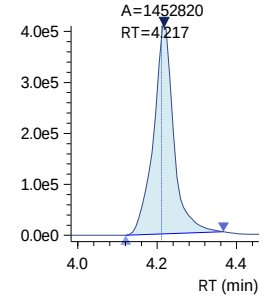
Insight Report
Before Manual Integration
Printed 8/20/2021 09:47:37

210819_027 (continued)

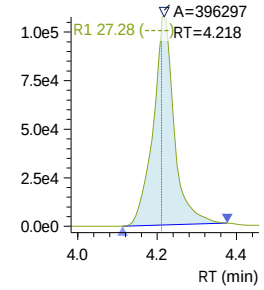
N-EtFOSAA-d5_IS
Conc 5.0000
ISTD 588.80>419.00 (-) 8.24e4



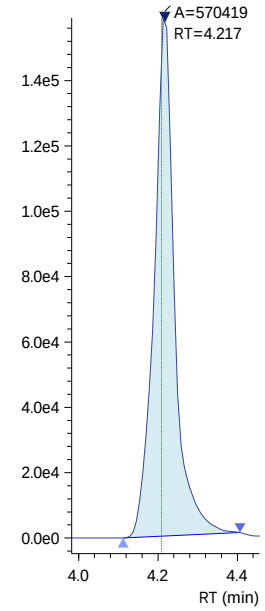
4_2-FTS_1
Conc 12.7128
R#1 27.28 (33.17)
Q 327.00>307.05 (-) 4.11e5



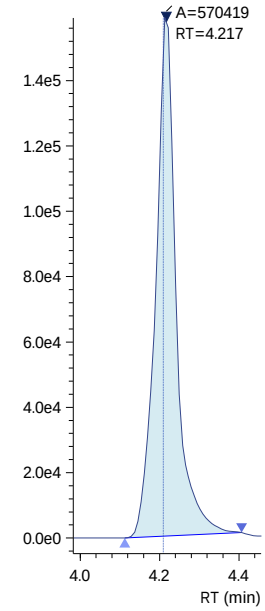
R1 327.00>81.10 (-) 1.08e5



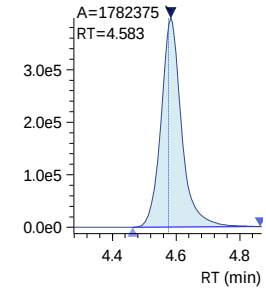
4_2-FTS-13C
Conc 5.5007
Q 328.80>309.05 (-) 1.59e5



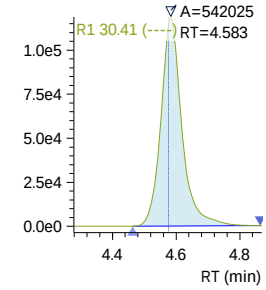
4_2-FTS-13C_IS
Conc 5.0000
ISTD 328.80>309.05 (-) 1.59e5



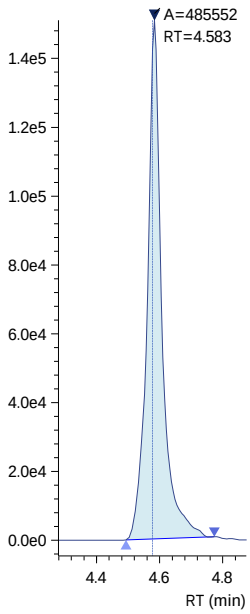
6_2-FTS_1
Conc 12.9811
R#1 30.41 (31.24)
Q 427.00>407.00 (-) 3.98e5



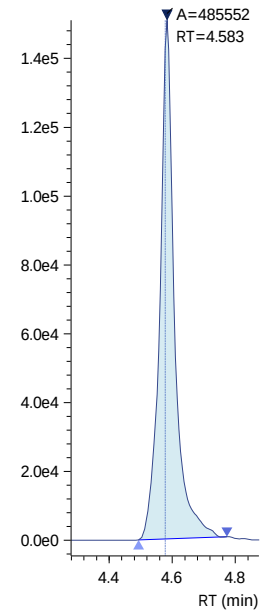
R1 427.00>80.90 (-) 1.19e5



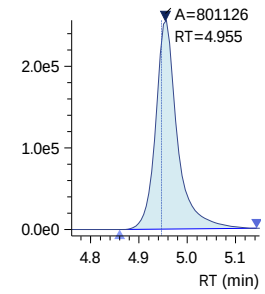
6_2-FTS-13C
Conc 4.9563
Q 428.90>409.00 (-) 1.51e5



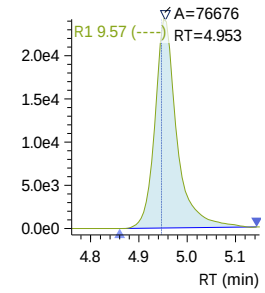
6_2-FTS-13C_IS
Conc 5.0000
ISTD 428.90>409.00 (-) 1.51e5



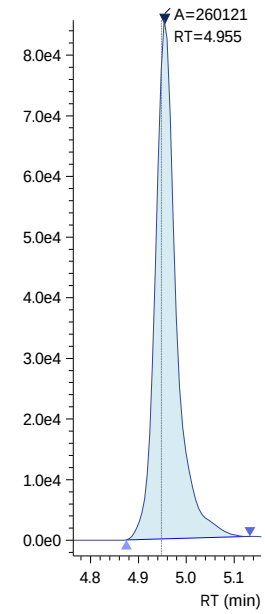
8_2-FTS_1
Conc 13.2412
R#1 9.57 (9.11)
Q 527.10>506.90 (-) 2.57e5



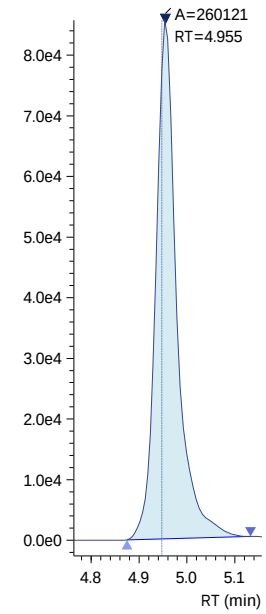
R1 527.20>487.00 (-) 2.42e4



8_2-FTS-13C
Conc 4.9886
Q 528.80>509.00 (-) 8.58e4

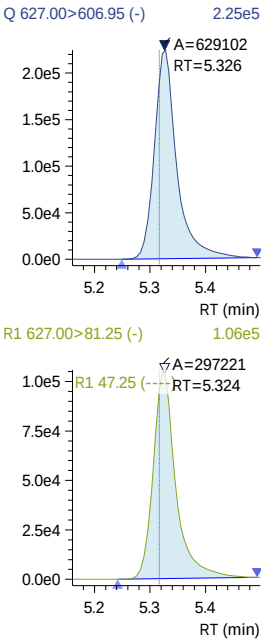


8_2-FTS-13C_IS
Conc 5.0000
ISTD 528.80>509.00 (-) 8.58e4

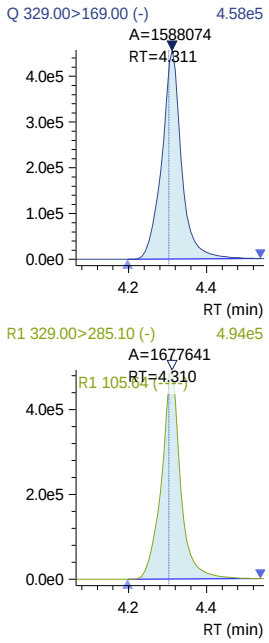


210819_027 (continued)

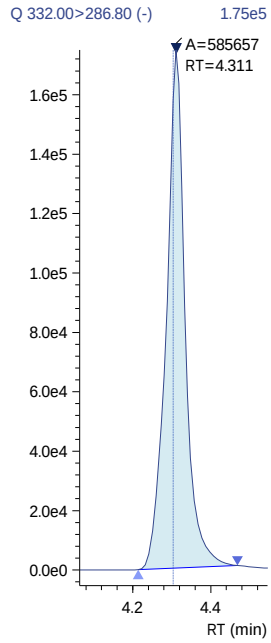
10_2-FtS_1
Conc 14.9342
R#1 47.25 (50.91)



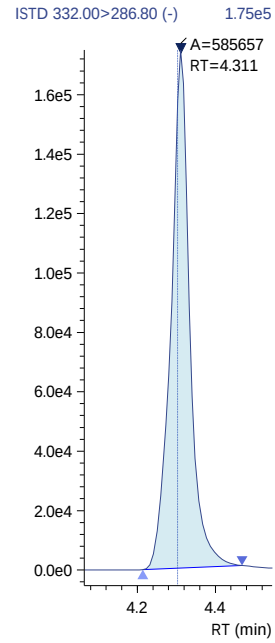
HPFO_DA
Conc 14.6427
R#1 105.64 (109.48)



HFPO_DA-13C
Conc 5.0229



HFPO_DA-13C_IS
Conc 5.0000



Insight Report
Retention Time/Signal:Noise Ratio Confirmation
Printed 8/20/2021 11:18:22

210819_028

Sample ID: CCB
Date Acquired: 8/19/2021 8:02:57 PM
Acquired by: System Administrator
Data File: 210819_028
Vial: 9 | Inj. Volume: 15.0000uL | Tray: 1

Name	m/z	Ref 1 m/z	Found RT	RT Diff	ISTD RT Diff	S/N	Ref 1 S/N	Flag ID
13C7-PFUnDA_IS	570.00>525.00	----	5.137	0.005	----	54108	----	
PFBS_1	299.00>80.00	298.80>99.00	4.034	0.001	-0.002	14	9	
PFBS-13C	301.80>80.00	----	4.036	0.003	-1.101	(INF)	----	
PFBS-13C_IS	301.80>80.00	----	4.036	0.003	----	(INF)	----	
PFPeS	349.00>99.00	349.00>79.95	----	----	----	----	----	
PFHxS_1	399.00>80.00	399.00>99.00	4.402	-0.012	-0.020	(INF)	10	
PFHxS-18O	402.70>84.05	----	4.422	0.004	-0.715	(INF)	----	
PFHxS-18O_IS	402.70>84.05	----	4.422	0.004	----	(INF)	----	
PFHpS_1	449.00>80.15	449.00>99.20	4.570	-0.011	0.148	214	3	
PFOS_1	499.00>80.00	499.00>99.00	4.732	-0.020	-0.025	3	6	IRr, SN
PFOS-13C	502.80>80.05	----	4.757	0.005	-0.380	(INF)	----	
PFOS-13C_IS	502.80>80.05	----	4.757	0.005	----	(INF)	----	
PFNS	549.00>99.00	549.00>79.95	4.946	0.013	0.189	2	(INF)	SN
PFDS_1	599.00>79.90	599.00>99.10	5.114	0.003	0.357	(INF)	5	
PFBA	213.00>169.10	----	----	----	----	----	----	
PFBA-13C	216.90>172.15	----	3.424	-0.001	-1.713	2305	----	
PFBA-13C_IS	216.90>172.15	----	3.424	-0.001	----	2305	----	
PFPeA	263.05>219.10	----	3.871	-0.108	-0.111	53	----	RTi
PFPeA-13C	267.90>223.00	----	3.982	0.003	-1.155	7553	----	
PFPeA-13C_IS	267.90>223.00	----	3.982	0.003	----	7553	----	
PFHxA	313.00>269.00	313.00>119.10	4.234	-0.002	-0.004	21	2	
PFHxA-13C	314.90>270.10	----	4.238	0.002	-0.899	18234	----	
PFHxA-13C_IS	314.90>270.10	----	4.238	0.002	----	18234	----	
PFHpA	362.90>319.00	362.90>169.00	4.421	0.004	0.000	10	(INF)	IRr
PFHpA-13C	366.90>322.10	----	4.421	0.004	-0.716	24991	----	
PFHpA-13C_IS	366.90>322.10	----	4.421	0.004	----	24991	----	
PFOA	413.00>369.00	413.00>169.10	4.573	-0.015	-0.018	25	9	
PFOA-13C	416.80>372.05	----	4.591	0.003	-0.546	30381	----	
PFOA-13C_IS	416.80>372.05	----	4.591	0.003	----	30381	----	
PFNA	463.00>418.90	463.00>219.00	----	----	----	----	----	
PFNA-13C	467.80>423.00	----	4.768	0.003	-0.369	63366	----	
PFNA-13C_IS	467.80>423.00	----	4.768	0.003	----	63366	----	
PFDA	513.00>468.80	513.00>219.10	4.959	0.010	0.005	6	10	SN
PFDA-13C	514.80>469.95	----	4.954	0.005	-0.183	147308	----	
PFDA-13C_IS	514.80>469.95	----	4.954	0.005	----	147308	----	
PFUnA	563.00>518.90	563.00>219.00	5.131	-0.002	-0.007	1	308	IRr, SN
PFUnA-13C	564.80>519.95	----	5.138	0.006	0.001	6652	----	
PFUnA-13C_IS	564.80>519.95	----	5.138	0.006	----	6652	----	
PFDoA	613.05>569.00	613.05>169.00	----	----	----	----	----	
PFDoA-13C	614.80>569.95	----	5.316	0.005	0.179	11536	----	
PFDoA-13C_IS	614.80>569.95	----	5.316	0.005	----	11536	----	
PFTrDA	663.00>618.90	662.90>169.00	----	----	----	----	----	
PFTeDA	713.00>669.00	713.00>169.10	----	----	----	----	----	
PFTeDA-13C	714.70>669.90	----	5.638	0.004	0.501	100928	----	
PFTeDA-13C_IS	714.70>669.90	----	5.638	0.004	----	103796	----	
FOSA	498.20>78.00	498.20>64.10	----	----	----	----	----	
FOSA-13C	506.00>78.05	----	5.237	0.006	0.100	1293	----	
FOSA-13C_IS	506.00>78.05	----	5.237	0.006	----	1293	----	
N-MeFOSA	512.00>169.10	512.00>219.00	5.620	-0.005	-0.007	7	7	SN
N-MeFOSA-d3	514.90>168.90	----	5.627	0.005	0.490	341	----	
N-MeFOSA-d3_IS	514.90>168.90	----	5.627	0.005	----	341	----	

J:\LCMS06\Data\210819_Curve\210819_Curve.DAMLP .

SN - Software-calculated S/N ratio outside criteria due to non-target peaks or drift in noise calculation window. Analyst review of noise levels (excluding non-target peaks) in chromatogram indicates S/N ratio meets criteria.

210819_028 (continued)

(Table continued from previous page)

Name	m/z	Ref 1 m/z	Found RT	RT Diff	ISTD RT Diff	S/N	Ref 1 S/N	Flag ID
N-EtFOSA	526.90>169.10	526.90>219.00	----	----	----	----	----	
N-EtFOSA-d9	530.90>169.15	----	5.760	0.004	0.623	(INF)	----	
N-EtFOSA-d9_IS	530.90>169.15	----	5.760	0.004	----	(INF)	----	
N-MeFOSE	616.00>59.00	----	----	----	----	----	----	
N-MeFOSE-d7	622.70>59.10	----	5.601	0.004	0.464	326	----	
N-MeFOSE-d7_IS	622.70>59.10	----	5.601	0.004	----	326	----	
N-EtFOSE	630.00>58.90	----	----	----	----	----	----	
N-EtFOSE-d9	638.70>59.10	----	5.730	0.004	0.593	917	----	
N-EtFOSE-d9_IS	638.70>59.10	----	5.730	0.004	----	917	----	
N-MeFOSAA	570.20>419.00	570.20>512.00	----	----	----	----	----	
N-MeFOSAA-d3	572.80>419.05	----	5.051	0.006	-0.086	(INF)	----	
N-MeFOSAA-d3_IS	572.80>419.05	----	5.051	0.006	----	(INF)	----	
N-EtFOSAA	584.20>418.95	584.20>526.10	----	----	----	----	----	
N-EtFOSAA-d5	588.80>419.00	----	5.148	0.004	0.011	(INF)	----	
N-EtFOSAA-d5_IS	588.80>419.00	----	5.148	0.004	----	(INF)	----	
4_2-FTS_1	327.00>307.05	327.00>81.10	4.246	0.036	0.033	(INF)	(INF)	IRr
4_2-FTS-13C	328.80>309.05	----	4.213	0.003	-0.924	(INF)	----	
4_2-FTS-13C_IS	328.80>309.05	----	4.213	0.003	----	(INF)	----	
6_2-FTS_1	427.00>407.00	427.00>80.90	----	----	----	----	----	
6_2-FTS-13C	428.90>409.00	----	4.581	0.003	-0.556	(INF)	----	
6_2-FTS-13C_IS	428.90>409.00	----	4.581	0.003	----	(INF)	----	
8_2-FTS_1	527.10>506.90	527.20>487.00	----	----	----	----	----	
8_2-FTS-13C	528.80>509.00	----	4.951	0.004	-0.186	(INF)	----	
8_2-FTS-13C_IS	528.80>509.00	----	4.951	0.004	----	(INF)	----	
10_2-FtS_1	627.00>606.95	627.00>81.25	5.348	0.031	0.397	(INF)	3	IRr
HPFO_DA	329.00>169.00	329.00>285.10	----	----	----	----	----	
HFPO_DA-13C	332.00>286.80	----	4.307	0.003	-0.830	40442	----	
HFPO_DA-13C_IS	332.00>286.80	----	4.307	0.003	----	40442	----	

Flag ID key: IRr: Ion Ratio (Relative), RTi: RT Diff (Absolute ISTD), SN: S/N

SN - Software-calculated S/N ratio outside criteria due to non-target peaks or drift in noise calculation window. Analyst review of noise levels (excluding non-target peaks) in chromatogram indicates S/N ratio meets criteria.

Insight Report
Ion Ratio Confirmation
Printed 8/20/2021 11:19:20

210819_028

Sample ID: CCB
Date Acquired: 8/19/2021 8:02:57 PM
Acquired by: System Administrator
Data File: 210819_028
Vial: 9 | Inj. Volume: 15.0000uL | Tray: 1

Name	m/z	Ref 1 m/z	Area	Ref 1 Measured	Ref 1 Actual Ratio	Ref 1 Set Ratio	Comment 1	Flag ID
13C7-PFUnDA_IS	570.00>525.00	----	5002259	----	----	----		
PFBS_1	299.00>80.00	298.80>99.00	487	266	54.62	47.76	23.88-71.64	
PFBS-13C	301.80>80.00	----	472281	----	----	----	0-0	
PFBS-13C_IS	301.80>80.00	----	472281	----	----	----	0-0	
PFPeS	349.00>99.00	349.00>79.95	----	0	0.00	136.08	68.04 -204.13	
PFHxS_1	399.00>80.00	399.00>99.00	2771	1663	60.01	71.26	35.63 -106.89	
PFHxS-18O	402.70>84.05	----	326335	----	----	----	0-0	
PFHxS-18O_IS	402.70>84.05	----	326335	----	----	----	0-0	
PFHpS_1	449.00>80.15	449.00>99.20	1561	787	50.42	53.84	26.92-80.76	
PFOS_1	499.00>80.00	499.00>99.00	324	1203	371.30	86.72	43.36 -130.08	IRr, SN
PFOS-13C	502.80>80.05	----	403233	----	----	----	0-0	
PFOS-13C_IS	502.80>80.05	----	403233	----	----	----	0-0	
PFNS	549.00>99.00	549.00>79.95	177	143	80.79	129.18	64.59 -193.78	SN
PFDS_1	599.00>79.90	599.00>99.10	311	354	114.00	90.77	45.38 -136.15	
PFBA	213.00>169.10	----	----	----	----	----		
PFBA-13C	216.90>172.15	----	1851030	----	----	----		
PFBA-13C_IS	216.90>172.15	----	1851030	----	----	----		
PFPeA	263.05>219.10	----	25677	----	----	----		RTi
PFPeA-13C	267.90>223.00	----	1263569	----	----	----	0-0	
PFPeA-13C_IS	267.90>223.00	----	1263569	----	----	----	0-0	
PFHxA	313.00>269.00	313.00>119.10	10957	360	3.29	4.17	2.08-6.25	
PFHxA-13C	314.90>270.10	----	3354281	----	----	----	0-0	
PFHxA-13C_IS	314.90>270.10	----	3354281	----	----	----	0-0	
PFHpA	362.90>319.00	362.90>169.00	2617	1460	55.79	26.04	13.02-39.07	IRr
PFHpA-13C	366.90>322.10	----	3497331	----	----	----	0-0	
PFHpA-13C_IS	366.90>322.10	----	3497331	----	----	----	0-0	
PFOA	413.00>369.00	413.00>169.10	27573	5792	21.01	30.35	15.18-45.53	
PFOA-13C	416.80>372.05	----	4100732	----	----	----	0-0	
PFOA-13C_IS	416.80>372.05	----	4100732	----	----	----	0-0	
PFNA	463.00>418.90	463.00>219.00	----	0	0.00	22.35	11.18-33.53	
PFNA-13C	467.80>423.00	----	3192893	----	----	----	0-0	
PFNA-13C_IS	467.80>423.00	----	3192893	----	----	----	0-0	
PFDA	513.00>468.80	513.00>219.10	2528	527	20.87	18.73	9.36-28.09	SN
PFDA-13C	514.80>469.95	----	2374310	----	----	----	0-0	
PFDA-13C_IS	514.80>469.95	----	2374310	----	----	----	0-0	
PFUnA	563.00>518.90	563.00>219.00	840	153	18.20	11.60	5.8-17.4	IRr, SN
PFUnA-13C	564.80>519.95	----	3220685	----	----	----	0-0	
PFUnA-13C_IS	564.80>519.95	----	3220685	----	----	----	0-0	
PFDoA	613.05>569.00	613.05>169.00	----	0	0.00	15.11	7.55-22.66	
PFDoA-13C	614.80>569.95	----	3411814	----	----	----	0-0	
PFDoA-13C_IS	614.80>569.95	----	3411814	----	----	----	0-0	
PFTrDA	663.00>618.90	662.90>169.00	----	0	0.00	14.19	7.09-21.28	
PFTeDA	713.00>669.00	713.00>169.10	----	0	0.00	14.98	7.49-22.46	
PFTeDA-13C	714.70>669.90	----	2392867	----	----	----	0-0	
PFTeDA-13C_IS	714.70>669.90	----	2392867	----	----	----	0-0	
FOSA	498.20>78.00	498.20>64.10	----	0	0.00	4.89	2.44-7.33	

J:\LCMS06\Data\210819_Curve\210819_Curve.DAMLP .

Comment 1 field specifies acceptance range for Ref 1 ratio.
IRr - Ion ratio outside criteria. Exceedances for results above the MDL to be "K" flagged in the analytical report.

Insight Report
Ion Ratio Confirmation
Printed 8/20/2021 11:19:20

210819_028 (continued)

(Table continued from previous page)

Name	m/z	Ref 1 m/z	Area	Ref 1 Measured	Ref 1 Actual Ratio	Ref 1 Set Ratio	Comment 1	Flag ID
FOSA-13C	506.00>78.05	----	1458181	----	----	----	0-0	
FOSA-13C_IS	506.00>78.05	----	1458181	----	----	----	0-0	
N-MeFOSA	512.00>169.10	512.00>219.00	1114	461	41.38	62.72	31.36-94.08	SN
N-MeFOSA-d3	514.90>168.90	----	321708	----	----	----	0-0	
N-MeFOSA-d3_IS	514.90>168.90	----	321708	----	----	----	0-0	
N-EtFOSA	526.90>169.10	526.90>219.00	----	0	0.00	63.35	31.68-95.03	
N-EtFOSA-d9	530.90>169.15	----	377240	----	----	----	0-0	
N-EtFOSA-d9_IS	530.90>169.15	----	377240	----	----	----	0-0	
N-MeFOSE	616.00>59.00	----	----	----	----	----		
N-MeFOSE-d7	622.70>59.10	----	322008	----	----	----		
N-MeFOSE-d7_IS	622.70>59.10	----	322008	----	----	----		
N-EtFOSE	630.00>58.90	----	----	----	----	----		
N-EtFOSE-d9	638.70>59.10	----	338926	----	----	----	0-0	
N-EtFOSE-d9_IS	638.70>59.10	----	338926	----	----	----	0-0	
N-MeFOSAA	570.20>419.00	570.20>512.00	----	0	0.00	35.26	17.63-52.88	
N-MeFOSAA-d3	572.80>419.05	----	275828	----	----	----	0-0	
N-MeFOSAA-d3 _IS	572.80>419.05	----	275828	----	----	----	0-0	
N-EtFOSAA	584.20>418.95	584.20>526.10	----	0	0.00	77.25	38.62 -115.87	
N-EtFOSAA-d5	588.80>419.00	----	266552	----	----	----	0-0	
N-EtFOSAA-d5_IS	588.80>419.00	----	266552	----	----	----	0-0	
4_2-FTS_1	327.00>307.05	327.00>81.10	175	4330	2479.15	39.85	19.92-59.77	IRr
4_2-FTS-13C	328.80>309.05	----	500096	----	----	----	0-0	
4_2-FTS-13C_IS	328.80>309.05	----	500096	----	----	----	0-0	
6_2-FTS_1	427.00>407.00	427.00>80.90	----	0	0.00	29.95	14.97-44.92	
6_2-FTS-13C	428.90>409.00	----	527434	----	----	----	0-0	
6_2-FTS-13C_IS	428.90>409.00	----	527434	----	----	----	0-0	
8_2-FTS_1	527.10>506.90	527.20>487.00	----	0	0.00	9.42	4.71-14.13	
8_2-FTS-13C	528.80>509.00	----	294855	----	----	----	0-0	
8_2-FTS-13C_IS	528.80>509.00	----	294855	----	----	----	0-0	
10_2-FtS_1	627.00>606.95	627.00>81.25	41	71	173.17	49.86	24.93-74.78	IRr
HPFO_DA	329.00>169.00	329.00>285.10	----	0	0.00	101.52	50.76 -152.28	
HFPO_DA-13C	332.00>286.80	----	613250	----	----	----		
HFPO_DA-13C_IS	332.00>286.80	----	613250	----	----	----		

Flag ID key: IRr: Ion Ratio (Relative), RTi: RT Diff (Absolute ISTD), SN: S/N

Comment 1 field specifies acceptance range for Ref 1 ratio.
IRr - Ion ratio outside criteria. Exceedances for results above the MDL to be "K" flagged in the analytical report.

Insight Report
Quantitation/Integration
Printed 8/20/2021 11:13:44

210819_028

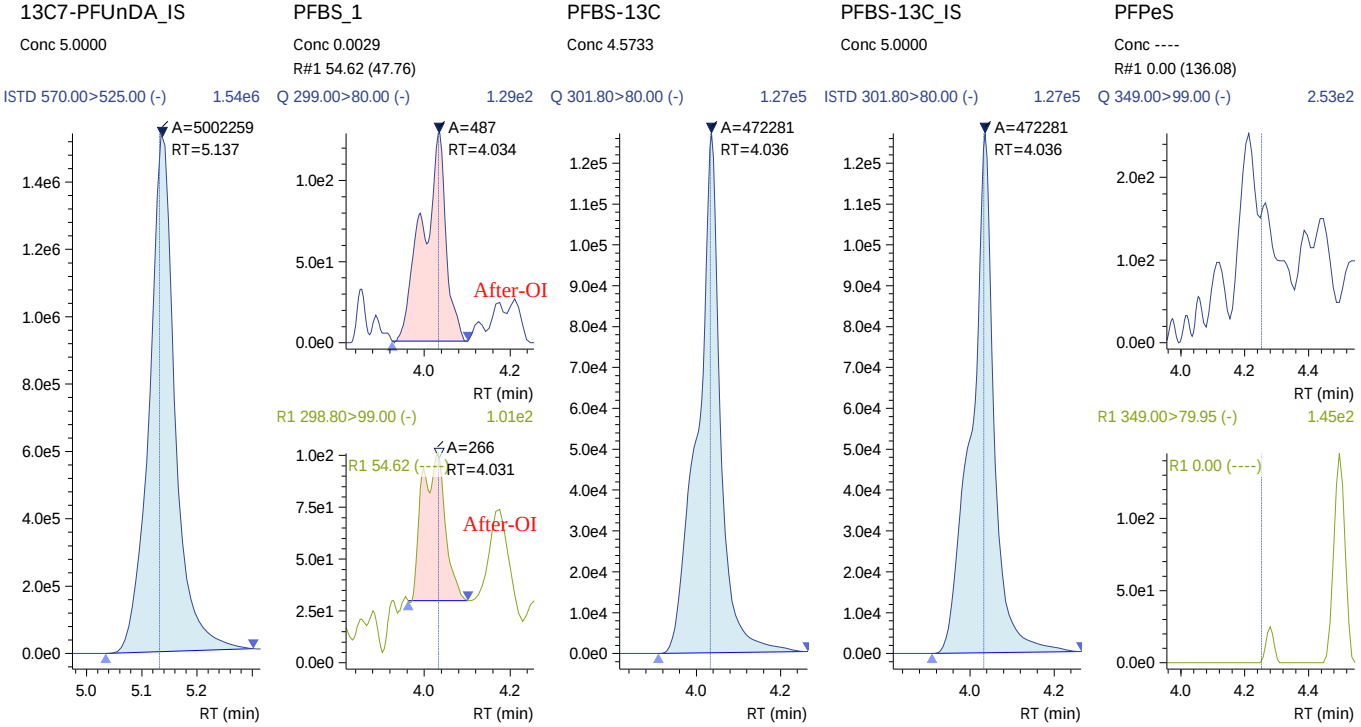
Sample ID: CCB
Date Acquired: 8/19/2021 8:02:57 PM
Acquired by: System Administrator
Data File: 210819_028
Vial: 9 | Inj. Volume: 15.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	ISTD Name	Std. Conc.	Conc.	Unit
13C7-PFUnDA_IS	Auto	5.137	5002259	5002259	----	----	5.0000	ng/mL
PFBS_1	M	4.034	487	472281	PFBS-13C_IS	----	0.0029	ng/mL
PFBS-13C	Auto	4.036	472281	5002259	13C7-PFUnDA_IS	----	4.5733	ng/mL
PFBS-13C_IS	Auto	4.036	472281	472281	----	----	5.0000	ng/mL
PFPeS	ND(W/B)	----	----	472281	PFBS-13C_IS	----	----	ng/mL
PFHxS_1	Auto	4.402	2771	326335	PFHxS-18O_IS	----	0.0040	ng/mL
PFHxS-18O	Auto	4.422	326335	5002259	13C7-PFUnDA_IS	----	4.6345	ng/mL
PFHxS-18O_IS	Auto	4.422	326335	326335	----	----	5.0000	ng/mL
PFHpS_1	M	4.570	1561	326335	PFHxS-18O_IS	----	0.0114	ng/mL
PFOS_1	MI R1	4.732	324	403233	PFOS-13C_IS	----	0.0043	ng/mL
PFOS-13C	Auto	4.757	403233	5002259	13C7-PFUnDA_IS	----	4.6077	ng/mL
PFOS-13C_IS	Auto	4.757	403233	403233	----	----	5.0000	ng/mL
PFNS	M	4.946	177	403233	PFOS-13C_IS	----	0.0026	ng/mL
PFDS_1	MI R1	5.114	311	403233	PFOS-13C_IS	----	0.0032	ng/mL
PFBA	ND(W/B)	----	----	1851030	PFBA-13C_IS	----	----	ng/mL
PFBA-13C	Auto	3.424	1851030	5002259	13C7-PFUnDA_IS	----	4.5306	ng/mL
PFBA-13C_IS	Auto	3.424	1851030	1851030	----	----	5.0000	ng/mL
PFPeA	M	3.871	25677	1263569	PFPeA-13C_IS	----	0.0320	ng/mL
PFPeA-13C	Auto	3.982	1263569	5002259	13C7-PFUnDA_IS	----	4.6930	ng/mL
PFPeA-13C_IS	Auto	3.982	1263569	1263569	----	----	5.0000	ng/mL
PFHxA	M	4.234	10957	3354281	PFHxA-13C_IS	----	0.0121	ng/mL
PFHxA-13C	Auto	4.238	3354281	5002259	13C7-PFUnDA_IS	----	4.5247	ng/mL
PFHxA-13C_IS	Auto	4.238	3354281	3354281	----	----	5.0000	ng/mL
PFHpA	M	4.421	2617	3497331	PFHpA-13C_IS	----	0.0034	ng/mL
PFHpA-13C	Auto	4.421	3497331	5002259	13C7-PFUnDA_IS	----	4.6466	ng/mL
PFHpA-13C_IS	Auto	4.421	3497331	3497331	----	----	5.0000	ng/mL
PFOA	M	4.573	27573	4100732	PFOA-13C_IS	----	0.0219	ng/mL
PFOA-13C	Auto	4.591	4100732	5002259	13C7-PFUnDA_IS	----	4.8940	ng/mL
PFOA-13C_IS	Auto	4.591	4100732	4100732	----	----	5.0000	ng/mL
PFNA	ND(W/B)	----	----	3192893	PFNA-13C_IS	----	----	ng/mL
PFNA-13C	Auto	4.768	3192893	5002259	13C7-PFUnDA_IS	----	4.9954	ng/mL
PFNA-13C_IS	Auto	4.768	3192893	3192893	----	----	5.0000	ng/mL
PFDA	M	4.959	2528	2374310	PFDA-13C_IS	----	0.0036	ng/mL
PFDA-13C	Auto	4.954	2374310	5002259	13C7-PFUnDA_IS	----	5.0258	ng/mL
PFDA-13C_IS	Auto	4.954	2374310	2374310	----	----	5.0000	ng/mL
PFUnA	M	5.131	840	3220685	PFUnA-13C_IS	----	0.0011	ng/mL
PFUnA-13C	Auto	5.138	3220685	5002259	13C7-PFUnDA_IS	----	5.1167	ng/mL
PFUnA-13C_IS	Auto	5.138	3220685	3220685	----	----	5.0000	ng/mL
PFDoA	ND(W/B)	----	----	3411814	PFDoA-13C_IS	----	----	ng/mL
PFDoA-13C	Auto	5.316	3411814	5002259	13C7-PFUnDA_IS	----	4.9483	ng/mL
PFDoA-13C_IS	Auto	5.316	3411814	3411814	----	----	5.0000	ng/mL
PFTrDA	ND(W/B)	----	----	2392867	PFTeDA-13C_IS	----	----	ng/mL
PFTeDA	ND(W/B)	----	----	2392867	PFTeDA-13C_IS	----	----	ng/mL
PFTeDA-13C	Auto	5.638	2392867	5002259	13C7-PFUnDA_IS	----	5.1283	ng/mL
PFTeDA-13C_IS	Auto	5.638	2392867	2392867	----	----	5.0000	ng/mL
FOSA	ND(W/B)	----	----	1458181	FOSA-13C_IS	----	----	ng/mL
FOSA-13C	Auto	5.237	1458181	5002259	13C7-PFUnDA_IS	----	4.9073	ng/mL
FOSA-13C_IS	Auto	5.237	1458181	1458181	----	----	5.0000	ng/mL
N-MeFOSA	M	5.620	1114	321708	N-MeFOSA-d3_IS	----	0.0093	ng/mL
N-MeFOSA-d3	Auto	5.627	321708	5002259	13C7-PFUnDA_IS	----	4.6562	ng/mL
N-MeFOSA-d3_IS	Auto	5.627	321708	321708	----	----	5.0000	ng/mL
N-EtFOSA	ND(W/B)	----	----	377240	N-EtFOSA-d9_IS	----	----	ng/mL
N-EtFOSA-d9	Auto	5.760	377240	5002259	13C7-PFUnDA_IS	----	4.8054	ng/mL
N-EtFOSA-d9_IS	Auto	5.760	377240	377240	----	----	5.0000	ng/mL

210819_028 (continued)

(Table continued from previous page)

Name	Mode ID	Found RT	Area	ISTD Area	ISTD Name	Std. Conc.	Conc.	Unit
N-MeFOSE	ND(W/B)	----	----	322008	N-MeFOSE-d7_IS	----	----	ng/mL
N-MeFOSE-d7	Auto	5.601	322008	5002259	13C7-PFUnDA_IS	----	4.6605	ng/mL
N-MeFOSE-d7_IS	Auto	5.601	322008	322008	----	----	5.0000	ng/mL
N-EtFOSE	ND(W/B)	----	----	338926	N-EtFOSE-d9_IS	----	----	ng/mL
N-EtFOSE-d9	Auto	5.730	338926	5002259	13C7-PFUnDA_IS	----	4.7381	ng/mL
N-EtFOSE-d9_IS	Auto	5.730	338926	338926	----	----	5.0000	ng/mL
N-MeFOSAA	ND(W/B)	----	----	275828	N-MeFOSAA-d3_IS	----	----	ng/mL
N-MeFOSAA-d3	Auto	5.051	275828	5002259	13C7-PFUnDA_IS	----	4.8948	ng/mL
N-MeFOSAA-d3_IS	Auto	5.051	275828	275828	----	----	5.0000	ng/mL
N-EtFOSAA	ND(W/B)	----	----	266552	N-EtFOSAA-d5_IS	----	----	ng/mL
N-EtFOSAA-d5	Auto	5.148	266552	5002259	13C7-PFUnDA_IS	----	5.0811	ng/mL
N-EtFOSAA-d5_IS	Auto	5.148	266552	266552	----	----	5.0000	ng/mL
4_2-FTS_1	MI R1	4.246	175	500096	4_2-FTS-13C_IS	----	0.0017	ng/mL
4_2-FTS-13C	Auto	4.213	500096	5002259	13C7-PFUnDA_IS	----	4.3504	ng/mL
4_2-FTS-13C_IS	Auto	4.213	500096	500096	----	----	5.0000	ng/mL
6_2-FTS_1	ND(W/B)	----	----	527434	6_2-FTS-13C_IS	----	----	ng/mL
6_2-FTS-13C	Auto	4.581	527434	5002259	13C7-PFUnDA_IS	----	4.8568	ng/mL
6_2-FTS-13C_IS	Auto	4.581	527434	527434	----	----	5.0000	ng/mL
8_2-FTS_1	ND(W/B)	----	----	294855	8_2-FTS-13C_IS	----	----	ng/mL
8_2-FTS-13C	Auto	4.951	294855	5002259	13C7-PFUnDA_IS	----	5.1012	ng/mL
8_2-FTS-13C_IS	Auto	4.951	294855	294855	----	----	5.0000	ng/mL
10_2-FtS_1	MI R1	5.348	41	294855	8_2-FTS-13C_IS	----	0.0009	ng/mL
HPFO_DA	ND(W/B)	----	----	613250	HFPO_DA-13C_IS	----	----	ng/mL
HFPO_DA-13C	Auto	4.307	613250	5002259	13C7-PFUnDA_IS	----	4.7447	ng/mL
HFPO_DA-13C_IS	Auto	4.307	613250	613250	----	----	5.0000	ng/mL



210819_028 (continued)

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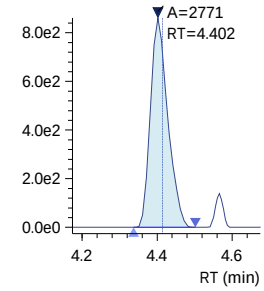
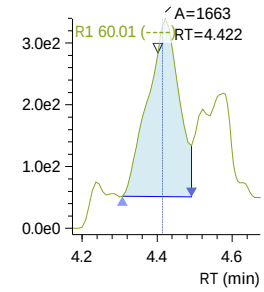
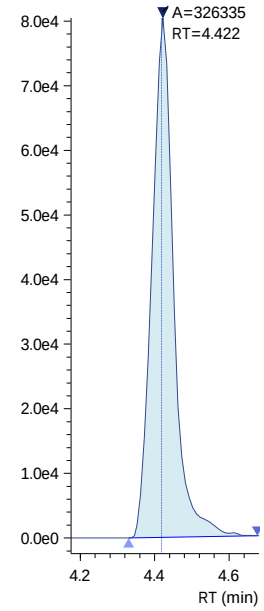
Conc 0.0040
R#1 60.01 (71.26)
Q 399.00>80.00 (-) 8.61e2


R1 399.00>99.00 (-) 3.39e2


PFHxS-18O
Conc 4.6345
Q 402.70>84.05 (-) 8.05e4


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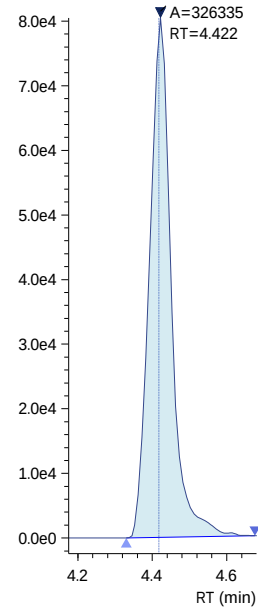
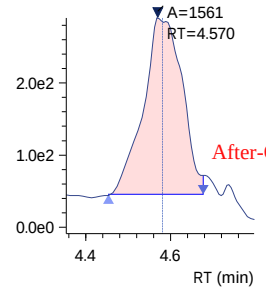
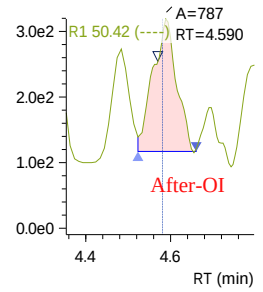
Conc 5.0000
ISTD 402.70>84.05 (-) 8.05e4


PFHpS_1
Conc 0.0114
R#1 50.42 (53.84)
Q 449.00>80.15 (-) 2.90e2


R1 449.00>99.20 (-) 3.19e2


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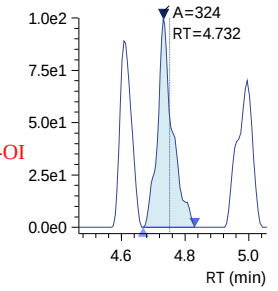
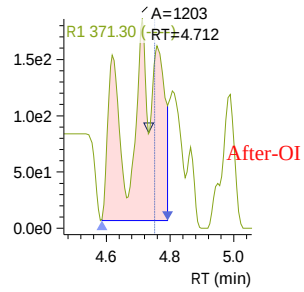
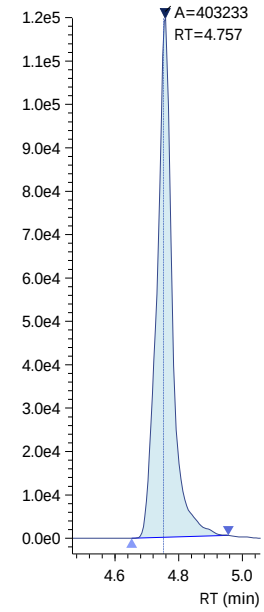
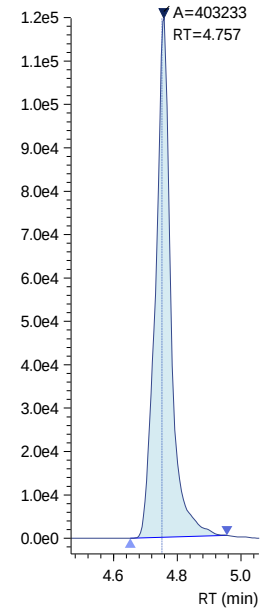
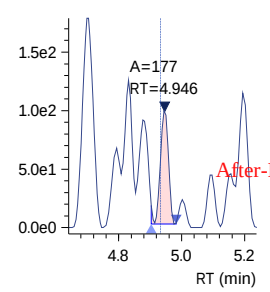
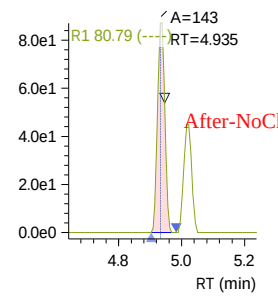
Conc 0.0043
R#1 371.30 (86.72)
Q 499.00>80.00 (-) 1.00e2


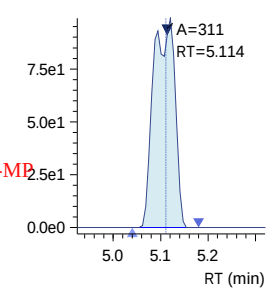
R1 499.00>99.00 (-) 1.86e2


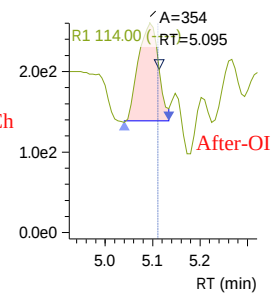
PFOS-13C
Conc 4.6077
Q 502.80>80.05 (-) 1.20e5


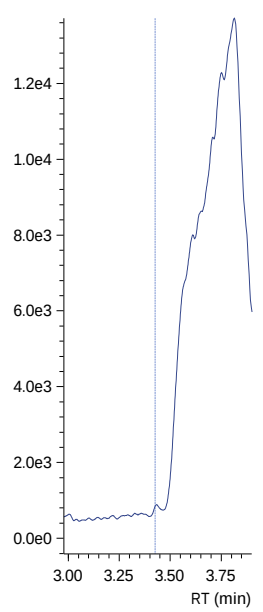
PFOS-13C_IS
Conc 5.0000
ISTD 502.80>80.05 (-) 1.20e5


PFNS
Conc 0.0026
R#1 80.79 (129.18)
Q 549.00>99.00 (-) 1.79e2


R1 549.00>79.95 (-) 8.70e1


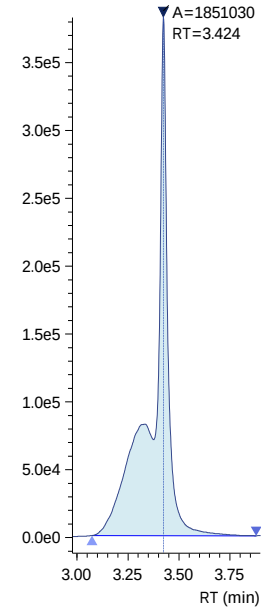
PFDS_1
Conc 0.0032
R#1 114.00 (90.77)
Q 599.00>79.90 (-) 9.90e1


R1 599.00>99.10 (-) 2.60e2


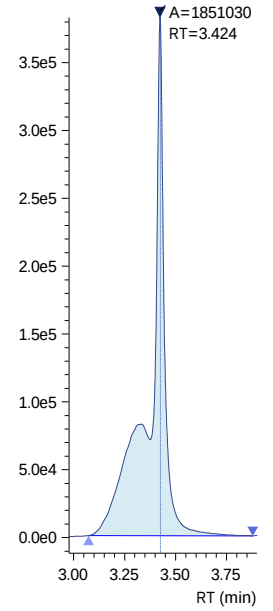
PFBA
Conc ----
Q 213.00>169.10 (-) 1.37e4


210819_028 (continued)

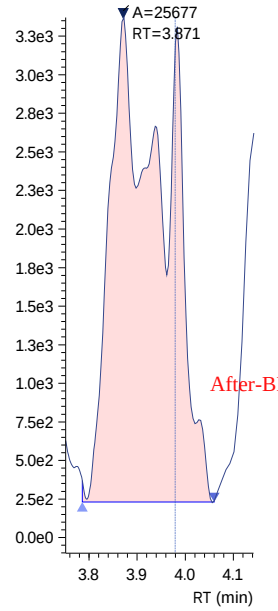
PFBA-13C
Conc 4.5306
Q 216.90>172.15 (-) 3.83e5



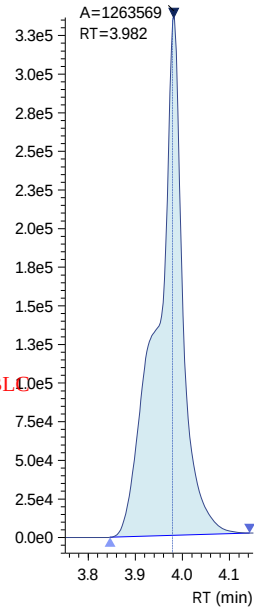
PFBA-13C_IS
Conc 5.0000
ISTD 216.90>172.15 (-) 3.83e5



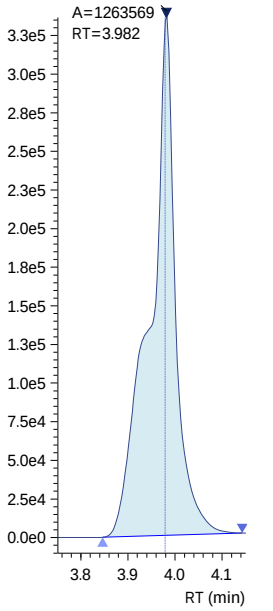
PFPeA
Conc 0.0320
Q 263.05>219.10 (-) 3.37e3



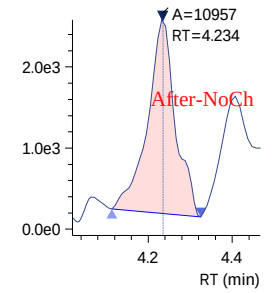
PFPeA-13C
Conc 4.6930
Q 267.90>223.00 (-) 3.37e5



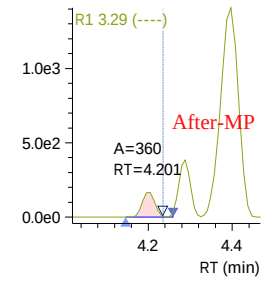
PFPeA-13C_IS
Conc 5.0000
ISTD 267.90>223.00 (-) 3.37e5



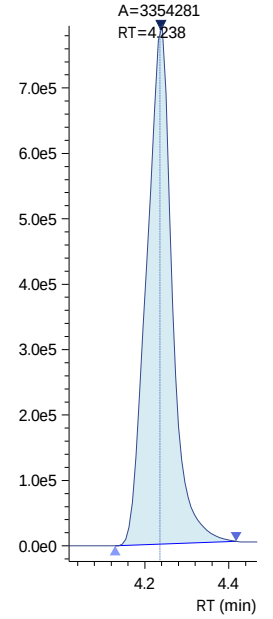
PFHxA
Conc 0.0121
R#1 3.29 (4.17)
Q 313.00>269.00 (-) 2.58e3



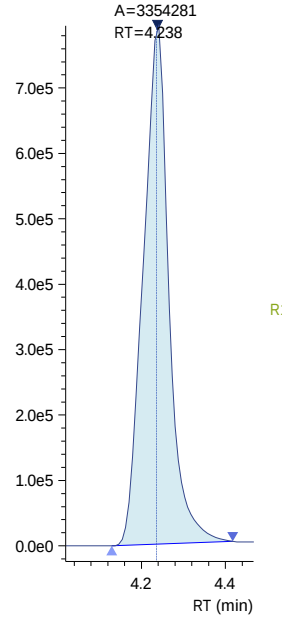
R1 313.00>119.10 (-) 1.41e3



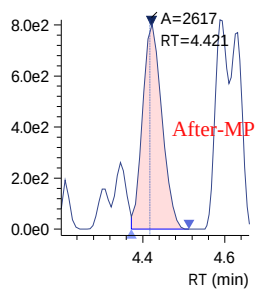
PFHxA-13C
Conc 4.5247
Q 314.90>270.10 (-) 7.95e5



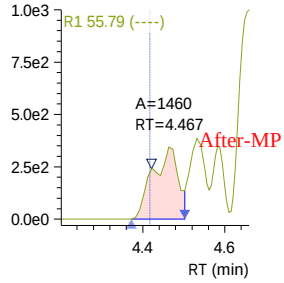
PFHxA-13C_IS
Conc 5.0000
ISTD 314.90>270.10 (-) 7.95e5



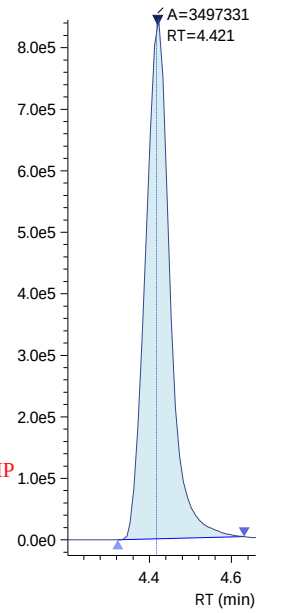
PFHpA
Conc 0.0034
R#1 55.79 (26.04)
Q 362.90>319.00 (-) 8.20e2



R1 362.90>169.00 (-) 1.00e3

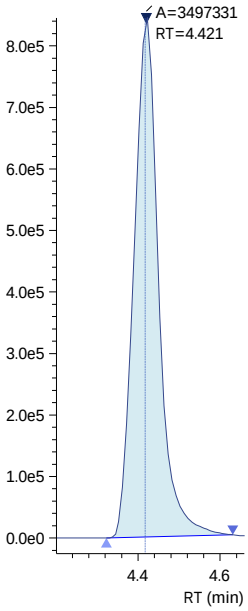


PFHpA-13C
Conc 4.6466
Q 366.90>322.10 (-) 8.45e5

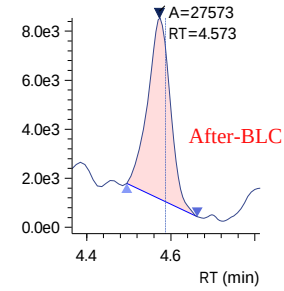


210819_028 (continued)

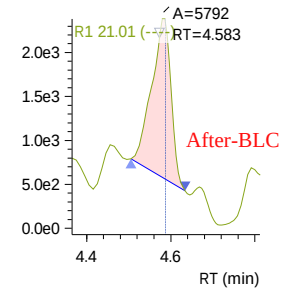
PFHpA-13C_IS
Conc 5.0000
ISTD 366.90>322.10 (-) 8.45e5



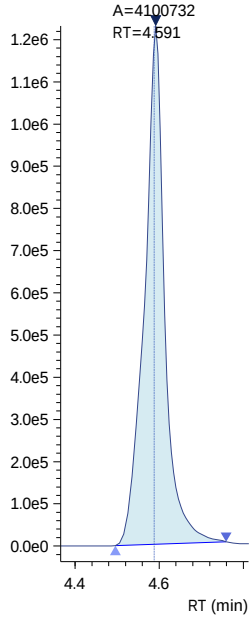
PFOA
Conc 0.0219
R#1 21.01 (30.35)
Q 413.00>369.00 (-) 8.54e3



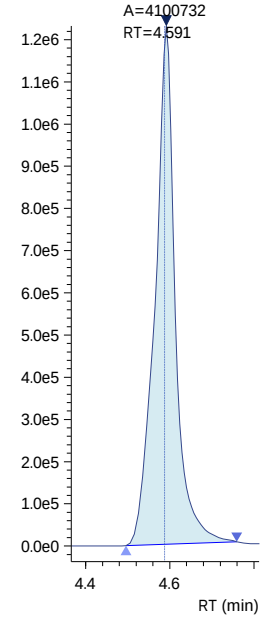
R1 413.00>169.10 (-) 2.38e3



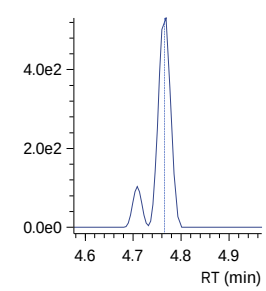
PFOA-13C
Conc 4.8940
Q 416.80>372.05 (-) 1.23e6



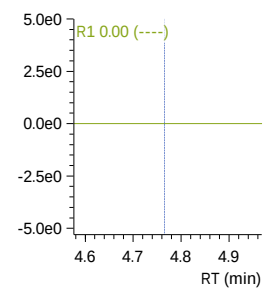
PFOA-13C_IS
Conc 5.0000
ISTD 416.80>372.05 (-) 1.23e6



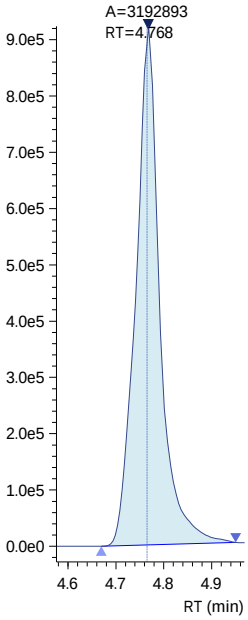
PFNA
Conc ----
R#1 0.00 (22.35)
Q 463.00>418.90 (-) 5.31e2



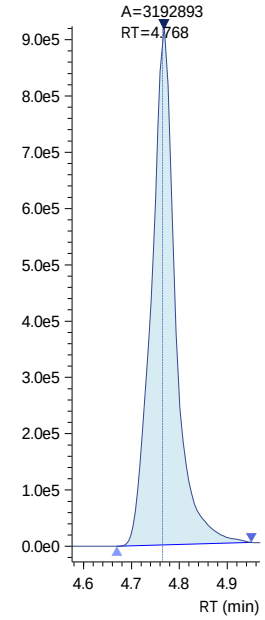
R1 463.00>219.00 (-) 0.00e0



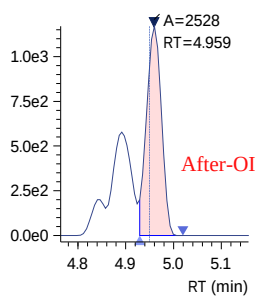
PFNA-13C
Conc 4.9954
Q 467.80>423.00 (-) 9.24e5



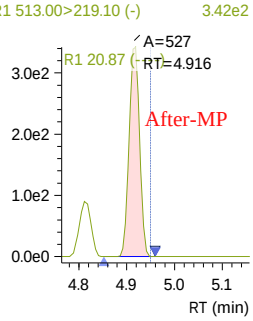
PFNA-13C_IS
Conc 5.0000
ISTD 467.80>423.00 (-) 9.24e5



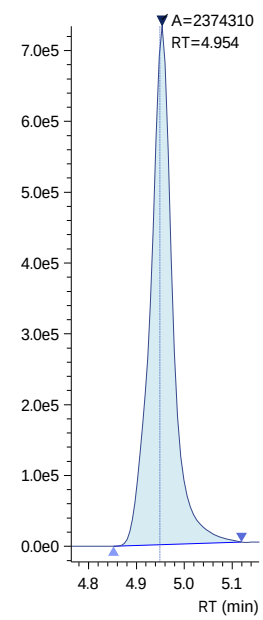
PFDA
Conc 0.0036
R#1 20.87 (18.73)
Q 513.00>468.80 (-) 1.17e3



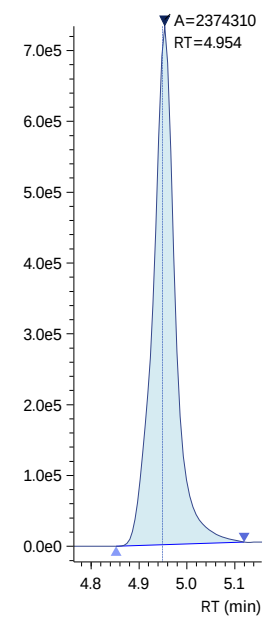
R1 513.00>219.10 (-) 3.42e2



PFDA-13C
Conc 5.0258
Q 514.80>469.95 (-) 7.34e5



PFDA-13C_IS
Conc 5.0000
ISTD 514.80>469.95 (-) 7.34e5

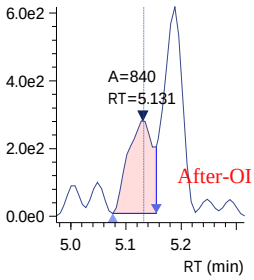


210819_028 (continued)

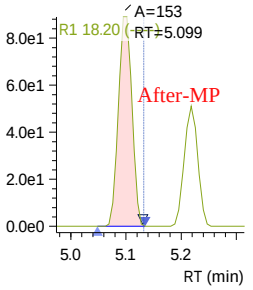
PFUnA

Conc 0.0011
R#1 18.20 (11.60)

Q 563.00>518.90 (-) 6.18e2



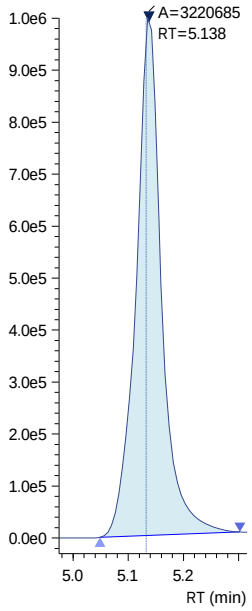
R1 563.00>219.00 (-) 8.90e1



PFUnA-13C

Conc 5.1167

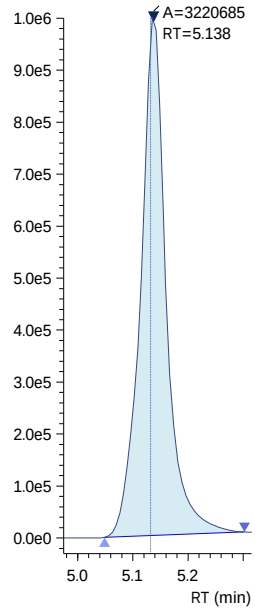
Q 564.80>519.95 (-) 1.00e6



PFUnA-13C_IS

Conc 5.0000

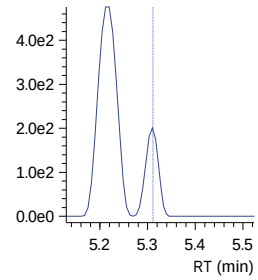
ISTD 564.80>519.95 (-) 1.00e6



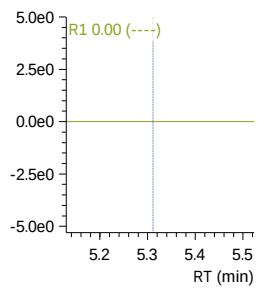
PFDoA

Conc ----
R#1 0.00 (15.11)

Q 613.05>569.00 (-) 4.76e2



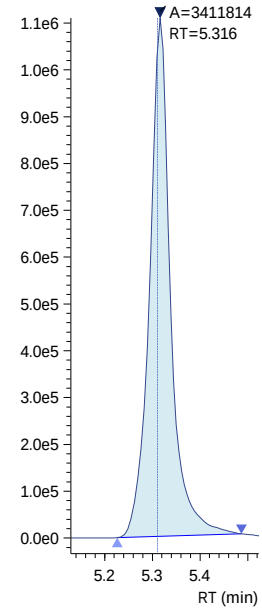
R1 613.05>169.00 (-) 0.00e0



PFDoA-13C

Conc 4.9483

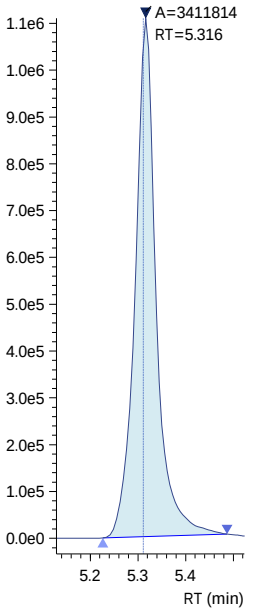
Q 614.80>569.95 (-) 1.11e6



PFDoA-13C_IS

Conc 5.0000

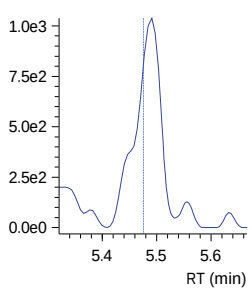
ISTD 614.80>569.95 (-) 1.11e6



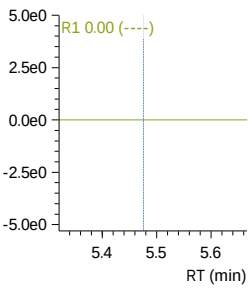
PFTrDA

Conc ----
R#1 0.00 (14.19)

Q 663.00>618.90 (-) 1.04e3



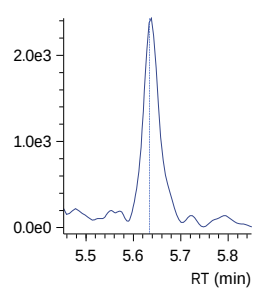
R1 662.90>169.00 (-) 0.00e0



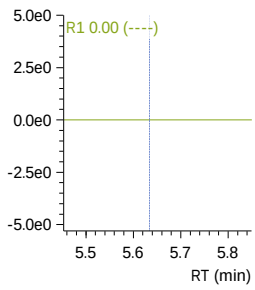
PFTeDA

Conc ----
R#1 0.00 (14.98)

Q 713.00>669.00 (-) 2.43e3



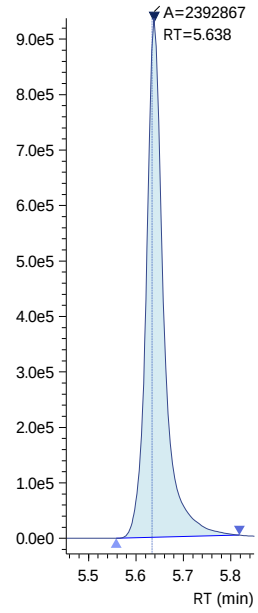
R1 713.00>169.10 (-) 0.00e0



PFTeDA-13C

Conc 5.1283

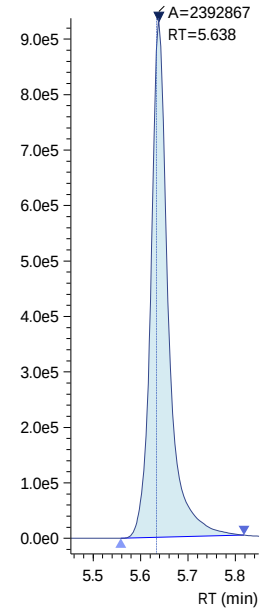
Q 714.70>669.90 (-) 9.38e5



PFTeDA-13C_IS

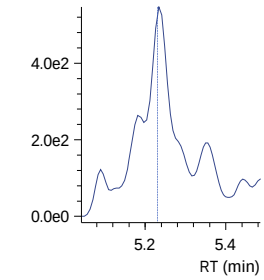
Conc 5.0000

ISTD 714.70>669.90 (-) 9.38e5

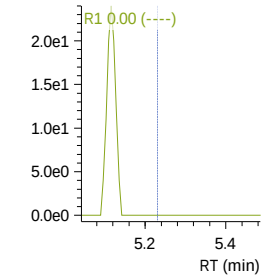


210819_028 (continued)

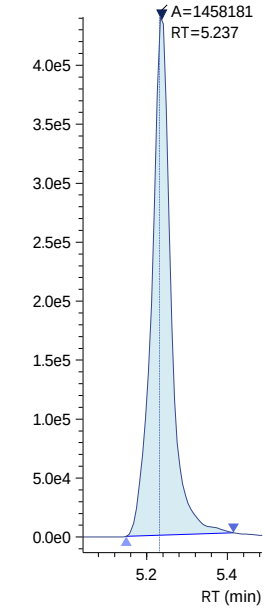
FOSA
Conc ----
R#1 0.00 (4.89)
Q 498.20>78.00 (-) 5.47e2



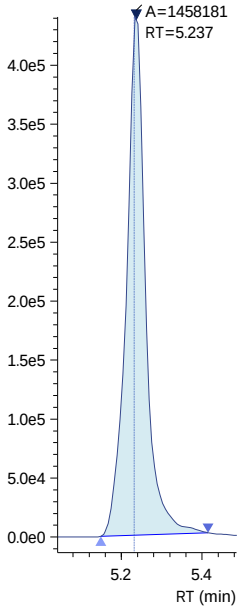
R1 498.20>64.10 (-) 2.40e1



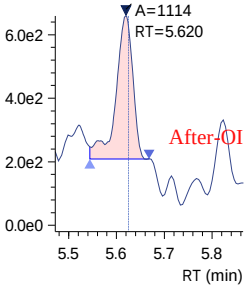
FOSA-13C
Conc 4.9073
Q 506.00>78.05 (-) 4.41e5



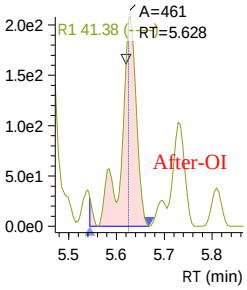
FOSA-13C_IS
Conc 5.0000
ISTD 506.00>78.05 (-) 4.41e5



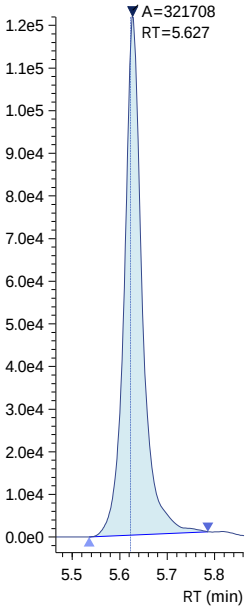
N-MeFOSA
Conc 0.0093
R#1 41.38 (62.72)
Q 512.00>169.10 (-) 6.59e2



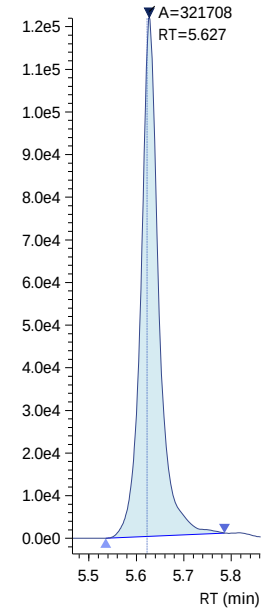
R1 512.00>219.00 (-) 2.08e2



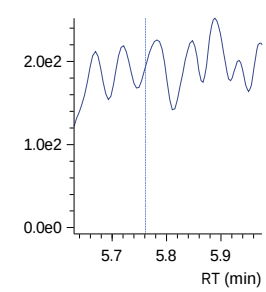
N-MeFOSA-d3
Conc 4.6562
Q 514.90>168.90 (-) 1.22e5



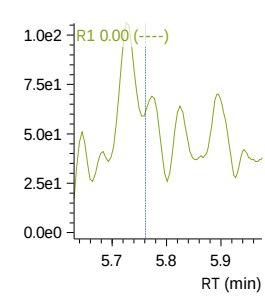
N-MeFOSA-d3_IS
Conc 5.0000
ISTD 514.90>168.90 (-) 1.22e5



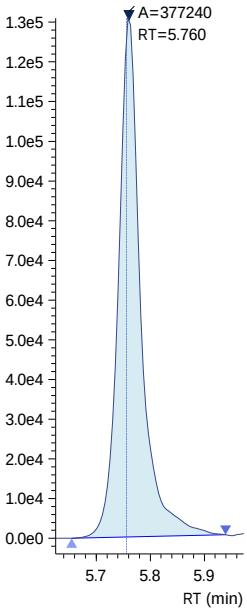
N-EtFOSA
Conc ----
R#1 0.00 (63.35)
Q 526.90>169.10 (-) 2.52e2



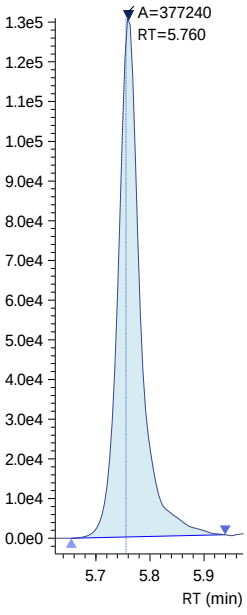
R1 526.90>219.00 (-) 1.06e2



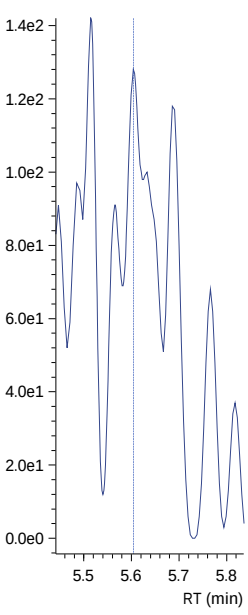
N-EtFOSA-d9
Conc 4.8054
Q 530.90>169.15 (-) 1.31e5



N-EtFOSA-d9_IS
Conc 5.0000
ISTD 530.90>169.15 (-) 1.31e5

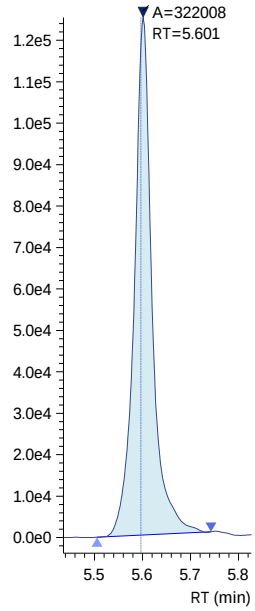


N-MeFOSE
Conc ----
Q 616.00>59.00 (-) 1.42e2

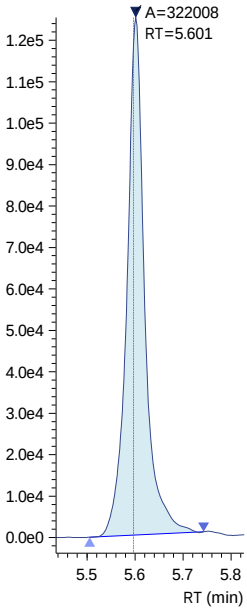


210819_028 (continued)

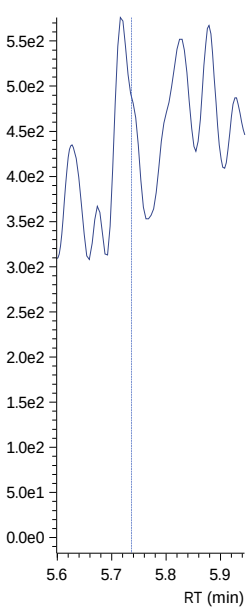
N-MeFOSE-d7
Conc 4.6605
Q 622.70>59.10 (-) 1.25e5



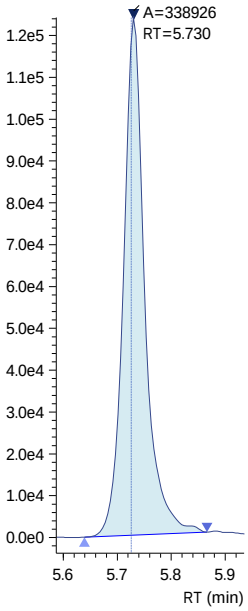
N-MeFOSE-d7_IS
Conc 5.0000
ISTD 622.70>59.10 (-) 1.25e5



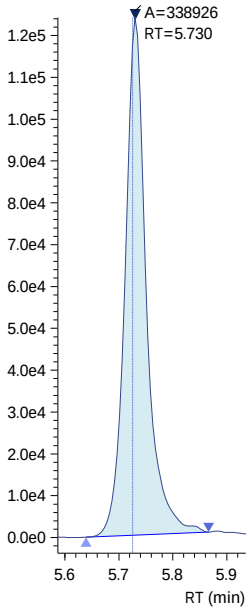
N-EtFOSE
Conc ----
Q 630.00>58.90 (-) 5.76e2



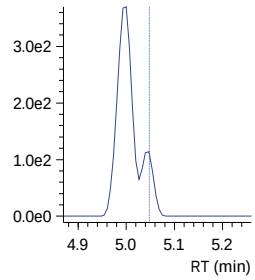
N-EtFOSE-d9
Conc 4.7381
Q 638.70>59.10 (-) 1.24e5



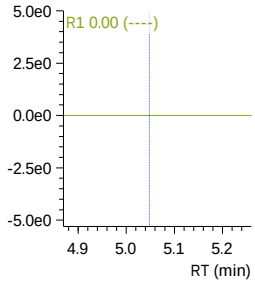
N-EtFOSE-d9_IS
Conc 5.0000
ISTD 638.70>59.10 (-) 1.24e5



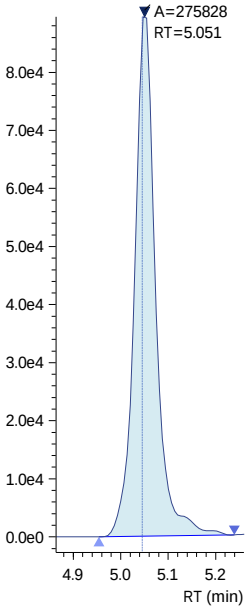
N-MeFOSAA
Conc ----
R#1 0.00 (35.26)
Q 570.20>419.00 (-) 3.70e2



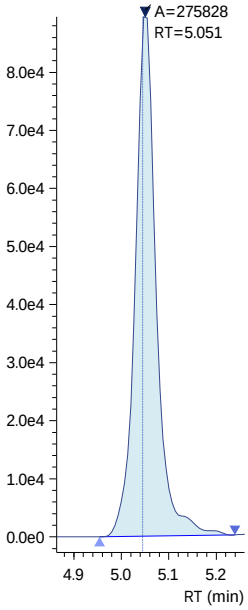
R1 570.20>512.00 (-) 0.00e0



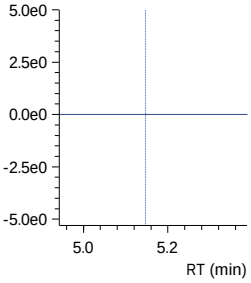
N-MeFOSAA-d3
Conc 4.8948
Q 572.80>419.05 (-) 8.96e4



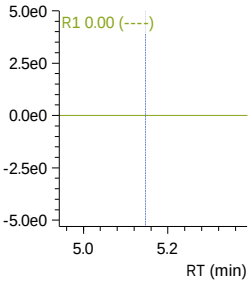
N-MeFOSAA-d3_IS
Conc 5.0000
ISTD 572.80>419.05 (-) 8.96e4



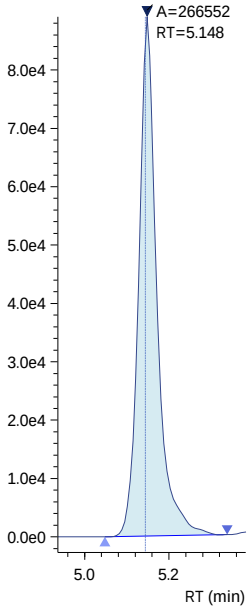
N-EtFOSAA
Conc ----
R#1 0.00 (77.25)
Q 584.20>418.95 (-) 0.00e0



R1 584.20>526.10 (-) 0.00e0

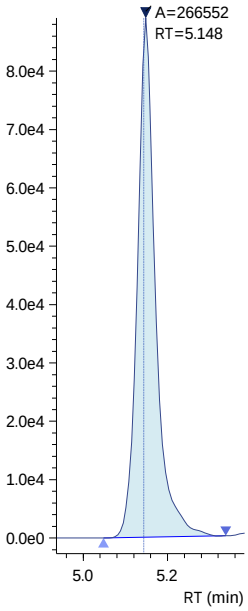


N-EtFOSAA-d5
Conc 5.0811
Q 588.80>419.00 (-) 8.91e4

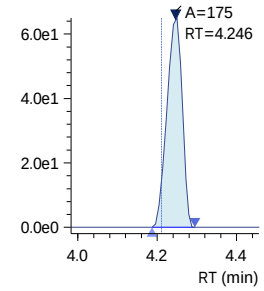


210819_028 (continued)

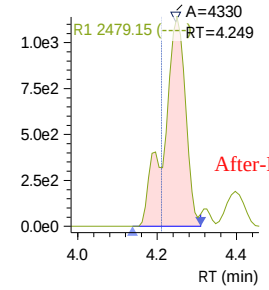
N-EtFOSAA-d5_IS
Conc 5.0000
ISTD 588.80>419.00 (-) 8.91e4



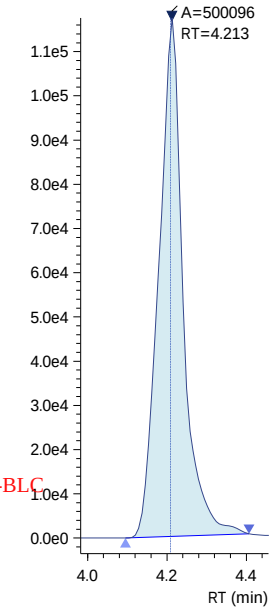
4_2-FTS_1
Conc 0.0017
R#1 2479.15 (39.85)
Q 327.00>307.05 (-) 6.50e1



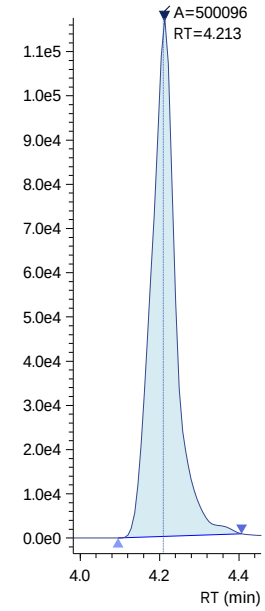
R1 327.00>81.10 (-) 1.14e3



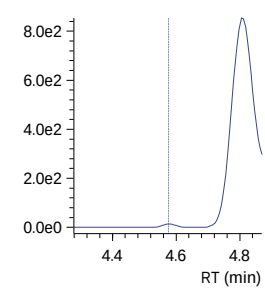
4_2-FTS-13C
Conc 4.3504
Q 328.80>309.05 (-) 1.18e5



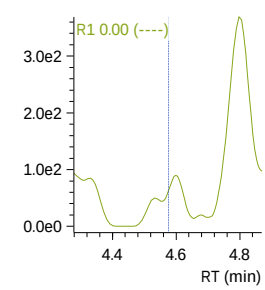
4_2-FTS-13C_IS
Conc 5.0000
ISTD 328.80>309.05 (-) 1.18e5



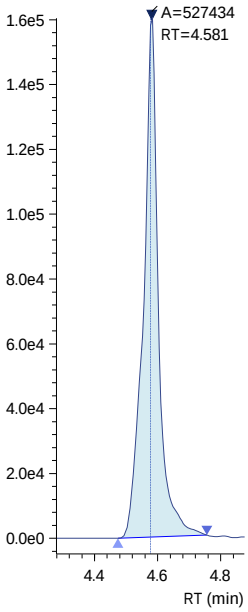
6_2-FTS_1
Conc ----
R#1 0.00 (29.95)
Q 427.00>407.00 (-) 8.54e2



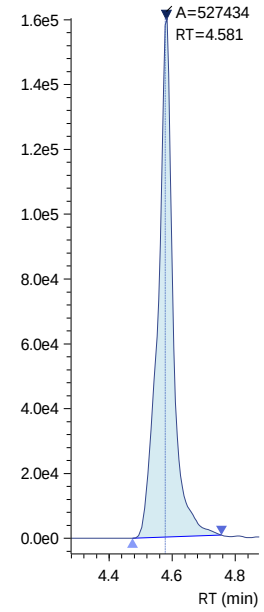
R1 427.00>80.90 (-) 3.69e2



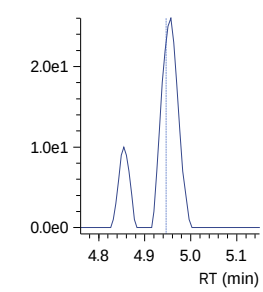
6_2-FTS-13C
Conc 4.8568
Q 428.90>409.00 (-) 1.60e5



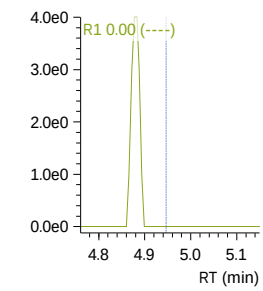
6_2-FTS-13C_IS
Conc 5.0000
ISTD 428.90>409.00 (-) 1.60e5



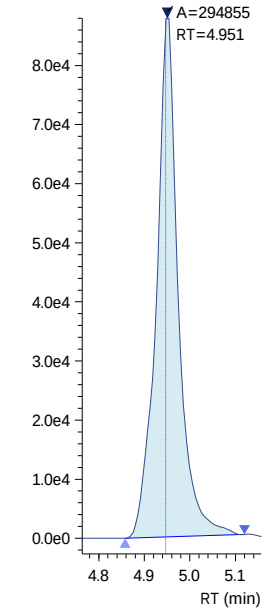
8_2-FTS_1
Conc ----
R#1 0.00 (9.42)
Q 527.10>506.90 (-) 2.60e1



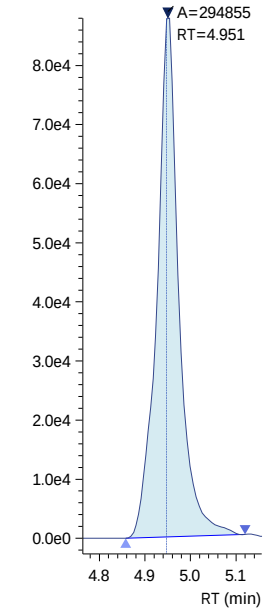
R1 527.20>487.00 (-) 4.00e0



8_2-FTS-13C
Conc 5.1012
Q 528.80>509.00 (-) 8.80e4

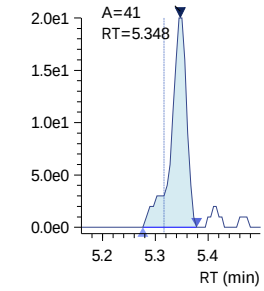


8_2-FTS-13C_IS
Conc 5.0000
ISTD 528.80>509.00 (-) 8.80e4

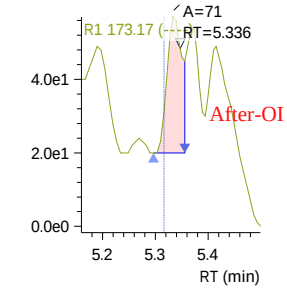


210819_028 (continued)

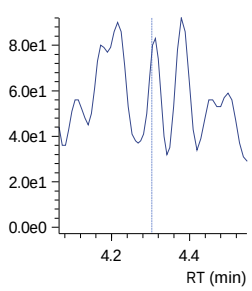
10_2-FtS_1
Conc 0.0009
R#1 173.17 (49.86)
Q 627.00>606.95 (-) 2.00e1



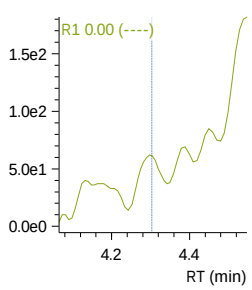
R1 627.00>81.25 (-) 5.70e1



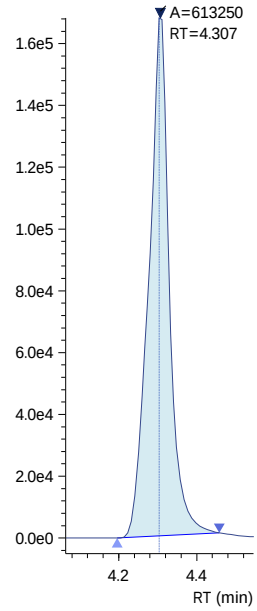
HPFO_DA
Conc ----
R#1 0.00 (101.52)
Q 329.00>169.00 (-) 9.20e1



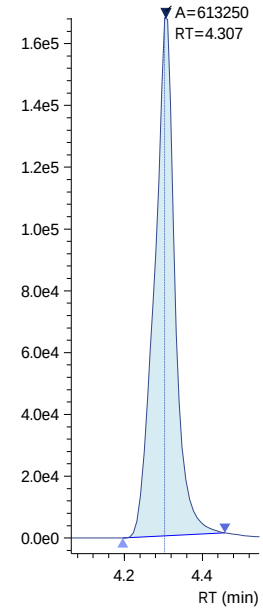
R1 329.00>285.10 (-) 1.82e2



HFPO_DA-13C
Conc 4.7447
Q 332.00>286.80 (-) 1.68e5



HFPO_DA-13C_IS
Conc 5.0000
ISTD 332.00>286.80 (-) 1.68e5

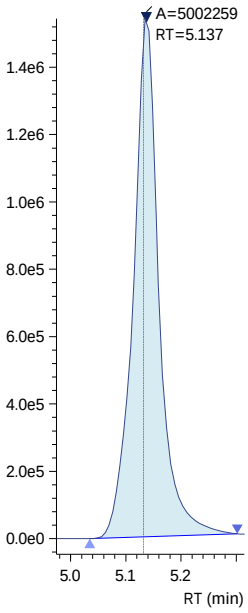


Insight Report
Before Manual Integration
Printed 8/20/2021 09:47:37

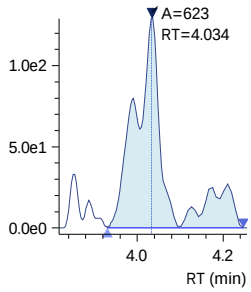
210819_028

Sample ID: CCB
Date Acquired: 8/19/2021 8:02:57 PM
Acquired by: System Administrator
Data File: 210819_028
Vial: 9 | Inj. Volume: 15.0000uL | Tray: 1

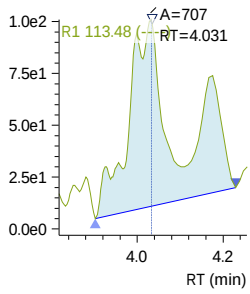
13C7-PFUnDA_IS
Conc 5.0000
ISTD 570.00>525.00 (-) 1.54e6



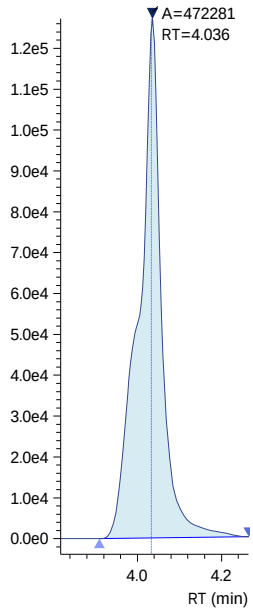
PFBS_1
Conc 0.0036
R#1 113.48 (48.11)
Q 299.00>80.00 (-) 1.29e2



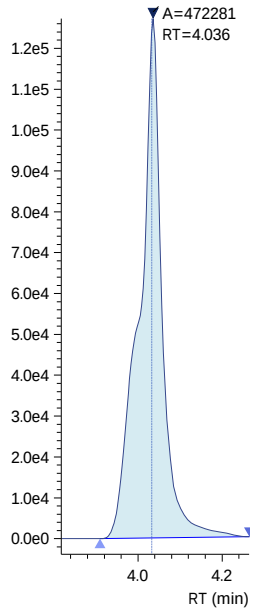
R1 298.80>99.00 (-) 1.01e2



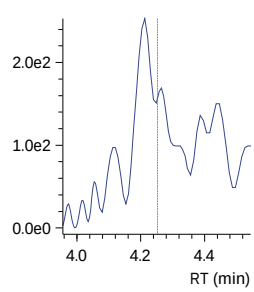
PFBS-13C
Conc 4.5762
Q 301.80>80.00 (-) 1.27e5



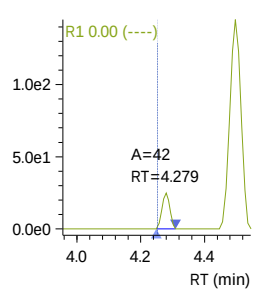
PFBS-13C_IS
Conc 5.0000
ISTD 301.80>80.00 (-) 1.27e5



PFPeS
Conc ----
R#1 0.00 (149.27)
Q 349.00>99.00 (-) 2.53e2



R1 349.00>79.95 (-) 1.45e2



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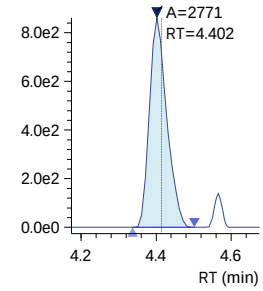
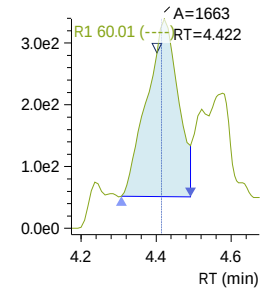
210819_028 (continued)

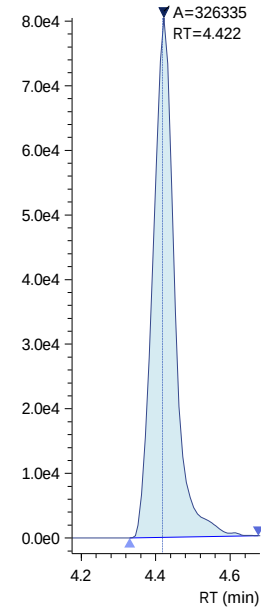
PFHxS_1
Conc 0.0230
R#1 60.01 (83.10)
Q 399.00>80.00 (-) 8.61e2



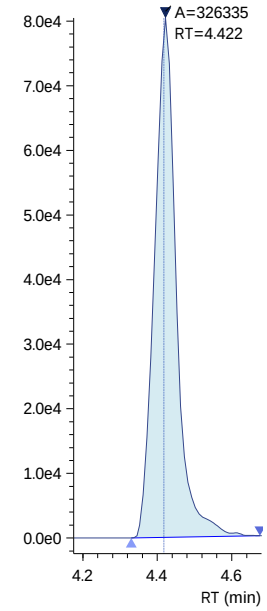
R1 399.00>99.00 (-) 3.39e2



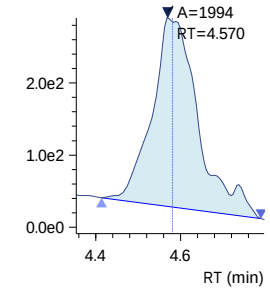
PFHxS-18O
Conc 4.6345
Q 402.70>84.05 (-) 8.05e4



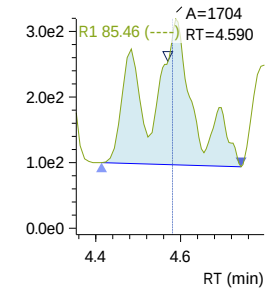
PFHxS-18O_IS
Conc 5.0000
ISTD 402.70>84.05 (-) 8.05e4



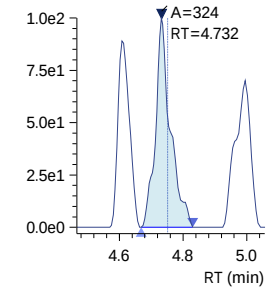
PFHpS_1
Conc 0.0144
R#1 85.46 (58.24)
Q 449.00>80.15 (-) 2.90e2



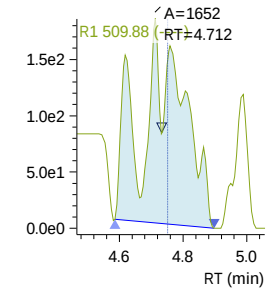
R1 449.00>99.20 (-) 3.19e2



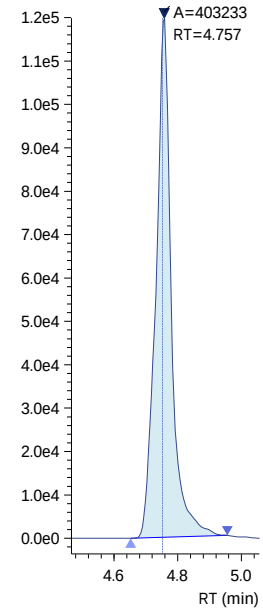
PFOS_1
Conc 0.0042
R#1 509.88 (87.63)
Q 499.00>80.00 (-) 1.00e2



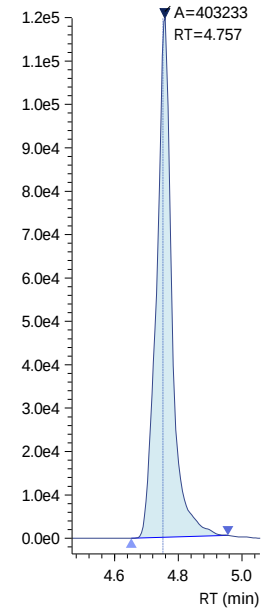
R1 499.00>99.00 (-) 1.86e2



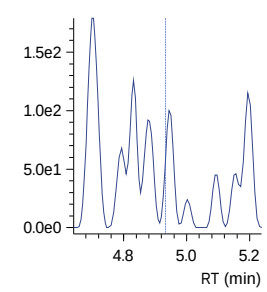
PFOS-13C
Conc 4.6077
Q 502.80>80.05 (-) 1.20e5



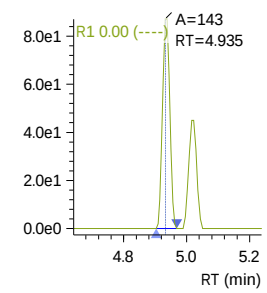
PFOS-13C_IS
Conc 5.0000
ISTD 502.80>80.05 (-) 1.20e5



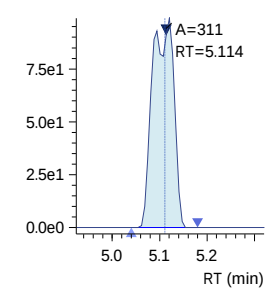
PFNS
Conc ----
R#1 0.00 (137.56)
Q 549.00>99.00 (-) 1.79e2



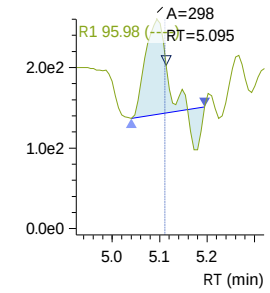
R1 549.00>79.95 (-) 8.70e1



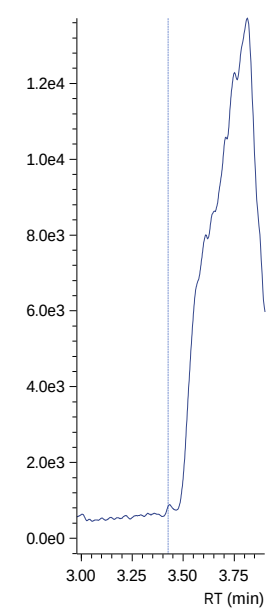
PFDS_1
Conc 0.0057
R#1 95.98 (101.78)
Q 599.00>79.90 (-) 9.90e1



R1 599.00>99.10 (-) 2.60e2

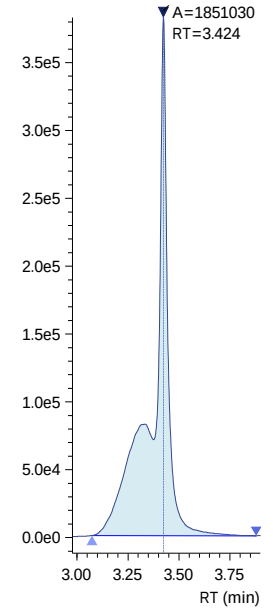


PFBA
Conc ----
Q 213.00>169.10 (-) 1.37e4

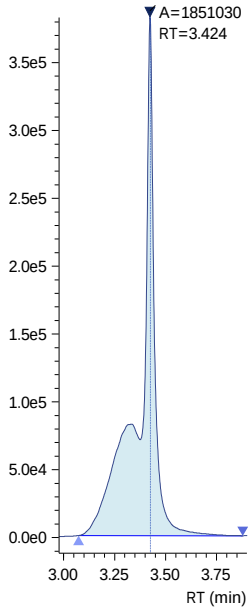


210819_028 (continued)

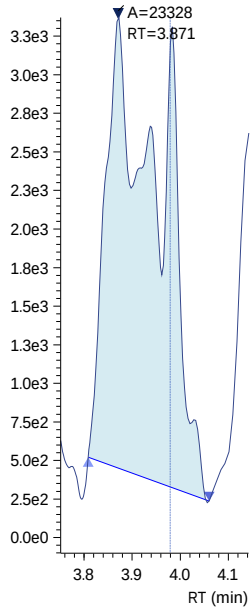
PFBA-13C
Conc 4.5306
Q 216.90>172.15 (-) 3.83e5



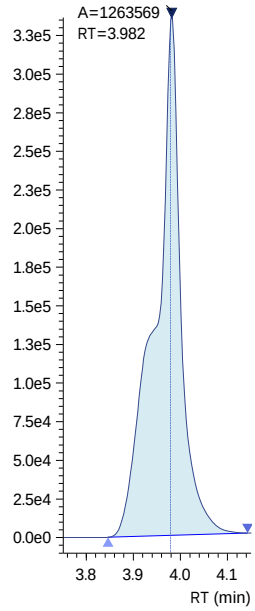
PFBA-13C_IS
Conc 5.0000
ISTD 216.90>172.15 (-) 3.83e5



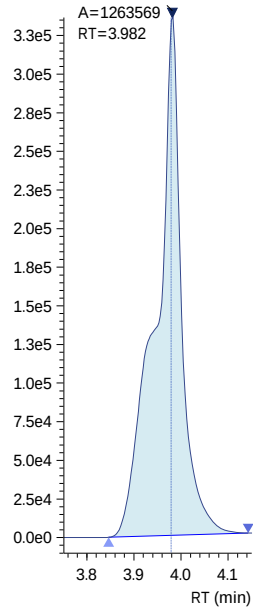
PFPeA
Conc 0.0130
Q 263.05>219.10 (-) 3.37e3



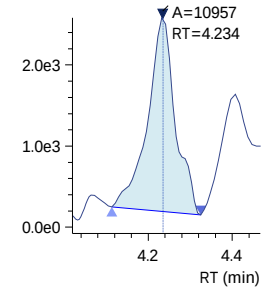
PFPeA-13C
Conc 4.6930
Q 267.90>223.00 (-) 3.37e5



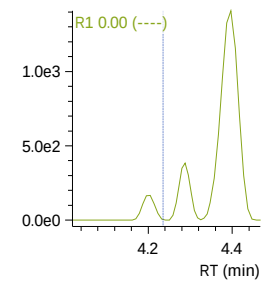
PFPeA-13C_IS
Conc 5.0000
ISTD 267.90>223.00 (-) 3.37e5



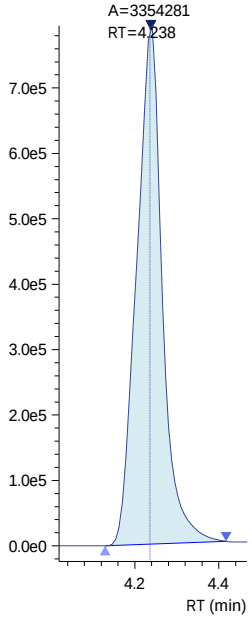
PFHxA
Conc 0.0120
R#1 0.00 (4.21)
Q 313.00>269.00 (-) 2.58e3



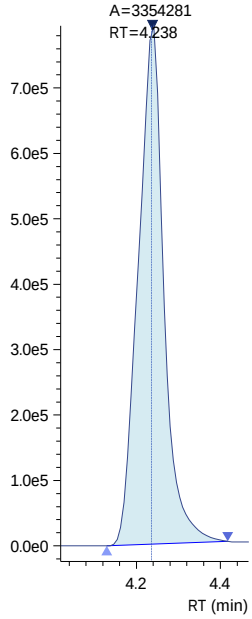
R1 313.00>119.10 (-) 1.41e3



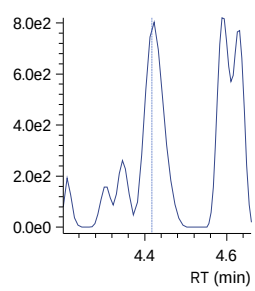
PFHxA-13C
Conc 4.5121
Q 314.90>270.10 (-) 7.95e5



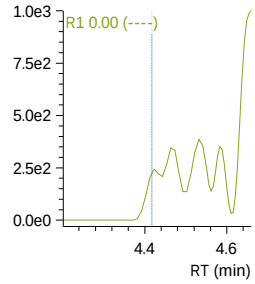
PFHxA-13C_IS
Conc 5.0000
ISTD 314.90>270.10 (-) 7.95e5



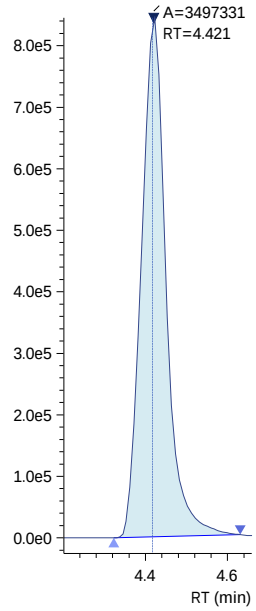
PFHpA
Conc ----
R#1 0.00 (26.69)
Q 362.90>319.00 (-) 8.20e2



R1 362.90>169.00 (-) 1.00e3



PFHpA-13C
Conc 4.6466
Q 366.90>322.10 (-) 8.45e5



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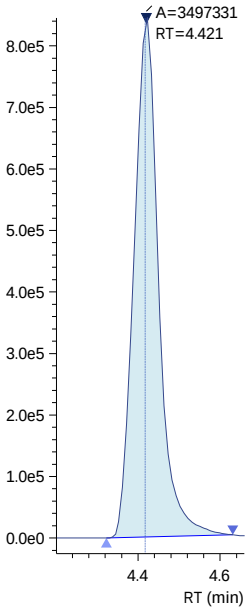
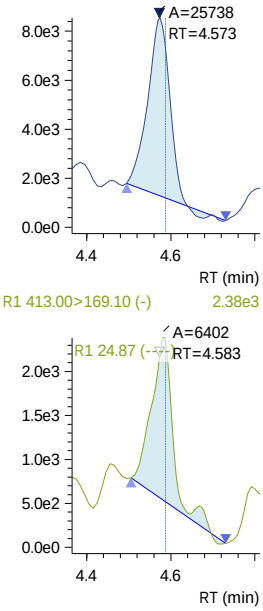
PFHpA-13C_IS
Conc 5.0000
ISTD 366.90>322.10 (-) 8.45e5

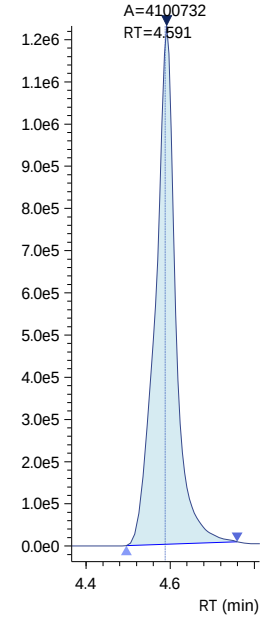


PFOA
Conc 0.0077
R#1 24.87 (31.31)
Q 413.00>369.00 (-) 8.54e3

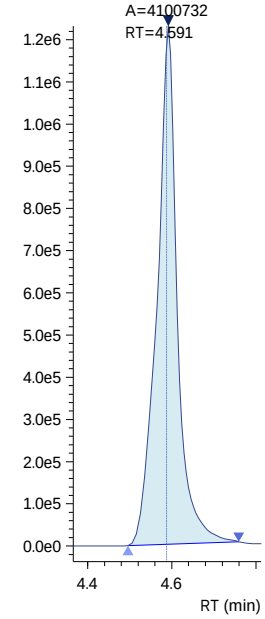


R1 413.00>169.10 (-) 2.38e3

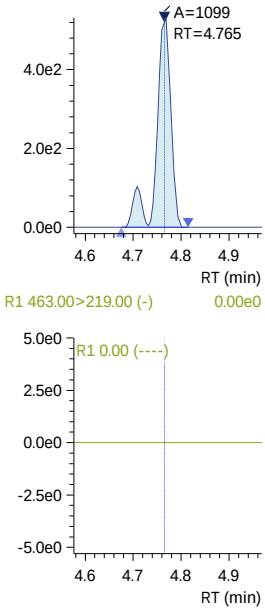
PFOA-13C
Conc 4.8940
Q 416.80>372.05 (-) 1.23e6



PFOA-13C_IS
Conc 5.0000
ISTD 416.80>372.05 (-) 1.23e6

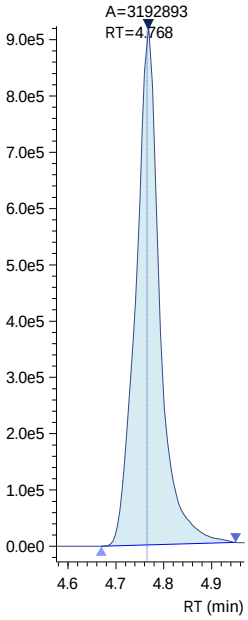


PFNA
Conc 0.0014
R#1 0.00 (20.54)
Q 463.00>418.90 (-) 5.31e2

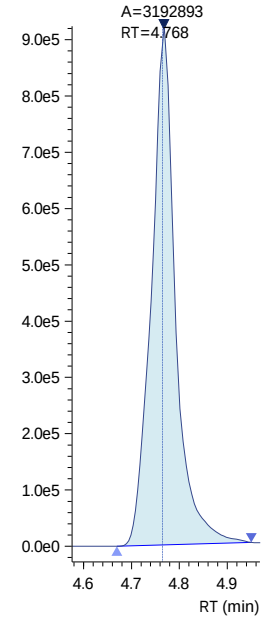


R1 463.00>219.00 (-) 0.00e0

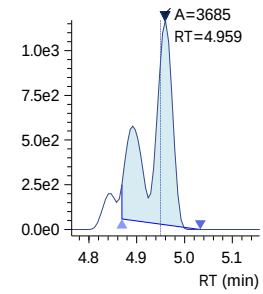
PFNA-13C
Conc 4.9954
Q 467.80>423.00 (-) 9.24e5



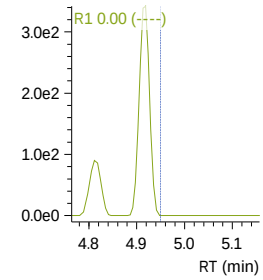
PFNA-13C_IS
Conc 5.0000
ISTD 467.80>423.00 (-) 9.24e5



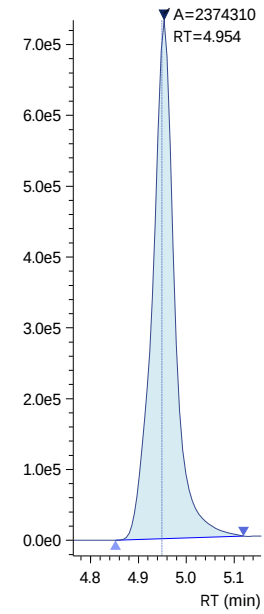
PFDA
Conc 0.0052
R#1 0.00 (20.01)
Q 513.00>468.80 (-) 1.17e3



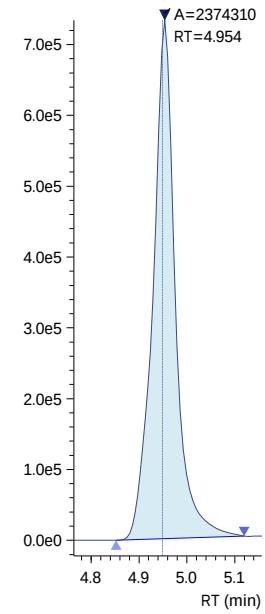
R1 513.00>219.10 (-) 3.42e2



PFDA-13C
Conc 5.0258
Q 514.80>469.95 (-) 7.34e5



PFDA-13C_IS
Conc 5.0000
ISTD 514.80>469.95 (-) 7.34e5



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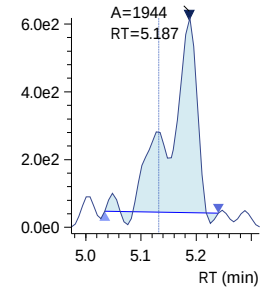
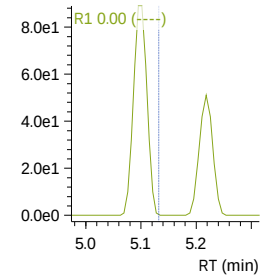
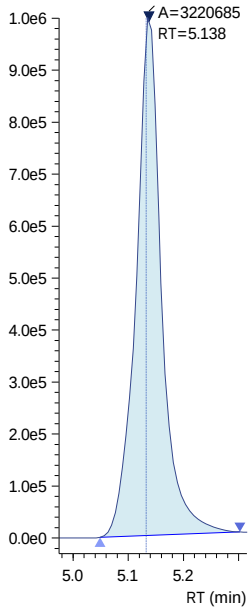
PFUnA
Conc 0.0025
R#1 0.00 (13.39)
Q 563.00>518.90 (-) 6.18e2



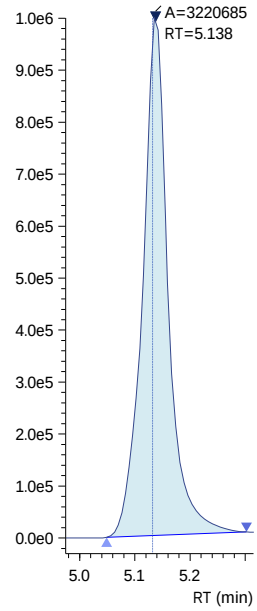
R1 563.00>219.00 (-) 8.90e1



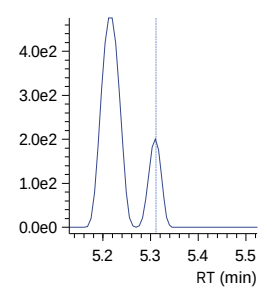
PFUnA-13C
Conc 5.1167
Q 564.80>519.95 (-) 1.00e6



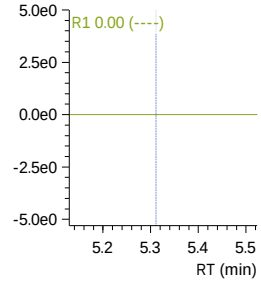
PFUnA-13C_IS
Conc 5.0000
ISTD 564.80>519.95 (-) 1.00e6



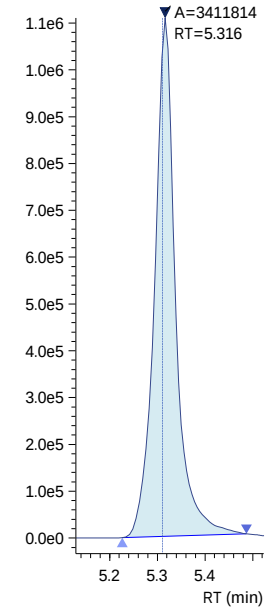
PFDoA
Conc ----
R#1 0.00 (16.84)
Q 613.05>569.00 (-) 4.76e2



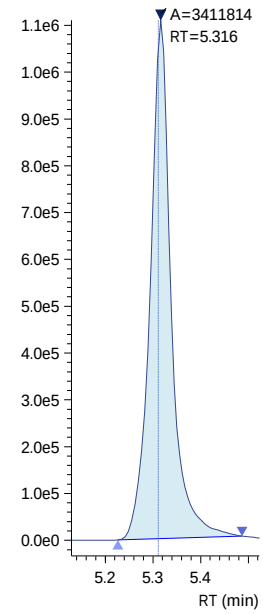
R1 613.05>169.00 (-) 0.00e0



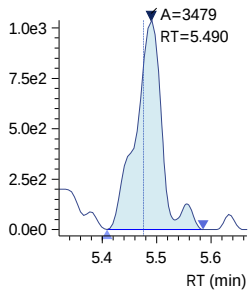
PFDoA-13C
Conc 4.9483
Q 614.80>569.95 (-) 1.11e6



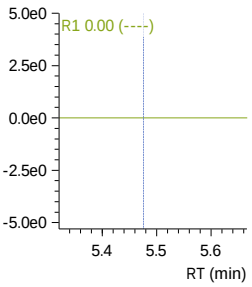
PFDoA-13C_IS
Conc 5.0000
ISTD 614.80>569.95 (-) 1.11e6



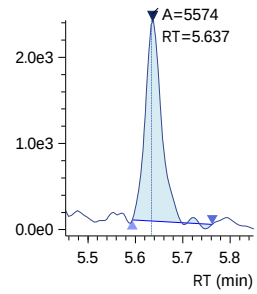
PFTrDA
Conc 0.0049
R#1 0.00 (16.76)
Q 663.00>618.90 (-) 1.04e3



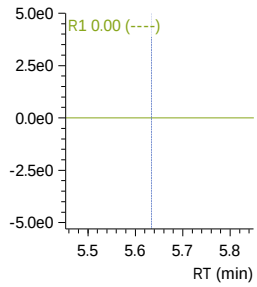
R1 662.90>169.00 (-) 0.00e0



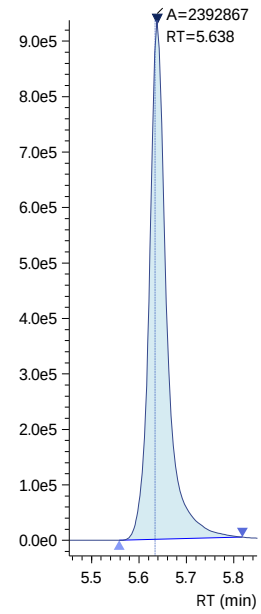
PFTeDA
Conc 0.0102
R#1 0.00 (16.56)
Q 713.00>669.00 (-) 2.43e3



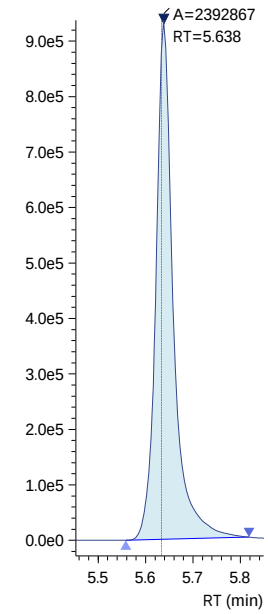
R1 713.00>169.10 (-) 0.00e0



PFTeDA-13C
Conc 5.1283
Q 714.70>669.90 (-) 9.38e5

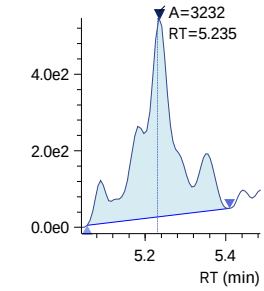


PFTeDA-13C_IS
Conc 5.0000
ISTD 714.70>669.90 (-) 9.38e5

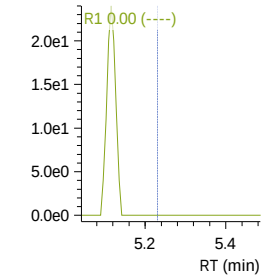


210819_028 (continued)

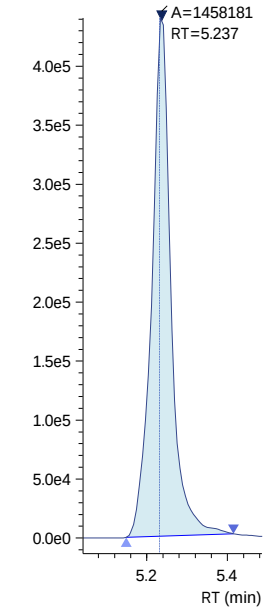
FOSA
Conc 0.0085
R#1 0.00 (4.59)
Q 498.20>78.00 (-) 5.47e2



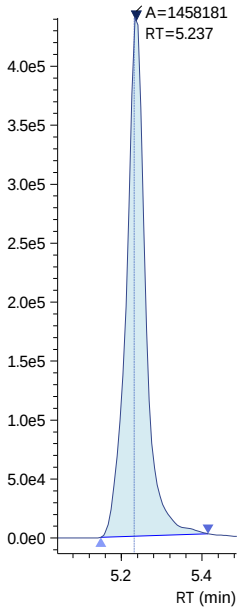
R1 498.20>64.10 (-) 2.40e1



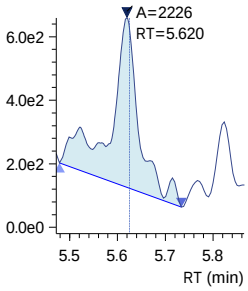
FOSA-13C
Conc 4.9073
Q 506.00>78.05 (-) 4.41e5



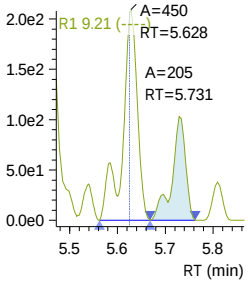
FOSA-13C_IS
Conc 5.0000
ISTD 506.00>78.05 (-) 4.41e5



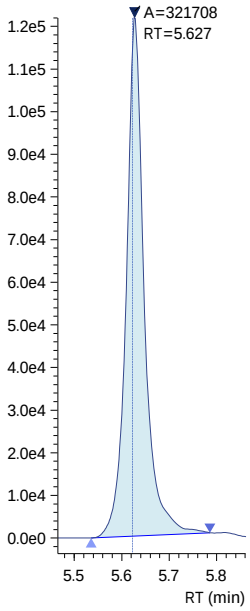
N-MeFOSA
Conc 0.0168
R#1 9.21 (68.73)
Q 512.00>169.10 (-) 6.59e2



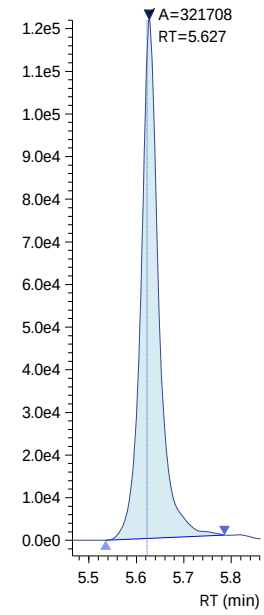
R1 512.00>219.00 (-) 2.08e2



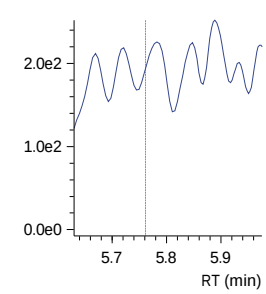
N-MeFOSA-d3
Conc 4.6562
Q 514.90>168.90 (-) 1.22e5



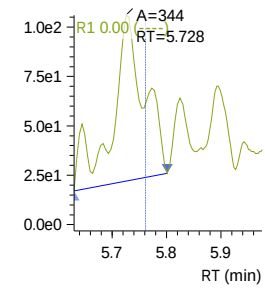
N-MeFOSA-d3_IS
Conc 5.0000
ISTD 514.90>168.90 (-) 1.22e5



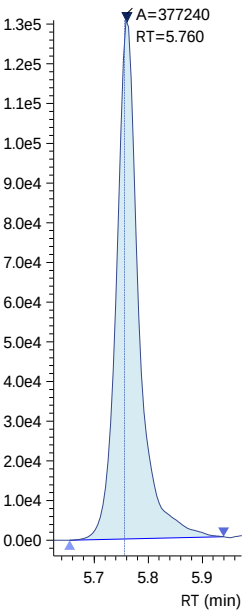
N-EtFOSA
Conc ----
R#1 0.00 (62.10)
Q 526.90>169.10 (-) 2.52e2



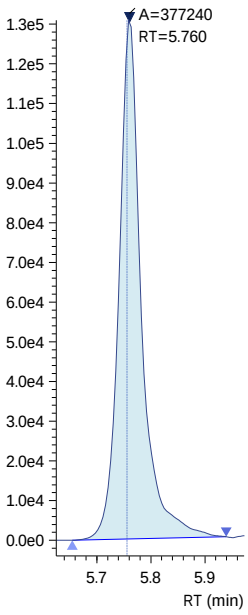
R1 526.90>219.00 (-) 1.06e2



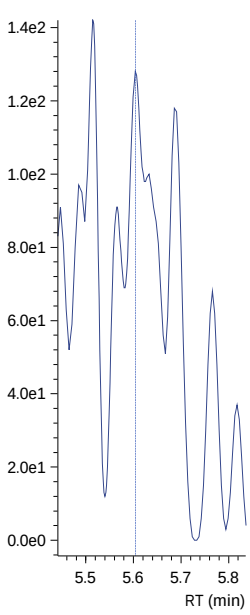
N-EtFOSA-d9
Conc 4.8054
Q 530.90>169.15 (-) 1.31e5



N-EtFOSA-d9_IS
Conc 5.0000
ISTD 530.90>169.15 (-) 1.31e5

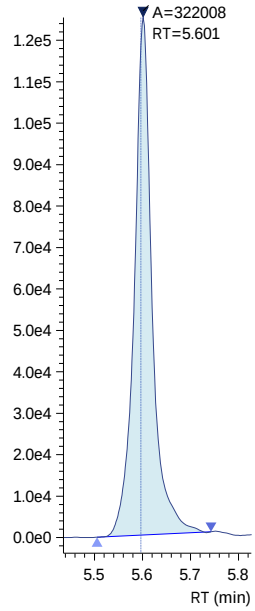


N-MeFOSE
Conc ----
Q 616.00>59.00 (-) 1.42e2

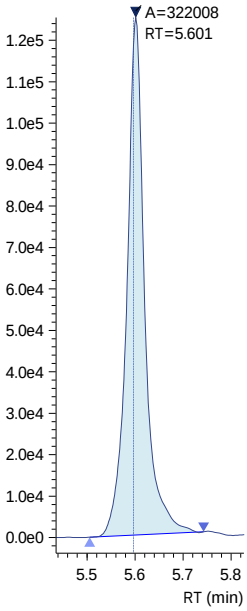


210819_028 (continued)

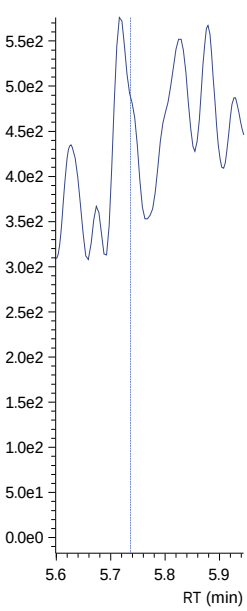
N-MeFOSE-d7
Conc 4.6605
Q 622.70>59.10 (-) 1.25e5



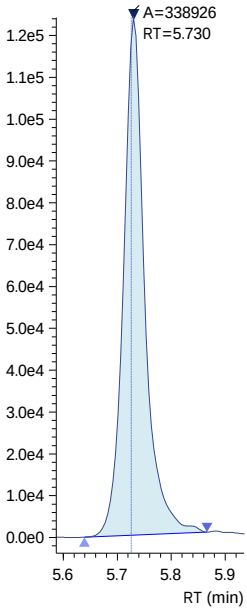
N-MeFOSE-d7_IS
Conc 5.0000
ISTD 622.70>59.10 (-) 1.25e5



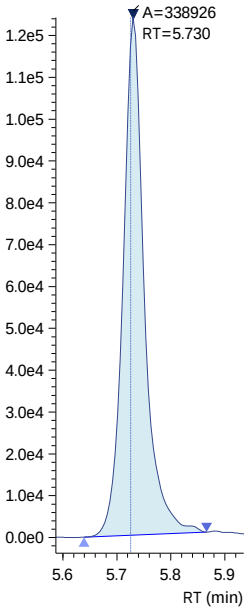
N-EtFOSE
Conc ----
Q 630.00>58.90 (-) 5.76e2



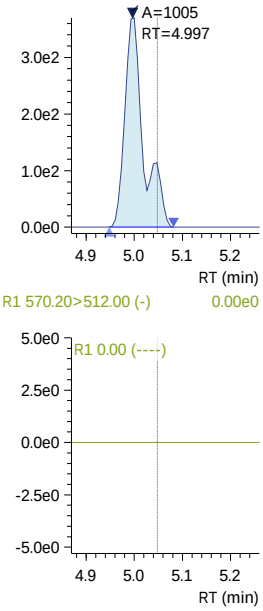
N-EtFOSE-d9
Conc 4.7381
Q 638.70>59.10 (-) 1.24e5



N-EtFOSE-d9_IS
Conc 5.0000
ISTD 638.70>59.10 (-) 1.24e5

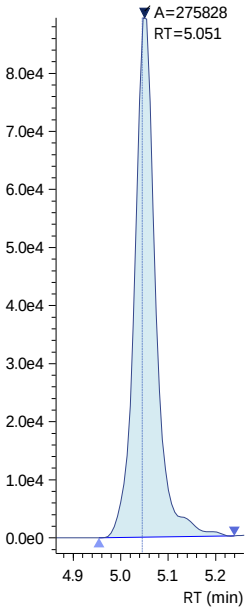


N-MeFOSAA
Conc 0.0336
R#1 0.00 (52.81)
Q 570.20>419.00 (-) 3.70e2

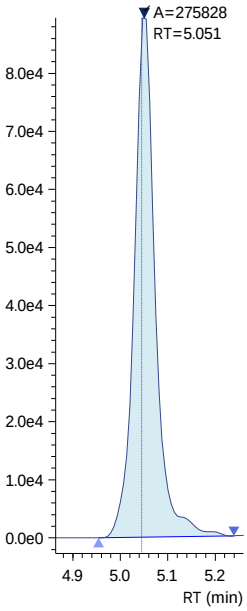


R1 570.20>512.00 (-) 0.00e0

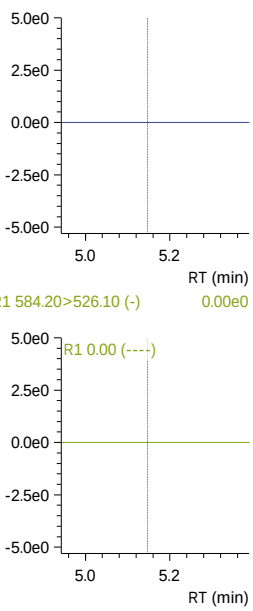
N-MeFOSAA-d3
Conc 4.8860
Q 572.80>419.05 (-) 8.96e4



N-MeFOSAA-d3_IS
Conc 5.0000
ISTD 572.80>419.05 (-) 8.96e4

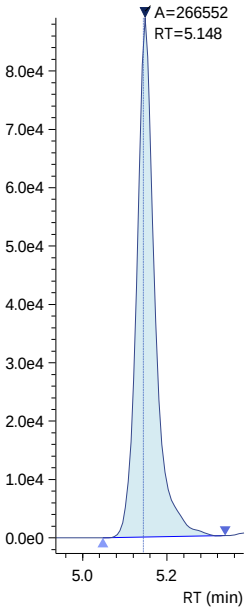


N-EtFOSAA
Conc ----
R#1 0.00 (86.68)
Q 584.20>418.95 (-) 0.00e0



R1 584.20>526.10 (-) 0.00e0

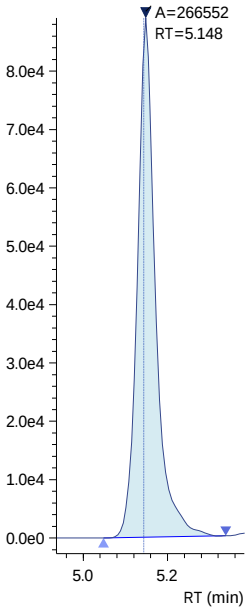
N-EtFOSAA-d5
Conc 5.0507
Q 588.80>419.00 (-) 8.91e4



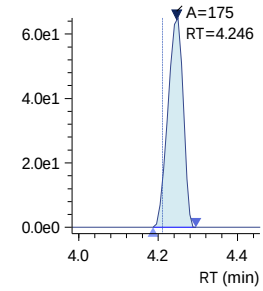
Insight Report
Before Manual Integration
Printed 8/20/2021 09:47:37

210819_028 (continued)

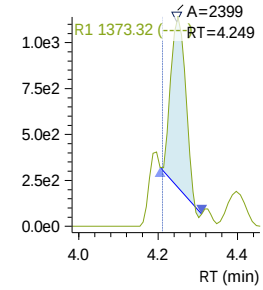
N-EtFOSAA-d5_IS
Conc 5.0000
ISTD 588.80>419.00 (-) 8.91e4



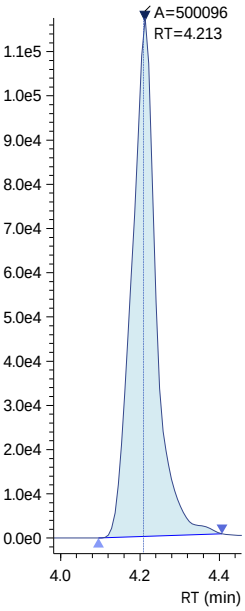
4_2-FTS_1
Conc 0.0017
R#1 1373.32 (33.17)
Q 327.00>307.05 (-) 6.50e1



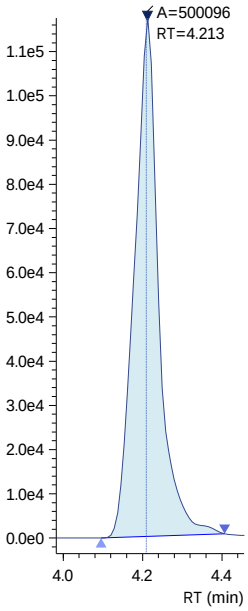
R1 327.00>81.10 (-) 1.14e3



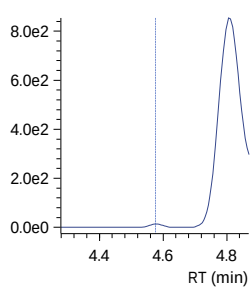
4_2-FTS-13C
Conc 4.3504
Q 328.80>309.05 (-) 1.18e5



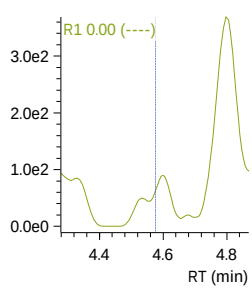
4_2-FTS-13C_IS
Conc 5.0000
ISTD 328.80>309.05 (-) 1.18e5



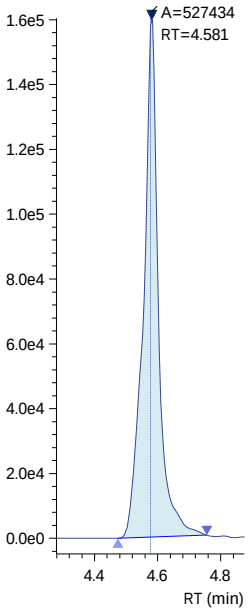
6_2-FTS_1
Conc ----
R#1 0.00 (31.24)
Q 427.00>407.00 (-) 8.54e2



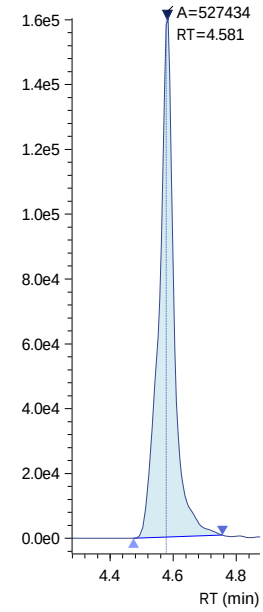
R1 427.00>80.90 (-) 3.69e2



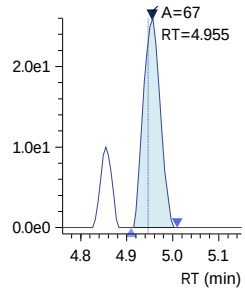
6_2-FTS-13C
Conc 4.8568
Q 428.90>409.00 (-) 1.60e5



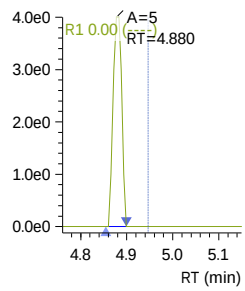
6_2-FTS-13C_IS
Conc 5.0000
ISTD 428.90>409.00 (-) 1.60e5



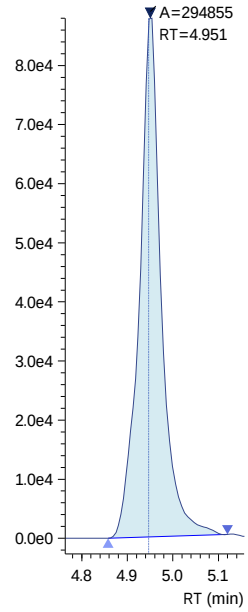
8_2-FTS_1
Conc 0.0010
R#1 0.00 (9.11)
Q 527.10>506.90 (-) 2.60e1



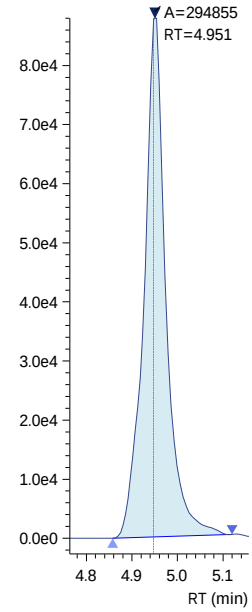
R1 527.20>487.00 (-) 4.00e0



8_2-FTS-13C
Conc 5.1012
Q 528.80>509.00 (-) 8.80e4

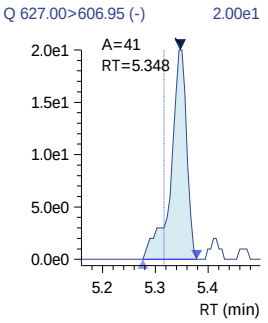


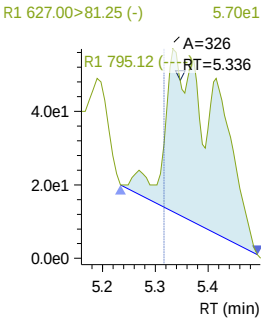
8_2-FTS-13C_IS
Conc 5.0000
ISTD 528.80>509.00 (-) 8.80e4



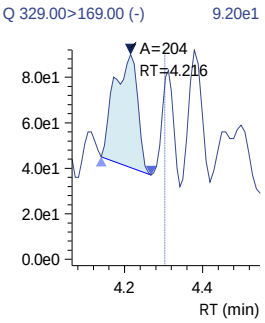
210819_028 (continued)

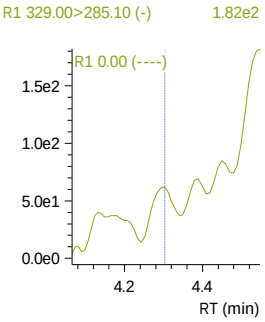
10_2-FtS_1
Conc 0.0009
R#1 795.12 (50.91)



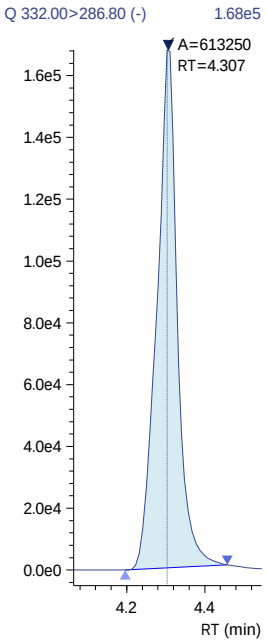


HPFO_DA
Conc 0.0018
R#1 0.00 (109.48)

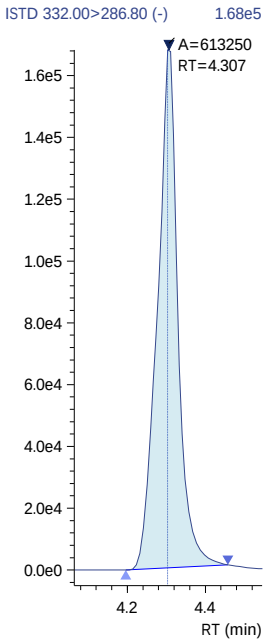




HFPO_DA-13C
Conc 4.7447



HFPO_DA-13C_IS
Conc 5.0000



Insight Report
Retention Time/Signal:Noise Ratio Confirmation
Printed 8/20/2021 11:18:22

210819_029

Sample ID: PFC ICV @ 1.0ppb
Date Acquired: 8/19/2021 8:13:23 PM
Acquired by: System Administrator
Data File: 210819_029
Vial: 8 | Inj. Volume: 15.0000uL | Tray: 0

Name	m/z	Ref 1 m/z	Found RT	RT Diff	ISTD RT Diff	S/N	Ref 1 S/N	Flag ID
13C7-PFUnDA_IS	570.00>525.00	----	5.137	0.005	----	13758	----	
PFBS_1	299.00>80.00	298.80>99.00	4.038	0.005	0.001	7126	----	
PFBS-13C	301.80>80.00	----	4.037	0.004	-1.100	284813	----	
PFBS-13C_IS	301.80>80.00	----	4.037	0.004	----	284813	----	
PFPeS	349.00>99.00	349.00>79.95	4.257	0.004	0.220	3967	(INF)	
PFHxS_1	399.00>80.00	399.00>99.00	4.421	0.007	-0.004	13695	----	
PFHxS-18O	402.70>84.05	----	4.425	0.007	-0.712	(INF)	----	
PFHxS-18O_IS	402.70>84.05	----	4.425	0.007	----	(INF)	----	
PFHpS_1	449.00>80.15	449.00>99.20	4.586	0.005	0.161	8156	----	
PFOS_1	499.00>80.00	499.00>99.00	4.757	0.005	-0.001	5078	----	
PFOS-13C	502.80>80.05	----	4.758	0.006	-0.379	(INF)	----	
PFOS-13C_IS	502.80>80.05	----	4.758	0.006	----	(INF)	----	
PFNS	549.00>99.00	549.00>79.95	4.936	0.003	0.178	996	----	
PFDS_1	599.00>79.90	599.00>99.10	5.117	0.006	0.359	(INF)	----	
PFBA	213.00>169.10	----	3.434	0.008	0.001	1447	----	
PFBA-13C	216.90>172.15	----	3.433	0.008	-1.704	9915	----	
PFBA-13C_IS	216.90>172.15	----	3.433	0.008	----	9915	----	
PFPeA	263.05>219.10	----	3.983	0.004	0.000	2144	----	
PFPeA-13C	267.90>223.00	----	3.983	0.004	-1.154	21659	----	
PFPeA-13C_IS	267.90>223.00	----	3.983	0.004	----	21659	----	
PFHxA	313.00>269.00	313.00>119.10	4.240	0.004	0.000	2380	----	
PFHxA-13C	314.90>270.10	----	4.240	0.004	-0.897	19879	----	
PFHxA-13C_IS	314.90>270.10	----	4.240	0.004	----	19879	----	
PFHpA	362.90>319.00	362.90>169.00	4.424	0.007	0.001	1038	(INF)	
PFHpA-13C	366.90>322.10	----	4.423	0.006	-0.714	26409	----	
PFHpA-13C_IS	366.90>322.10	----	4.423	0.006	----	26409	----	
PFOA	413.00>369.00	413.00>169.10	4.592	0.004	0.000	2738	----	
PFOA-13C	416.80>372.05	----	4.592	0.004	-0.545	(INF)	----	
PFOA-13C_IS	416.80>372.05	----	4.592	0.004	----	(INF)	----	
PFNA	463.00>418.90	463.00>219.00	4.769	0.004	0.000	1306	----	
PFNA-13C	467.80>423.00	----	4.769	0.004	-0.368	37159	----	
PFNA-13C_IS	467.80>423.00	----	4.769	0.004	----	37159	----	
PFDA	513.00>468.80	513.00>219.10	4.954	0.005	0.001	4139	----	
PFDA-13C	514.80>469.95	----	4.953	0.004	-0.184	33818	----	
PFDA-13C_IS	514.80>469.95	----	4.953	0.004	----	33818	----	
PFUnA	563.00>518.90	563.00>219.00	5.138	0.005	0.000	3555	----	
PFUnA-13C	564.80>519.95	----	5.138	0.006	0.001	8691	----	
PFUnA-13C_IS	564.80>519.95	----	5.138	0.006	----	8691	----	
PFDoA	613.05>569.00	613.05>169.00	5.317	0.006	0.000	(INF)	----	
PFDoA-13C	614.80>569.95	----	5.317	0.006	0.180	12275	----	
PFDoA-13C_IS	614.80>569.95	----	5.317	0.006	----	12275	----	
PFTrDA	663.00>618.90	662.90>169.00	5.482	0.006	-0.157	(INF)	----	
PFTeDA	713.00>669.00	713.00>169.10	5.639	0.005	0.000	3807	----	
PFTeDA-13C	714.70>669.90	----	5.639	0.005	0.502	52177	----	
PFTeDA-13C_IS	714.70>669.90	----	5.639	0.005	----	60307	----	
FOSA	498.20>78.00	498.20>64.10	5.235	0.004	0.000	(INF)	----	
FOSA-13C	506.00>78.05	----	5.235	0.004	0.098	1561	----	
FOSA-13C_IS	506.00>78.05	----	5.235	0.004	----	1561	----	
N-MeFOSA	512.00>169.10	512.00>219.00	5.628	0.003	0.002	3018	----	
N-MeFOSA-d3	514.90>168.90	----	5.626	0.004	0.489	634	----	
N-MeFOSA-d3_IS	514.90>168.90	----	5.626	0.004	----	634	----	

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SN - Software-calculated S/N ratio outside criteria due to non-target peaks or drift in noise calculation window. Analyst review of noise levels (excluding non-target peaks) in chromatogram indicates S/N ratio meets criteria.

210819_029 (continued)

(Table continued from previous page)

Name	m/z	Ref 1 m/z	Found RT	RT Diff	ISTD RT Diff	S/N	Ref 1 S/N	Flag ID
N-EtFOSA	526.90>169.10	526.90>219.00	5.764	0.003	0.005	696	----	
N-EtFOSA-d9	530.90>169.15	----	5.759	0.003	0.622	(INF)	----	
N-EtFOSA-d9_IS	530.90>169.15	----	5.759	0.003	----	(INF)	----	
N-MeFOSE	616.00>59.00	----	5.608	0.003	0.009	(INF)	----	
N-MeFOSE-d7	622.70>59.10	----	5.599	0.002	0.462	340	----	
N-MeFOSE-d7_IS	622.70>59.10	----	5.599	0.002	----	340	----	
N-EtFOSE	630.00>58.90	----	5.739	0.003	0.011	(INF)	----	
N-EtFOSE-d9	638.70>59.10	----	5.728	0.002	0.591	(INF)	----	
N-EtFOSE-d9_IS	638.70>59.10	----	5.728	0.002	----	(INF)	----	
N-MeFOSAA	570.20>419.00	570.20>512.00	----	----	----	----	----	
N-MeFOSAA-d3	572.80>419.05	----	5.050	0.005	-0.087	47061	----	
N-MeFOSAA-d3_IS	572.80>419.05	----	5.050	0.005	----	47061	----	
N-EtFOSAA	584.20>418.95	584.20>526.10	----	----	----	----	----	
N-EtFOSAA-d5	588.80>419.00	----	5.147	0.003	0.010	25351	----	
N-EtFOSAA-d5_IS	588.80>419.00	----	5.147	0.003	----	25351	----	
4_2-FTS_1	327.00>307.05	327.00>81.10	4.215	0.005	-0.001	40946	(INF)	
4_2-FTS-13C	328.80>309.05	----	4.216	0.006	-0.921	239668	----	
4_2-FTS-13C_IS	328.80>309.05	----	4.216	0.006	----	265510	----	
6_2-FTS_1	427.00>407.00	427.00>80.90	4.583	0.007	0.001	(INF)	213	
6_2-FTS-13C	428.90>409.00	----	4.582	0.004	-0.555	(INF)	----	
6_2-FTS-13C_IS	428.90>409.00	----	4.582	0.004	----	(INF)	----	
8_2-FTS_1	527.10>506.90	527.20>487.00	4.951	0.004	-0.001	(INF)	(INF)	
8_2-FTS-13C	528.80>509.00	----	4.952	0.005	-0.185	74438	----	
8_2-FTS-13C_IS	528.80>509.00	----	4.952	0.005	----	74438	----	
10_2-FtS_1	627.00>606.95	627.00>81.25	5.323	0.006	0.371	13620	1368	
HPFO_DA	329.00>169.00	329.00>285.10	4.308	0.005	0.000	11672	2605	
HFPO_DA-13C	332.00>286.80	----	4.308	0.004	-0.829	28303	----	
HFPO_DA-13C_IS	332.00>286.80	----	4.308	0.004	----	28303	----	

SN - Software-calculated S/N ratio outside criteria due to non-target peaks or drift in noise calculation window. Analyst review of noise levels (excluding non-target peaks) in chromatogram indicates S/N ratio meets criteria.

Insight Report
Ion Ratio Confirmation
Printed 8/20/2021 11:19:20

210819_029

Sample ID: PFC ICV @ 1.0ppb
Date Acquired: 8/19/2021 8:13:23 PM
Acquired by: System Administrator
Data File: 210819_029
Vial: 8 | Inj. Volume: 15.0000uL | Tray: 0

Name	m/z	Ref 1 m/z	Area	Ref 1 Measured	Ref 1 Actual Ratio	Ref 1 Set Ratio	Comment 1	Flag ID
13C7-PFUnDA_IS	570.00>525.00	----	5257146	----	----	----		
PFBS_1	299.00>80.00	298.80>99.00	167689	80241	47.85	47.76	23.88-71.64	
PFBS-13C	301.80>80.00	----	478710	----	----	----	0-0	
PFBS-13C_IS	301.80>80.00	----	478710	----	----	----	0-0	
PFPeS	349.00>99.00	349.00>79.95	89394	138176	154.57	136.08	68.04 -204.13	
PFHxS_1	399.00>80.00	399.00>99.00	109378	75458	68.99	71.26	35.63 -106.89	
PFHxS-18O	402.70>84.05	----	308616	----	----	----	0-0	
PFHxS-18O_IS	402.70>84.05	----	308616	----	----	----	0-0	
PFHpS_1	449.00>80.15	449.00>99.20	136384	77314	56.69	53.84	26.92-80.76	
PFOS_1	499.00>80.00	499.00>99.00	76534	66741	87.20	86.72	43.36 -130.08	
PFOS-13C	502.80>80.05	----	418942	----	----	----	0-0	
PFOS-13C_IS	502.80>80.05	----	418942	----	----	----	0-0	
PFNS	549.00>99.00	549.00>79.95	76842	92372	120.21	129.18	64.59 -193.78	
PFDS_1	599.00>79.90	599.00>99.10	105535	93574	88.67	90.77	45.38 -136.15	
PFBA	213.00>169.10	----	440328	----	----	----		
PFBA-13C	216.90>172.15	----	1941344	----	----	----		
PFBA-13C_IS	216.90>172.15	----	1941344	----	----	----		
PFPeA	263.05>219.10	----	776266	----	----	----		
PFPeA-13C	267.90>223.00	----	1286243	----	----	----	0-0	
PFPeA-13C_IS	267.90>223.00	----	1286243	----	----	----	0-0	
PFHxA	313.00>269.00	313.00>119.10	921588	39955	4.34	4.17	2.08-6.25	
PFHxA-13C	314.90>270.10	----	3415758	----	----	----	0-0	
PFHxA-13C_IS	314.90>270.10	----	3415758	----	----	----	0-0	
PFHpA	362.90>319.00	362.90>169.00	751706	203006	27.01	26.04	13.02-39.07	
PFHpA-13C	366.90>322.10	----	3379428	----	----	----	0-0	
PFHpA-13C_IS	366.90>322.10	----	3379428	----	----	----	0-0	
PFOA	413.00>369.00	413.00>169.10	1195237	367706	30.76	30.35	15.18-45.53	
PFOA-13C	416.80>372.05	----	3965251	----	----	----	0-0	
PFOA-13C_IS	416.80>372.05	----	3965251	----	----	----	0-0	
PFNA	463.00>418.90	463.00>219.00	724642	185811	25.64	22.35	11.18-33.53	
PFNA-13C	467.80>423.00	----	3152891	----	----	----	0-0	
PFNA-13C_IS	467.80>423.00	----	3152891	----	----	----	0-0	
PFDA	513.00>468.80	513.00>219.10	735835	146494	19.91	18.73	9.36-28.09	
PFDA-13C	514.80>469.95	----	2341520	----	----	----	0-0	
PFDA-13C_IS	514.80>469.95	----	2341520	----	----	----	0-0	
PFUnA	563.00>518.90	563.00>219.00	824252	96712	11.73	11.60	5.8-17.4	
PFUnA-13C	564.80>519.95	----	3166184	----	----	----	0-0	
PFUnA-13C_IS	564.80>519.95	----	3166184	----	----	----	0-0	
PFDoA	613.05>569.00	613.05>169.00	701587	122566	17.47	15.11	7.55-22.66	
PFDoA-13C	614.80>569.95	----	3500802	----	----	----	0-0	
PFDoA-13C_IS	614.80>569.95	----	3500802	----	----	----	0-0	
PFTrDA	663.00>618.90	662.90>169.00	701953	105469	15.03	14.19	7.09-21.28	
PFTeDA	713.00>669.00	713.00>169.10	525624	86377	16.43	14.98	7.49-22.46	
PFTeDA-13C	714.70>669.90	----	2356734	----	----	----	0-0	
PFTeDA-13C_IS	714.70>669.90	----	2356734	----	----	----	0-0	
FOSA	498.20>78.00	498.20>64.10	401583	20402	5.08	4.89	2.44-7.33	

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Comment 1 field specifies acceptance range for Ref 1 ratio.
IRr - Ion ratio outside criteria. Exceedances for results above the MDL to be "K" flagged in the analytical report.

210819_029 (continued)

(Table continued from previous page)

Name	m/z	Ref 1 m/z	Area	Ref 1 Measured	Ref 1 Actual Ratio	Ref 1 Set Ratio	Comment 1	Flag ID
FOSA-13C	506.00>78.05	----	1488917	----	----	----	0-0	
FOSA-13C_IS	506.00>78.05	----	1488917	----	----	----	0-0	
N-MeFOSA	512.00>169.10	512.00>219.00	128372	84016	65.45	62.72	31.36-94.08	
N-MeFOSA-d3	514.90>168.90	----	337624	----	----	----	0-0	
N-MeFOSA-d3_IS	514.90>168.90	----	337624	----	----	----	0-0	
N-EtFOSA	526.90>169.10	526.90>219.00	21175	14808	69.93	63.35	31.68-95.03	
N-EtFOSA-d9	530.90>169.15	----	357645	----	----	----	0-0	
N-EtFOSA-d9_IS	530.90>169.15	----	357645	----	----	----	0-0	
N-MeFOSE	616.00>59.00	----	156160	----	----	----		
N-MeFOSE-d7	622.70>59.10	----	331462	----	----	----		
N-MeFOSE-d7_IS	622.70>59.10	----	331462	----	----	----		
N-EtFOSE	630.00>58.90	----	163010	----	----	----		
N-EtFOSE-d9	638.70>59.10	----	333143	----	----	----	0-0	
N-EtFOSE-d9_IS	638.70>59.10	----	333143	----	----	----	0-0	
N-MeFOSAA	570.20>419.00	570.20>512.00	----	0	0.00	35.26	17.63-52.88	
N-MeFOSAA-d3	572.80>419.05	----	277593	----	----	----	0-0	
N-MeFOSAA-d3_IS	572.80>419.05	----	277593	----	----	----	0-0	
N-EtFOSAA	584.20>418.95	584.20>526.10	----	0	0.00	77.25	38.62 -115.87	
N-EtFOSAA-d5	588.80>419.00	----	266415	----	----	----	0-0	
N-EtFOSAA-d5_IS	588.80>419.00	----	266415	----	----	----	0-0	
4_2-FTS_1	327.00>307.05	327.00>81.10	103988	32259	31.02	39.85	19.92-59.77	
4_2-FTS-13C	328.80>309.05	----	544914	----	----	----	0-0	
4_2-FTS-13C_IS	328.80>309.05	----	544914	----	----	----	0-0	
6_2-FTS_1	427.00>407.00	427.00>80.90	166518	49668	29.83	29.95	14.97-44.92	
6_2-FTS-13C	428.90>409.00	----	519415	----	----	----	0-0	
6_2-FTS-13C_IS	428.90>409.00	----	519415	----	----	----	0-0	
8_2-FTS_1	527.10>506.90	527.20>487.00	69893	6967	9.97	9.42	4.71-14.13	
8_2-FTS-13C	528.80>509.00	----	286054	----	----	----	0-0	
8_2-FTS-13C_IS	528.80>509.00	----	286054	----	----	----	0-0	
10_2-FtS_1	627.00>606.95	627.00>81.25	49566	24209	48.84	49.86	24.93-74.78	
HPFO_DA	329.00>169.00	329.00>285.10	114826	116431	101.40	101.52	50.76 -152.28	
HFPO_DA-13C	332.00>286.80	----	636747	----	----	----		
HFPO_DA-13C_IS	332.00>286.80	----	636747	----	----	----		

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Comment 1 field specifies acceptance range for Ref 1 ratio.
IRr - Ion ratio outside criteria. Exceedances for results above the MDL to be "K" flagged in the analytical report.

Insight Report
Quantitation/Integration
Printed 8/20/2021 11:13:44

210819_029

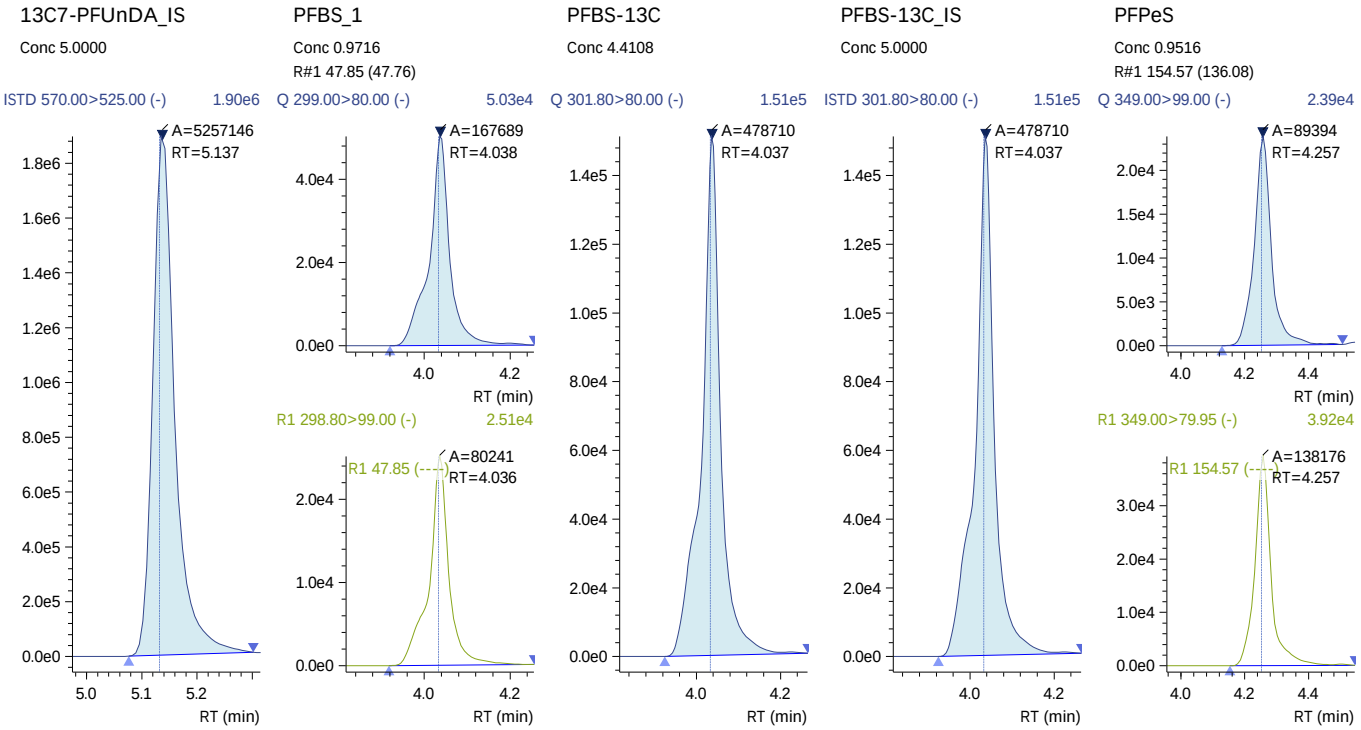
Sample ID: PFC ICV @ 1.0ppb
Date Acquired: 8/19/2021 8:13:23 PM
Acquired by: System Administrator
Data File: 210819_029
Vial: 8 | Inj. Volume: 15.0000uL | Tray: 0

Name	Mode ID	Found RT	Area	ISTD Area	ISTD Name	Std. Conc.	Conc.	Unit
13C7-PFUnDA_IS	Auto	5.137	5257146	5257146	----	5.0000	5.0000	ng/mL
PFBS_1	Auto	4.038	167689	478710	PFBS-13C_IS	0.8874	0.9716	ng/mL
PFBS-13C	Auto	4.037	478710	5257146	13C7-PFUnDA_IS	5.0000	4.4108	ng/mL
PFBS-13C_IS	Auto	4.037	478710	478710	----	5.0000	5.0000	ng/mL
PFPeS	Auto	4.257	89394	478710	PFBS-13C_IS	0.9409	0.9516	ng/mL
PFHxS_1	Auto	4.421	109378	308616	PFHxS-18O_IS	0.9131	1.0452	ng/mL
PFHxS-18O	Auto	4.425	308616	5257146	13C7-PFUnDA_IS	5.0000	4.1704	ng/mL
PFHxS-18O_IS	Auto	4.425	308616	308616	----	5.0000	5.0000	ng/mL
PFHpS_1	Auto	4.586	136384	308616	PFHxS-18O_IS	0.9534	1.0529	ng/mL
PFOS_1	Auto	4.757	76534	418942	PFOS-13C_IS	0.9292	0.9711	ng/mL
PFOS-13C	Auto	4.758	418942	5257146	13C7-PFUnDA_IS	5.0000	4.5551	ng/mL
PFOS-13C_IS	Auto	4.758	418942	418942	----	5.0000	5.0000	ng/mL
PFNS	Auto	4.936	76842	418942	PFOS-13C_IS	0.9616	1.0782	ng/mL
PFDS_1	Auto	5.117	105535	418942	PFOS-13C_IS	0.9647	1.0310	ng/mL
PFBA	M	3.434	440328	1941344	PFBA-13C_IS	1.0000	0.9262	ng/mL
PFBA-13C	Auto	3.433	1941344	5257146	13C7-PFUnDA_IS	5.0000	4.5213	ng/mL
PFBA-13C_IS	Auto	3.433	1941344	1941344	----	5.0000	5.0000	ng/mL
PFPeA	Auto	3.983	776266	1286243	PFPeA-13C_IS	1.0000	0.9489	ng/mL
PFPeA-13C	Auto	3.983	1286243	5257146	13C7-PFUnDA_IS	5.0000	4.5456	ng/mL
PFPeA-13C_IS	Auto	3.983	1286243	1286243	----	5.0000	5.0000	ng/mL
PFHxA	Auto	4.240	921588	3415758	PFHxA-13C_IS	1.0000	0.9958	ng/mL
PFHxA-13C	Auto	4.240	3415758	5257146	13C7-PFUnDA_IS	5.0000	4.3842	ng/mL
PFHxA-13C_IS	Auto	4.240	3415758	3415758	----	5.0000	5.0000	ng/mL
PFHpA	Auto	4.424	751706	3379428	PFHpA-13C_IS	1.0000	1.0229	ng/mL
PFHpA-13C	Auto	4.423	3379428	5257146	13C7-PFUnDA_IS	5.0000	4.2723	ng/mL
PFHpA-13C_IS	Auto	4.423	3379428	3379428	----	5.0000	5.0000	ng/mL
PFOA	Auto	4.592	1195237	3965251	PFOA-13C_IS	1.0000	0.9807	ng/mL
PFOA-13C	Auto	4.592	3965251	5257146	13C7-PFUnDA_IS	5.0000	4.5029	ng/mL
PFOA-13C_IS	Auto	4.592	3965251	3965251	----	5.0000	5.0000	ng/mL
PFNA	Auto	4.769	724642	3152891	PFNA-13C_IS	1.0000	0.9311	ng/mL
PFNA-13C	Auto	4.769	3152891	5257146	13C7-PFUnDA_IS	5.0000	4.6937	ng/mL
PFNA-13C_IS	Auto	4.769	3152891	3152891	----	5.0000	5.0000	ng/mL
PFDA	Auto	4.954	735835	2341520	PFDA-13C_IS	1.0000	1.0506	ng/mL
PFDA-13C	Auto	4.953	2341520	5257146	13C7-PFUnDA_IS	5.0000	4.7161	ng/mL
PFDA-13C_IS	Auto	4.953	2341520	2341520	----	5.0000	5.0000	ng/mL
PFUnA	Auto	5.138	824252	3166184	PFUnA-13C_IS	1.0000	1.0898	ng/mL
PFUnA-13C	Auto	5.138	3166184	5257146	13C7-PFUnDA_IS	5.0000	4.7863	ng/mL
PFUnA-13C_IS	Auto	5.138	3166184	3166184	----	5.0000	5.0000	ng/mL
PFDoA	Auto	5.317	701587	3500802	PFDoA-13C_IS	1.0000	1.0300	ng/mL
PFDoA-13C	Auto	5.317	3500802	5257146	13C7-PFUnDA_IS	5.0000	4.8312	ng/mL
PFDoA-13C_IS	Auto	5.317	3500802	3500802	----	5.0000	5.0000	ng/mL
PFTrDA	Auto	5.482	701953	2356734	PFTeDA-13C_IS	1.0000	1.0032	ng/mL
PFTeDA	Auto	5.639	525624	2356734	PFTeDA-13C_IS	1.0000	0.9920	ng/mL
PFTeDA-13C	Auto	5.639	2356734	5257146	13C7-PFUnDA_IS	5.0000	4.8059	ng/mL
PFTeDA-13C_IS	Auto	5.639	2356734	2356734	----	5.0000	5.0000	ng/mL
FOSA	Auto	5.235	401583	1488917	FOSA-13C_IS	1.0000	1.0612	ng/mL
FOSA-13C	Auto	5.235	1488917	5257146	13C7-PFUnDA_IS	5.0000	4.7678	ng/mL
FOSA-13C_IS	Auto	5.235	1488917	1488917	----	5.0000	5.0000	ng/mL
N-MeFOSA	Auto	5.628	128372	337624	N-MeFOSA-d3_IS	1.0000	1.0157	ng/mL
N-MeFOSA-d3	Auto	5.626	337624	5257146	13C7-PFUnDA_IS	5.0000	4.6497	ng/mL
N-MeFOSA-d3_IS	Auto	5.626	337624	337624	----	5.0000	5.0000	ng/mL
N-EtFOSA	M	5.764	21175	357645	N-EtFOSA-d9_IS	1.0000	0.9448	ng/mL
N-EtFOSA-d9	Auto	5.759	357645	5257146	13C7-PFUnDA_IS	5.0000	4.3349	ng/mL
N-EtFOSA-d9_IS	Auto	5.759	357645	357645	----	5.0000	5.0000	ng/mL

210819_029 (continued)

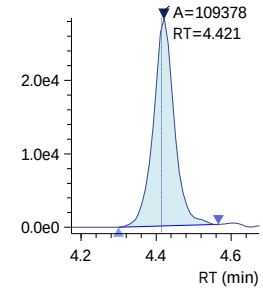
(Table continued from previous page)

Name	Mode ID	Found RT	Area	ISTD Area	ISTD Name	Std. Conc.	Conc.	Unit
N-MeFOSE	Auto	5.608	156160	331462	N-MeFOSE-d7_IS	1.0000	1.0758	ng/mL
N-MeFOSE-d7	Auto	5.599	331462	5257146	13C7-PFUnDA_IS	5.0000	4.5648	ng/mL
N-MeFOSE-d7_IS	Auto	5.599	331462	331462	----	5.0000	5.0000	ng/mL
N-EtFOSE	Auto	5.739	163010	333143	N-EtFOSE-d9_IS	1.0000	1.0693	ng/mL
N-EtFOSE-d9	Auto	5.728	333143	5257146	13C7-PFUnDA_IS	5.0000	4.4314	ng/mL
N-EtFOSE-d9_IS	Auto	5.728	333143	333143	----	5.0000	5.0000	ng/mL
N-MeFOSAA	ND(W/B)	----	----	277593	N-MeFOSAA-d3_IS	1.0000	----	ng/mL
N-MeFOSAA-d3	Auto	5.050	277593	5257146	13C7-PFUnDA_IS	5.0000	4.6873	ng/mL
N-MeFOSAA-d3_IS	Auto	5.050	277593	277593	----	5.0000	5.0000	ng/mL
N-EtFOSAA	ND(W/B)	----	----	266415	N-EtFOSAA-d5_IS	1.0000	----	ng/mL
N-EtFOSAA-d5	Auto	5.147	266415	5257146	13C7-PFUnDA_IS	5.0000	4.8323	ng/mL
N-EtFOSAA-d5_IS	Auto	5.147	266415	266415	----	5.0000	5.0000	ng/mL
4_2-FTS_1	Auto	4.215	103988	544914	4_2-FTS-13C_IS	0.9372	0.9525	ng/mL
4_2-FTS-13C	Auto	4.216	544914	5257146	13C7-PFUnDA_IS	5.0000	4.5105	ng/mL
4_2-FTS-13C_IS	Auto	4.216	544914	544914	----	5.0000	5.0000	ng/mL
6_2-FTS_1	Auto	4.583	166518	519415	6_2-FTS-13C_IS	0.9512	1.1525	ng/mL
6_2-FTS-13C	Auto	4.582	519415	5257146	13C7-PFUnDA_IS	5.0000	4.5511	ng/mL
6_2-FTS-13C_IS	Auto	4.582	519415	519415	----	5.0000	5.0000	ng/mL
8_2-FTS_1	Auto	4.951	69893	286054	8_2-FTS-13C_IS	0.9600	1.0505	ng/mL
8_2-FTS-13C	Auto	4.952	286054	5257146	13C7-PFUnDA_IS	5.0000	4.7090	ng/mL
8_2-FTS-13C_IS	Auto	4.952	286054	286054	----	5.0000	5.0000	ng/mL
10_2-FtS_1	Auto	5.323	49566	286054	8_2-FTS-13C_IS	0.9662	1.0769	ng/mL
HPFO_DA	Auto	4.308	114826	636747	HFPO_DA-13C_IS	1.0000	0.9914	ng/mL
HFPO_DA-13C	Auto	4.308	636747	5257146	13C7-PFUnDA_IS	5.0000	4.6876	ng/mL
HFPO_DA-13C_IS	Auto	4.308	636747	636747	----	5.0000	5.0000	ng/mL

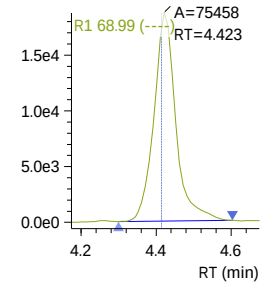


210819_029 (continued)

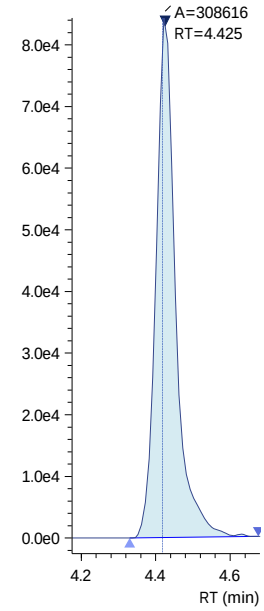
PFHxS_1
Conc 1.0452
R#1 68.99 (71.26)
Q 399.00>80.00 (-) 2.85e4



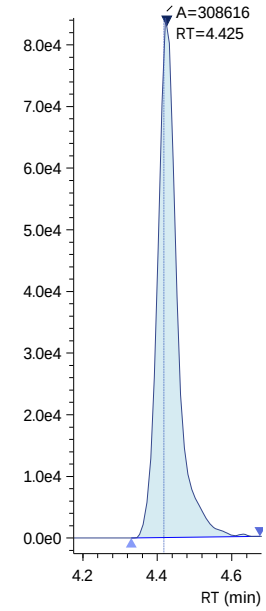
R1 399.00>99.00 (-) 1.88e4



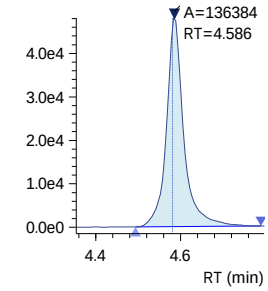
PFHxS-18O
Conc 4.1704
Q 402.70>84.05 (-) 8.44e4



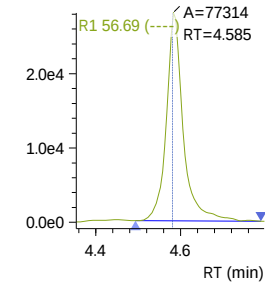
PFHxS-18O_IS
Conc 5.0000
ISTD 402.70>84.05 (-) 8.44e4



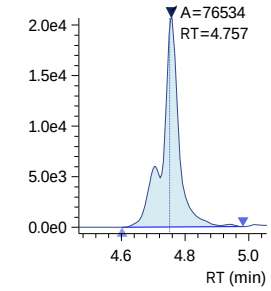
PFHpS_1
Conc 1.0529
R#1 56.69 (53.84)
Q 449.00>80.15 (-) 4.81e4



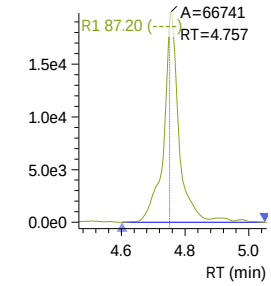
R1 449.00>99.20 (-) 2.82e4



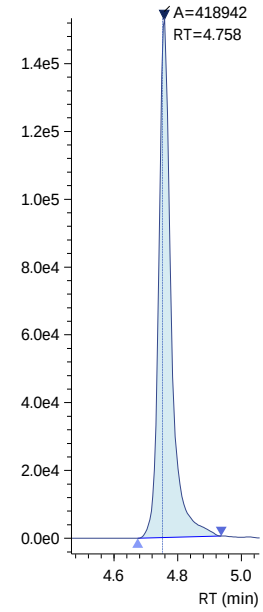
PFOS_1
Conc 0.9711
R#1 87.20 (86.72)
Q 499.00>80.00 (-) 2.07e4



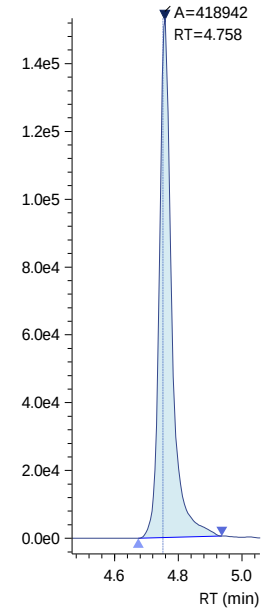
R1 499.00>99.00 (-) 1.98e4



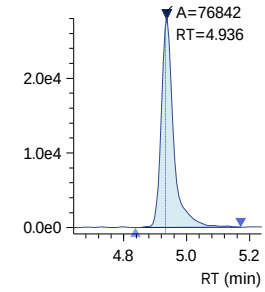
PFOS-13C
Conc 4.5551
Q 502.80>80.05 (-) 1.53e5



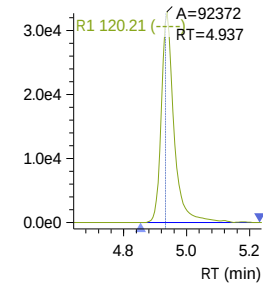
PFOS-13C_IS
Conc 5.0000
ISTD 502.80>80.05 (-) 1.53e5



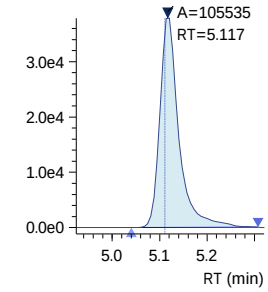
PFNS
Conc 1.0782
R#1 120.21 (129.18)
Q 549.00>99.00 (-) 2.80e4



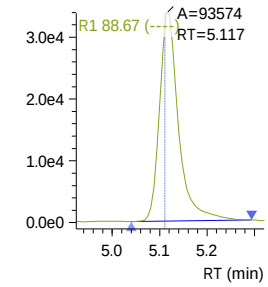
R1 549.00>79.95 (-) 3.27e4



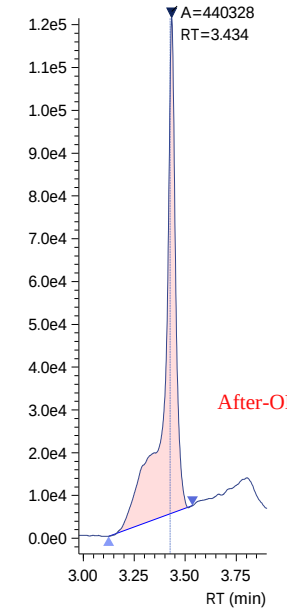
PFDS_1
Conc 1.0310
R#1 88.67 (90.77)
Q 599.00>79.90 (-) 3.78e4



R1 599.00>99.10 (-) 3.39e4

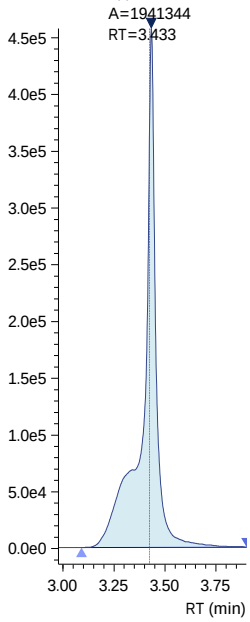


PFBA
Conc 0.9262
Q 213.00>169.10 (-) 1.22e5

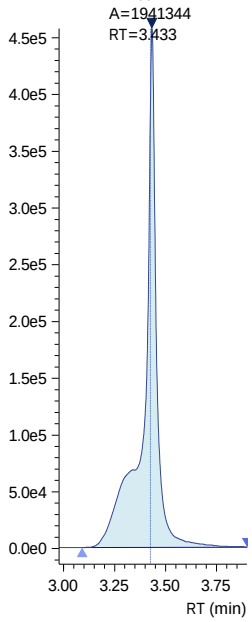


210819_029 (continued)

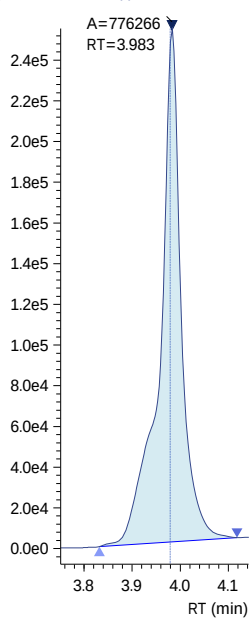
PFBA-13C
Conc 4.5213
Q 216.90>172.15 (-) 4.58e5



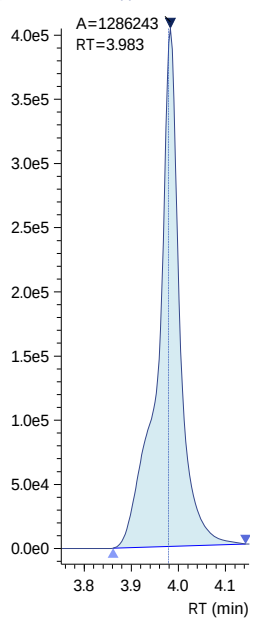
PFBA-13C_IS
Conc 5.0000
ISTD 216.90>172.15 (-) 4.58e5



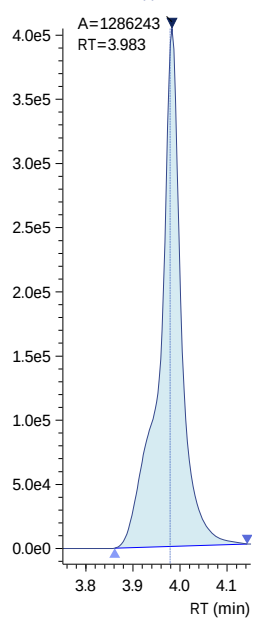
PFPeA
Conc 0.9489
Q 263.05>219.10 (-) 2.56e5



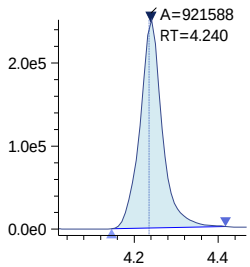
PFPeA-13C
Conc 4.5456
Q 267.90>223.00 (-) 4.05e5



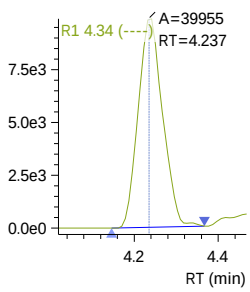
PFPeA-13C_IS
Conc 5.0000
ISTD 267.90>223.00 (-) 4.05e5



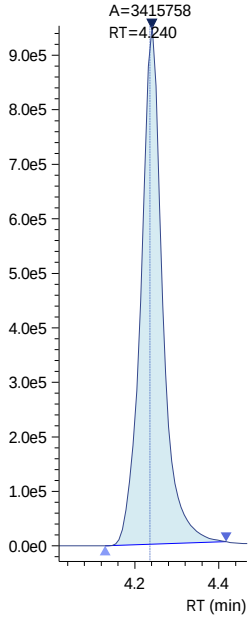
PFHxA
Conc 0.9958
R#1 4.34 (4.17)
Q 313.00>269.00 (-) 2.52e5



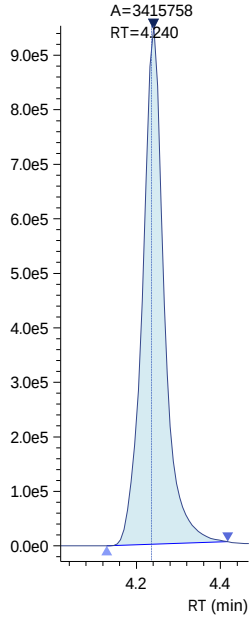
R1 313.00>119.10 (-) 9.90e3



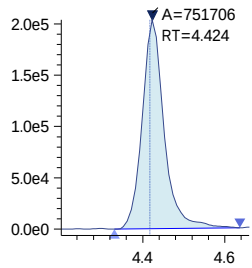
PFHxA-13C
Conc 4.3842
Q 314.90>270.10 (-) 9.54e5



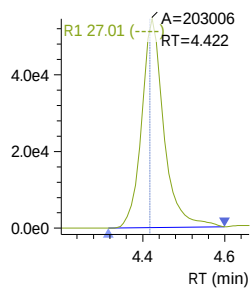
PFHxA-13C_IS
Conc 5.0000
ISTD 314.90>270.10 (-) 9.54e5



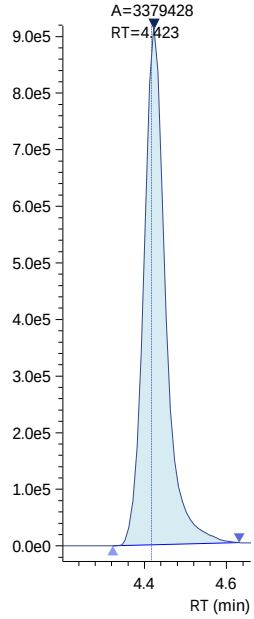
PFHpA
Conc 1.0229
R#1 27.01 (26.04)
Q 362.90>319.00 (-) 2.04e5



R1 362.90>169.00 (-) 5.46e4

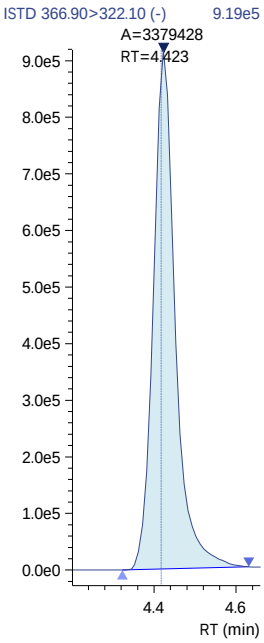


PFHpA-13C
Conc 4.2723
Q 366.90>322.10 (-) 9.19e5

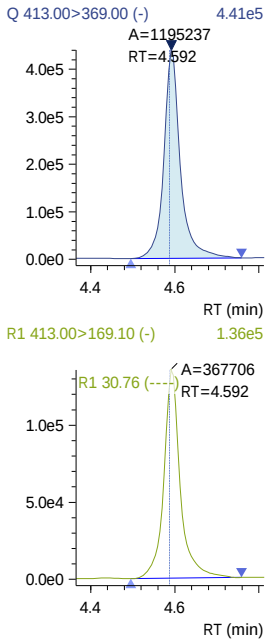


210819_029 (continued)

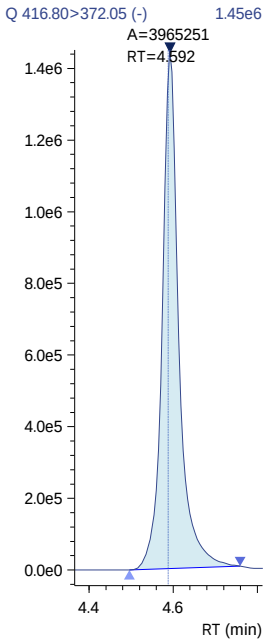
PFHpA-13C_IS
Conc 5.0000



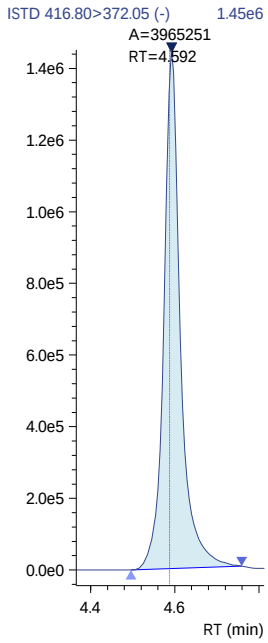
PFOA
Conc 0.9807
R#1 30.76 (30.35)



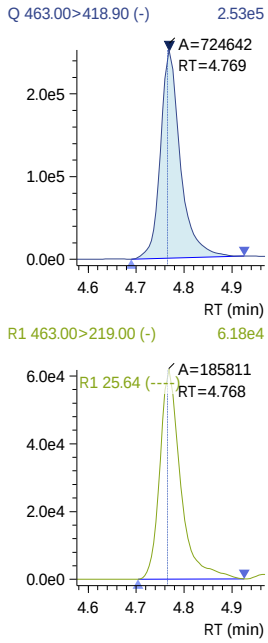
PFOA-13C
Conc 4.5029



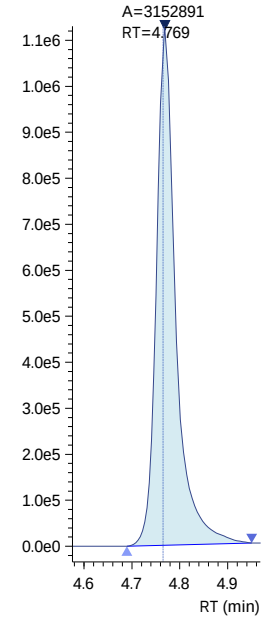
PFOA-13C_IS
Conc 5.0000



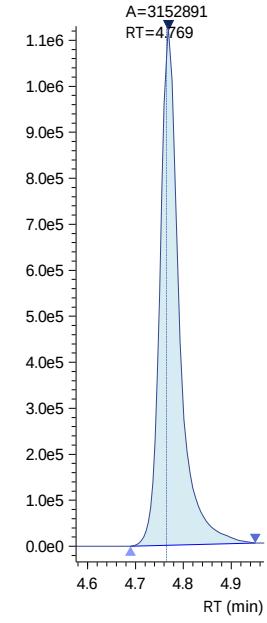
PFNA
Conc 0.9311
R#1 25.64 (22.35)



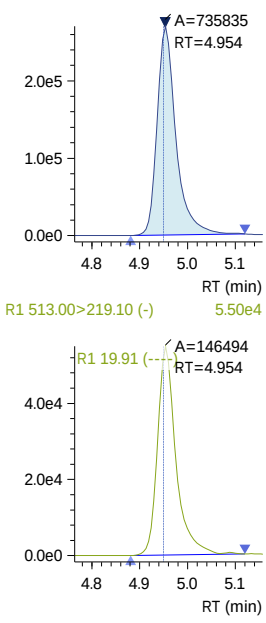
PFNA-13C
Conc 4.6937



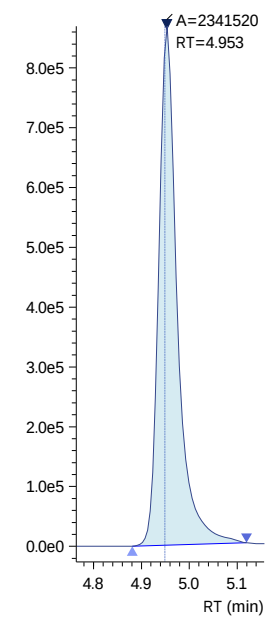
PFNA-13C_IS
Conc 5.0000



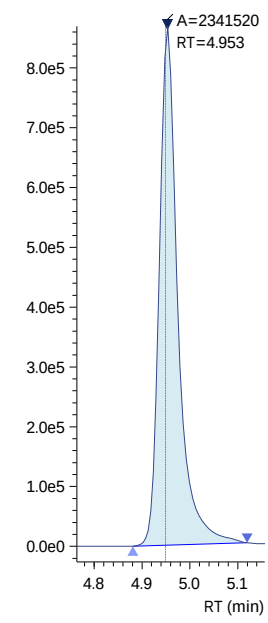
PFDA
Conc 1.0506
R#1 19.91 (18.73)



PFDA-13C
Conc 4.7161

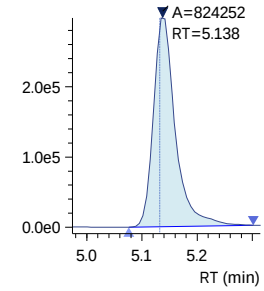


PFDA-13C_IS
Conc 5.0000

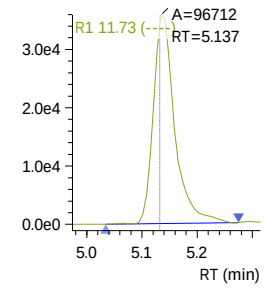


210819_029 (continued)

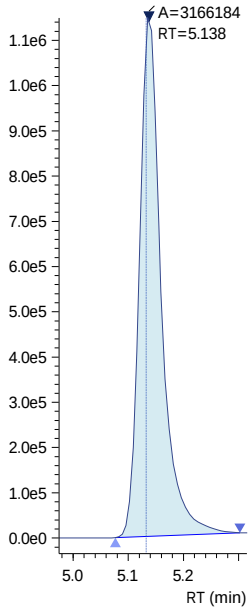
PFUnA
Conc 1.0898
R#1 11.73 (11.60)
Q 563.00>518.90 (-) 2.98e5



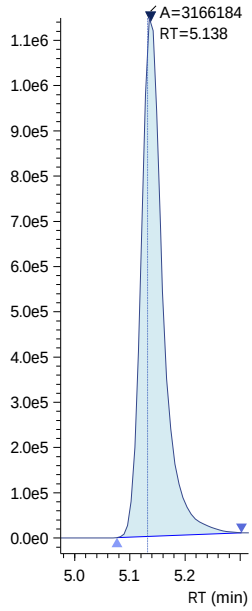
R1 563.00>219.00 (-) 3.59e4



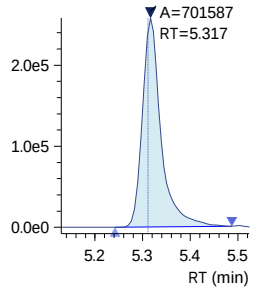
PFUnA-13C
Conc 4.7863
Q 564.80>519.95 (-) 1.15e6



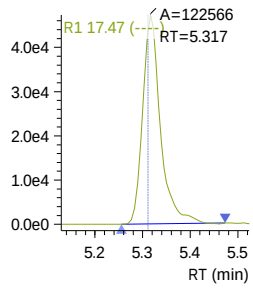
PFUnA-13C_IS
Conc 5.0000
ISTD 564.80>519.95 (-) 1.15e6



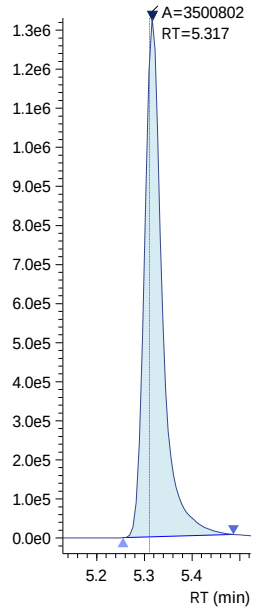
PFDoA
Conc 1.0300
R#1 17.47 (15.11)
Q 613.05>569.00 (-) 2.58e5



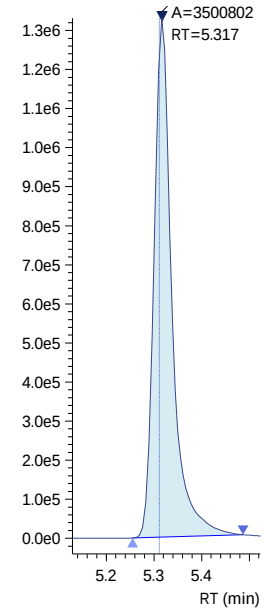
R1 613.05>169.00 (-) 4.73e4



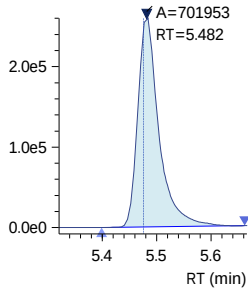
PFDoA-13C
Conc 4.8312
Q 614.80>569.95 (-) 1.33e6



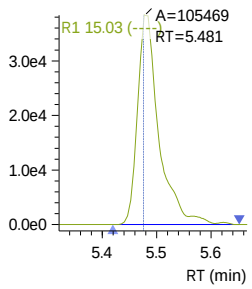
PFDoA-13C_IS
Conc 5.0000
ISTD 614.80>569.95 (-) 1.33e6



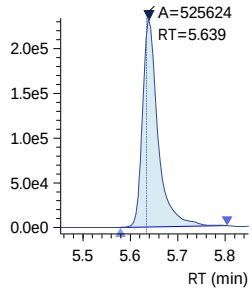
PFTrDA
Conc 1.0032
R#1 15.03 (14.19)
Q 663.00>618.90 (-) 2.60e5



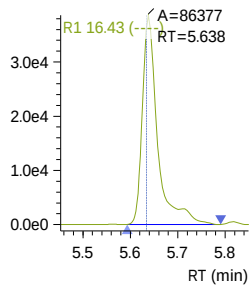
R1 662.90>169.00 (-) 3.84e4



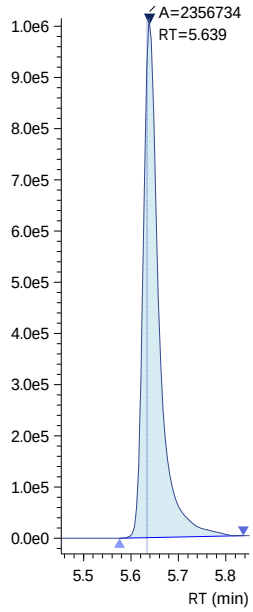
PFTeDA
Conc 0.9920
R#1 16.43 (14.98)
Q 713.00>669.00 (-) 2.34e5



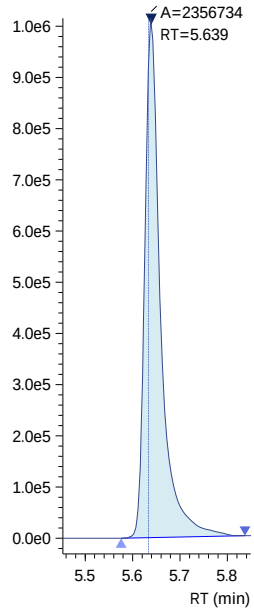
R1 713.00>169.10 (-) 3.86e4



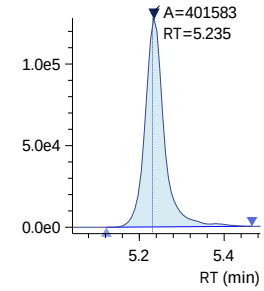
PFTeDA-13C
Conc 4.8059
Q 714.70>669.90 (-) 1.02e6

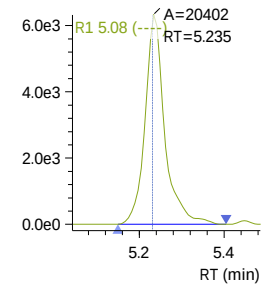


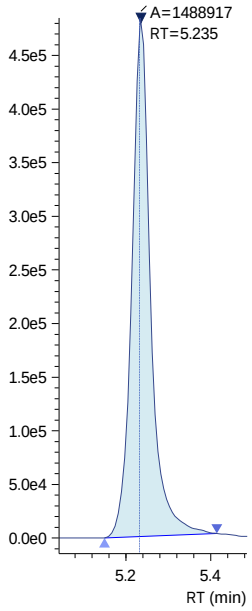
PFTeDA-13C_IS
Conc 5.0000
ISTD 714.70>669.90 (-) 1.02e6

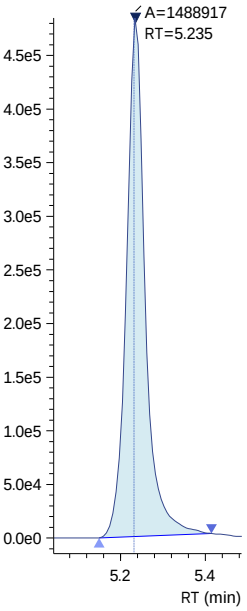


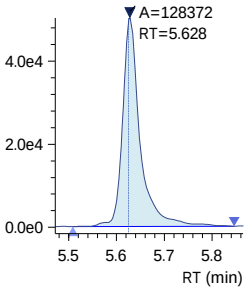
210819_029 (continued)

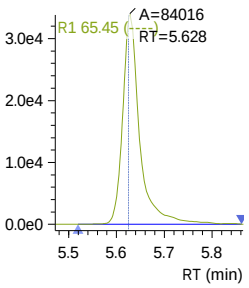
FOSA
Conc 1.0612
R#1 5.08 (4.89)
Q 498.20>78.00 (-) 1.28e5


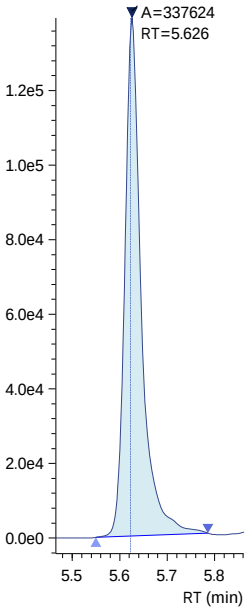
R1 498.20>64.10 (-) 6.32e3


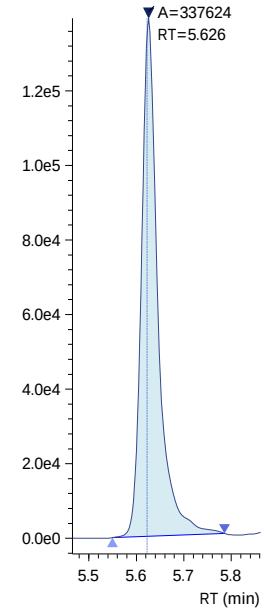
FOSA-13C
Conc 4.7678
Q 506.00>78.05 (-) 4.85e5


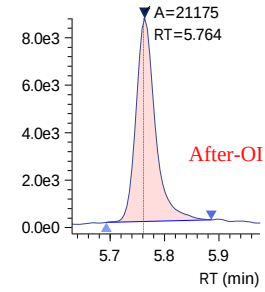
FOSA-13C_IS
Conc 5.0000
ISTD 506.00>78.05 (-) 4.85e5


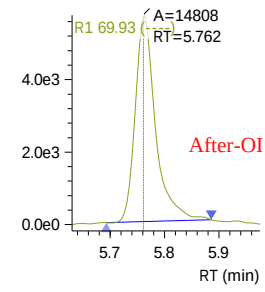
N-MeFOSA
Conc 1.0157
R#1 65.45 (62.72)
Q 512.00>169.10 (-) 5.04e4


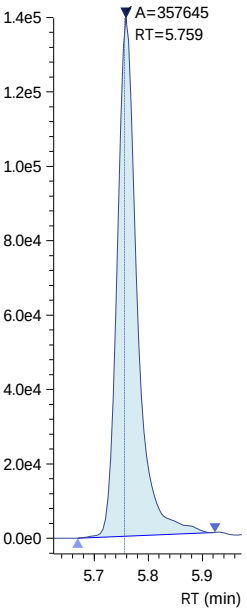
R1 512.00>219.00 (-) 3.38e4


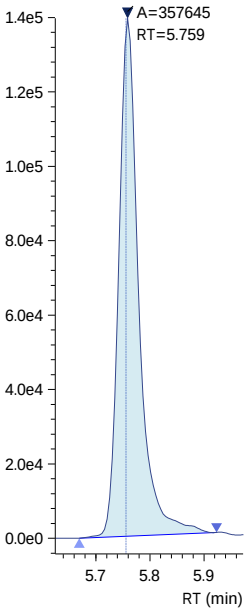
N-MeFOSA-d3
Conc 4.6497
Q 514.90>168.90 (-) 1.39e5


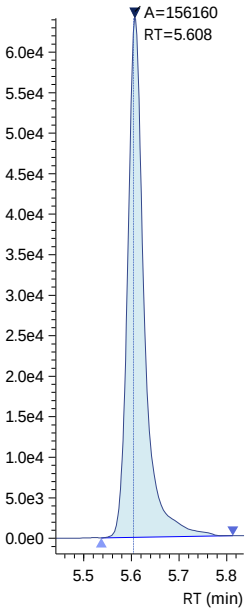
N-MeFOSA-d3_IS
Conc 5.0000
ISTD 514.90>168.90 (-) 1.39e5


N-EtFOSA
Conc 0.9448
R#1 69.93 (63.35)
Q 526.90>169.10 (-) 8.82e3


R1 526.90>219.00 (-) 5.78e3


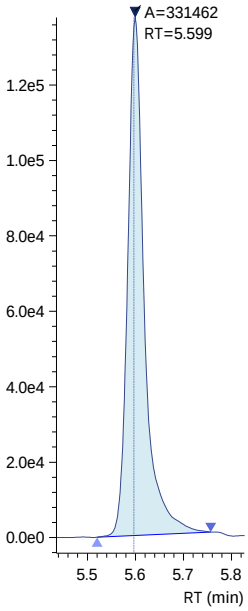
N-EtFOSA-d9
Conc 4.3349
Q 530.90>169.15 (-) 1.40e5


N-EtFOSA-d9_IS
Conc 5.0000
ISTD 530.90>169.15 (-) 1.40e5


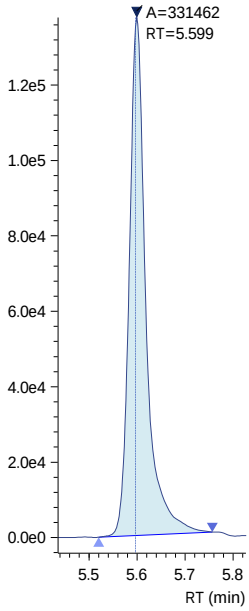
N-MeFOSE
Conc 1.0758
Q 616.00>59.00 (-) 6.42e4


210819_029 (continued)

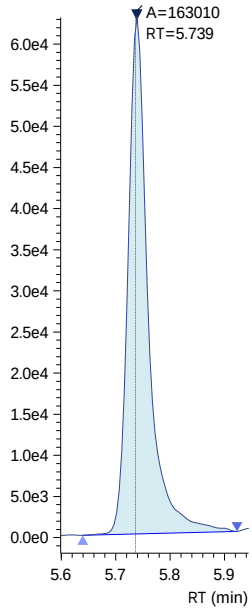
N-MeFOSE-d7
Conc 4.5648
Q 622.70>59.10 (-) 1.38e5



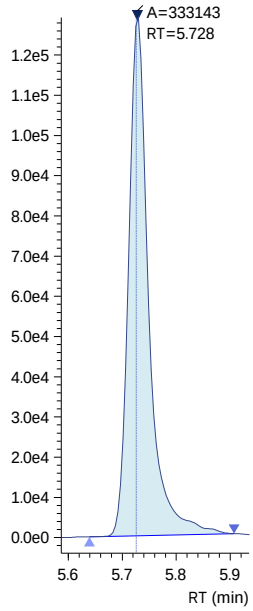
N-MeFOSE-d7_IS
Conc 5.0000
ISTD 622.70>59.10 (-) 1.38e5



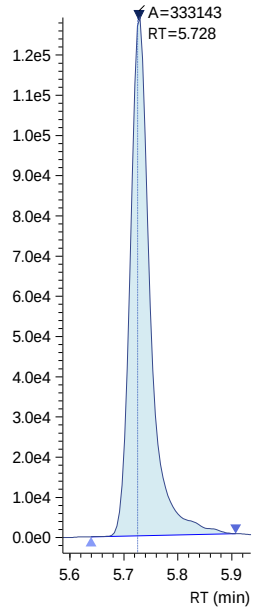
N-EtFOSE
Conc 1.0693
Q 630.00>58.90 (-) 6.32e4



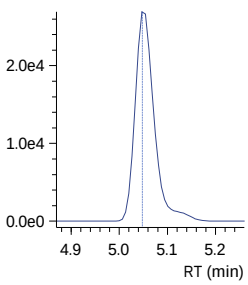
N-EtFOSE-d9
Conc 4.4314
Q 638.70>59.10 (-) 1.29e5



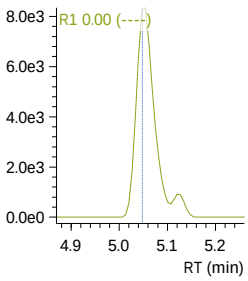
N-EtFOSE-d9_IS
Conc 5.0000
ISTD 638.70>59.10 (-) 1.29e5



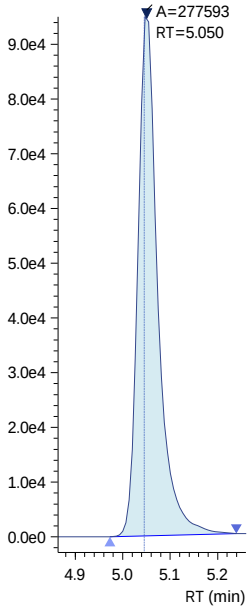
N-MeFOSAA
Conc ----
R#1 0.00 (35.26)
Q 570.20>419.00 (-) 2.69e4



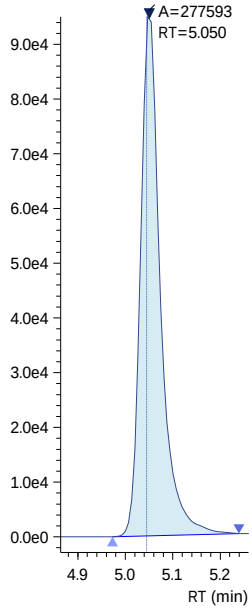
R1 570.20>512.00 (-) 8.34e3



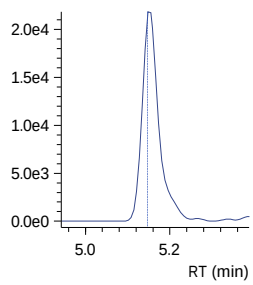
N-MeFOSAA-d3
Conc 4.6873
Q 572.80>419.05 (-) 9.50e4



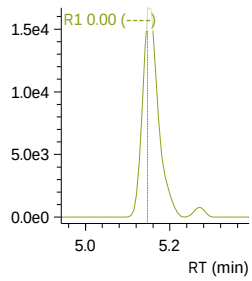
N-MeFOSAA-d3_IS
Conc 5.0000
ISTD 572.80>419.05 (-) 9.50e4



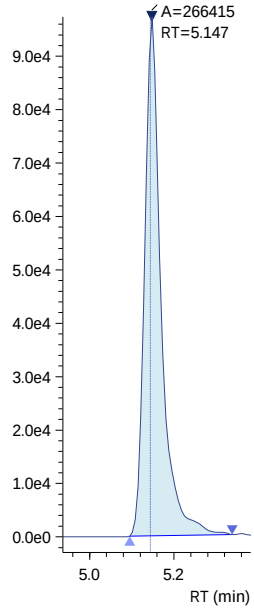
N-EtFOSAA
Conc ----
R#1 0.00 (77.25)
Q 584.20>418.95 (-) 2.18e4



R1 584.20>526.10 (-) 1.67e4

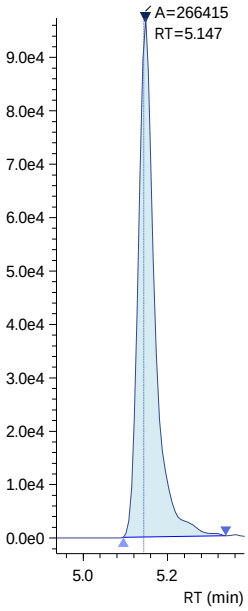


N-EtFOSAA-d5
Conc 4.8323
Q 588.80>419.00 (-) 9.74e4

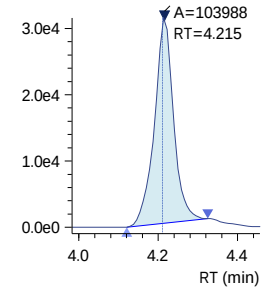


210819_029 (continued)

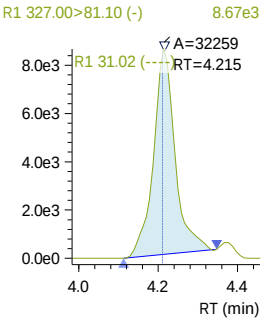
N-EtFOSAA-d5_IS
Conc 5.0000
ISTD 588.80>419.00 (-) 9.74e4



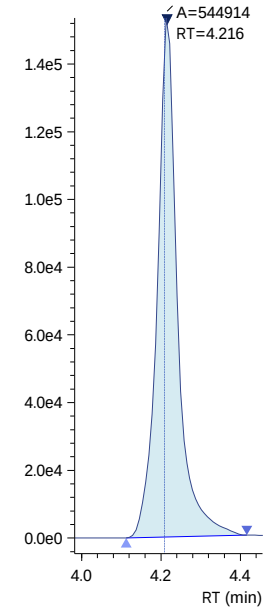
4_2-FTS_1
Conc 0.9525
R#1 31.02 (39.85)
Q 327.00>307.05 (-) 3.16e4



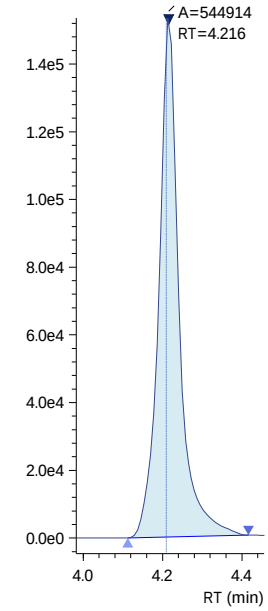
R1 327.00>81.10 (-) 8.67e3



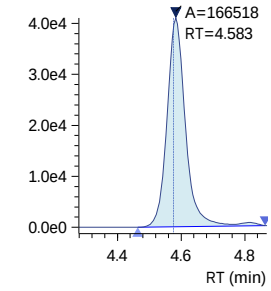
4_2-FTS-13C
Conc 4.5105
Q 328.80>309.05 (-) 1.54e5



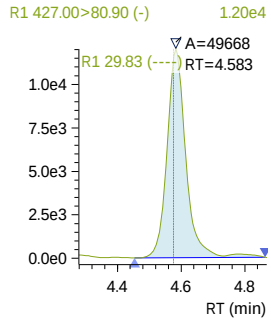
4_2-FTS-13C_IS
Conc 5.0000
ISTD 328.80>309.05 (-) 1.54e5



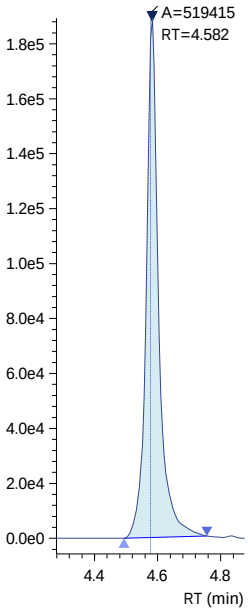
6_2-FTS_1
Conc 1.1525
R#1 29.83 (29.95)
Q 427.00>407.00 (-) 4.11e4



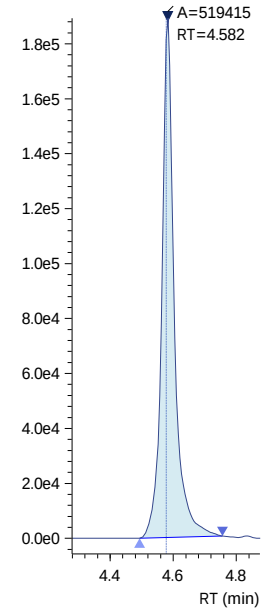
R1 427.00>80.90 (-) 1.20e4



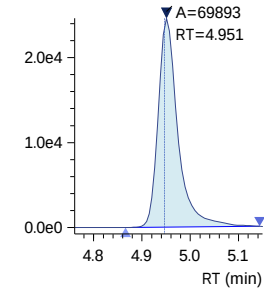
6_2-FTS-13C
Conc 4.5511
Q 428.90>409.00 (-) 1.89e5



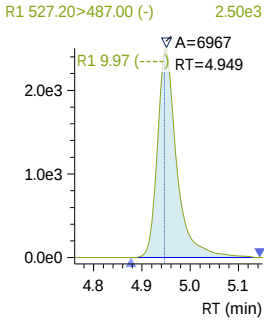
6_2-FTS-13C_IS
Conc 5.0000
ISTD 428.90>409.00 (-) 1.89e5



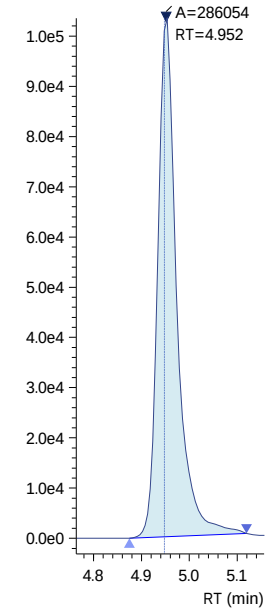
8_2-FTS_1
Conc 1.0505
R#1 9.97 (9.42)
Q 527.10>506.90 (-) 2.46e4



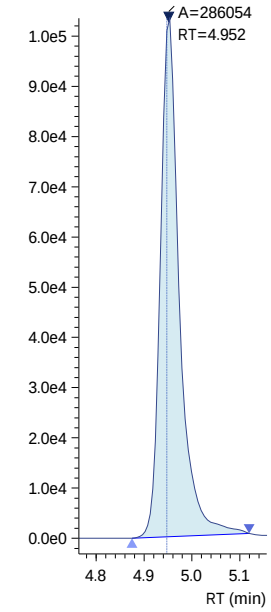
R1 527.20>487.00 (-) 2.50e3



8_2-FTS-13C
Conc 4.7090
Q 528.80>509.00 (-) 1.04e5

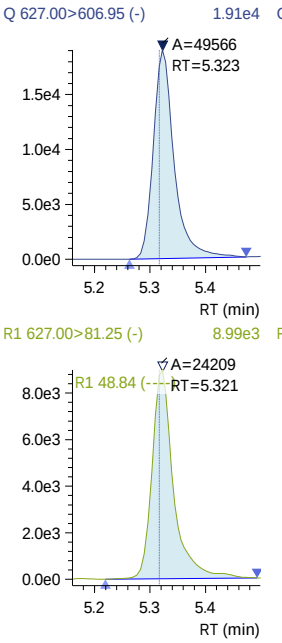


8_2-FTS-13C_IS
Conc 5.0000
ISTD 528.80>509.00 (-) 1.04e5

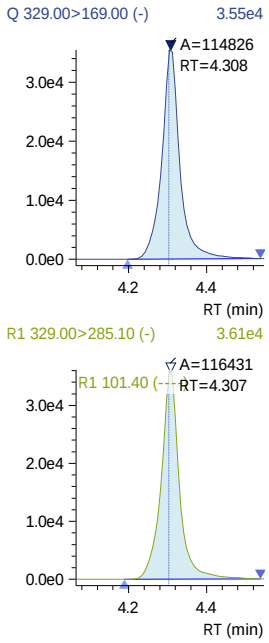


210819_029 (continued)

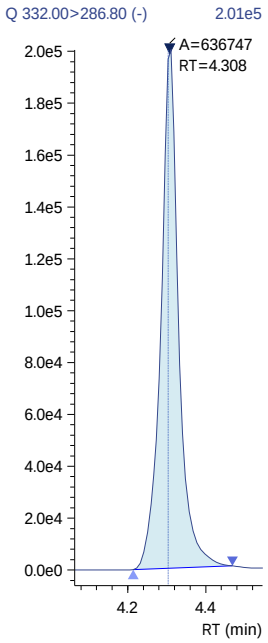
10_2-FtS_1
Conc 1.0769
R#1 48.84 (49.86)



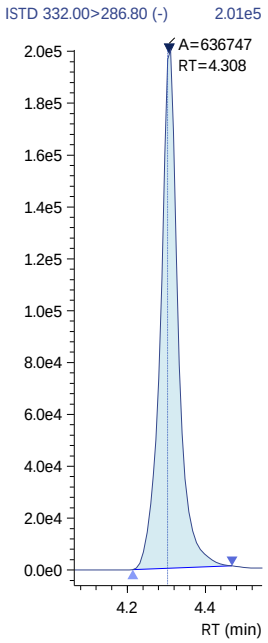
HPFO_DA
Conc 0.9914
R#1 101.40 (101.52)



HFPO_DA-13C
Conc 4.6876



HFPO_DA-13C_IS
Conc 5.0000

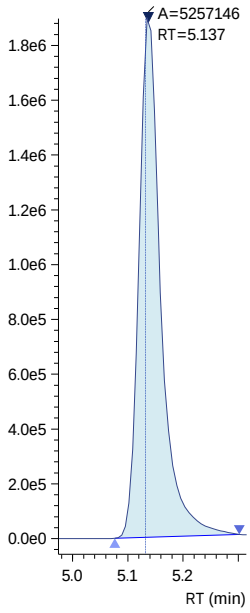


Insight Report
Before Manual Integration
Printed 8/20/2021 09:47:37

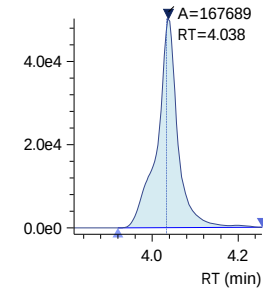
210819_029

Sample ID: PFC ICV @ 1.0ppb
Date Acquired: 8/19/2021 8:13:23 PM
Acquired by: System Administrator
Data File: 210819_029
Vial: 8 | Inj. Volume: 15.0000uL | Tray: 0

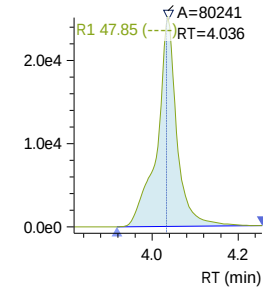
13C7-PFUnDA_IS
Conc 5.0000
ISTD 570.00>525.00 (-) 1.90e6



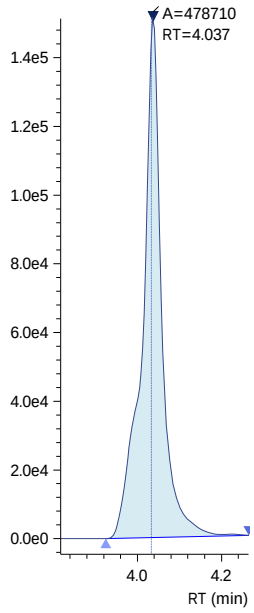
PFBS_1
Conc 0.9588
R#1 47.85 (48.11)
Q 299.00>80.00 (-) 5.03e4



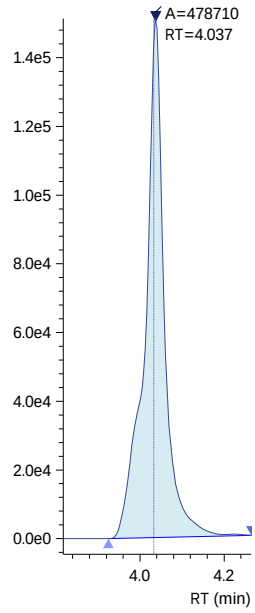
R1 298.80>99.00 (-) 2.51e4



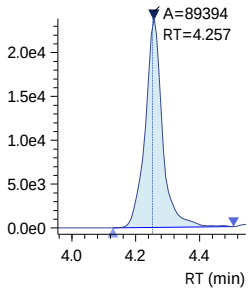
PFBS-13C
Conc 4.4136
Q 301.80>80.00 (-) 1.51e5



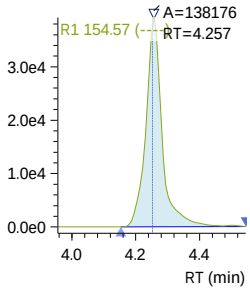
PFBS-13C_IS
Conc 5.0000
ISTD 301.80>80.00 (-) 1.51e5



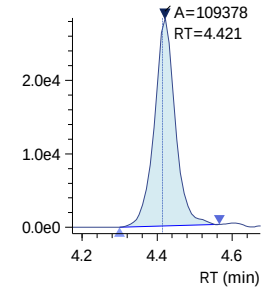
PFPeS
Conc 0.9233
R#1 154.57 (149.27)
Q 349.00>99.00 (-) 2.39e4

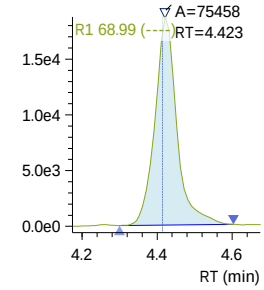


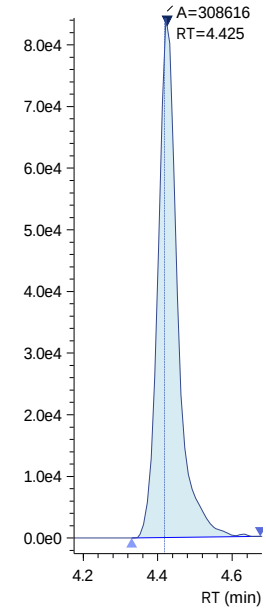
R1 349.00>79.95 (-) 3.92e4

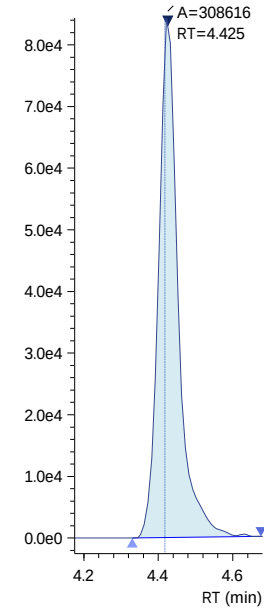


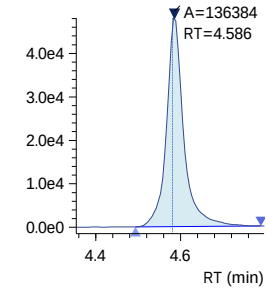
210819_029 (continued)

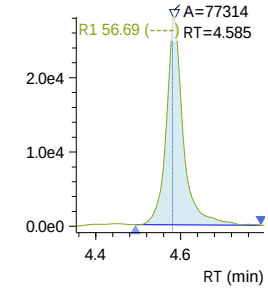
PFHxS_1
Conc 0.9590
R#1 68.99 (83.10)
Q 399.00>80.00 (-) 2.85e4


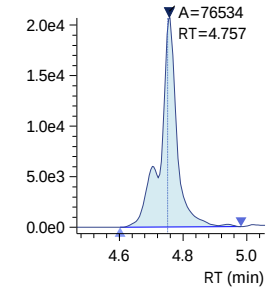
R1 399.00>99.00 (-) 1.88e4


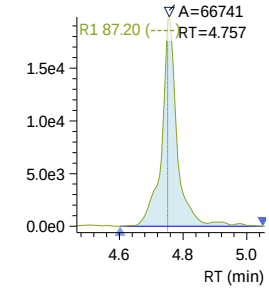
PFHxS-18O
Conc 4.1704
Q 402.70>84.05 (-) 8.44e4


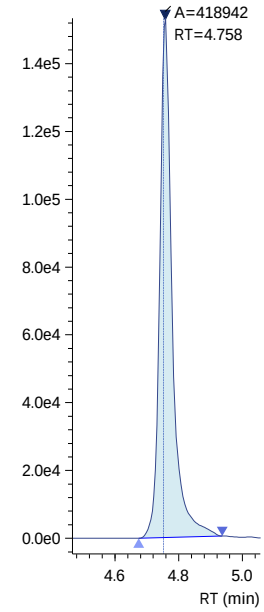
PFHxS-18O_IS
Conc 5.0000
ISTD 402.70>84.05 (-) 8.44e4


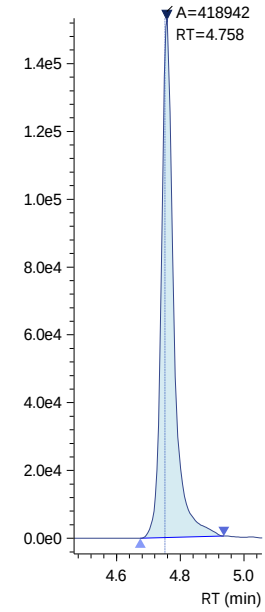
PFHpS_1
Conc 1.0396
R#1 56.69 (58.24)
Q 449.00>80.15 (-) 4.81e4


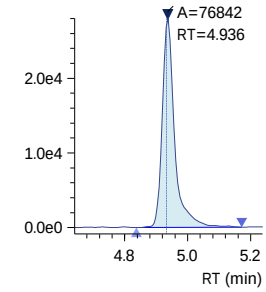
R1 449.00>99.20 (-) 2.82e4


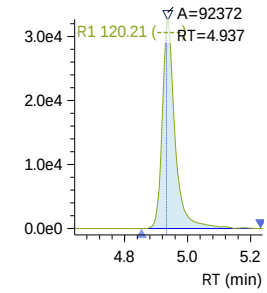
PFOS_1
Conc 0.9455
R#1 87.20 (87.63)
Q 499.00>80.00 (-) 2.07e4


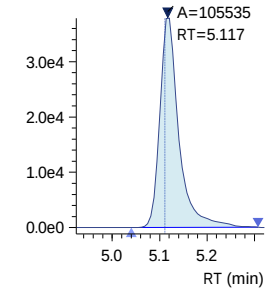
R1 499.00>99.00 (-) 1.98e4


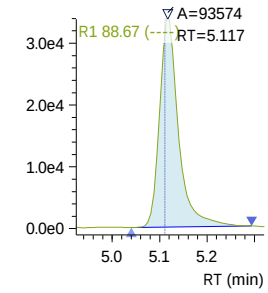
PFOS-13C
Conc 4.5551
Q 502.80>80.05 (-) 1.53e5


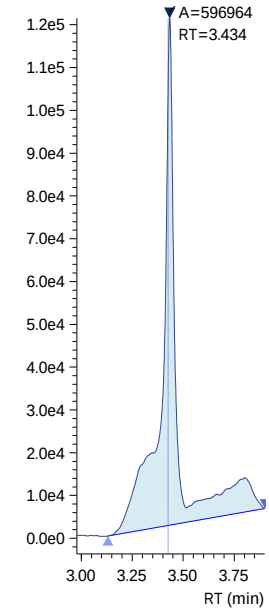
PFOS-13C_IS
Conc 5.0000
ISTD 502.80>80.05 (-) 1.53e5


PFNS
Conc 1.0843
R#1 120.21 (137.56)
Q 549.00>99.00 (-) 2.80e4


R1 549.00>79.95 (-) 3.27e4


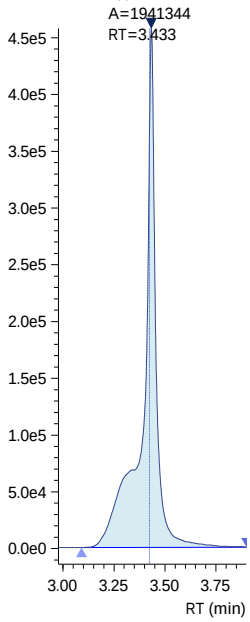
PFDS_1
Conc 1.0309
R#1 88.67 (101.78)
Q 599.00>79.90 (-) 3.78e4


R1 599.00>99.10 (-) 3.39e4


PFBA
Conc 1.1509
Q 213.00>169.10 (-) 1.22e5


210819_029 (continued)

PFBA-13C
Conc 4.5213
Q 216.90>172.15 (-) 4.58e5



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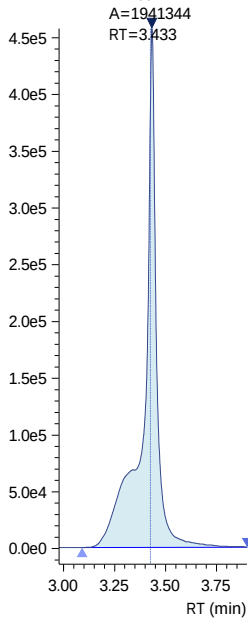
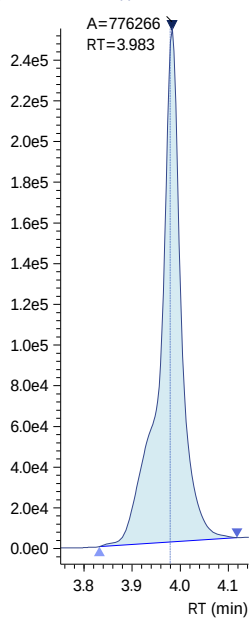
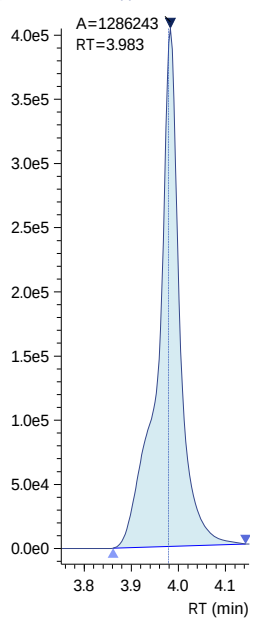
Conc 5.0000
ISTD 216.90>172.15 (-) 4.58e5



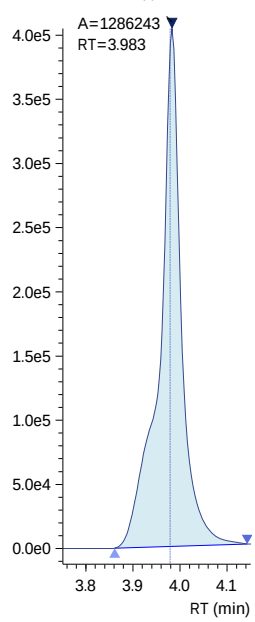
PFPeA
Conc 1.0143
Q 263.05>219.10 (-) 2.56e5



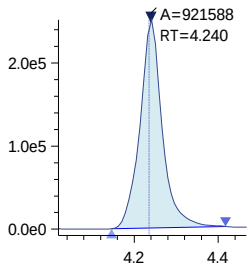
PFPeA-13C
Conc 4.5456
Q 267.90>223.00 (-) 4.05e5



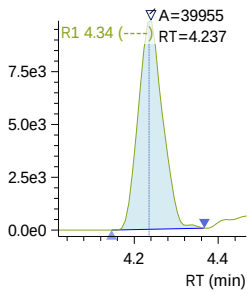
PFPeA-13C_IS
Conc 5.0000
ISTD 267.90>223.00 (-) 4.05e5



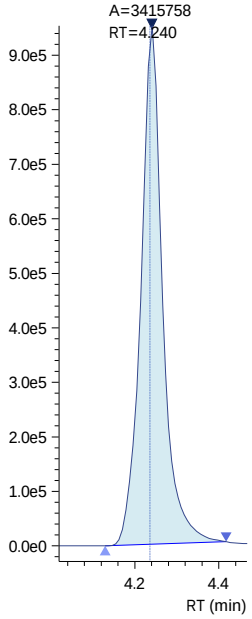
PFHxA
Conc 0.9930
R#1 4.34 (4.21)
Q 313.00>269.00 (-) 2.52e5



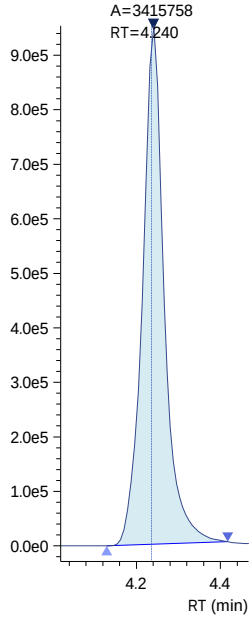
R1 313.00>119.10 (-) 9.90e3



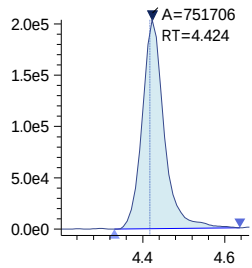
PFHxA-13C
Conc 4.3720
Q 314.90>270.10 (-) 9.54e5



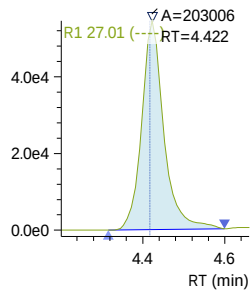
PFHxA-13C_IS
Conc 5.0000
ISTD 314.90>270.10 (-) 9.54e5



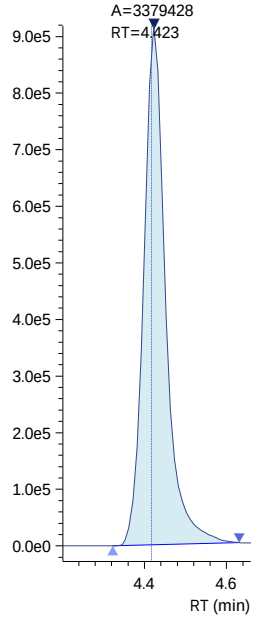
PFHpA
Conc 1.0068
R#1 27.01 (26.69)
Q 362.90>319.00 (-) 2.04e5



R1 362.90>169.00 (-) 5.46e4



PFHpA-13C
Conc 4.2723
Q 366.90>322.10 (-) 9.19e5



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PFHpA-13C_IS
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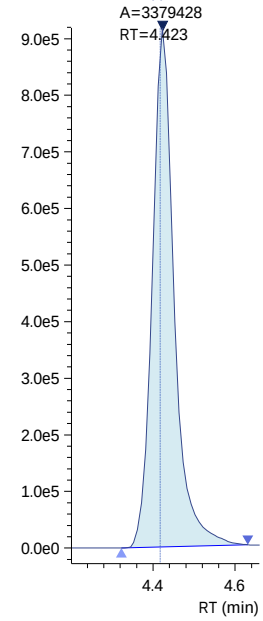
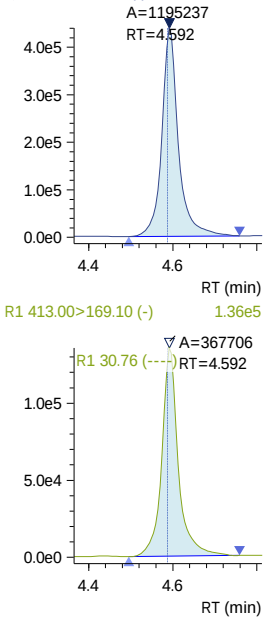
ISTD 366.90>322.10 (-) 9.19e5

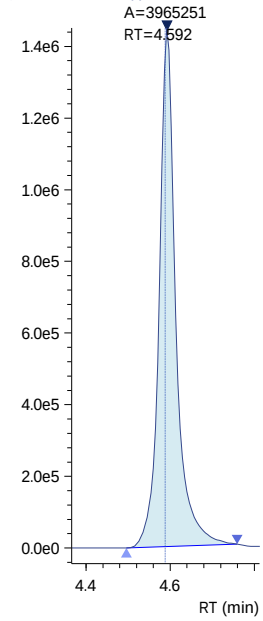


PFOA
Conc 1.0323
R#1 30.76 (31.31)
Q 413.00>369.00 (-) 4.41e5

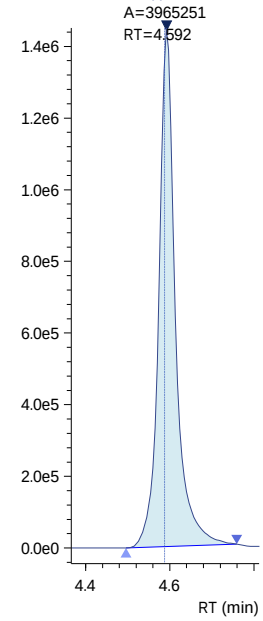


R1 413.00>169.10 (-) 1.36e5

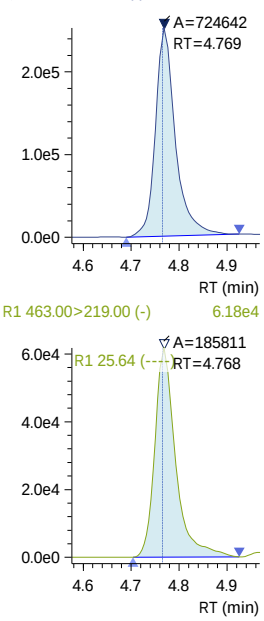
PFOA-13C
Conc 4.5029
Q 416.80>372.05 (-) 1.45e6



PFOA-13C_IS
Conc 5.0000
ISTD 416.80>372.05 (-) 1.45e6

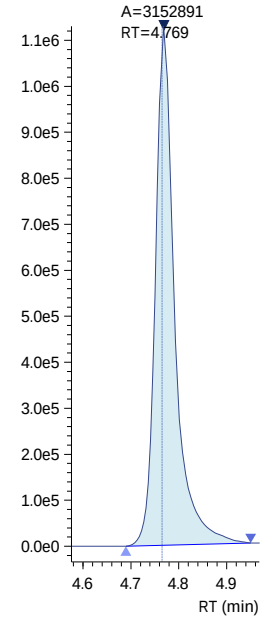


PFNA
Conc 0.9239
R#1 25.64 (20.54)
Q 463.00>418.90 (-) 2.53e5

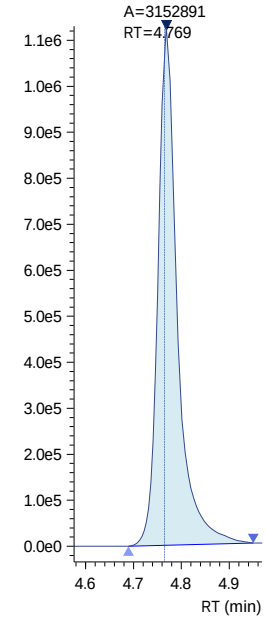


R1 463.00>219.00 (-) 6.18e4

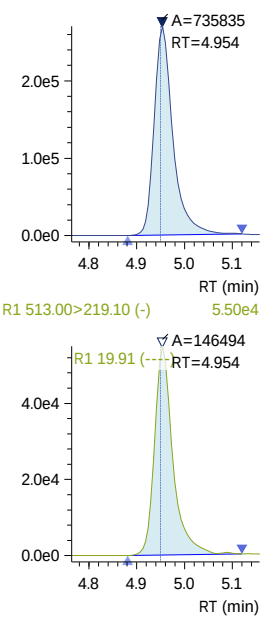
PFNA-13C
Conc 4.6937
Q 467.80>423.00 (-) 1.13e6



PFNA-13C_IS
Conc 5.0000
ISTD 467.80>423.00 (-) 1.13e6

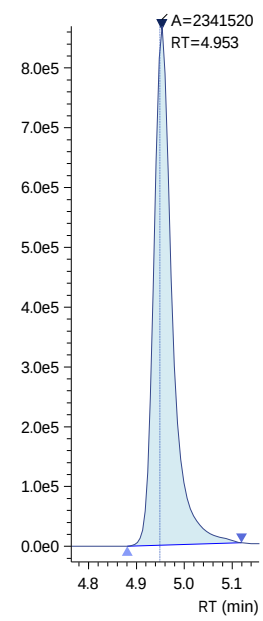


PFDA
Conc 1.0506
R#1 19.91 (20.01)
Q 513.00>468.80 (-) 2.71e5

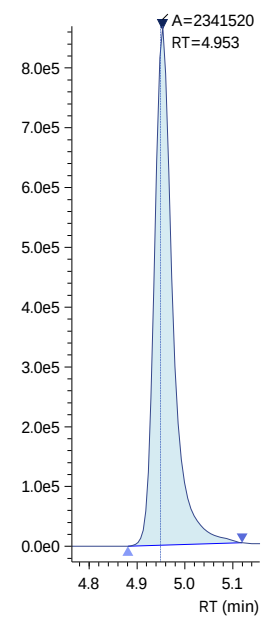


R1 513.00>219.10 (-) 5.50e4

PFDA-13C
Conc 4.7161
Q 514.80>469.95 (-) 8.70e5

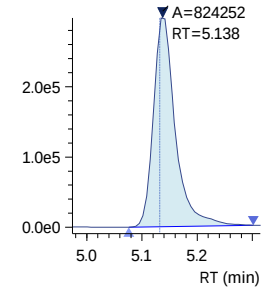


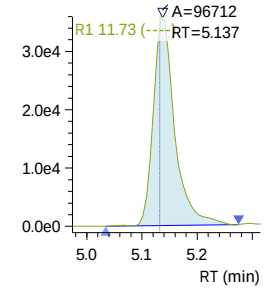
PFDA-13C_IS
Conc 5.0000
ISTD 514.80>469.95 (-) 8.70e5

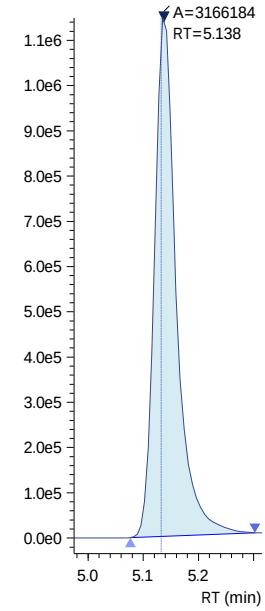


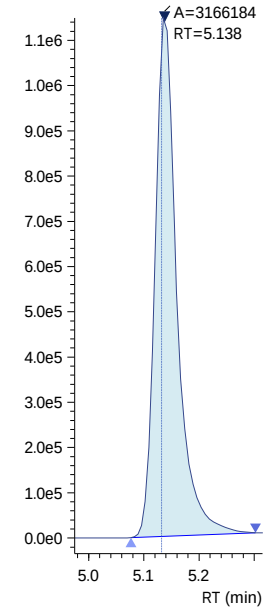
Insight Report
Before Manual Integration
Printed 8/20/2021 09:47:37

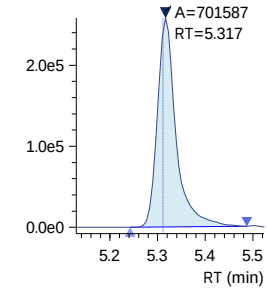
210819_029 (continued)

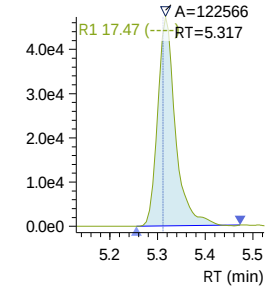
PFUnA
Conc 1.0898
R#1 11.73 (13.39)
Q 563.00>518.90 (-) 2.98e5


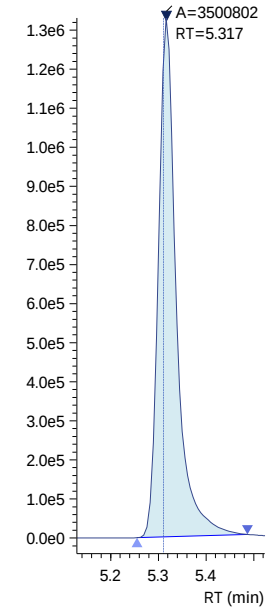
R1 563.00>219.00 (-) 3.59e4


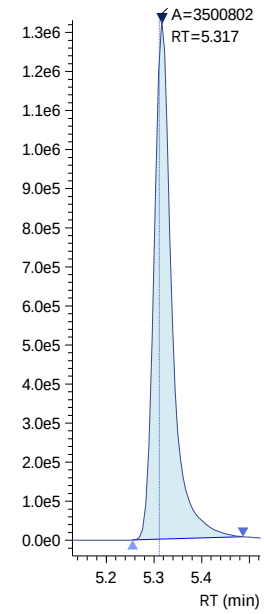
PFUnA-13C
Conc 4.7863
Q 564.80>519.95 (-) 1.15e6


PFUnA-13C_IS
Conc 5.0000
ISTD 564.80>519.95 (-) 1.15e6


PFDoA
Conc 1.0268
R#1 17.47 (16.84)
Q 613.05>569.00 (-) 2.58e5


R1 613.05>169.00 (-) 4.73e4


PFDoA-13C
Conc 4.8312
Q 614.80>569.95 (-) 1.33e6


PFDoA-13C_IS
Conc 5.0000
ISTD 614.80>569.95 (-) 1.33e6


PFTrDA
Conc 1.0032
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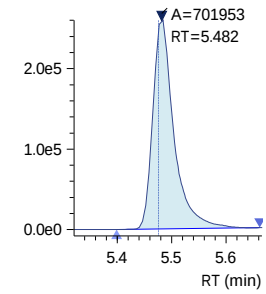
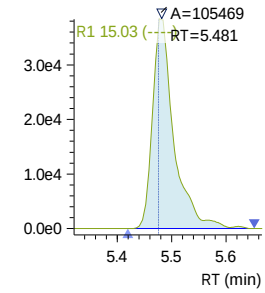
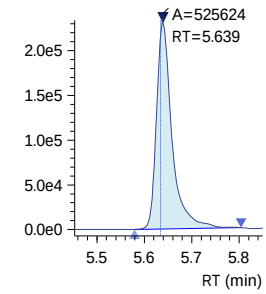
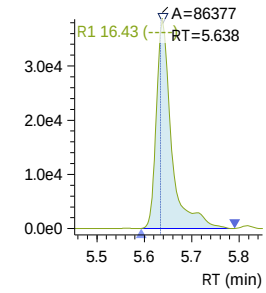
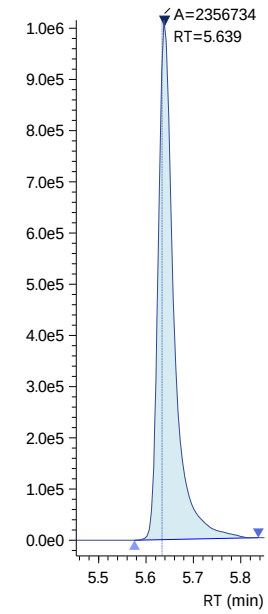
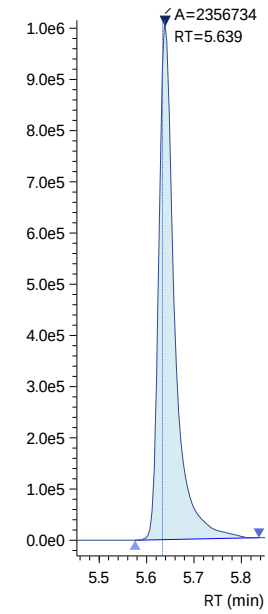
Q 663.00>618.90 (-) 2.60e5


R1 662.90>169.00 (-) 3.84e4


PFTeDA
Conc 0.9750
R#1 16.43 (16.56)
Q 713.00>669.00 (-) 2.34e5


R1 713.00>169.10 (-) 3.86e4


PFTeDA-13C
Conc 4.8059
Q 714.70>669.90 (-) 1.02e6


PFTeDA-13C_IS
Conc 5.0000
ISTD 714.70>669.90 (-) 1.02e6


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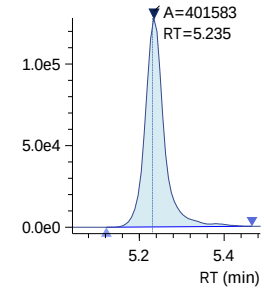
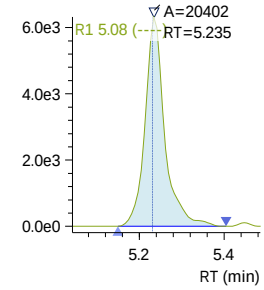
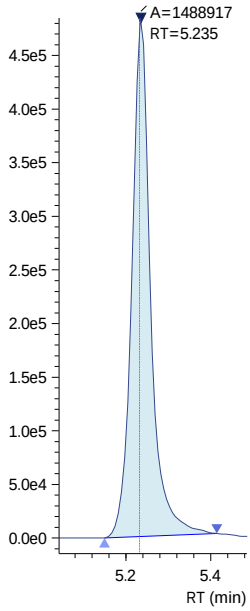
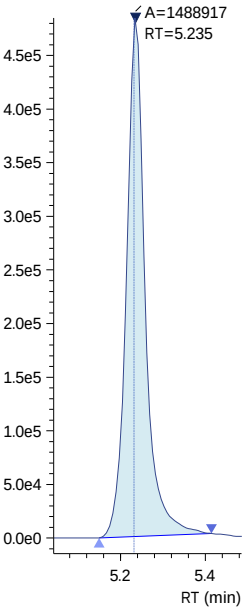
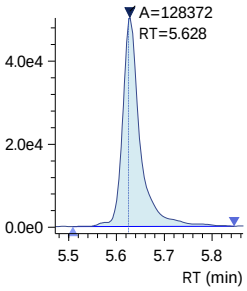
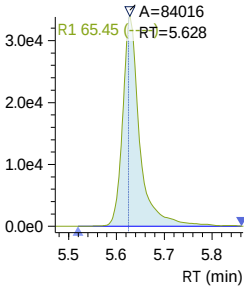
FOSA
Conc 1.0399
R#1 5.08 (4.59)
Q 498.20>78.00 (-) 1.28e5


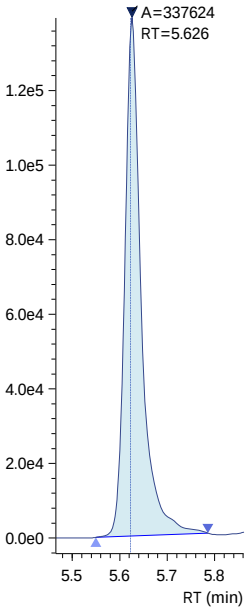
R1 498.20>64.10 (-) 6.32e3


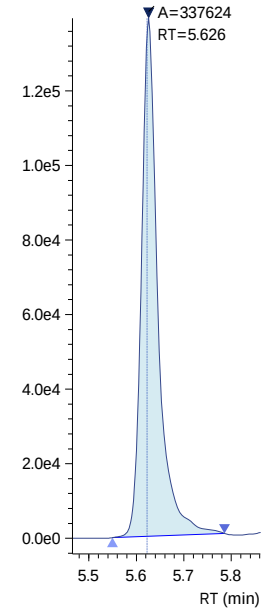
FOSA-13C
Conc 4.7678
Q 506.00>78.05 (-) 4.85e5


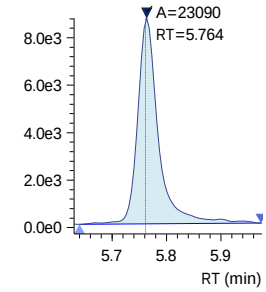
FOSA-13C_IS
Conc 5.0000
ISTD 506.00>78.05 (-) 4.85e5


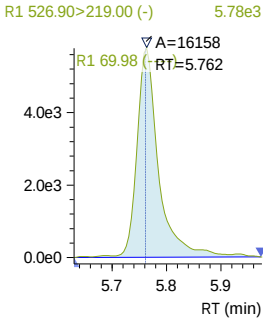
N-MeFOSA
Conc 0.9251
R#1 65.45 (68.73)
Q 512.00>169.10 (-) 5.04e4


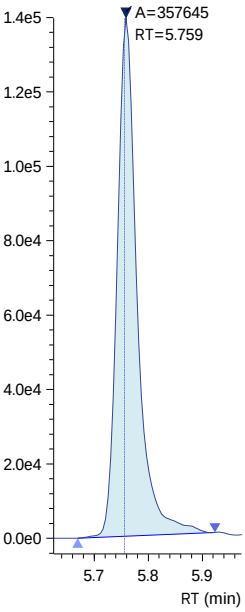
R1 512.00>219.00 (-) 3.38e4


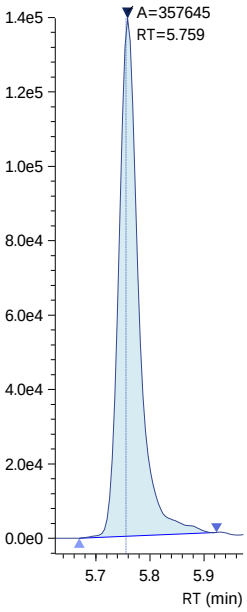
N-MeFOSA-d3
Conc 4.6497
Q 514.90>168.90 (-) 1.39e5


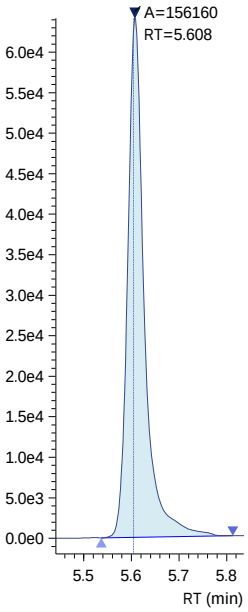
N-MeFOSA-d3_IS
Conc 5.0000
ISTD 514.90>168.90 (-) 1.39e5


N-EtFOSA
Conc 1.0205
R#1 69.98 (62.10)
Q 526.90>169.10 (-) 8.82e3


R1 526.90>219.00 (-) 5.78e3


N-EtFOSA-d9
Conc 4.3349
Q 530.90>169.15 (-) 1.40e5


N-EtFOSA-d9_IS
Conc 5.0000
ISTD 530.90>169.15 (-) 1.40e5


N-MeFOSE
Conc 1.0522
Q 616.00>59.00 (-) 6.42e4


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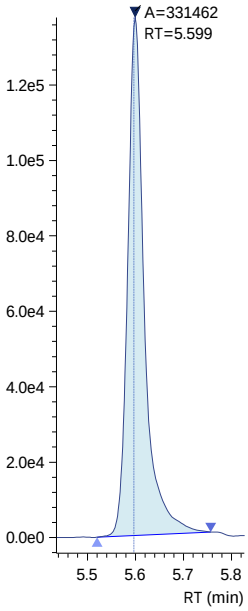
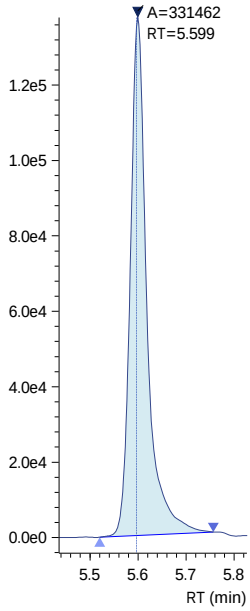
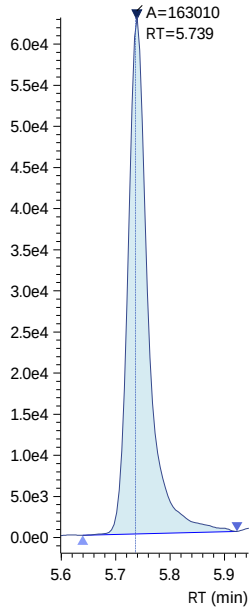
N-MeFOSE-d7
Conc 4.5648
Q 622.70>59.10 (-) 1.38e5



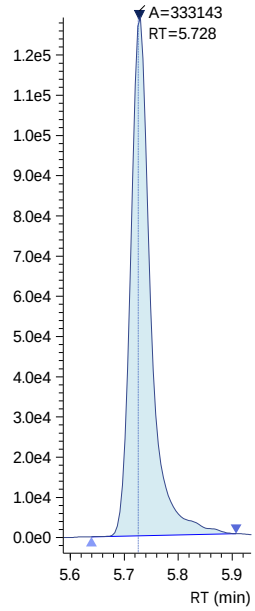
N-MeFOSE-d7_IS
Conc 5.0000
ISTD 622.70>59.10 (-) 1.38e5



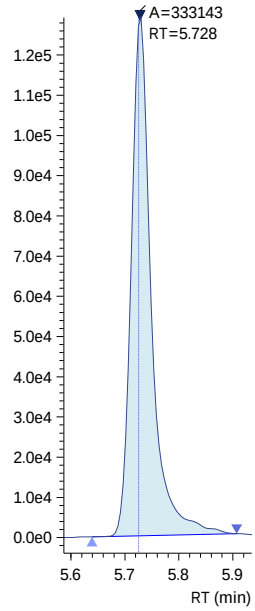
N-EtFOSE
Conc 1.0402
Q 630.00>58.90 (-) 6.32e4



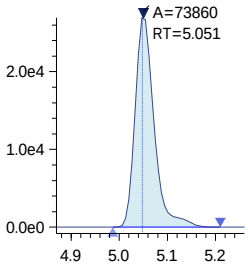
N-EtFOSE-d9
Conc 4.4314
Q 638.70>59.10 (-) 1.29e5



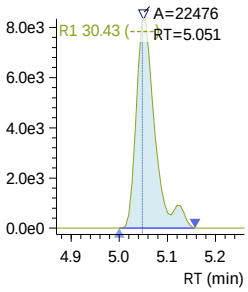
N-EtFOSE-d9_IS
Conc 5.0000
ISTD 638.70>59.10 (-) 1.29e5



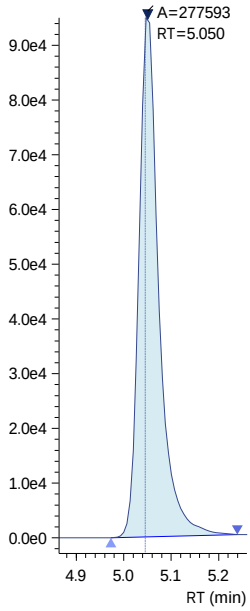
N-MeFOSAA
Conc 1.3752
R#1 30.43 (52.81)
Q 570.20>419.00 (-) 2.69e4



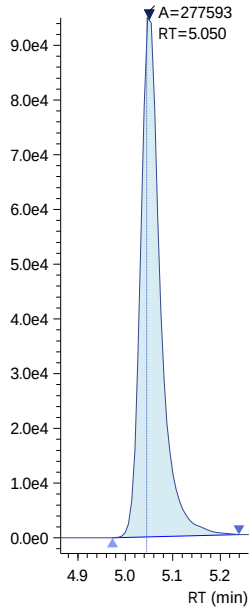
R1 570.20>512.00 (-) 8.34e3



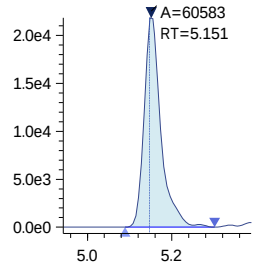
N-MeFOSAA-d3
Conc 4.6788
Q 572.80>419.05 (-) 9.50e4



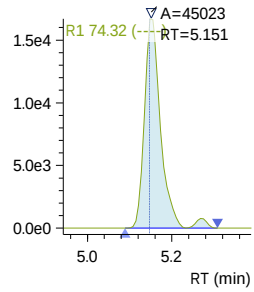
N-MeFOSAA-d3_IS
Conc 5.0000
ISTD 572.80>419.05 (-) 9.50e4



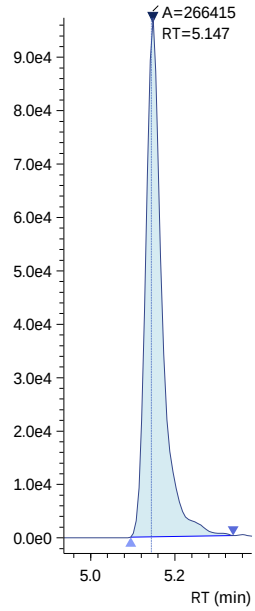
N-EtFOSAA
Conc 1.3066
R#1 74.32 (86.68)
Q 584.20>418.95 (-) 2.18e4



R1 584.20>526.10 (-) 1.67e4

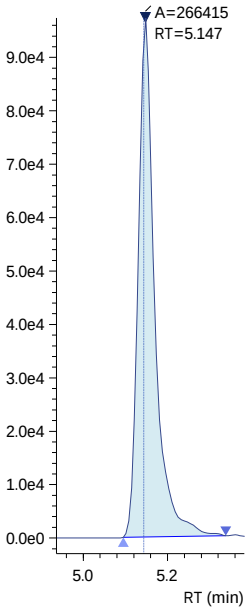


N-EtFOSAA-d5
Conc 4.8034
Q 588.80>419.00 (-) 9.74e4

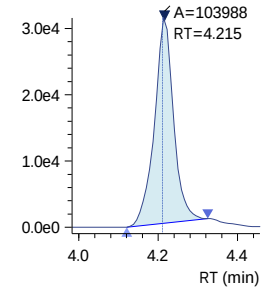


210819_029 (continued)

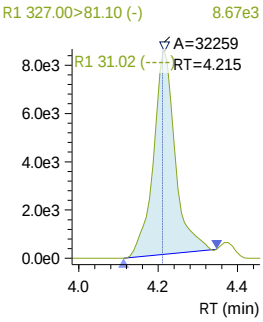
N-EtFOSAA-d5_IS
Conc 5.0000
ISTD 588.80>419.00 (-) 9.74e4



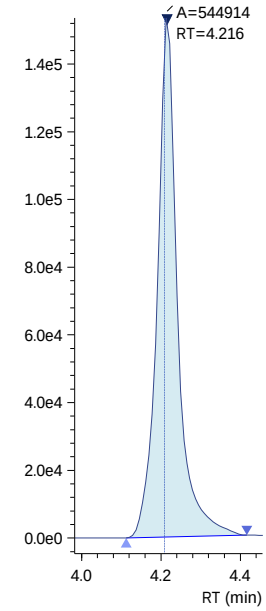
4_2-FTS_1
Conc 0.9525
R#1 31.02 (33.17)
Q 327.00>307.05 (-) 3.16e4



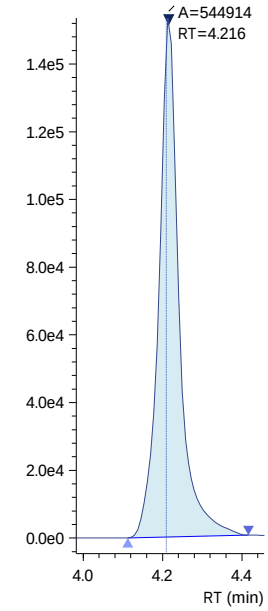
R1 327.00>81.10 (-) 8.67e3



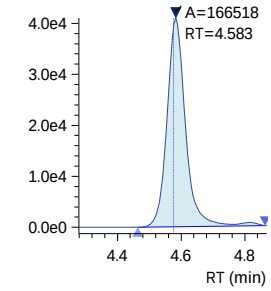
4_2-FTS-13C
Conc 4.5105
Q 328.80>309.05 (-) 1.54e5



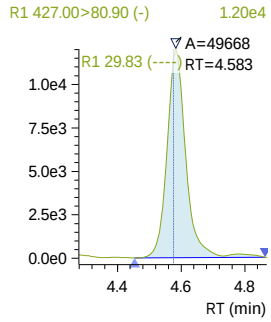
4_2-FTS-13C_IS
Conc 5.0000
ISTD 328.80>309.05 (-) 1.54e5



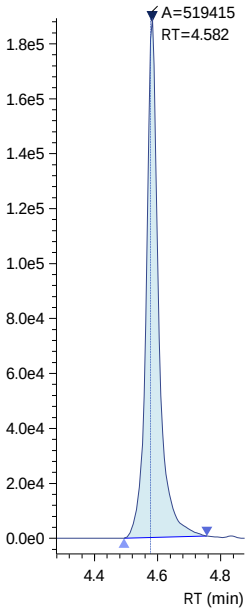
6_2-FTS_1
Conc 1.1337
R#1 29.83 (31.24)
Q 427.00>407.00 (-) 4.11e4



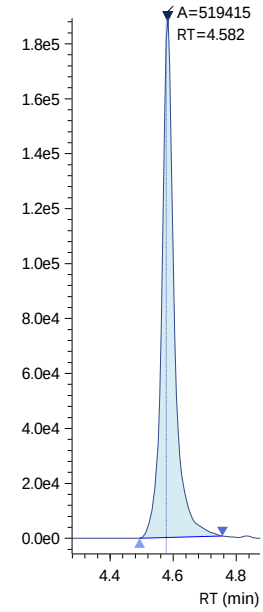
R1 427.00>80.90 (-) 1.20e4



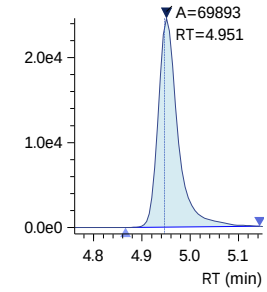
6_2-FTS-13C
Conc 4.5511
Q 428.90>409.00 (-) 1.89e5



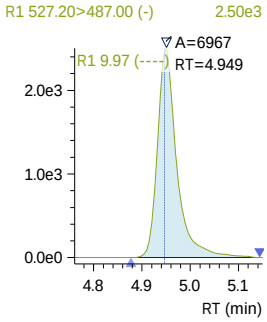
6_2-FTS-13C_IS
Conc 5.0000
ISTD 428.90>409.00 (-) 1.89e5



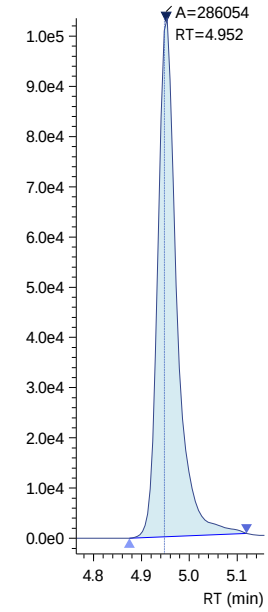
8_2-FTS_1
Conc 1.0505
R#1 9.97 (9.11)
Q 527.10>506.90 (-) 2.46e4



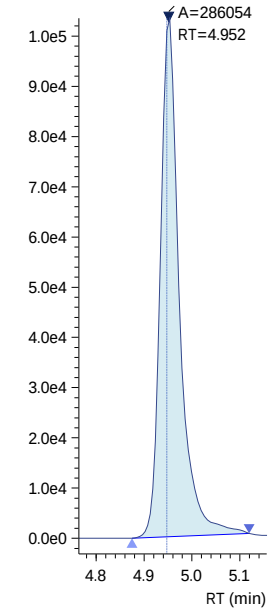
R1 527.20>487.00 (-) 2.50e3



8_2-FTS-13C
Conc 4.7090
Q 528.80>509.00 (-) 1.04e5

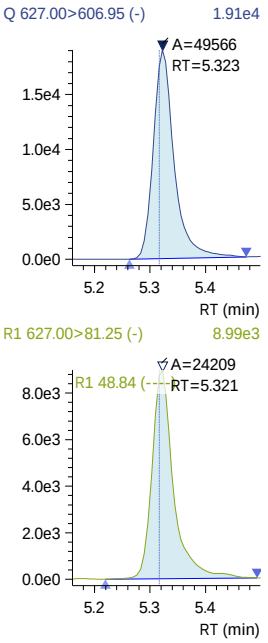


8_2-FTS-13C_IS
Conc 5.0000
ISTD 528.80>509.00 (-) 1.04e5

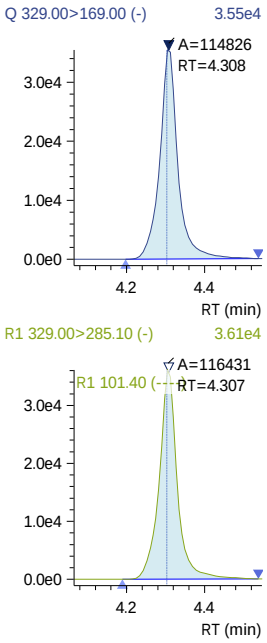


210819_029 (continued)

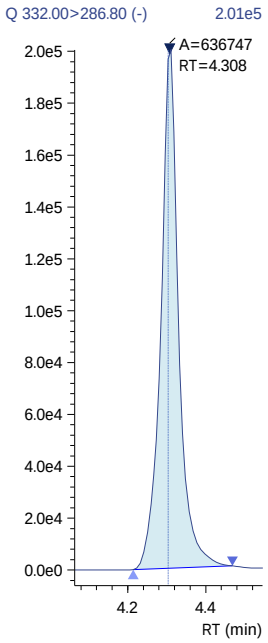
10_2-FtS_1
Conc 1.0700
R#1 48.84 (50.91)



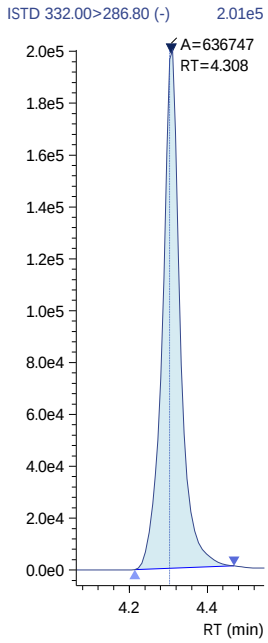
HPFO_DA
Conc 0.9738
R#1 101.40 (109.48)



HFPO_DA-13C
Conc 4.6876



HFPO_DA-13C_IS
Conc 5.0000



Insight Report
Retention Time/Signal:Noise Ratio Confirmation
Printed 8/20/2021 11:18:22

210819_030

Sample ID: EtFOSAA + MeFOSAA ICV @ 1ppb
Date Acquired: 8/19/2021 8:23:51 PM
Acquired by: System Administrator
Data File: 210819_030
Vial: 10 | Inj. Volume: 15.0000uL | Tray: 0

Name	m/z	Ref 1 m/z	Found RT	RT Diff	ISTD RT Diff	S/N	Ref 1 S/N	Flag ID
13C7-PFUnDA_IS	570.00>525.00	----	5.131	-0.001	----	127645	----	
PFBS_1	299.00>80.00	298.80>99.00	----	----	----	----	----	
PFBS-13C	301.80>80.00	----	4.030	-0.003	-1.101	280580	----	
PFBS-13C_IS	301.80>80.00	----	4.030	-0.003	----	280580	----	
PFPeS	349.00>99.00	349.00>79.95	----	----	----	----	----	
PFHxS_1	399.00>80.00	399.00>99.00	----	----	----	----	----	
PFHxS-18O	402.70>84.05	----	4.416	-0.002	-0.715	(INF)	----	
PFHxS-18O_IS	402.70>84.05	----	4.416	-0.002	----	(INF)	----	
PFHpS_1	449.00>80.15	449.00>99.20	----	----	----	----	----	
PFOS_1	499.00>80.00	499.00>99.00	----	----	----	----	----	
PFOS-13C	502.80>80.05	----	4.750	-0.002	-0.381	628533	----	
PFOS-13C_IS	502.80>80.05	----	4.750	-0.002	----	628533	----	
PFNS	549.00>99.00	549.00>79.95	----	----	----	----	----	
PFDS_1	599.00>79.90	599.00>99.10	----	----	----	----	----	
PFBA	213.00>169.10	----	----	----	----	----	----	
PFBA-13C	216.90>172.15	----	3.422	-0.003	-1.709	6036	----	
PFBA-13C_IS	216.90>172.15	----	3.422	-0.003	----	6036	----	
PFPeA	263.05>219.10	----	----	----	----	----	----	
PFPeA-13C	267.90>223.00	----	3.976	-0.003	-1.155	4896	----	
PFPeA-13C_IS	267.90>223.00	----	3.976	-0.003	----	4896	----	
PFHxA	313.00>269.00	313.00>119.10	----	----	----	----	----	
PFHxA-13C	314.90>270.10	----	4.234	-0.002	-0.897	31746	----	
PFHxA-13C_IS	314.90>270.10	----	4.234	-0.002	----	31746	----	
PFHpA	362.90>319.00	362.90>169.00	----	----	----	----	----	
PFHpA-13C	366.90>322.10	----	4.415	-0.002	-0.716	15377	----	
PFHpA-13C_IS	366.90>322.10	----	4.415	-0.002	----	15377	----	
PFOA	413.00>369.00	413.00>169.10	----	----	----	----	----	
PFOA-13C	416.80>372.05	----	4.585	-0.003	-0.546	(INF)	----	
PFOA-13C_IS	416.80>372.05	----	4.585	-0.003	----	(INF)	----	
PFNA	463.00>418.90	463.00>219.00	----	----	----	----	----	
PFNA-13C	467.80>423.00	----	4.762	-0.003	-0.369	74501	----	
PFNA-13C_IS	467.80>423.00	----	4.762	-0.003	----	74501	----	
PFDA	513.00>468.80	513.00>219.10	----	----	----	----	----	
PFDA-13C	514.80>469.95	----	4.947	-0.002	-0.184	98218	----	
PFDA-13C_IS	514.80>469.95	----	4.947	-0.002	----	98218	----	
PFUnA	563.00>518.90	563.00>219.00	----	----	----	----	----	
PFUnA-13C	564.80>519.95	----	5.131	-0.001	0.000	46269	----	
PFUnA-13C_IS	564.80>519.95	----	5.131	-0.001	----	46269	----	
PFDoA	613.05>569.00	613.05>169.00	----	----	----	----	----	
PFDoA-13C	614.80>569.95	----	5.310	-0.001	0.179	502702	----	
PFDoA-13C_IS	614.80>569.95	----	5.310	-0.001	----	502702	----	
PFTrDA	663.00>618.90	662.90>169.00	----	----	----	----	----	
PFTeDA	713.00>669.00	713.00>169.10	----	----	----	----	----	
PFTeDA-13C	714.70>669.90	----	5.633	-0.001	0.502	5183	----	
PFTeDA-13C_IS	714.70>669.90	----	5.633	-0.001	----	4797	----	
FOSA	498.20>78.00	498.20>64.10	----	----	----	----	----	
FOSA-13C	506.00>78.05	----	5.230	-0.001	0.099	2639	----	
FOSA-13C_IS	506.00>78.05	----	5.230	-0.001	----	2639	----	
N-MeFOSA	512.00>169.10	512.00>219.00	----	----	----	----	----	
N-MeFOSA-d3	514.90>168.90	----	5.621	-0.001	0.490	342	----	
N-MeFOSA-d3_IS	514.90>168.90	----	5.621	-0.001	----	342	----	

J:\LCMS06\Data\210819_Curve\210819_Curve.DAMLP .

SN - Software-calculated S/N ratio outside criteria due to non-target peaks or drift in noise calculation window. Analyst review of noise levels (excluding non-target peaks) in chromatogram indicates S/N ratio meets criteria.

210819_030 (continued)

(Table continued from previous page)

Name	m/z	Ref 1 m/z	Found RT	RT Diff	ISTD RT Diff	S/N	Ref 1 S/N	Flag ID
N-EtFOSA	526.90>169.10	526.90>219.00	----	----	----	----	----	
N-EtFOSA-d9	530.90>169.15	----	5.753	-0.003	0.622	(INF)	----	
N-EtFOSA-d9_IS	530.90>169.15	----	5.753	-0.003	----	(INF)	----	
N-MeFOSE	616.00>59.00	----	----	----	----	----	----	
N-MeFOSE-d7	622.70>59.10	----	5.595	-0.002	0.464	1897	----	
N-MeFOSE-d7_IS	622.70>59.10	----	5.595	-0.002	----	1897	----	
N-EtFOSE	630.00>58.90	----	----	----	----	----	----	
N-EtFOSE-d9	638.70>59.10	----	5.724	-0.002	0.593	(INF)	----	
N-EtFOSE-d9_IS	638.70>59.10	----	5.724	-0.002	----	(INF)	----	
N-MeFOSAA	570.20>419.00	570.20>512.00	5.047	-0.001	0.003	(INF)	3313	IRr
N-MeFOSAA-d3	572.80>419.05	----	5.044	-0.001	-0.087	(INF)	----	
N-MeFOSAA-d3_IS	572.80>419.05	----	5.044	-0.001	----	(INF)	----	
N-EtFOSAA	584.20>418.95	584.20>526.10	5.145	-0.003	0.003	(INF)	(INF)	
N-EtFOSAA-d5	588.80>419.00	----	5.142	-0.002	0.011	3394	----	
N-EtFOSAA-d5_IS	588.80>419.00	----	5.142	-0.002	----	3394	----	
4_2-FTS_1	327.00>307.05	327.00>81.10	----	----	----	----	----	
4_2-FTS-13C	328.80>309.05	----	4.208	-0.002	-0.923	(INF)	----	
4_2-FTS-13C_IS	328.80>309.05	----	4.208	-0.002	----	(INF)	----	
6_2-FTS_1	427.00>407.00	427.00>80.90	----	----	----	----	----	
6_2-FTS-13C	428.90>409.00	----	4.576	-0.002	-0.555	58538	----	
6_2-FTS-13C_IS	428.90>409.00	----	4.576	-0.002	----	103778	----	
8_2-FTS_1	527.10>506.90	527.20>487.00	----	----	----	----	----	
8_2-FTS-13C	528.80>509.00	----	4.945	-0.002	-0.186	48003	----	
8_2-FTS-13C_IS	528.80>509.00	----	4.945	-0.002	----	48003	----	
10_2-FtS_1	627.00>606.95	627.00>81.25	----	----	----	----	----	
HPFO_DA	329.00>169.00	329.00>285.10	----	----	----	----	----	
HFPO_DA-13C	332.00>286.80	----	4.300	-0.004	-0.831	8563	----	
HFPO_DA-13C_IS	332.00>286.80	----	4.300	-0.004	----	8563	----	

Flag ID key: IRr: Ion Ratio (Relative)

SN - Software-calculated S/N ratio outside criteria due to non-target peaks or drift in noise calculation window. Analyst review of noise levels (excluding non-target peaks) in chromatogram indicates S/N ratio meets criteria.

Insight Report
Ion Ratio Confirmation
Printed 8/20/2021 11:19:20

210819_030

Sample ID: EtFOSAA + MeFOSAA ICV @ 1ppb
Date Acquired: 8/19/2021 8:23:51 PM
Acquired by: System Administrator
Data File: 210819_030
Vial: 10 | Inj. Volume: 15.0000uL | Tray: 0

Name	m/z	Ref 1 m/z	Area	Ref 1 Measured	Ref 1 Actual Ratio	Ref 1 Set Ratio	Comment 1	Flag ID
13C7-PFUnDA_IS	570.00>525.00	----	5379142	----	----	----		
PFBS_1	299.00>80.00	298.80>99.00	----	0	0.00	47.76	23.88-71.64	
PFBS-13C	301.80>80.00	----	439568	----	----	----	0-0	
PFBS-13C_IS	301.80>80.00	----	439568	----	----	----	0-0	
PFPeS	349.00>99.00	349.00>79.95	----	0	0.00	136.08	68.04 -204.13	
PFHxS_1	399.00>80.00	399.00>99.00	----	0	0.00	71.26	35.63 -106.89	
PFHxS-18O	402.70>84.05	----	330396	----	----	----	0-0	
PFHxS-18O_IS	402.70>84.05	----	330396	----	----	----	0-0	
PFHpS_1	449.00>80.15	449.00>99.20	----	0	0.00	53.84	26.92-80.76	
PFOS_1	499.00>80.00	499.00>99.00	----	0	0.00	86.72	43.36 -130.08	
PFOS-13C	502.80>80.05	----	380993	----	----	----	0-0	
PFOS-13C_IS	502.80>80.05	----	380993	----	----	----	0-0	
PFNS	549.00>99.00	549.00>79.95	----	0	0.00	129.18	64.59 -193.78	
PFDS_1	599.00>79.90	599.00>99.10	----	0	0.00	90.77	45.38 -136.15	
PFBA	213.00>169.10	----	----	----	----	----		
PFBA-13C	216.90>172.15	----	1717124	----	----	----		
PFBA-13C_IS	216.90>172.15	----	1717124	----	----	----		
PFPeA	263.05>219.10	----	----	----	----	----		
PFPeA-13C	267.90>223.00	----	1164732	----	----	----	0-0	
PFPeA-13C_IS	267.90>223.00	----	1164732	----	----	----	0-0	
PFHxA	313.00>269.00	313.00>119.10	----	0	0.00	4.17	2.08-6.25	
PFHxA-13C	314.90>270.10	----	3181244	----	----	----	0-0	
PFHxA-13C_IS	314.90>270.10	----	3181244	----	----	----	0-0	
PFHpA	362.90>319.00	362.90>169.00	----	0	0.00	26.04	13.02-39.07	
PFHpA-13C	366.90>322.10	----	3488035	----	----	----	0-0	
PFHpA-13C_IS	366.90>322.10	----	3488035	----	----	----	0-0	
PFOA	413.00>369.00	413.00>169.10	----	0	0.00	30.35	15.18-45.53	
PFOA-13C	416.80>372.05	----	3708660	----	----	----	0-0	
PFOA-13C_IS	416.80>372.05	----	3708660	----	----	----	0-0	
PFNA	463.00>418.90	463.00>219.00	----	0	0.00	22.35	11.18-33.53	
PFNA-13C	467.80>423.00	----	2815273	----	----	----	0-0	
PFNA-13C_IS	467.80>423.00	----	2815273	----	----	----	0-0	
PFDA	513.00>468.80	513.00>219.10	----	0	0.00	18.73	9.36-28.09	
PFDA-13C	514.80>469.95	----	2149528	----	----	----	0-0	
PFDA-13C_IS	514.80>469.95	----	2149528	----	----	----	0-0	
PFUnA	563.00>518.90	563.00>219.00	----	0	0.00	11.60	5.8-17.4	
PFUnA-13C	564.80>519.95	----	2946418	----	----	----	0-0	
PFUnA-13C_IS	564.80>519.95	----	2946418	----	----	----	0-0	
PFDoA	613.05>569.00	613.05>169.00	----	0	0.00	15.11	7.55-22.66	
PFDoA-13C	614.80>569.95	----	3057950	----	----	----	0-0	
PFDoA-13C_IS	614.80>569.95	----	3057950	----	----	----	0-0	
PFTrDA	663.00>618.90	662.90>169.00	----	0	0.00	14.19	7.09-21.28	
PFTeDA	713.00>669.00	713.00>169.10	----	0	0.00	14.98	7.49-22.46	
PFTeDA-13C	714.70>669.90	----	2119667	----	----	----	0-0	
PFTeDA-13C_IS	714.70>669.90	----	2119667	----	----	----	0-0	
FOSA	498.20>78.00	498.20>64.10	----	0	0.00	4.89	2.44-7.33	

J:\LCMS06\Data\210819_Curve\210819_Curve.DAMLP .

Comment 1 field specifies acceptance range for Ref 1 ratio.
IRr - Ion ratio outside criteria. Exceedances for results above the MDL to be "K" flagged in the analytical report.

Insight Report
Ion Ratio Confirmation
Printed 8/20/2021 11:19:20

210819_030 (continued)

(Table continued from previous page)

Name	m/z	Ref 1 m/z	Area	Ref 1 Measured	Ref 1 Actual Ratio	Ref 1 Set Ratio	Comment 1	Flag ID
FOSA-13C	506.00>78.05	----	1327471	----	----	----	0-0	
FOSA-13C_IS	506.00>78.05	----	1327471	----	----	----	0-0	
N-MeFOSA	512.00>169.10	512.00>219.00	----	0	0.00	62.72	31.36-94.08	
N-MeFOSA-d3	514.90>168.90	----	293920	----	----	----	0-0	
N-MeFOSA-d3_IS	514.90>168.90	----	293920	----	----	----	0-0	
N-EtFOSA	526.90>169.10	526.90>219.00	----	0	0.00	63.35	31.68-95.03	
N-EtFOSA-d9	530.90>169.15	----	330114	----	----	----	0-0	
N-EtFOSA-d9_IS	530.90>169.15	----	330114	----	----	----	0-0	
N-MeFOSE	616.00>59.00	----	----	----	----	----		
N-MeFOSE-d7	622.70>59.10	----	307733	----	----	----		
N-MeFOSE-d7_IS	622.70>59.10	----	307733	----	----	----		
N-EtFOSE	630.00>58.90	----	----	----	----	----		
N-EtFOSE-d9	638.70>59.10	----	320804	----	----	----	0-0	
N-EtFOSE-d9_IS	638.70>59.10	----	320804	----	----	----	0-0	
N-MeFOSAA	570.20>419.00	570.20>512.00	40358	21463	53.18	35.26	17.63-52.88	IRr
N-MeFOSAA-d3	572.80>419.05	----	260481	----	----	----	0-0	
N-MeFOSAA-d3_IS	572.80>419.05	----	260481	----	----	----	0-0	
N-EtFOSAA	584.20>418.95	584.20>526.10	41334	33330	80.64	77.25	38.62 -115.87	
N-EtFOSAA-d5	588.80>419.00	----	246263	----	----	----	0-0	
N-EtFOSAA-d5_IS	588.80>419.00	----	246263	----	----	----	0-0	
4_2-FTS_1	327.00>307.05	327.00>81.10	----	0	0.00	39.85	19.92-59.77	
4_2-FTS-13C	328.80>309.05	----	509934	----	----	----	0-0	
4_2-FTS-13C_IS	328.80>309.05	----	509934	----	----	----	0-0	
6_2-FTS_1	427.00>407.00	427.00>80.90	----	0	0.00	29.95	14.97-44.92	
6_2-FTS-13C	428.90>409.00	----	500282	----	----	----	0-0	
6_2-FTS-13C_IS	428.90>409.00	----	500282	----	----	----	0-0	
8_2-FTS_1	527.10>506.90	527.20>487.00	----	0	0.00	9.42	4.71-14.13	
8_2-FTS-13C	528.80>509.00	----	283320	----	----	----	0-0	
8_2-FTS-13C_IS	528.80>509.00	----	283320	----	----	----	0-0	
10_2-FtS_1	627.00>606.95	627.00>81.25	----	0	0.00	49.86	24.93-74.78	
HPFO_DA	329.00>169.00	329.00>285.10	----	0	0.00	101.52	50.76 -152.28	
HFPO_DA-13C	332.00>286.80	----	553945	----	----	----		
HFPO_DA-13C_IS	332.00>286.80	----	553945	----	----	----		

Flag ID key: IRr: Ion Ratio (Relative)

Comment 1 field specifies acceptance range for Ref 1 ratio.
IRr - Ion ratio outside criteria. Exceedances for results above the MDL to be "K" flagged in the analytical report.

Insight Report
Quantitation/Integration
Printed 8/20/2021 11:13:44

210819_030

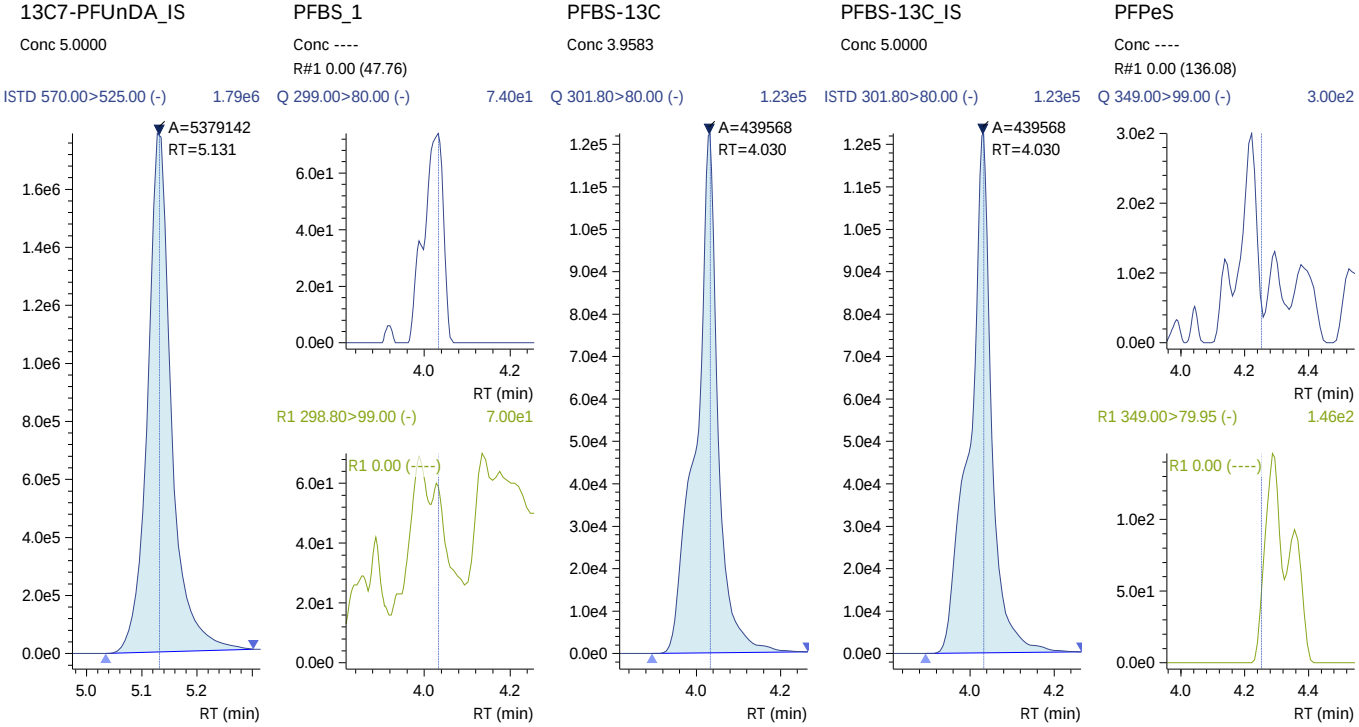
Sample ID: EtFOSAA + MeFOSAA ICV @ 1ppb
Date Acquired: 8/19/2021 8:23:51 PM
Acquired by: System Administrator
Data File: 210819_030
Vial: 10 | Inj. Volume: 15.0000uL | Tray: 0

Name	Mode ID	Found RT	Area	ISTD Area	ISTD Name	Std. Conc.	Conc.	Unit
13C7-PFUnDA_IS	Auto	5.131	5379142	5379142	----	5.0000	5.0000	ng/mL
PFBS_1	ND(W/B)	----	----	439568	PFBS-13C_IS	0.8874	----	ng/mL
PFBS-13C	Auto	4.030	439568	5379142	13C7-PFUnDA_IS	5.0000	3.9583	ng/mL
PFBS-13C_IS	Auto	4.030	439568	439568	----	5.0000	5.0000	ng/mL
PFPeS	ND(W/B)	----	----	439568	PFBS-13C_IS	0.9409	----	ng/mL
PFHxS_1	ND(W/B)	----	----	330396	PFHxS-18O_IS	0.9131	----	ng/mL
PFHxS-18O	Auto	4.416	330396	5379142	13C7-PFUnDA_IS	5.0000	4.3634	ng/mL
PFHxS-18O_IS	Auto	4.416	330396	330396	----	5.0000	5.0000	ng/mL
PFHpS_1	ND(W/B)	----	----	330396	PFHxS-18O_IS	0.9534	----	ng/mL
PFOS_1	ND(W/B)	----	----	380993	PFOS-13C_IS	0.9292	----	ng/mL
PFOS-13C	Auto	4.750	380993	5379142	13C7-PFUnDA_IS	5.0000	4.0485	ng/mL
PFOS-13C_IS	Auto	4.750	380993	380993	----	5.0000	5.0000	ng/mL
PFNS	ND(W/B)	----	----	380993	PFOS-13C_IS	0.9616	----	ng/mL
PFDS_1	ND(W/B)	----	----	380993	PFOS-13C_IS	0.9647	----	ng/mL
PFBA	ND(W/B)	----	----	1717124	PFBA-13C_IS	1.0000	----	ng/mL
PFBA-13C	Auto	3.422	1717124	5379142	13C7-PFUnDA_IS	5.0000	3.9084	ng/mL
PFBA-13C_IS	Auto	3.422	1717124	1717124	----	5.0000	5.0000	ng/mL
PFPeA	ND(W/B)	----	----	1164732	PFPeA-13C_IS	1.0000	----	ng/mL
PFPeA-13C	Auto	3.976	1164732	5379142	13C7-PFUnDA_IS	5.0000	4.0228	ng/mL
PFPeA-13C_IS	Auto	3.976	1164732	1164732	----	5.0000	5.0000	ng/mL
PFHxA	ND(W/B)	----	----	3181244	PFHxA-13C_IS	1.0000	----	ng/mL
PFHxA-13C	Auto	4.234	3181244	5379142	13C7-PFUnDA_IS	5.0000	3.9906	ng/mL
PFHxA-13C_IS	Auto	4.234	3181244	3181244	----	5.0000	5.0000	ng/mL
PFHpA	ND(W/B)	----	----	3488035	PFHpA-13C_IS	1.0000	----	ng/mL
PFHpA-13C	Auto	4.415	3488035	5379142	13C7-PFUnDA_IS	5.0000	4.3096	ng/mL
PFHpA-13C_IS	Auto	4.415	3488035	3488035	----	5.0000	5.0000	ng/mL
PFOA	ND(W/B)	----	----	3708660	PFOA-13C_IS	1.0000	----	ng/mL
PFOA-13C	Auto	4.585	3708660	5379142	13C7-PFUnDA_IS	5.0000	4.1160	ng/mL
PFOA-13C_IS	Auto	4.585	3708660	3708660	----	5.0000	5.0000	ng/mL
PFNA	ND(W/B)	----	----	2815273	PFNA-13C_IS	1.0000	----	ng/mL
PFNA-13C	Auto	4.762	2815273	5379142	13C7-PFUnDA_IS	5.0000	4.0960	ng/mL
PFNA-13C_IS	Auto	4.762	2815273	2815273	----	5.0000	5.0000	ng/mL
PFDA	ND(W/B)	----	----	2149528	PFDA-13C_IS	1.0000	----	ng/mL
PFDA-13C	Auto	4.947	2149528	5379142	13C7-PFUnDA_IS	5.0000	4.2312	ng/mL
PFDA-13C_IS	Auto	4.947	2149528	2149528	----	5.0000	5.0000	ng/mL
PFUnA	ND(W/B)	----	----	2946418	PFUnA-13C_IS	1.0000	----	ng/mL
PFUnA-13C	Auto	5.131	2946418	5379142	13C7-PFUnDA_IS	5.0000	4.3530	ng/mL
PFUnA-13C_IS	Auto	5.131	2946418	2946418	----	5.0000	5.0000	ng/mL
PFDoA	ND(W/B)	----	----	3057950	PFDoA-13C_IS	1.0000	----	ng/mL
PFDoA-13C	Auto	5.310	3057950	5379142	13C7-PFUnDA_IS	5.0000	4.1243	ng/mL
PFDoA-13C_IS	Auto	5.310	3057950	3057950	----	5.0000	5.0000	ng/mL
PFTrDA	ND(W/B)	----	----	2119667	PFTeDA-13C_IS	1.0000	----	ng/mL
PFTeDA	ND(W/B)	----	----	2119667	PFTeDA-13C_IS	1.0000	----	ng/mL
PFTeDA-13C	Auto	5.633	2119667	5379142	13C7-PFUnDA_IS	5.0000	4.2245	ng/mL
PFTeDA-13C_IS	Auto	5.633	2119667	2119667	----	5.0000	5.0000	ng/mL
FOSA	ND(W/B)	----	----	1327471	FOSA-13C_IS	1.0000	----	ng/mL
FOSA-13C	Auto	5.230	1327471	5379142	13C7-PFUnDA_IS	5.0000	4.1544	ng/mL
FOSA-13C_IS	Auto	5.230	1327471	1327471	----	5.0000	5.0000	ng/mL
N-MeFOSA	ND(W/B)	----	----	293920	N-MeFOSA-d3_IS	1.0000	----	ng/mL
N-MeFOSA-d3	Auto	5.621	293920	5379142	13C7-PFUnDA_IS	5.0000	3.9560	ng/mL
N-MeFOSA-d3_IS	Auto	5.621	293920	293920	----	5.0000	5.0000	ng/mL
N-EtFOSA	ND(W/B)	----	----	330114	N-EtFOSA-d9_IS	1.0000	----	ng/mL
N-EtFOSA-d9	Auto	5.753	330114	5379142	13C7-PFUnDA_IS	5.0000	3.9105	ng/mL
N-EtFOSA-d9_IS	Auto	5.753	330114	330114	----	5.0000	5.0000	ng/mL

210819_030 (continued)

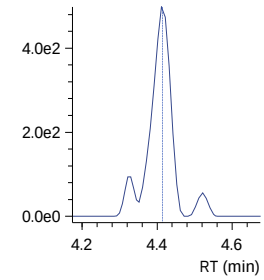
(Table continued from previous page)

Name	Mode ID	Found RT	Area	ISTD Area	ISTD Name	Std. Conc.	Conc.	Unit
N-MeFOSE	ND(W/B)	----	----	307733	N-MeFOSE-d7_IS	1.0000	----	ng/mL
N-MeFOSE-d7	Auto	5.595	307733	5379142	13C7-PFUnDA_IS	5.0000	4.1419	ng/mL
N-MeFOSE-d7_IS	Auto	5.595	307733	307733	----	5.0000	5.0000	ng/mL
N-EtFOSE	ND(W/B)	----	----	320804	N-EtFOSE-d9_IS	1.0000	----	ng/mL
N-EtFOSE-d9	Auto	5.724	320804	5379142	13C7-PFUnDA_IS	5.0000	4.1705	ng/mL
N-EtFOSE-d9_IS	Auto	5.724	320804	320804	----	5.0000	5.0000	ng/mL
N-MeFOSAA	MI	5.047	40358	260481	N-MeFOSAA-d3_IS	1.0000	0.8374	ng/mL
N-MeFOSAA-d3	Auto	5.044	260481	5379142	13C7-PFUnDA_IS	5.0000	4.2986	ng/mL
N-MeFOSAA-d3_IS	Auto	5.044	260481	260481	----	5.0000	5.0000	ng/mL
N-EtFOSAA	Auto	5.145	41334	246263	N-EtFOSAA-d5_IS	1.0000	0.9711	ng/mL
N-EtFOSAA-d5	Auto	5.142	246263	5379142	13C7-PFUnDA_IS	5.0000	4.3654	ng/mL
N-EtFOSAA-d5_IS	Auto	5.142	246263	246263	----	5.0000	5.0000	ng/mL
4_2-FTS_1	ND(W/B)	----	----	509934	4_2-FTS-13C_IS	0.9372	----	ng/mL
4_2-FTS-13C	Auto	4.208	509934	5379142	13C7-PFUnDA_IS	5.0000	4.1252	ng/mL
4_2-FTS-13C_IS	Auto	4.208	509934	509934	----	5.0000	5.0000	ng/mL
6_2-FTS_1	ND(W/B)	----	----	500282	6_2-FTS-13C_IS	0.9512	----	ng/mL
6_2-FTS-13C	Auto	4.576	500282	5379142	13C7-PFUnDA_IS	5.0000	4.2840	ng/mL
6_2-FTS-13C_IS	Auto	4.576	500282	500282	----	5.0000	5.0000	ng/mL
8_2-FTS_1	ND(W/B)	----	----	283320	8_2-FTS-13C_IS	0.9600	----	ng/mL
8_2-FTS-13C	Auto	4.945	283320	5379142	13C7-PFUnDA_IS	5.0000	4.5582	ng/mL
8_2-FTS-13C_IS	Auto	4.945	283320	283320	----	5.0000	5.0000	ng/mL
10_2-FtS_1	ND(W/B)	----	----	283320	8_2-FTS-13C_IS	0.9662	----	ng/mL
HFPO_DA	ND(W/B)	----	----	553945	HFPO_DA-13C_IS	1.0000	----	ng/mL
HFPO_DA-13C	Auto	4.300	553945	5379142	13C7-PFUnDA_IS	5.0000	3.9856	ng/mL
HFPO_DA-13C_IS	Auto	4.300	553945	553945	----	5.0000	5.0000	ng/mL

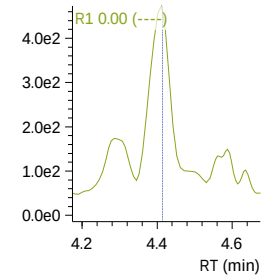


210819_030 (continued)

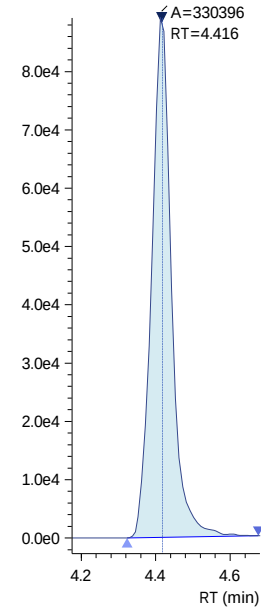
PFHxS_1
Conc ----
R#1 0.00 (71.26)
Q 399.00>80.00 (-) 4.98e2



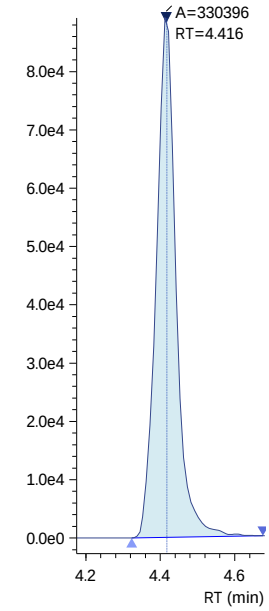
R1 399.00>99.00 (-) 4.73e2



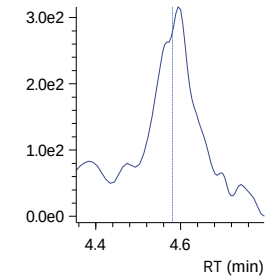
PFHxS-18O
Conc 4.3634
Q 402.70>84.05 (-) 8.92e4



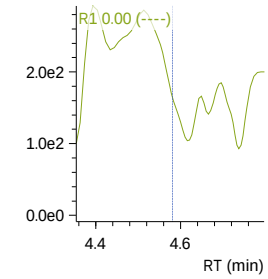
PFHxS-18O_IS
Conc 5.0000
ISTD 402.70>84.05 (-) 8.92e4



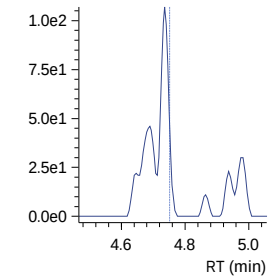
PFHpS_1
Conc ----
R#1 0.00 (53.84)
Q 449.00>80.15 (-) 3.16e2



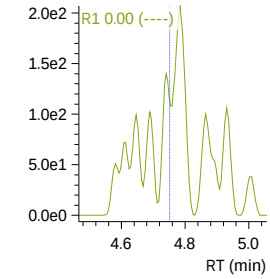
R1 449.00>99.20 (-) 2.92e2



PFOS_1
Conc ----
R#1 0.00 (86.72)
Q 499.00>80.00 (-) 1.07e2



R1 499.00>99.00 (-) 2.07e2



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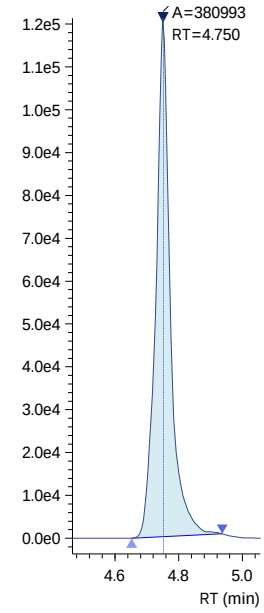
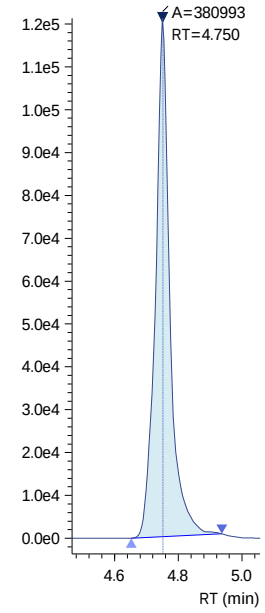
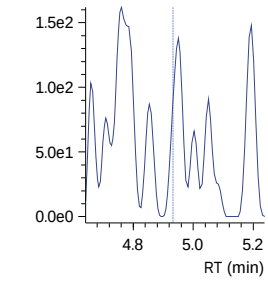
Conc 4.0485
Q 502.80>80.05 (-) 1.21e5



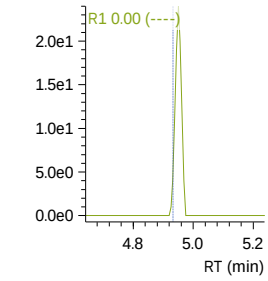
PFOS-13C_IS
Conc 5.0000
ISTD 502.80>80.05 (-) 1.21e5



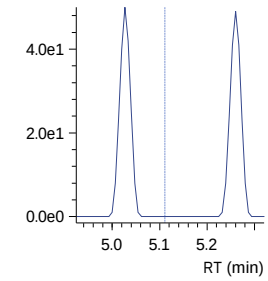
PFNS
Conc ----
R#1 0.00 (129.18)
Q 549.00>99.00 (-) 1.62e2



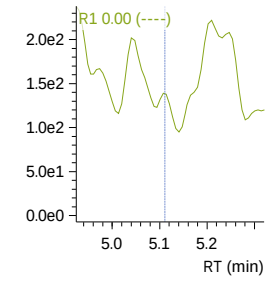
R1 549.00>79.95 (-) 2.40e1



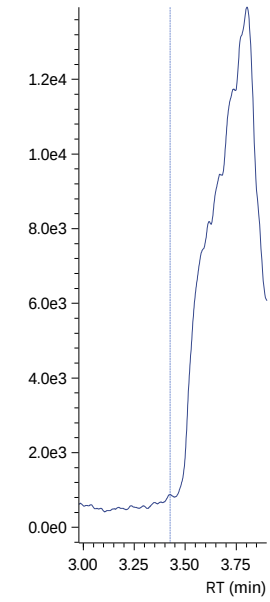
PFDS_1
Conc ----
R#1 0.00 (90.77)
Q 599.00>79.90 (-) 5.00e1



R1 599.00>99.10 (-) 2.38e2

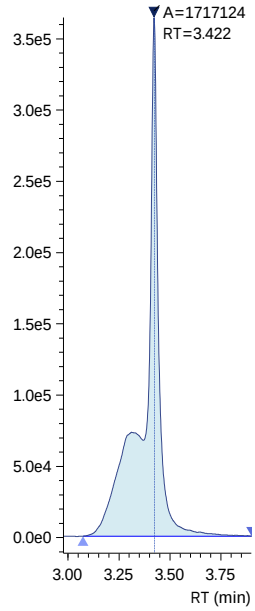


PFBA
Conc ----
Q 213.00>169.10 (-) 1.39e4

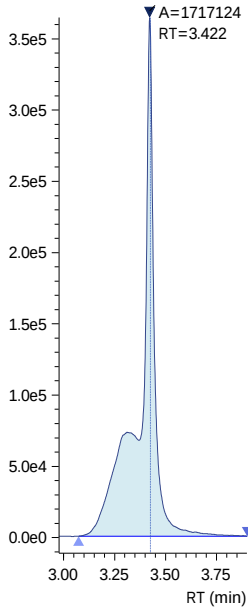


210819_030 (continued)

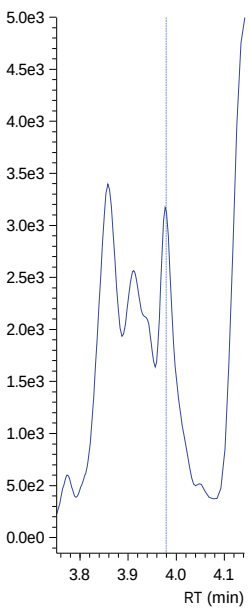
PFBA-13C
Conc 3.9084
Q 216.90>172.15 (-) 3.65e5



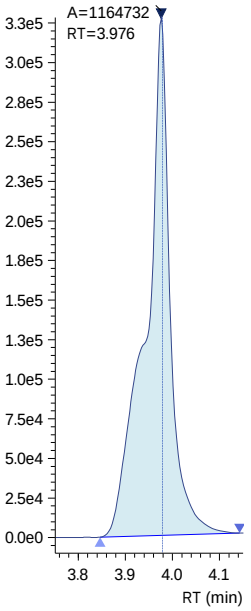
PFBA-13C_IS
Conc 5.0000
ISTD 216.90>172.15 (-) 3.65e5



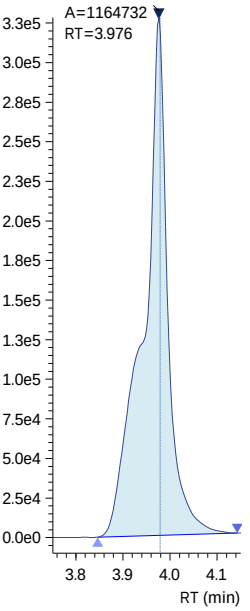
PFPeA
Conc ----
Q 263.05>219.10 (-) 5.00e3



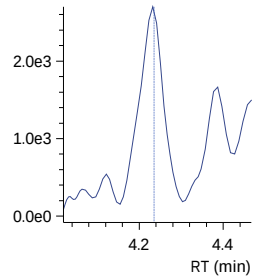
PFPeA-13C
Conc 4.0228
Q 267.90>223.00 (-) 3.28e5



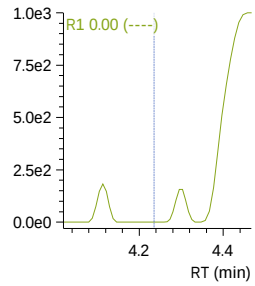
PFPeA-13C_IS
Conc 5.0000
ISTD 267.90>223.00 (-) 3.28e5



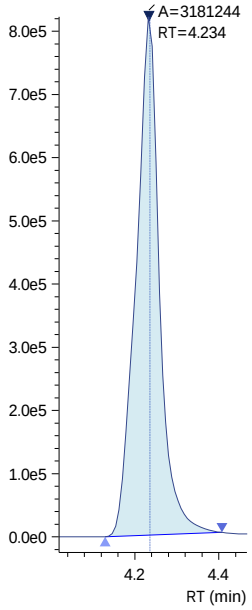
PFHxA
Conc ----
R#1 0.00 (4.17)
Q 313.00>269.00 (-) 2.70e3



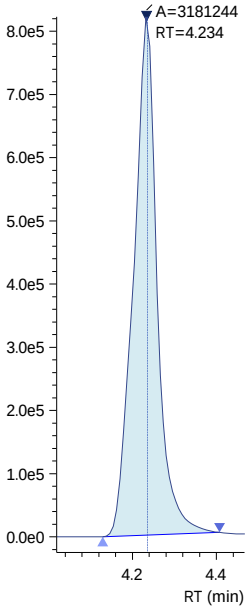
R1 313.00>119.10 (-) 1.00e3



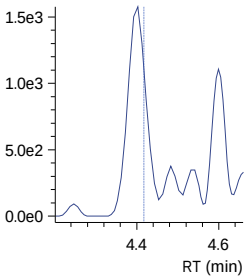
PFHxA-13C
Conc 3.9906
Q 314.90>270.10 (-) 8.23e5



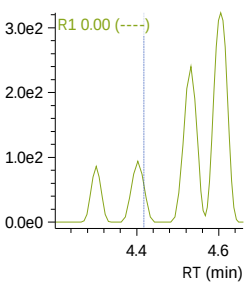
PFHxA-13C_IS
Conc 5.0000
ISTD 314.90>270.10 (-) 8.23e5



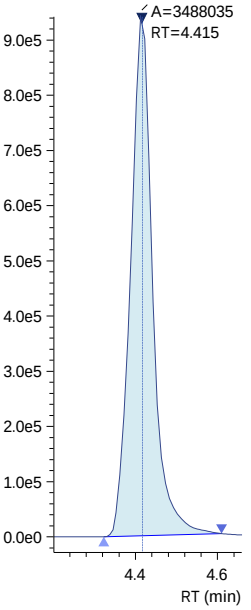
PFHpA
Conc ----
R#1 0.00 (26.04)
Q 362.90>319.00 (-) 1.58e3



R1 362.90>169.00 (-) 3.23e2

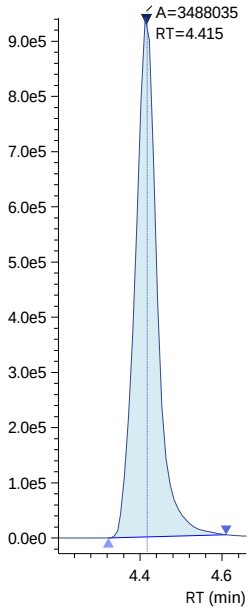


PFHpA-13C
Conc 4.3096
Q 366.90>322.10 (-) 9.42e5

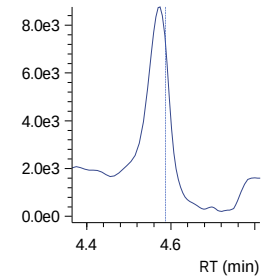


210819_030 (continued)

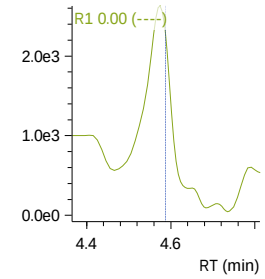
PFHpA-13C_IS
Conc 5.0000
ISTD 366.90>322.10 (-) 9.42e5



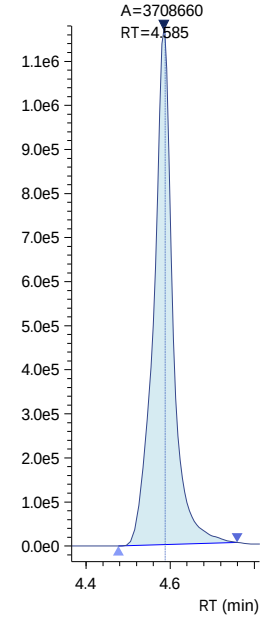
PFOA
Conc ----
R#1 0.00 (30.35)
Q 413.00>369.00 (-) 8.76e3



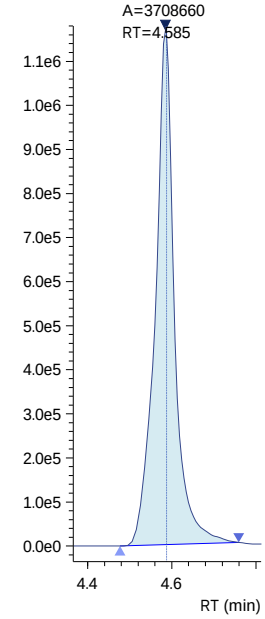
R1 413.00>169.10 (-) 2.63e3



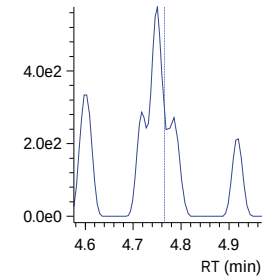
PFOA-13C
Conc 4.1160
Q 416.80>372.05 (-) 1.18e6



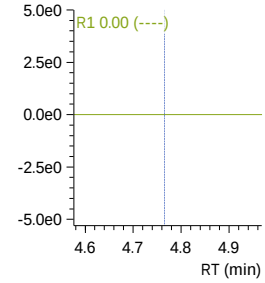
PFOA-13C_IS
Conc 5.0000
ISTD 416.80>372.05 (-) 1.18e6



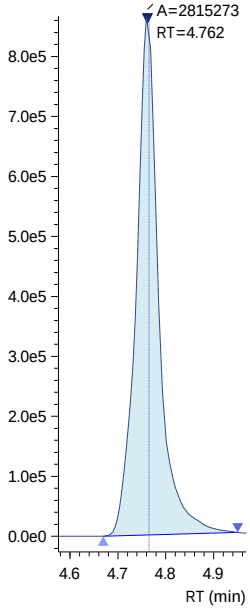
PFNA
Conc ----
R#1 0.00 (22.35)
Q 463.00>418.90 (-) 5.76e2



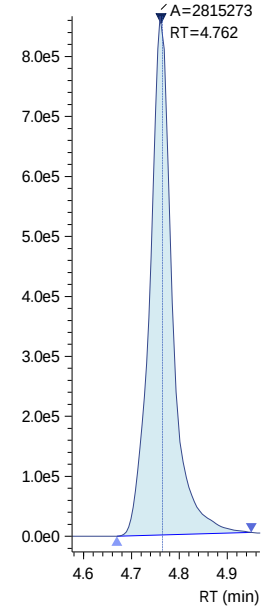
R1 463.00>219.00 (-) 0.00e0



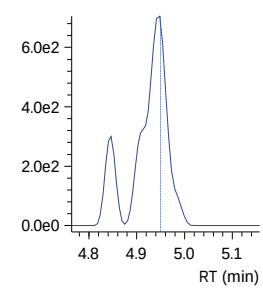
PFNA-13C
Conc 4.0960
Q 467.80>423.00 (-) 8.67e5



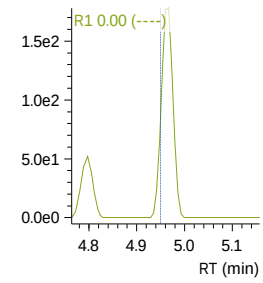
PFNA-13C_IS
Conc 5.0000
ISTD 467.80>423.00 (-) 8.67e5



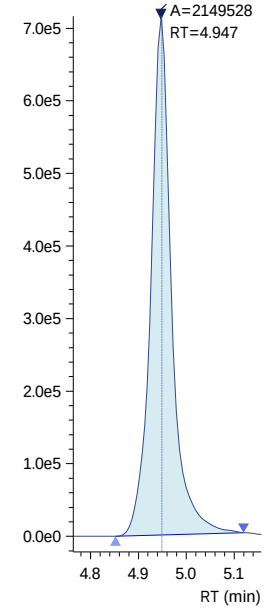
PFDA
Conc ----
R#1 0.00 (18.73)
Q 513.00>468.80 (-) 7.05e2



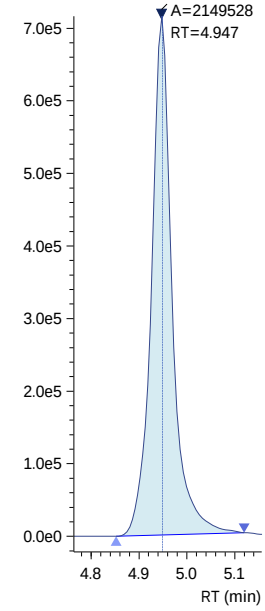
R1 513.00>219.10 (-) 1.78e2



PFDA-13C
Conc 4.2312
Q 514.80>469.95 (-) 7.17e5

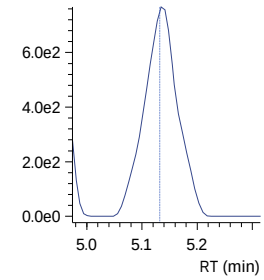


PFDA-13C_IS
Conc 5.0000
ISTD 514.80>469.95 (-) 7.17e5

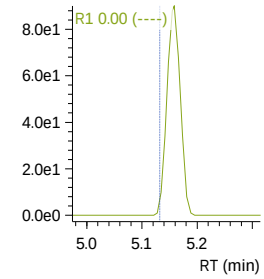


210819_030 (continued)

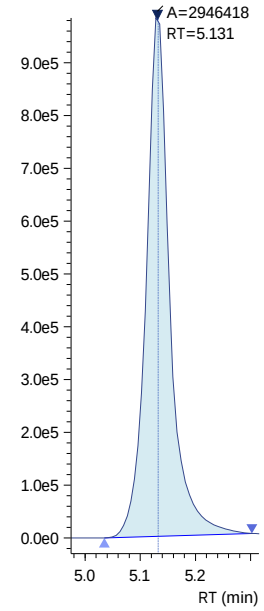
PFUnA
Conc ----
R#1 0.00 (11.60)
Q 563.00>518.90 (-) 7.67e2



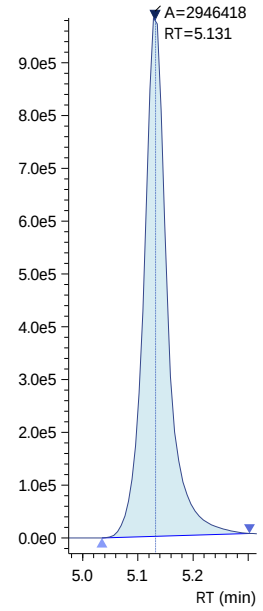
R1 563.00>219.00 (-) 9.00e1



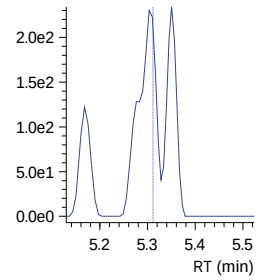
PFUnA-13C
Conc 4.3530
Q 564.80>519.95 (-) 9.85e5



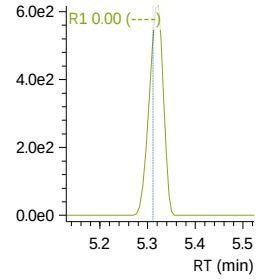
PFUnA-13C_IS
Conc 5.0000
ISTD 564.80>519.95 (-) 9.85e5



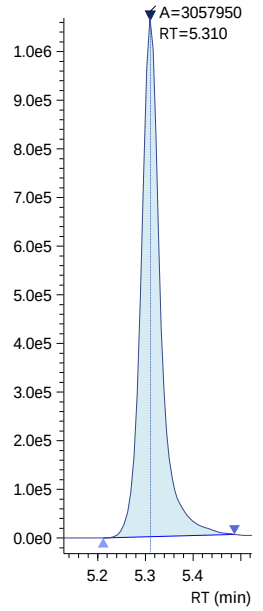
PFDoA
Conc ----
R#1 0.00 (15.11)
Q 613.05>569.00 (-) 2.34e2



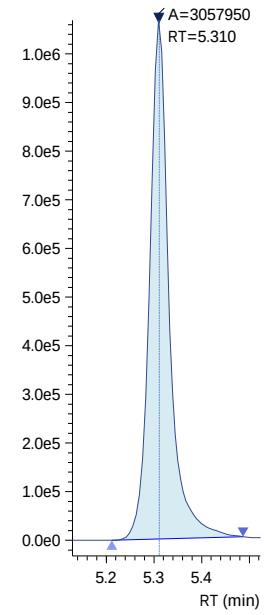
R1 613.05>169.00 (-) 6.17e2



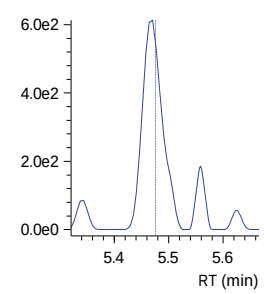
PFDoA-13C
Conc 4.1243
Q 614.80>569.95 (-) 1.07e6



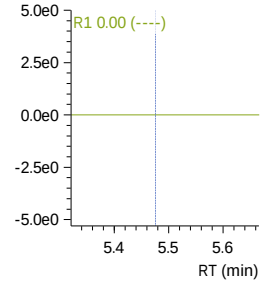
PFDoA-13C_IS
Conc 5.0000
ISTD 614.80>569.95 (-) 1.07e6



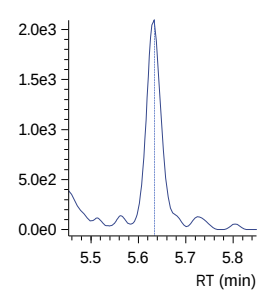
PFTrDA
Conc ----
R#1 0.00 (14.19)
Q 663.00>618.90 (-) 6.13e2



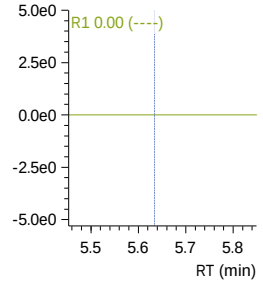
R1 662.90>169.00 (-) 0.00e0



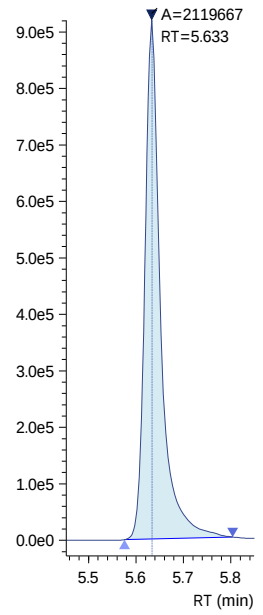
PFTeDA
Conc ----
R#1 0.00 (14.98)
Q 713.00>669.00 (-) 2.09e3



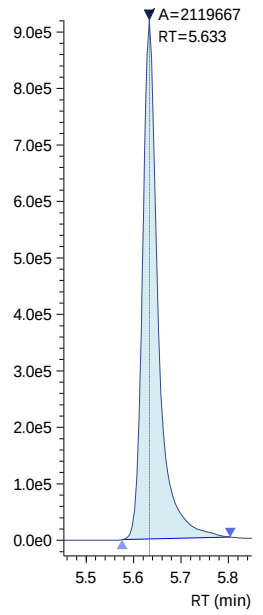
R1 713.00>169.10 (-) 0.00e0



PFTeDA-13C
Conc 4.2245
Q 714.70>669.90 (-) 9.21e5

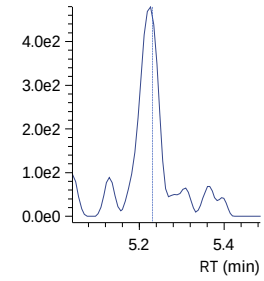


PFTeDA-13C_IS
Conc 5.0000
ISTD 714.70>669.90 (-) 9.21e5

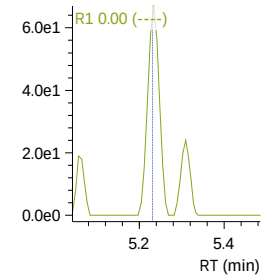


210819_030 (continued)

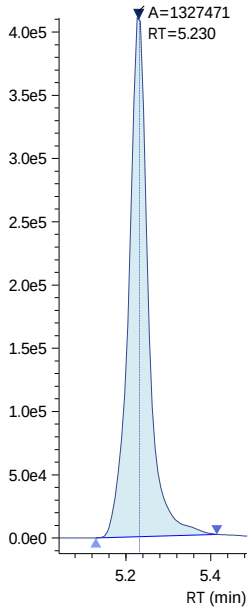
FOSA
Conc ----
R#1 0.00 (4.89)
Q 498.20>78.00 (-) 4.79e2



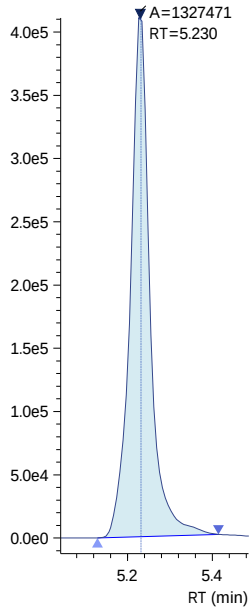
R1 498.20>64.10 (-) 6.70e1



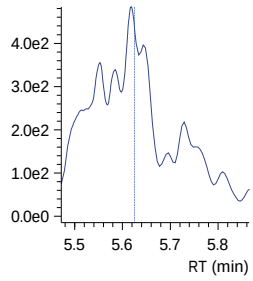
FOSA-13C
Conc 4.1544
Q 506.00>78.05 (-) 4.11e5



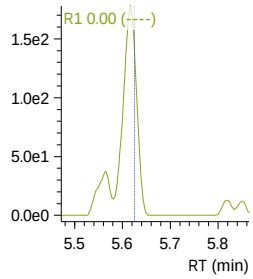
FOSA-13C_IS
Conc 5.0000
ISTD 506.00>78.05 (-) 4.11e5



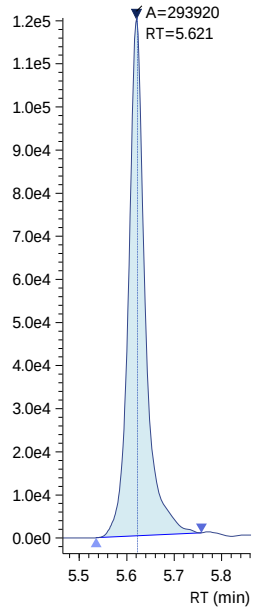
N-MeFOSA
Conc ----
R#1 0.00 (62.72)
Q 512.00>169.10 (-) 4.84e2



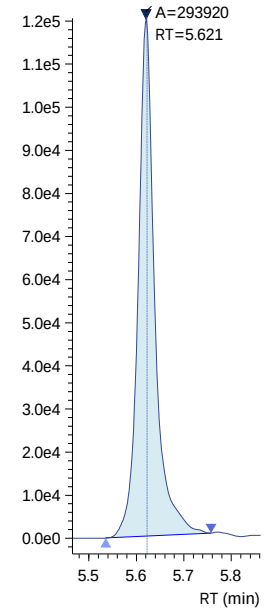
R1 512.00>219.00 (-) 1.78e2



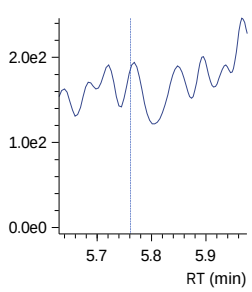
N-MeFOSA-d3
Conc 3.9560
Q 514.90>168.90 (-) 1.21e5



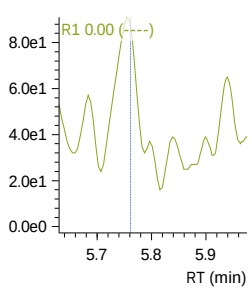
N-MeFOSA-d3_IS
Conc 5.0000
ISTD 514.90>168.90 (-) 1.21e5



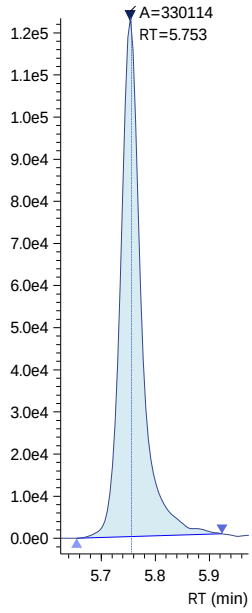
N-EtFOSA
Conc ----
R#1 0.00 (63.35)
Q 526.90>169.10 (-) 2.46e2



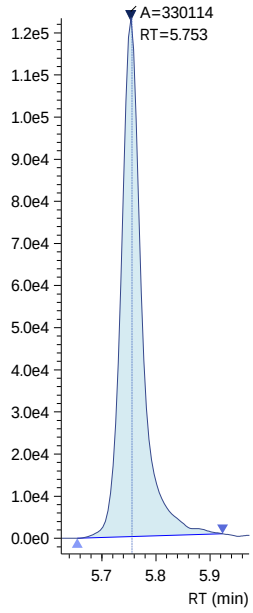
R1 526.90>219.00 (-) 9.10e1



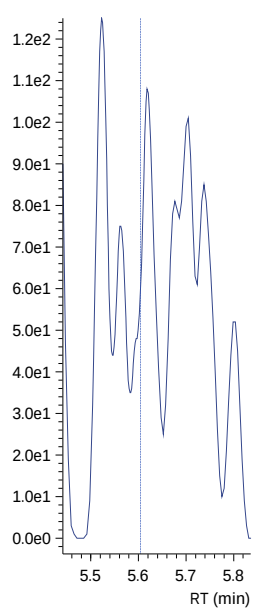
N-EtFOSA-d9
Conc 3.9105
Q 530.90>169.15 (-) 1.23e5



N-EtFOSA-d9_IS
Conc 5.0000
ISTD 530.90>169.15 (-) 1.23e5

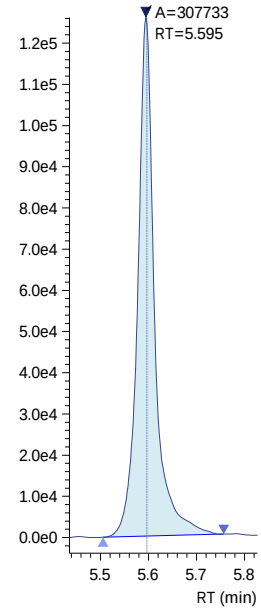


N-MeFOSE
Conc ----
Q 616.00>59.00 (-) 1.25e2

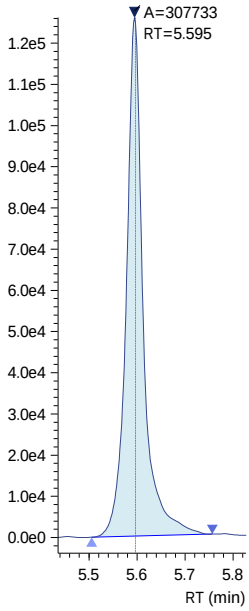


210819_030 (continued)

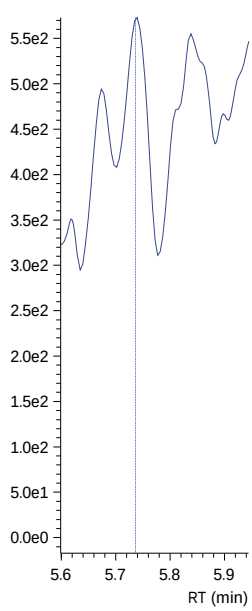
N-MeFOSE-d7
Conc 4.1419
Q 622.70>59.10 (-) 1.26e5



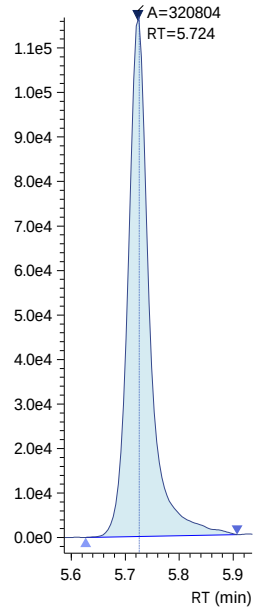
N-MeFOSE-d7_IS
Conc 5.0000
ISTD 622.70>59.10 (-) 1.26e5



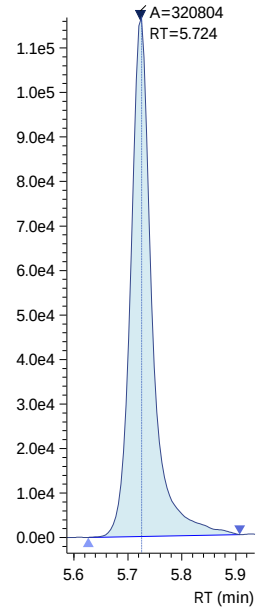
N-EtFOSE
Conc ----
Q 630.00>58.90 (-) 5.73e2



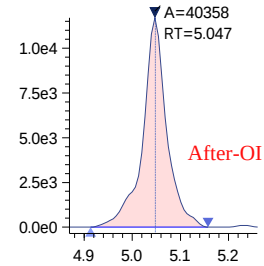
N-EtFOSE-d9
Conc 4.1705
Q 638.70>59.10 (-) 1.17e5



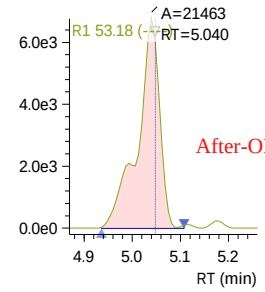
N-EtFOSE-d9_IS
Conc 5.0000
ISTD 638.70>59.10 (-) 1.17e5



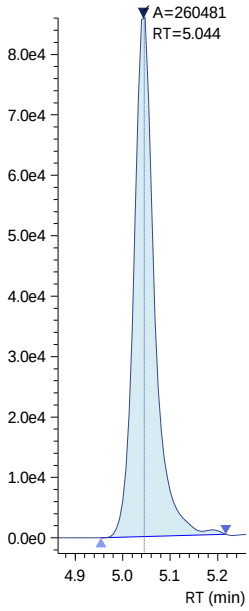
N-MeFOSAA
Conc 0.8374
R#1 53.18 (35.26)
Q 570.20>419.00 (-) 1.17e4



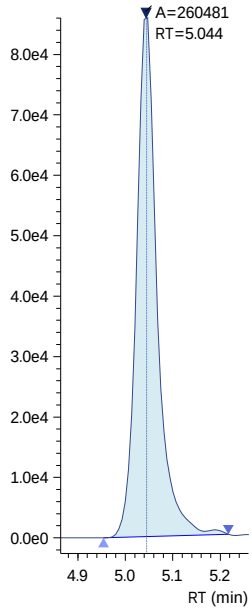
R1 570.20>512.00 (-) 6.76e3



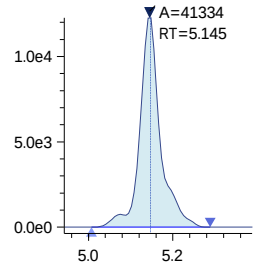
N-MeFOSAA-d3
Conc 4.2986
Q 572.80>419.05 (-) 8.61e4



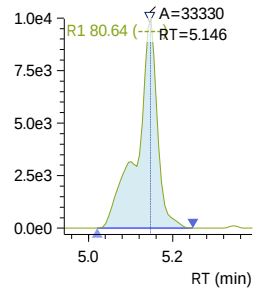
N-MeFOSAA-d3_IS
Conc 5.0000
ISTD 572.80>419.05 (-) 8.61e4



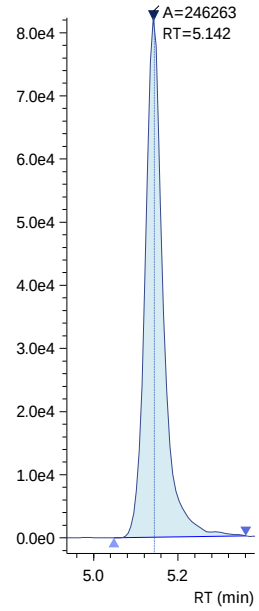
N-EtFOSAA
Conc 0.9711
R#1 80.64 (77.25)
Q 584.20>418.95 (-) 1.23e4



R1 584.20>526.10 (-) 9.97e3

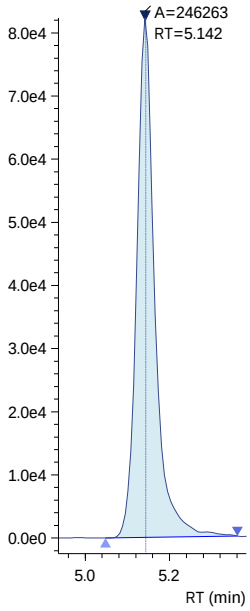


N-EtFOSAA-d5
Conc 4.3654
Q 588.80>419.00 (-) 8.24e4

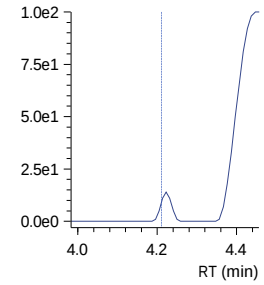


210819_030 (continued)

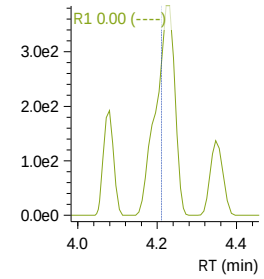
N-EtFOSAA-d5_IS
Conc 5.0000
ISTD 588.80>419.00 (-) 8.24e4



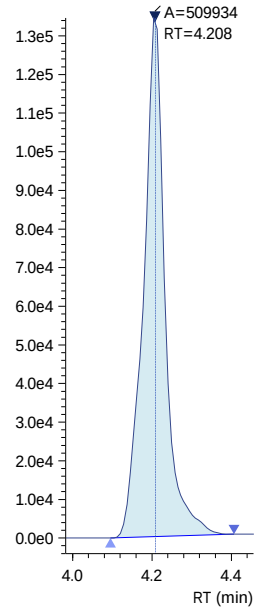
4_2-FTS_1
Conc ----
R#1 0.00 (39.85)
Q 327.00>307.05 (-) 1.00e2



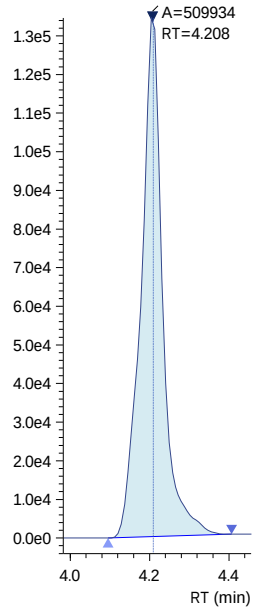
R1 327.00>81.10 (-) 3.84e2



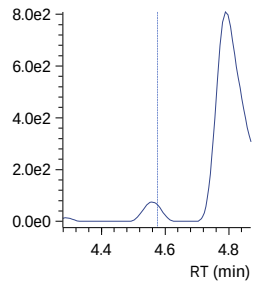
4_2-FTS-13C
Conc 4.1252
Q 328.80>309.05 (-) 1.35e5



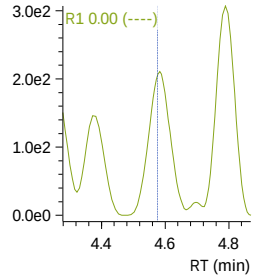
4_2-FTS-13C_IS
Conc 5.0000
ISTD 328.80>309.05 (-) 1.35e5



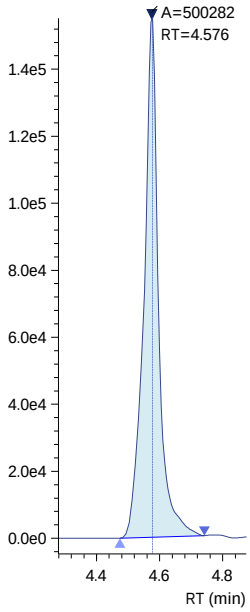
6_2-FTS_1
Conc ----
R#1 0.00 (29.95)
Q 427.00>407.00 (-) 8.09e2



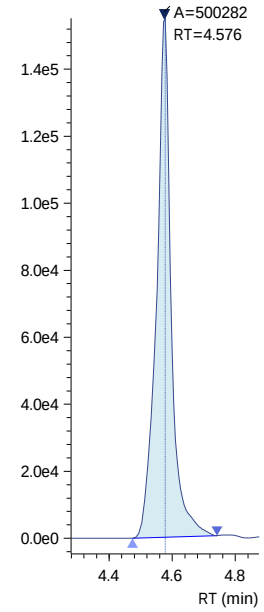
R1 427.00>80.90 (-) 3.07e2



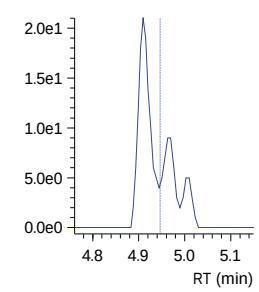
6_2-FTS-13C
Conc 4.2840
Q 428.90>409.00 (-) 1.55e5



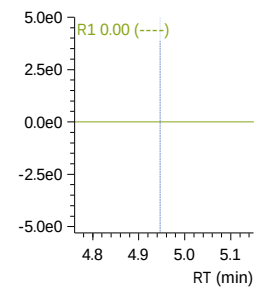
6_2-FTS-13C_IS
Conc 5.0000
ISTD 428.90>409.00 (-) 1.55e5



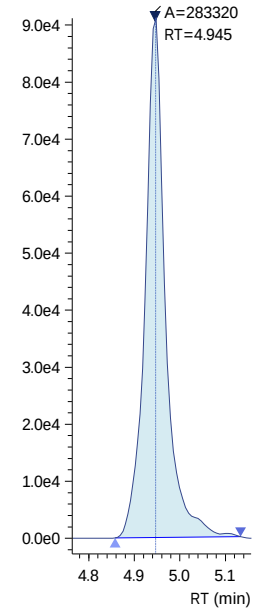
8_2-FTS_1
Conc ----
R#1 0.00 (9.42)
Q 527.10>506.90 (-) 2.10e1



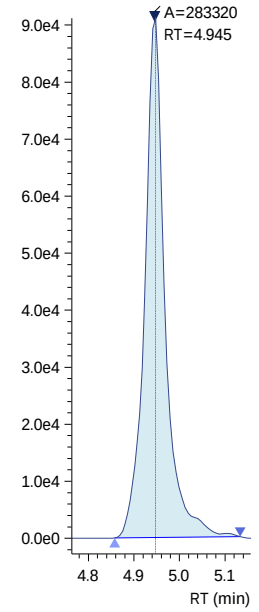
R1 527.20>487.00 (-) 0.00e0



8_2-FTS-13C
Conc 4.5582
Q 528.80>509.00 (-) 9.12e4



8_2-FTS-13C_IS
Conc 5.0000
ISTD 528.80>509.00 (-) 9.12e4



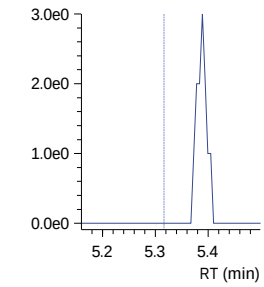
210819_030 (continued)

10_2-FtS_1

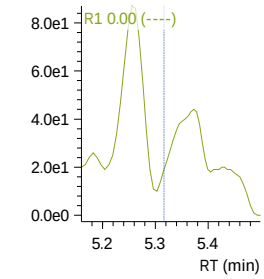
Conc ----

R#1 0.00 (49.86)

Q 627.00>606.95 (-) 3.00e0



R1 627.00>81.25 (-) 8.70e1

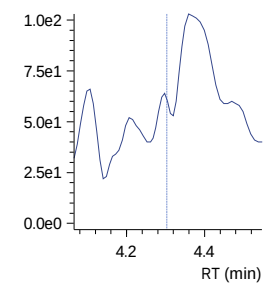


HPFO_DA

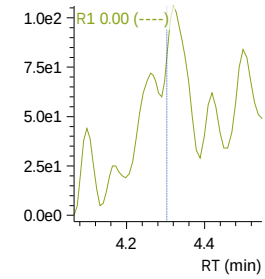
Conc ----

R#1 0.00 (101.52)

Q 329.00>169.00 (-) 1.03e2



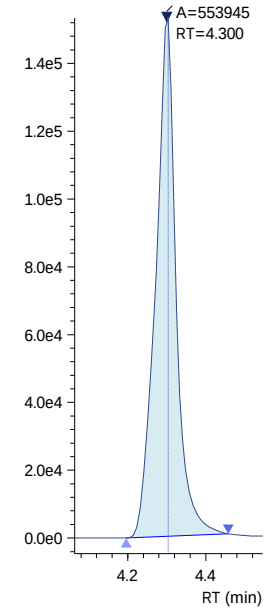
R1 329.00>285.10 (-) 1.06e2



HFPO_DA-13C

Conc 3.9856

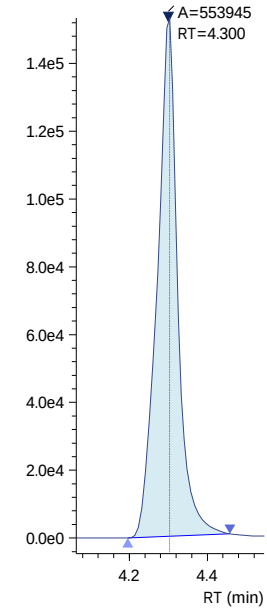
Q 332.00>286.80 (-) 1.53e5



HFPO_DA-13C_IS

Conc 5.0000

ISTD 332.00>286.80 (-) 1.53e5

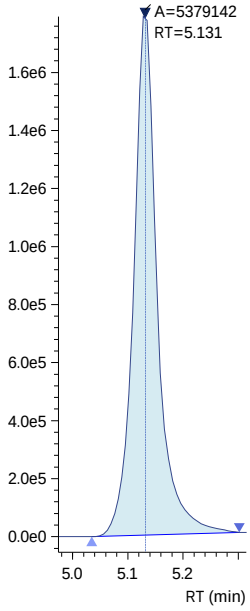


Insight Report
Before Manual Integration
Printed 8/20/2021 09:47:37

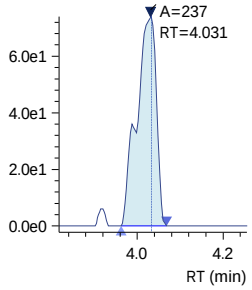
210819_030

Sample ID: EtFOSAA + MeFOSAA ICV @ 1ppb
Date Acquired: 8/19/2021 8:23:51 PM
Acquired by: System Administrator
Data File: 210819_030
Vial: 10 | Inj. Volume: 15.0000uL | Tray: 0

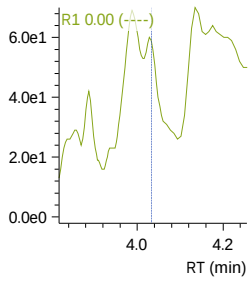
13C7-PFUnDA_IS
Conc 5.0000
ISTD 570.00>525.00 (-) 1.79e6



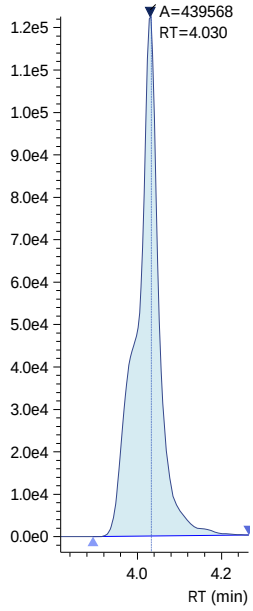
PFBS_1
Conc 0.0015
R#1 0.00 (48.11)
Q 299.00>80.00 (-) 7.40e1



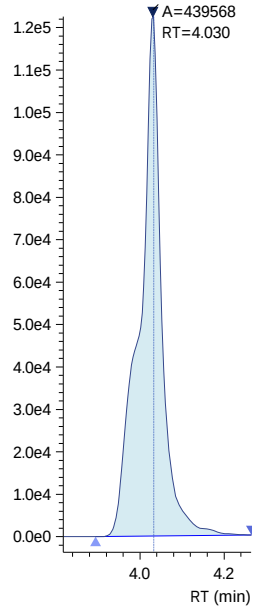
R1 298.80>99.00 (-) 7.00e1



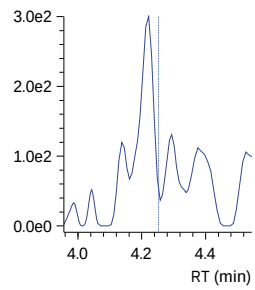
PFBS-13C
Conc 3.9608
Q 301.80>80.00 (-) 1.23e5



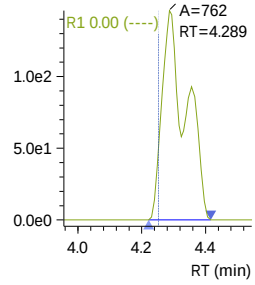
PFBS-13C_IS
Conc 5.0000
ISTD 301.80>80.00 (-) 1.23e5



PFPeS
Conc ----
R#1 0.00 (149.27)
Q 349.00>99.00 (-) 3.00e2

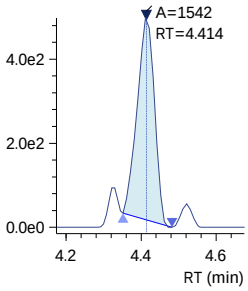


R1 349.00>79.95 (-) 1.46e2

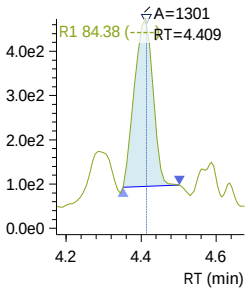


210819_030 (continued)

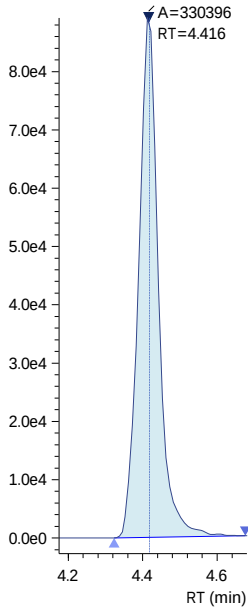
PFHxS_1
Conc 0.0126
R#1 84.38 (83.10)
Q 399.00>80.00 (-) 4.98e2



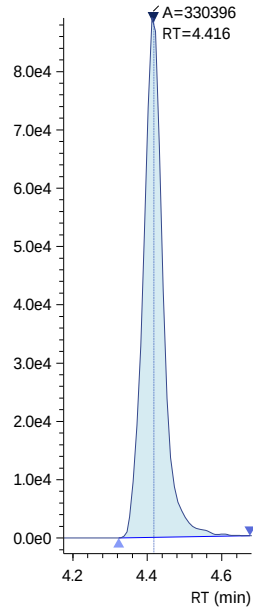
R1 399.00>99.00 (-) 4.73e2



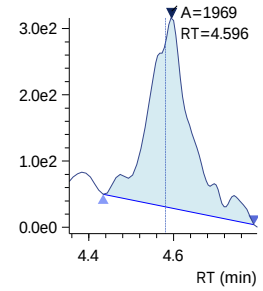
PFHxS-18O
Conc 4.3634
Q 402.70>84.05 (-) 8.92e4



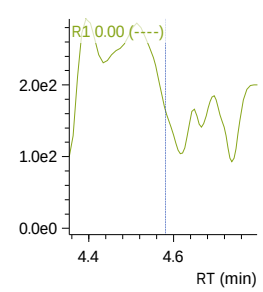
PFHxS-18O_IS
Conc 5.0000
ISTD 402.70>84.05 (-) 8.92e4



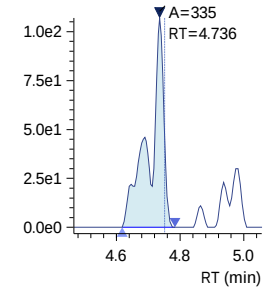
PFHpS_1
Conc 0.0140
R#1 0.00 (58.24)
Q 449.00>80.15 (-) 3.16e2



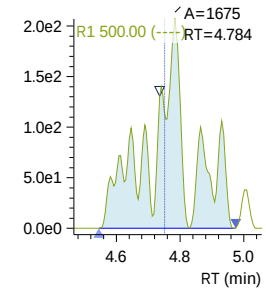
R1 449.00>99.20 (-) 2.92e2



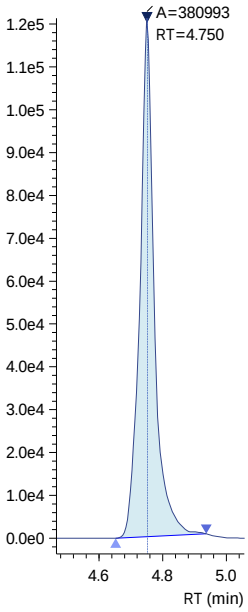
PFOS_1
Conc 0.0046
R#1 500.00 (87.63)
Q 499.00>80.00 (-) 1.07e2



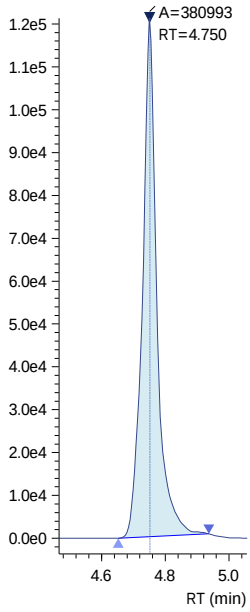
R1 499.00>99.00 (-) 2.07e2



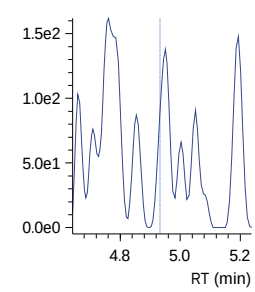
PFOS-13C
Conc 4.0485
Q 502.80>80.05 (-) 1.21e5



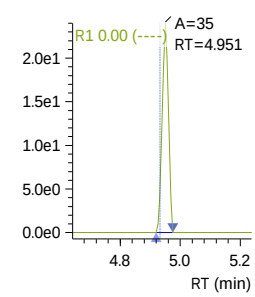
PFOS-13C_IS
Conc 5.0000
ISTD 502.80>80.05 (-) 1.21e5



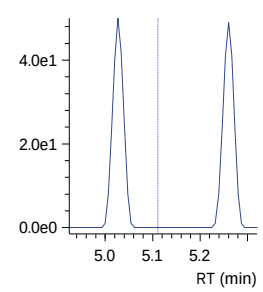
PFNS
Conc ----
R#1 0.00 (137.56)
Q 549.00>99.00 (-) 1.62e2



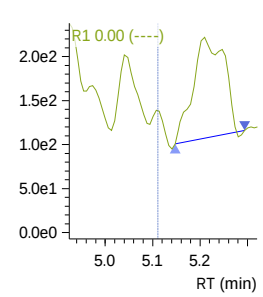
R1 549.00>79.95 (-) 2.40e1



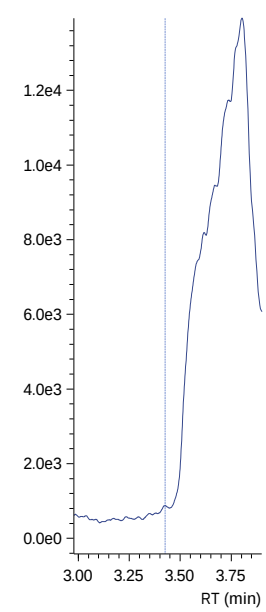
PFDS_1
Conc ----
R#1 0.00 (101.78)
Q 599.00>79.90 (-) 5.00e1



R1 599.00>99.10 (-) 2.38e2

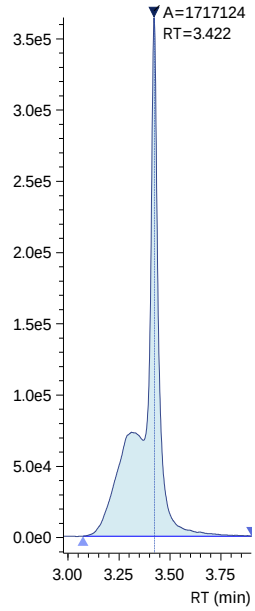


PFBA
Conc ----
Q 213.00>169.10 (-) 1.39e4

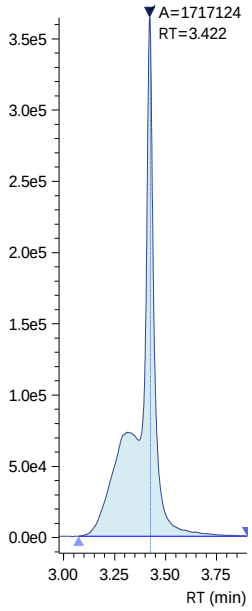


210819_030 (continued)

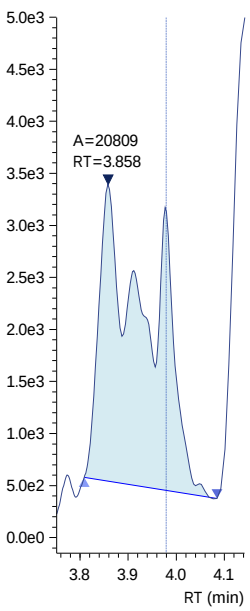
PFBA-13C
Conc 3.9084
Q 216.90>172.15 (-) 3.65e5



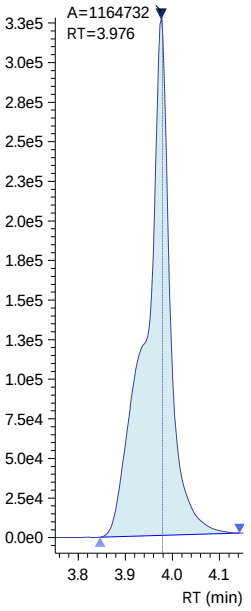
PFBA-13C_IS
Conc 5.0000
ISTD 216.90>172.15 (-) 3.65e5



PFPeA
Conc 0.0120
Q 263.05>219.10 (-) 5.00e3



PFPeA-13C
Conc 4.0228
Q 267.90>223.00 (-) 3.28e5



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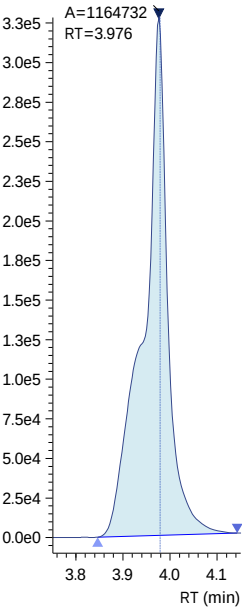
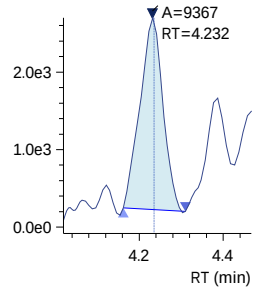
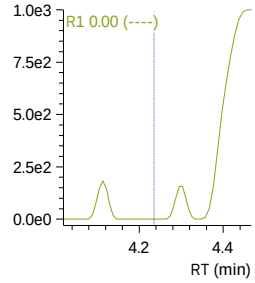
Conc 5.0000
ISTD 267.90>223.00 (-) 3.28e5



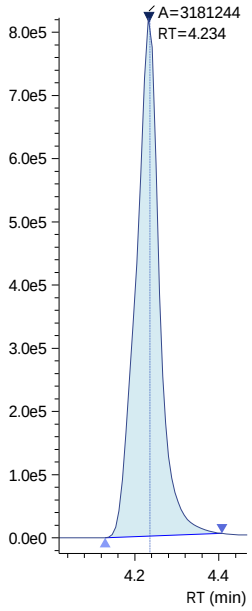
PFHxA
Conc 0.0108
R#1 0.00 (4.21)
Q 313.00>269.00 (-) 2.70e3



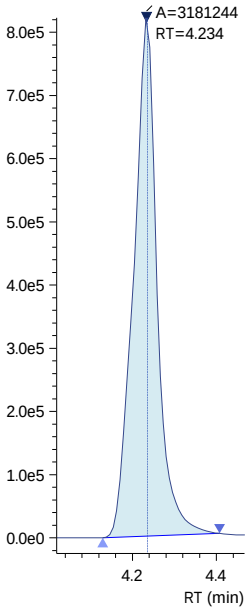
R1 313.00>119.10 (-) 1.00e3



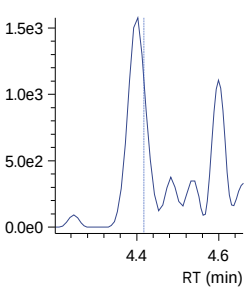
PFHxA-13C
Conc 3.9795
Q 314.90>270.10 (-) 8.23e5



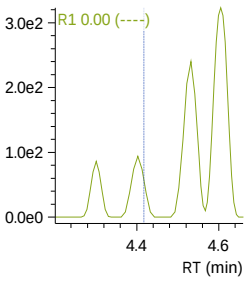
PFHxA-13C_IS
Conc 5.0000
ISTD 314.90>270.10 (-) 8.23e5



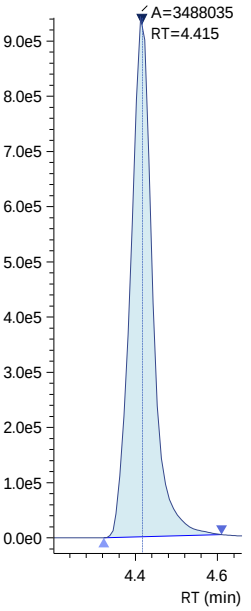
PFHpA
Conc ----
R#1 0.00 (26.69)
Q 362.90>319.00 (-) 1.58e3



R1 362.90>169.00 (-) 3.23e2



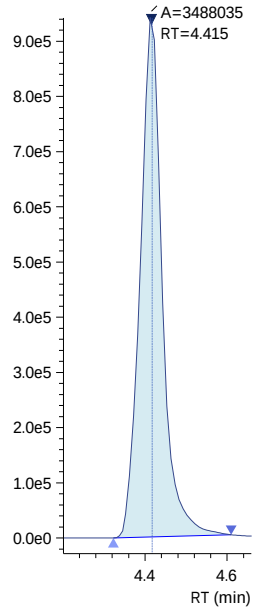
PFHpA-13C
Conc 4.3096
Q 366.90>322.10 (-) 9.42e5



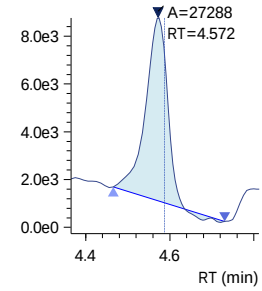
Insight Report
Before Manual Integration
Printed 8/20/2021 09:47:37

210819_030 (continued)

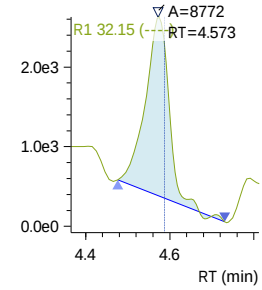
PFHpA-13C_IS
Conc 5.0000
ISTD 366.90>322.10 (-) 9.42e5



PFOA
Conc 0.0115
R#1 32.15 (31.31)
Q 413.00>369.00 (-) 8.76e3



R1 413.00>169.10 (-) 2.63e3



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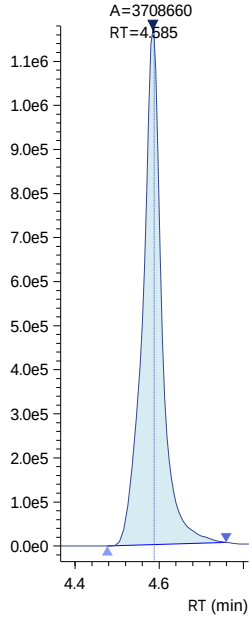
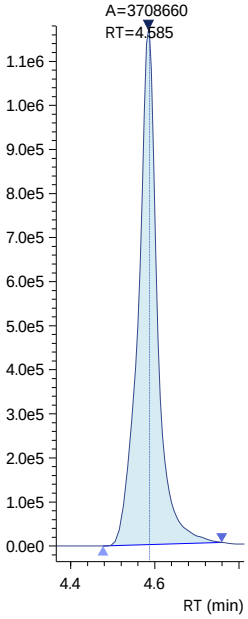
Conc 4.1160
Q 416.80>372.05 (-) 1.18e6



PFOA-13C_IS
Conc 5.0000
ISTD 416.80>372.05 (-) 1.18e6



PFNA
Conc 0.0026
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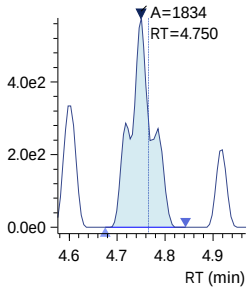
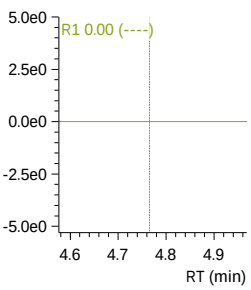
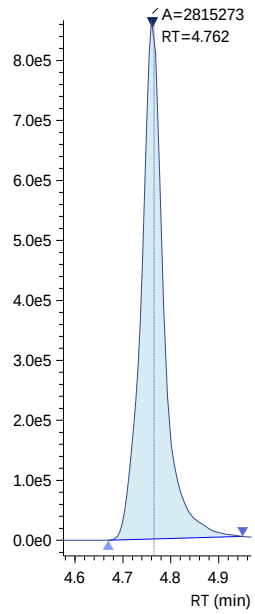
Q 463.00>418.90 (-) 5.76e2



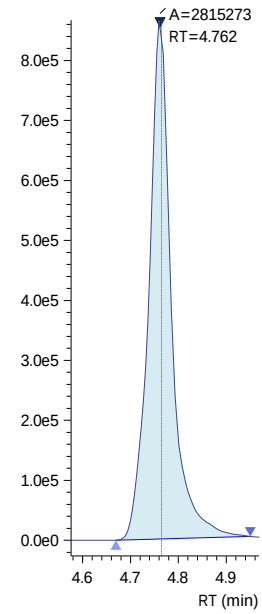
R1 463.00>219.00 (-) 0.00e0



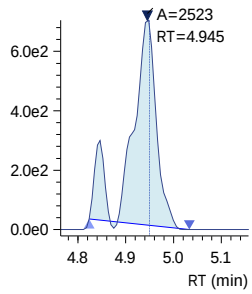
PFNA-13C
Conc 4.0960
Q 467.80>423.00 (-) 8.67e5



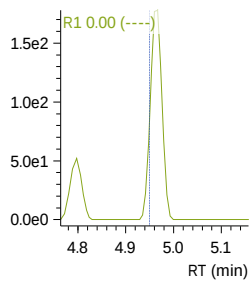
PFNA-13C_IS
Conc 5.0000
ISTD 467.80>423.00 (-) 8.67e5



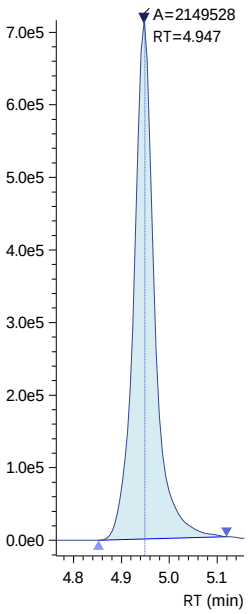
PFDA
Conc 0.0039
R#1 0.00 (20.01)
Q 513.00>468.80 (-) 7.05e2



R1 513.00>219.10 (-) 1.78e2



PFDA-13C
Conc 4.2312
Q 514.80>469.95 (-) 7.17e5



PFDA-13C_IS
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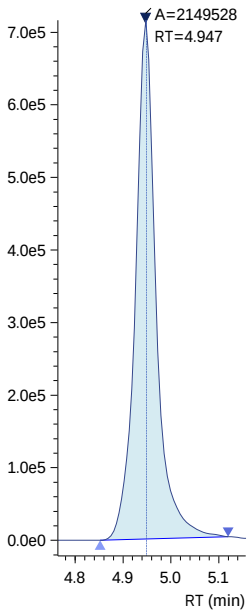
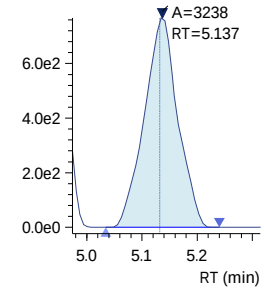
ISTD 514.80>469.95 (-) 7.17e5

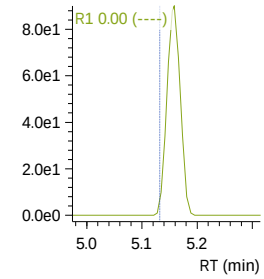


210819_030 (continued)

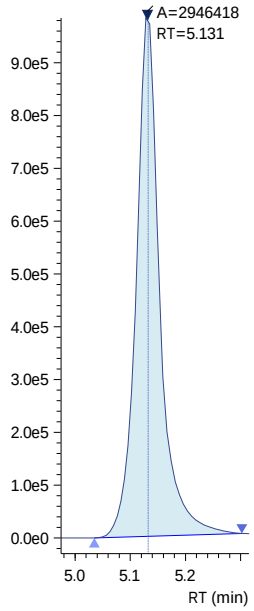
PFUnA
Conc 0.0046
R#1 0.00 (13.39)
Q 563.00>518.90 (-) 7.67e2



R1 563.00>219.00 (-) 9.00e1



PFUnA-13C
Conc 4.3530
Q 564.80>519.95 (-) 9.85e5



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Conc 5.0000
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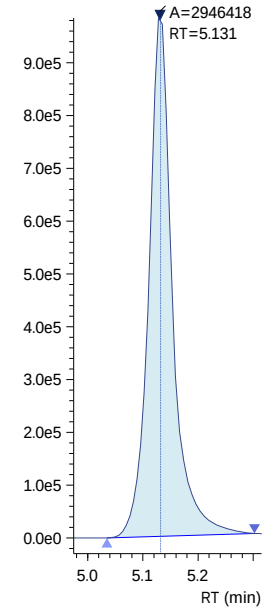
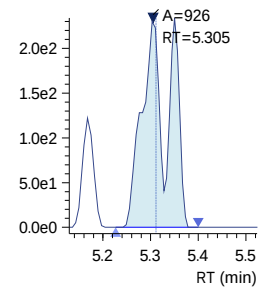
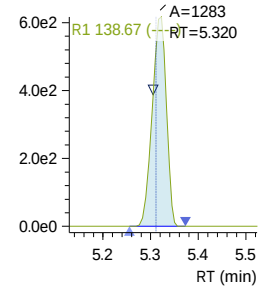


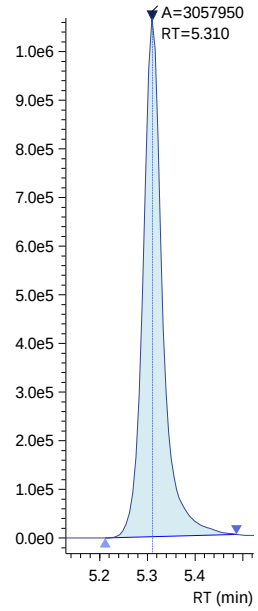
PFDoA
Conc 0.0016
R#1 138.67 (16.84)
Q 613.05>569.00 (-) 2.34e2



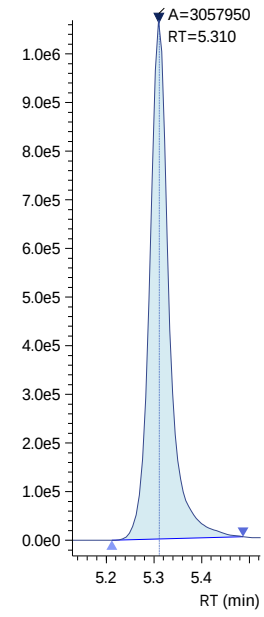
R1 613.05>169.00 (-) 6.17e2



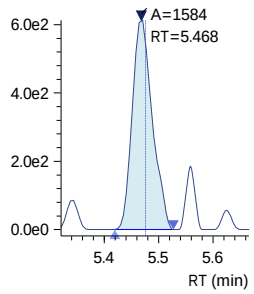
PFDoA-13C
Conc 4.1243
Q 614.80>569.95 (-) 1.07e6



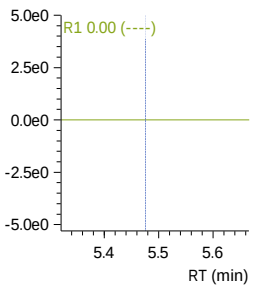
PFDoA-13C_IS
Conc 5.0000
ISTD 614.80>569.95 (-) 1.07e6



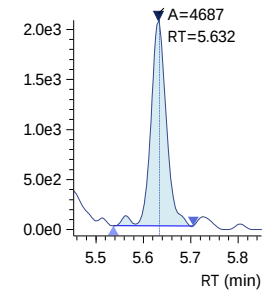
PFTrDA
Conc 0.0025
R#1 0.00 (16.76)
Q 663.00>618.90 (-) 6.13e2



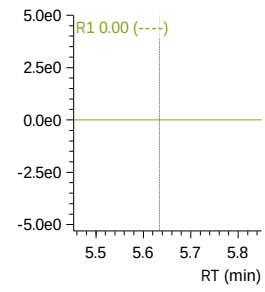
R1 662.90>169.00 (-) 0.00e0



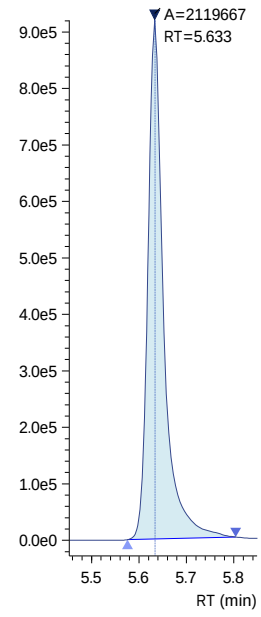
PFTeDA
Conc 0.0097
R#1 0.00 (16.56)
Q 713.00>669.00 (-) 2.09e3



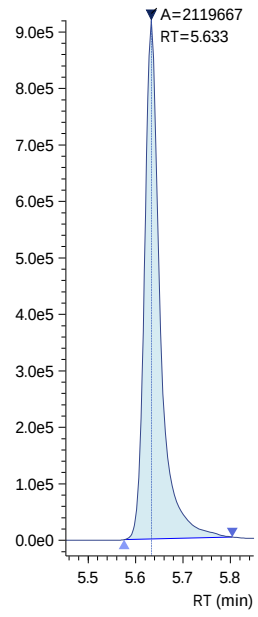
R1 713.00>169.10 (-) 0.00e0



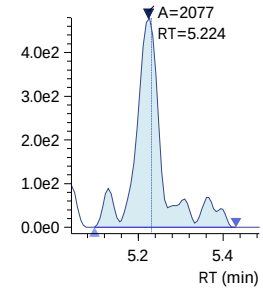
PFTeDA-13C
Conc 4.2245
Q 714.70>669.90 (-) 9.21e5

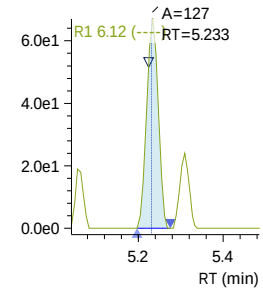


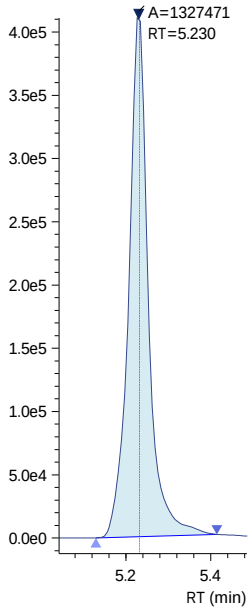
PFTeDA-13C_IS
Conc 5.0000
ISTD 714.70>669.90 (-) 9.21e5

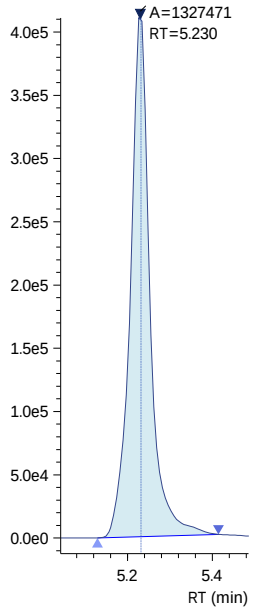


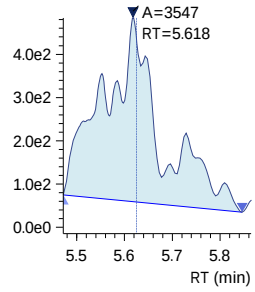
210819_030 (continued)

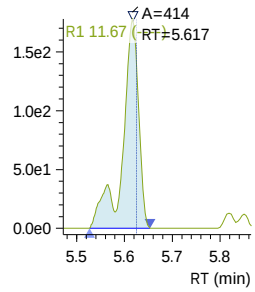
FOSA
Conc 0.0060
R#1 6.12 (4.59)
Q 498.20>78.00 (-) 4.79e2


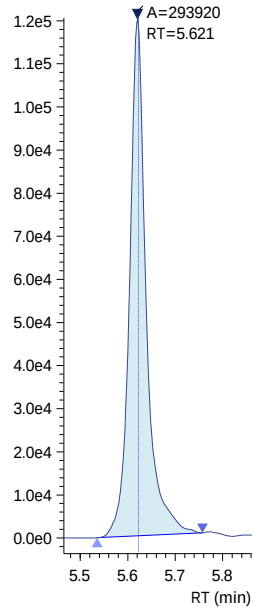
R1 498.20>64.10 (-) 6.70e1


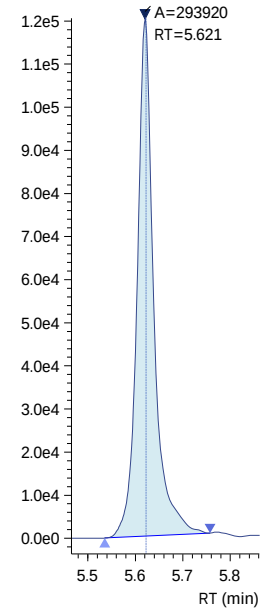
FOSA-13C
Conc 4.1544
Q 506.00>78.05 (-) 4.11e5


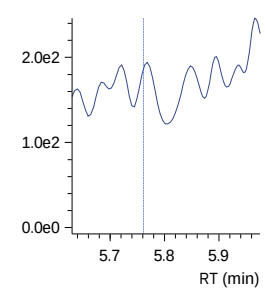
FOSA-13C_IS
Conc 5.0000
ISTD 506.00>78.05 (-) 4.11e5


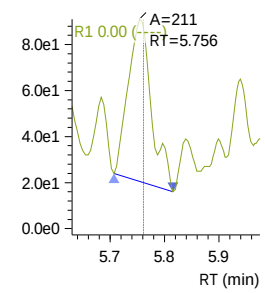
N-MeFOSA
Conc 0.0294
R#1 11.67 (68.73)
Q 512.00>169.10 (-) 4.84e2


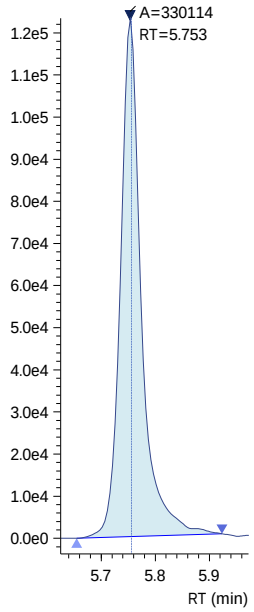
R1 512.00>219.00 (-) 1.78e2


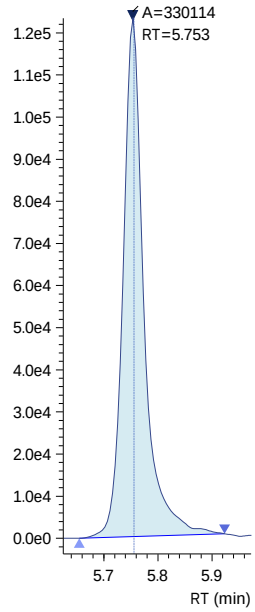
N-MeFOSA-d3
Conc 3.9560
Q 514.90>168.90 (-) 1.21e5


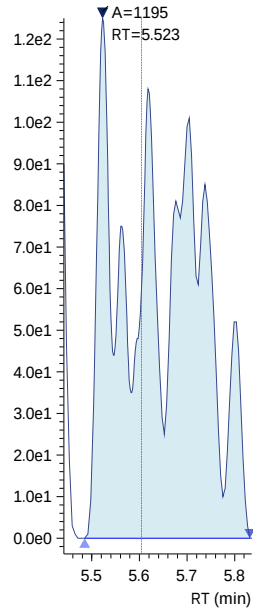
N-MeFOSA-d3_IS
Conc 5.0000
ISTD 514.90>168.90 (-) 1.21e5


N-EtFOSA
Conc ----
R#1 0.00 (62.10)
Q 526.90>169.10 (-) 2.46e2


R1 526.90>219.00 (-) 9.10e1


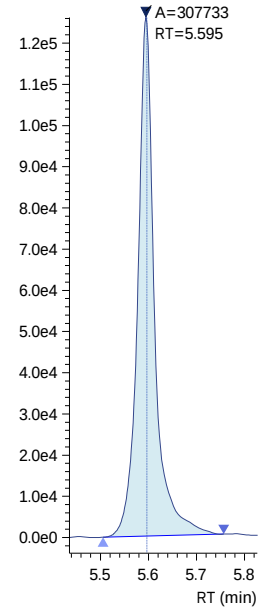
N-EtFOSA-d9
Conc 3.9105
Q 530.90>169.15 (-) 1.23e5


N-EtFOSA-d9_IS
Conc 5.0000
ISTD 530.90>169.15 (-) 1.23e5


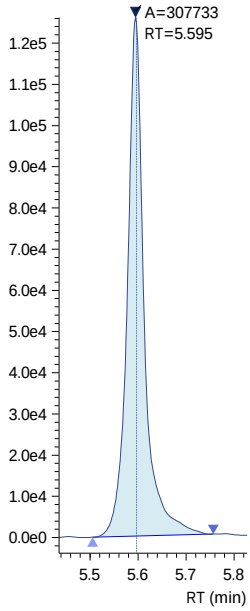
N-MeFOSE
Conc 0.0087
Q 616.00>59.00 (-) 1.25e2


210819_030 (continued)

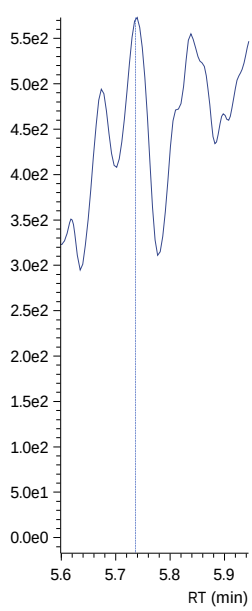
N-MeFOSE-d7
Conc 4.1419
Q 622.70>59.10 (-) 1.26e5



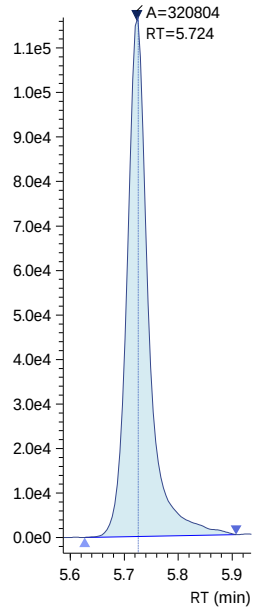
N-MeFOSE-d7_IS
Conc 5.0000
ISTD 622.70>59.10 (-) 1.26e5



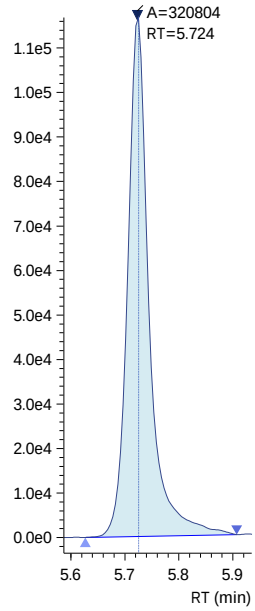
N-EtFOSE
Conc ----
Q 630.00>58.90 (-) 5.73e2



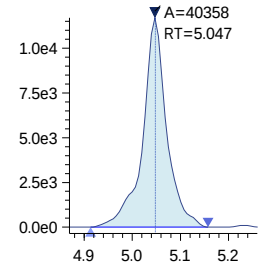
N-EtFOSE-d9
Conc 4.1705
Q 638.70>59.10 (-) 1.17e5



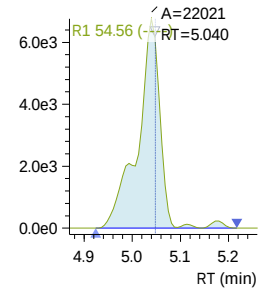
N-EtFOSE-d9_IS
Conc 5.0000
ISTD 638.70>59.10 (-) 1.17e5



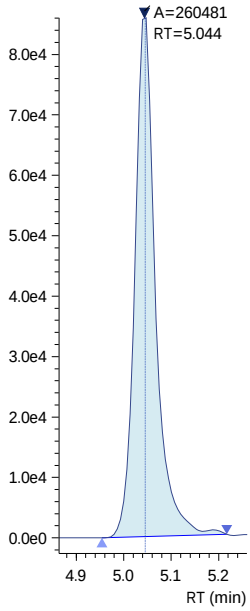
N-MeFOSAA
Conc 0.8070
R#1 54.56 (52.81)
Q 570.20>419.00 (-) 1.17e4



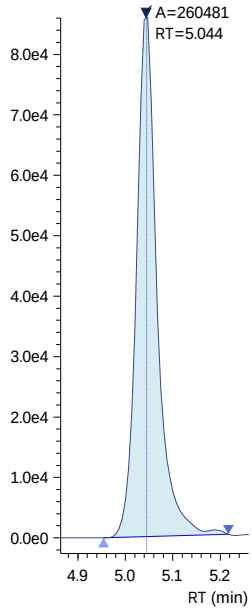
R1 570.20>512.00 (-) 6.76e3



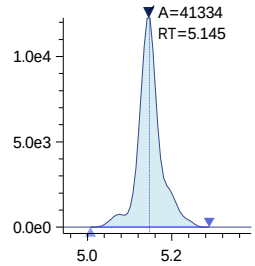
N-MeFOSAA-d3
Conc 4.2909
Q 572.80>419.05 (-) 8.61e4



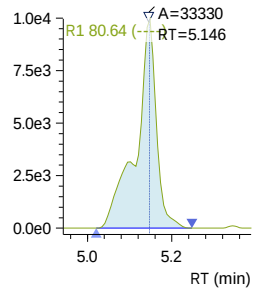
N-MeFOSAA-d3_IS
Conc 5.0000
ISTD 572.80>419.05 (-) 8.61e4



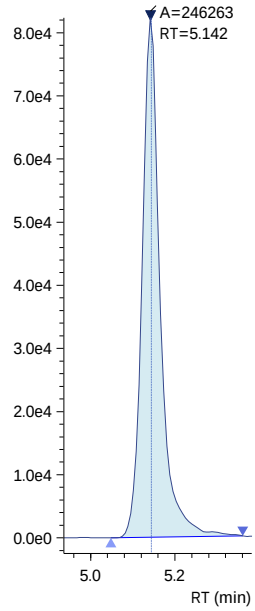
N-EtFOSAA
Conc 0.9728
R#1 80.64 (86.68)
Q 584.20>418.95 (-) 1.23e4



R1 584.20>526.10 (-) 9.97e3

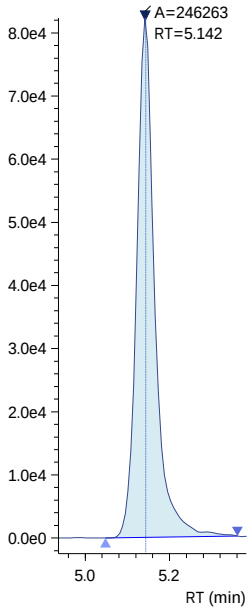


N-EtFOSAA-d5
Conc 4.3394
Q 588.80>419.00 (-) 8.24e4

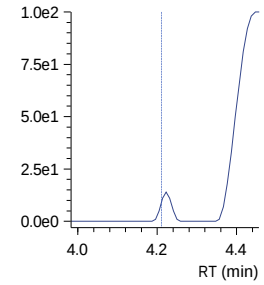


210819_030 (continued)

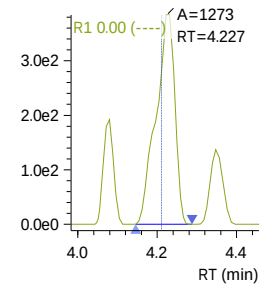
N-EtFOSAA-d5_IS
Conc 5.0000
ISTD 588.80>419.00 (-) 8.24e4



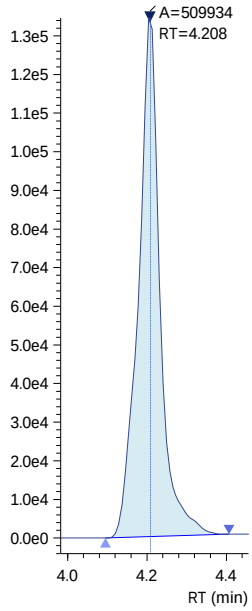
4_2-FTS_1
Conc ----
R#1 0.00 (33.17)
Q 327.00>307.05 (-) 1.00e2



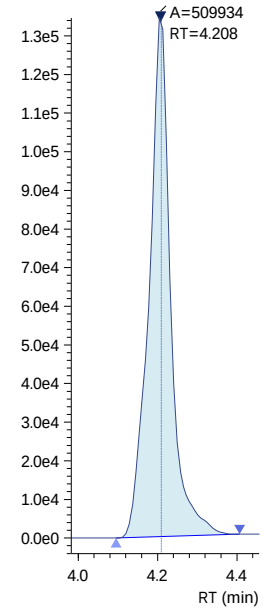
R1 327.00>81.10 (-) 3.84e2



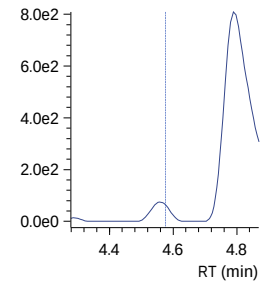
4_2-FTS-13C
Conc 4.1252
Q 328.80>309.05 (-) 1.35e5



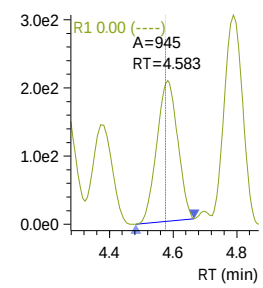
4_2-FTS-13C_IS
Conc 5.0000
ISTD 328.80>309.05 (-) 1.35e5



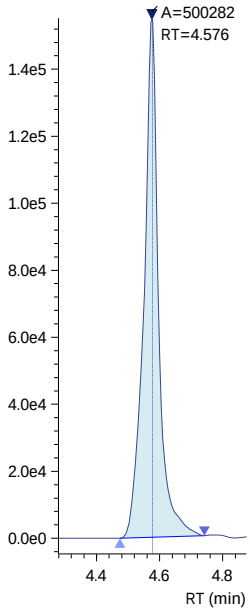
6_2-FTS_1
Conc ----
R#1 0.00 (31.24)
Q 427.00>407.00 (-) 8.09e2



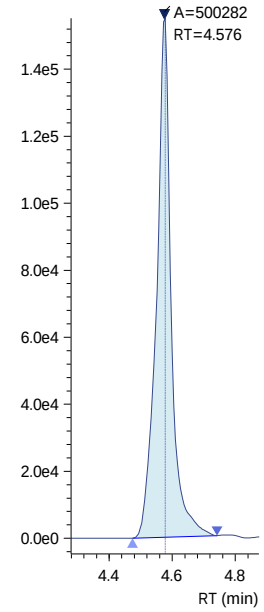
R1 427.00>80.90 (-) 3.07e2



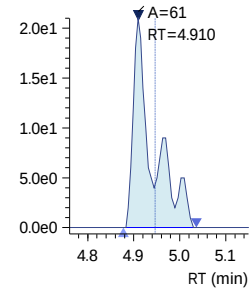
6_2-FTS-13C
Conc 4.2840
Q 428.90>409.00 (-) 1.55e5



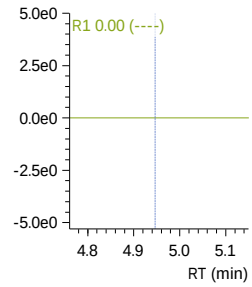
6_2-FTS-13C_IS
Conc 5.0000
ISTD 428.90>409.00 (-) 1.55e5



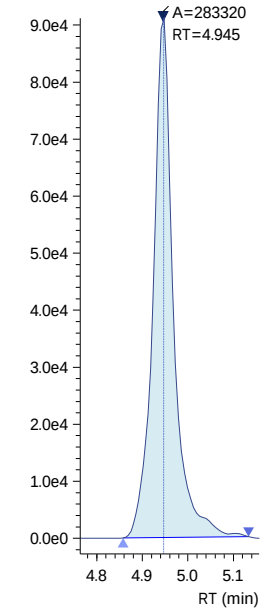
8_2-FTS_1
Conc 0.0009
R#1 0.00 (9.11)
Q 527.10>506.90 (-) 2.10e1



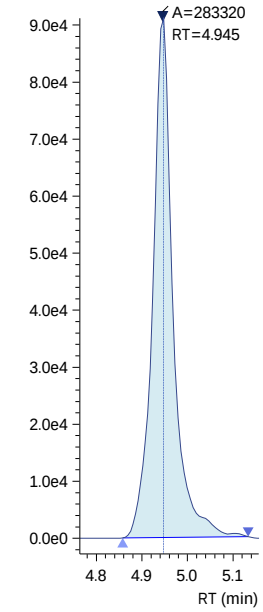
R1 527.20>487.00 (-) 0.00e0



8_2-FTS-13C
Conc 4.5582
Q 528.80>509.00 (-) 9.12e4

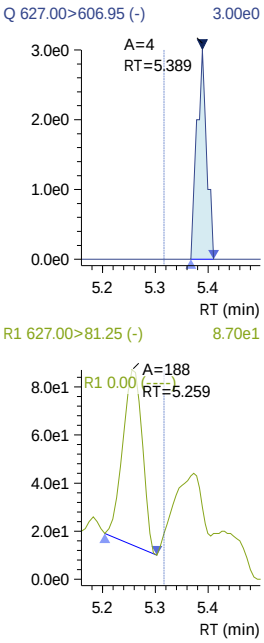


8_2-FTS-13C_IS
Conc 5.0000
ISTD 528.80>509.00 (-) 9.12e4

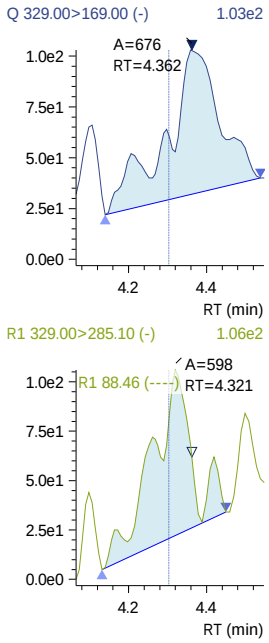


210819_030 (continued)

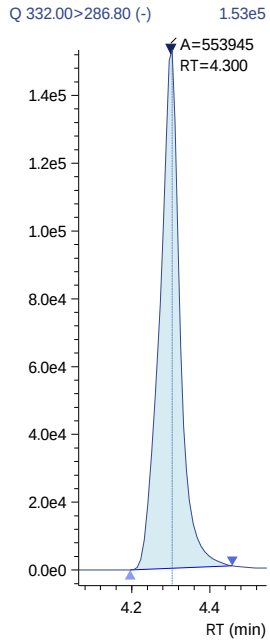
10_2-FtS_1
Conc 0.0001
R#1 0.00 (50.91)



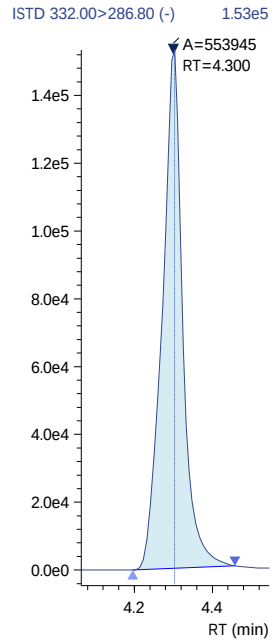
HPFO_DA
Conc 0.0066
R#1 88.46 (109.48)



HFPO_DA-13C
Conc 3.9856



HFPO_DA-13C_IS
Conc 5.0000



Insight Report
Retention Time/Signal:Noise Ratio Confirmation
Printed 8/20/2021 11:18:22

210819_031

Sample ID: Tech PFOA
Date Acquired: 8/19/2021 8:34:20 PM
Acquired by: System Administrator
Data File: 210819_031
Vial: 9 | Inj. Volume: 15.0000uL | Tray: 0

Name	m/z	Ref 1 m/z	Found RT	RT Diff	ISTD RT Diff	S/N	Ref 1 S/N	Flag ID
13C7-PFUnDA_IS	570.00>525.00	----	5.141	0.009	----	59	----	
PFBS_1	299.00>80.00	298.80>99.00	----	----	----	----	----	
PFBS-13C	301.80>80.00	----	4.028	-0.005	-1.113	(INF)	----	
PFBS-13C_IS	301.80>80.00	----	4.028	-0.005	----	(INF)	----	
PFPeS	349.00>99.00	349.00>79.95	----	----	----	----	----	
PFHxS_1	399.00>80.00	399.00>99.00	4.538	0.124	----	20	6	IRr
PFHxS-18O	402.70>84.05	----	----	----	----	----	----	
PFHxS-18O_IS	402.70>84.05	----	----	----	----	----	----	
PFHpS_1	449.00>80.15	449.00>99.20	4.593	0.012	----	(INF)	1	IRr
PFOS_1	499.00>80.00	499.00>99.00	4.715	-0.037	----	9	----	IRr, SN
PFOS-13C	502.80>80.05	----	----	----	----	----	----	
PFOS-13C_IS	502.80>80.05	----	----	----	----	----	----	
PFNS	549.00>99.00	549.00>79.95	----	----	----	----	----	
PFDS_1	599.00>79.90	599.00>99.10	----	----	----	----	----	
PFBA	213.00>169.10	----	----	----	----	----	----	
PFBA-13C	216.90>172.15	----	----	----	----	----	----	
PFBA-13C_IS	216.90>172.15	----	----	----	----	----	----	
PFPeA	263.05>219.10	----	3.854	-0.125	----	9	----	SN
PFPeA-13C	267.90>223.00	----	----	----	----	----	----	
PFPeA-13C_IS	267.90>223.00	----	----	----	----	----	----	
PFHxA	313.00>269.00	313.00>119.10	4.243	0.007	0.001	18	----	IRr
PFHxA-13C	314.90>270.10	----	4.242	0.006	-0.899	3	----	SN
PFHxA-13C_IS	314.90>270.10	----	4.242	0.006	----	3	----	SN
PFHpA	362.90>319.00	362.90>169.00	4.427	0.010	----	17	----	IRr
PFHpA-13C	366.90>322.10	----	----	----	----	----	----	
PFHpA-13C_IS	366.90>322.10	----	----	----	----	----	----	
PFOA	413.00>369.00	413.00>169.10	4.594	0.006	----	3638	960	
PFOA-13C	416.80>372.05	----	----	----	----	----	----	
PFOA-13C_IS	416.80>372.05	----	----	----	----	----	----	
PFNA	463.00>418.90	463.00>219.00	4.787	0.022	----	3	----	IRr, SN
PFNA-13C	467.80>423.00	----	----	----	----	----	----	
PFNA-13C_IS	467.80>423.00	----	----	----	----	----	----	
PFDA	513.00>468.80	513.00>219.10	4.954	0.005	----	29	----	IRr
PFDA-13C	514.80>469.95	----	----	----	----	----	----	
PFDA-13C_IS	514.80>469.95	----	----	----	----	----	----	
PFUnA	563.00>518.90	563.00>219.00	5.145	0.012	----	(INF)	----	IRr
PFUnA-13C	564.80>519.95	----	----	----	----	----	----	
PFUnA-13C_IS	564.80>519.95	----	----	----	----	----	----	
PFDoA	613.05>569.00	613.05>169.00	----	----	----	----	----	
PFDoA-13C	614.80>569.95	----	5.311	0.000	0.170	(INF)	----	
PFDoA-13C_IS	614.80>569.95	----	5.311	0.000	----	(INF)	----	
PFTrDA	663.00>618.90	662.90>169.00	5.479	0.003	-0.165	(INF)	----	IRr
PFTeDA	713.00>669.00	713.00>169.10	5.638	0.004	-0.006	5	----	IRr, SN
PFTeDA-13C	714.70>669.90	----	5.644	0.010	0.503	(INF)	----	
PFTeDA-13C_IS	714.70>669.90	----	5.644	0.010	----	(INF)	----	
FOSA	498.20>78.00	498.20>64.10	5.169	-0.062	----	9	----	IRr, SN
FOSA-13C	506.00>78.05	----	----	----	----	----	----	
FOSA-13C_IS	506.00>78.05	----	----	----	----	----	----	
N-MeFOSA	512.00>169.10	512.00>219.00	5.697	0.072	----	6	----	IRr, SN
N-MeFOSA-d3	514.90>168.90	----	----	----	----	----	----	
N-MeFOSA-d3_IS	514.90>168.90	----	----	----	----	----	----	

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SN - Software-calculated S/N ratio outside criteria due to non-target peaks or drift in noise calculation window. Analyst review of noise levels (excluding non-target peaks) in chromatogram indicates S/N ratio meets criteria.

210819_031 (continued)

(Table continued from previous page)

Name	m/z	Ref 1 m/z	Found RT	RT Diff	ISTD RT Diff	S/N	Ref 1 S/N	Flag ID
N-EtFOSA	526.90>169.10	526.90>219.00	5.771	0.010	----	4	----	IRr, SN
N-EtFOSA-d9	530.90>169.15	----	----	----	----	----	----	
N-EtFOSA-d9_IS	530.90>169.15	----	----	----	----	----	----	
N-MeFOSE	616.00>59.00	----	5.613	0.008	----	3	----	SN
N-MeFOSE-d7	622.70>59.10	----	----	----	----	----	----	
N-MeFOSE-d7_IS	622.70>59.10	----	----	----	----	----	----	
N-EtFOSE	630.00>58.90	----	----	----	----	----	----	
N-EtFOSE-d9	638.70>59.10	----	5.778	0.052	0.637	6	----	SN
N-EtFOSE-d9_IS	638.70>59.10	----	5.778	0.052	----	6	----	SN
N-MeFOSAA	570.20>419.00	570.20>512.00	5.081	0.033	----	(INF)	----	IRr
N-MeFOSAA-d3	572.80>419.05	----	----	----	----	----	----	
N-MeFOSAA-d3_IS	572.80>419.05	----	----	----	----	----	----	
N-EtFOSAA	584.20>418.95	584.20>526.10	----	----	----	----	----	
N-EtFOSAA-d5	588.80>419.00	----	----	----	----	----	----	
N-EtFOSAA-d5_IS	588.80>419.00	----	----	----	----	----	----	
4_2-FTS_1	327.00>307.05	327.00>81.10	4.381	0.171	----	5	5	IRr, SN
4_2-FTS-13C	328.80>309.05	----	----	----	----	----	----	
4_2-FTS-13C_IS	328.80>309.05	----	----	----	----	----	----	
6_2-FTS_1	427.00>407.00	427.00>80.90	----	----	----	----	----	
6_2-FTS-13C	428.90>409.00	----	----	----	----	----	----	
6_2-FTS-13C_IS	428.90>409.00	----	----	----	----	----	----	
8_2-FTS_1	527.10>506.90	527.20>487.00	----	----	----	----	----	
8_2-FTS-13C	528.80>509.00	----	----	----	----	----	----	
8_2-FTS-13C_IS	528.80>509.00	----	----	----	----	----	----	
10_2-FtS_1	627.00>606.95	627.00>81.25	----	----	----	----	----	
HPFO_DA	329.00>169.00	329.00>285.10	4.151	-0.152	----	58	----	IRr
HFPO_DA-13C	332.00>286.80	----	----	----	----	----	----	
HFPO_DA-13C_IS	332.00>286.80	----	----	----	----	----	----	

Flag ID key: IRr: Ion Ratio (Relative), SN: S/N

SN - Software-calculated S/N ratio outside criteria due to non-target peaks or drift in noise calculation window. Analyst review of noise levels (excluding non-target peaks) in chromatogram indicates S/N ratio meets criteria.

Insight Report
Ion Ratio Confirmation
Printed 8/20/2021 11:19:20

210819_031

Sample ID: Tech PFOA
Date Acquired: 8/19/2021 8:34:20 PM
Acquired by: System Administrator
Data File: 210819_031
Vial: 9 | Inj. Volume: 15.0000uL | Tray: 0

Name	m/z	Ref 1 m/z	Area	Ref 1 Measured	Ref 1 Actual Ratio	Ref 1 Set Ratio	Comment 1	Flag ID
13C7-PFUnDA_IS	570.00>525.00	----	2332	----	----	----		
PFBS_1	299.00>80.00	298.80>99.00	----	0	0.00	47.76	23.88-71.64	
PFBS-13C	301.80>80.00	----	29	----	----	----	0-0	
PFBS-13C_IS	301.80>80.00	----	29	----	----	----	0-0	
PFPeS	349.00>99.00	349.00>79.95	----	0	0.00	136.08	68.04 -204.13	
PFHxS_1	399.00>80.00	399.00>99.00	579	901	155.60	71.26	35.63 -106.89	IRr
PFHxS-18O	402.70>84.05	----	----	----	----	----	0-0	
PFHxS-18O_IS	402.70>84.05	----	----	----	----	----	0-0	
PFHpS_1	449.00>80.15	449.00>99.20	2075	213	10.27	53.84	26.92-80.76	IRr
PFOS_1	499.00>80.00	499.00>99.00	82	0	0.00	86.72	43.36 -130.08	IRr, SN
PFOS-13C	502.80>80.05	----	----	----	----	----	0-0	
PFOS-13C_IS	502.80>80.05	----	----	----	----	----	0-0	
PFNS	549.00>99.00	549.00>79.95	----	0	0.00	129.18	64.59 -193.78	
PFDS_1	599.00>79.90	599.00>99.10	----	0	0.00	90.77	45.38 -136.15	
PFBA	213.00>169.10	----	----	----	----	----		
PFBA-13C	216.90>172.15	----	----	----	----	----		
PFBA-13C_IS	216.90>172.15	----	----	----	----	----		
PFPeA	263.05>219.10	----	10521	----	----	----		SN
PFPeA-13C	267.90>223.00	----	----	----	----	----	0-0	
PFPeA-13C_IS	267.90>223.00	----	----	----	----	----	0-0	
PFHxA	313.00>269.00	313.00>119.10	4940	0	0.00	4.17	2.08-6.25	IRr
PFHxA-13C	314.90>270.10	----	635	----	----	----	0-0	SN
PFHxA-13C_IS	314.90>270.10	----	635	----	----	----	0-0	SN
PFHpA	362.90>319.00	362.90>169.00	19074	0	0.00	26.04	13.02-39.07	IRr
PFHpA-13C	366.90>322.10	----	----	----	----	----	0-0	
PFHpA-13C_IS	366.90>322.10	----	----	----	----	----	0-0	
PFOA	413.00>369.00	413.00>169.10	1053936	353843	33.57	30.35	15.18-45.53	
PFOA-13C	416.80>372.05	----	----	----	----	----	0-0	
PFOA-13C_IS	416.80>372.05	----	----	----	----	----	0-0	
PFNA	463.00>418.90	463.00>219.00	908	0	0.00	22.35	11.18-33.53	IRr, SN
PFNA-13C	467.80>423.00	----	----	----	----	----	0-0	
PFNA-13C_IS	467.80>423.00	----	----	----	----	----	0-0	
PFDA	513.00>468.80	513.00>219.10	786	0	0.00	18.73	9.36-28.09	IRr
PFDA-13C	514.80>469.95	----	----	----	----	----	0-0	
PFDA-13C_IS	514.80>469.95	----	----	----	----	----	0-0	
PFUnA	563.00>518.90	563.00>219.00	782	0	0.00	11.60	5.8-17.4	IRr
PFUnA-13C	564.80>519.95	----	----	----	----	----	0-0	
PFUnA-13C_IS	564.80>519.95	----	----	----	----	----	0-0	
PFDoA	613.05>569.00	613.05>169.00	----	0	0.00	15.11	7.55-22.66	
PFDoA-13C	614.80>569.95	----	1165	----	----	----	0-0	
PFDoA-13C_IS	614.80>569.95	----	1165	----	----	----	0-0	
PFTrDA	663.00>618.90	662.90>169.00	1029	0	0.00	14.19	7.09-21.28	IRr
PFTeDA	713.00>669.00	713.00>169.10	1452	0	0.00	14.98	7.49-22.46	IRr, SN
PFTeDA-13C	714.70>669.90	----	862	----	----	----	0-0	
PFTeDA-13C_IS	714.70>669.90	----	862	----	----	----	0-0	
FOSA	498.20>78.00	498.20>64.10	289	0	0.00	4.89	2.44-7.33	IRr, SN

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Comment 1 field specifies acceptance range for Ref 1 ratio.
IRr - Ion ratio outside criteria. Exceedances for results above the MDL to be "K" flagged in the analytical report.

Insight Report
Ion Ratio Confirmation
Printed 8/20/2021 11:19:20

210819_031 (continued)

(Table continued from previous page)

Name	m/z	Ref 1 m/z	Area	Ref 1 Measured	Ref 1 Actual Ratio	Ref 1 Set Ratio	Comment 1	Flag ID
FOSA-13C	506.00>78.05	----	----	----	----	----	0-0	
FOSA-13C_IS	506.00>78.05	----	----	----	----	----	0-0	
N-MeFOSA	512.00>169.10	512.00>219.00	1569	0	0.00	62.72	31.36-94.08	IRr, SN
N-MeFOSA-d3	514.90>168.90	----	----	----	----	----	0-0	
N-MeFOSA-d3_IS	514.90>168.90	----	----	----	----	----	0-0	
N-EtFOSA	526.90>169.10	526.90>219.00	570	0	0.00	63.35	31.68-95.03	IRr, SN
N-EtFOSA-d9	530.90>169.15	----	----	----	----	----	0-0	
N-EtFOSA-d9_IS	530.90>169.15	----	----	----	----	----	0-0	
N-MeFOSE	616.00>59.00	----	349	----	----	----		SN
N-MeFOSE-d7	622.70>59.10	----	----	----	----	----		
N-MeFOSE-d7_IS	622.70>59.10	----	----	----	----	----		
N-EtFOSE	630.00>58.90	----	----	----	----	----		
N-EtFOSE-d9	638.70>59.10	----	754	----	----	----	0-0	SN
N-EtFOSE-d9_IS	638.70>59.10	----	754	----	----	----	0-0	SN
N-MeFOSAA	570.20>419.00	570.20>512.00	196	0	0.00	35.26	17.63-52.88	IRr
N-MeFOSAA-d3	572.80>419.05	----	----	----	----	----	0-0	
N-MeFOSAA-d3 _IS	572.80>419.05	----	----	----	----	----	0-0	
N-EtFOSAA	584.20>418.95	584.20>526.10	----	0	0.00	77.25	38.62 -115.87	
N-EtFOSAA-d5	588.80>419.00	----	----	----	----	----	0-0	
N-EtFOSAA-d5_IS	588.80>419.00	----	----	----	----	----	0-0	
4_2-FTS_1	327.00>307.05	327.00>81.10	260	177	67.84	39.85	19.92-59.77	IRr, SN
4_2-FTS-13C	328.80>309.05	----	----	----	----	----	0-0	
4_2-FTS-13C_IS	328.80>309.05	----	----	----	----	----	0-0	
6_2-FTS_1	427.00>407.00	427.00>80.90	----	0	0.00	29.95	14.97-44.92	
6_2-FTS-13C	428.90>409.00	----	----	----	----	----	0-0	
6_2-FTS-13C_IS	428.90>409.00	----	----	----	----	----	0-0	
8_2-FTS_1	527.10>506.90	527.20>487.00	----	0	0.00	9.42	4.71-14.13	
8_2-FTS-13C	528.80>509.00	----	----	----	----	----	0-0	
8_2-FTS-13C_IS	528.80>509.00	----	----	----	----	----	0-0	
10_2-FtS_1	627.00>606.95	627.00>81.25	----	0	0.00	49.86	24.93-74.78	
HPFO_DA	329.00>169.00	329.00>285.10	461	0	0.00	101.52	50.76 -152.28	IRr
HFPO_DA-13C	332.00>286.80	----	----	----	----	----		
HFPO_DA-13C_IS	332.00>286.80	----	----	----	----	----		

Flag ID key: IRr: Ion Ratio (Relative), SN: S/N

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Comment 1 field specifies acceptance range for Ref 1 ratio.
IRr - Ion ratio outside criteria. Exceedances for results above the MDL to be "K" flagged in the analytical report.

Insight Report
Quantitation/Integration
Printed 8/20/2021 11:13:44

210819_031

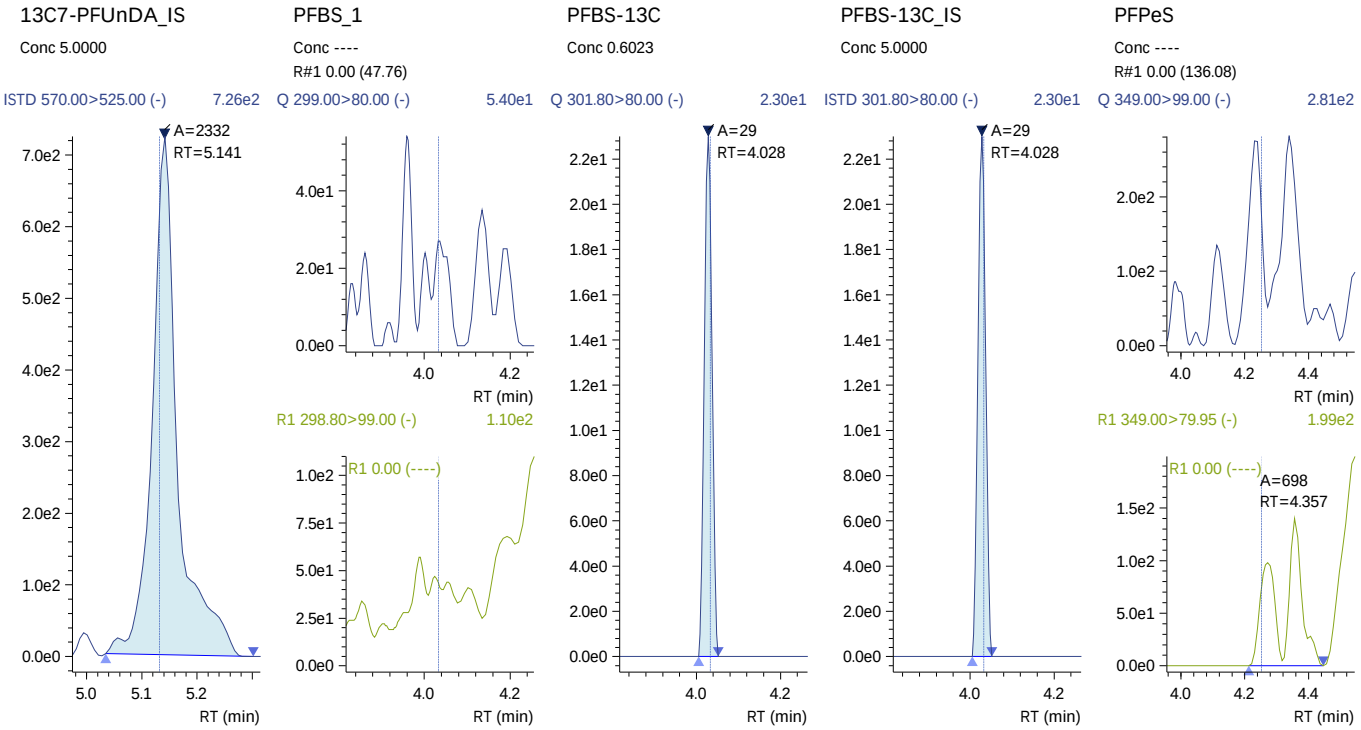
Sample ID: Tech PFOA
Date Acquired: 8/19/2021 8:34:20 PM
Acquired by: System Administrator
Data File: 210819_031
Vial: 9 | Inj. Volume: 15.0000uL | Tray: 0

Name	Mode ID	Found RT	Area	ISTD Area	ISTD Name	Std. Conc.	Conc.	Unit
13C7-PFUnDA_IS	Auto	5.141	2332	2332	----	----	5.0000	ng/mL
PFBS_1	ND(W/B)	----	----	29	PFBS-13C_IS	----	----	ng/mL
PFBS-13C	Auto	4.028	29	2332	13C7-PFUnDA_IS	----	0.6023	ng/mL
PFBS-13C_IS	Auto	4.028	29	29	----	----	5.0000	ng/mL
PFPeS	ND(W/B)	----	----	29	PFBS-13C_IS	----	----	ng/mL
PFHxS_1	Auto	4.538	579	----	PFHxS-18O_IS	----	0.0000	ng/mL
PFHxS-18O	ND(W/B)	----	----	2332	13C7-PFUnDA_IS	----	----	ng/mL
PFHxS-18O_IS	ND(W/B)	----	----	----	----	----	----	ng/mL
PFHpS_1	Auto	4.593	2075	----	PFHxS-18O_IS	----	0.0000	ng/mL
PFOS_1	Auto	4.715	82	----	PFOS-13C_IS	----	0.0000	ng/mL
PFOS-13C	ND(W/B)	----	----	2332	13C7-PFUnDA_IS	----	----	ng/mL
PFOS-13C_IS	ND(W/B)	----	----	----	----	----	----	ng/mL
PFNS	ND(W/B)	----	----	----	PFOS-13C_IS	----	----	ng/mL
PFDS_1	ND(W/B)	----	----	----	PFOS-13C_IS	----	----	ng/mL
PFBA	ND(W/B)	----	----	----	PFBA-13C_IS	----	----	ng/mL
PFBA-13C	ND(W/B)	----	----	2332	13C7-PFUnDA_IS	----	----	ng/mL
PFBA-13C_IS	ND(W/B)	----	----	----	----	----	----	ng/mL
PFPeA	Auto	3.854	10521	----	PFPeA-13C_IS	----	0.0000	ng/mL
PFPeA-13C	ND(W/B)	----	----	2332	13C7-PFUnDA_IS	----	----	ng/mL
PFPeA-13C_IS	ND(W/B)	----	----	----	----	----	----	ng/mL
PFHxA	Auto	4.243	4940	635	PFHxA-13C_IS	----	28.6937	ng/mL
PFHxA-13C	Auto	4.242	635	2332	13C7-PFUnDA_IS	----	1.8383	ng/mL
PFHxA-13C_IS	Auto	4.242	635	635	----	----	5.0000	ng/mL
PFHpA	Auto	4.427	19074	----	PFHpA-13C_IS	----	0.0000	ng/mL
PFHpA-13C	ND(W/B)	----	----	2332	13C7-PFUnDA_IS	----	----	ng/mL
PFHpA-13C_IS	ND(W/B)	----	----	----	----	----	----	ng/mL
PFOA	Auto	4.594	1053936	----	PFOA-13C_IS	----	0.0000	ng/mL
PFOA-13C	ND(W/B)	----	----	2332	13C7-PFUnDA_IS	----	----	ng/mL
PFOA-13C_IS	ND(W/B)	----	----	----	----	----	----	ng/mL
PFNA	Auto	4.787	908	----	PFNA-13C_IS	----	0.0000	ng/mL
PFNA-13C	ND(W/B)	----	----	2332	13C7-PFUnDA_IS	----	----	ng/mL
PFNA-13C_IS	ND(W/B)	----	----	----	----	----	----	ng/mL
PFDA	Auto	4.954	786	----	PFDA-13C_IS	----	0.0000	ng/mL
PFDA-13C	ND(W/B)	----	----	2332	13C7-PFUnDA_IS	----	----	ng/mL
PFDA-13C_IS	ND(W/B)	----	----	----	----	----	----	ng/mL
PFUnA	Auto	5.145	782	----	PFUnA-13C_IS	----	0.0000	ng/mL
PFUnA-13C	ND(W/B)	----	----	2332	13C7-PFUnDA_IS	----	----	ng/mL
PFUnA-13C_IS	ND(W/B)	----	----	----	----	----	----	ng/mL
PFDoA	ND(W/B)	----	----	1165	PFDoA-13C_IS	----	----	ng/mL
PFDoA-13C	Auto	5.311	1165	2332	13C7-PFUnDA_IS	----	3.6244	ng/mL
PFDoA-13C_IS	Auto	5.311	1165	1165	----	----	5.0000	ng/mL
PFTrDA	Auto	5.479	1029	862	PFTeDA-13C_IS	----	4.0220	ng/mL
PFTeDA	Auto	5.638	1452	862	PFTeDA-13C_IS	----	7.4932	ng/mL
PFTeDA-13C	Auto	5.644	862	2332	13C7-PFUnDA_IS	----	3.9606	ng/mL
PFTeDA-13C_IS	Auto	5.644	862	862	----	----	5.0000	ng/mL
FOSA	Auto	5.169	289	----	FOSA-13C_IS	----	0.0000	ng/mL
FOSA-13C	ND(W/B)	----	----	2332	13C7-PFUnDA_IS	----	----	ng/mL
FOSA-13C_IS	ND(W/B)	----	----	----	----	----	----	ng/mL
N-MeFOSA	Auto	5.697	1569	----	N-MeFOSA-d3_IS	----	0.0000	ng/mL
N-MeFOSA-d3	ND(W/B)	----	----	2332	13C7-PFUnDA_IS	----	----	ng/mL
N-MeFOSA-d3_IS	ND(W/B)	----	----	----	----	----	----	ng/mL
N-EtFOSA	Auto	5.771	570	----	N-EtFOSA-d9_IS	----	0.0000	ng/mL
N-EtFOSA-d9	ND(W/B)	----	----	2332	13C7-PFUnDA_IS	----	----	ng/mL
N-EtFOSA-d9_IS	ND(W/B)	----	----	----	----	----	----	ng/mL

210819_031 (continued)

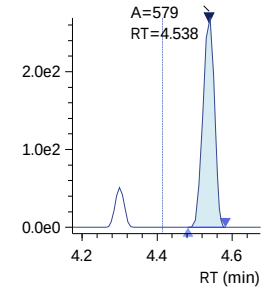
(Table continued from previous page)

Name	Mode ID	Found RT	Area	ISTD Area	ISTD Name	Std. Conc.	Conc.	Unit
N-MeFOSE	Auto	5.613	349	----	N-MeFOSE-d7_IS	----	0.0000	ng/mL
N-MeFOSE-d7	ND(W/B)	----	----	2332	13C7-PFUnDA_IS	----	----	ng/mL
N-MeFOSE-d7_IS	ND(W/B)	----	----	----	----	----	----	ng/mL
N-EtFOSE	ND(W/B)	----	----	754	N-EtFOSE-d9_IS	----	----	ng/mL
N-EtFOSE-d9	Auto	5.778	754	2332	13C7-PFUnDA_IS	----	22.6167	ng/mL
N-EtFOSE-d9_IS	Auto	5.778	754	754	----	----	5.0000	ng/mL
N-MeFOSAA	Auto	5.081	196	----	N-MeFOSAA-d3_IS	----	0.0000	ng/mL
N-MeFOSAA-d3	ND(W/B)	----	----	2332	13C7-PFUnDA_IS	----	----	ng/mL
N-MeFOSAA-d3_IS	ND(W/B)	----	----	----	----	----	----	ng/mL
N-EtFOSAA	ND(W/B)	----	----	----	N-EtFOSAA-d5_IS	----	----	ng/mL
N-EtFOSAA-d5	ND(W/B)	----	----	2332	13C7-PFUnDA_IS	----	----	ng/mL
N-EtFOSAA-d5_IS	ND(W/B)	----	----	----	----	----	----	ng/mL
4_2-FTS_1	Auto	4.381	260	----	4_2-FTS-13C_IS	----	0.0000	ng/mL
4_2-FTS-13C	ND(W/B)	----	----	2332	13C7-PFUnDA_IS	----	----	ng/mL
4_2-FTS-13C_IS	ND(W/B)	----	----	----	----	----	----	ng/mL
6_2-FTS_1	ND(W/B)	----	----	----	6_2-FTS-13C_IS	----	----	ng/mL
6_2-FTS-13C	ND(W/B)	----	----	2332	13C7-PFUnDA_IS	----	----	ng/mL
6_2-FTS-13C_IS	ND(W/B)	----	----	----	----	----	----	ng/mL
8_2-FTS_1	ND(W/B)	----	----	----	8_2-FTS-13C_IS	----	----	ng/mL
8_2-FTS-13C	ND(W/B)	----	----	2332	13C7-PFUnDA_IS	----	----	ng/mL
8_2-FTS-13C_IS	ND(W/B)	----	----	----	----	----	----	ng/mL
10_2-FtS_1	ND(W/B)	----	----	----	8_2-FTS-13C_IS	----	----	ng/mL
HPFO_DA	Auto	4.151	461	----	HFPO_DA-13C_IS	----	0.0000	ng/mL
HFPO_DA-13C	ND(W/B)	----	----	2332	13C7-PFUnDA_IS	----	----	ng/mL
HFPO_DA-13C_IS	ND(W/B)	----	----	----	----	----	----	ng/mL

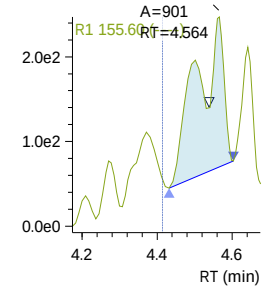


210819_031 (continued)

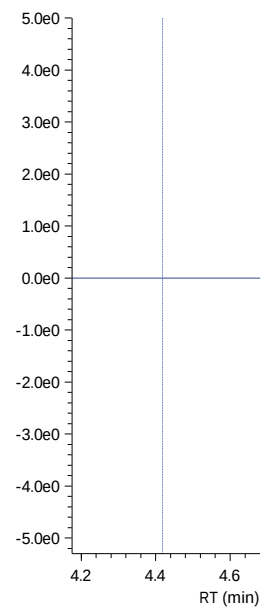
PFHxS_1
Conc 0.0000
R#1 155.60 (71.26)
Q 399.00>80.00 (-) 2.69e2



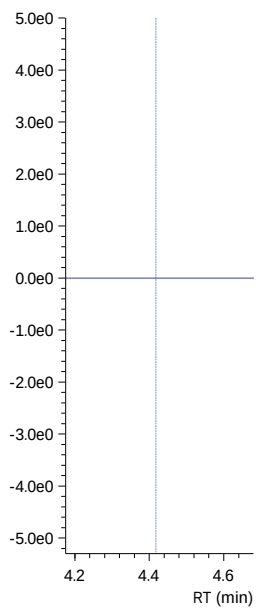
R1 399.00>99.00 (-) 2.47e2



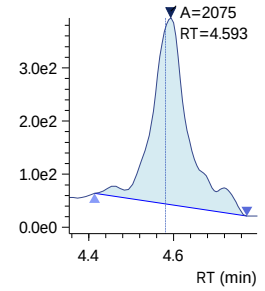
PFHxS-18O
Conc ----
Q 402.70>84.05 (-) 0.00e0



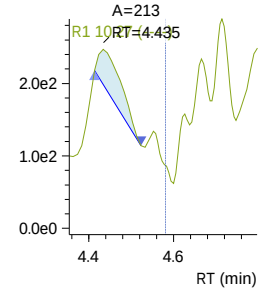
PFHxS-18O_IS
Conc ----
ISTD 402.70>84.05 (-) 0.00e0



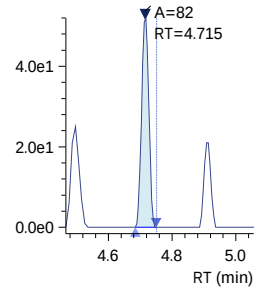
PFHpS_1
Conc 0.0000
R#1 10.27 (53.84)
Q 449.00>80.15 (-) 3.94e2



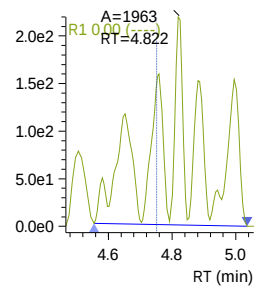
R1 449.00>99.20 (-) 2.89e2



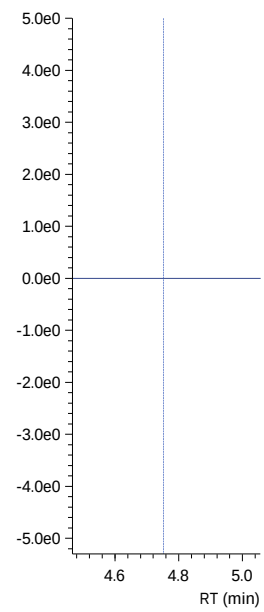
PFOS_1
Conc 0.0000
R#1 0.00 (86.72)
Q 499.00>80.00 (-) 5.20e1



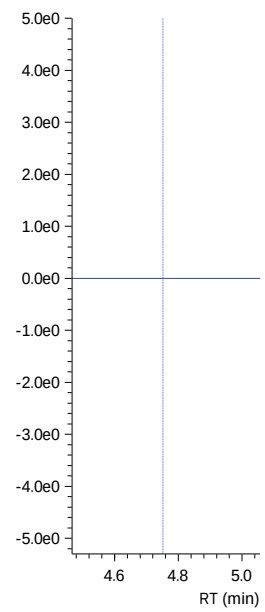
R1 499.00>99.00 (-) 2.20e2



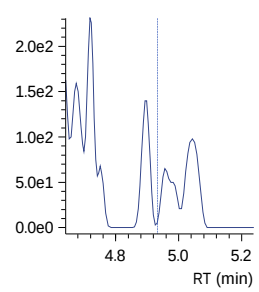
PFOS-13C
Conc ----
Q 502.80>80.05 (-) 0.00e0



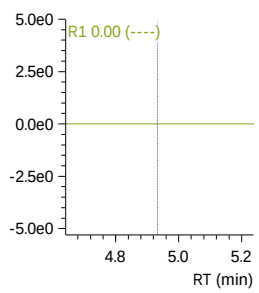
PFOS-13C_IS
Conc ----
ISTD 502.80>80.05 (-) 0.00e0



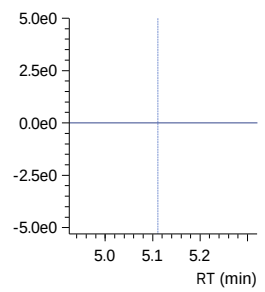
PFNS
Conc ----
R#1 0.00 (129.18)
Q 549.00>99.00 (-) 2.31e2



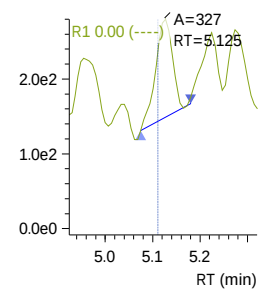
R1 549.00>79.95 (-) 0.00e0



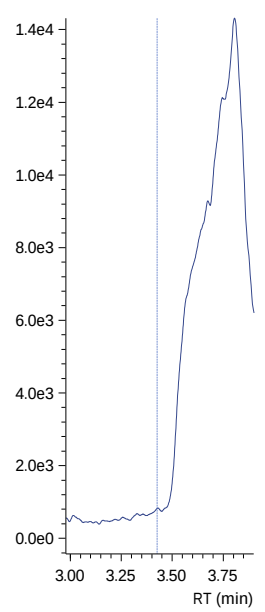
PFDS_1
Conc ----
R#1 0.00 (90.77)
Q 599.00>79.90 (-) 0.00e0



R1 599.00>99.10 (-) 2.80e2

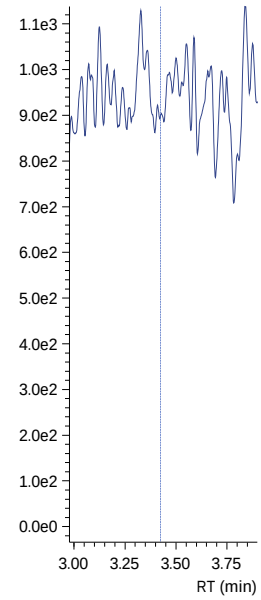


PFBA
Conc ----
Q 213.00>169.10 (-) 1.43e4

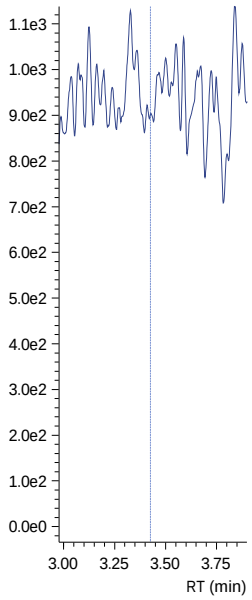


210819_031 (continued)

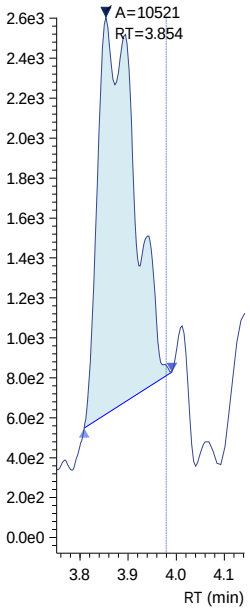
PFBA-13C
Conc ----
Q 216.90>172.15 (-) 1.14e3



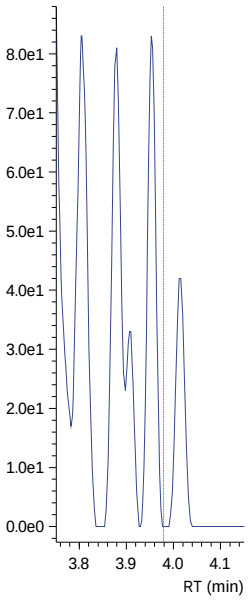
PFBA-13C_IS
Conc ----
ISTD 216.90>172.15 (-) 1.14e3



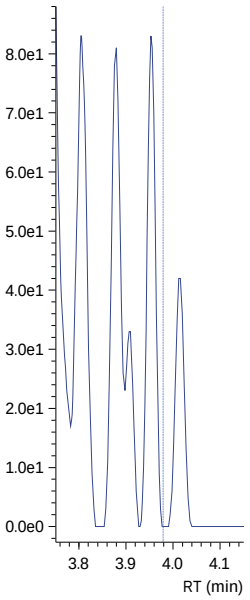
PFPeA
Conc 0.0000
Q 263.05>219.10 (-) 2.60e3



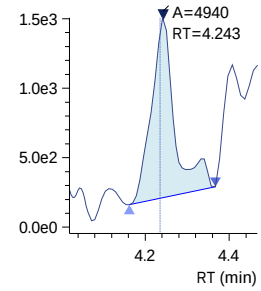
PFPeA-13C
Conc ----
Q 267.90>223.00 (-) 8.80e1



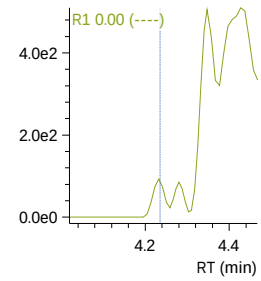
PFPeA-13C_IS
Conc ----
ISTD 267.90>223.00 (-) 8.80e1



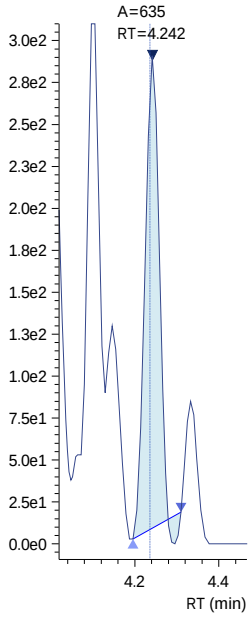
PFHxA
Conc 28.6937
R#1 0.00 (4.17)
Q 313.00>269.00 (-) 1.51e3



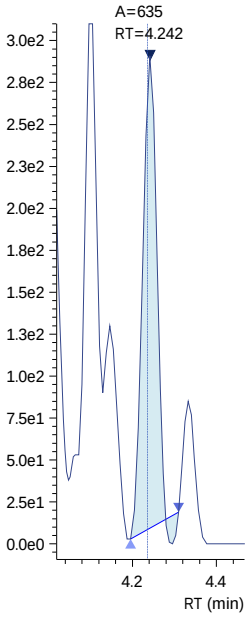
R1 313.00>119.10 (-) 5.10e2



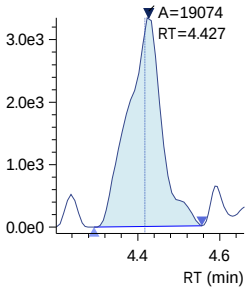
PFHxA-13C
Conc 1.8383
Q 314.90>270.10 (-) 3.10e2



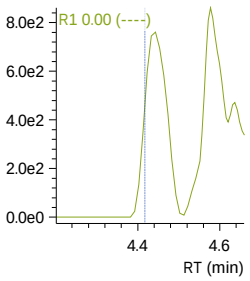
PFHxA-13C_IS
Conc 5.0000
ISTD 314.90>270.10 (-) 3.10e2



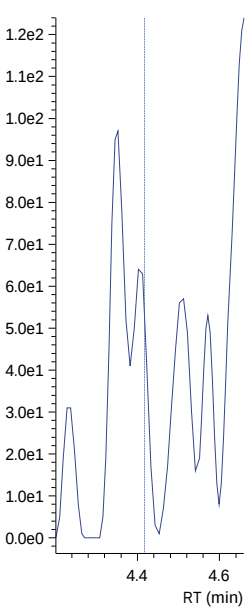
PFHpA
Conc 0.0000
R#1 0.00 (26.04)
Q 362.90>319.00 (-) 3.35e3



R1 362.90>169.00 (-) 8.61e2

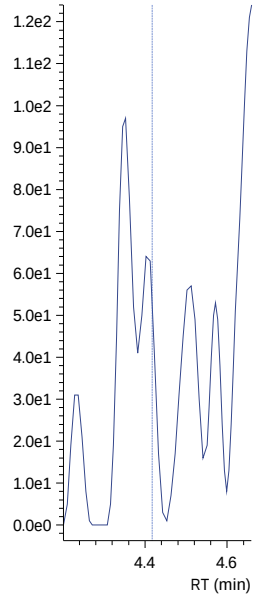


PFHpA-13C
Conc ----
Q 366.90>322.10 (-) 1.24e2

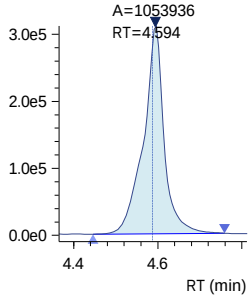


210819_031 (continued)

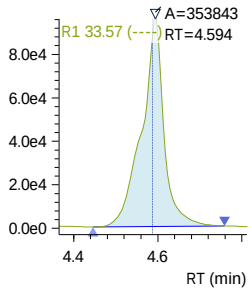
PFHpA-13C_IS
Conc ----
ISTD 366.90>322.10 (-) 1.24e2



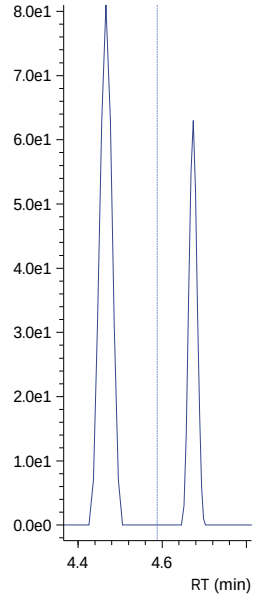
PFOA
Conc 0.0000
R#1 33.57 (30.35)
Q 413.00>369.00 (-) 3.13e5



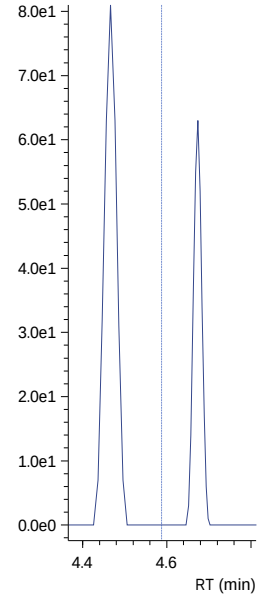
R1 413.00>169.10 (-) 9.63e4



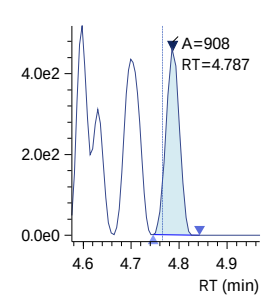
PFOA-13C
Conc ----
Q 416.80>372.05 (-) 8.10e1



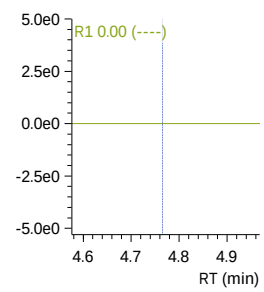
PFOA-13C_IS
Conc ----
ISTD 416.80>372.05 (-) 8.10e1



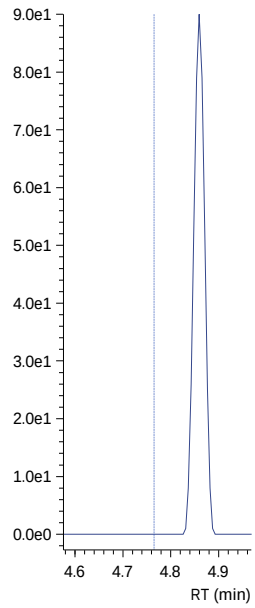
PFNA
Conc 0.0000
R#1 0.00 (22.35)
Q 463.00>418.90 (-) 5.18e2



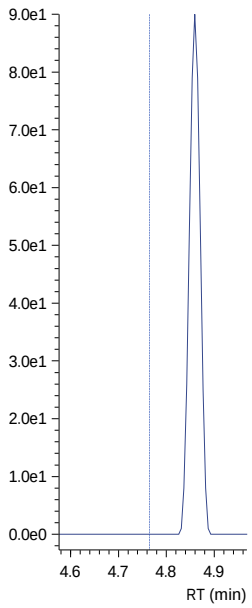
R1 463.00>219.00 (-) 0.00e0



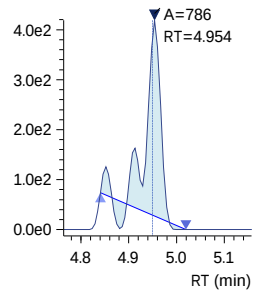
PFNA-13C
Conc ----
Q 467.80>423.00 (-) 9.00e1



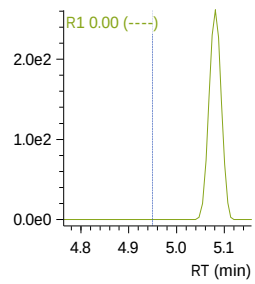
PFNA-13C_IS
Conc ----
ISTD 467.80>423.00 (-) 9.00e1



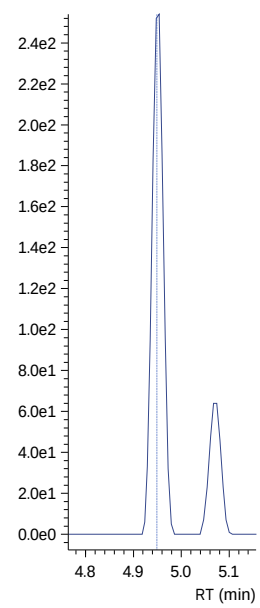
PFDA
Conc 0.0000
R#1 0.00 (18.73)
Q 513.00>468.80 (-) 4.19e2



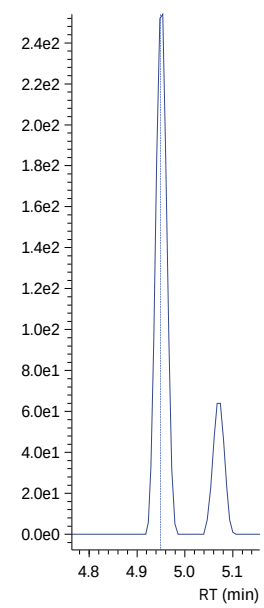
R1 513.00>219.10 (-) 2.61e2



PFDA-13C
Conc ----
Q 514.80>469.95 (-) 2.54e2

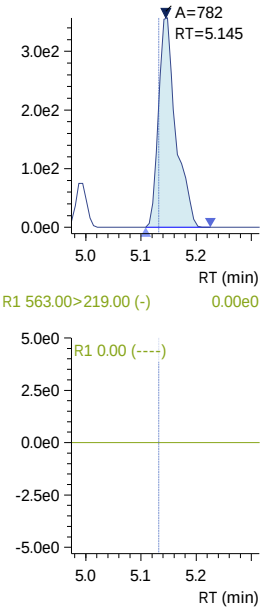


PFDA-13C_IS
Conc ----
ISTD 514.80>469.95 (-) 2.54e2

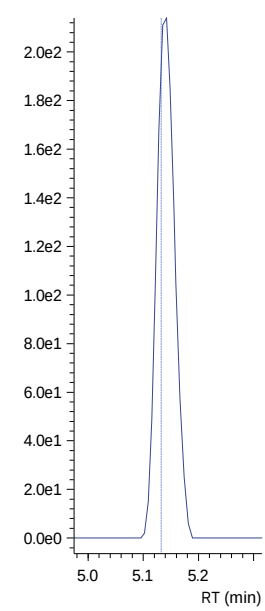


210819_031 (continued)

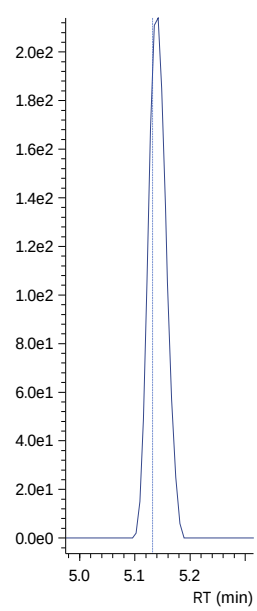
PFUnA
Conc 0.0000
R#1 0.00 (11.60)
Q 563.00>518.90 (-) 3.57e2
R1 563.00>219.00 (-) 0.00e0



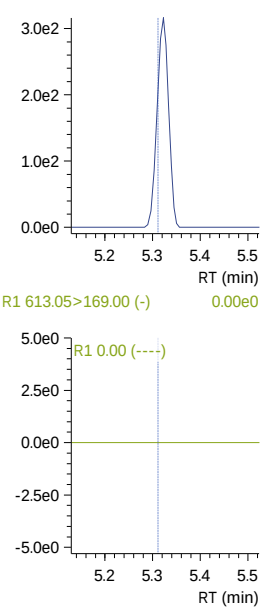
PFUnA-13C
Conc ----
Q 564.80>519.95 (-) 2.14e2



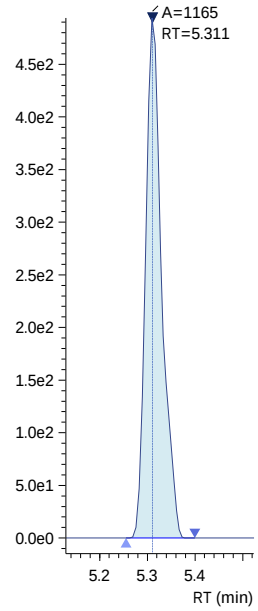
PFUnA-13C_IS
Conc ----
ISTD 564.80>519.95 (-) 2.14e2



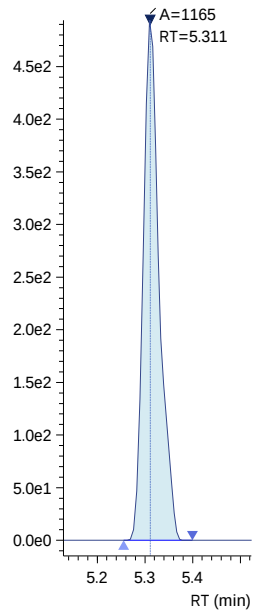
PFDoA
Conc ----
R#1 0.00 (15.11)
Q 613.05>569.00 (-) 3.16e2
R1 613.05>169.00 (-) 0.00e0



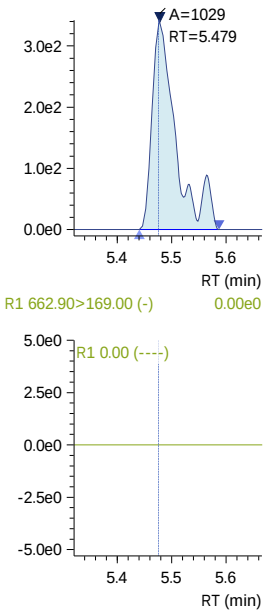
PFDoA-13C
Conc 3.6244
Q 614.80>569.95 (-) 4.94e2



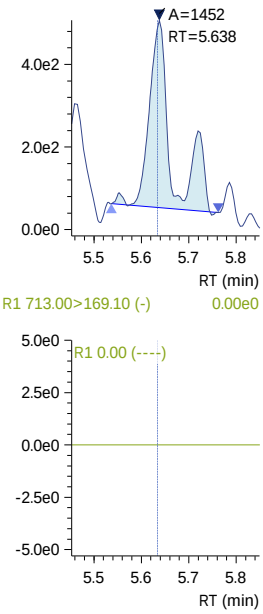
PFDoA-13C_IS
Conc 5.0000
ISTD 614.80>569.95 (-) 4.94e2



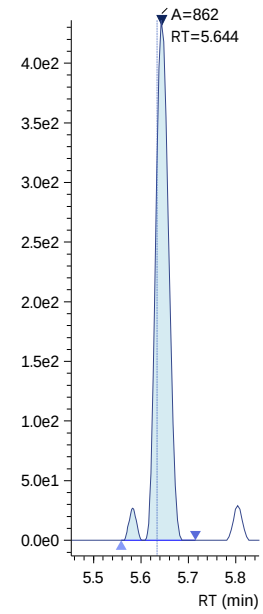
PFTrDA
Conc 4.0220
R#1 0.00 (14.19)
Q 663.00>618.90 (-) 3.42e2
R1 662.90>169.00 (-) 0.00e0



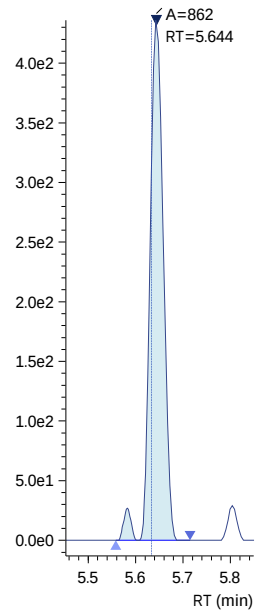
PFTeDA
Conc 7.4932
R#1 0.00 (14.98)
Q 713.00>669.00 (-) 5.07e2
R1 713.00>169.10 (-) 0.00e0



PFTeDA-13C
Conc 3.9606
Q 714.70>669.90 (-) 4.36e2

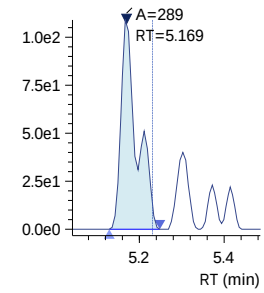


PFTeDA-13C_IS
Conc 5.0000
ISTD 714.70>669.90 (-) 4.36e2

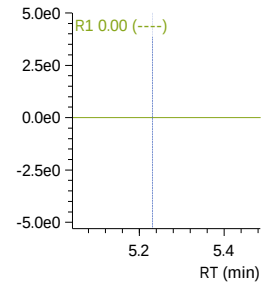


210819_031 (continued)

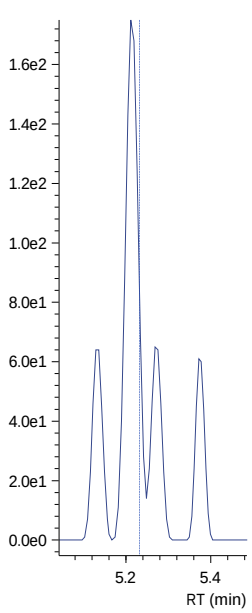
FOSA
Conc 0.0000
R#1 0.00 (4.89)
Q 498.20>78.00 (-) 1.09e2



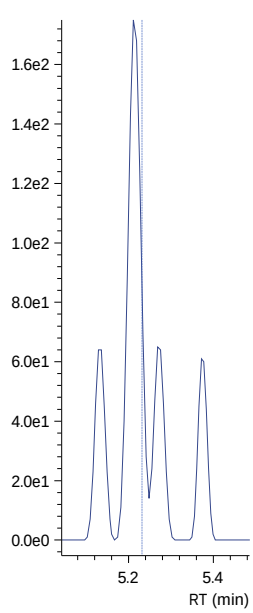
R1 498.20>64.10 (-) 0.00e0



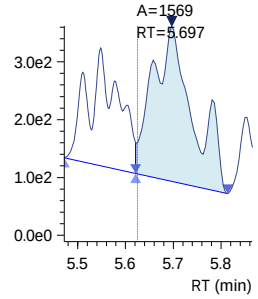
FOSA-13C
Conc ----
Q 506.00>78.05 (-) 1.75e2



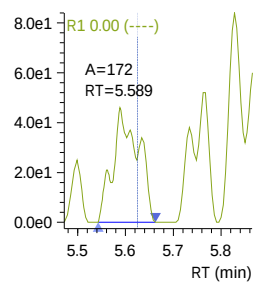
FOSA-13C_IS
Conc ----
ISTD 506.00>78.05 (-) 1.75e2



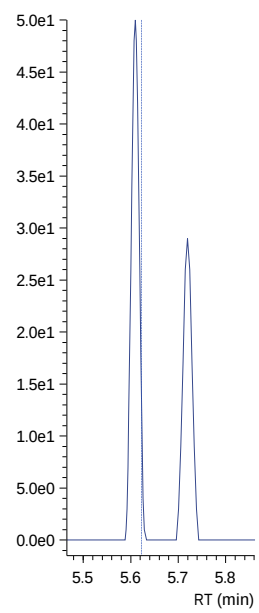
N-MeFOSA
Conc 0.0000
R#1 0.00 (62.72)
Q 512.00>169.10 (-) 3.62e2



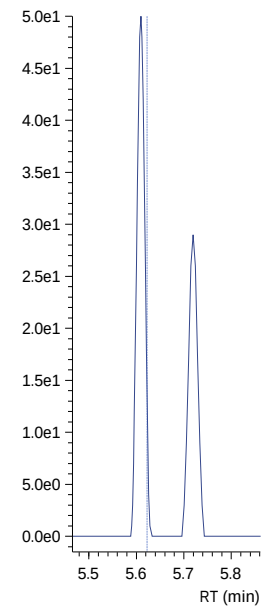
R1 512.00>219.00 (-) 8.40e1



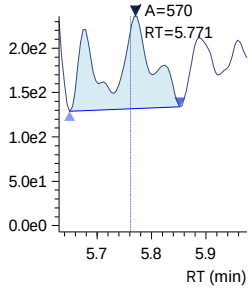
N-MeFOSA-d3
Conc ----
Q 514.90>168.90 (-) 5.00e1



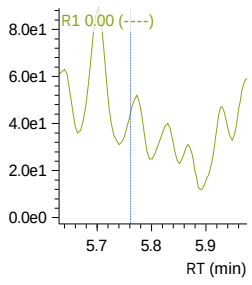
N-MeFOSA-d3_IS
Conc ----
ISTD 514.90>168.90 (-) 5.00e1



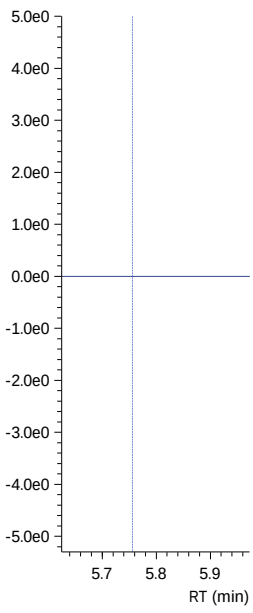
N-EtFOSA
Conc 0.0000
R#1 0.00 (63.35)
Q 526.90>169.10 (-) 2.36e2



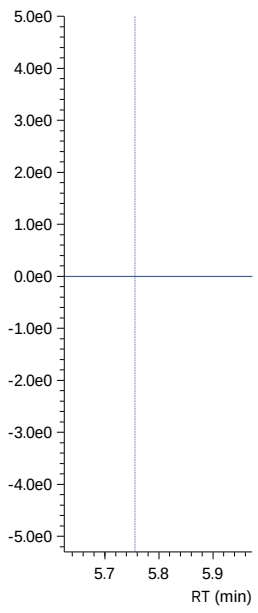
R1 526.90>219.00 (-) 8.90e1



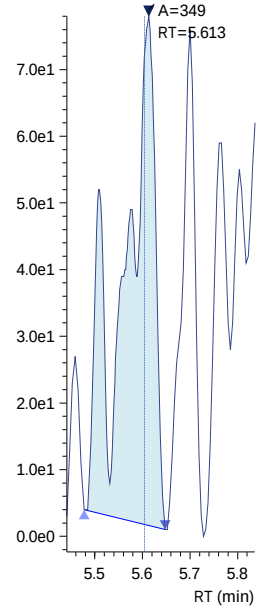
N-EtFOSA-d9
Conc ----
Q 530.90>169.15 (-) 0.00e0



N-EtFOSA-d9_IS
Conc ----
ISTD 530.90>169.15 (-) 0.00e0

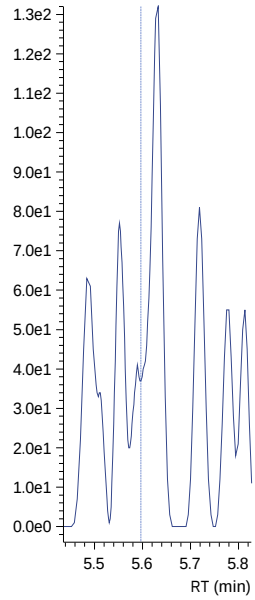


N-MeFOSE
Conc 0.0000
Q 616.00>59.00 (-) 7.80e1

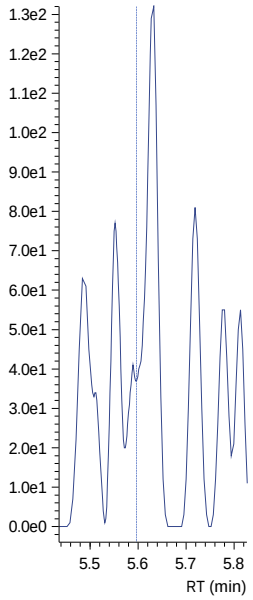


210819_031 (continued)

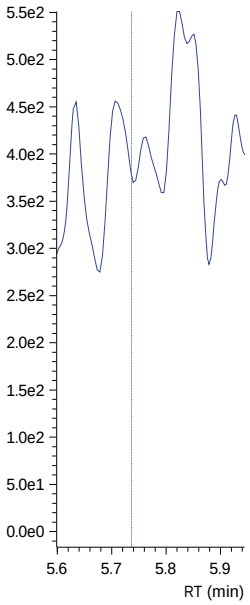
N-MeFOSE-d7
Conc ----
Q 622.70>59.10 (-) 1.32e2



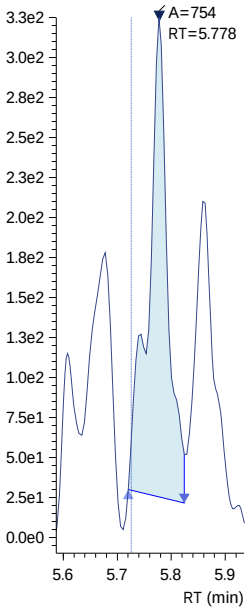
N-MeFOSE-d7_IS
Conc ----
ISTD 622.70>59.10 (-) 1.32e2



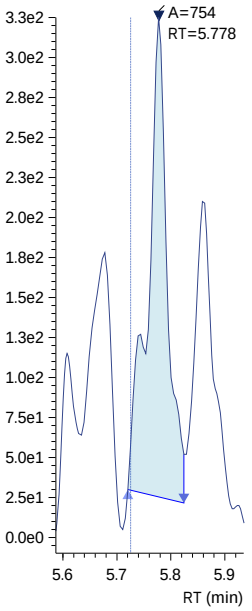
N-EtFOSE
Conc ----
Q 630.00>58.90 (-) 5.51e2



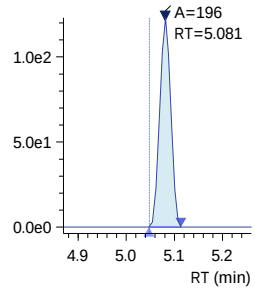
N-EtFOSE-d9
Conc 22.6167
Q 638.70>59.10 (-) 3.25e2



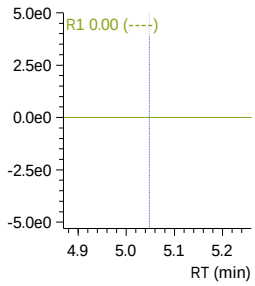
N-EtFOSE-d9_IS
Conc 5.0000
ISTD 638.70>59.10 (-) 3.25e2



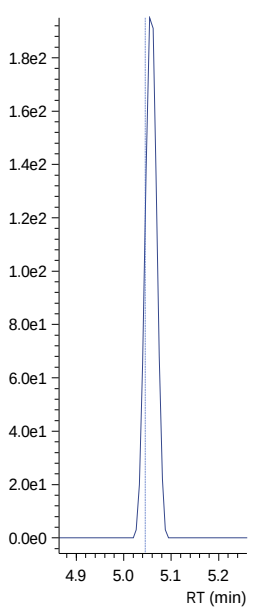
N-MeFOSAA
Conc 0.0000
R#1 0.00 (35.26)
Q 570.20>419.00 (-) 1.23e2



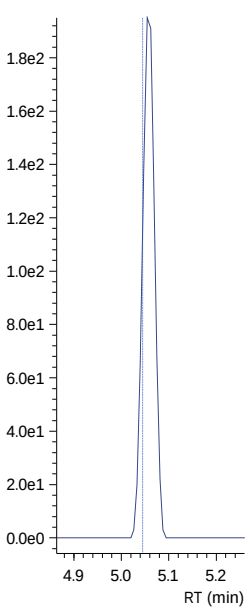
R1 570.20>512.00 (-) 0.00e0



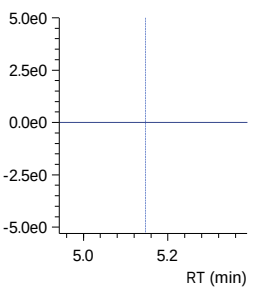
N-MeFOSAA-d3
Conc ----
Q 572.80>419.05 (-) 1.95e2



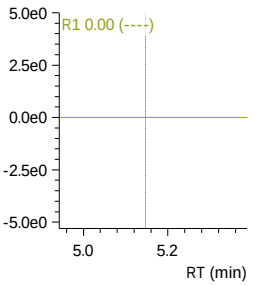
N-MeFOSAA-d3_IS
Conc ----
ISTD 572.80>419.05 (-) 1.95e2



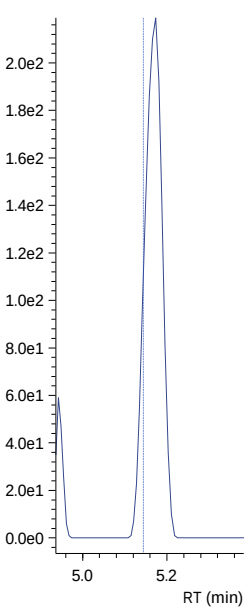
N-EtFOSAA
Conc ----
R#1 0.00 (77.25)
Q 584.20>418.95 (-) 0.00e0



R1 584.20>526.10 (-) 0.00e0

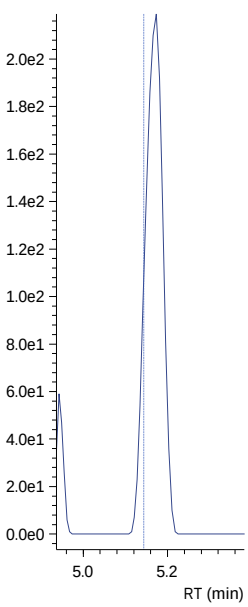


N-EtFOSAA-d5
Conc ----
Q 588.80>419.00 (-) 2.19e2

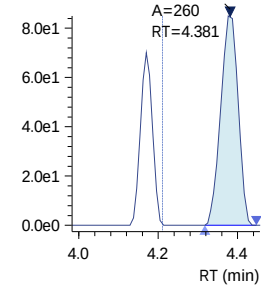


210819_031 (continued)

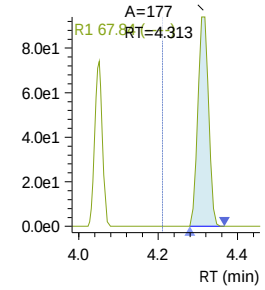
N-EtFOSAA-d5_IS
Conc ----
ISTD 588.80>419.00 (-) 2.19e2



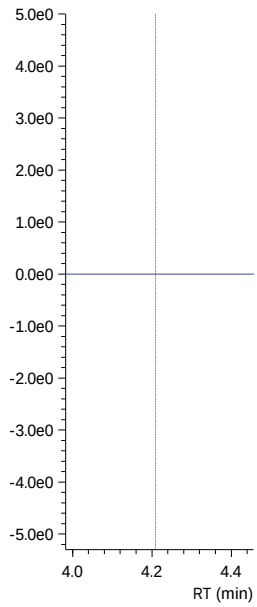
4_2-FTS_1
Conc 0.0000
R#1 67.84 (39.85)
Q 327.00>307.05 (-) 8.50e1



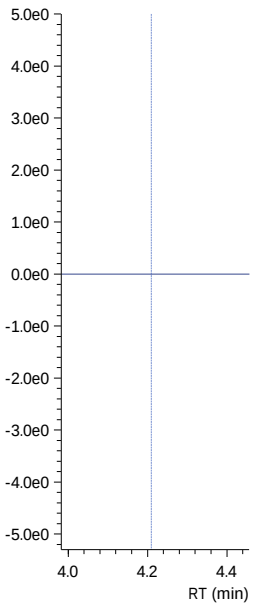
R1 327.00>81.10 (-) 9.40e1



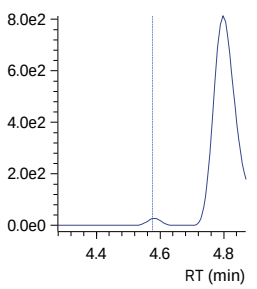
4_2-FTS-13C
Conc ----
Q 328.80>309.05 (-) 0.00e0



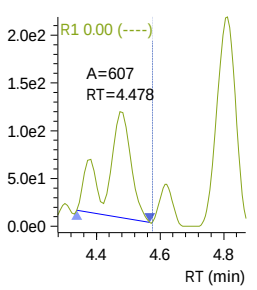
4_2-FTS-13C_IS
Conc ----
ISTD 328.80>309.05 (-) 0.00e0



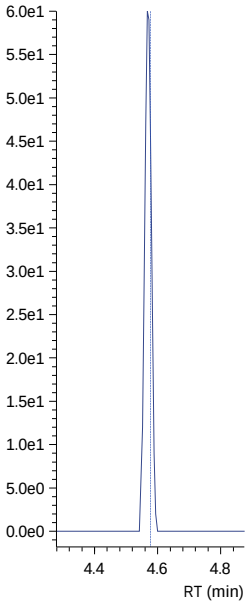
6_2-FTS_1
Conc ----
R#1 0.00 (29.95)
Q 427.00>407.00 (-) 8.13e2



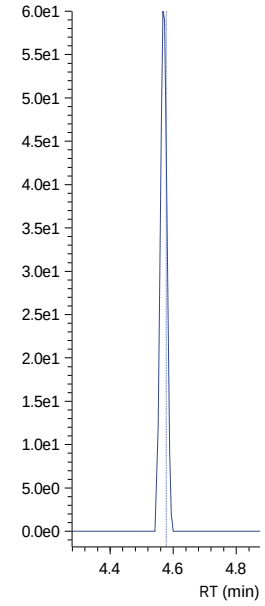
R1 427.00>80.90 (-) 2.19e2



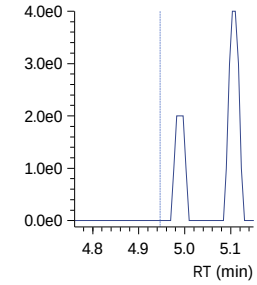
6_2-FTS-13C
Conc ----
Q 428.90>409.00 (-) 6.00e1



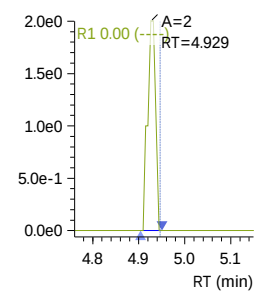
6_2-FTS-13C_IS
Conc ----
ISTD 428.90>409.00 (-) 6.00e1



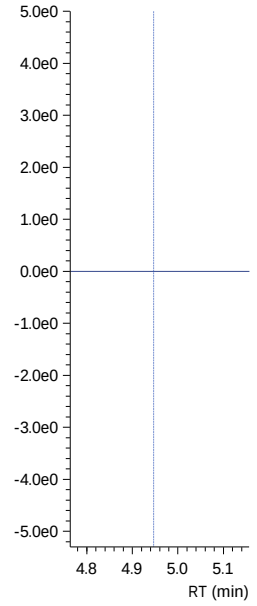
8_2-FTS_1
Conc ----
R#1 0.00 (9.42)
Q 527.10>506.90 (-) 4.00e0



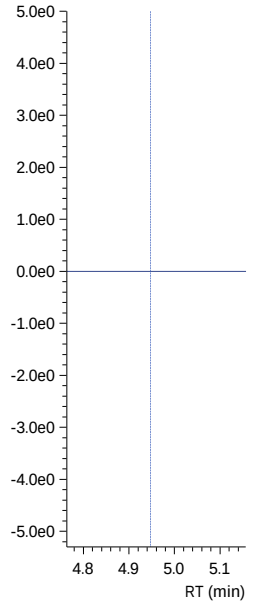
R1 527.20>487.00 (-) 2.00e0



8_2-FTS-13C
Conc ----
Q 528.80>509.00 (-) 0.00e0

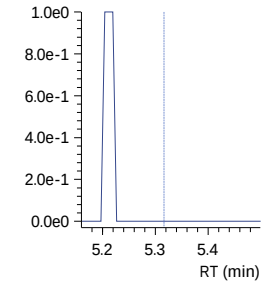


8_2-FTS-13C_IS
Conc ----
ISTD 528.80>509.00 (-) 0.00e0

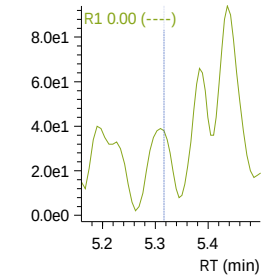


210819_031 (continued)

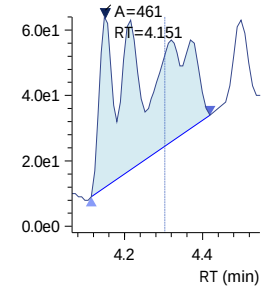
10_2-FtS_1
Conc ----
R#1 0.00 (49.86)
Q 627.00>606.95 (-) 1.00e0



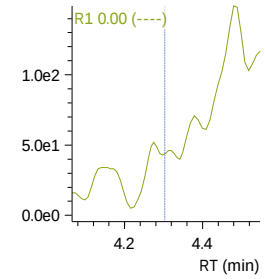
R1 627.00>81.25 (-) 9.40e1



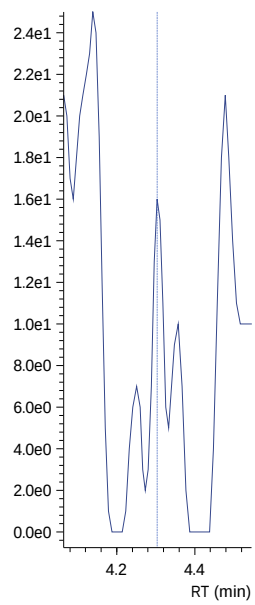
HPFO_DA
Conc 0.0000
R#1 0.00 (101.52)
Q 329.00>169.00 (-) 6.40e1



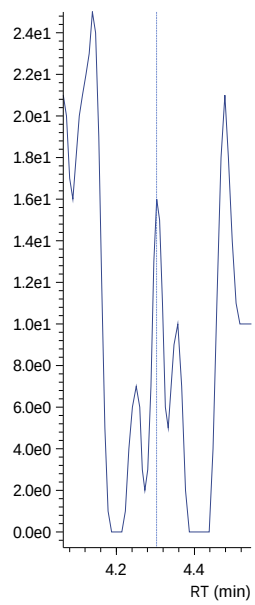
R1 329.00>285.10 (-) 1.49e2



HFPO_DA-13C
Conc ----
Q 332.00>286.80 (-) 2.50e1



HFPO_DA-13C_IS
Conc ----
ISTD 332.00>286.80 (-) 2.50e1

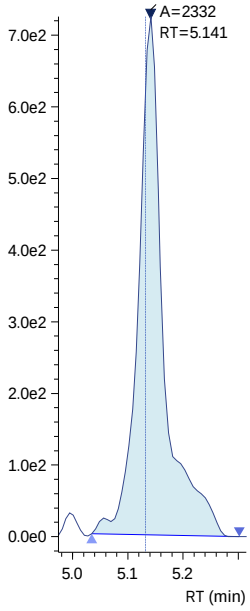


Insight Report
Before Manual Integration
Printed 8/20/2021 09:47:37

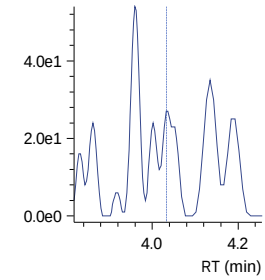
210819_031

Sample ID: Tech PFOA
Date Acquired: 8/19/2021 8:34:20 PM
Acquired by: System Administrator
Data File: 210819_031
Vial: 9 | Inj. Volume: 15.0000uL | Tray: 0

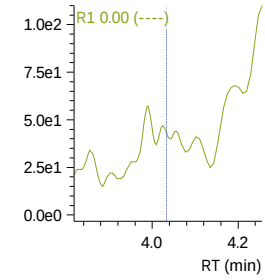
13C7-PFUnDA_IS
Conc 5.0000
ISTD 570.00>525.00 (-) 7.26e2



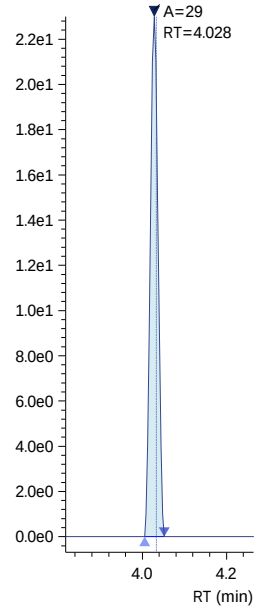
PFBS_1
Conc ----
R#1 0.00 (48.11)
Q 299.00>80.00 (-) 5.40e1



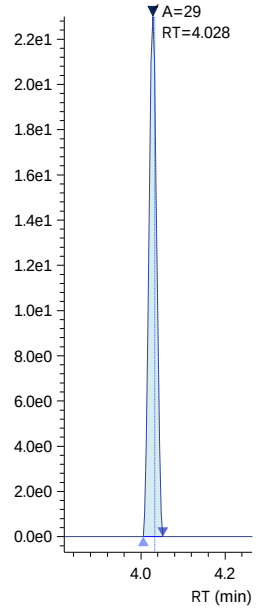
R1 298.80>99.00 (-) 1.10e2



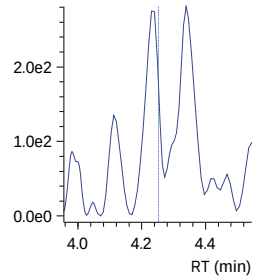
PFBS-13C
Conc 0.6026
Q 301.80>80.00 (-) 2.30e1



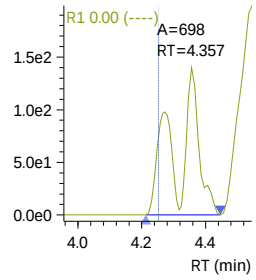
PFBS-13C_IS
Conc 5.0000
ISTD 301.80>80.00 (-) 2.30e1



PFPeS
Conc ----
R#1 0.00 (149.27)
Q 349.00>99.00 (-) 2.81e2



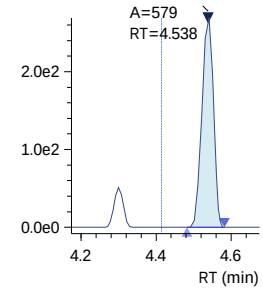
R1 349.00>79.95 (-) 1.99e2



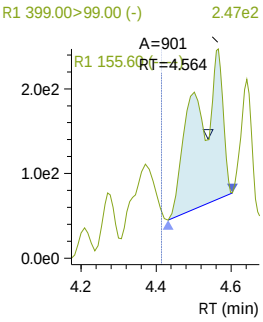
Insight Report
Before Manual Integration
Printed 8/20/2021 09:47:37

210819_031 (continued)

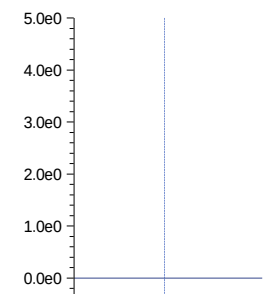
PFHxS_1
Conc 0.0000
R#1 155.60 (83.10)
Q 399.00>80.00 (-) 2.69e2



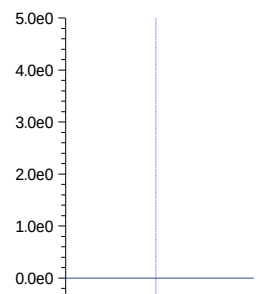
R1 399.00>99.00 (-) 2.47e2



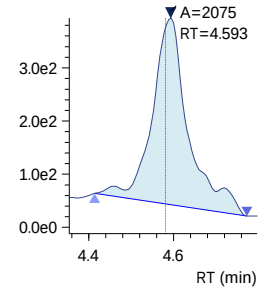
PFHxS-18O
Conc ----
Q 402.70>84.05 (-) 0.00e0



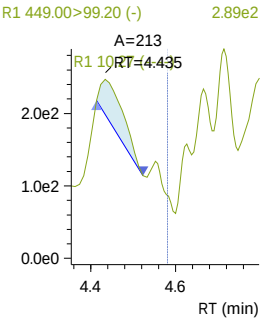
PFHxS-18O_IS
Conc ----
ISTD 402.70>84.05 (-) 0.00e0



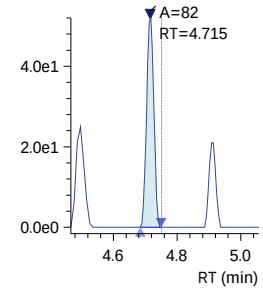
PFHpS_1
Conc 0.0000
R#1 10.27 (58.24)
Q 449.00>80.15 (-) 3.94e2



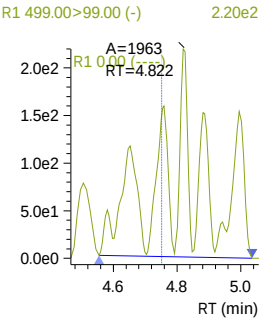
R1 449.00>99.20 (-) 2.89e2



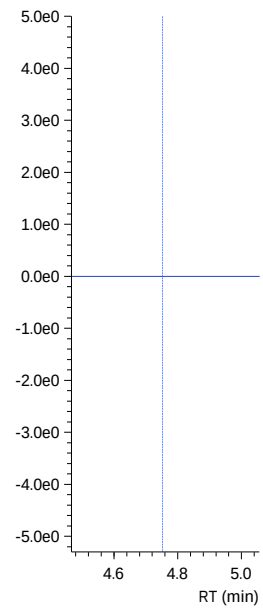
PFOS_1
Conc 0.0000
R#1 0.00 (87.63)
Q 499.00>80.00 (-) 5.20e1



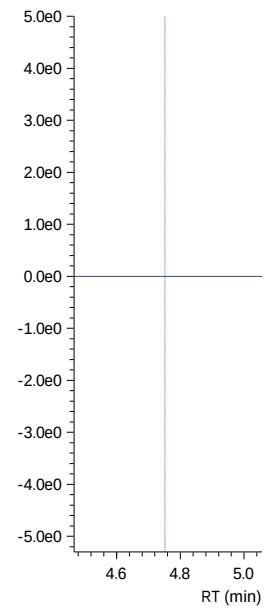
R1 499.00>99.00 (-) 2.20e2



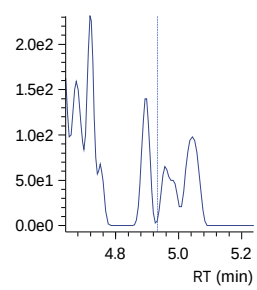
PFOS-13C
Conc ----
Q 502.80>80.05 (-) 0.00e0



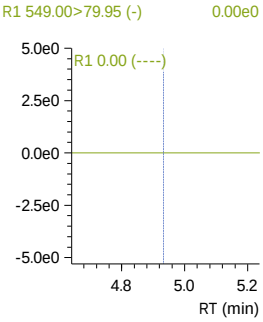
PFOS-13C_IS
Conc ----
ISTD 502.80>80.05 (-) 0.00e0



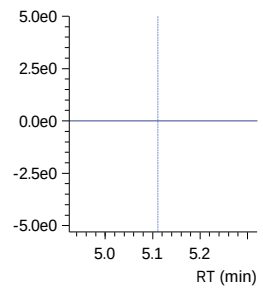
PFNS
Conc ----
R#1 0.00 (137.56)
Q 549.00>99.00 (-) 2.31e2



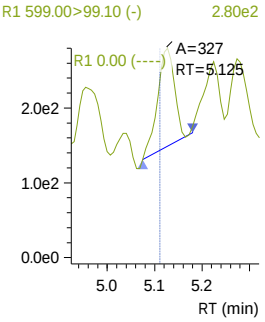
R1 549.00>79.95 (-) 0.00e0



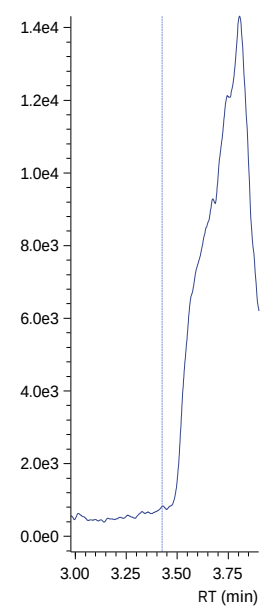
PFDS_1
Conc ----
R#1 0.00 (101.78)
Q 599.00>79.90 (-) 0.00e0



R1 599.00>99.10 (-) 2.80e2

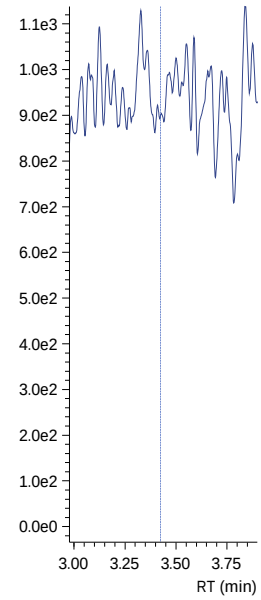


PFBA
Conc ----
Q 213.00>169.10 (-) 1.43e4

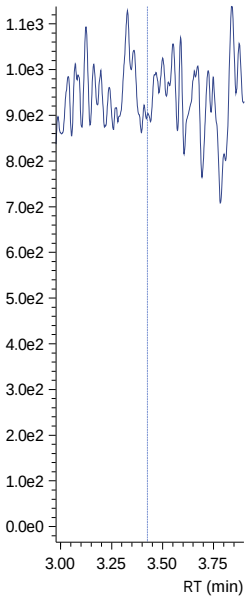


210819_031 (continued)

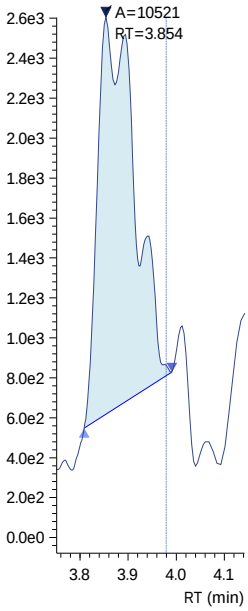
PFBA-13C
Conc ----
Q 216.90>172.15 (-) 1.14e3



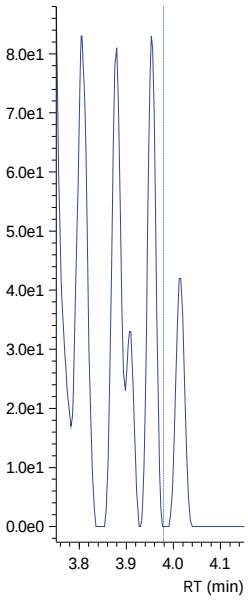
PFBA-13C_IS
Conc ----
ISTD 216.90>172.15 (-) 1.14e3



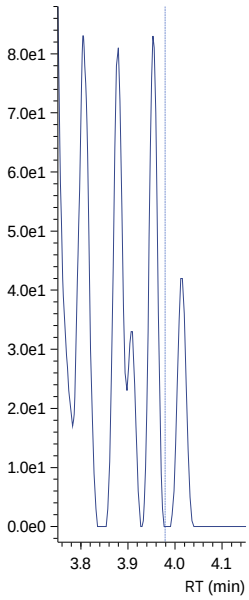
PFPeA
Conc 0.0000
Q 263.05>219.10 (-) 2.60e3



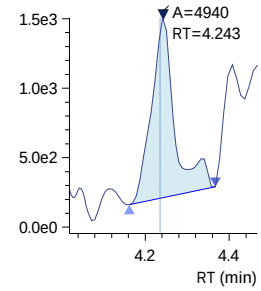
PFPeA-13C
Conc ----
Q 267.90>223.00 (-) 8.80e1



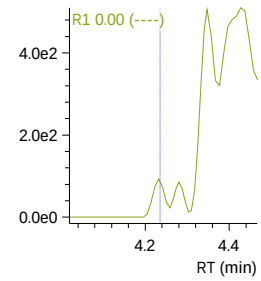
PFPeA-13C_IS
Conc ----
ISTD 267.90>223.00 (-) 8.80e1



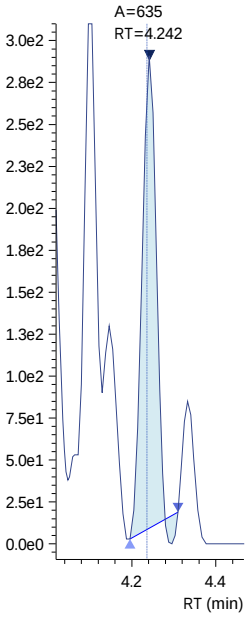
PFHxA
Conc 28.6124
R#1 0.00 (4.21)
Q 313.00>269.00 (-) 1.51e3



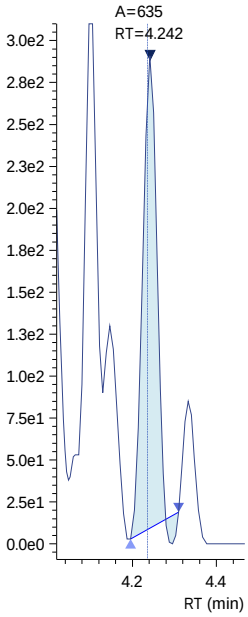
R1 313.00>119.10 (-) 5.10e2



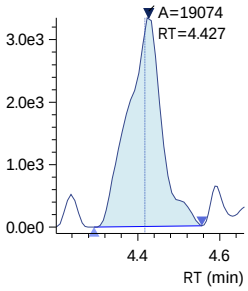
PFHxA-13C
Conc 1.8332
Q 314.90>270.10 (-) 3.10e2



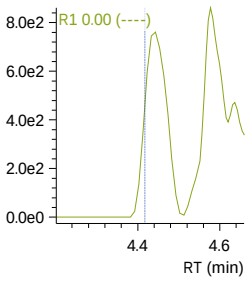
PFHxA-13C_IS
Conc 5.0000
ISTD 314.90>270.10 (-) 3.10e2



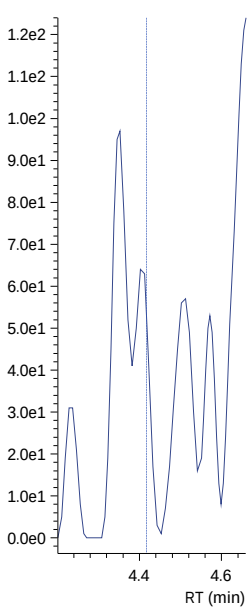
PFHpA
Conc 0.0000
R#1 0.00 (26.69)
Q 362.90>319.00 (-) 3.35e3



R1 362.90>169.00 (-) 8.61e2

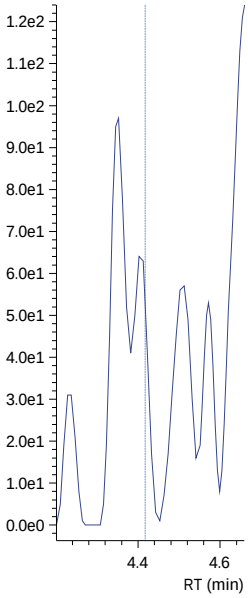


PFHpA-13C
Conc ----
Q 366.90>322.10 (-) 1.24e2

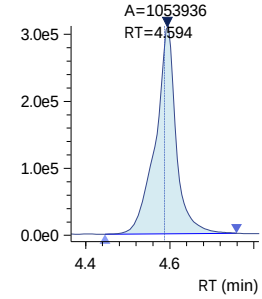


210819_031 (continued)

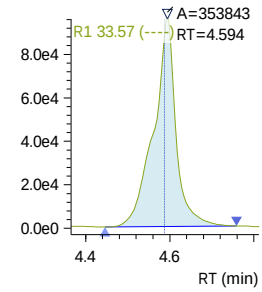
PFHpA-13C_IS
Conc ----
ISTD 366.90>322.10 (-) 1.24e2



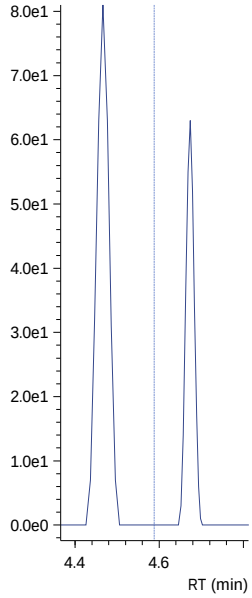
PFOA
Conc 0.0000
R#1 33.57 (31.31)
Q 413.00>369.00 (-) 3.13e5



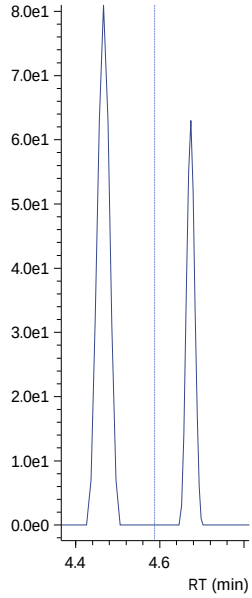
R1 413.00>169.10 (-) 9.63e4



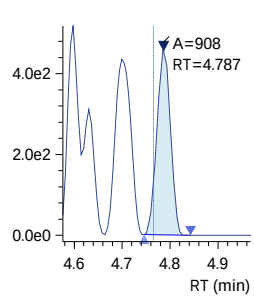
PFOA-13C
Conc ----
Q 416.80>372.05 (-) 8.10e1



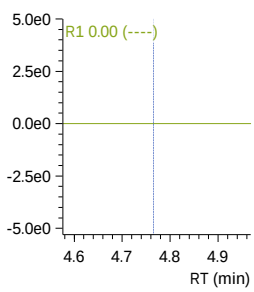
PFOA-13C_IS
Conc ----
ISTD 416.80>372.05 (-) 8.10e1



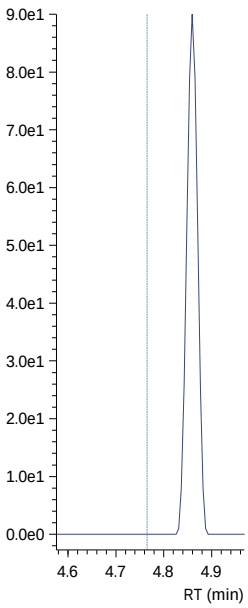
PFNA
Conc 0.0000
R#1 0.00 (20.54)
Q 463.00>418.90 (-) 5.18e2



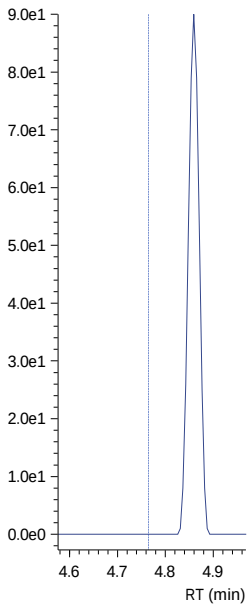
R1 463.00>219.00 (-) 0.00e0



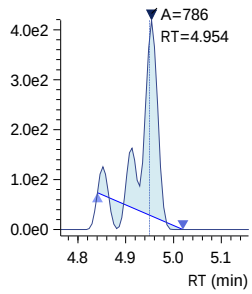
PFNA-13C
Conc ----
Q 467.80>423.00 (-) 9.00e1



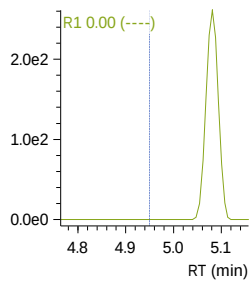
PFNA-13C_IS
Conc ----
ISTD 467.80>423.00 (-) 9.00e1



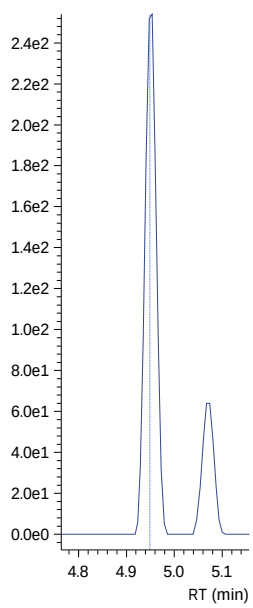
PFDA
Conc 0.0000
R#1 0.00 (20.01)
Q 513.00>468.80 (-) 4.19e2



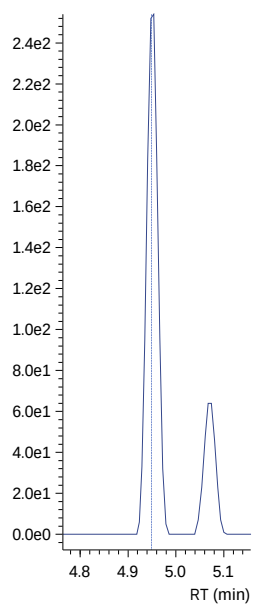
R1 513.00>219.10 (-) 2.61e2



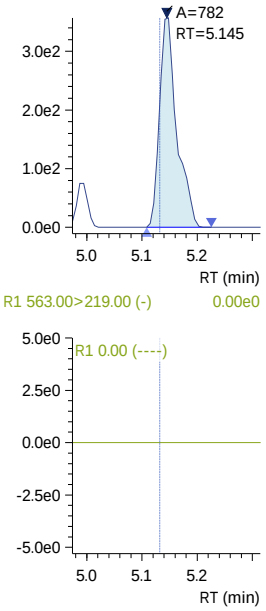
PFDA-13C
Conc ----
Q 514.80>469.95 (-) 2.54e2



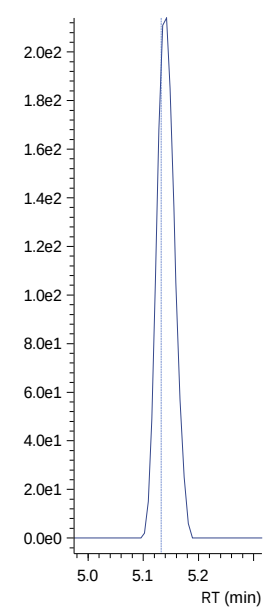
PFDA-13C_IS
Conc ----
ISTD 514.80>469.95 (-) 2.54e2

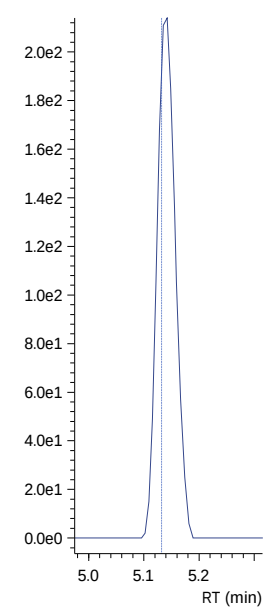


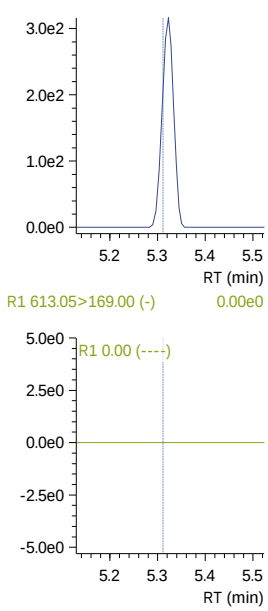
210819_031 (continued)

PFUnA
Conc 0.0000
R#1 0.00 (13.39)
Q 563.00>518.90 (-) 3.57e2


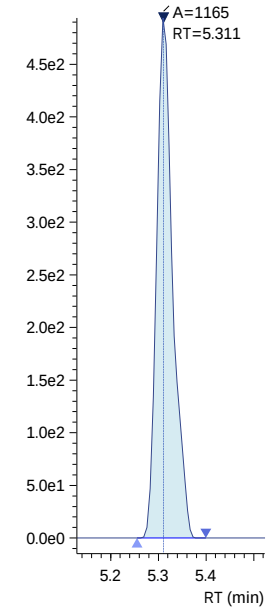
R1 563.00>219.00 (-) 0.00e0

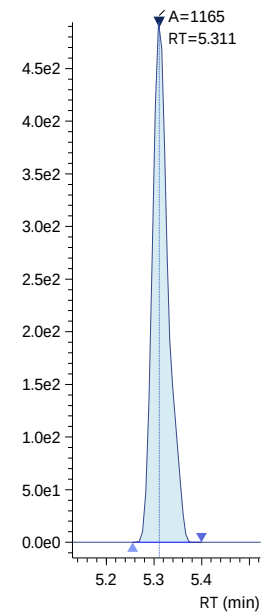
PFUnA-13C
Conc ----
Q 564.80>519.95 (-) 2.14e2


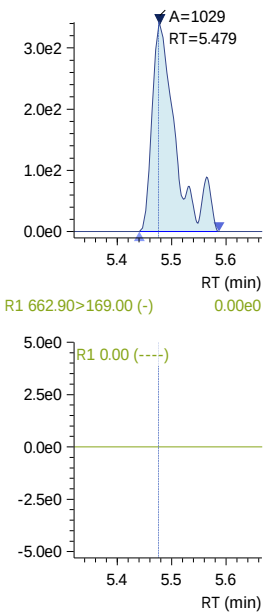
PFUnA-13C_IS
Conc ----
ISTD 564.80>519.95 (-) 2.14e2


PFDoA
Conc ----
R#1 0.00 (16.84)
Q 613.05>569.00 (-) 3.16e2


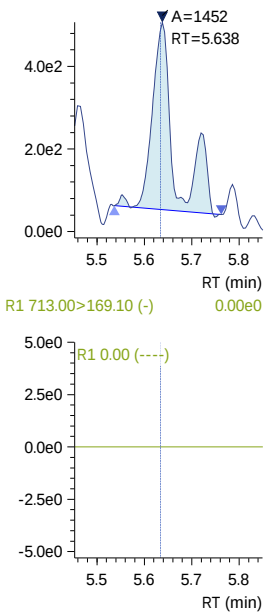
R1 613.05>169.00 (-) 0.00e0

PFDoA-13C
Conc 3.6244
Q 614.80>569.95 (-) 4.94e2


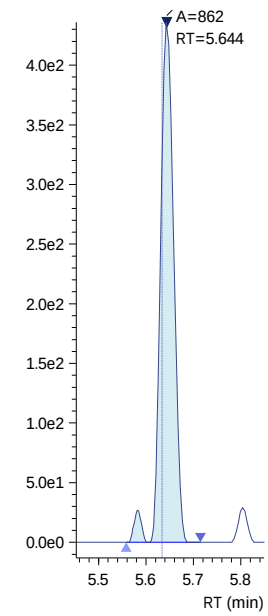
PFDoA-13C_IS
Conc 5.0000
ISTD 614.80>569.95 (-) 4.94e2


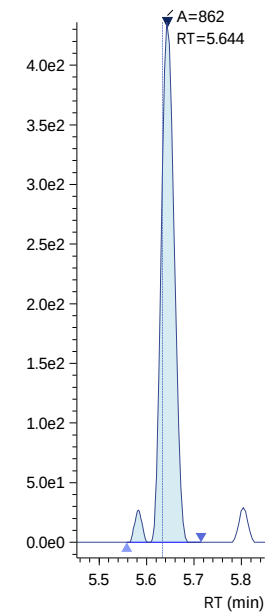
PFTrDA
Conc 4.0220
R#1 0.00 (16.76)
Q 663.00>618.90 (-) 3.42e2


R1 662.90>169.00 (-) 0.00e0

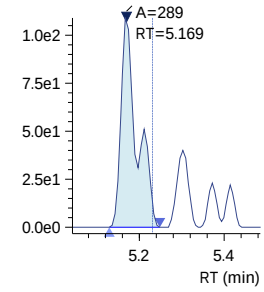
PFTeDA
Conc 7.3645
R#1 0.00 (16.56)
Q 713.00>669.00 (-) 5.07e2


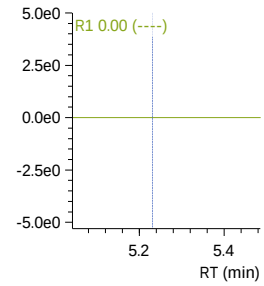
R1 713.00>169.10 (-) 0.00e0

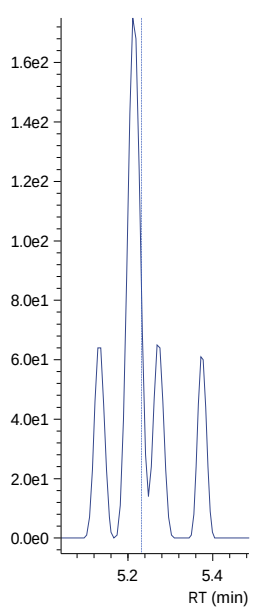
PFTeDA-13C
Conc 3.9606
Q 714.70>669.90 (-) 4.36e2


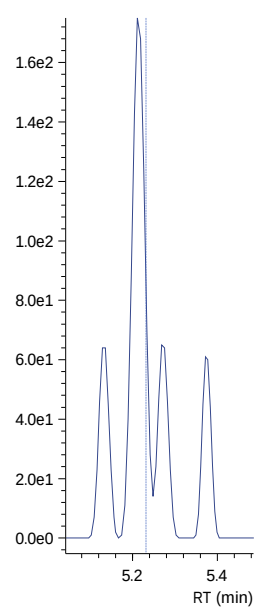
PFTeDA-13C_IS
Conc 5.0000
ISTD 714.70>669.90 (-) 4.36e2


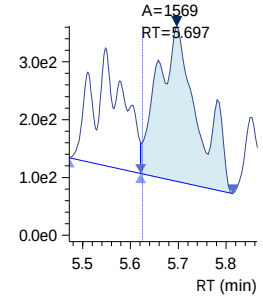
210819_031 (continued)

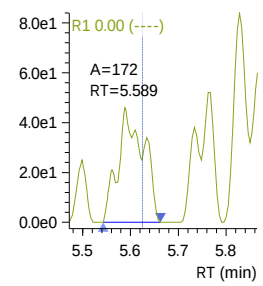
FOSA
Conc 0.0000
R#1 0.00 (4.59)
Q 498.20>78.00 (-) 1.09e2


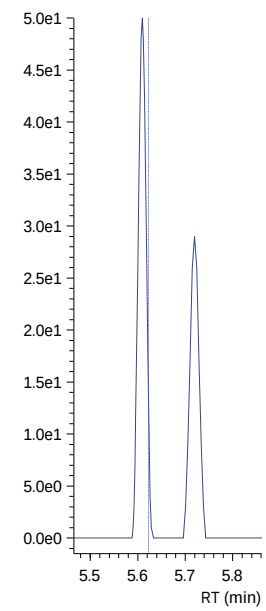
R1 498.20>64.10 (-) 0.00e0


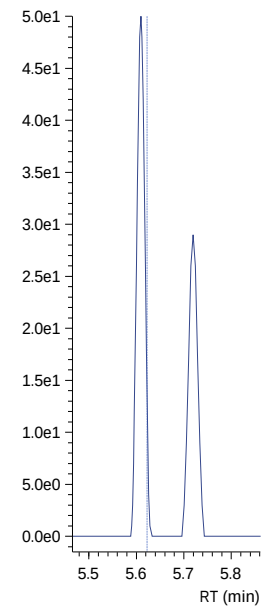
FOSA-13C
Conc ----
Q 506.00>78.05 (-) 1.75e2


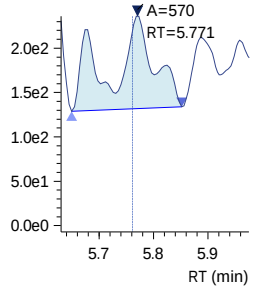
FOSA-13C_IS
Conc ----
ISTD 506.00>78.05 (-) 1.75e2


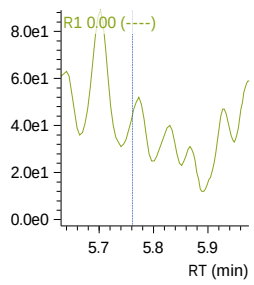
N-MeFOSA
Conc 0.0000
R#1 0.00 (68.73)
Q 512.00>169.10 (-) 3.62e2


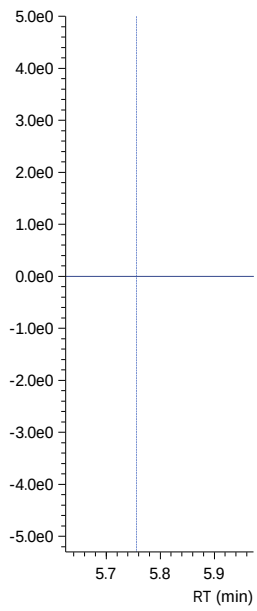
R1 512.00>219.00 (-) 8.40e1


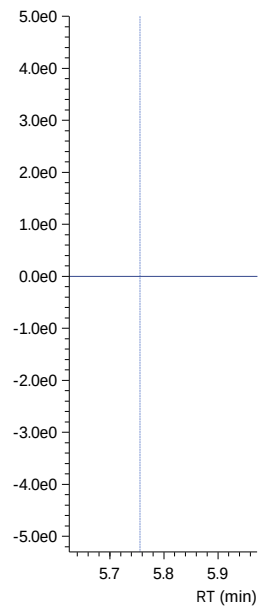
N-MeFOSA-d3
Conc ----
Q 514.90>168.90 (-) 5.00e1


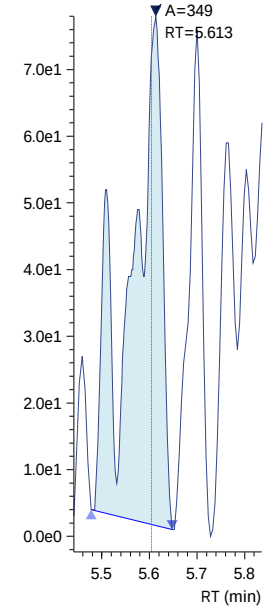
N-MeFOSA-d3_IS
Conc ----
ISTD 514.90>168.90 (-) 5.00e1


N-EtFOSA
Conc 0.0000
R#1 0.00 (62.10)
Q 526.90>169.10 (-) 2.36e2


R1 526.90>219.00 (-) 8.90e1


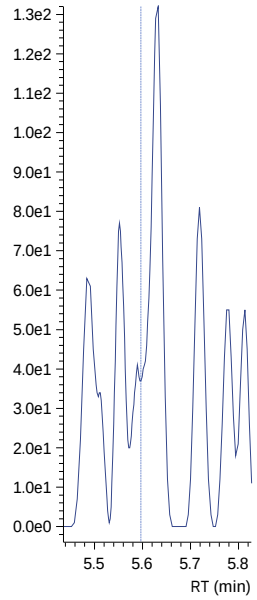
N-EtFOSA-d9
Conc ----
Q 530.90>169.15 (-) 0.00e0


N-EtFOSA-d9_IS
Conc ----
ISTD 530.90>169.15 (-) 0.00e0


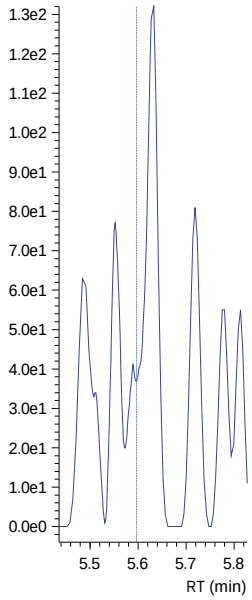
N-MeFOSE
Conc 0.0000
Q 616.00>59.00 (-) 7.80e1


210819_031 (continued)

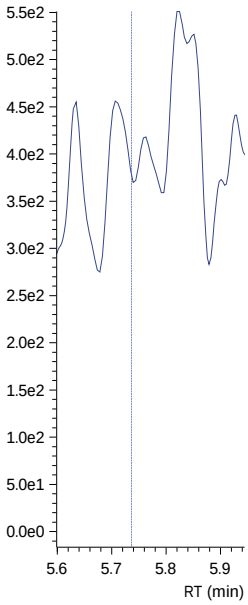
N-MeFOSE-d7
Conc ----
Q 622.70>59.10 (-) 1.32e2



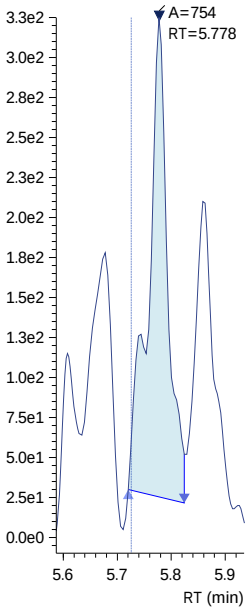
N-MeFOSE-d7_IS
Conc ----
ISTD 622.70>59.10 (-) 1.32e2



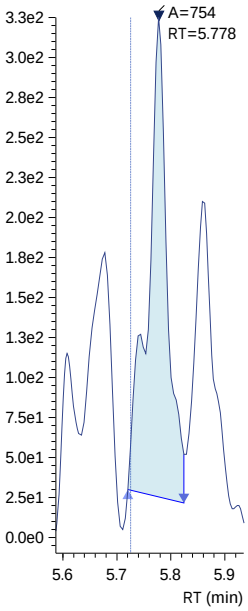
N-EtFOSE
Conc ----
Q 630.00>58.90 (-) 5.51e2



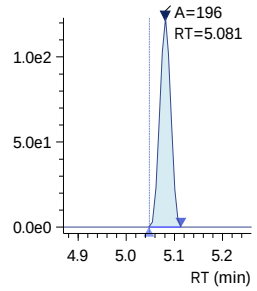
N-EtFOSE-d9
Conc 22.6167
Q 638.70>59.10 (-) 3.25e2



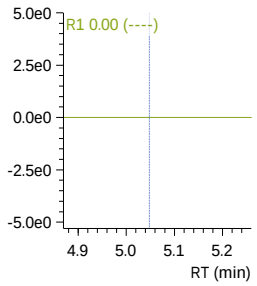
N-EtFOSE-d9_IS
Conc 5.0000
ISTD 638.70>59.10 (-) 3.25e2



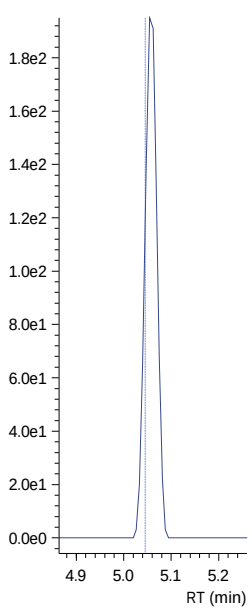
N-MeFOSAA
Conc 0.0000
R#1 0.00 (52.81)
Q 570.20>419.00 (-) 1.23e2



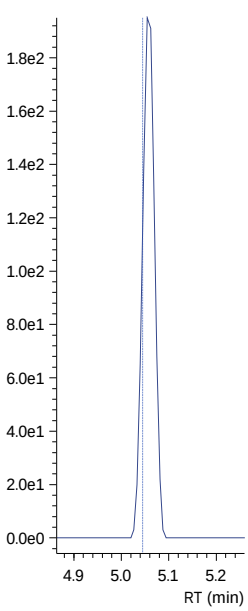
R1 570.20>512.00 (-) 0.00e0



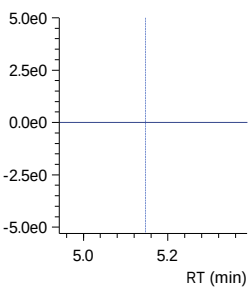
N-MeFOSAA-d3
Conc ----
Q 572.80>419.05 (-) 1.95e2



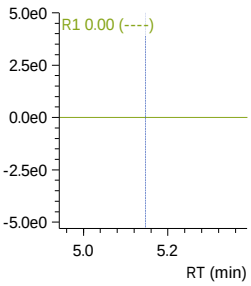
N-MeFOSAA-d3_IS
Conc ----
ISTD 572.80>419.05 (-) 1.95e2



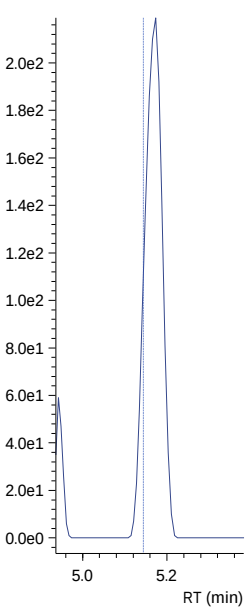
N-EtFOSAA
Conc ----
R#1 0.00 (86.68)
Q 584.20>418.95 (-) 0.00e0



R1 584.20>526.10 (-) 0.00e0

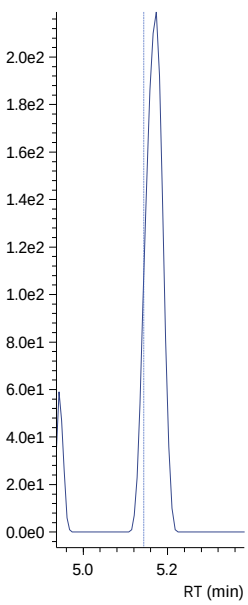


N-EtFOSAA-d5
Conc ----
Q 588.80>419.00 (-) 2.19e2

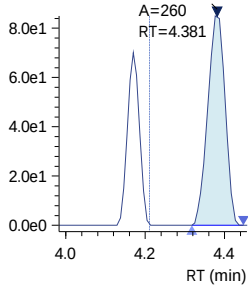


210819_031 (continued)

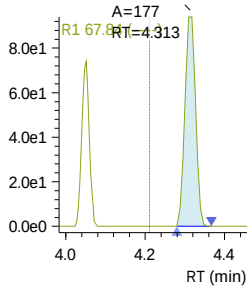
N-EtFOSAA-d5_IS
Conc ----
ISTD 588.80>419.00 (-) 2.19e2



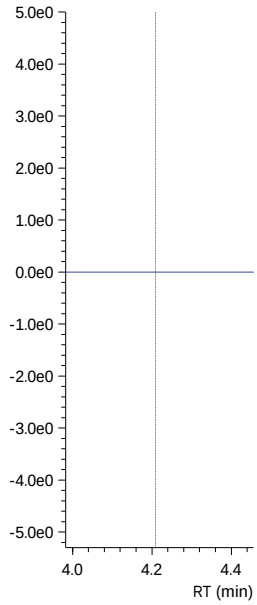
4_2-FTS_1
Conc 0.0000
R#1 67.84 (33.17)
Q 327.00>307.05 (-) 8.50e1



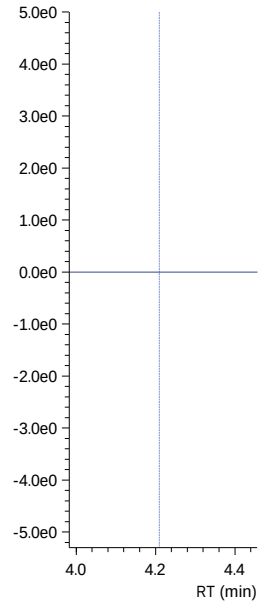
R1 327.00>81.10 (-) 9.40e1



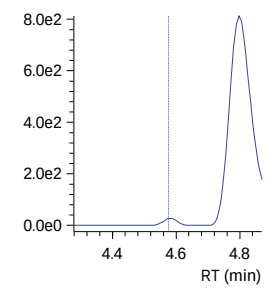
4_2-FTS-13C
Conc ----
Q 328.80>309.05 (-) 0.00e0



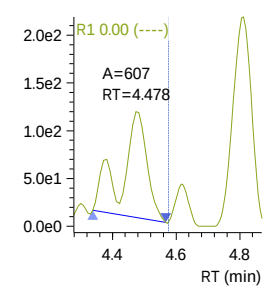
4_2-FTS-13C_IS
Conc ----
ISTD 328.80>309.05 (-) 0.00e0



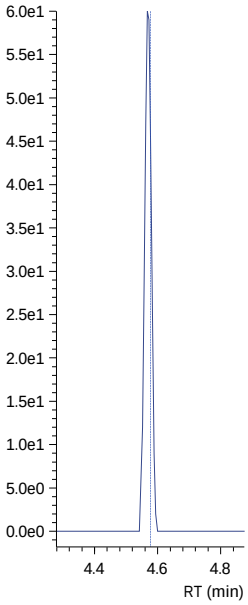
6_2-FTS_1
Conc ----
R#1 0.00 (31.24)
Q 427.00>407.00 (-) 8.13e2



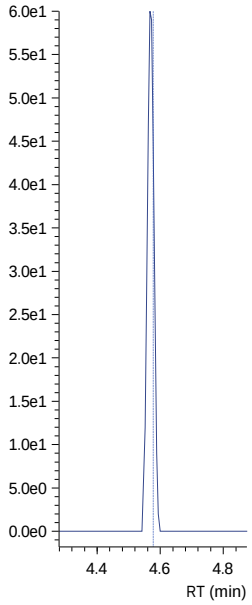
R1 427.00>80.90 (-) 2.19e2



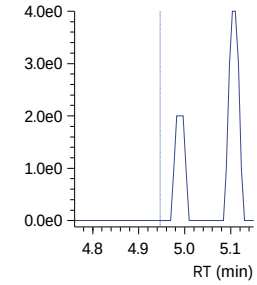
6_2-FTS-13C
Conc ----
Q 428.90>409.00 (-) 6.00e1



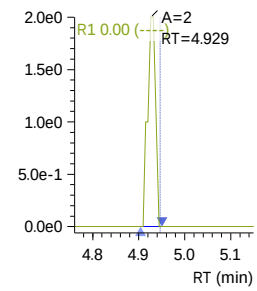
6_2-FTS-13C_IS
Conc ----
ISTD 428.90>409.00 (-) 6.00e1



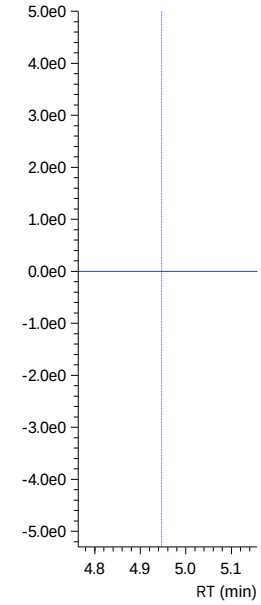
8_2-FTS_1
Conc ----
R#1 0.00 (9.11)
Q 527.10>506.90 (-) 4.00e0



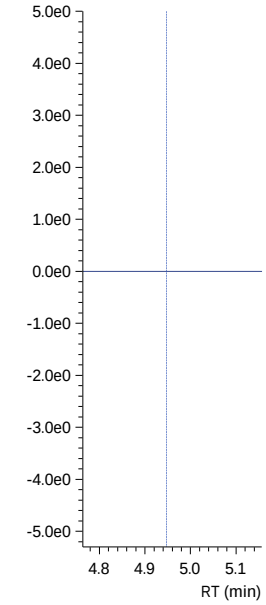
R1 527.20>487.00 (-) 2.00e0



8_2-FTS-13C
Conc ----
Q 528.80>509.00 (-) 0.00e0

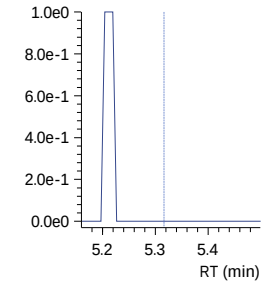


8_2-FTS-13C_IS
Conc ----
ISTD 528.80>509.00 (-) 0.00e0

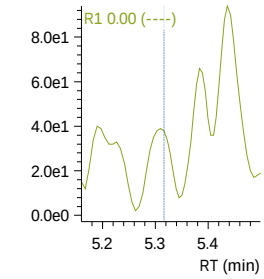


210819_031 (continued)

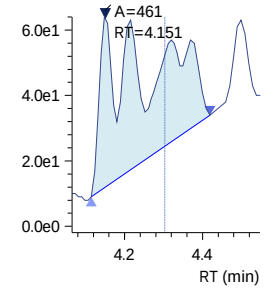
10_2-FtS_1
Conc ----
R#1 0.00 (50.91)
Q 627.00>606.95 (-) 1.00e0



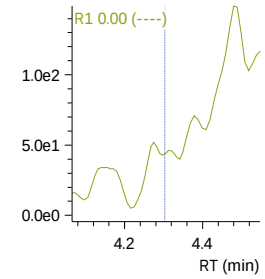
R1 627.00>81.25 (-) 9.40e1



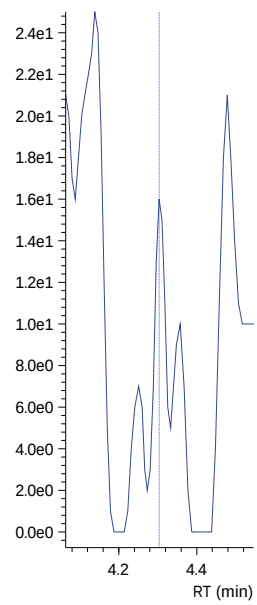
HPFO_DA
Conc 0.0000
R#1 0.00 (109.48)
Q 329.00>169.00 (-) 6.40e1



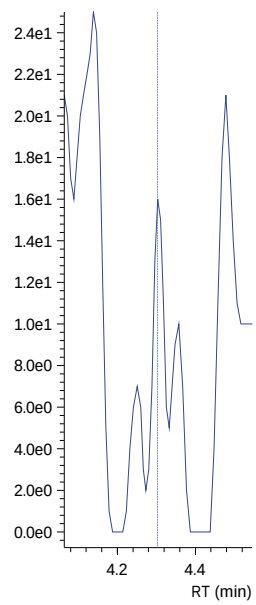
R1 329.00>285.10 (-) 1.49e2



HFPO_DA-13C
Conc ----
Q 332.00>286.80 (-) 2.50e1



HFPO_DA-13C_IS
Conc ----
ISTD 332.00>286.80 (-) 2.50e1



210909_curve

ALS Environmental

Injection Log

LCMS06 -Shimadzu 8050

ICAL Date:	9/9/2021		
Std. xp:	12/12/21 (ICV xp 9/30/21; TPFOA xp 2/17/22)		
ICAL ID:	KC2100481		
LIMS ID:	NA		

teview: U. Amadioha

Review:

mn: Phenomenex EVO-C18 100X4.6 mm S/N: H21-242279

ile Phases **A:** 5mM Ammonium Acetate in H2O 21-OLC-02-21I **B:** 5mM Ammonium Acetate In MeOH 21-OLC-02-21K

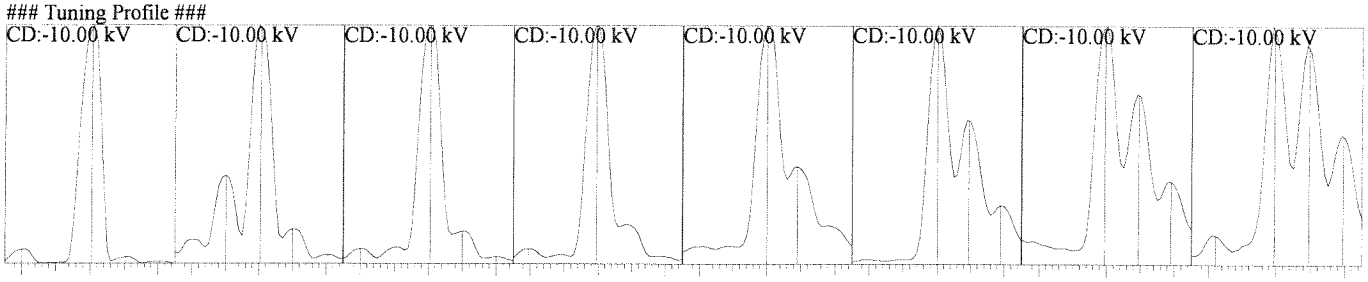
Sample Name		File Name	Acquisition Method	Dilution	R	
CCB	21-OLC-02-11I	210909_007	PFAS_updated_210724_30_AREAS_LCMS06.lcm	1x	☒	
PFC ICAL @ 0.05ppb	21-OLC-02-11B	210909_008	PFAS_updated_210724_30_AREAS_LCMS06.lcm	1x	☒	
PFC ICAL @ 0.10ppb	21-OLC-02-11C	210909_009	PFAS_updated_210724_30_AREAS_LCMS06.lcm	1x	☒	
PFC ICAL @ 0.50ppb	21-OLC-02-11D	210909_010	PFAS_updated_210724_30_AREAS_LCMS06.lcm	1x	☒	
PFC ICAL @ 1.0ppb	21-OLC-02-24E	210909_011	PFAS_updated_210724_30_AREAS_LCMS06.lcm	1x	☒	
PFC ICAL @ 5.0ppb	21-OLC-02-11F	210909_012	PFAS_updated_210724_30_AREAS_LCMS06.lcm	1x	☒	
PFC ICAL @ 10ppb	21-OLC-02-11G	210909_013	PFAS_updated_210724_30_AREAS_LCMS06.lcm	1x	☒	
CCB	21-OLC-02-11I	210909_014	PFAS_updated_210724_30_AREAS_LCMS06.lcm	1x	☒	
PFC ICAL @ 15ppb	21-OLC-02-11H	210909_015	PFAS_updated_210724_30_AREAS_LCMS06.lcm	1x	☒	
CCB	21-OLC-02-11I	210909_016	PFAS_updated_210724_30_AREAS_LCMS06.lcm	1x	☒	
PFC ICV @ 1.0ppb	21-OLC-02-10A	210909_017	PFAS_updated_210724_30_AREAS_LCMS06.lcm	1x	☒	
Tech PFOA	21-OLC-02-15B	210909_019	PFAS_updated_210724_30_AREAS_LCMS06.lcm	1x		

Sample Information
Sample Type: PEG+PPG+Raffinose

Tuning Condition
Detector Adjustment: On
Resolution Adjustment: On
FWHM of Spectrum: 0.70
Sensitivity Adjustment: On
Mass Calibration: On

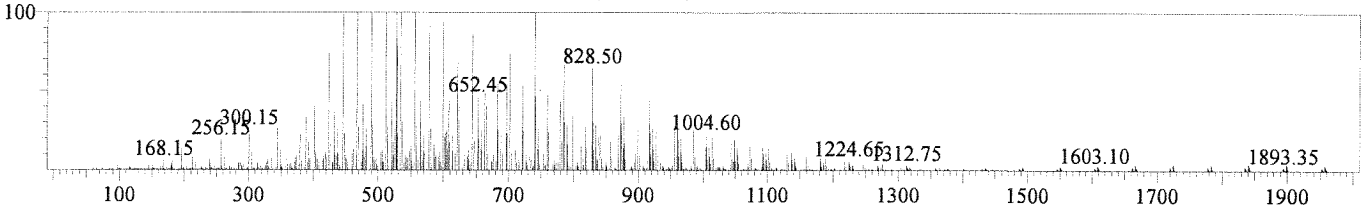
Tuning Result
Model :LCMS-8050
Serial Number :O10835355039US
Interface :ESI
Polarity :Positive
Tuning Mode :Auto Tuning
Tuning Date :9/9/2021 12:12:13 PM
Acquisition Mode :Q1 Scan(Use CID Gas)
Nebulizing Gas Flow :1.50(settings : 1.50) L/min
Drying Gas Flow :0.00(settings : 10.00) L/min
CID Gas Flow :270(settings : 270) kPa
Heating Gas Flow :5.00(settings : 5.00) L/Min
Interface Bias :+4.00 kV
Interface Current :1.81 uA
Interface Temp. :99(settings : 100) C
DL Temp. :249(settings : 250) C
Heat Block Temp. :399(settings : 400) C
Q1 RF Gain :4999
Q1 RF Offset :5000
Q3 RF Gain :---
Q3 RF Offset :---
Q1 Post-rod Bias :-5.0 V
CID CELL Exit Lens :-4.0 V
Conversion Dynode :-10.00 kV
Detector :-2.28(-2.28) kV
Vacuum Pressure(QA) :1.4e+02 Pa
Vacuum Pressure(QP) :2.1e-03 Pa

Tuning Profile



Int.: 5438100	Int.: 1187969	Int.: 3736288	Int.: 4876956	Int.: 9083030	Int.: 4813507	Int.: 1105532	Int.: 357511
FWHM: 0.68	FWHM: 0.69	FWHM: 0.71	FWHM: 0.70	FWHM: 0.75	FWHM: 0.69	FWHM: 0.72	FWHM: 0.68
m/z : 45.05	m/z : 168.10	m/z : 256.15	m/z : 300.20	m/z : 652.40	m/z : 1004.60	m/z : 1224.75	m/z : 1603.15
Mag.: 3	Mag.: 16	Mag.: 5	Mag.: 4	Mag.: 2	Mag.: 4	Mag.: 17	Mag.: 54

Scan Range: 2.00 - 2000.00 Scan Speed: 30 u/s Base Peak: 467.35 (20000000)



m/z(Target)	m/z(Actual)	Difference	Width	Intensity
45.05	45.10	0.05	0.68	5438100
168.10	168.15	0.05	0.69	1187969
256.15	256.15	0.00	0.71	3736288
300.20	300.15	-0.05	0.70	4876956
652.40	652.45	0.05	0.75	9083030
1004.60	1004.60	0.00	0.69	4813507
1224.75	1224.65	-0.10	0.72	1105532
1603.15	1603.10	-0.05	0.68	357511

9/9/2021

SEP 0 9 2021

LCMS06_090921.lct

C:¥LabSolutions¥Data¥Tune_Files¥Autotune_090821.lct

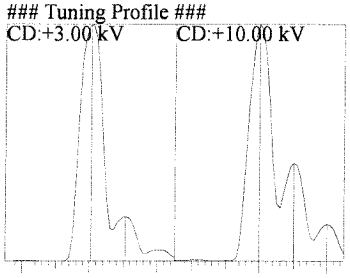
Tuning Condition

Detector Adjustment:	On
Resolution Adjustment:	On
FWHM of Spectrum:	0.70
Sensitivity Adjustment:	On
Mass Calibration:	On

Tuning Result

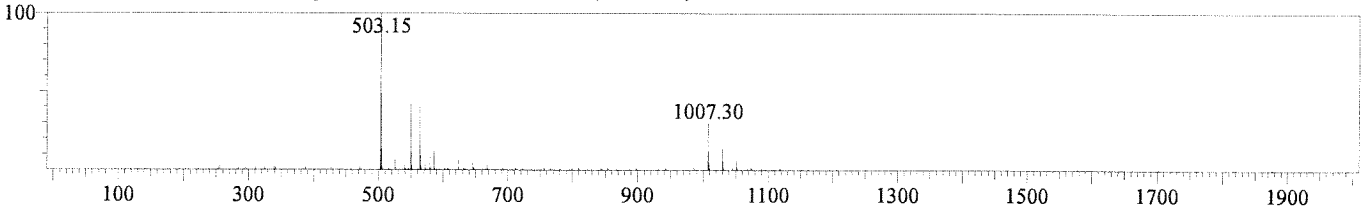
Model	:LCMS-8050
Serial Number	:O10835355039US
Interface	:ESI
Polarity	:Negative
Tuning Mode	:Auto Tuning
Tuning Date	:9/9/2021 12:16:47 PM
Acquisition Mode	:Q1 Scan(Use CID Gas)
Nebulizing Gas Flow	:1.50(settings : 1.50) L/min
Heating Gas Flow	:5.01(settings : 5.00) L/Min
Interface Bias	:-3.00 kV
Interface Current	:7.81 uA
Interface Temp.	:100(settings : 100) C
DL Temp.	:250(settings : 250) C
Heat Block Temp.	:399(settings : 400) C
Q1 RF Gain	:5000
Q1 RF Offset	:5000
Q3 RF Gain	:---
Q3 RF Offset	:---
Q1 Post-rod Bias	:5.0 V
CID CELL Exit Lens	:3.5 V
Conversion Dynode	:+10.00 kV
Detector	:-2.28(-2.28) kV
Vacuum Pressure(QA)	:1.4e+02 Pa
Vacuum Pressure(QP)	:2.1e-03 Pa

Tuning Profile



Int.: 13014419	Int.: 5914652
FWHM: 0.75	FWHM: 0.73
m/z : 503.15	m/z : 1007.30
Mag.: 1	Mag.: 3

Scan Range: 2.00 - 2000.00 Scan Speed: 30 u/s Base Peak: 503.15 (20000000)



m/z(Target)	m/z(Actual)	Difference	Width	Intensity
503.15	503.15	0.00	0.75	13014419
1007.30	1007.30	0.00	0.73	5914652

SEP ( )

SEP 0 9 2021

C:¥LabSolutions¥Data¥Tune_Files¥Autotune_090821.lct

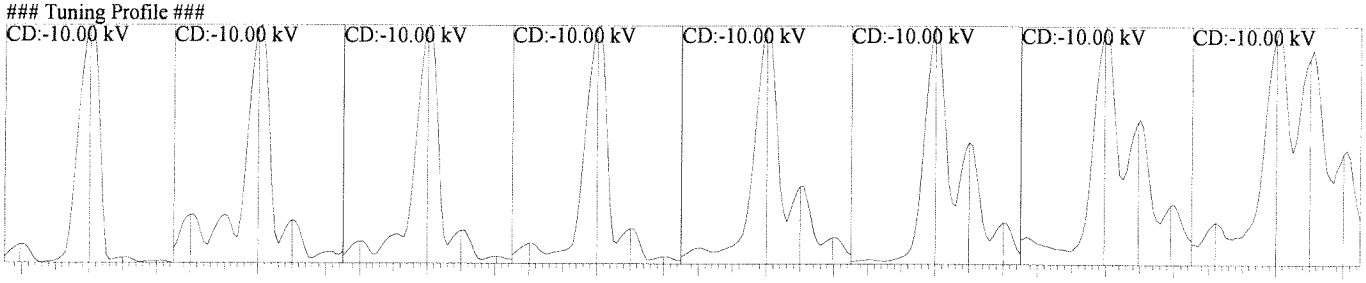
Tuning Condition

Detector Adjustment:	On
Resolution Adjustment:	On
FWHM of Spectrum:	0.70
Sensitivity Adjustment:	On
Mass Calibration:	On

Tuning Result

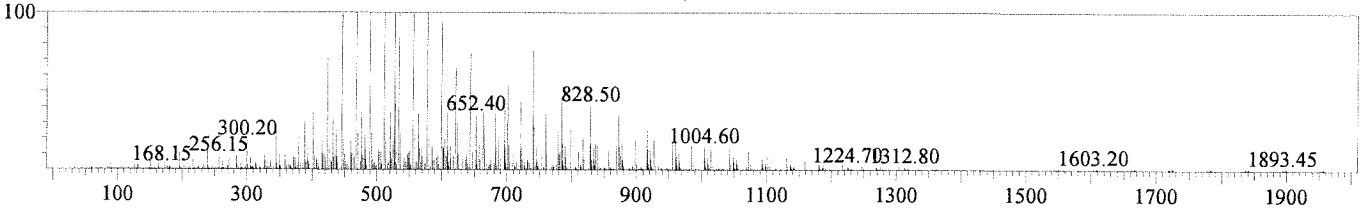
Model	:LCMS-8050
Serial Number	:O10835355039US
Interface	:ESI
Polarity	:Positive
Tuning Mode	:Auto Tuning
Tuning Date	:9/9/2021 12:20:10 PM
Acquisition Mode	:Q3 Scan(Use CID Gas)
Nebulizing Gas Flow	:1.50(settings : 1.50) L/min
Heating Gas Flow	:5.00(settings : 5.00) L/min
Interface Bias	:+4.00 kV
Interface Current	:1.81 uA
Interface Temp.	:100(settings : 100) C
DL Temp.	:249(settings : 250) C
Heat Block Temp.	:399(settings : 400) C
Q1 RF Gain	:---
Q1 RF Offset	:---
Q3 RF Gain	:4997
Q3 RF Offset	:4990
Q1 Post-rod Bias	:-5.0 V
CID CELL Exit Lens	:-4.0 V
Conversion Dynode	:-10.00 kV
Detector	:-2.28(-2.28) kV
Vacuum Pressure(QA)	:1.4e+02 Pa
Vacuum Pressure(QP)	:2.1e-03 Pa

Tuning Profile



Int.: 14360595	Int.: 430789	Int.: 1642510	Int.: 3793803	Int.: 7093624	Int.: 2609882	Int.: 438415	Int.: 108503
FWHM: 0.71	FWHM: 0.67	FWHM: 0.69	FWHM: 0.68	FWHM: 0.69	FWHM: 0.69	FWHM: 0.69	FWHM: 0.74
m/z : 45.05	m/z : 168.10	m/z : 256.15	m/z : 300.20	m/z : 652.40	m/z : 1004.60	m/z : 1224.75	m/z : 1603.15
Mag.: 1	Mag.: 45	Mag.: 12	Mag.: 5	Mag.: 2	Mag.: 7	Mag.: 44	Mag.: 176

Scan Range: 2.00 - 2000.00 Scan Speed: 30 u/s Base Peak: 467.35 (20000000)



m/z(Target)	m/z(Actual)	Difference	Width	Intensity
45.05	45.05	0.00	0.71	14360595
168.10	168.15	0.05	0.67	430789
256.15	256.15	0.00	0.69	1642510
300.20	300.20	0.00	0.68	3793803
652.40	652.40	0.00	0.69	7093624
1004.60	1004.60	0.00	0.69	2609882
1224.75	1224.70	-0.05	0.69	438415
1603.15	1603.20	0.05	0.74	108503

SEP 0 9 2021

C:¥LabSolutions¥Data¥Tune_Files¥Autotune_090821.lct

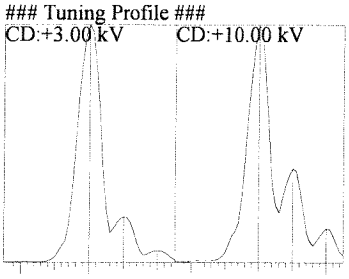
Tuning Condition

Detector Adjustment:	On
Resolution Adjustment:	On
FWHM of Spectrum:	0.70
Sensitivity Adjustment:	On
Mass Calibration:	On

Tuning Result

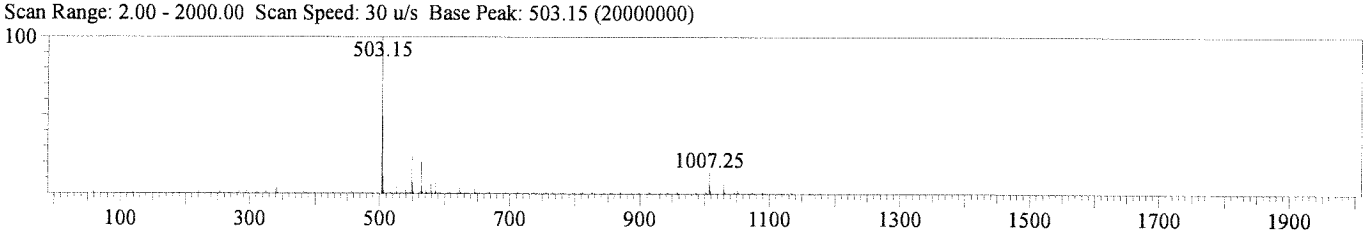
Model	:LCMS-8050
Serial Number	:O10835355039US
Interface	:ESI
Polarity	:Negative
Tuning Mode	:Auto Tuning
Tuning Date	:9/9/2021 12:23:30 PM
Acquisition Mode	:Q3 Scan(Use CID Gas)
Nebulizing Gas Flow	:1.50(settings : 1.50) L/min
Heating Gas Flow	:5.00(settings : 5.00) L/Min
Interface Bias	:-3.00 kV
Interface Current	:9.68 uA
Interface Temp.	:100(settings : 100) C
DL Temp.	:250(settings : 250) C
Heat Block Temp.	:400(settings : 400) C
Q1 RF Gain	:---
Q1 RF Offset	:---
Q3 RF Gain	:4999
Q3 RF Offset	:5000
Q1 Post-rod Bias	:5.0 V
CID CELL Exit Lens	:3.5 V
Conversion Dynode	:+10.00 kV
Detector	:-2.28(-2.28) kV
Vacuum Pressure(QA)	:1.4e+02 Pa
Vacuum Pressure(QP)	:2.1e-03 Pa

Tuning Profile



CD:+3.00 kV	CD:+10.00 kV
Int.: 10244978	Int.: 2966797
FWHM: 0.75	FWHM: 0.70
m/z : 503.15	m/z : 1007.30
Mag.: 1	Mag.: 6

Scan Range: 2.00 - 2000.00 Scan Speed: 30 u/s Base Peak: 503.15 (20000000)



m/z(Target)	m/z(Actual)	Difference	Width	Intensity
503.15	503.15	0.00	0.75	10244978
1007.30	1007.25	-0.05	0.70	2966797

SEP 09 2021

C:¥LabSolutions¥Data¥Tune_Files¥Autotune_090821.lct

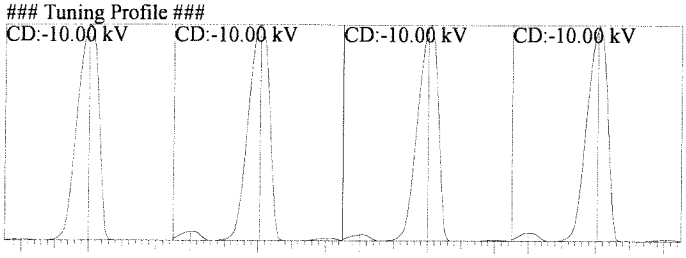
Tuning Condition

Detector Adjustment:	On
Resolution Adjustment:	On
FWHM of Spectrum:	0.70
Sensitivity Adjustment:	On
Mass Calibration:	On

Tuning Result

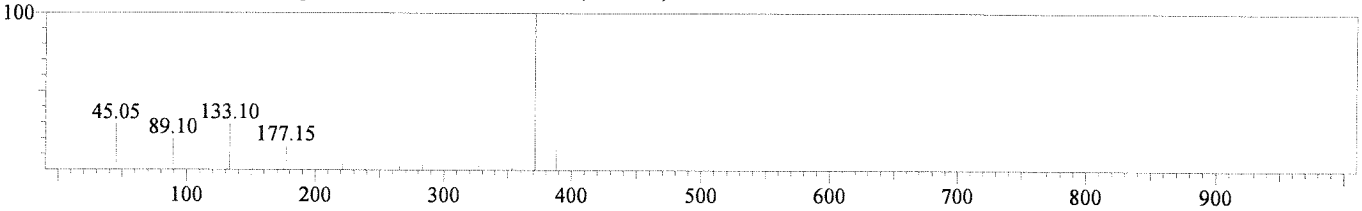
Model	:LCMS-8050
Serial Number	:O10835355039US
Interface	:ESI
Polarity	:Positive
Tuning Mode	:Auto Tuning
Tuning Date	:9/9/2021 12:27:13 PM
Acquisition Mode	:Product Ion Scan
Nebulizing Gas Flow	:1.50(settings : 1.50) L/min
Heating Gas Flow	:5.00(settings : 5.00) L/min
Interface Bias	:+4.00 kV
Interface Current	:2.08 uA
Interface Temp.	:100(settings : 100) C
DL Temp.	:250(settings : 250) C
Heat Block Temp.	:400(settings : 400) C
Q1 RF Gain	:4999
Q1 RF Offset	:5000
Q3 RF Gain	:4997
Q3 RF Offset	:4989
Q1 Post-rod Bias	:-5.0 V
CID CELL Exit Lens	:-1.7 V
Conversion Dynode	:-10.00 kV
Detector	:-2.28(-2.28) kV
Vacuum Pressure(QA)	:1.4e+02 Pa
Vacuum Pressure(QP)	:2.1e-03 Pa

Tuning Profile



Int.: 829615	Int.: 587239	Int.: 814845	Int.: 465233
FWHM: 0.73	FWHM: 0.70	FWHM: 0.70	FWHM: 0.68
m/z : 45.05	m/z : 89.05	m/z : 133.10	m/z : 177.10
Pre m/z: 388.25	Pre m/z: 388.25	Pre m/z: 388.25	Pre m/z: 388.25
Mag.: 24	Mag.: 34	Mag.: 24	Mag.: 42

Scan Range: 2.00 - 438.25 Scan Speed: 30 u/s Base Peak: 371.20 (2841442) Pre m/z: 388.25



m/z(Target)	m/z(Actual)	Difference	Width	Intensity
388.25 > 45.05	45.05	0.00	0.73	829615
388.25 > 89.05	89.10	0.05	0.70	587239
388.25 > 133.10	133.10	0.00	0.70	814845
388.25 > 177.10	177.15	0.05	0.68	465233

SEP 09 2021

C:¥LabSolutions¥Data¥Tune_Files¥Autotune_090821.lct

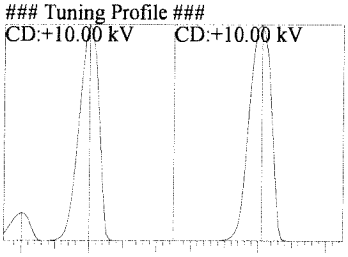
Tuning Condition

Detector Adjustment:	On
Resolution Adjustment:	On
FWHM of Spectrum:	0.70
Sensitivity Adjustment:	On
Mass Calibration:	On

Tuning Result

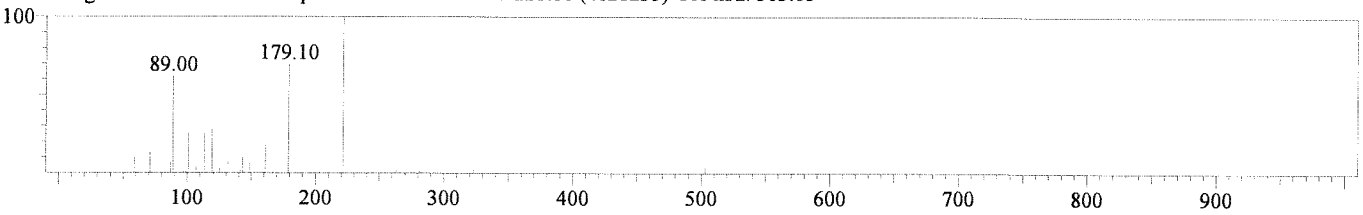
Model	:LCMS-8050
Serial Number	:O10835355039US
Interface	:ESI
Polarity	:Negative
Tuning Mode	:Auto Tuning
Tuning Date	:9/9/2021 12:27:13 PM
Acquisition Mode	:Product Ion Scan
Nebulizing Gas Flow	:1.50(settings : 1.50) L/min
Heating Gas Flow	:5.00(settings : 5.00) L/min
Interface Bias	:-3.00 kV
Interface Current	:9.66 uA
Interface Temp.	:100(settings : 100) C
DL Temp.	:250(settings : 250) C
Heat Block Temp.	:400(settings : 400) C
Q1 RF Gain	:5000
Q1 RF Offset	:5000
Q3 RF Gain	:4999
Q3 RF Offset	:5014
Q1 Post-rod Bias	:5.0 V
CID CELL Exit Lens	:0.3 V
Conversion Dynode	:+10.00 kV
Detector	:-2.28(-2.28) kV
Vacuum Pressure(QA)	:1.4e+02 Pa
Vacuum Pressure(QP)	:2.1e-03 Pa

Tuning Profile



Int.: 2428229	Int.: 2879906
FWHM: 0.65	FWHM: 0.76
m/z : 89.00	m/z : 179.05
Pre m/z: 503.15	Pre m/z: 503.15
Mag.: 8	Mag.: 6

Scan Range: 2.00 - 553.15 Scan Speed: 30 u/s Base Peak: 221.10 (4021235) Pre m/z: 503.15



m/z(Target)	m/z(Actual)	Difference	Width	Intensity
503.15 > 89.00	89.00	0.00	0.65	2428229
503.15 > 179.05	179.10	0.05	0.76	2879906

9/10/21

SEP

SEP 0 9 2021

C:¥LabSolutions¥Data¥Tune_Files¥Autotune_090821.lct

Ion ratio criteria calculation for calibration:

	0.05 PPB ICAL	0.10 PPB ICAL	0.50 PPB ICAL	1.0 PPB ICAL	5.0 PPB ICAL	10.0 PPB ICAL	15.0 PPB ICAL	Average of Ion Ratios	Standard Deviation of Ion Ratios	Expected Range (Average ± 3*SD) Lower	Upper	Expected Range as ±%	Expected within ± 50% of Average?	Acceptance Range (± 50%)
PFBS_1	49.92	48.86	49.82	47.75	50.29	49.18	49.57	49.34	0.85	46.80	51.88	5.2	Yes	24.67-74.01
PFPeS	130.08	152.57	157.11	162.89	154.13	150.99	151.34	151.30	10.23	120.61	182.00	20.3	Yes	75.65-226.95
PFHxS_1	46.4	70.39	66.68	65.14	64.56	64.27	63.02	62.92	7.66	39.93	85.91	36.5	Yes	31.46-94.38
PFHpS_1	39.06	39.82	41.28	39.99	41.97	40.13	41.43	40.53	1.05	37.39	43.66	7.7	Yes	20.26-60.79
PFOS_1	73.79	70.56	69.6	77.94	75.96	74.39	74.44	73.81	2.91	65.09	82.53	11.8	Yes	36.91-110.72
PFNS	160.12	171.73	170.16	139.81	159.87	159.67	160.4	160.25	10.39	129.07	191.44	19.5	Yes	80.13-240.38
PFDS_1	75.33	67.08	79.83	71.61	68.81	72	70.21	72.12	4.28	59.28	84.97	17.8	Yes	36.06-108.19
PFHxA	5.15	4.18	5.14	4.78	3.9	3.93	3.75	4.40	0.61	2.59	6.22	41.2	Yes	2.2-6.61
PFHpA	20.85	22.76	24.89	26.53	25.4	25.18	25.2	24.40	1.93	18.62	30.19	23.7	Yes	12.2-36.6
PFOA	36.89	30.74	31.73	30.9	31.38	30.9	30.67	31.89	2.24	25.17	38.60	21.1	Yes	15.94-47.83
PFNA	17.08	23	24.23	26.55	23.52	23.82	24.57	23.25	2.95	14.41	32.09	38.0	Yes	11.63-34.88
PFDA	20.42	16.34	21.51	20.88	21.1	21.38	20.05	20.24	1.80	14.85	25.63	26.6	Yes	10.12-30.36
PFUnA	10.99	11.51	14.52	11.74	12.68	12.78	13.02	12.46	1.18	8.94	15.99	28.3	Yes	6.23-18.69
PFDoA	16.11	13.04	17.22	15.78	18.49	17.2	17.69	16.50	1.78	11.16	21.85	32.4	Yes	8.25-24.76
PFTrDA	17.35	11.52	15.96	15.82	15.35	15.49	15.57	15.29	1.79	9.91	20.68	35.2	Yes	7.65-22.94
PFTeDA	20.53	17.42	17.4	16.93	16.89	16.64	16.46	17.47	1.40	13.28	21.66	24.0	Yes	8.73-26.2
FOSA	6.6	4.92	4.79	4.89	5.05	4.99	5.11	5.19	0.63	3.30	7.08	36.4	Yes	2.6-7.79
N-MeFOSA	69.44	72.65	69.19	69.42	70.58	68.67	69.65	69.94	1.32	65.97	73.92	5.7	Yes	34.97-104.91
N-EtFOSA	53.13	62.81	67.22	68.29	70.96	70.37	72.83	66.52	6.72	46.35	86.68	30.3	Yes	33.26-99.77
N-MeFOSAA	29.8	29.11	39.88	47.95	45.22	43.01	41.96	39.56	7.36	17.49	61.63	55.8	No	19.78-59.34
N-EtFOSAA	54.68	96.78	91.76	83.11	84.35	91.11	90.01	84.54	13.96	42.67	126.41	49.5	Yes	42.27-126.81
4_2-FTS_1	32.31	51.13	36.79	29.85	28.75	29.24	30.8	34.12	7.98	10.20	58.05	70.1	No	17.06-51.19
6_2-FTS_1	29.11	50.68	38.01	36.44	35.88	35.47	35.92	37.36	6.51	17.82	56.90	52.3	No	18.68-56.04
8_2-FTS_1	7.68	10.8	10.34	11.03	11.75	11.25	11.58	10.63	1.39	6.48	14.79	39.1	Yes	5.32-15.95
10_2-FtS_1	18.6	24.15	22.23	21.5	21.1	21.97	21.69	21.61	1.65	16.66	26.55	22.9	Yes	10.8-32.41
HPFO_DA	113.16	99.99	110.78	107.65	107.62	105.5	100.49	106.46	4.91	91.72	121.19	13.8	Yes	53.23-159.68

SEP 0 9 2021

Insight Report
Retention Time/Signal:Noise Ratio Confirmation
Printed 9/9/2021 16:28:51

210909_007

Sample ID: CCB
Date Acquired: 9/9/2021 1:44:34 PM
Acquired by: System Administrator
Data File: 210909_007
Vial: 9 | Inj. Volume: 15.0000uL | Tray: 1

Name	m/z	Ref 1 m/z	Found RT	RT Diff	ISTD RT Diff	S/N	Ref 1 S/N	Flag ID
13C7-PFUnDA_IS	570.00>525.00	----	5.120	0.003	----	1196	----	
PFBS_1	299.00>80.00	298.80>99.00	4.028	0.001	0.001	7	10	IRr, SN
PFBS-13C	301.80>80.00	----	4.027	-0.006	-1.093	(INF)	----	
PFBS-13C_IS	301.80>80.00	----	4.027	-0.006	----	(INF)	----	
PFPeS	349.00>99.00	349.00>79.95	----	----	----	----	----	
PFHxS_1	399.00>80.00	399.00>99.00	4.413	0.003	0.005	(INF)	31	IRr
PFHxS-18O	402.70>84.05	----	4.408	-0.002	-0.712	(INF)	----	
PFHxS-18O_IS	402.70>84.05	----	4.408	-0.002	----	(INF)	----	
PFHpS_1	449.00>80.15	449.00>99.20	----	----	----	----	----	
PFOS_1	499.00>80.00	499.00>99.00	4.740	0.002	-0.001	(INF)	(INF)	
PFOS-13C	502.80>80.05	----	4.741	0.002	-0.379	(INF)	----	
PFOS-13C_IS	502.80>80.05	----	4.741	0.002	----	(INF)	----	
PFNS	549.00>99.00	549.00>79.95	----	----	----	----	----	
PFDS_1	599.00>79.90	599.00>99.10	----	----	----	----	----	
PFBA	213.00>169.10	----	----	----	----	----	----	
PFBA-13C	216.90>172.15	----	3.403	-0.007	-1.717	676	----	
PFBA-13C_IS	216.90>172.15	----	3.403	-0.007	----	676	----	
PFPeA	263.05>219.10	----	----	----	----	----	----	
PFPeA-13C	267.90>223.00	----	3.973	0.000	-1.147	5207	----	
PFPeA-13C_IS	267.90>223.00	----	3.973	0.000	----	5207	----	
PFHxA	313.00>269.00	313.00>119.10	----	----	----	----	----	
PFHxA-13C	314.90>270.10	----	4.229	0.000	-0.891	14398	----	
PFHxA-13C_IS	314.90>270.10	----	4.229	0.000	----	14398	----	
PFHpA	362.90>319.00	362.90>169.00	----	----	----	----	----	
PFHpA-13C	366.90>322.10	----	4.409	-0.002	-0.711	17799	----	
PFHpA-13C_IS	366.90>322.10	----	4.409	-0.002	----	17799	----	
PFOA	413.00>369.00	413.00>169.10	4.569	-0.009	-0.010	45	27	
PFOA-13C	416.80>372.05	----	4.579	0.001	-0.541	45932	----	
PFOA-13C_IS	416.80>372.05	----	4.579	0.001	----	45932	----	
PFNA	463.00>418.90	463.00>219.00	----	----	----	----	----	
PFNA-13C	467.80>423.00	----	4.752	0.001	-0.368	83399	----	
PFNA-13C_IS	467.80>423.00	----	4.752	0.001	----	83399	----	
PFDA	513.00>468.80	513.00>219.10	----	----	----	----	----	
PFDA-13C	514.80>469.95	----	4.935	0.002	-0.185	18140	----	
PFDA-13C_IS	514.80>469.95	----	4.935	0.002	----	18140	----	
PFUnA	563.00>518.90	563.00>219.00	5.102	-0.016	-0.019	7	(INF)	IRr, SN
PFUnA-13C	564.80>519.95	----	5.121	0.003	0.001	966	----	
PFUnA-13C_IS	564.80>519.95	----	5.121	0.003	----	966	----	
PFDoA	613.05>569.00	613.05>169.00	----	----	----	----	----	
PFDoA-13C	614.80>569.95	----	5.301	0.004	0.181	(INF)	----	
PFDoA-13C_IS	614.80>569.95	----	5.301	0.004	----	(INF)	----	
PFTrDA	663.00>618.90	662.90>169.00	----	----	----	----	----	
PFTeDA	713.00>669.00	713.00>169.10	5.611	0.000	0.000	58	(INF)	
PFTeDA-13C	714.70>669.90	----	5.611	0.000	0.491	3509103	----	
PFTeDA-13C_IS	714.70>669.90	----	5.611	0.000	----	2691359	----	
FOSA	498.20>78.00	498.20>64.10	----	----	----	----	----	
FOSA-13C	506.00>78.05	----	5.225	0.006	0.105	2055	----	
FOSA-13C_IS	506.00>78.05	----	5.225	0.006	----	2055	----	
N-MeFOSA	512.00>169.10	512.00>219.00	5.615	0.006	0.006	4	3	IRr, SN
N-MeFOSA-d3	514.90>168.90	----	5.609	0.003	0.489	2886	----	
N-MeFOSA-d3_IS	514.90>168.90	----	5.609	0.003	----	2886	----	

J:\LCMS06\Data\210909_Curve\210909_Curve.DAMLP .

SN - Software-calculated S/N ratio outside criteria due to non-target peaks or drift in noise calculation window. Analyst review of noise levels (excluding non-target peaks) in chromatogram indicates S/N ratio meets criteria.

Insight Report
Retention Time/Signal:Noise Ratio Confirmation
Printed 9/9/2021 16:28:51

210909_007 (continued)

(Table continued from previous page)

Name	m/z	Ref 1 m/z	Found RT	RT Diff	ISTD RT Diff	S/N	Ref 1 S/N	Flag ID
N-EtFOSA	526.90>169.10	526.90>219.00	----	----	----	----	----	
N-EtFOSA-d9	530.90>169.15	----	5.732	0.002	0.612	2398	----	
N-EtFOSA-d9_IS	530.90>169.15	----	5.732	0.002	----	2398	----	
N-MeFOSE	616.00>59.00	----	----	----	----	----	----	
N-MeFOSE-d7	622.70>59.10	----	5.586	0.003	0.466	2418	----	
N-MeFOSE-d7_IS	622.70>59.10	----	5.586	0.003	----	2418	----	
N-EtFOSE	630.00>58.90	----	----	----	----	----	----	
N-EtFOSE-d9	638.70>59.10	----	5.704	0.003	0.584	4912	----	
N-EtFOSE-d9_IS	638.70>59.10	----	5.704	0.003	----	4912	----	
N-MeFOSAA	570.20>419.00	570.20>512.00	----	----	----	----	----	
N-MeFOSAA-d3	572.80>419.05	----	5.033	0.002	-0.088	(INF)	----	
N-MeFOSAA-d3_IS	572.80>419.05	----	5.033	0.002	----	(INF)	----	
N-EtFOSAA	584.20>418.95	584.20>526.10	----	----	----	----	----	
N-EtFOSAA-d5	588.80>419.00	----	5.132	0.004	0.012	(INF)	----	
N-EtFOSAA-d5_IS	588.80>419.00	----	5.132	0.004	----	(INF)	----	
4_2-FTS_1	327.00>307.05	327.00>81.10	4.201	-0.002	-0.004	(INF)	(INF)	IRr
4_2-FTS-13C	328.80>309.05	----	4.205	0.001	-0.915	(INF)	----	
4_2-FTS-13C_IS	328.80>309.05	----	4.205	0.001	----	(INF)	----	
6_2-FTS_1	427.00>407.00	427.00>80.90	4.559	-0.008	-0.010	(INF)	(INF)	IRr
6_2-FTS-13C	428.90>409.00	----	4.569	0.001	-0.551	(INF)	----	
6_2-FTS-13C_IS	428.90>409.00	----	4.569	0.001	----	(INF)	----	
8_2-FTS_1	527.10>506.90	527.20>487.00	----	----	----	----	----	
8_2-FTS-13C	528.80>509.00	----	4.934	0.002	-0.186	(INF)	----	
8_2-FTS-13C_IS	528.80>509.00	----	4.934	0.002	----	(INF)	----	
10_2-FtS_1	627.00>606.95	627.00>81.25	----	----	----	----	----	
HPFO_DA	329.00>169.00	329.00>285.10	----	----	----	----	----	
HFPO_DA-13C	332.00>286.80	----	4.297	0.001	-0.823	11121	----	
HFPO_DA-13C_IS	332.00>286.80	----	4.297	0.001	----	11121	----	

Flag ID key: IRr: Ion Ratio (Relative), SN: S/N

SN - Software-calculated S/N ratio outside criteria due to non-target peaks or drift in noise calculation window. Analyst review of noise levels (excluding non-target peaks) in chromatogram indicates S/N ratio meets criteria.

Insight Report
Ion Ratio Confirmation
Printed 9/9/2021 16:29:39

210909_007

Sample ID: CCB
Date Acquired: 9/9/2021 1:44:34 PM
Acquired by: System Administrator
Data File: 210909_007
Vial: 9 | Inj. Volume: 15.0000uL | Tray: 1

Name	m/z	Ref 1 m/z	Area	Ref 1 Measured	Ref 1 Actual Ratio	Ref 1 Set Ratio	Comment 1	Flag ID
13C7-PFUnDA_IS	570.00>525.00	----	4640845	----	----	----		
PFBS_1	299.00>80.00	298.80>99.00	139	164	117.99	49.34	24.67-74.01	IRr, SN
PFBS-13C	301.80>80.00	----	491521	----	----	----	0-0	
PFBS-13C_IS	301.80>80.00	----	491521	----	----	----	0-0	
PFPeS	349.00>99.00	349.00>79.95	----	0	0.00	151.30	75.65 -226.95	
PFHxS_1	399.00>80.00	399.00>99.00	1204	1231	102.26	62.92	31.46-94.38	IRr
PFHxS-18O	402.70>84.05	----	329349	----	----	----	0-0	
PFHxS-18O_IS	402.70>84.05	----	329349	----	----	----	0-0	
PFHpS_1	449.00>80.15	449.00>99.20	----	0	0.00	40.53	20.26-60.79	
PFOS_1	499.00>80.00	499.00>99.00	415	393	94.70	73.81	36.91 -110.72	
PFOS-13C	502.80>80.05	----	513292	----	----	----	0-0	
PFOS-13C_IS	502.80>80.05	----	513292	----	----	----	0-0	
PFNS	549.00>99.00	549.00>79.95	----	0	0.00	160.25	80.13 -240.38	
PFDS_1	599.00>79.90	599.00>99.10	----	0	0.00	72.12	36.06 -108.19	
PFBA	213.00>169.10	----	----	----	----	----		
PFBA-13C	216.90>172.15	----	1698315	----	----	----		
PFBA-13C_IS	216.90>172.15	----	1698315	----	----	----		
PFPeA	263.05>219.10	----	----	----	----	----		
PFPeA-13C	267.90>223.00	----	1000980	----	----	----	0-0	
PFPeA-13C_IS	267.90>223.00	----	1000980	----	----	----	0-0	
PFHxA	313.00>269.00	313.00>119.10	----	0	0.00	4.40	2.2-6.61	
PFHxA-13C	314.90>270.10	----	2697980	----	----	----	0-0	
PFHxA-13C_IS	314.90>270.10	----	2697980	----	----	----	0-0	
PFHpA	362.90>319.00	362.90>169.00	----	0	0.00	24.40	12.2-36.6	
PFHpA-13C	366.90>322.10	----	2510300	----	----	----	0-0	
PFHpA-13C_IS	366.90>322.10	----	2510300	----	----	----	0-0	
PFOA	413.00>369.00	413.00>169.10	25835	9297	35.99	31.89	15.94-47.83	
PFOA-13C	416.80>372.05	----	3589993	----	----	----	0-0	
PFOA-13C_IS	416.80>372.05	----	3589993	----	----	----	0-0	
PFNA	463.00>418.90	463.00>219.00	----	0	0.00	23.25	11.63-34.88	
PFNA-13C	467.80>423.00	----	3088922	----	----	----	0-0	
PFNA-13C_IS	467.80>423.00	----	3088922	----	----	----	0-0	
PFDA	513.00>468.80	513.00>219.10	----	0	0.00	20.24	10.12-30.36	
PFDA-13C	514.80>469.95	----	2164080	----	----	----	0-0	
PFDA-13C_IS	514.80>469.95	----	2164080	----	----	----	0-0	
PFUnA	563.00>518.90	563.00>219.00	623	471	75.69	12.46	6.23-18.69	IRr, SN
PFUnA-13C	564.80>519.95	----	3271232	----	----	----	0-0	
PFUnA-13C_IS	564.80>519.95	----	3271232	----	----	----	0-0	
PFDoA	613.05>569.00	613.05>169.00	----	0	0.00	16.50	8.25-24.76	
PFDoA-13C	614.80>569.95	----	3579545	----	----	----	0-0	
PFDoA-13C_IS	614.80>569.95	----	3579545	----	----	----	0-0	
PFTrDA	663.00>618.90	662.90>169.00	----	0	0.00	15.29	7.65-22.94	
PFTeDA	713.00>669.00	713.00>169.10	5035	455	9.03	17.47	8.73-26.2	
PFTeDA-13C	714.70>669.90	----	3605337	----	----	----	0-0	
PFTeDA-13C_IS	714.70>669.90	----	3605337	----	----	----	0-0	
FOSA	498.20>78.00	498.20>64.10	----	0	0.00	5.19	2.6-7.79	
FOSA-13C	506.00>78.05	----	1411249	----	----	----	0-0	

J:\LCMS06\Data\210909_Curve\210909_Curve.DAMLP .

Comment 1 field specifies acceptance range for Ref 1 ratio.
IRr - Ion ratio outside criteria. Exceedances for results above the MDL to be "K" flagged in the analytical report.

Insight Report
Ion Ratio Confirmation
Printed 9/9/2021 16:29:39

210909_007 (continued)

(Table continued from previous page)

Name	m/z	Ref 1 m/z	Area	Ref 1 Measured	Ref 1 Actual Ratio	Ref 1 Set Ratio	Comment 1	Flag ID
FOSA-13C_IS	506.00>78.05	----	1411249	----	----	----	0-0	
N-MeFOSA	512.00>169.10	512.00>219.00	811	247	30.46	69.94	34.97 -104.91	IRr, SN
N-MeFOSA-d3	514.90>168.90	----	324165	----	----	----	0-0	
N-MeFOSA-d3_IS	514.90>168.90	----	324165	----	----	----	0-0	
N-EtFOSA	526.90>169.10	526.90>219.00	----	0	0.00	66.52	33.26-99.77	
N-EtFOSA-d9	530.90>169.15	----	373835	----	----	----	0-0	
N-EtFOSA-d9_IS	530.90>169.15	----	373835	----	----	----	0-0	
N-MeFOSE	616.00>59.00	----	----	----	----	----		
N-MeFOSE-d7	622.70>59.10	----	499056	----	----	----		
N-MeFOSE-d7_IS	622.70>59.10	----	499056	----	----	----		
N-EtFOSE	630.00>58.90	----	----	----	----	----		
N-EtFOSE-d9	638.70>59.10	----	483636	----	----	----	0-0	
N-EtFOSE-d9_IS	638.70>59.10	----	483636	----	----	----	0-0	
N-MeFOSAA	570.20>419.00	570.20>512.00	----	0	0.00	39.56	19.78-59.34	
N-MeFOSAA-d3	572.80>419.05	----	532579	----	----	----	0-0	
N-MeFOSAA-d3_IS	572.80>419.05	----	532579	----	----	----	0-0	
N-EtFOSAA	584.20>418.95	584.20>526.10	----	0	0.00	84.54	42.27 -126.81	
N-EtFOSAA-d5	588.80>419.00	----	497072	----	----	----	0-0	
N-EtFOSAA-d5_IS	588.80>419.00	----	497072	----	----	----	0-0	
4_2-FTS_1	327.00>307.05	327.00>81.10	52	1282	2456.61	34.12	17.06-51.19	IRr
4_2-FTS-13C	328.80>309.05	----	569079	----	----	----	0-0	
4_2-FTS-13C_IS	328.80>309.05	----	569079	----	----	----	0-0	
6_2-FTS_1	427.00>407.00	427.00>80.90	22	222	1009.09	37.36	18.68-56.04	IRr
6_2-FTS-13C	428.90>409.00	----	514144	----	----	----	0-0	
6_2-FTS-13C_IS	428.90>409.00	----	514144	----	----	----	0-0	
8_2-FTS_1	527.10>506.90	527.20>487.00	----	0	0.00	10.63	5.32-15.95	
8_2-FTS-13C	528.80>509.00	----	349304	----	----	----	0-0	
8_2-FTS-13C_IS	528.80>509.00	----	349304	----	----	----	0-0	
10_2-FtS_1	627.00>606.95	627.00>81.25	----	0	0.00	21.61	10.8-32.41	
HPFO_DA	329.00>169.00	329.00>285.10	----	0	0.00	106.46	53.23 -159.68	
HFPO_DA-13C	332.00>286.80	----	512095	----	----	----		
HFPO_DA-13C_IS	332.00>286.80	----	512095	----	----	----		

Flag ID key: IRr: Ion Ratio (Relative), SN: S/N

Comment 1 field specifies acceptance range for Ref 1 ratio.
IRr - Ion ratio outside criteria. Exceedances for results above the MDL to be "K" flagged in the analytical report.

Insight Report
Quantitation/Integration
Printed 9/9/2021 16:33:46

210909_007

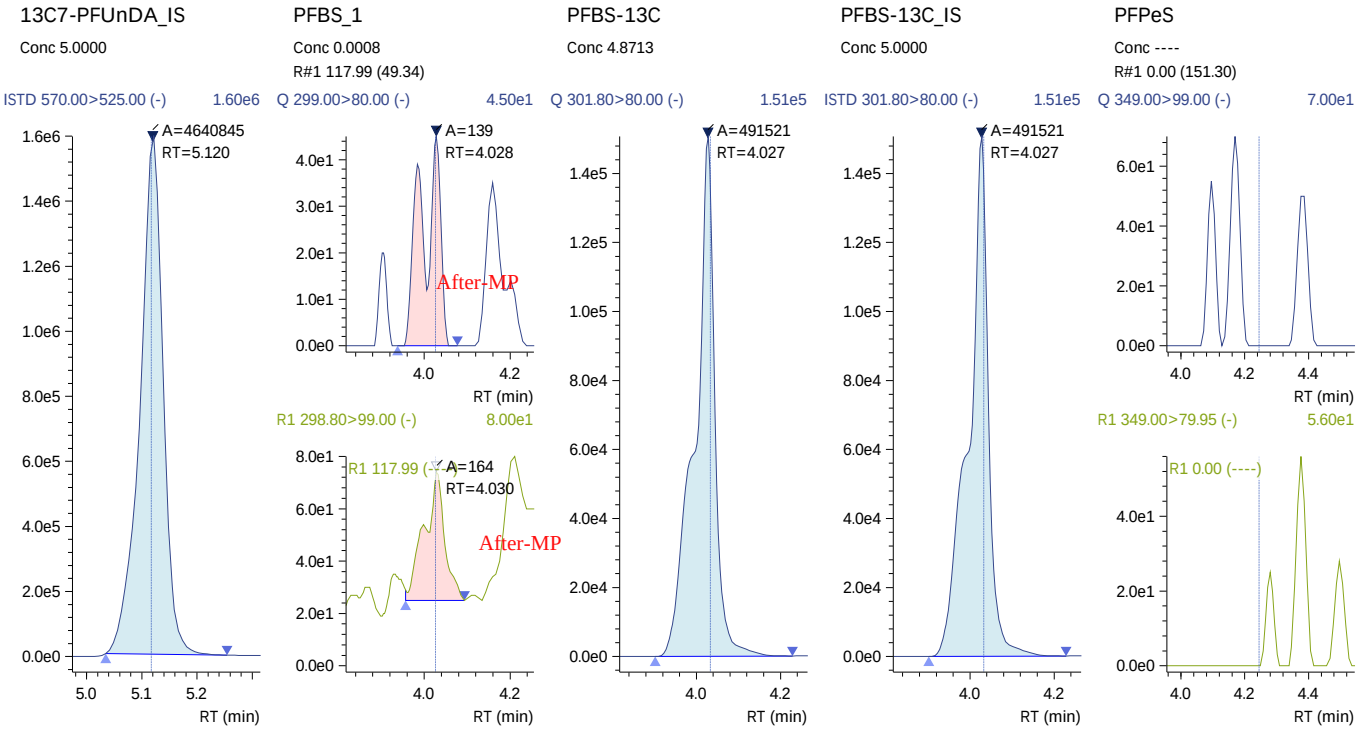
Sample ID: CCB
Date Acquired: 9/9/2021 1:44:34 PM
Acquired by: System Administrator
Data File: 210909_007
Vial: 9 | Inj. Volume: 15.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	ISTD Name	Std. Conc.	Conc.	Unit
13C7-PFUnDA_IS	Auto	5.120	4640845	4640845	----	----	5.0000	ng/mL
PFBS_1	M	4.028	139	491521	PFBS-13C_IS	----	0.0008	ng/mL
PFBS-13C	Auto	4.027	491521	4640845	13C7-PFUnDA_IS	----	4.8713	ng/mL
PFBS-13C_IS	Auto	4.027	491521	491521	----	----	5.0000	ng/mL
PFPeS	ND(W/B)	----	----	491521	PFBS-13C_IS	----	----	ng/mL
PFHxS_1	MI R1	4.413	1204	329349	PFHxS-18O_IS	----	-0.0100	ng/mL
PFHxS-18O	Auto	4.408	329349	4640845	13C7-PFUnDA_IS	----	4.5762	ng/mL
PFHxS-18O_IS	Auto	4.408	329349	329349	----	----	5.0000	ng/mL
PFHpS_1	ND(W/B)	----	----	329349	PFHxS-18O_IS	----	----	ng/mL
PFOS_1	Auto	4.740	415	513292	PFOS-13C_IS	----	0.0043	ng/mL
PFOS-13C	Auto	4.741	513292	4640845	13C7-PFUnDA_IS	----	5.2191	ng/mL
PFOS-13C_IS	Auto	4.741	513292	513292	----	----	5.0000	ng/mL
PFNS	ND(W/B)	----	----	513292	PFOS-13C_IS	----	----	ng/mL
PFDS_1	ND(W/B)	----	----	513292	PFOS-13C_IS	----	----	ng/mL
PFBA	ND(W/B)	----	----	1698315	PFBA-13C_IS	----	----	ng/mL
PFBA-13C	Auto	3.403	1698315	4640845	13C7-PFUnDA_IS	----	4.6916	ng/mL
PFBA-13C_IS	Auto	3.403	1698315	1698315	----	----	5.0000	ng/mL
PFPeA	ND(W/B)	----	----	1000980	PFPeA-13C_IS	----	----	ng/mL
PFPeA-13C	Auto	3.973	1000980	4640845	13C7-PFUnDA_IS	----	4.8384	ng/mL
PFPeA-13C_IS	Auto	3.973	1000980	1000980	----	----	5.0000	ng/mL
PFHxA	ND(W/B)	----	----	2697980	PFHxA-13C_IS	----	----	ng/mL
PFHxA-13C	Auto	4.229	2697980	4640845	13C7-PFUnDA_IS	----	4.5959	ng/mL
PFHxA-13C_IS	Auto	4.229	2697980	2697980	----	----	5.0000	ng/mL
PFHpA	ND(W/B)	----	----	2510300	PFHpA-13C_IS	----	----	ng/mL
PFHpA-13C	Auto	4.409	2510300	4640845	13C7-PFUnDA_IS	----	4.7152	ng/mL
PFHpA-13C_IS	Auto	4.409	2510300	2510300	----	----	5.0000	ng/mL
PFOA	MI R1	4.569	25835	3589993	PFOA-13C_IS	----	0.0262	ng/mL
PFOA-13C	Auto	4.579	3589993	4640845	13C7-PFUnDA_IS	----	5.0440	ng/mL
PFOA-13C_IS	Auto	4.579	3589993	3589993	----	----	5.0000	ng/mL
PFNA	ND(W/B)	----	----	3088922	PFNA-13C_IS	----	----	ng/mL
PFNA-13C	Auto	4.752	3088922	4640845	13C7-PFUnDA_IS	----	5.0374	ng/mL
PFNA-13C_IS	Auto	4.752	3088922	3088922	----	----	5.0000	ng/mL
PFDA	ND(W/B)	----	----	2164080	PFDA-13C_IS	----	----	ng/mL
PFDA-13C	Auto	4.935	2164080	4640845	13C7-PFUnDA_IS	----	5.0760	ng/mL
PFDA-13C_IS	Auto	4.935	2164080	2164080	----	----	5.0000	ng/mL
PFUnA	M	5.102	623	3271232	PFUnA-13C_IS	----	0.0009	ng/mL
PFUnA-13C	Auto	5.121	3271232	4640845	13C7-PFUnDA_IS	----	5.0888	ng/mL
PFUnA-13C_IS	Auto	5.121	3271232	3271232	----	----	5.0000	ng/mL
PFDoA	ND(W/B)	----	----	3579545	PFDoA-13C_IS	----	----	ng/mL
PFDoA-13C	Auto	5.301	3579545	4640845	13C7-PFUnDA_IS	----	5.0483	ng/mL
PFDoA-13C_IS	Auto	5.301	3579545	3579545	----	----	5.0000	ng/mL
PFTrDA	ND(W/B)	----	----	3605337	PFTeDA-13C_IS	----	----	ng/mL
PFTeDA	M	5.611	5035	3605337	PFTeDA-13C_IS	----	0.0063	ng/mL
PFTeDA-13C	Auto	5.611	3605337	4640845	13C7-PFUnDA_IS	----	5.0677	ng/mL
PFTeDA-13C_IS	Auto	5.611	3605337	3605337	----	----	5.0000	ng/mL
FOSA	ND(W/B)	----	----	1411249	FOSA-13C_IS	----	----	ng/mL
FOSA-13C	Auto	5.225	1411249	4640845	13C7-PFUnDA_IS	----	4.7809	ng/mL
FOSA-13C_IS	Auto	5.225	1411249	1411249	----	----	5.0000	ng/mL
N-MeFOSA	M	5.615	811	324165	N-MeFOSA-d3_IS	----	0.0066	ng/mL
N-MeFOSA-d3	Auto	5.609	324165	4640845	13C7-PFUnDA_IS	----	4.8944	ng/mL
N-MeFOSA-d3_IS	Auto	5.609	324165	324165	----	----	5.0000	ng/mL
N-EtFOSA	ND(W/B)	----	----	373835	N-EtFOSA-d9_IS	----	----	ng/mL
N-EtFOSA-d9	Auto	5.732	373835	4640845	13C7-PFUnDA_IS	----	4.8450	ng/mL
N-EtFOSA-d9_IS	Auto	5.732	373835	373835	----	----	5.0000	ng/mL

210909_007 (continued)

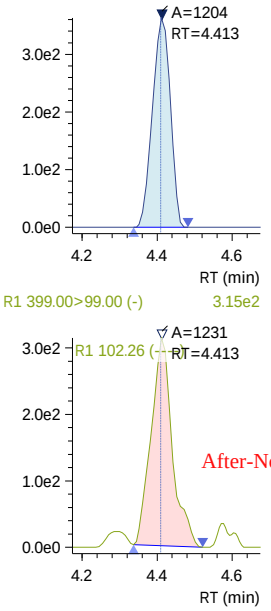
(Table continued from previous page)

Name	Mode ID	Found RT	Area	ISTD Area	ISTD Name	Std. Conc.	Conc.	Unit
N-MeFOSE	ND(W/B)	----	----	499056	N-MeFOSE-d7_IS	----	----	ng/mL
N-MeFOSE-d7	Auto	5.586	499056	4640845	13C7-PFUnDA_IS	----	4.8934	ng/mL
N-MeFOSE-d7_IS	Auto	5.586	499056	499056	----	----	5.0000	ng/mL
N-EtFOSE	ND(W/B)	----	----	483636	N-EtFOSE-d9_IS	----	----	ng/mL
N-EtFOSE-d9	Auto	5.704	483636	4640845	13C7-PFUnDA_IS	----	5.0076	ng/mL
N-EtFOSE-d9_IS	Auto	5.704	483636	483636	----	----	5.0000	ng/mL
N-MeFOSAA	ND(W/B)	----	----	532579	N-MeFOSAA-d3_IS	----	----	ng/mL
N-MeFOSAA-d3	Auto	5.033	532579	4640845	13C7-PFUnDA_IS	----	4.5455	ng/mL
N-MeFOSAA-d3_IS	Auto	5.033	532579	532579	----	----	5.0000	ng/mL
N-EtFOSAA	ND(W/B)	----	----	497072	N-EtFOSAA-d5_IS	----	----	ng/mL
N-EtFOSAA-d5	Auto	5.132	497072	4640845	13C7-PFUnDA_IS	----	5.0171	ng/mL
N-EtFOSAA-d5_IS	Auto	5.132	497072	497072	----	----	5.0000	ng/mL
4_2-FTS_1	M	4.201	52	569079	4_2-FTS-13C_IS	----	0.0005	ng/mL
4_2-FTS-13C	Auto	4.205	569079	4640845	13C7-PFUnDA_IS	----	5.1823	ng/mL
4_2-FTS-13C_IS	Auto	4.205	569079	569079	----	----	5.0000	ng/mL
6_2-FTS_1	M	4.559	22	514144	6_2-FTS-13C_IS	----	0.0002	ng/mL
6_2-FTS-13C	Auto	4.569	514144	4640845	13C7-PFUnDA_IS	----	5.5416	ng/mL
6_2-FTS-13C_IS	Auto	4.569	514144	514144	----	----	5.0000	ng/mL
8_2-FTS_1	ND(W/B)	----	----	349304	8_2-FTS-13C_IS	----	----	ng/mL
8_2-FTS-13C	Auto	4.934	349304	4640845	13C7-PFUnDA_IS	----	5.1790	ng/mL
8_2-FTS-13C_IS	Auto	4.934	349304	349304	----	----	5.0000	ng/mL
10_2-FtS_1	ND(W/B)	----	----	349304	8_2-FTS-13C_IS	----	----	ng/mL
HPFO_DA	ND(W/B)	----	----	512095	HFPO_DA-13C_IS	----	----	ng/mL
HFPO_DA-13C	Auto	4.297	512095	4640845	13C7-PFUnDA_IS	----	5.1495	ng/mL
HFPO_DA-13C_IS	Auto	4.297	512095	512095	----	----	5.0000	ng/mL

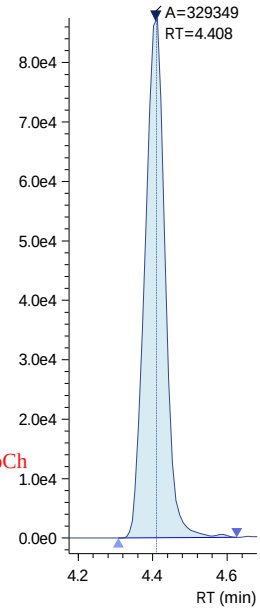


210909_007 (continued)

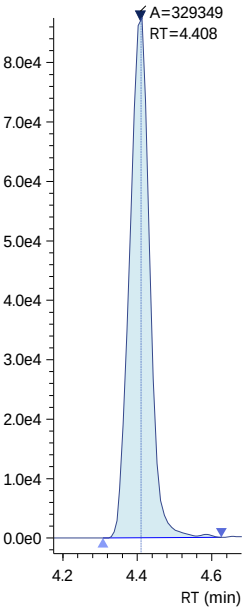
PFHxS_1
Conc -0.0100
R#1 102.26 (62.92)
Q 399.00>80.00 (-) 3.63e2
R1 399.00>99.00 (-) 3.15e2



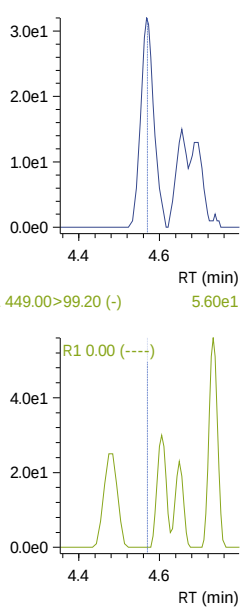
PFHxS-18O
Conc 4.5762
Q 402.70>84.05 (-) 8.75e4



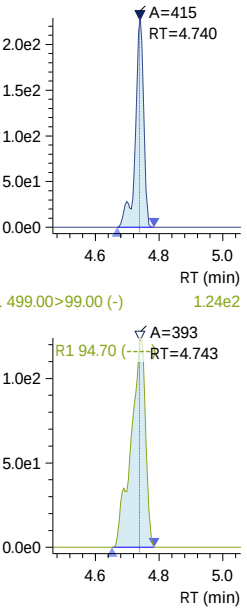
PFHxS-18O_IS
Conc 5.0000
ISTD 402.70>84.05 (-) 8.75e4



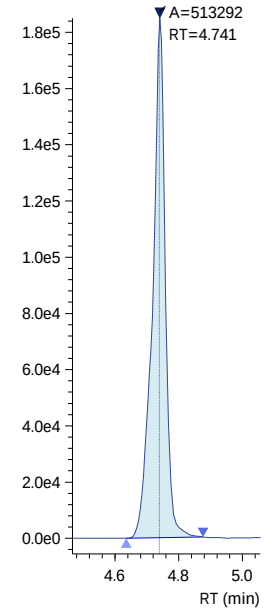
PFHpS_1
Conc ----
R#1 0.00 (40.53)
Q 449.00>80.15 (-) 3.20e1
R1 449.00>99.20 (-) 5.60e1



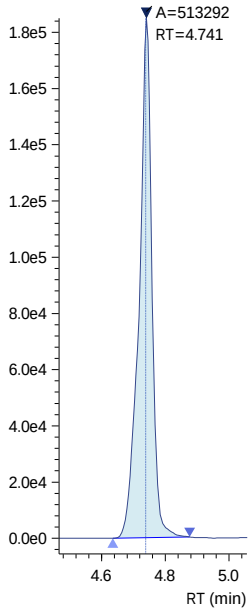
PFOS_1
Conc 0.0043
R#1 94.70 (73.81)
Q 499.00>80.00 (-) 2.29e2
R1 499.00>99.00 (-) 1.24e2



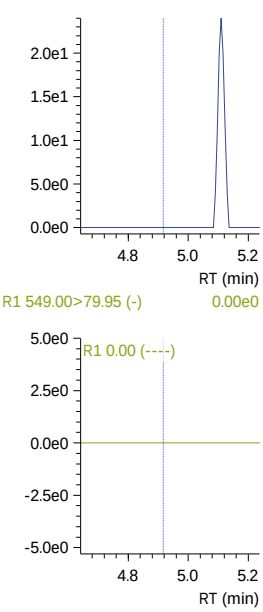
PFOS-13C
Conc 5.2191
Q 502.80>80.05 (-) 1.85e5



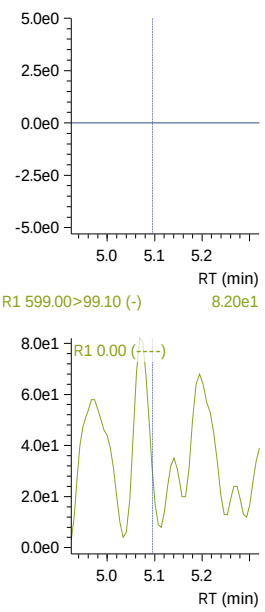
PFOS-13C_IS
Conc 5.0000
ISTD 502.80>80.05 (-) 1.85e5



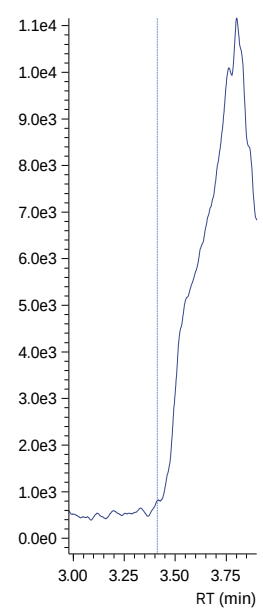
PFNS
Conc ----
R#1 0.00 (160.25)
Q 549.00>99.00 (-) 2.40e1
R1 549.00>79.95 (-) 0.00e0



PFDS_1
Conc ----
R#1 0.00 (72.12)
Q 599.00>79.90 (-) 0.00e0
R1 599.00>99.10 (-) 8.20e1

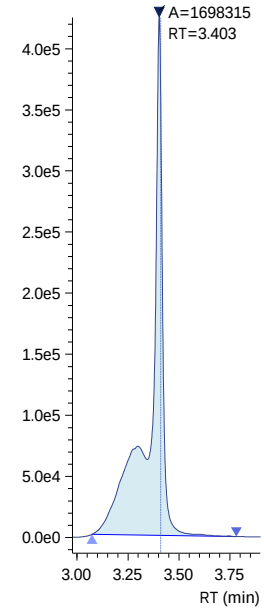


PFBA
Conc ----
Q 213.00>169.10 (-) 1.12e4

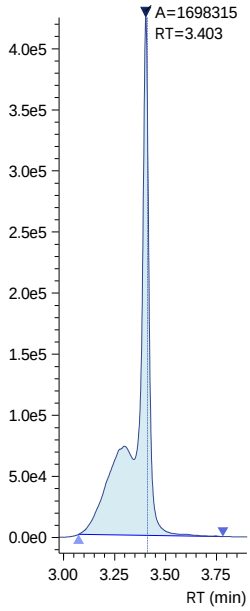


210909_007 (continued)

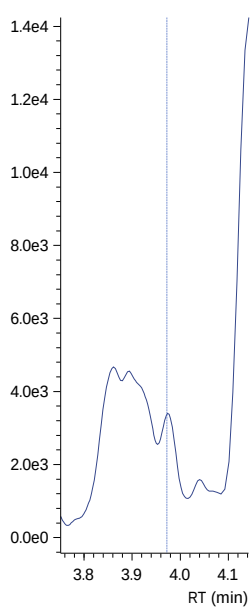
PFBA-13C
Conc 4.6916
Q 216.90>172.15 (-) 4.26e5



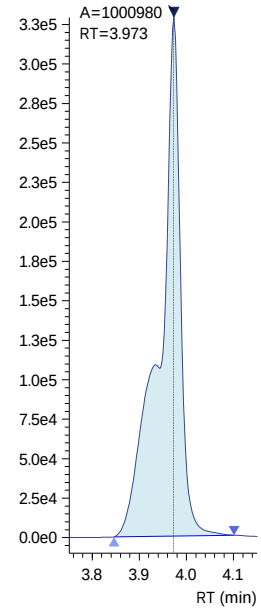
PFBA-13C_IS
Conc 5.0000
ISTD 216.90>172.15 (-) 4.26e5



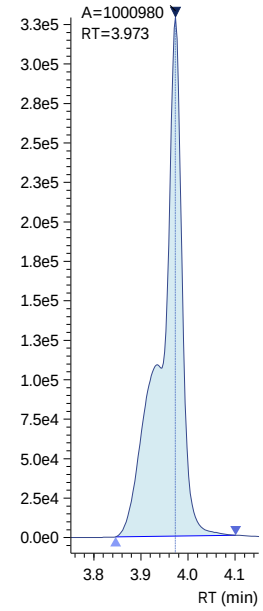
PFPeA
Conc ----
Q 263.05>219.10 (-) 1.42e4



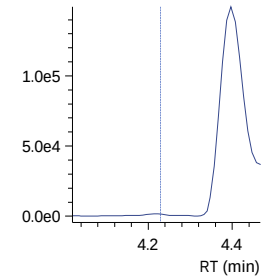
PFPeA-13C
Conc 4.8384
Q 267.90>223.00 (-) 3.29e5



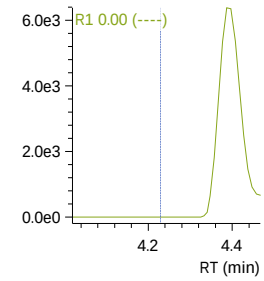
PFPeA-13C_IS
Conc 5.0000
ISTD 267.90>223.00 (-) 3.29e5



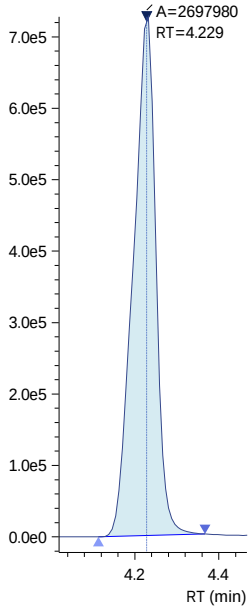
PFHxA
Conc ----
R#1 0.00 (4.40)
Q 313.00>269.00 (-) 1.49e5



R1 313.00>119.10 (-) 6.39e3



PFHxA-13C
Conc 4.5959
Q 314.90>270.10 (-) 7.28e5



PFHxA-13C_IS
Conc 5.0000
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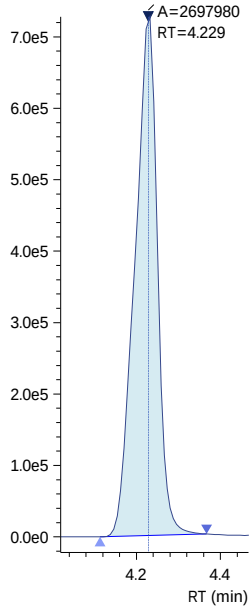
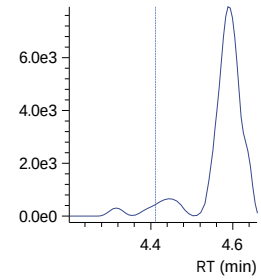
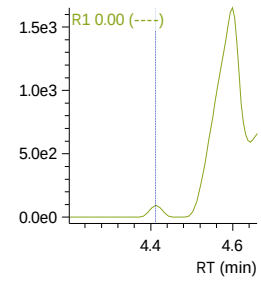


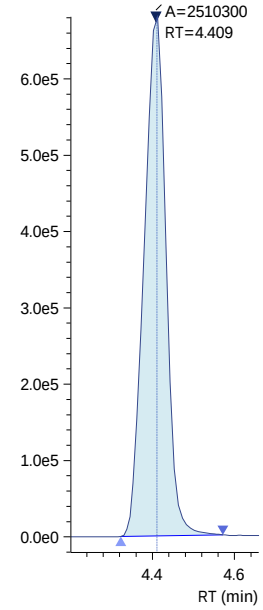
PFHpA
Conc ----
R#1 0.00 (24.40)
Q 362.90>319.00 (-) 7.93e3



R1 362.90>169.00 (-) 1.65e3

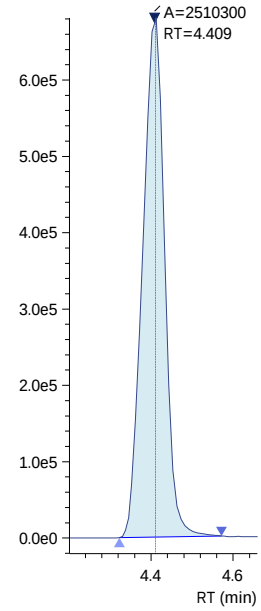


PFHpA-13C
Conc 4.7152
Q 366.90>322.10 (-) 6.81e5

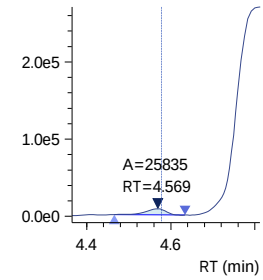


210909_007 (continued)

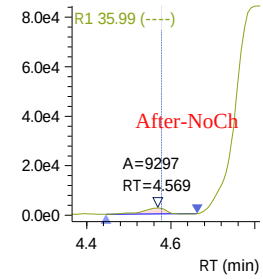
PFHpA-13C_IS
Conc 5.0000
ISTD 366.90>322.10 (-) 6.81e5



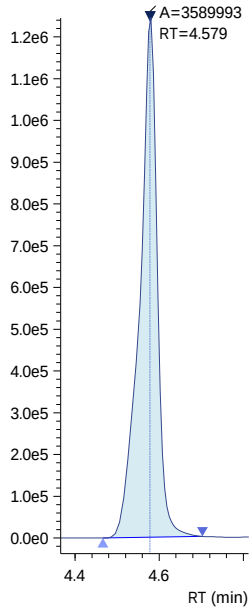
PFOA
Conc 0.0262
R#1 35.99 (31.89)
Q 413.00>369.00 (-) 2.71e5



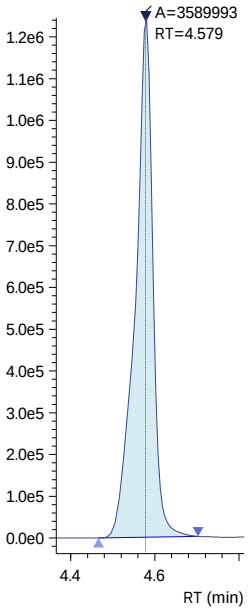
R1 413.00>169.10 (-) 8.45e4



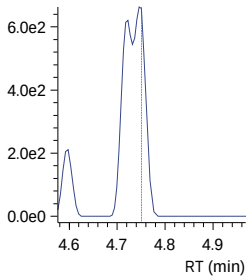
PFOA-13C
Conc 5.0440
Q 416.80>372.05 (-) 1.25e6



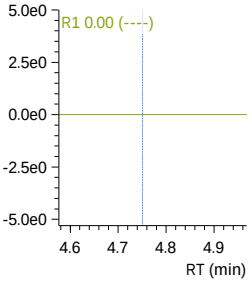
PFOA-13C_IS
Conc 5.0000
ISTD 416.80>372.05 (-) 1.25e6



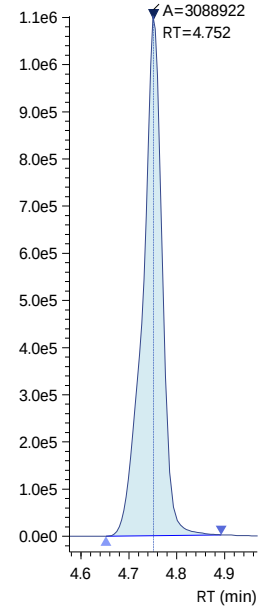
PFNA
Conc ----
R#1 0.00 (23.25)
Q 463.00>418.90 (-) 6.63e2



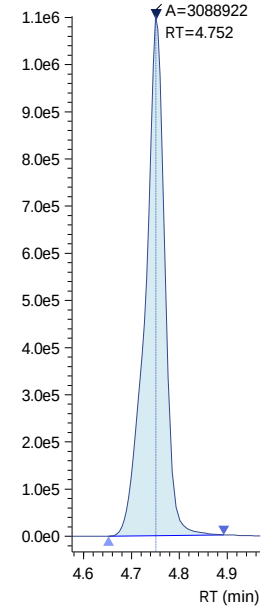
R1 463.00>219.00 (-) 0.00e0



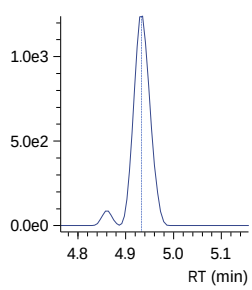
PFNA-13C
Conc 5.0374
Q 467.80>423.00 (-) 1.10e6



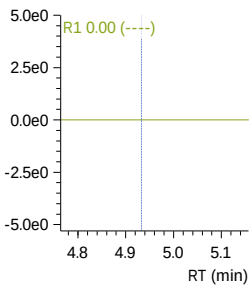
PFNA-13C_IS
Conc 5.0000
ISTD 467.80>423.00 (-) 1.10e6



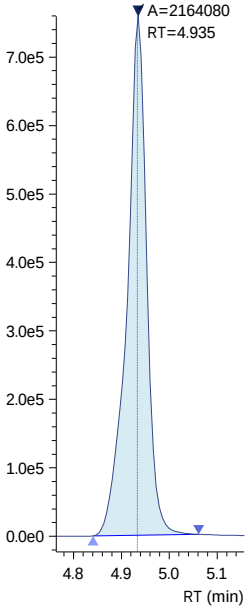
PFDA
Conc ----
R#1 0.00 (20.24)
Q 513.00>468.80 (-) 1.24e3



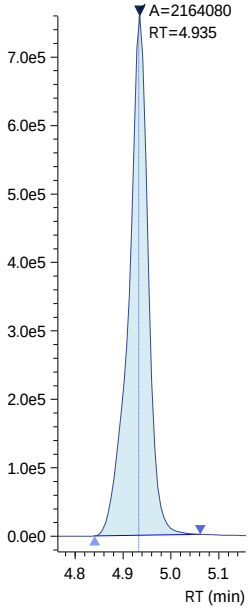
R1 513.00>219.10 (-) 0.00e0



PFDA-13C
Conc 5.0760
Q 514.80>469.95 (-) 7.60e5

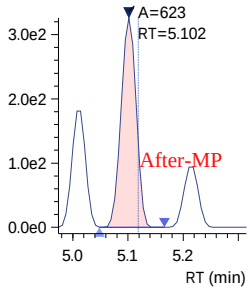


PFDA-13C_IS
Conc 5.0000
ISTD 514.80>469.95 (-) 7.60e5

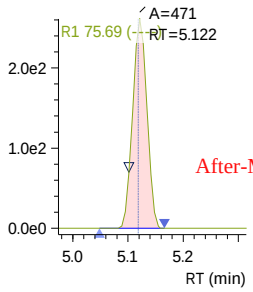


210909_007 (continued)

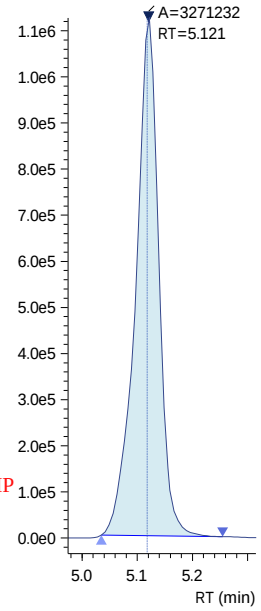
PFUnA
Conc 0.0009
R#1 75.69 (12.46)
Q 563.00>518.90 (-) 3.26e2



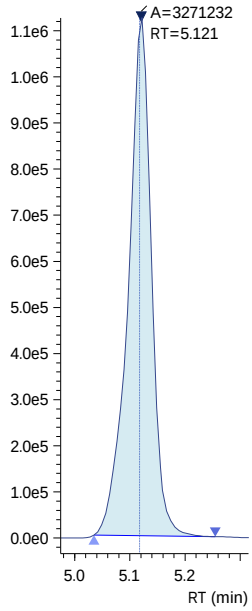
R1 563.00>219.00 (-) 2.61e2



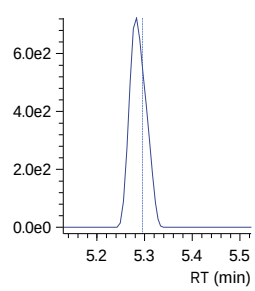
PFUnA-13C
Conc 5.0888
Q 564.80>519.95 (-) 1.13e6



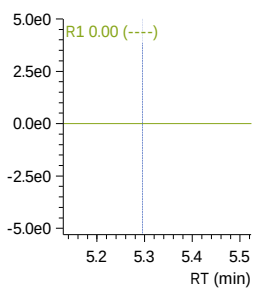
PFUnA-13C_IS
Conc 5.0000
ISTD 564.80>519.95 (-) 1.13e6



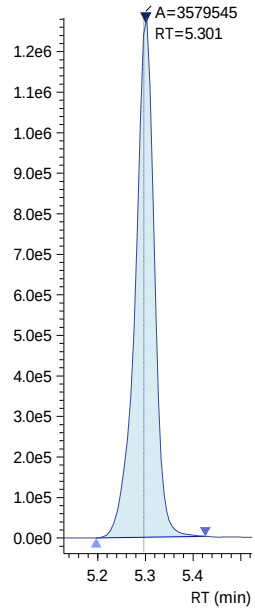
PFDoA
Conc ----
R#1 0.00 (16.50)
Q 613.05>569.00 (-) 7.23e2



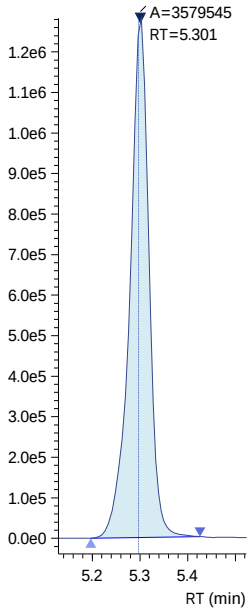
R1 613.05>169.00 (-) 0.00e0



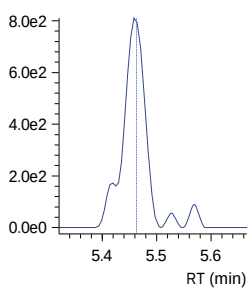
PFDoA-13C
Conc 5.0483
Q 614.80>569.95 (-) 1.28e6



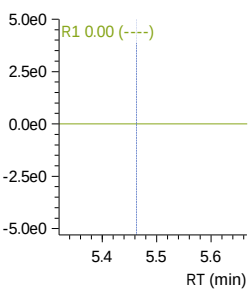
PFDoA-13C_IS
Conc 5.0000
ISTD 614.80>569.95 (-) 1.28e6



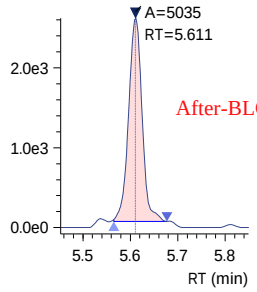
PFTrDA
Conc ----
R#1 0.00 (15.29)
Q 663.00>618.90 (-) 8.10e2



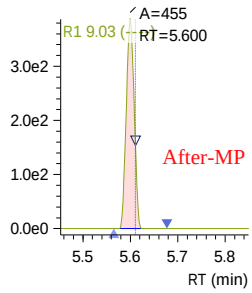
R1 662.90>169.00 (-) 0.00e0



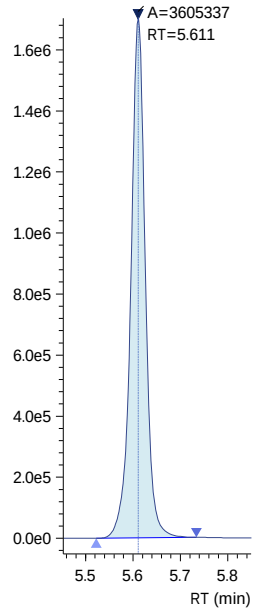
PFTeDA
Conc 0.0063
R#1 9.03 (17.47)
Q 713.00>669.00 (-) 2.62e3



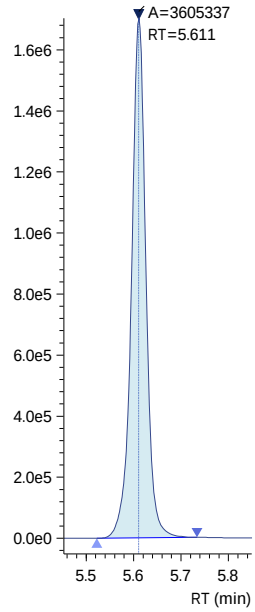
R1 713.00>169.10 (-) 3.87e2



PFTeDA-13C
Conc 5.0677
Q 714.70>669.90 (-) 1.70e6

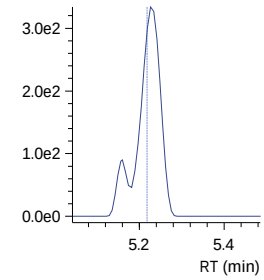


PFTeDA-13C_IS
Conc 5.0000
ISTD 714.70>669.90 (-) 1.70e6

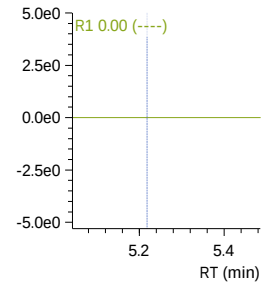


210909_007 (continued)

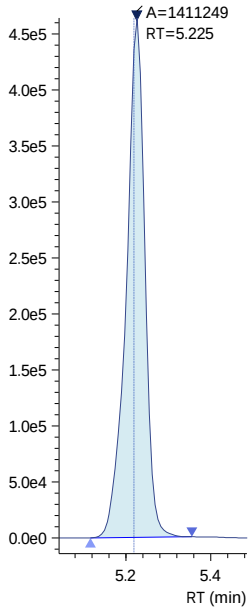
FOSA
Conc ----
R#1 0.00 (5.19)
Q 498.20>78.00 (-) 3.34e2



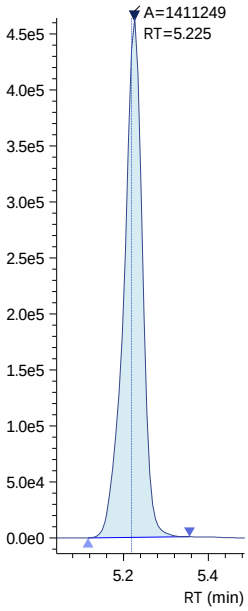
R1 498.20>64.10 (-) 0.00e0



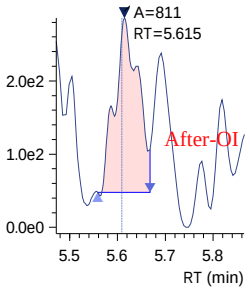
FOSA-13C
Conc 4.7809
Q 506.00>78.05 (-) 4.64e5



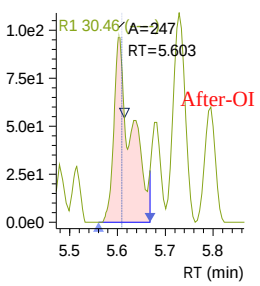
FOSA-13C_IS
Conc 5.0000
ISTD 506.00>78.05 (-) 4.64e5



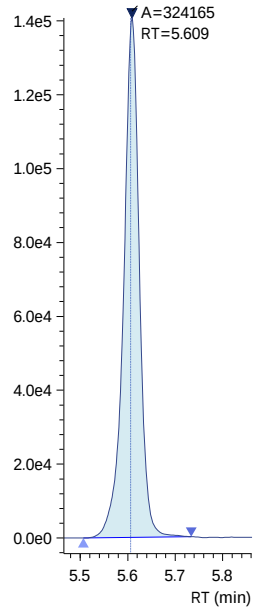
N-MeFOSA
Conc 0.0066
R#1 30.46 (69.94)
Q 512.00>169.10 (-) 2.86e2



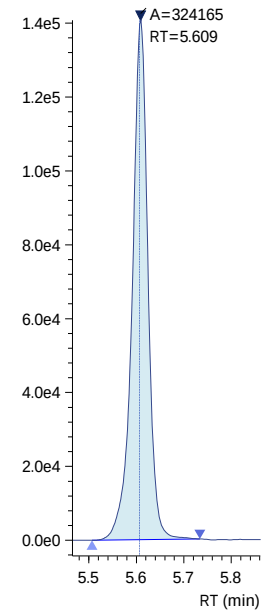
R1 512.00>219.00 (-) 1.09e2



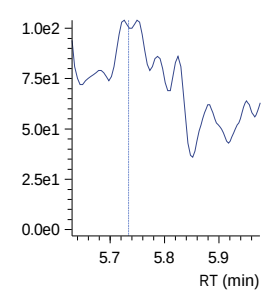
N-MeFOSA-d3
Conc 4.8944
Q 514.90>168.90 (-) 1.41e5



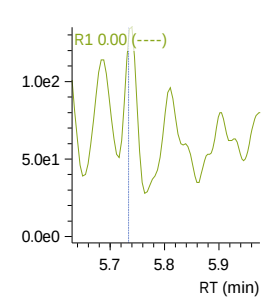
N-MeFOSA-d3_IS
Conc 5.0000
ISTD 514.90>168.90 (-) 1.41e5



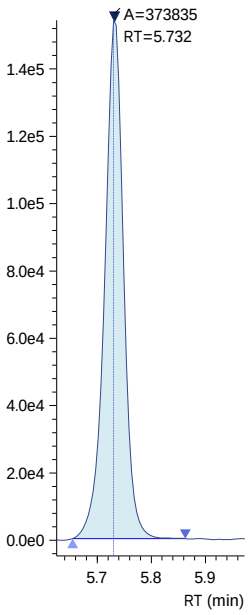
N-EtFOSA
Conc ----
R#1 0.00 (66.52)
Q 526.90>169.10 (-) 1.04e2



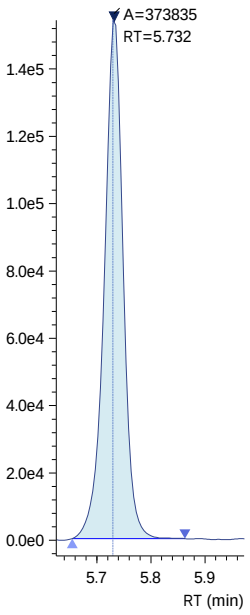
R1 526.90>219.00 (-) 1.35e2



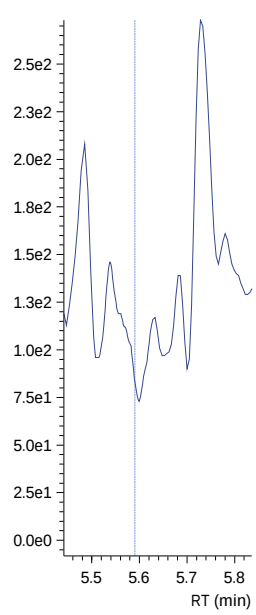
N-EtFOSA-d9
Conc 4.8450
Q 530.90>169.15 (-) 1.54e5



N-EtFOSA-d9_IS
Conc 5.0000
ISTD 530.90>169.15 (-) 1.54e5

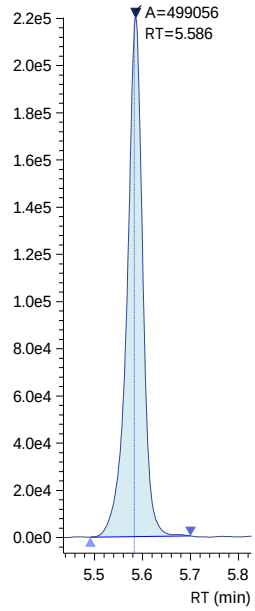


N-MeFOSE
Conc ----
Q 616.00>59.00 (-) 2.73e2

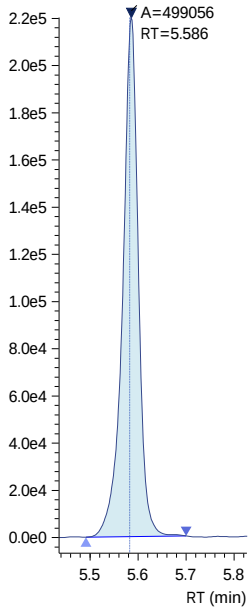


210909_007 (continued)

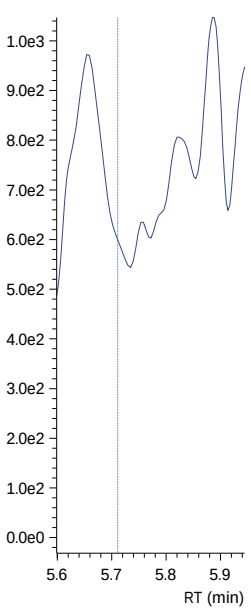
N-MeFOSE-d7
Conc 4.8934
Q 622.70>59.10 (-) 2.20e5



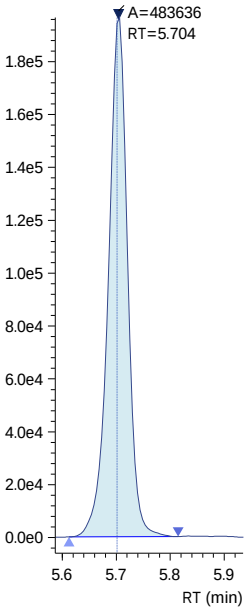
N-MeFOSE-d7_IS
Conc 5.0000
ISTD 622.70>59.10 (-) 2.20e5



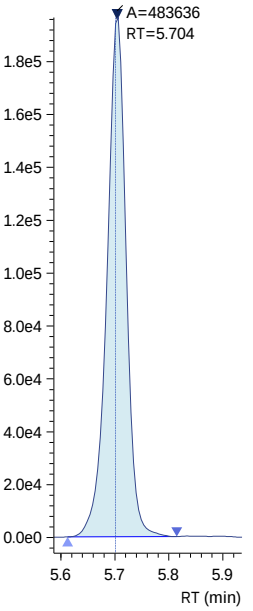
N-EtFOSE
Conc ----
Q 630.00>58.90 (-) 1.05e3



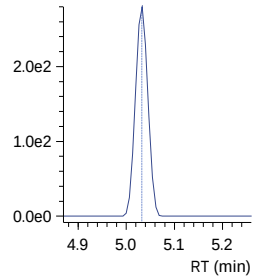
N-EtFOSE-d9
Conc 5.0076
Q 638.70>59.10 (-) 1.97e5



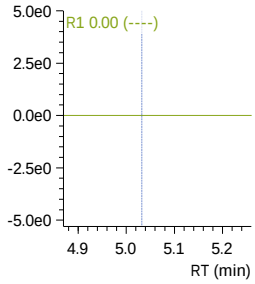
N-EtFOSE-d9_IS
Conc 5.0000
ISTD 638.70>59.10 (-) 1.97e5



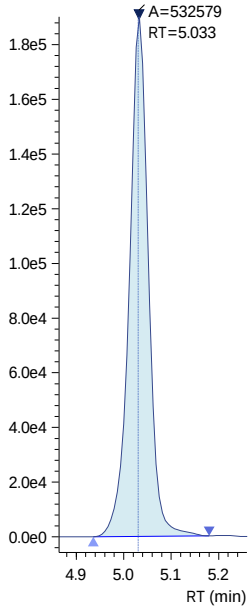
N-MeFOSAA
Conc ----
R#1 0.00 (39.56)
Q 570.20>419.00 (-) 2.80e2



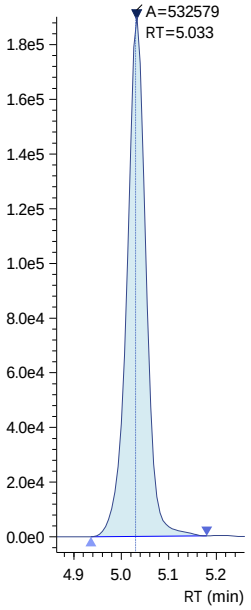
R1 570.20>512.00 (-) 0.00e0



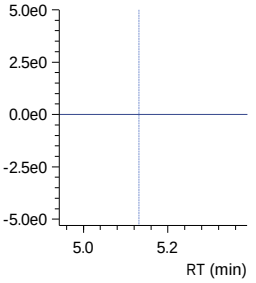
N-MeFOSAA-d3
Conc 4.5455
Q 572.80>419.05 (-) 1.90e5



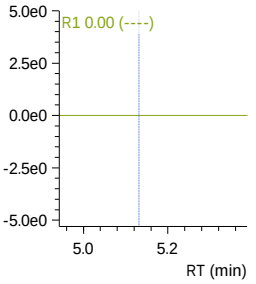
N-MeFOSAA-d3_IS
Conc 5.0000
ISTD 572.80>419.05 (-) 1.90e5



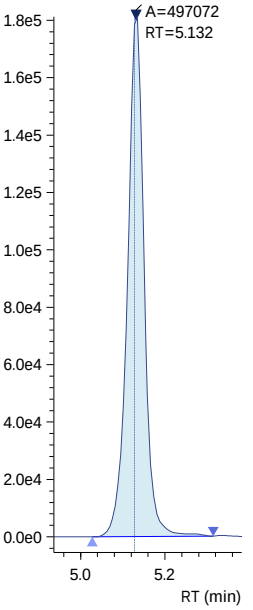
N-EtFOSAA
Conc ----
R#1 0.00 (84.54)
Q 584.20>418.95 (-) 0.00e0



R1 584.20>526.10 (-) 0.00e0

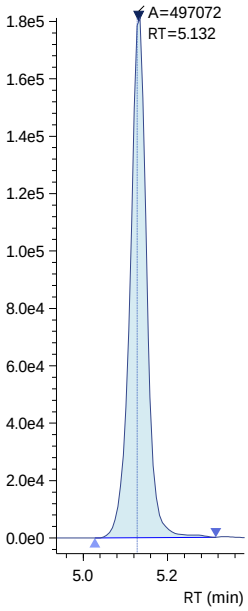


N-EtFOSAA-d5
Conc 5.0171
Q 588.80>419.00 (-) 1.81e5

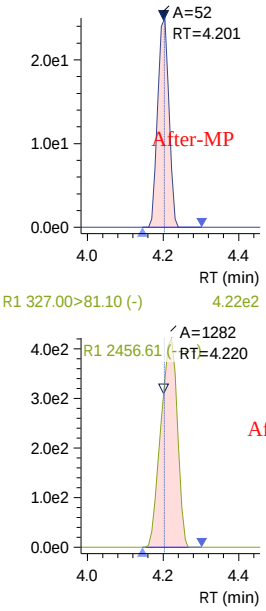


210909_007 (continued)

N-EtFOSAA-d5_IS
Conc 5.0000
ISTD 588.80>419.00 (-) 1.81e5

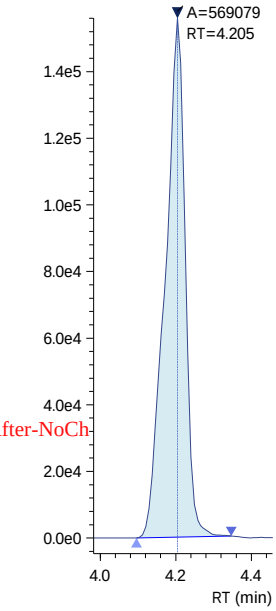


4_2-FTS_1
Conc 0.0005
R#1 2456.61 (34.12)
Q 327.00>307.05 (-) 2.50e1

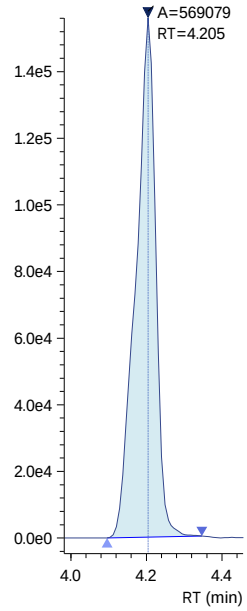


R1 327.00>81.10 (-) 4.22e2

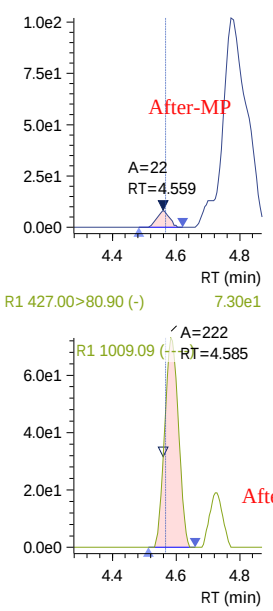
4_2-FTS-13C
Conc 5.1823
Q 328.80>309.05 (-) 1.56e5



4_2-FTS-13C_IS
Conc 5.0000
ISTD 328.80>309.05 (-) 1.56e5

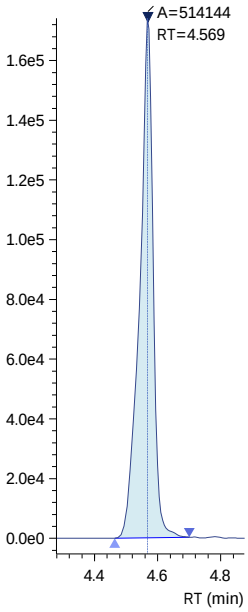


6_2-FTS_1
Conc 0.0002
R#1 1009.09 (37.36)
Q 427.00>407.00 (-) 1.02e2

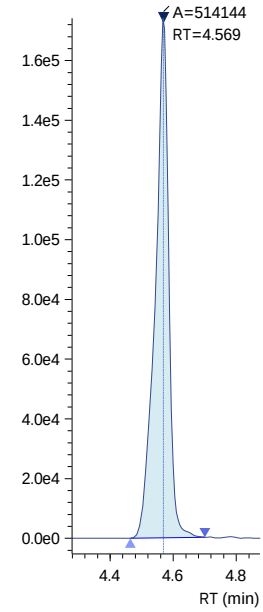


R1 427.00>80.90 (-) 7.30e1

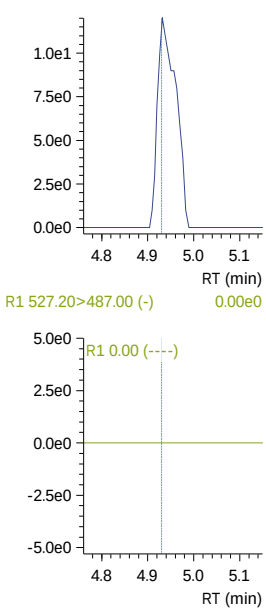
6_2-FTS-13C
Conc 5.5416
Q 428.90>409.00 (-) 1.74e5



6_2-FTS-13C_IS
Conc 5.0000
ISTD 428.90>409.00 (-) 1.74e5

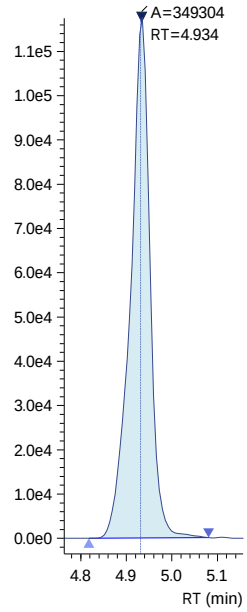


8_2-FTS_1
Conc ----
R#1 0.00 (10.63)
Q 527.10>506.90 (-) 1.20e1

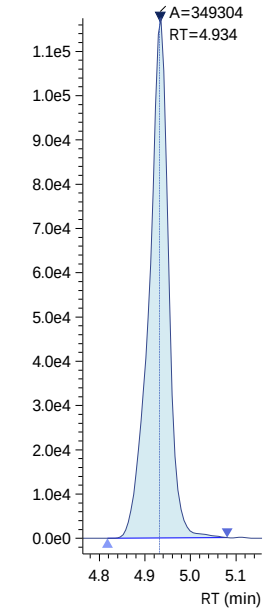


R1 527.20>487.00 (-) 0.00e0

8_2-FTS-13C
Conc 5.1790
Q 528.80>509.00 (-) 1.17e5

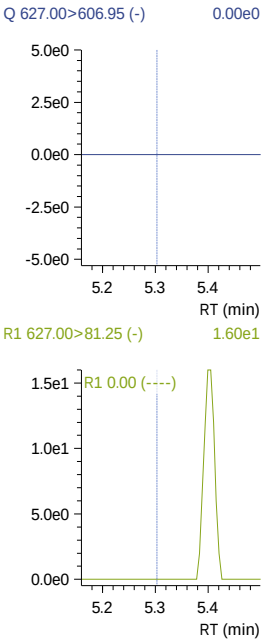


8_2-FTS-13C_IS
Conc 5.0000
ISTD 528.80>509.00 (-) 1.17e5

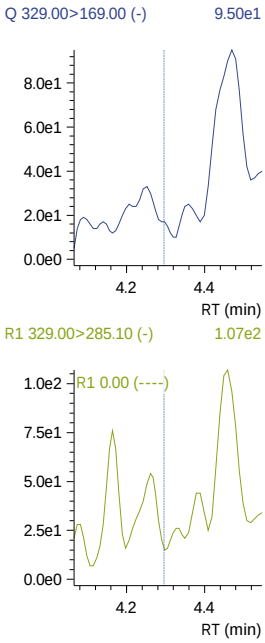


210909_007 (continued)

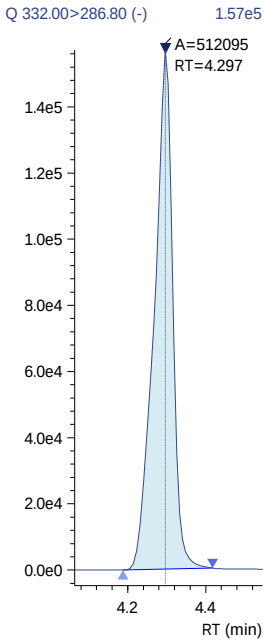
10_2-FtS_1
Conc ----
R#1 0.00 (21.61)



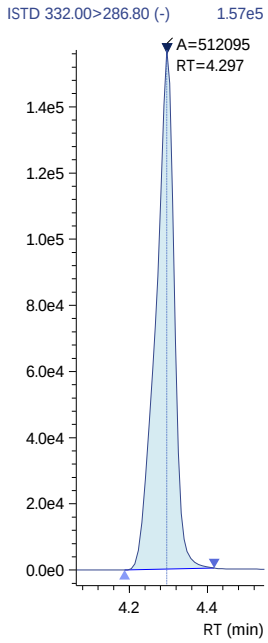
HPFO_DA
Conc ----
R#1 0.00 (106.46)



HFPO_DA-13C
Conc 5.1495



HFPO_DA-13C_IS
Conc 5.0000

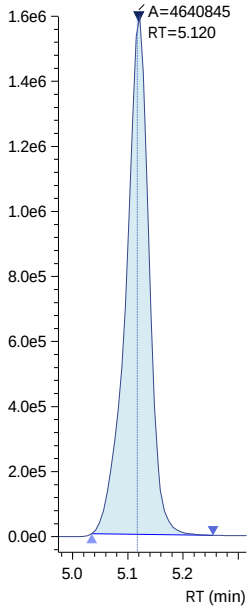


Insight Report
Before Manual Integration
Printed 9/9/2021 15:44:22

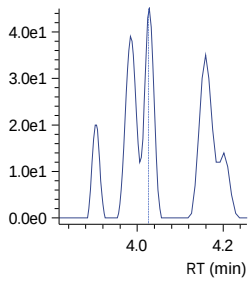
210909_007

Sample ID: CCB
Date Acquired: 9/9/2021 1:44:34 PM
Acquired by: System Administrator
Data File: 210909_007
Vial: 9 | Inj. Volume: 15.0000uL | Tray: 1

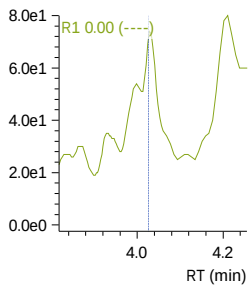
13C7-PFUnDA_IS
Conc 5.0000
ISTD 570.00>525.00 (-) 1.60e6



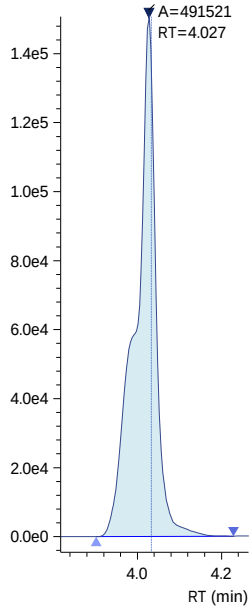
PFBS_1
Conc ----
R#1 0.00 (46.55)
Q 299.00>80.00 (-) 4.50e1



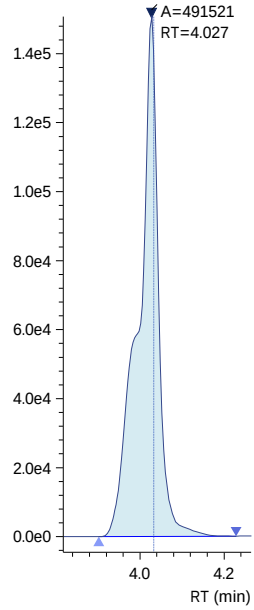
R1 298.80>99.00 (-) 8.00e1



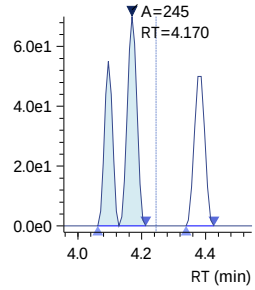
PFBS-13C
Conc 4.8713
Q 301.80>80.00 (-) 1.51e5



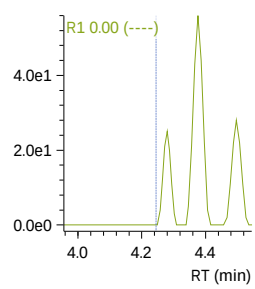
PFBS-13C_IS
Conc 5.0000
ISTD 301.80>80.00 (-) 1.51e5



PFPeS
Conc 0.0034
R#1 0.00 (154.38)
Q 349.00>99.00 (-) 7.00e1

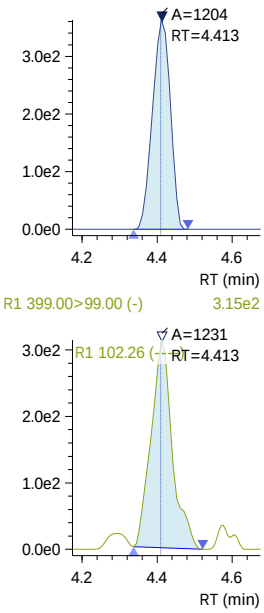


R1 349.00>79.95 (-) 5.60e1

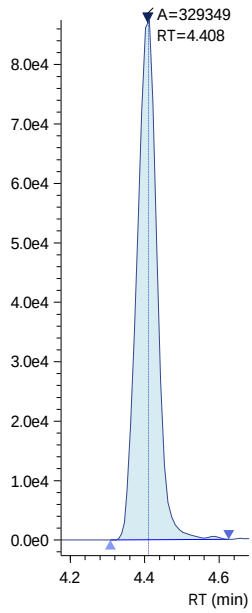


210909_007 (continued)

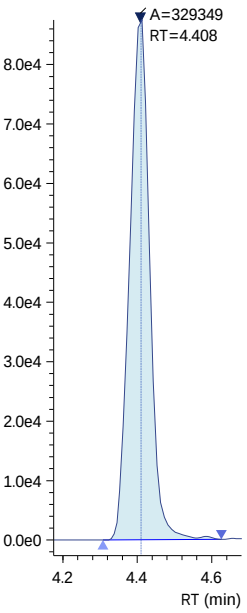
PFHxS_1
Conc 0.0103
R#1 102.26 (76.59)
Q 399.00>80.00 (-) 3.63e2
R1 399.00>99.00 (-) 3.15e2



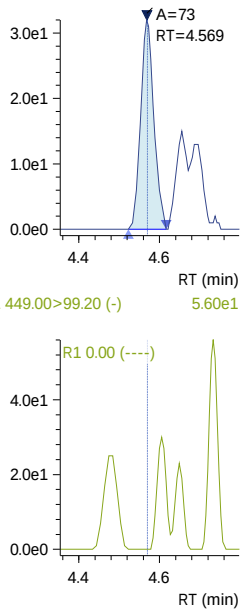
PFHxS-18O
Conc 4.5762
Q 402.70>84.05 (-) 8.75e4



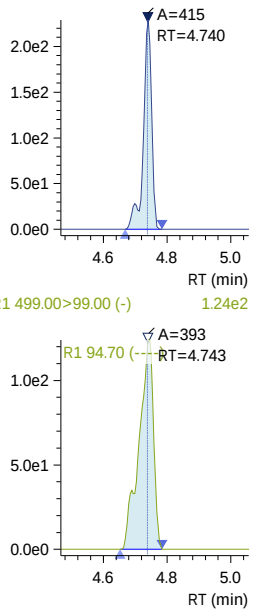
PFHxS-18O_IS
Conc 5.0000
ISTD 402.70>84.05 (-) 8.75e4



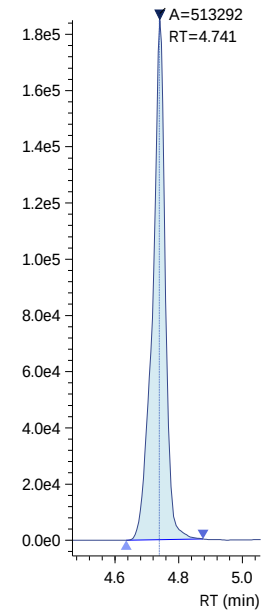
PFHpS_1
Conc 0.0006
R#1 0.00 (53.58)
Q 449.00>80.15 (-) 3.20e1
R1 449.00>99.20 (-) 5.60e1



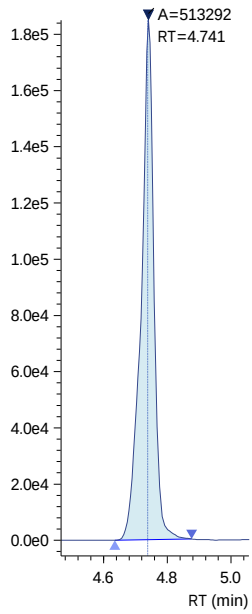
PFOS_1
Conc 0.0043
R#1 94.70 (84.68)
Q 499.00>80.00 (-) 2.29e2
R1 499.00>99.00 (-) 1.24e2



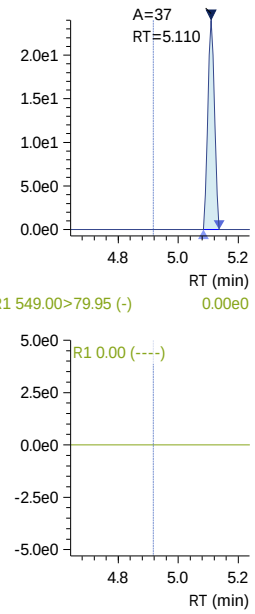
PFOS-13C
Conc 5.2191
Q 502.80>80.05 (-) 1.85e5



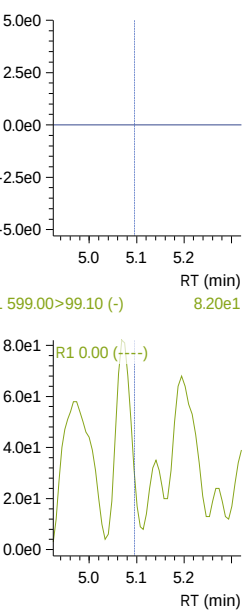
PFOS-13C_IS
Conc 5.0000
ISTD 502.80>80.05 (-) 1.85e5



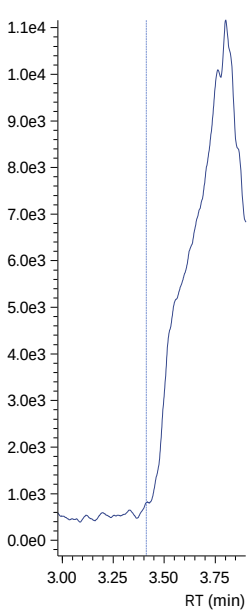
PFNS
Conc 0.0005
R#1 0.00 (133.04)
Q 549.00>99.00 (-) 2.40e1
R1 549.00>79.95 (-) 0.00e0



PFDS_1
Conc ----
R#1 0.00 (89.20)
Q 599.00>79.90 (-) 0.00e0
R1 599.00>99.10 (-) 8.20e1

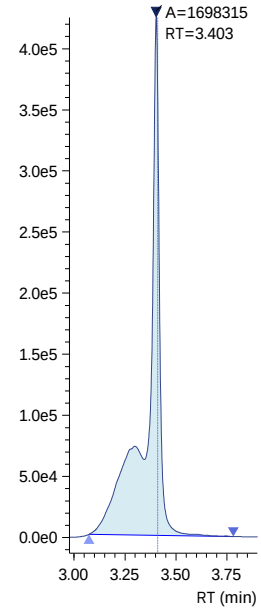


PFBA
Conc ----
Q 213.00>169.10 (-) 1.12e4

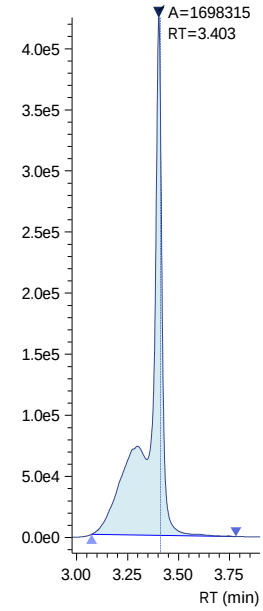


210909_007 (continued)

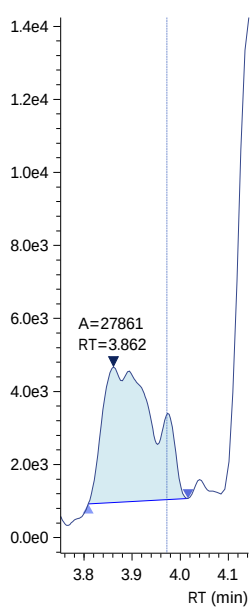
PFBA-13C
Conc 4.6916
Q 216.90>172.15 (-) 4.26e5



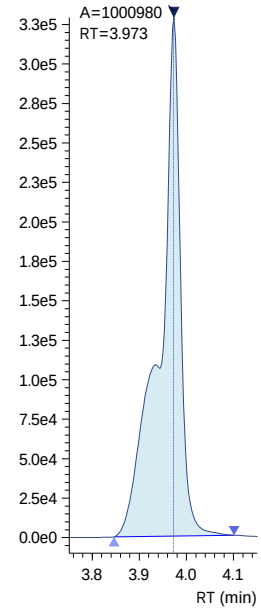
PFBA-13C_IS
Conc 5.0000
ISTD 216.90>172.15 (-) 4.26e5



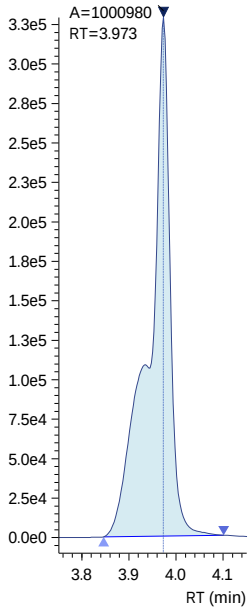
PFPeA
Conc 0.0111
Q 263.05>219.10 (-) 1.42e4



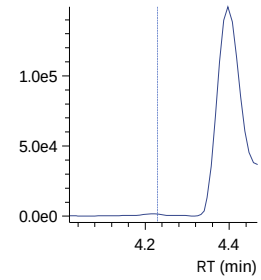
PFPeA-13C
Conc 4.8384
Q 267.90>223.00 (-) 3.29e5



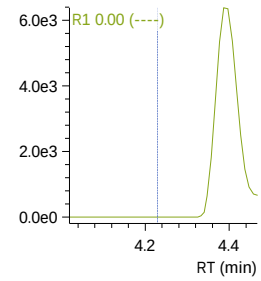
PFPeA-13C_IS
Conc 5.0000
ISTD 267.90>223.00 (-) 3.29e5



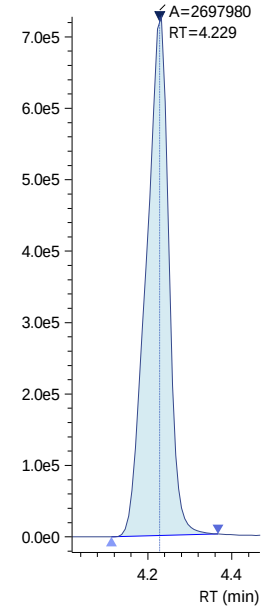
PFHxA
Conc ----
R#1 0.00 (4.71)
Q 313.00>269.00 (-) 1.49e5



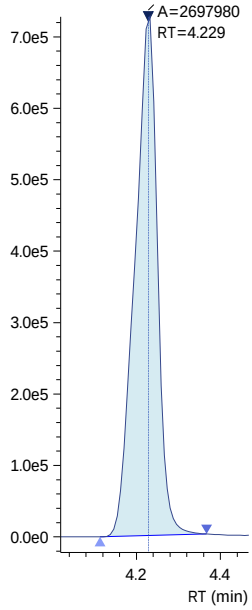
R1 313.00>119.10 (-) 6.39e3



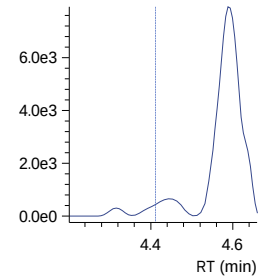
PFHxA-13C
Conc 4.5959
Q 314.90>270.10 (-) 7.28e5



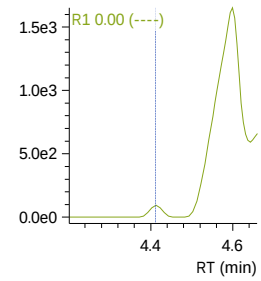
PFHxA-13C_IS
Conc 5.0000
ISTD 314.90>270.10 (-) 7.28e5



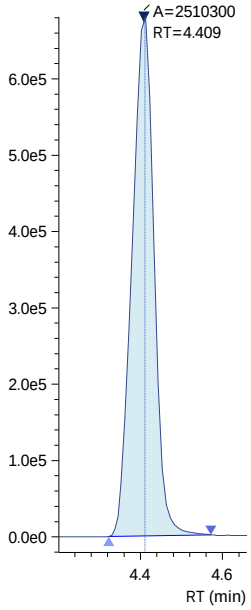
PFHpA
Conc ----
R#1 0.00 (24.79)
Q 362.90>319.00 (-) 7.93e3



R1 362.90>169.00 (-) 1.65e3



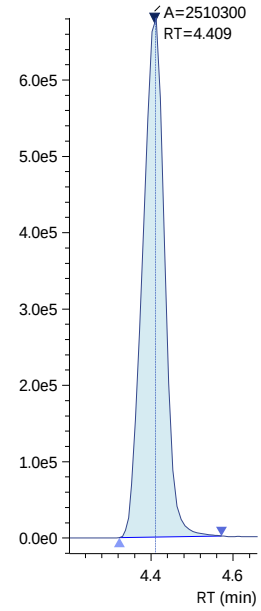
PFHpA-13C
Conc 4.7152
Q 366.90>322.10 (-) 6.81e5



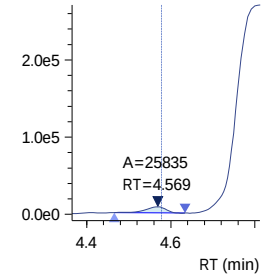
Insight Report
Before Manual Integration
Printed 9/9/2021 15:44:22

210909_007 (continued)

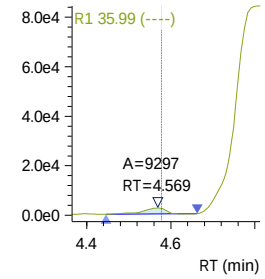
PFHpA-13C_IS
Conc 5.0000
ISTD 366.90>322.10 (-) 6.81e5



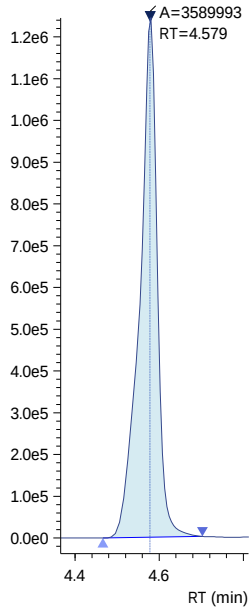
PFOA
Conc 0.0278
R#1 35.99 (30.61)
Q 413.00>369.00 (-) 2.71e5



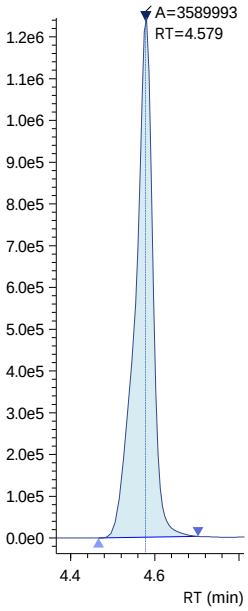
R1 413.00>169.10 (-) 8.45e4



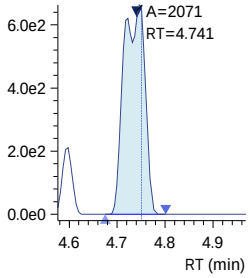
PFOA-13C
Conc 5.0440
Q 416.80>372.05 (-) 1.25e6



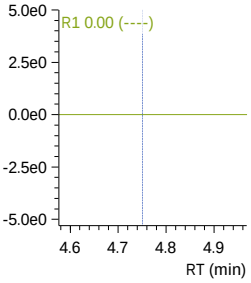
PFOA-13C_IS
Conc 5.0000
ISTD 416.80>372.05 (-) 1.25e6



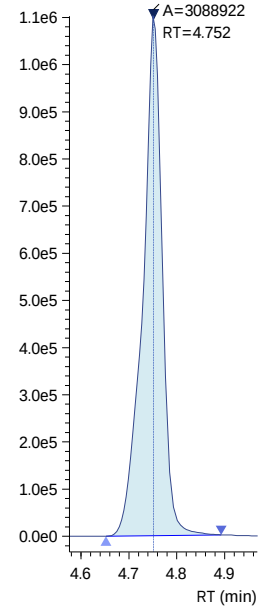
PFNA
Conc 0.0032
R#1 0.00 (23.82)
Q 463.00>418.90 (-) 6.63e2



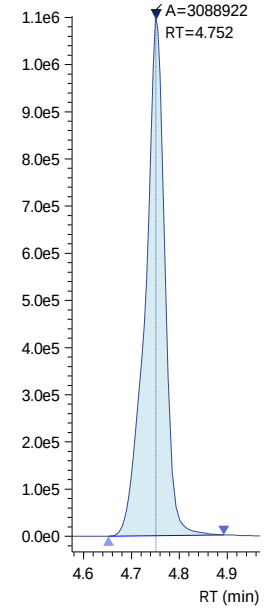
R1 463.00>219.00 (-) 0.00e0



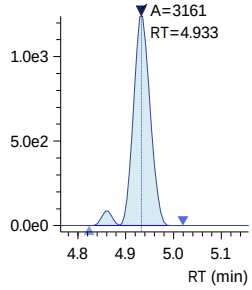
PFNA-13C
Conc 5.0374
Q 467.80>423.00 (-) 1.10e6



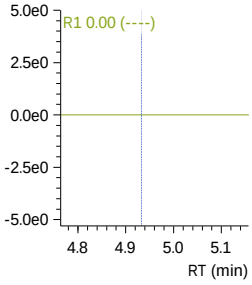
PFNA-13C_IS
Conc 5.0000
ISTD 467.80>423.00 (-) 1.10e6



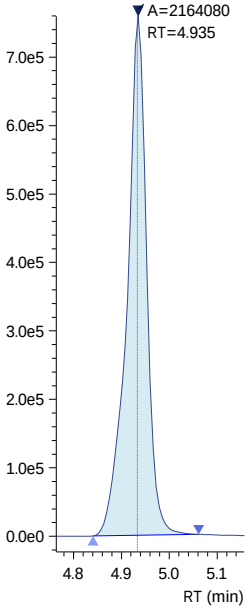
PFDA
Conc 0.0052
R#1 0.00 (20.11)
Q 513.00>468.80 (-) 1.24e3



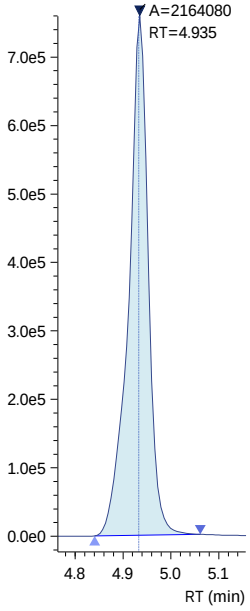
R1 513.00>219.10 (-) 0.00e0



PFDA-13C
Conc 5.0760
Q 514.80>469.95 (-) 7.60e5

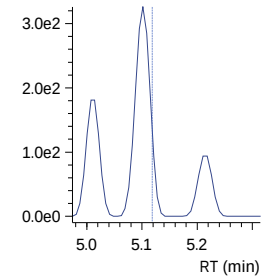


PFDA-13C_IS
Conc 5.0000
ISTD 514.80>469.95 (-) 7.60e5

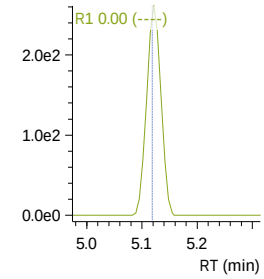


210909_007 (continued)

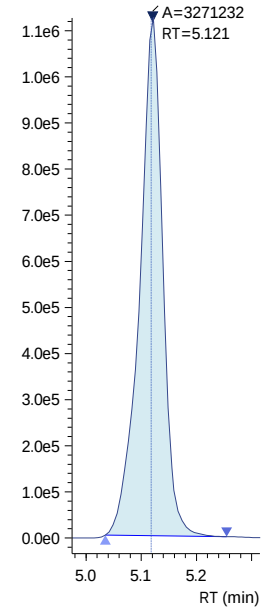
PFUnA
Conc ----
R#1 0.00 (13.40)
Q 563.00>518.90 (-) 3.26e2



R1 563.00>219.00 (-) 2.61e2



PFUnA-13C
Conc 5.0888
Q 564.80>519.95 (-) 1.13e6



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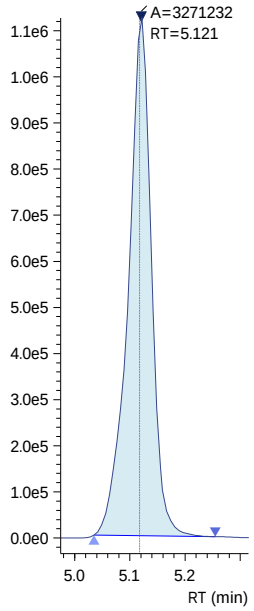
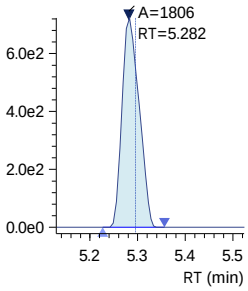
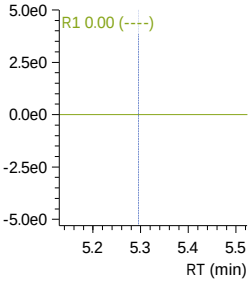
Conc 5.0000
ISTD 564.80>519.95 (-) 1.13e6



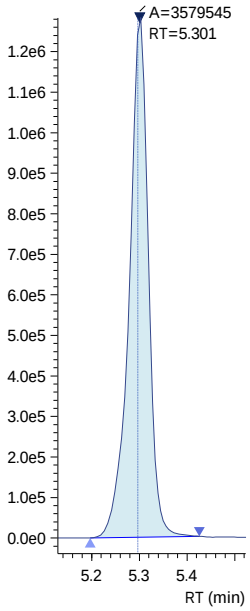
PFDoA
Conc 0.0028
R#1 0.00 (17.67)
Q 613.05>569.00 (-) 7.23e2



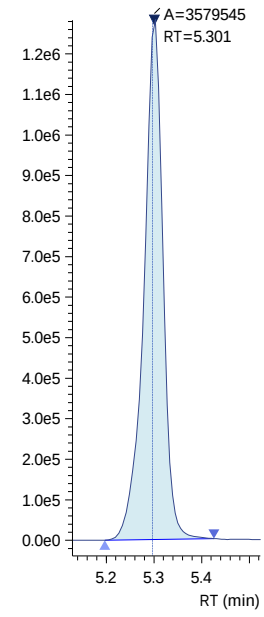
R1 613.05>169.00 (-) 0.00e0



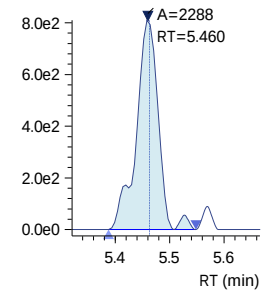
PFDoA-13C
Conc 5.0483
Q 614.80>569.95 (-) 1.28e6



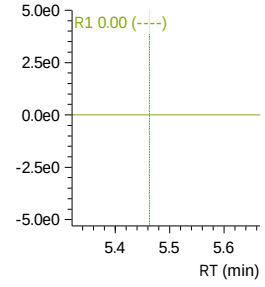
PFDoA-13C_IS
Conc 5.0000
ISTD 614.80>569.95 (-) 1.28e6



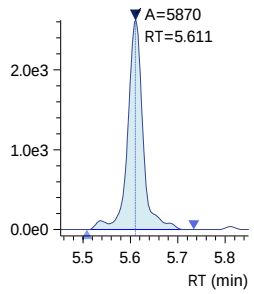
PFTrDA
Conc 0.0031
R#1 0.00 (14.03)
Q 663.00>618.90 (-) 8.10e2



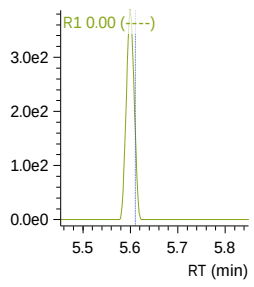
R1 662.90>169.00 (-) 0.00e0



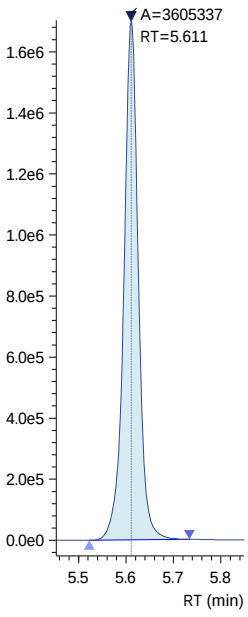
PFTeDA
Conc 0.0074
R#1 0.00 (16.71)
Q 713.00>669.00 (-) 2.62e3



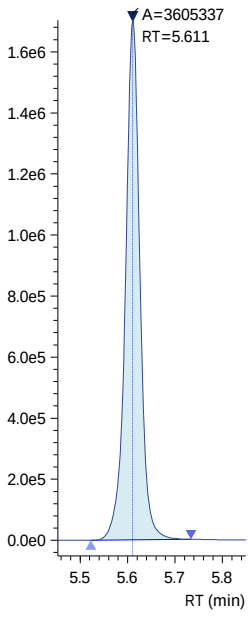
R1 713.00>169.10 (-) 3.87e2



PFTeDA-13C
Conc 5.0677
Q 714.70>669.90 (-) 1.70e6

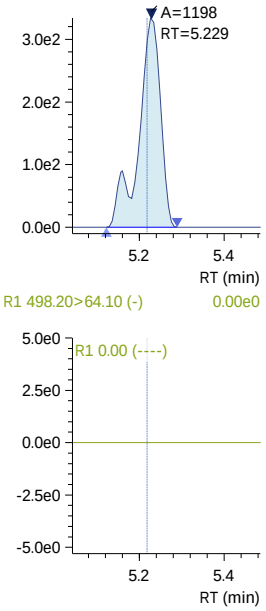


PFTeDA-13C_IS
Conc 5.0000
ISTD 714.70>669.90 (-) 1.70e6

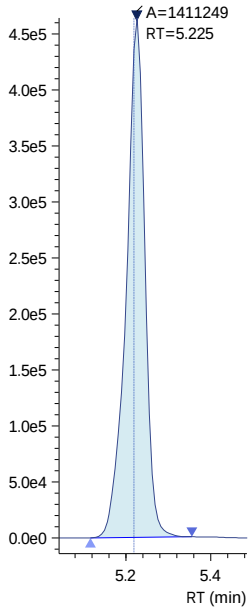


210909_007 (continued)

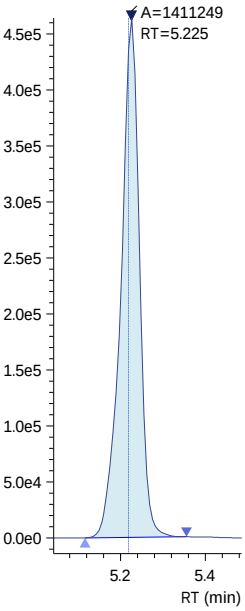
FOSA
Conc 0.0035
R#1 0.00 (4.71)
Q 498.20>78.00 (-) 3.34e2
R1 498.20>64.10 (-) 0.00e0



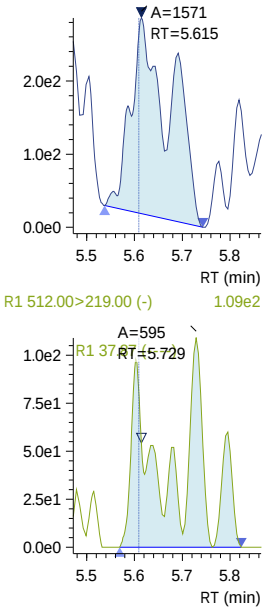
FOSA-13C
Conc 4.7809
Q 506.00>78.05 (-) 4.64e5



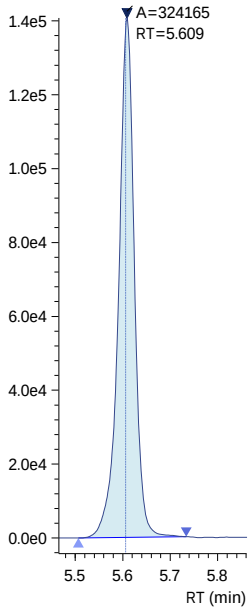
FOSA-13C_IS
Conc 5.0000
ISTD 506.00>78.05 (-) 4.64e5



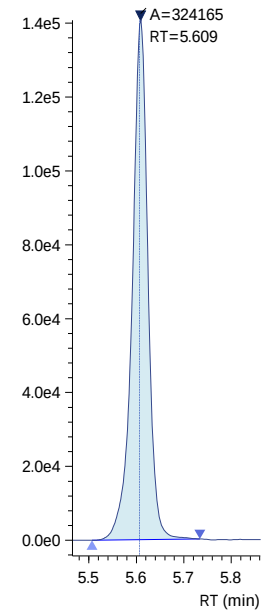
N-MeFOSA
Conc 0.0127
R#1 37.87 (66.26)
Q 512.00>169.10 (-) 2.86e2
R1 512.00>219.00 (-) 1.09e2



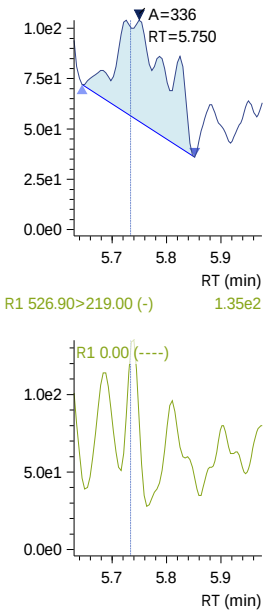
N-MeFOSA-d3
Conc 4.8944
Q 514.90>168.90 (-) 1.41e5



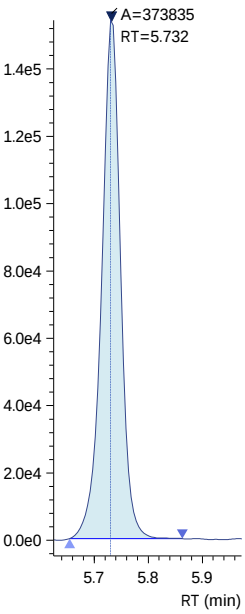
N-MeFOSA-d3_IS
Conc 5.0000
ISTD 514.90>168.90 (-) 1.41e5



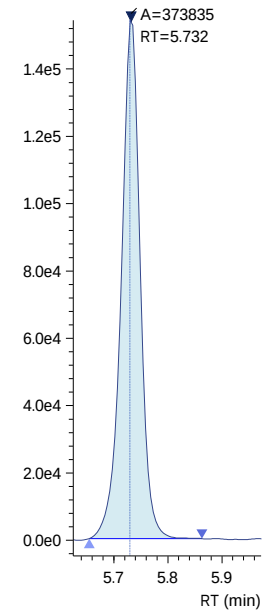
N-EtFOSA
Conc 0.0144
R#1 0.00 (64.28)
Q 526.90>169.10 (-) 1.04e2
R1 526.90>219.00 (-) 1.35e2



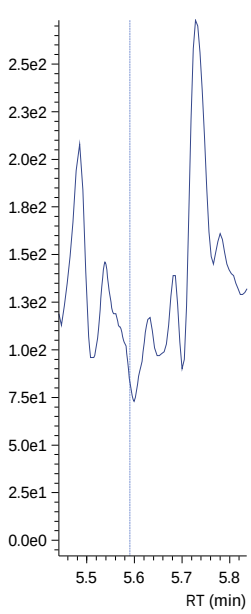
N-EtFOSA-d9
Conc 4.8450
Q 530.90>169.15 (-) 1.54e5



N-EtFOSA-d9_IS
Conc 5.0000
ISTD 530.90>169.15 (-) 1.54e5

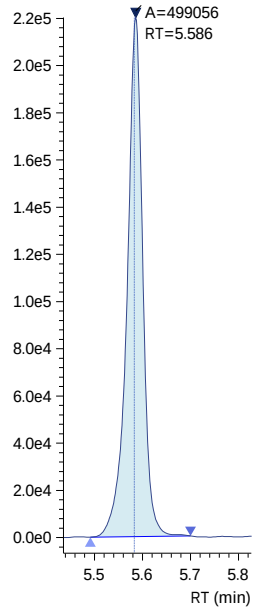


N-MeFOSE
Conc ----
Q 616.00>59.00 (-) 2.73e2

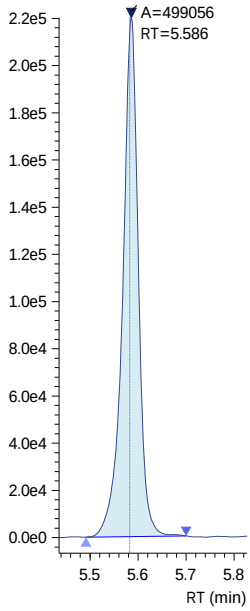


210909_007 (continued)

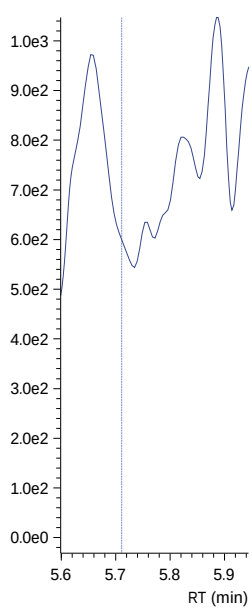
N-MeFOSE-d7
Conc 4.8934
Q 622.70>59.10 (-) 2.20e5



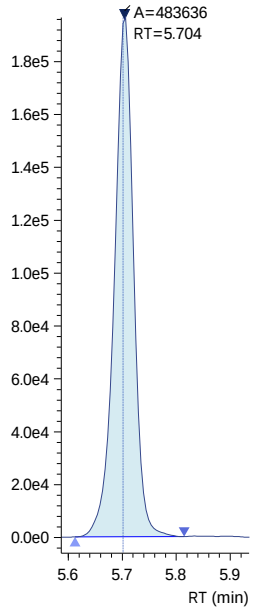
N-MeFOSE-d7_IS
Conc 5.0000
ISTD 622.70>59.10 (-) 2.20e5



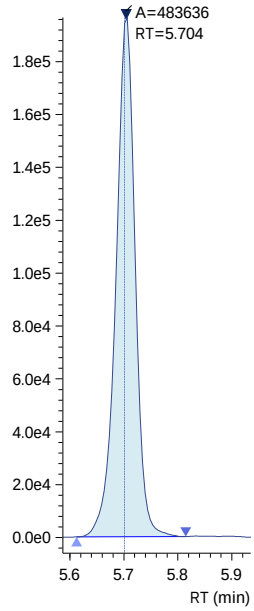
N-EtFOSE
Conc ----
Q 630.00>58.90 (-) 1.05e3



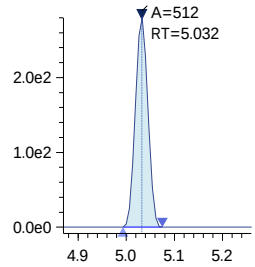
N-EtFOSE-d9
Conc 5.0076
Q 638.70>59.10 (-) 1.97e5



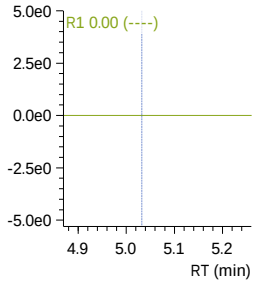
N-EtFOSE-d9_IS
Conc 5.0000
ISTD 638.70>59.10 (-) 1.97e5



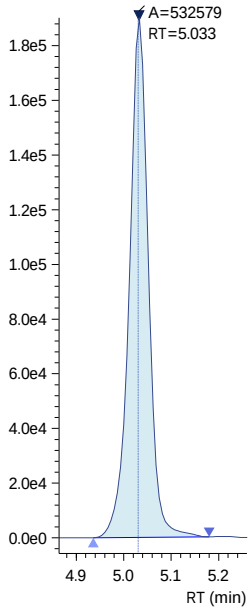
N-MeFOSAA
Conc 0.0154
R#1 0.00 (39.15)
Q 570.20>419.00 (-) 2.80e2



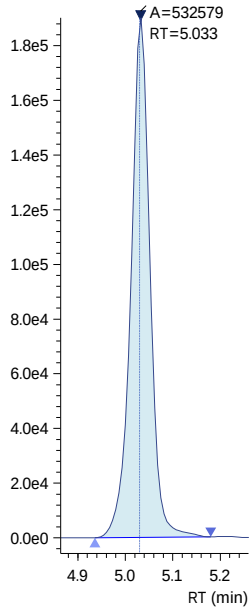
R1 570.20>512.00 (-) 0.00e0



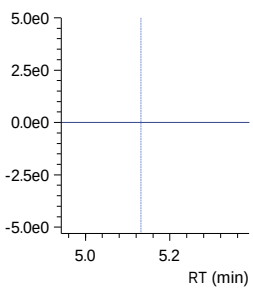
N-MeFOSAA-d3
Conc 4.5455
Q 572.80>419.05 (-) 1.90e5



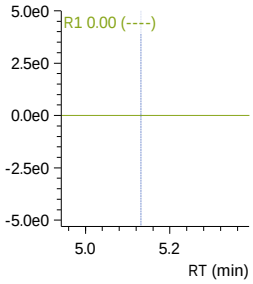
N-MeFOSAA-d3_IS
Conc 5.0000
ISTD 572.80>419.05 (-) 1.90e5



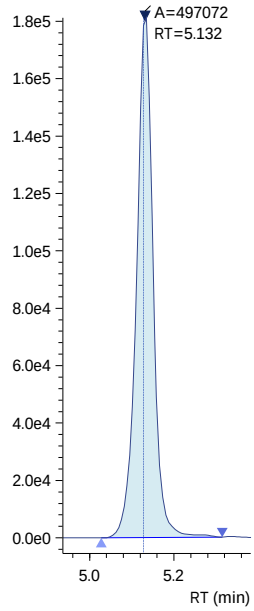
N-EtFOSAA
Conc ----
R#1 0.00 (76.53)
Q 584.20>418.95 (-) 0.00e0



R1 584.20>526.10 (-) 0.00e0

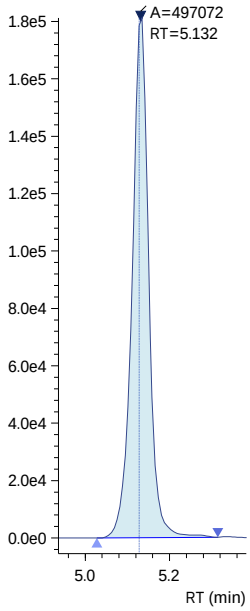


N-EtFOSAA-d5
Conc 5.0171
Q 588.80>419.00 (-) 1.81e5

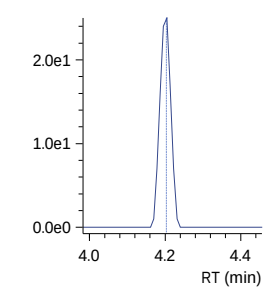


210909_007 (continued)

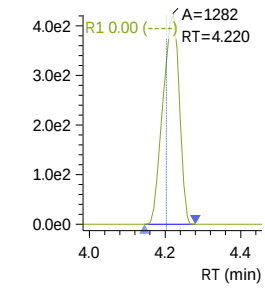
N-EtFOSAA-d5_IS
Conc 5.0000
ISTD 588.80>419.00 (-) 1.81e5



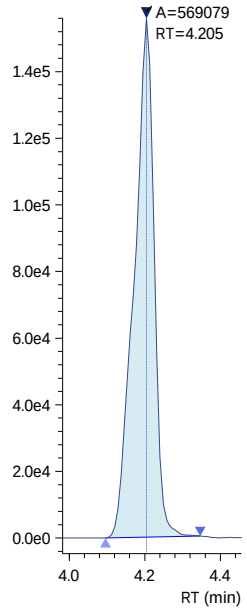
4_2-FTS_1
Conc ----
R#1 0.00 (26.47)
Q 327.00>307.05 (-) 2.50e1



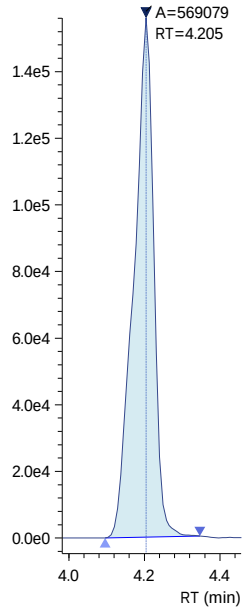
R1 327.00>81.10 (-) 4.22e2



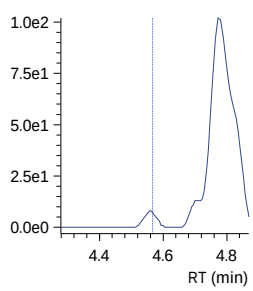
4_2-FTS-13C
Conc 5.1823
Q 328.80>309.05 (-) 1.56e5



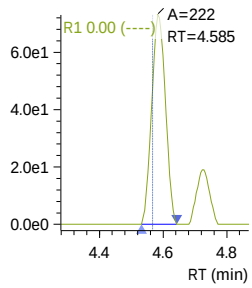
4_2-FTS-13C_IS
Conc 5.0000
ISTD 328.80>309.05 (-) 1.56e5



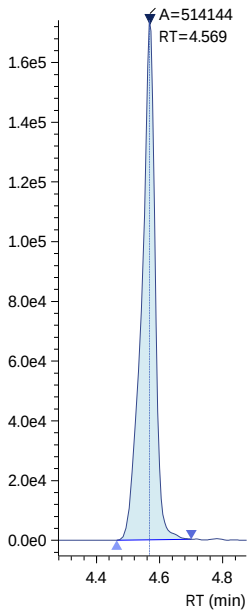
6_2-FTS_1
Conc ----
R#1 0.00 (30.68)
Q 427.00>407.00 (-) 1.02e2



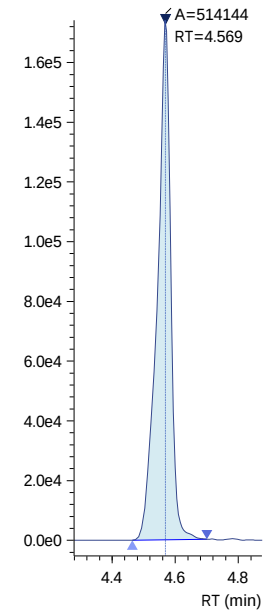
R1 427.00>80.90 (-) 7.30e1



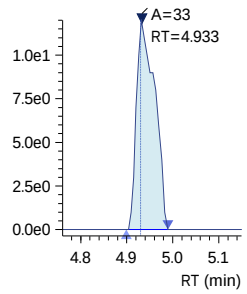
6_2-FTS-13C
Conc 5.5416
Q 428.90>409.00 (-) 1.74e5



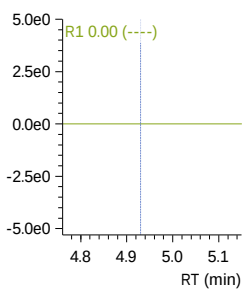
6_2-FTS-13C_IS
Conc 5.0000
ISTD 428.90>409.00 (-) 1.74e5



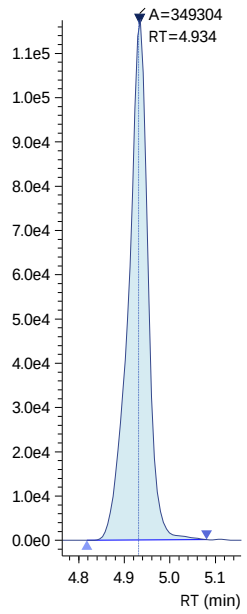
8_2-FTS_1
Conc 0.0005
R#1 0.00 (8.90)
Q 527.10>506.90 (-) 1.20e1



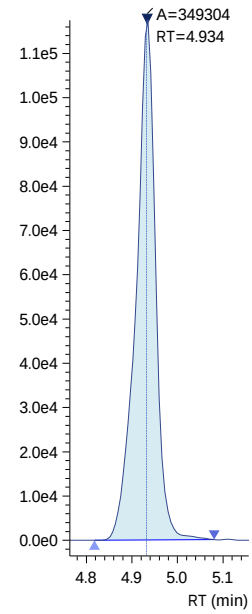
R1 527.20>487.00 (-) 0.00e0



8_2-FTS-13C
Conc 5.1790
Q 528.80>509.00 (-) 1.17e5

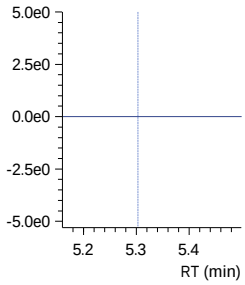


8_2-FTS-13C_IS
Conc 5.0000
ISTD 528.80>509.00 (-) 1.17e5

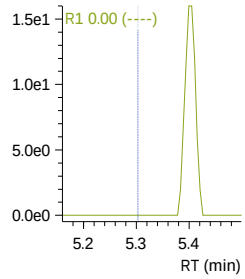


210909_007 (continued)

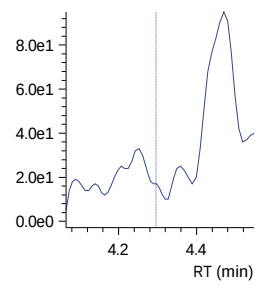
10_2-FtS_1
Conc ----
R#1 0.00 (26.33)
Q 627.00>606.95 (-) 0.00e0



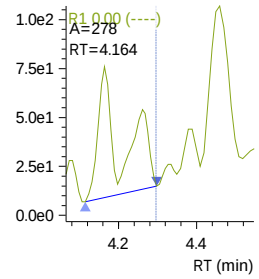
R1 627.00>81.25 (-) 1.60e1



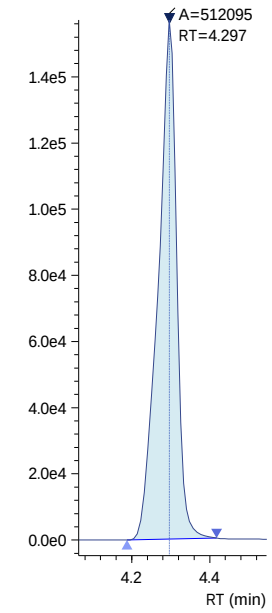
HPFO_DA
Conc ----
R#1 0.00 (103.01)
Q 329.00>169.00 (-) 9.50e1



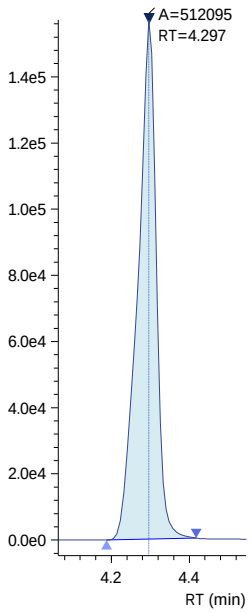
R1 329.00>285.10 (-) 1.07e2



HFPO_DA-13C
Conc 5.1495
Q 332.00>286.80 (-) 1.57e5



HFPO_DA-13C_IS
Conc 5.0000
ISTD 332.00>286.80 (-) 1.57e5



Insight Report
Retention Time/Signal:Noise Ratio Confirmation
Printed 9/9/2021 16:28:51

210909_008

Sample ID: PFC ICAL @ 0.05ppb
Date Acquired: 9/9/2021 1:55:03 PM
Acquired by: System Administrator
Data File: 210909_008
Vial: 1 | Inj. Volume: 15.0000uL | Tray: 0

Name	m/z	Ref 1 m/z	Found RT	RT Diff	ISTD RT Diff	S/N	Ref 1 S/N	Flag ID
13C7-PFUnDA_IS	570.00>525.00	----	5.119	0.002	----	4199	----	
PFBS_1	299.00>80.00	298.80>99.00	4.025	-0.002	-0.001	318	112	
PFBS-13C	301.80>80.00	----	4.026	-0.007	-1.093	24460	----	
PFBS-13C_IS	301.80>80.00	----	4.026	-0.007	----	24460	----	
PFPeS	349.00>99.00	349.00>79.95	4.243	-0.002	0.217	35	(INF)	
PFHxS_1	399.00>80.00	399.00>99.00	4.411	0.001	0.003	(INF)	144	
PFHxS-18O	402.70>84.05	----	4.408	-0.002	-0.711	(INF)	----	
PFHxS-18O_IS	402.70>84.05	----	4.408	-0.002	----	(INF)	----	
PFHpS_1	449.00>80.15	449.00>99.20	4.569	-0.001	0.161	738	(INF)	
PFOS_1	499.00>80.00	499.00>99.00	4.741	0.003	0.002	(INF)	(INF)	
PFOS-13C	502.80>80.05	----	4.739	0.000	-0.380	(INF)	----	
PFOS-13C_IS	502.80>80.05	----	4.739	0.000	----	(INF)	----	
PFNS	549.00>99.00	549.00>79.95	4.918	0.002	0.179	709	(INF)	
PFDS_1	599.00>79.90	599.00>99.10	5.097	0.002	0.358	(INF)	(INF)	
PFBA	213.00>169.10	----	3.409	-0.002	0.000	5	----	SN calc error
PFBA-13C	216.90>172.15	----	3.409	-0.001	-1.710	7716	----	
PFBA-13C_IS	216.90>172.15	----	3.409	-0.001	----	7716	----	
PFPeA	263.05>219.10	----	3.971	-0.002	-0.001	83	----	
PFPeA-13C	267.90>223.00	----	3.972	-0.001	-1.147	11280	----	
PFPeA-13C_IS	267.90>223.00	----	3.972	-0.001	----	11280	----	
PFHxA	313.00>269.00	313.00>119.10	4.228	-0.001	0.000	139	(INF)	
PFHxA-13C	314.90>270.10	----	4.228	-0.001	-0.891	8141	----	
PFHxA-13C_IS	314.90>270.10	----	4.228	-0.001	----	8141	----	
PFHpA	362.90>319.00	362.90>169.00	4.409	-0.003	0.001	(INF)	(INF)	
PFHpA-13C	366.90>322.10	----	4.408	-0.003	-0.711	20810	----	
PFHpA-13C_IS	366.90>322.10	----	4.408	-0.003	----	20810	----	
PFOA	413.00>369.00	413.00>169.10	4.578	0.000	0.000	40	40	
PFOA-13C	416.80>372.05	----	4.578	0.000	-0.541	567848	----	
PFOA-13C_IS	416.80>372.05	----	4.578	0.000	----	567848	----	
PFNA	463.00>418.90	463.00>219.00	4.751	0.000	0.000	859	(INF)	
PFNA-13C	467.80>423.00	----	4.751	0.000	-0.368	356114	----	
PFNA-13C_IS	467.80>423.00	----	4.751	0.000	----	356114	----	
PFDA	513.00>468.80	513.00>219.10	4.935	0.002	0.001	7855	67	
PFDA-13C	514.80>469.95	----	4.934	0.001	-0.185	34720	----	
PFDA-13C_IS	514.80>469.95	----	4.934	0.001	----	34720	----	
PFUnA	563.00>518.90	563.00>219.00	5.120	0.002	0.001	(INF)	(INF)	
PFUnA-13C	564.80>519.95	----	5.119	0.001	0.000	3986	----	
PFUnA-13C_IS	564.80>519.95	----	5.119	0.001	----	3986	----	
PFDoA	613.05>569.00	613.05>169.00	5.295	-0.001	-0.004	(INF)	(INF)	
PFDoA-13C	614.80>569.95	----	5.299	0.002	0.180	(INF)	----	
PFDoA-13C_IS	614.80>569.95	----	5.299	0.002	----	(INF)	----	
PFTrDA	663.00>618.90	662.90>169.00	5.463	0.000	-0.146	(INF)	(INF)	
PFTeDA	713.00>669.00	713.00>169.10	5.609	-0.002	0.000	625	(INF)	
PFTeDA-13C	714.70>669.90	----	5.609	-0.002	0.490	102178	----	
PFTeDA-13C_IS	714.70>669.90	----	5.609	-0.002	----	94068	----	
FOSA	498.20>78.00	498.20>64.10	5.222	0.004	-0.001	787	(INF)	
FOSA-13C	506.00>78.05	----	5.223	0.004	0.104	3873	----	
FOSA-13C_IS	506.00>78.05	----	5.223	0.004	----	3873	----	
N-MeFOSA	512.00>169.10	512.00>219.00	5.609	0.000	0.002	60	(INF)	
N-MeFOSA-d3	514.90>168.90	----	5.607	0.001	0.488	2169	----	
N-MeFOSA-d3_IS	514.90>168.90	----	5.607	0.001	----	2169	----	

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SN - Software-calculated S/N ratio outside criteria due to non-target peaks or drift in noise calculation window. Analyst review of noise levels (excluding non-target peaks) in chromatogram indicates S/N ratio meets criteria.

210909_008 (continued)

(Table continued from previous page)

Name	m/z	Ref 1 m/z	Found RT	RT Diff	ISTD RT Diff	S/N	Ref 1 S/N	Flag ID
N-EtFOSA	526.90>169.10	526.90>219.00	5.733	-0.001	0.004	39	24	
N-EtFOSA-d9	530.90>169.15	----	5.729	-0.001	0.610	1076	----	
N-EtFOSA-d9_IS	530.90>169.15	----	5.729	-0.001	----	1076	----	
N-MeFOSE	616.00>59.00	----	5.591	0.001	0.007	132	----	
N-MeFOSE-d7	622.70>59.10	----	5.584	0.001	0.465	2137	----	
N-MeFOSE-d7_IS	622.70>59.10	----	5.584	0.001	----	2137	----	
N-EtFOSE	630.00>58.90	----	5.712	0.001	0.011	55	----	
N-EtFOSE-d9	638.70>59.10	----	5.701	0.000	0.582	1256	----	
N-EtFOSE-d9_IS	638.70>59.10	----	5.701	0.000	----	1256	----	
N-MeFOSAA	570.20>419.00	570.20>512.00	5.036	0.003	0.004	(INF)	(INF)	
N-MeFOSAA-d3	572.80>419.05	----	5.032	0.002	-0.087	(INF)	----	
N-MeFOSAA-d3_IS	572.80>419.05	----	5.032	0.002	----	(INF)	----	
N-EtFOSAA	584.20>418.95	584.20>526.10	5.133	0.001	0.002	(INF)	(INF)	
N-EtFOSAA-d5	588.80>419.00	----	5.131	0.003	0.012	51544	----	
N-EtFOSAA-d5_IS	588.80>419.00	----	5.131	0.003	----	51544	----	
4_2-FTS_1	327.00>307.05	327.00>81.10	4.202	-0.001	-0.001	180	(INF)	
4_2-FTS-13C	328.80>309.05	----	4.203	-0.001	-0.916	(INF)	----	
4_2-FTS-13C_IS	328.80>309.05	----	4.203	-0.001	----	(INF)	----	
6_2-FTS_1	427.00>407.00	427.00>80.90	4.565	-0.002	-0.003	(INF)	(INF)	
6_2-FTS-13C	428.90>409.00	----	4.568	0.000	-0.551	157452	----	
6_2-FTS-13C_IS	428.90>409.00	----	4.568	0.000	----	294565	----	
8_2-FTS_1	527.10>506.90	527.20>487.00	4.932	0.002	0.000	(INF)	12	
8_2-FTS-13C	528.80>509.00	----	4.932	0.000	-0.187	26066	----	
8_2-FTS-13C_IS	528.80>509.00	----	4.932	0.000	----	26066	----	
10_2-FtS_1	627.00>606.95	627.00>81.25	5.306	0.003	0.374	(INF)	(INF)	
HPFO_DA	329.00>169.00	329.00>285.10	4.294	-0.002	-0.001	142	104	
HFPO_DA-13C	332.00>286.80	----	4.295	-0.001	-0.824	13497	----	
HFPO_DA-13C_IS	332.00>286.80	----	4.295	-0.001	----	13497	----	

Flag ID key: SN: S/N

Insight Report
Ion Ratio Confirmation
Printed 9/9/2021 16:29:39

210909_008

Sample ID: PFC ICAL @ 0.05ppb
Date Acquired: 9/9/2021 1:55:03 PM
Acquired by: System Administrator
Data File: 210909_008
Vial: 1 | Inj. Volume: 15.0000uL | Tray: 0

Name	m/z	Ref 1 m/z	Area	Ref 1 Measured	Ref 1 Actual Ratio	Ref 1 Set Ratio	Comment 1	Flag ID
13C7-PFUnDA_IS	570.00>525.00	----	5123445	----	----	----		
PFBS_1	299.00>80.00	298.80>99.00	8169	4078	49.92	49.34	24.67-74.01	
PFBS-13C	301.80>80.00	----	547449	----	----	----	0-0	
PFBS-13C_IS	301.80>80.00	----	547449	----	----	----	0-0	
PFPeS	349.00>99.00	349.00>79.95	4401	5725	130.08	151.30	75.65 -226.95	
PFHxS_1	399.00>80.00	399.00>99.00	8972	4163	46.40	62.92	31.46-94.38	
PFHxS-18O	402.70>84.05	----	362263	----	----	----	0-0	
PFHxS-18O_IS	402.70>84.05	----	362263	----	----	----	0-0	
PFHpS_1	449.00>80.15	449.00>99.20	6186	2416	39.06	40.53	20.26-60.79	
PFOS_1	499.00>80.00	499.00>99.00	4265	3147	73.79	73.81	36.91 -110.72	
PFOS-13C	502.80>80.05	----	517709	----	----	----	0-0	
PFOS-13C_IS	502.80>80.05	----	517709	----	----	----	0-0	
PFNS	549.00>99.00	549.00>79.95	3528	5649	160.12	160.25	80.13 -240.38	
PFDS_1	599.00>79.90	599.00>99.10	5959	4489	75.33	72.12	36.06 -108.19	
PFBA	213.00>169.10	----	10768	----	----	----		SN calc error
PFBA-13C	216.90>172.15	----	1909335	----	----	----		
PFBA-13C_IS	216.90>172.15	----	1909335	----	----	----		
PFPeA	263.05>219.10	----	57735	----	----	----		
PFPeA-13C	267.90>223.00	----	1110014	----	----	----	0-0	
PFPeA-13C_IS	267.90>223.00	----	1110014	----	----	----	0-0	
PFHxA	313.00>269.00	313.00>119.10	43964	2263	5.15	4.40	2.2-6.61	
PFHxA-13C	314.90>270.10	----	2982167	----	----	----	0-0	
PFHxA-13C_IS	314.90>270.10	----	2982167	----	----	----	0-0	
PFHpA	362.90>319.00	362.90>169.00	41296	8609	20.85	24.40	12.2-36.6	
PFHpA-13C	366.90>322.10	----	2641980	----	----	----	0-0	
PFHpA-13C_IS	366.90>322.10	----	2641980	----	----	----	0-0	
PFOA	413.00>369.00	413.00>169.10	63552	23447	36.89	31.89	15.94-47.83	
PFOA-13C	416.80>372.05	----	3786363	----	----	----	0-0	
PFOA-13C_IS	416.80>372.05	----	3786363	----	----	----	0-0	
PFNA	463.00>418.90	463.00>219.00	33382	5700	17.08	23.25	11.63-34.88	
PFNA-13C	467.80>423.00	----	3357887	----	----	----	0-0	
PFNA-13C_IS	467.80>423.00	----	3357887	----	----	----	0-0	
PFDA	513.00>468.80	513.00>219.10	37584	7675	20.42	20.24	10.12-30.36	
PFDA-13C	514.80>469.95	----	2290897	----	----	----	0-0	
PFDA-13C_IS	514.80>469.95	----	2290897	----	----	----	0-0	
PFUnA	563.00>518.90	563.00>219.00	39433	4332	10.99	12.46	6.23-18.69	
PFUnA-13C	564.80>519.95	----	3530866	----	----	----	0-0	
PFUnA-13C_IS	564.80>519.95	----	3530866	----	----	----	0-0	
PFDoA	613.05>569.00	613.05>169.00	33119	5336	16.11	16.50	8.25-24.76	
PFDoA-13C	614.80>569.95	----	3836433	----	----	----	0-0	
PFDoA-13C_IS	614.80>569.95	----	3836433	----	----	----	0-0	
PFTrDA	663.00>618.90	662.90>169.00	35922	6232	17.35	15.29	7.65-22.94	
PFTeDA	713.00>669.00	713.00>169.10	48367	9931	20.53	17.47	8.73-26.2	
PFTeDA-13C	714.70>669.90	----	3821361	----	----	----	0-0	
PFTeDA-13C_IS	714.70>669.90	----	3821361	----	----	----	0-0	
FOSA	498.20>78.00	498.20>64.10	17974	1186	6.60	5.19	2.6-7.79	
FOSA-13C	506.00>78.05	----	1574332	----	----	----	0-0	

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Comment 1 field specifies acceptance range for Ref 1 ratio.
IRr - Ion ratio outside criteria. Exceedances for results above the MDL to be "K" flagged in the analytical report.

Insight Report
Ion Ratio Confirmation
Printed 9/9/2021 16:29:39

210909_008 (continued)

(Table continued from previous page)

Name	m/z	Ref 1 m/z	Area	Ref 1 Measured	Ref 1 Actual Ratio	Ref 1 Set Ratio	Comment 1	Flag ID
FOSA-13C_IS	506.00>78.05	----	1574332	----	----	----	0-0	
N-MeFOSA	512.00>169.10	512.00>219.00	6908	4797	69.44	69.94	34.97 -104.91	
N-MeFOSA-d3	514.90>168.90	----	358186	----	----	----	0-0	
N-MeFOSA-d3_IS	514.90>168.90	----	358186	----	----	----	0-0	
N-EtFOSA	526.90>169.10	526.90>219.00	1408	748	53.13	66.52	33.26-99.77	
N-EtFOSA-d9	530.90>169.15	----	408810	----	----	----	0-0	
N-EtFOSA-d9_IS	530.90>169.15	----	408810	----	----	----	0-0	
N-MeFOSE	616.00>59.00	----	10319	----	----	----		
N-MeFOSE-d7	622.70>59.10	----	546757	----	----	----		
N-MeFOSE-d7_IS	622.70>59.10	----	546757	----	----	----		
N-EtFOSE	630.00>58.90	----	9269	----	----	----		
N-EtFOSE-d9	638.70>59.10	----	500666	----	----	----	0-0	
N-EtFOSE-d9_IS	638.70>59.10	----	500666	----	----	----	0-0	
N-MeFOSAA	570.20>419.00	570.20>512.00	3383	1008	29.80	39.56	19.78-59.34	
N-MeFOSAA-d3	572.80>419.05	----	589586	----	----	----	0-0	
N-MeFOSAA-d3_IS	572.80>419.05	----	589586	----	----	----	0-0	
N-EtFOSAA	584.20>418.95	584.20>526.10	2447	1338	54.68	84.54	42.27 -126.81	
N-EtFOSAA-d5	588.80>419.00	----	537572	----	----	----	0-0	
N-EtFOSAA-d5_IS	588.80>419.00	----	537572	----	----	----	0-0	
4_2-FTS_1	327.00>307.05	327.00>81.10	4876	1576	32.31	34.12	17.06-51.19	
4_2-FTS-13C	328.80>309.05	----	579764	----	----	----	0-0	
4_2-FTS-13C_IS	328.80>309.05	----	579764	----	----	----	0-0	
6_2-FTS_1	427.00>407.00	427.00>80.90	7156	2083	29.11	37.36	18.68-56.04	
6_2-FTS-13C	428.90>409.00	----	527146	----	----	----	0-0	
6_2-FTS-13C_IS	428.90>409.00	----	527146	----	----	----	0-0	
8_2-FTS_1	527.10>506.90	527.20>487.00	3437	264	7.68	10.63	5.32-15.95	
8_2-FTS-13C	528.80>509.00	----	375592	----	----	----	0-0	
8_2-FTS-13C_IS	528.80>509.00	----	375592	----	----	----	0-0	
10_2-FtS_1	627.00>606.95	627.00>81.25	3064	570	18.60	21.61	10.8-32.41	
HPFO_DA	329.00>169.00	329.00>285.10	5024	5685	113.16	106.46	53.23 -159.68	
HFPO_DA-13C	332.00>286.80	----	524538	----	----	----		
HFPO_DA-13C_IS	332.00>286.80	----	524538	----	----	----		

Flag ID key: SN: S/N

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Comment 1 field specifies acceptance range for Ref 1 ratio.
IRr - Ion ratio outside criteria. Exceedances for results above the MDL to be "K" flagged in the analytical report.

Insight Report
Quantitation/Integration
Printed 9/9/2021 16:33:46

210909_008

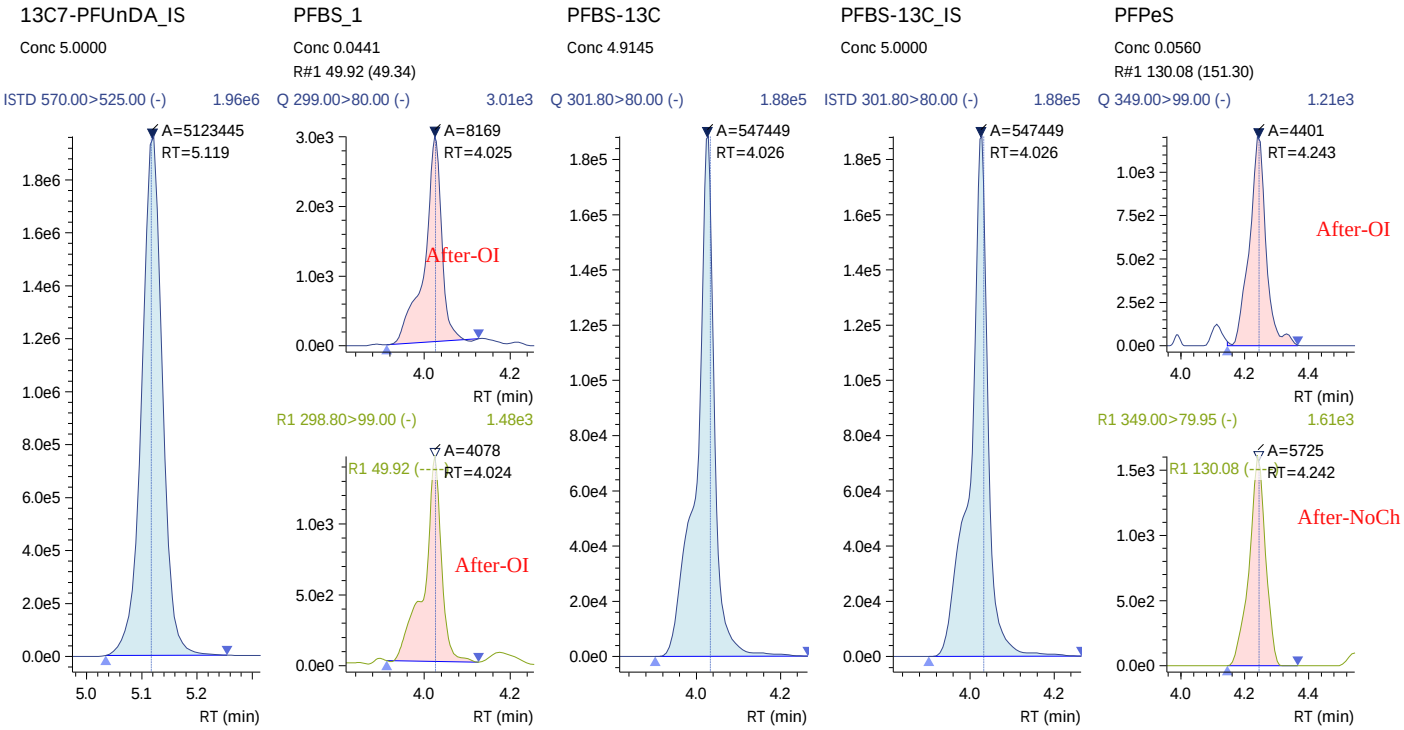
Sample ID: PFC ICAL @ 0.05ppb
Date Acquired: 9/9/2021 1:55:03 PM
Acquired by: System Administrator
Data File: 210909_008
Vial: 1 | Inj. Volume: 15.0000uL | Tray: 0

Name	Mode ID	Found RT	Area	ISTD Area	ISTD Name	Std. Conc.	Conc.	Unit
13C7-PFUnDA_IS	Auto	5.119	5123445	5123445	----	5.0000	5.0000	ng/mL
PFBS_1	M	4.025	8169	547449	PFBS-13C_IS	0.0444	0.0441	ng/mL
PFBS-13C	Auto	4.026	547449	5123445	13C7-PFUnDA_IS	5.0000	4.9145	ng/mL
PFBS-13C_IS	Auto	4.026	547449	547449	----	5.0000	5.0000	ng/mL
PFPeS	M	4.243	4401	547449	PFBS-13C_IS	0.0470	0.0560	ng/mL
PFHxS_1	MI R1	4.411	8972	362263	PFHxS-18O_IS	0.0457	0.0558	ng/mL
PFHxS-18O	Auto	4.408	362263	5123445	13C7-PFUnDA_IS	5.0000	4.5594	ng/mL
PFHxS-18O_IS	Auto	4.408	362263	362263	----	5.0000	5.0000	ng/mL
PFHpS_1	M	4.569	6186	362263	PFHxS-18O_IS	0.0477	0.0497	ng/mL
PFOS_1	M	4.741	4265	517709	PFOS-13C_IS	0.0465	0.0440	ng/mL
PFOS-13C	Auto	4.739	517709	5123445	13C7-PFUnDA_IS	5.0000	4.7682	ng/mL
PFOS-13C_IS	Auto	4.739	517709	517709	----	5.0000	5.0000	ng/mL
PFNS	M	4.918	3528	517709	PFOS-13C_IS	0.0481	0.0501	ng/mL
PFDS_1	MI R1	5.097	5959	517709	PFOS-13C_IS	0.0482	0.0489	ng/mL
PFBA	M	3.409	10768	1909335	PFBA-13C_IS	0.0500	0.0572	ng/mL
PFBA-13C	Auto	3.409	1909335	5123445	13C7-PFUnDA_IS	5.0000	4.7777	ng/mL
PFBA-13C_IS	Auto	3.409	1909335	1909335	----	5.0000	5.0000	ng/mL
PFPeA	Auto	3.971	57735	1110014	PFPeA-13C_IS	0.0500	0.0508	ng/mL
PFPeA-13C	Auto	3.972	1110014	5123445	13C7-PFUnDA_IS	5.0000	4.8600	ng/mL
PFPeA-13C_IS	Auto	3.972	1110014	1110014	----	5.0000	5.0000	ng/mL
PFHxA	Auto	4.228	43964	2982167	PFHxA-13C_IS	0.0500	0.0564	ng/mL
PFHxA-13C	Auto	4.228	2982167	5123445	13C7-PFUnDA_IS	5.0000	4.6015	ng/mL
PFHxA-13C_IS	Auto	4.228	2982167	2982167	----	5.0000	5.0000	ng/mL
PFHpA	M	4.409	41296	2641980	PFHpA-13C_IS	0.0500	0.0648	ng/mL
PFHpA-13C	Auto	4.408	2641980	5123445	13C7-PFUnDA_IS	5.0000	4.4951	ng/mL
PFHpA-13C_IS	Auto	4.408	2641980	2641980	----	5.0000	5.0000	ng/mL
PFOA	M	4.578	63552	3786363	PFOA-13C_IS	0.0500	0.0612	ng/mL
PFOA-13C	Auto	4.578	3786363	5123445	13C7-PFUnDA_IS	5.0000	4.8188	ng/mL
PFOA-13C_IS	Auto	4.578	3786363	3786363	----	5.0000	5.0000	ng/mL
PFNA	M	4.751	33382	3357887	PFNA-13C_IS	0.0500	0.0481	ng/mL
PFNA-13C	Auto	4.751	3357887	5123445	13C7-PFUnDA_IS	5.0000	4.9602	ng/mL
PFNA-13C_IS	Auto	4.751	3357887	3357887	----	5.0000	5.0000	ng/mL
PFDA	Auto	4.935	37584	2290897	PFDA-13C_IS	0.0500	0.0582	ng/mL
PFDA-13C	Auto	4.934	2290897	5123445	13C7-PFUnDA_IS	5.0000	4.8673	ng/mL
PFDA-13C_IS	Auto	4.934	2290897	2290897	----	5.0000	5.0000	ng/mL
PFUnA	Auto	5.120	39433	3530866	PFUnA-13C_IS	0.0500	0.0505	ng/mL
PFUnA-13C	Auto	5.119	3530866	5123445	13C7-PFUnDA_IS	5.0000	4.9753	ng/mL
PFUnA-13C_IS	Auto	5.119	3530866	3530866	----	5.0000	5.0000	ng/mL
PFDoA	M	5.295	33119	3836433	PFDoA-13C_IS	0.0500	0.0485	ng/mL
PFDoA-13C	Auto	5.299	3836433	5123445	13C7-PFUnDA_IS	5.0000	4.9010	ng/mL
PFDoA-13C_IS	Auto	5.299	3836433	3836433	----	5.0000	5.0000	ng/mL
PFTrDA	Auto	5.463	35922	3821361	PFTeDA-13C_IS	0.0500	0.0460	ng/mL
PFTeDA	Auto	5.609	48367	3821361	PFTeDA-13C_IS	0.0500	0.0572	ng/mL
PFTeDA-13C	Auto	5.609	3821361	5123445	13C7-PFUnDA_IS	5.0000	4.8654	ng/mL
PFTeDA-13C_IS	Auto	5.609	3821361	3821361	----	5.0000	5.0000	ng/mL
FOSA	Auto	5.222	17974	1574332	FOSA-13C_IS	0.0500	0.0476	ng/mL
FOSA-13C	Auto	5.223	1574332	5123445	13C7-PFUnDA_IS	5.0000	4.8310	ng/mL
FOSA-13C_IS	Auto	5.223	1574332	1574332	----	5.0000	5.0000	ng/mL
N-MeFOSA	Auto	5.609	6908	358186	N-MeFOSA-d3_IS	0.0500	0.0507	ng/mL
N-MeFOSA-d3	Auto	5.607	358186	5123445	13C7-PFUnDA_IS	5.0000	4.8986	ng/mL
N-MeFOSA-d3_IS	Auto	5.607	358186	358186	----	5.0000	5.0000	ng/mL
N-EtFOSA	M	5.733	1408	408810	N-EtFOSA-d9_IS	0.0500	0.0568	ng/mL
N-EtFOSA-d9	Auto	5.729	408810	5123445	13C7-PFUnDA_IS	5.0000	4.7992	ng/mL
N-EtFOSA-d9_IS	Auto	5.729	408810	408810	----	5.0000	5.0000	ng/mL

210909_008 (continued)

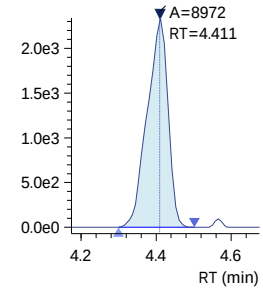
(Table continued from previous page)

Name	Mode ID	Found RT	Area	ISTD Area	ISTD Name	Std. Conc.	Conc.	Unit
N-MeFOSE	Auto	5.591	10319	546757	N-MeFOSE-d7_IS	0.0500	0.0525	ng/mL
N-MeFOSE-d7	Auto	5.584	546757	5123445	13C7-PFUnDA_IS	5.0000	4.8561	ng/mL
N-MeFOSE-d7_IS	Auto	5.584	546757	546757	----	5.0000	5.0000	ng/mL
N-EtFOSE	Auto	5.712	9269	500666	N-EtFOSE-d9_IS	0.0500	0.0534	ng/mL
N-EtFOSE-d9	Auto	5.701	500666	5123445	13C7-PFUnDA_IS	5.0000	4.6957	ng/mL
N-EtFOSE-d9_IS	Auto	5.701	500666	500666	----	5.0000	5.0000	ng/mL
N-MeFOSAA	Auto	5.036	3383	589586	N-MeFOSAA-d3_IS	0.0500	0.0439	ng/mL
N-MeFOSAA-d3	Auto	5.032	589586	5123445	13C7-PFUnDA_IS	5.0000	4.5581	ng/mL
N-MeFOSAA-d3_IS	Auto	5.032	589586	589586	----	5.0000	5.0000	ng/mL
N-EtFOSAA	MI R1	5.133	2447	537572	N-EtFOSAA-d5_IS	0.0500	0.0558	ng/mL
N-EtFOSAA-d5	Auto	5.131	537572	5123445	13C7-PFUnDA_IS	5.0000	4.9148	ng/mL
N-EtFOSAA-d5_IS	Auto	5.131	537572	537572	----	5.0000	5.0000	ng/mL
4_2-FTS_1	MI R1	4.202	4876	579764	4_2-FTS-13C_IS	0.0469	0.0466	ng/mL
4_2-FTS-13C	Auto	4.203	579764	5123445	13C7-PFUnDA_IS	5.0000	4.7823	ng/mL
4_2-FTS-13C_IS	Auto	4.203	579764	579764	----	5.0000	5.0000	ng/mL
6_2-FTS_1	MI R1	4.565	7156	527146	6_2-FTS-13C_IS	0.0476	0.0520	ng/mL
6_2-FTS-13C	Auto	4.568	527146	5123445	13C7-PFUnDA_IS	5.0000	5.1466	ng/mL
6_2-FTS-13C_IS	Auto	4.568	527146	527146	----	5.0000	5.0000	ng/mL
8_2-FTS_1	M	4.932	3437	375592	8_2-FTS-13C_IS	0.0480	0.0479	ng/mL
8_2-FTS-13C	Auto	4.932	375592	5123445	13C7-PFUnDA_IS	5.0000	5.0443	ng/mL
8_2-FTS-13C_IS	Auto	4.932	375592	375592	----	5.0000	5.0000	ng/mL
10_2-FtS_1	Auto	5.306	3064	375592	8_2-FTS-13C_IS	0.0483	0.0526	ng/mL
HPFO_DA	M	4.294	5024	524538	HFPO_DA-13C_IS	0.0500	0.0479	ng/mL
HFPO_DA-13C	Auto	4.295	524538	5123445	13C7-PFUnDA_IS	5.0000	4.7778	ng/mL
HFPO_DA-13C_IS	Auto	4.295	524538	524538	----	5.0000	5.0000	ng/mL

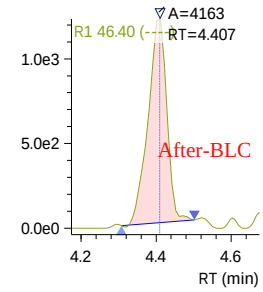


210909_008 (continued)

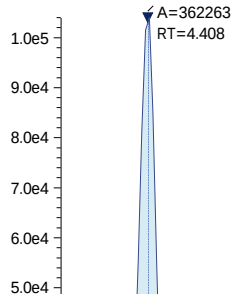
PFHxS_1
Conc 0.0558
R#1 46.40 (62.92)
Q 399.00>80.00 (-) 2.34e3



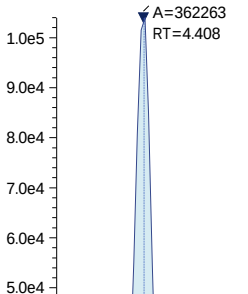
R1 399.00>99.00 (-) 1.24e3



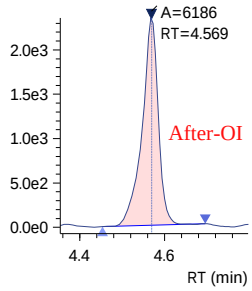
PFHxS-18O
Conc 4.5594
Q 402.70>84.05 (-) 1.04e5



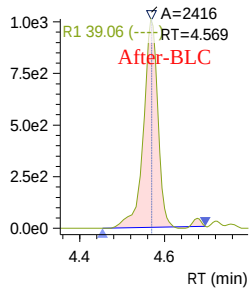
PFHxS-18O_IS
Conc 5.0000
ISTD 402.70>84.05 (-) 1.04e5



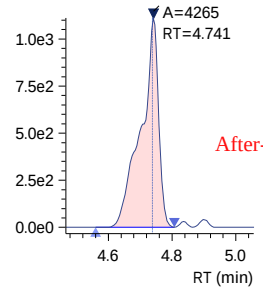
PFHpS_1
Conc 0.0497
R#1 39.06 (40.53)
Q 449.00>80.15 (-) 2.36e3



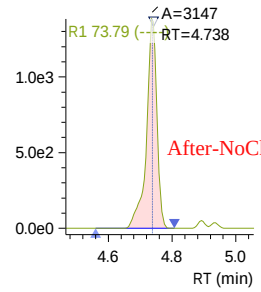
R1 449.00>99.20 (-) 1.01e3



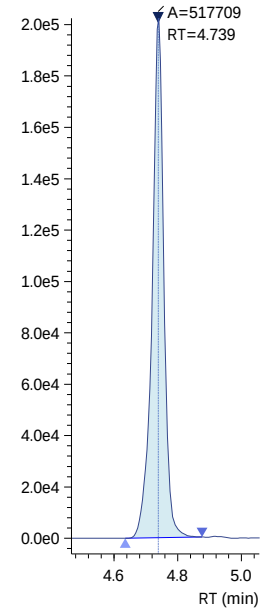
PFOS_1
Conc 0.0440
R#1 73.79 (73.81)
Q 499.00>80.00 (-) 1.11e3



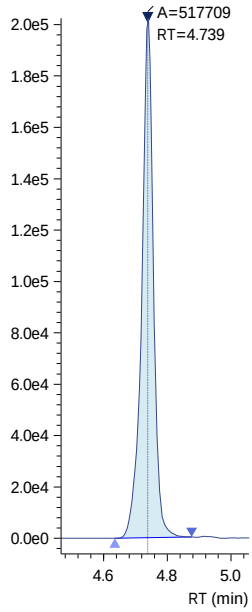
R1 499.00>99.00 (-) 1.38e3



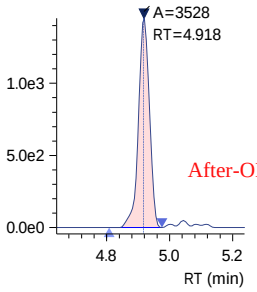
PFOS-13C
Conc 4.7682
Q 502.80>80.05 (-) 2.02e5



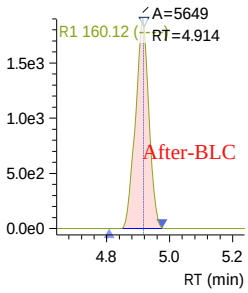
PFOS-13C_IS
Conc 5.0000
ISTD 502.80>80.05 (-) 2.02e5



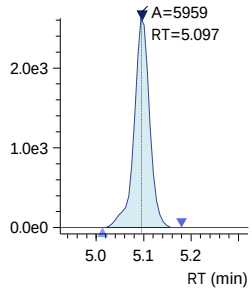
PFNS
Conc 0.0501
R#1 160.12 (160.25)
Q 549.00>99.00 (-) 1.45e3



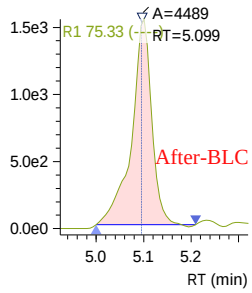
R1 549.00>79.95 (-) 1.90e3



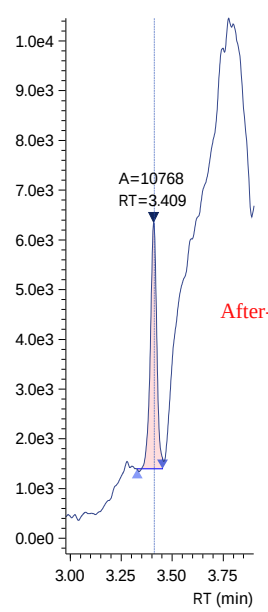
PFDS_1
Conc 0.0489
R#1 75.33 (72.12)
Q 599.00>79.90 (-) 2.62e3



R1 599.00>99.10 (-) 1.56e3

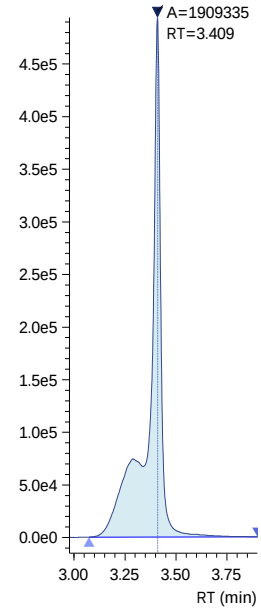


PFBA
Conc 0.0572
Q 213.00>169.10 (-) 1.05e4

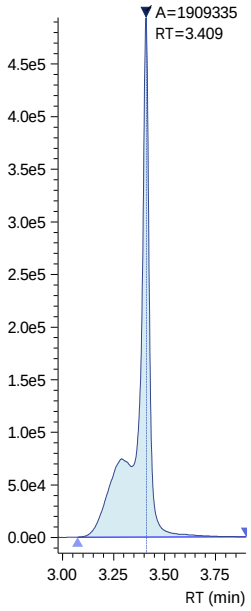


210909_008 (continued)

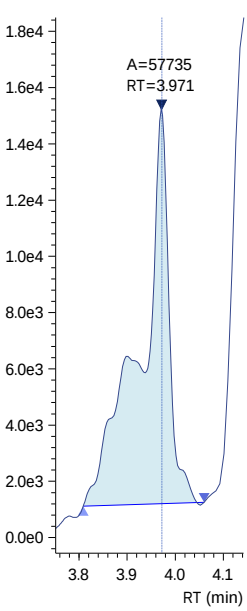
PFBA-13C
Conc 4.7777
Q 216.90>172.15 (-) 4.94e5



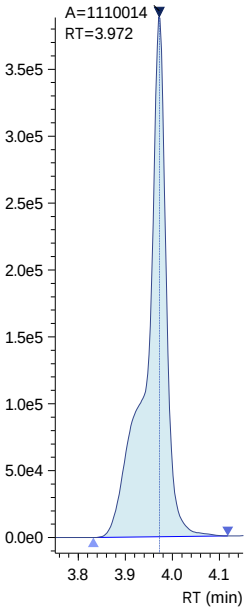
PFBA-13C_IS
Conc 5.0000
ISTD 216.90>172.15 (-) 4.94e5



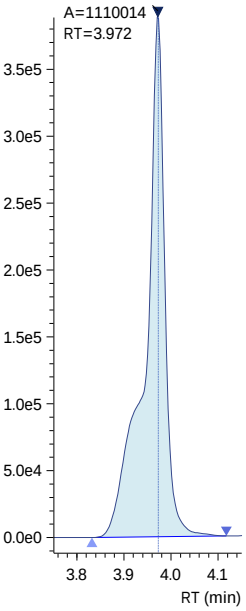
PFPeA
Conc 0.0508
Q 263.05>219.10 (-) 1.85e4



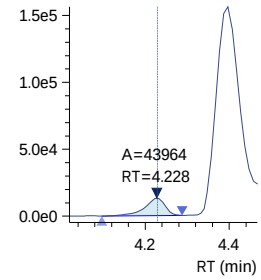
PFPeA-13C
Conc 4.8600
Q 267.90>223.00 (-) 3.89e5



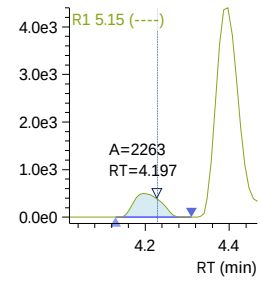
PFPeA-13C_IS
Conc 5.0000
ISTD 267.90>223.00 (-) 3.89e5



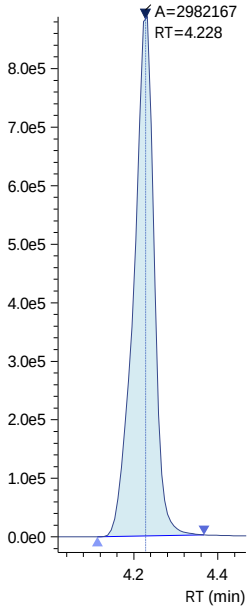
PFHxA
Conc 0.0564
R#1 5.15 (4.40)
Q 313.00>269.00 (-) 1.57e5



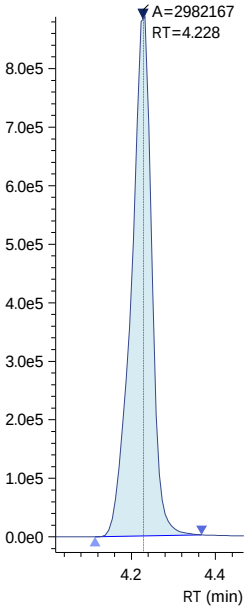
R1 313.00>119.10 (-) 4.40e3



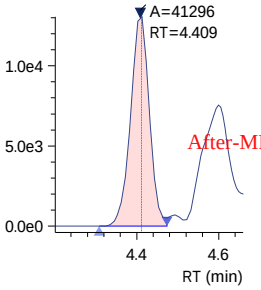
PFHxA-13C
Conc 4.6015
Q 314.90>270.10 (-) 8.89e5



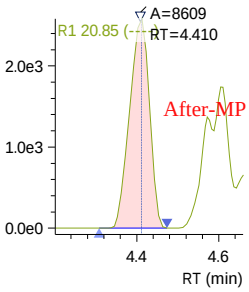
PFHxA-13C_IS
Conc 5.0000
ISTD 314.90>270.10 (-) 8.89e5



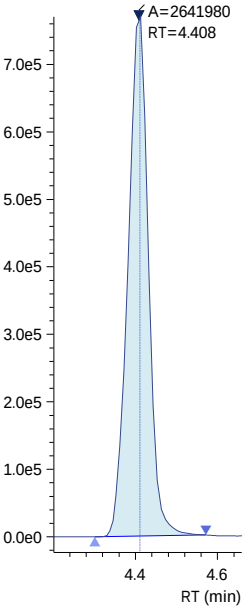
PFHpA
Conc 0.0648
R#1 20.85 (24.40)
Q 362.90>319.00 (-) 1.31e4



R1 362.90>169.00 (-) 2.58e3

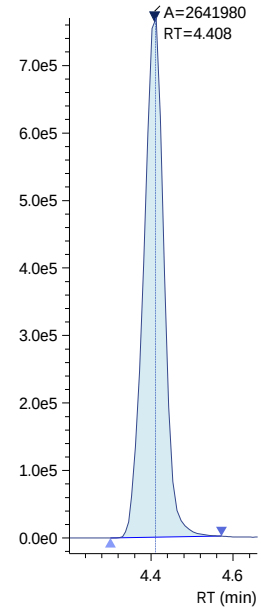


PFHpA-13C
Conc 4.4951
Q 366.90>322.10 (-) 7.70e5

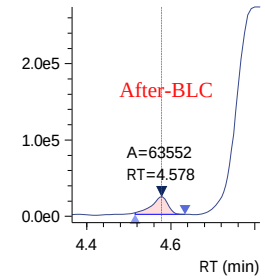


210909_008 (continued)

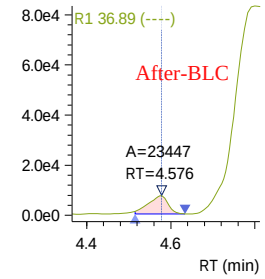
PFHpA-13C_IS
Conc 5.0000
ISTD 366.90>322.10 (-) 7.70e5



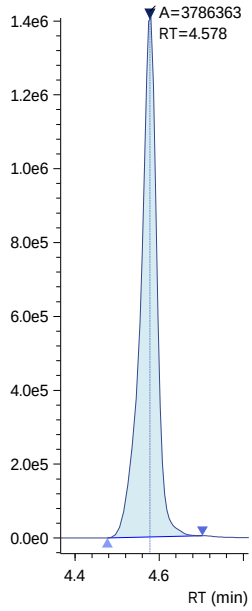
PFOA
Conc 0.0612
R#1 36.89 (31.89)
Q 413.00>369.00 (-) 2.74e5



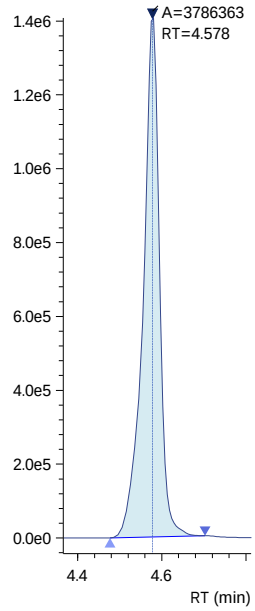
R1 413.00>169.10 (-) 8.35e4



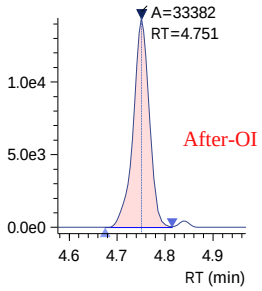
PFOA-13C
Conc 4.8188
Q 416.80>372.05 (-) 1.41e6



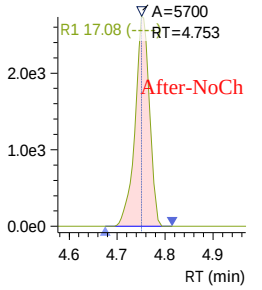
PFOA-13C_IS
Conc 5.0000
ISTD 416.80>372.05 (-) 1.41e6



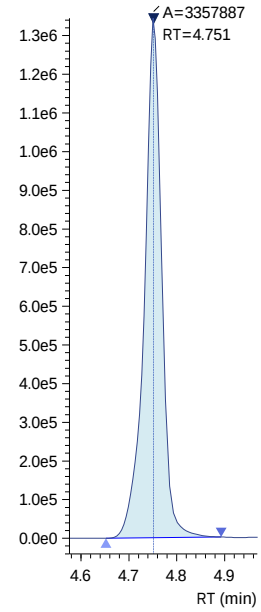
PFNA
Conc 0.0481
R#1 17.08 (23.25)
Q 463.00>418.90 (-) 1.44e4



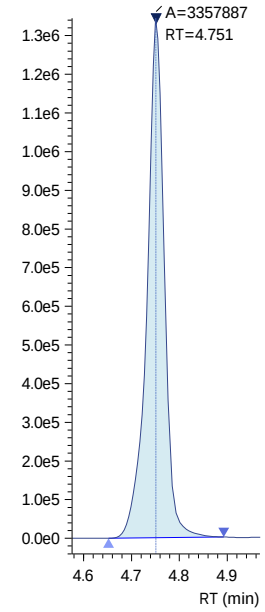
R1 463.00>219.00 (-) 2.73e3



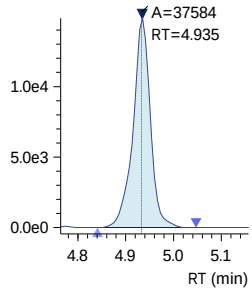
PFNA-13C
Conc 4.9602
Q 467.80>423.00 (-) 1.34e6



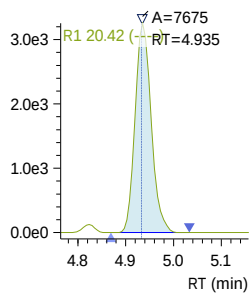
PFNA-13C_IS
Conc 5.0000
ISTD 467.80>423.00 (-) 1.34e6



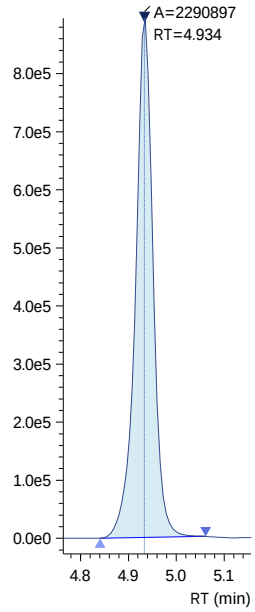
PFDA
Conc 0.0582
R#1 20.42 (20.24)
Q 513.00>468.80 (-) 1.48e4



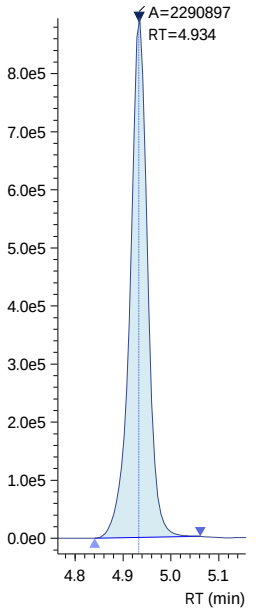
R1 513.00>219.10 (-) 3.25e3



PFDA-13C
Conc 4.8673
Q 514.80>469.95 (-) 8.96e5

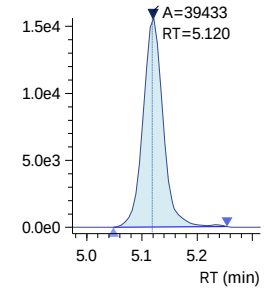


PFDA-13C_IS
Conc 5.0000
ISTD 514.80>469.95 (-) 8.96e5

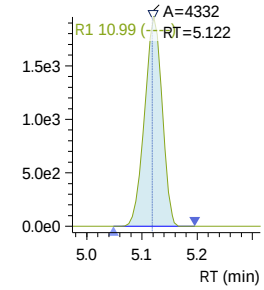


210909_008 (continued)

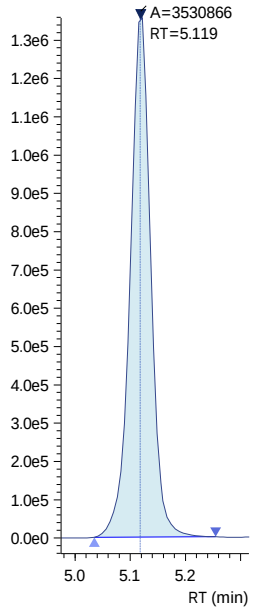
PFUnA
Conc 0.0505
R#1 10.99 (12.46)
Q 563.00>518.90 (-) 1.56e4



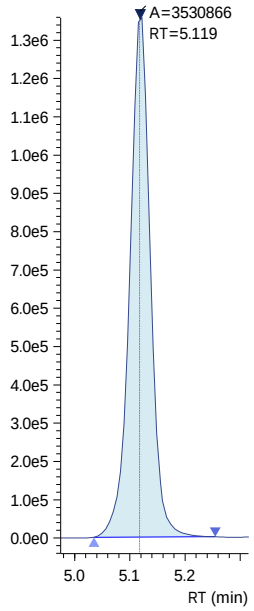
R1 563.00>219.00 (-) 1.96e3



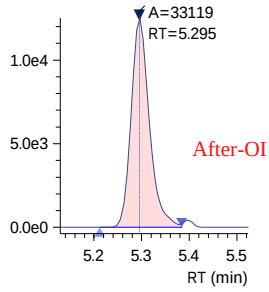
PFUnA-13C
Conc 4.9753
Q 564.80>519.95 (-) 1.36e6



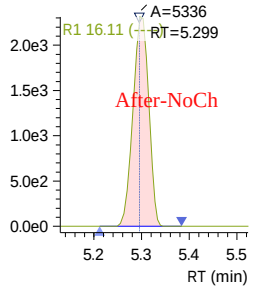
PFUnA-13C_IS
Conc 5.0000
ISTD 564.80>519.95 (-) 1.36e6



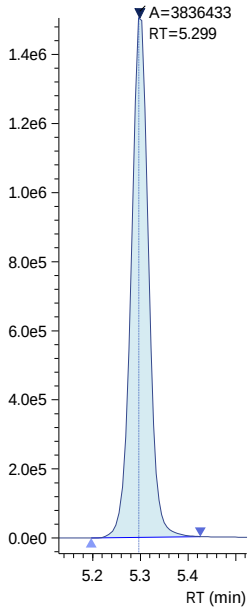
PFDoA
Conc 0.0485
R#1 16.11 (16.50)
Q 613.05>569.00 (-) 1.25e4



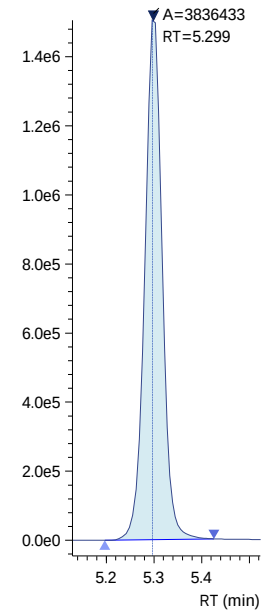
R1 613.05>169.00 (-) 2.31e3



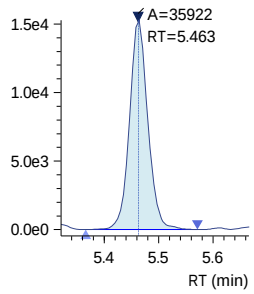
PFDoA-13C
Conc 4.9010
Q 614.80>569.95 (-) 1.51e6



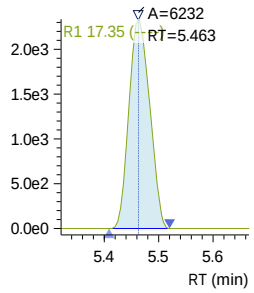
PFDoA-13C_IS
Conc 5.0000
ISTD 614.80>569.95 (-) 1.51e6



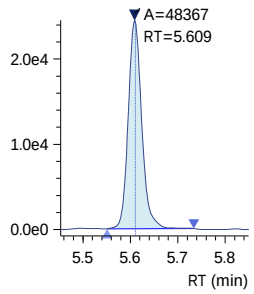
PFTrDA
Conc 0.0460
R#1 17.35 (15.29)
Q 663.00>618.90 (-) 1.53e4



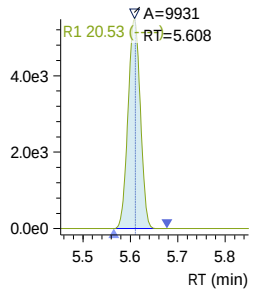
R1 662.90>169.00 (-) 2.34e3



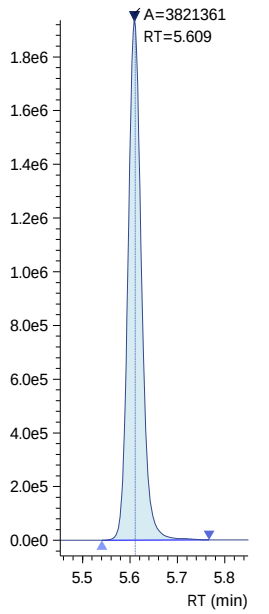
PFTeDA
Conc 0.0572
R#1 20.53 (17.47)
Q 713.00>669.00 (-) 2.45e4



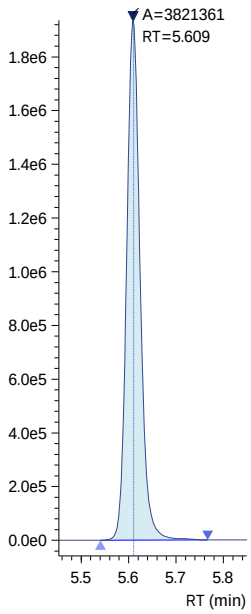
R1 713.00>169.10 (-) 5.48e3



PFTeDA-13C
Conc 4.8654
Q 714.70>669.90 (-) 1.94e6

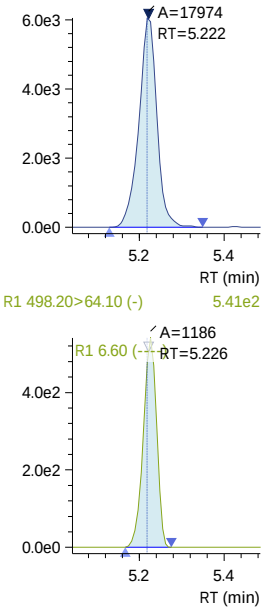


PFTeDA-13C_IS
Conc 5.0000
ISTD 714.70>669.90 (-) 1.94e6

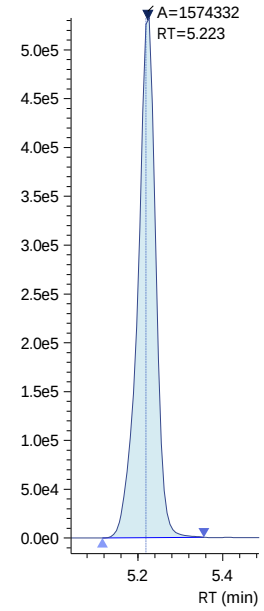


210909_008 (continued)

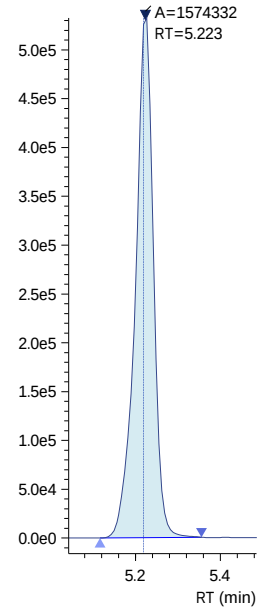
FOSA
Conc 0.0476
R#1 6.60 (5.19)
Q 498.20>78.00 (-) 6.06e3
R1 498.20>64.10 (-) 5.41e2



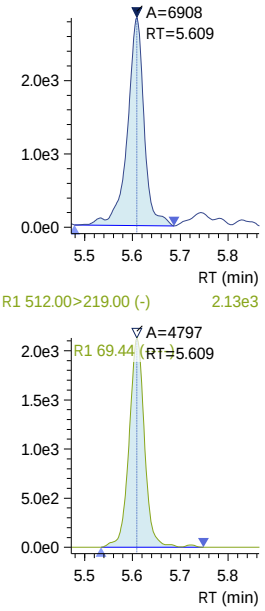
FOSA-13C
Conc 4.8310
Q 506.00>78.05 (-) 5.33e5



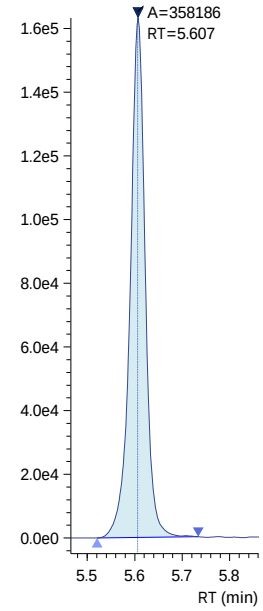
FOSA-13C_IS
Conc 5.0000
ISTD 506.00>78.05 (-) 5.33e5



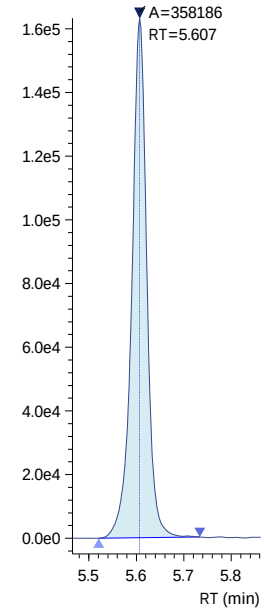
N-MeFOSA
Conc 0.0507
R#1 69.44 (69.94)
Q 512.00>169.10 (-) 2.85e3
R1 512.00>219.00 (-) 2.13e3



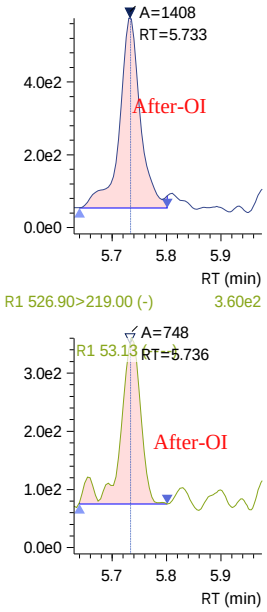
N-MeFOSA-d3
Conc 4.8986
Q 514.90>168.90 (-) 1.63e5



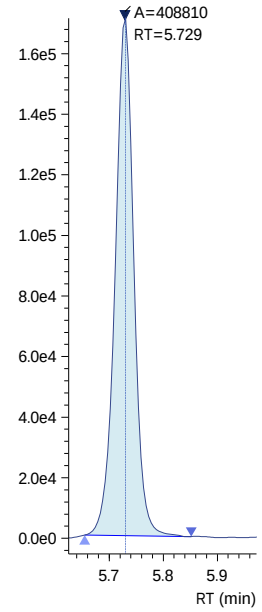
N-MeFOSA-d3_IS
Conc 5.0000
ISTD 514.90>168.90 (-) 1.63e5



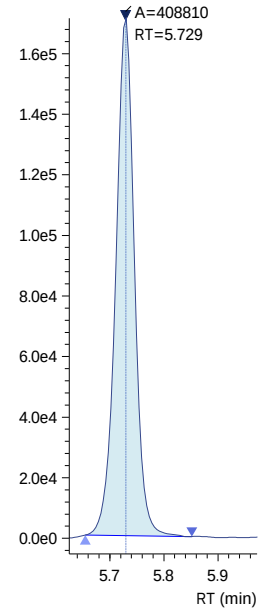
N-MeFOSA
Conc 0.0568
R#1 53.13 (66.52)
Q 526.90>169.10 (-) 5.75e2
R1 526.90>219.00 (-) 3.60e2



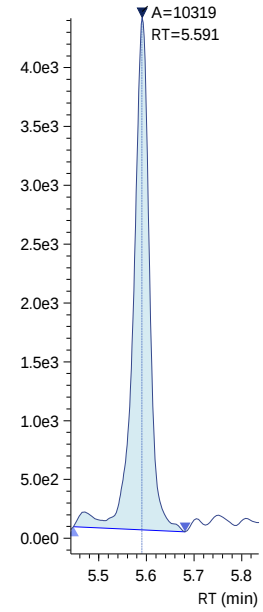
N-EtFOSA-d9
Conc 4.7992
Q 530.90>169.15 (-) 1.72e5



N-EtFOSA-d9_IS
Conc 5.0000
ISTD 530.90>169.15 (-) 1.72e5

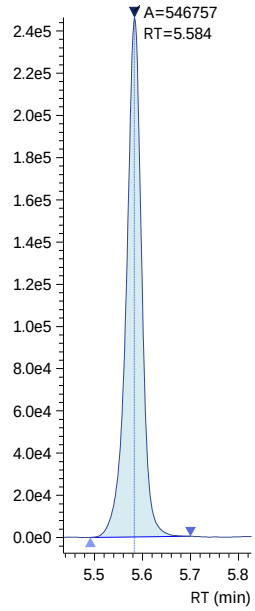


N-MeFOSE
Conc 0.0525
Q 616.00>59.00 (-) 4.42e3

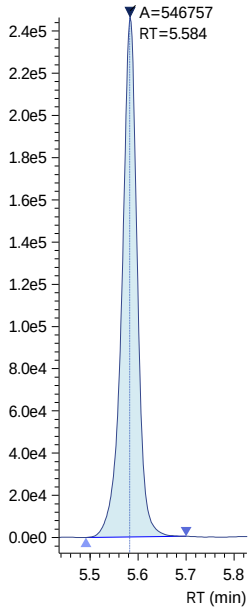


210909_008 (continued)

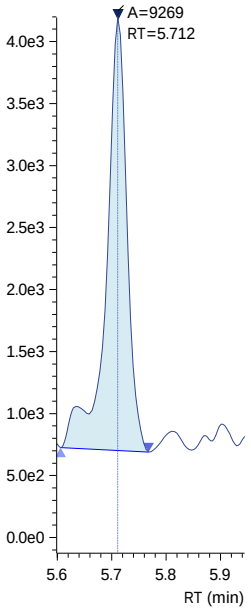
N-MeFOSE-d7
Conc 4.8561
Q 622.70>59.10 (-) 2.46e5



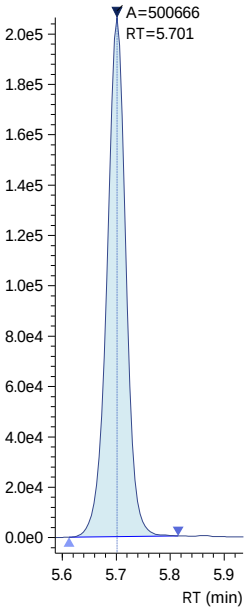
N-MeFOSE-d7_IS
Conc 5.0000
ISTD 622.70>59.10 (-) 2.46e5



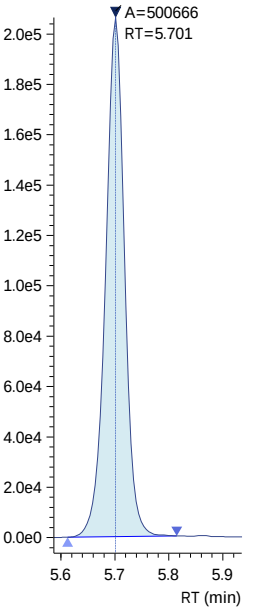
N-EtFOSE
Conc 0.0534
Q 630.00>58.90 (-) 4.19e3



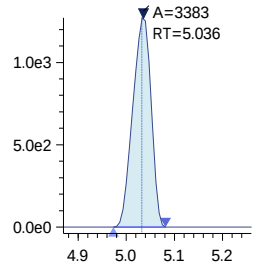
N-EtFOSE-d9
Conc 4.6957
Q 638.70>59.10 (-) 2.07e5



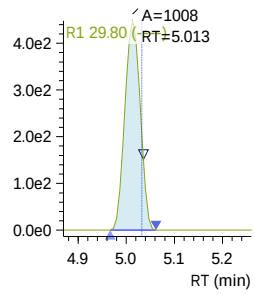
N-EtFOSE-d9_IS
Conc 5.0000
ISTD 638.70>59.10 (-) 2.07e5



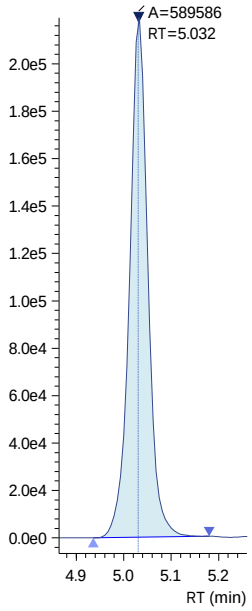
N-MeFOSAA
Conc 0.0439
R#1 29.80 (39.56)
Q 570.20>419.00 (-) 1.27e3



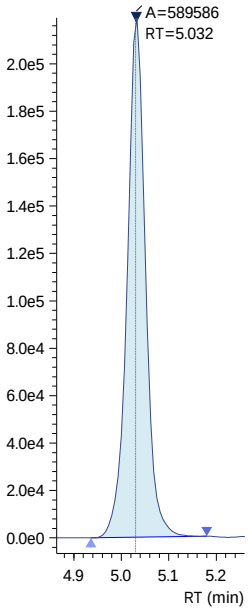
R1 570.20>512.00 (-) 4.48e2



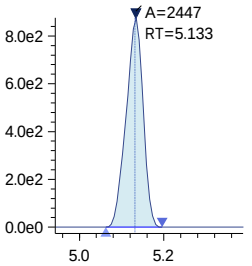
N-MeFOSAA-d3
Conc 4.5581
Q 572.80>419.05 (-) 2.19e5



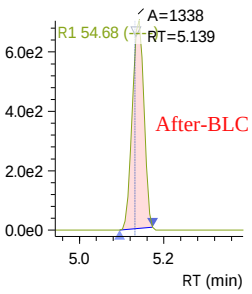
N-MeFOSAA-d3_IS
Conc 5.0000
ISTD 572.80>419.05 (-) 2.19e5



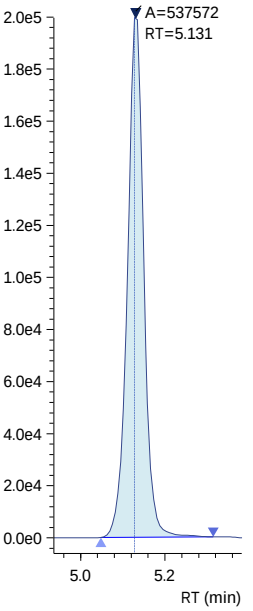
N-EtFOSAA
Conc 0.0558
R#1 54.68 (84.54)
Q 584.20>418.95 (-) 8.76e2



R1 584.20>526.10 (-) 7.05e2

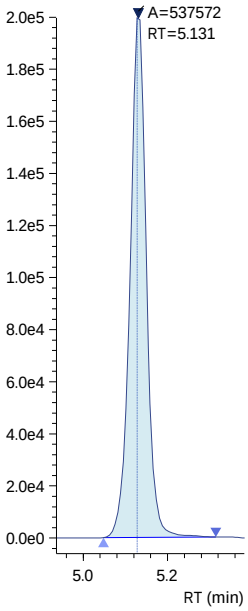


N-EtFOSAA-d5
Conc 4.9148
Q 588.80>419.00 (-) 2.00e5

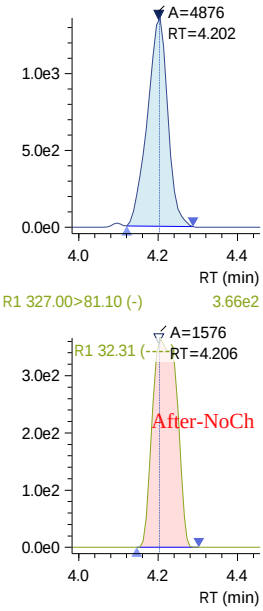


210909_008 (continued)

N-EtFOSAA-d5_IS
Conc 5.0000
ISTD 588.80>419.00 (-) 2.00e5

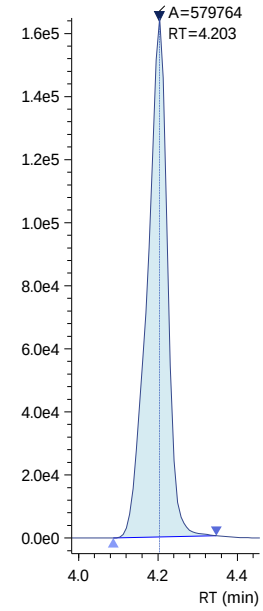


4_2-FTS_1
Conc 0.0466
R#1 32.31 (34.12)
Q 327.00>307.05 (-) 1.36e3

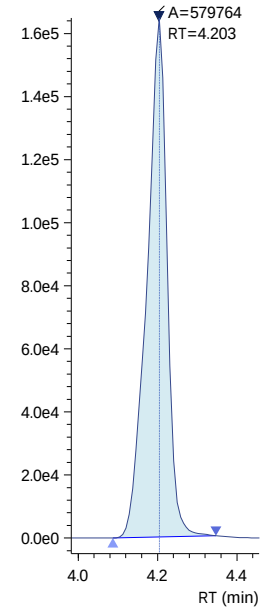


R1 327.00>81.10 (-) 3.66e2

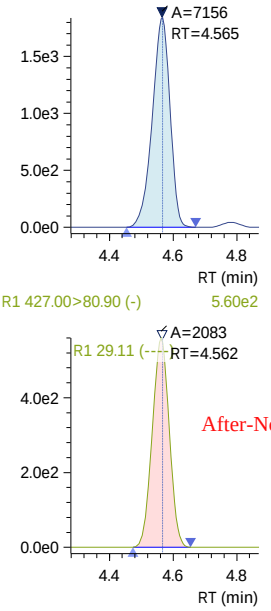
4_2-FTS-13C
Conc 4.7823
Q 328.80>309.05 (-) 1.65e5



4_2-FTS-13C_IS
Conc 5.0000
ISTD 328.80>309.05 (-) 1.65e5

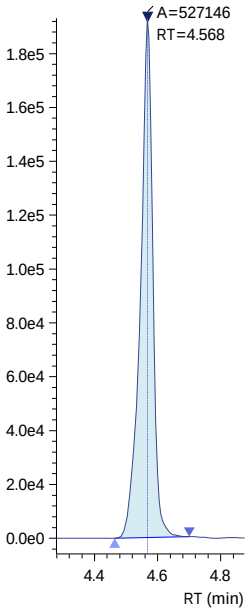


6_2-FTS_1
Conc 0.0520
R#1 29.11 (37.36)
Q 427.00>407.00 (-) 1.84e3

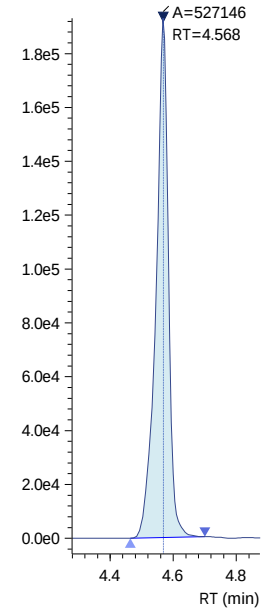


R1 427.00>80.90 (-) 5.60e2

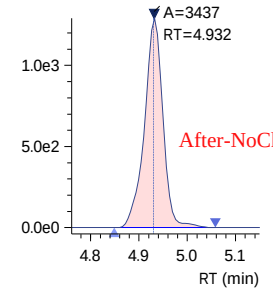
6_2-FTS-13C
Conc 5.1466
Q 428.90>409.00 (-) 1.93e5



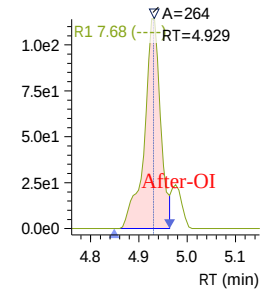
6_2-FTS-13C_IS
Conc 5.0000
ISTD 428.90>409.00 (-) 1.93e5



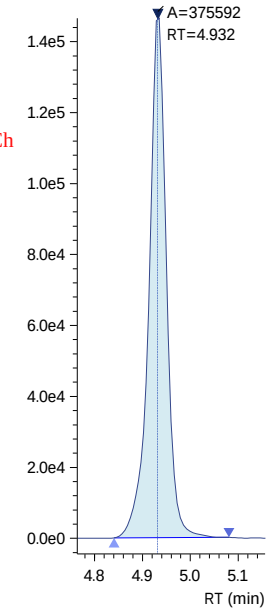
8_2-FTS_1
Conc 0.0479
R#1 7.68 (10.63)
Q 527.10>506.90 (-) 1.29e3



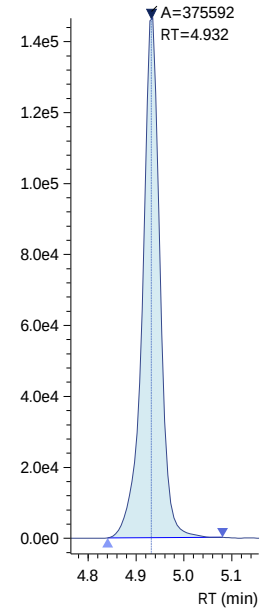
R1 527.20>487.00 (-) 1.14e2



8_2-FTS-13C
Conc 5.0443
Q 528.80>509.00 (-) 1.47e5

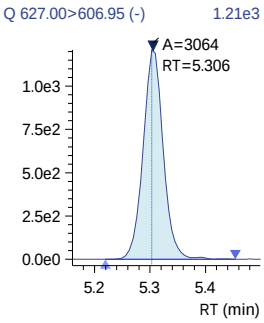


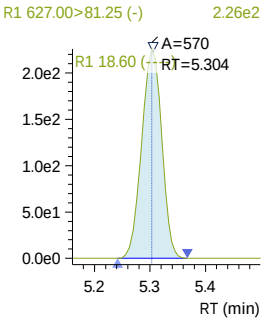
8_2-FTS-13C_IS
Conc 5.0000
ISTD 528.80>509.00 (-) 1.47e5



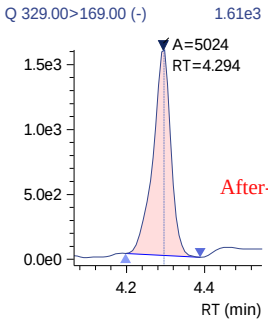
210909_008 (continued)

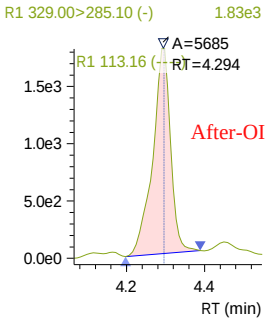
10_2-FtS_1
Conc 0.0526
R#1 18.60 (21.61)



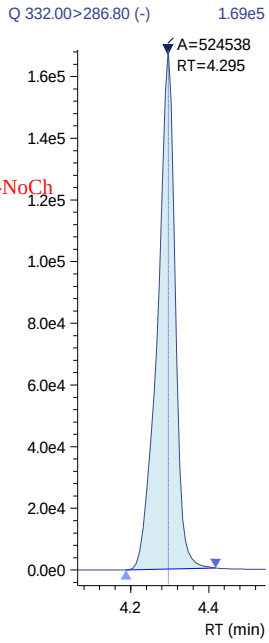


HPFO_DA
Conc 0.0479
R#1 113.16 (106.46)

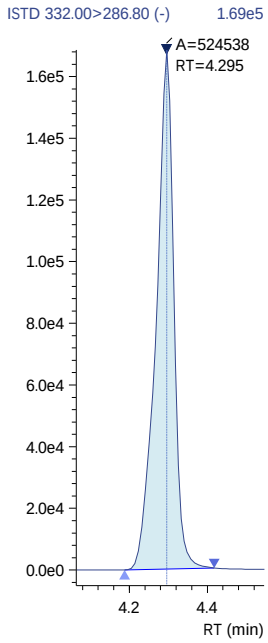




HFPO_DA-13C
Conc 4.7778



HFPO_DA-13C_IS
Conc 5.0000



After-NoCh

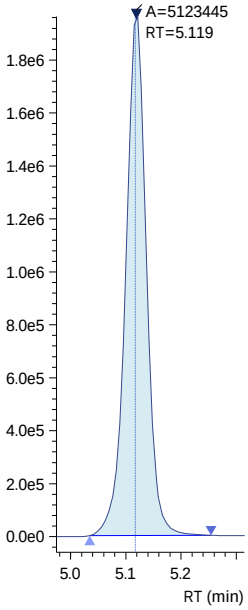
After-OI

Insight Report
Before Manual Integration
Printed 9/9/2021 15:44:22

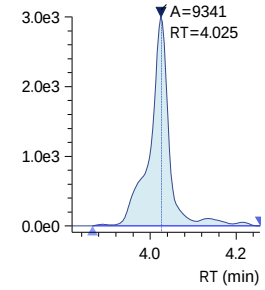
210909_008

Sample ID: PFC ICAL @ 0.05ppb
Date Acquired: 9/9/2021 1:55:03 PM
Acquired by: System Administrator
Data File: 210909_008
Vial: 1 | Inj. Volume: 15.0000uL | Tray: 0

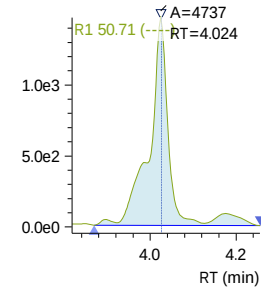
13C7-PFUnDA_IS
Conc 5.0000
ISTD 570.00>525.00 (-) 1.96e6



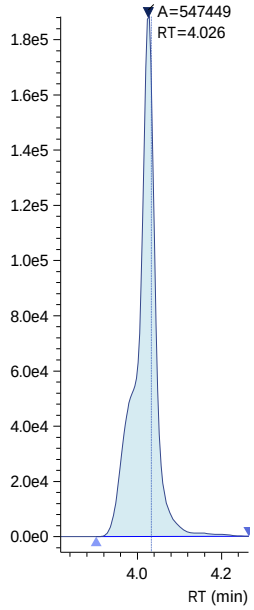
PFBS_1
Conc 0.0494
R#1 50.71 (46.55)
Q 299.00>80.00 (-) 3.01e3



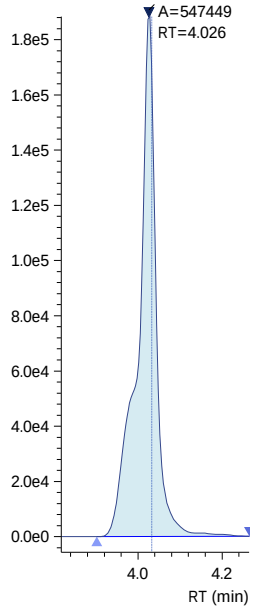
R1 298.80>99.00 (-) 1.48e3



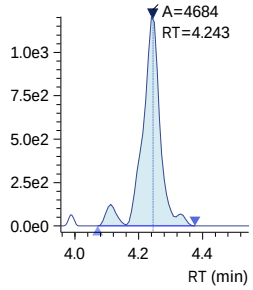
PFBS-13C
Conc 4.9145
Q 301.80>80.00 (-) 1.88e5



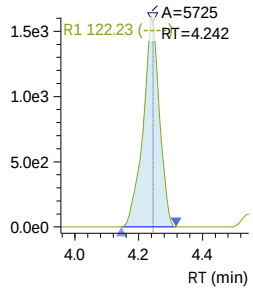
PFBS-13C_IS
Conc 5.0000
ISTD 301.80>80.00 (-) 1.88e5



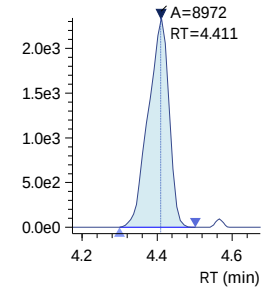
PFPeS
Conc 0.0589
R#1 122.23 (154.38)
Q 349.00>99.00 (-) 1.21e3

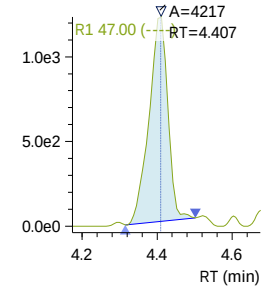


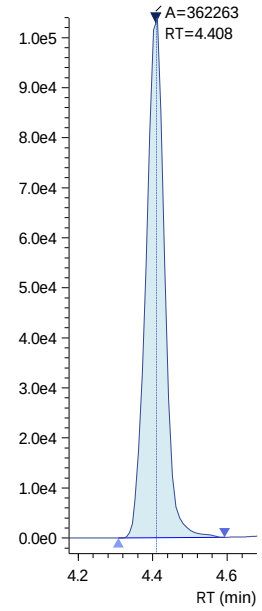
R1 349.00>79.95 (-) 1.61e3

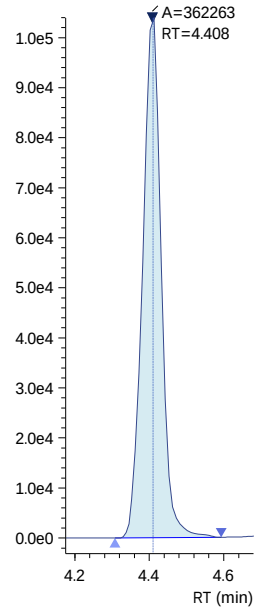


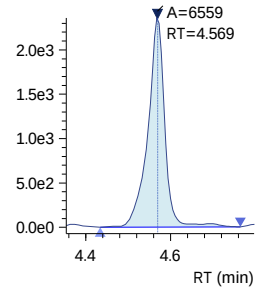
210909_008 (continued)

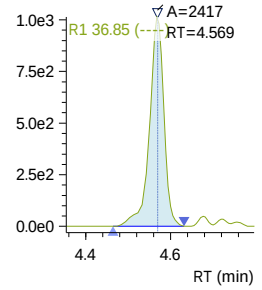
PFHxS_1
Conc 0.0695
R#1 47.00 (76.59)
Q 399.00>80.00 (-) 2.34e3


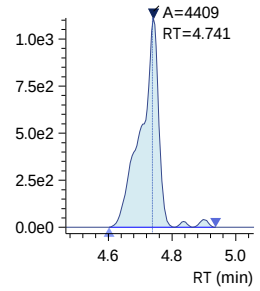
R1 399.00>99.00 (-) 1.24e3


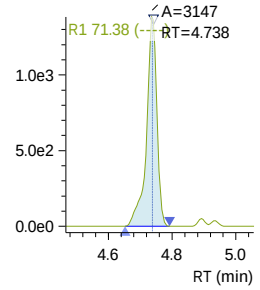
PFHxS-18O
Conc 4.5594
Q 402.70>84.05 (-) 1.04e5


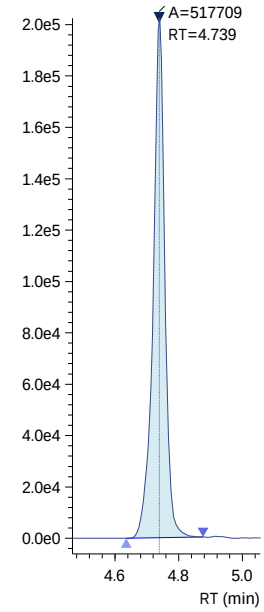
PFHxS-18O_IS
Conc 5.0000
ISTD 402.70>84.05 (-) 1.04e5


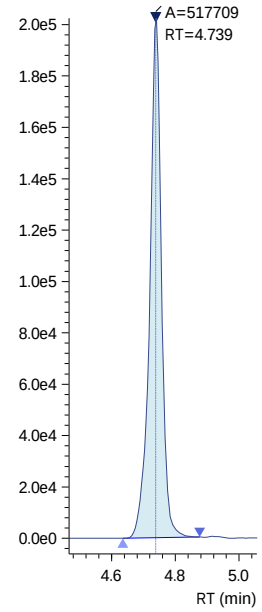
PFHpS_1
Conc 0.0520
R#1 36.85 (53.58)
Q 449.00>80.15 (-) 2.36e3


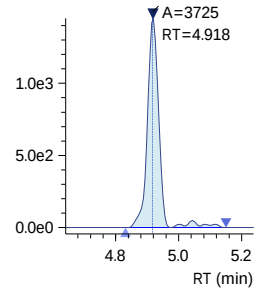
R1 449.00>99.20 (-) 1.01e3


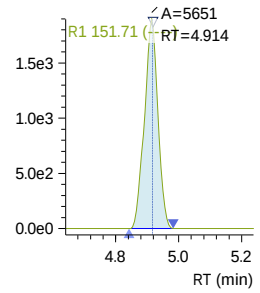
PFOS_1
Conc 0.0453
R#1 71.38 (84.68)
Q 499.00>80.00 (-) 1.11e3


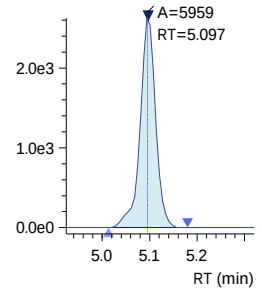
R1 499.00>99.00 (-) 1.38e3


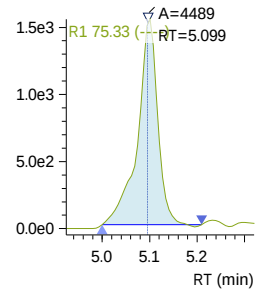
PFOS-13C
Conc 4.7682
Q 502.80>80.05 (-) 2.02e5


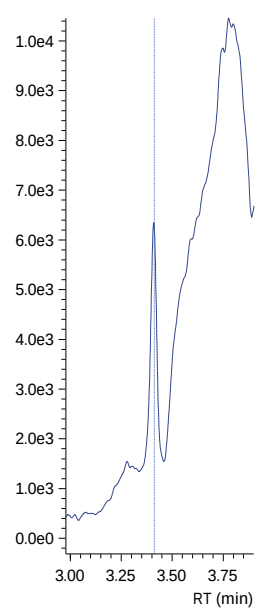
PFOS-13C_IS
Conc 5.0000
ISTD 502.80>80.05 (-) 2.02e5


PFNS
Conc 0.0524
R#1 151.71 (133.04)
Q 549.00>99.00 (-) 1.45e3


R1 549.00>79.95 (-) 1.90e3


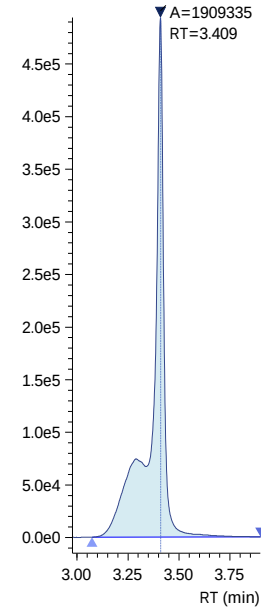
PFDS_1
Conc 0.0501
R#1 75.33 (89.20)
Q 599.00>79.90 (-) 2.62e3


R1 599.00>99.10 (-) 1.56e3


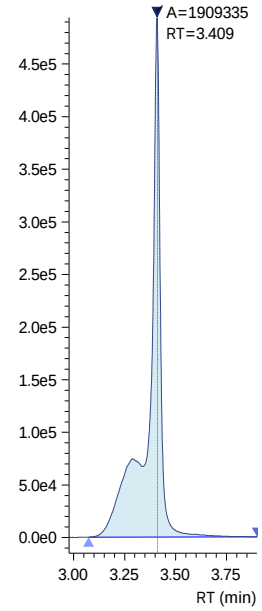
PFBA
Conc ----
Q 213.00>169.10 (-) 1.05e4


210909_008 (continued)

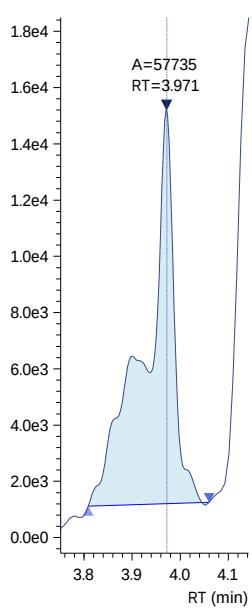
PFBA-13C
Conc 4.7777
Q 216.90>172.15 (-) 4.94e5



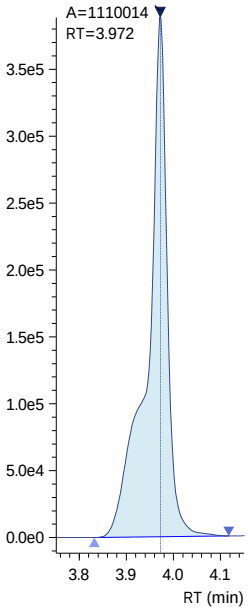
PFBA-13C_IS
Conc 5.0000
ISTD 216.90>172.15 (-) 4.94e5



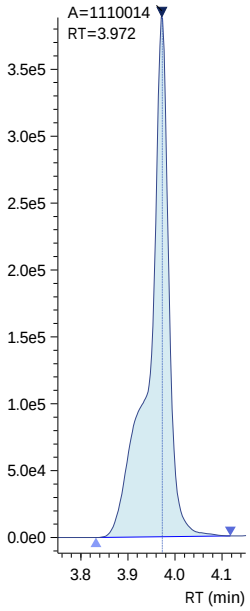
PFPeA
Conc 0.0508
Q 263.05>219.10 (-) 1.85e4



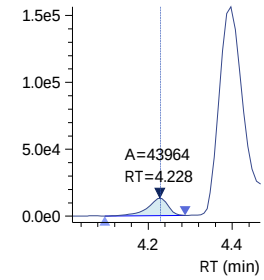
PFPeA-13C
Conc 4.8600
Q 267.90>223.00 (-) 3.89e5



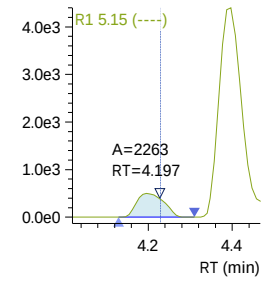
PFPeA-13C_IS
Conc 5.0000
ISTD 267.90>223.00 (-) 3.89e5



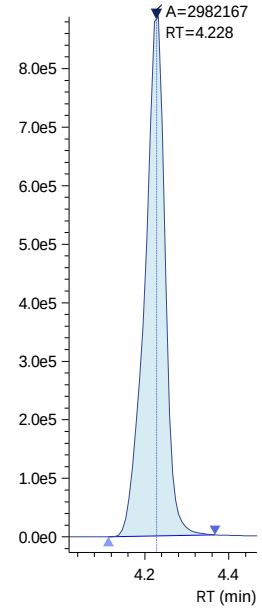
PFHxA
Conc 0.0564
R#1 5.15 (4.71)
Q 313.00>269.00 (-) 1.57e5



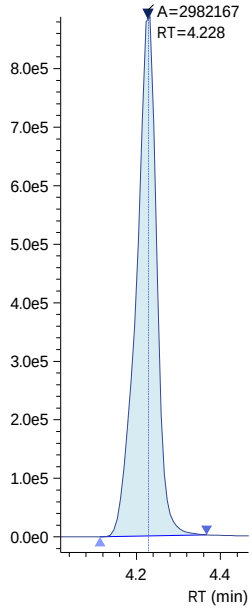
R1 313.00>119.10 (-) 4.40e3



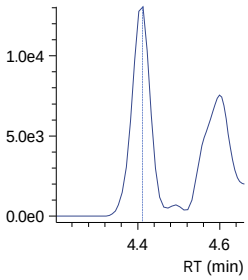
PFHxA-13C
Conc 4.6015
Q 314.90>270.10 (-) 8.89e5



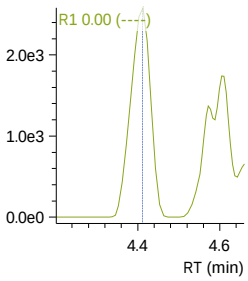
PFHxA-13C_IS
Conc 5.0000
ISTD 314.90>270.10 (-) 8.89e5



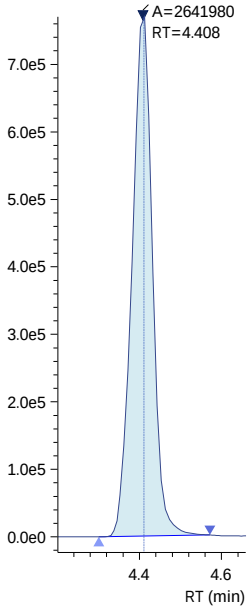
PFHpA
Conc ----
R#1 0.00 (24.79)
Q 362.90>319.00 (-) 1.31e4



R1 362.90>169.00 (-) 2.58e3



PFHpA-13C
Conc 4.4951
Q 366.90>322.10 (-) 7.70e5



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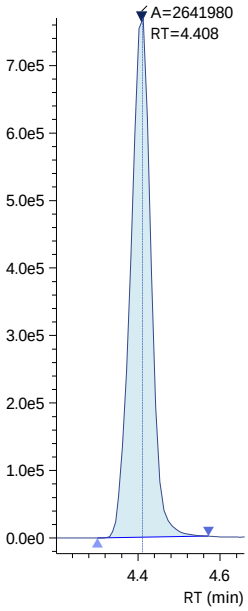
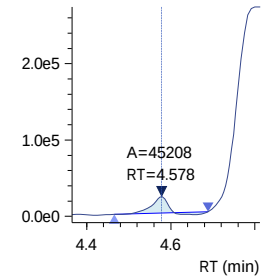
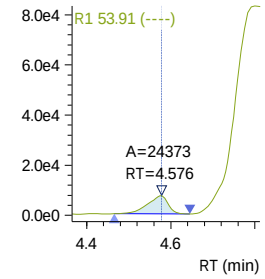
PFHpA-13C_IS
Conc 5.0000
ISTD 366.90>322.10 (-) 7.70e5



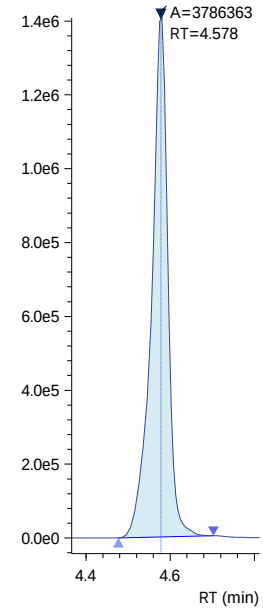
PFOA
Conc 0.0460
R#1 53.91 (30.61)
Q 413.00>369.00 (-) 2.74e5



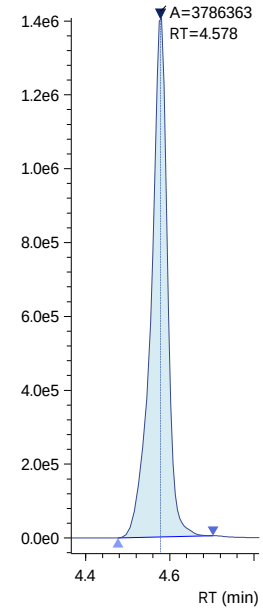
R1 413.00>169.10 (-) 8.35e4



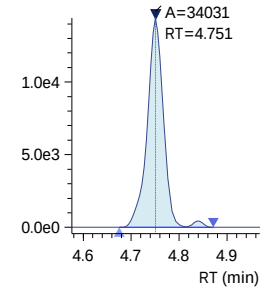
PFOA-13C
Conc 4.8188
Q 416.80>372.05 (-) 1.41e6



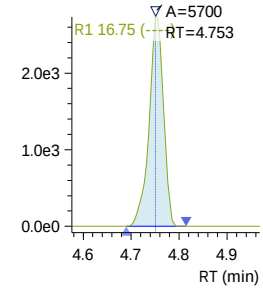
PFOA-13C_IS
Conc 5.0000
ISTD 416.80>372.05 (-) 1.41e6



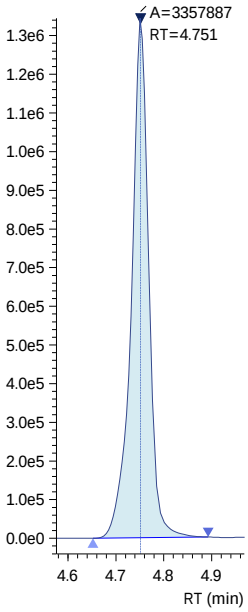
PFNA
Conc 0.0489
R#1 16.75 (23.82)
Q 463.00>418.90 (-) 1.44e4



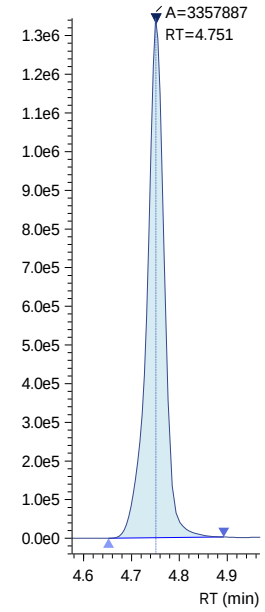
R1 463.00>219.00 (-) 2.73e3



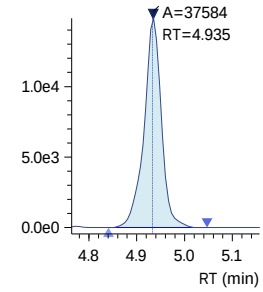
PFNA-13C
Conc 4.9602
Q 467.80>423.00 (-) 1.34e6



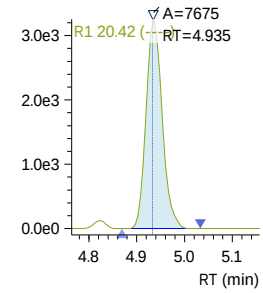
PFNA-13C_IS
Conc 5.0000
ISTD 467.80>423.00 (-) 1.34e6



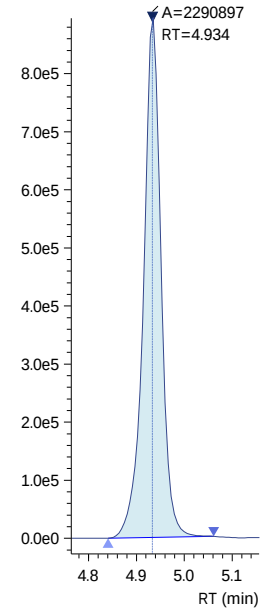
PFDA
Conc 0.0582
R#1 20.42 (20.11)
Q 513.00>468.80 (-) 1.48e4



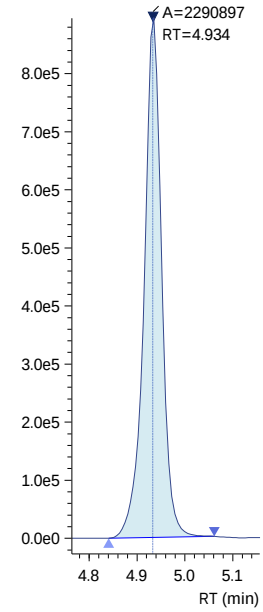
R1 513.00>219.10 (-) 3.25e3



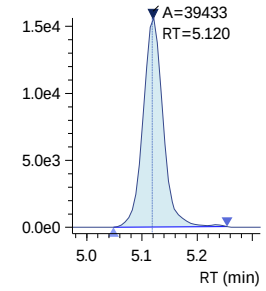
PFDA-13C
Conc 4.8673
Q 514.80>469.95 (-) 8.96e5

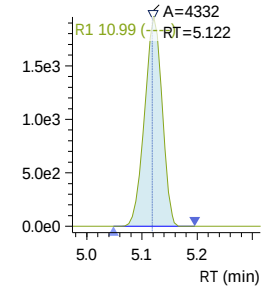


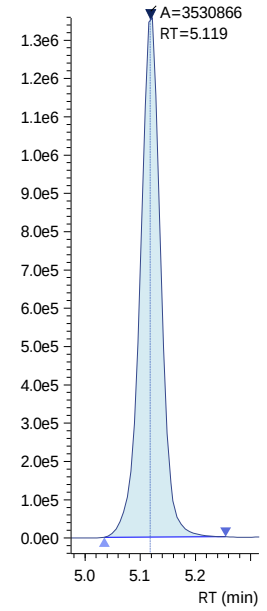
PFDA-13C_IS
Conc 5.0000
ISTD 514.80>469.95 (-) 8.96e5

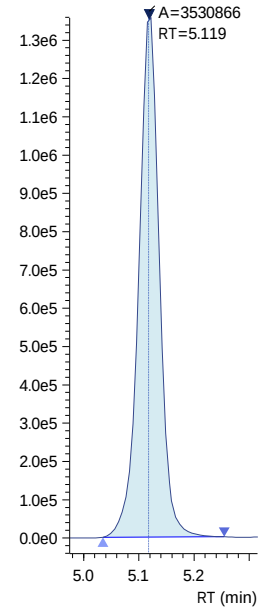


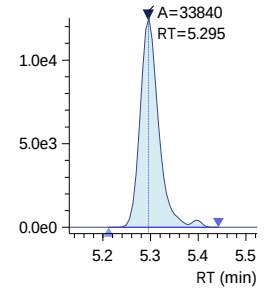
210909_008 (continued)

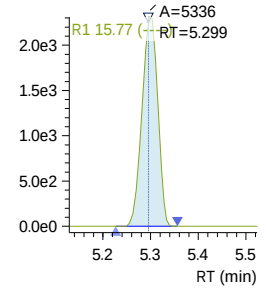
PFUnA
Conc 0.0505
R#1 10.99 (13.40)
Q 563.00>518.90 (-) 1.56e4


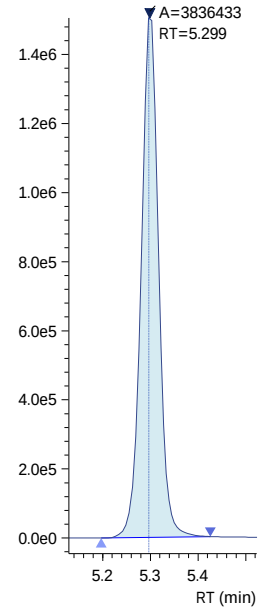
R1 563.00>219.00 (-) 1.96e3


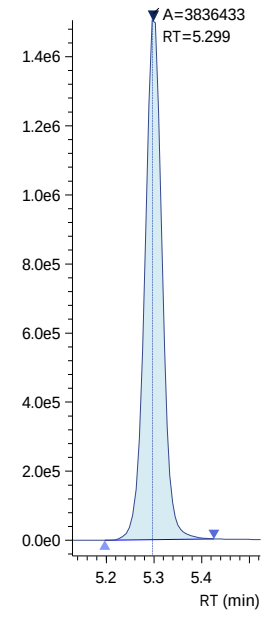
PFUnA-13C
Conc 4.9753
Q 564.80>519.95 (-) 1.36e6


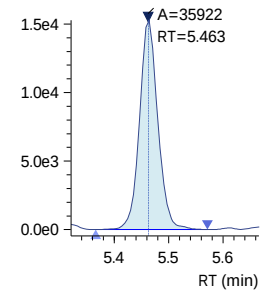
PFUnA-13C_IS
Conc 5.0000
ISTD 564.80>519.95 (-) 1.36e6


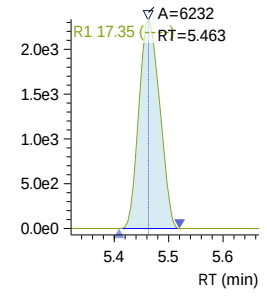
PFDoA
Conc 0.0494
R#1 15.77 (17.67)
Q 613.05>569.00 (-) 1.25e4


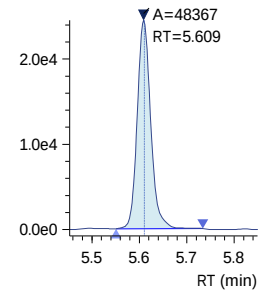
R1 613.05>169.00 (-) 2.31e3


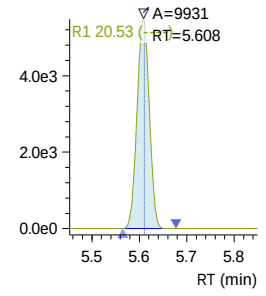
PFDoA-13C
Conc 4.9010
Q 614.80>569.95 (-) 1.51e6


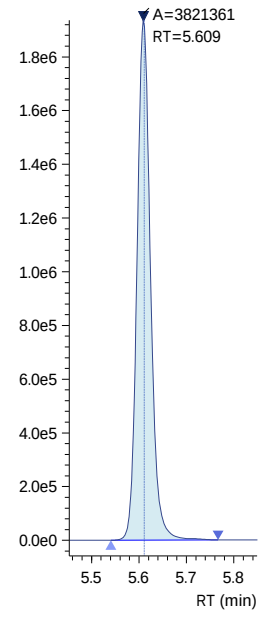
PFDoA-13C_IS
Conc 5.0000
ISTD 614.80>569.95 (-) 1.51e6


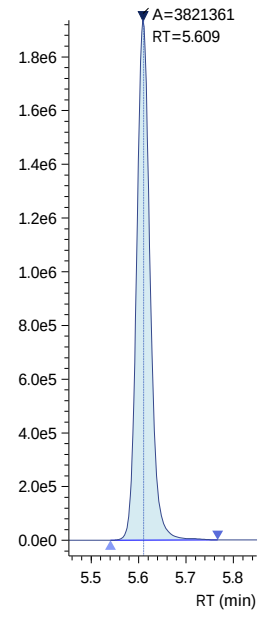
PFTrDA
Conc 0.0460
R#1 17.35 (14.03)
Q 663.00>618.90 (-) 1.53e4


R1 662.90>169.00 (-) 2.34e3


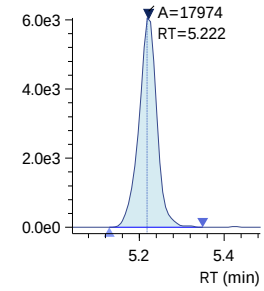
PFTeDA
Conc 0.0572
R#1 20.53 (16.71)
Q 713.00>669.00 (-) 2.45e4


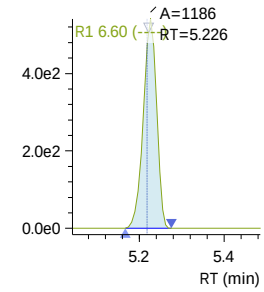
R1 713.00>169.10 (-) 5.48e3


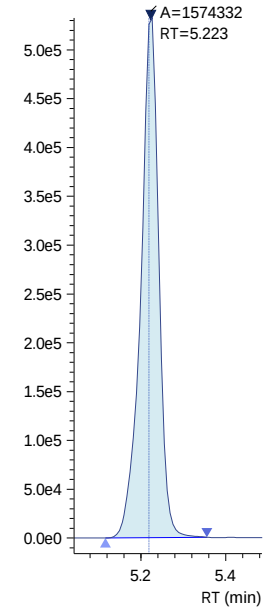
PFTeDA-13C
Conc 4.8654
Q 714.70>669.90 (-) 1.94e6


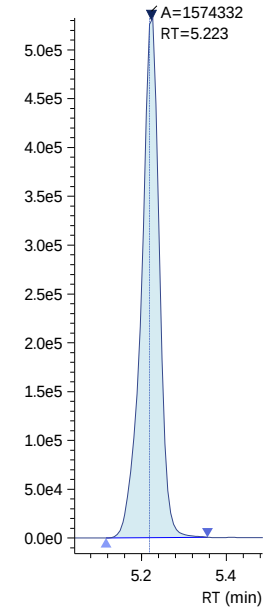
PFTeDA-13C_IS
Conc 5.0000
ISTD 714.70>669.90 (-) 1.94e6


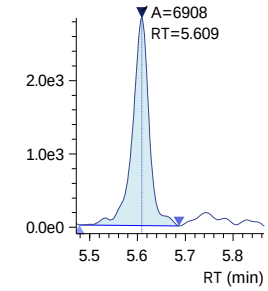
210909_008 (continued)

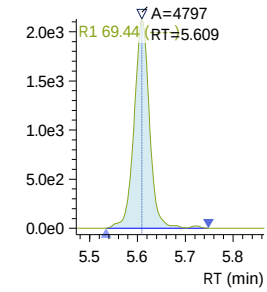
FOSA
Conc 0.0476
R#1 6.60 (4.71)
Q 498.20>78.00 (-) 6.06e3


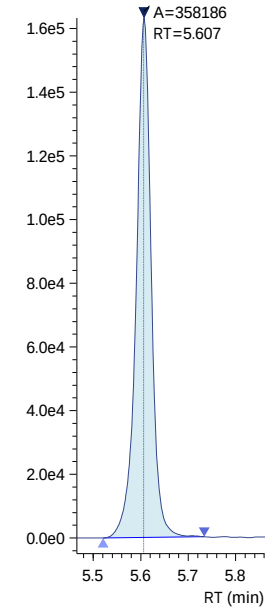
R1 498.20>64.10 (-) 5.41e2


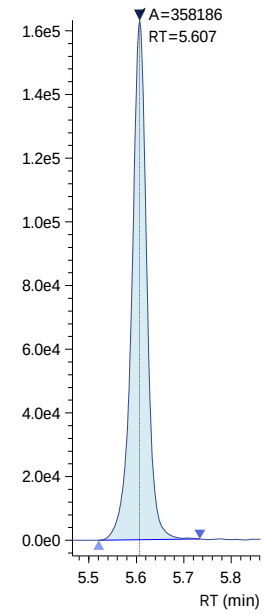
FOSA-13C
Conc 4.8310
Q 506.00>78.05 (-) 5.33e5


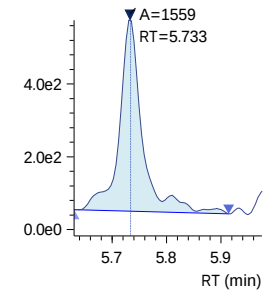
FOSA-13C_IS
Conc 5.0000
ISTD 506.00>78.05 (-) 5.33e5


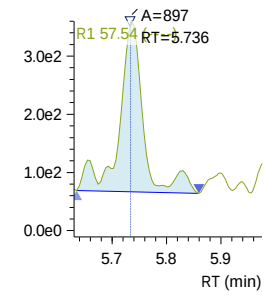
N-MeFOSA
Conc 0.0505
R#1 69.44 (66.26)
Q 512.00>169.10 (-) 2.85e3


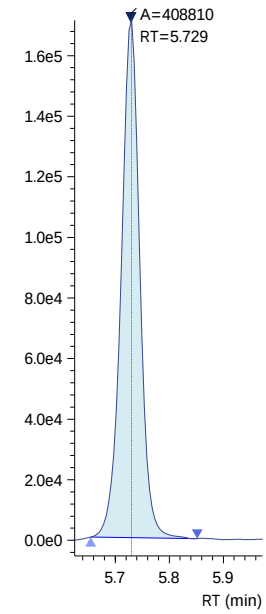
R1 512.00>219.00 (-) 2.13e3


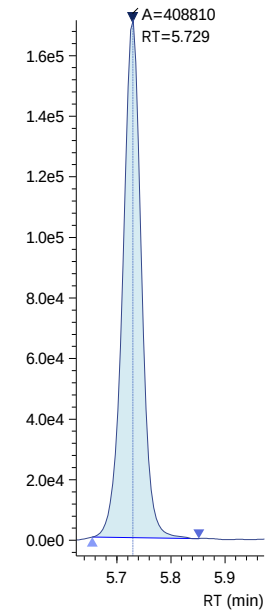
N-MeFOSA-d3
Conc 4.8986
Q 514.90>168.90 (-) 1.63e5


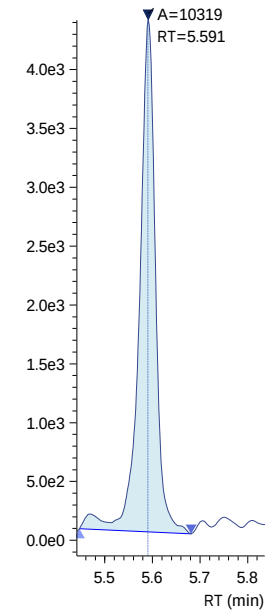
N-MeFOSA-d3_IS
Conc 5.0000
ISTD 514.90>168.90 (-) 1.63e5


N-MeFOSA
Conc 0.0611
R#1 57.54 (64.28)
Q 526.90>169.10 (-) 5.75e2


R1 526.90>219.00 (-) 3.60e2


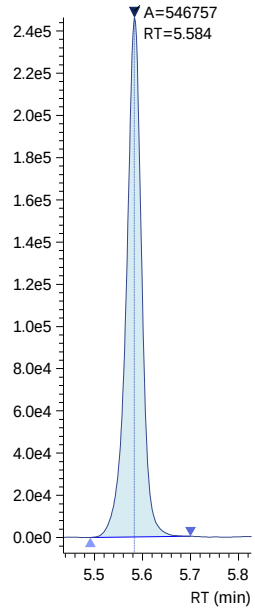
N-EtFOSA-d9
Conc 4.7992
Q 530.90>169.15 (-) 1.72e5


N-EtFOSA-d9_IS
Conc 5.0000
ISTD 530.90>169.15 (-) 1.72e5


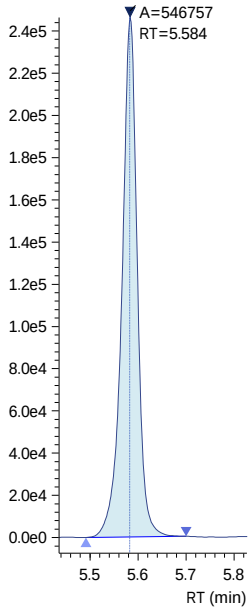
N-MeFOSE
Conc 0.0521
Q 616.00>59.00 (-) 4.42e3


210909_008 (continued)

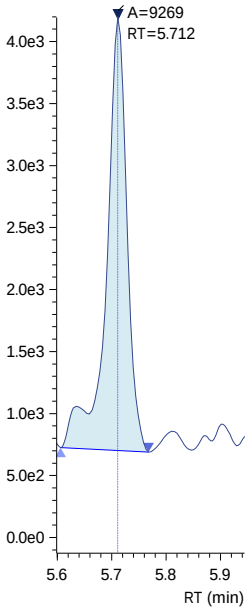
N-MeFOSE-d7
Conc 4.8561
Q 622.70>59.10 (-) 2.46e5



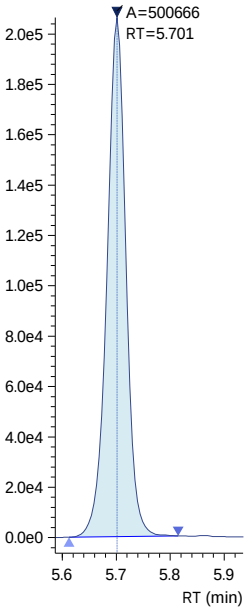
N-MeFOSE-d7_IS
Conc 5.0000
ISTD 622.70>59.10 (-) 2.46e5



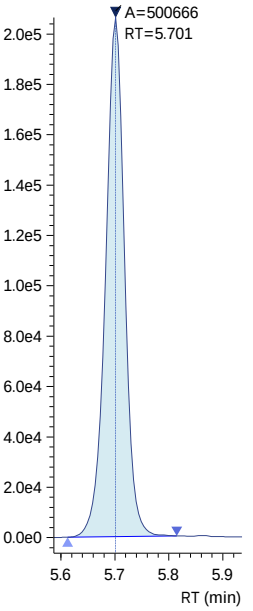
N-EtFOSE
Conc 0.0533
Q 630.00>58.90 (-) 4.19e3



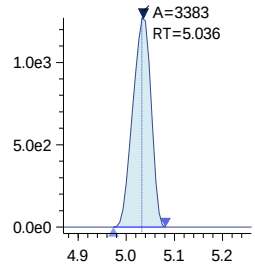
N-EtFOSE-d9
Conc 4.6957
Q 638.70>59.10 (-) 2.07e5



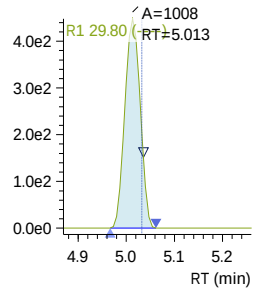
N-EtFOSE-d9_IS
Conc 5.0000
ISTD 638.70>59.10 (-) 2.07e5



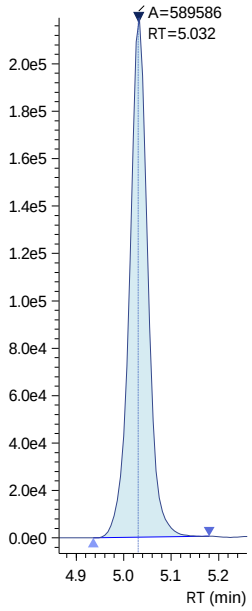
N-MeFOSAA
Conc 0.0439
R#1 29.80 (39.15)
Q 570.20>419.00 (-) 1.27e3



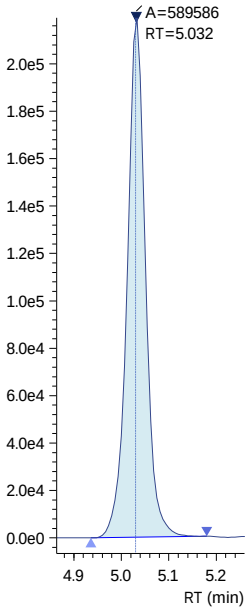
R1 570.20>512.00 (-) 4.48e2



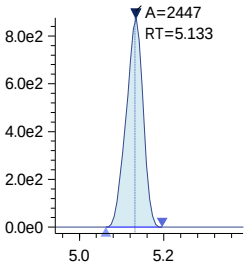
N-MeFOSAA-d3
Conc 4.5581
Q 572.80>419.05 (-) 2.19e5



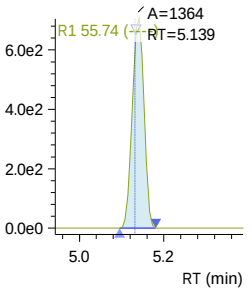
N-MeFOSAA-d3_IS
Conc 5.0000
ISTD 572.80>419.05 (-) 2.19e5



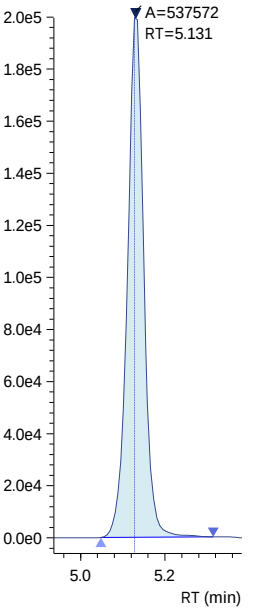
N-EtFOSAA
Conc 0.0558
R#1 55.74 (76.53)
Q 584.20>418.95 (-) 8.76e2



R1 584.20>526.10 (-) 7.05e2

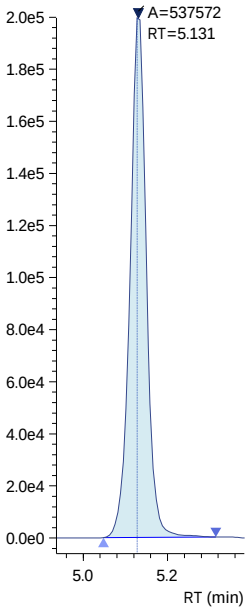


N-EtFOSAA-d5
Conc 4.9148
Q 588.80>419.00 (-) 2.00e5

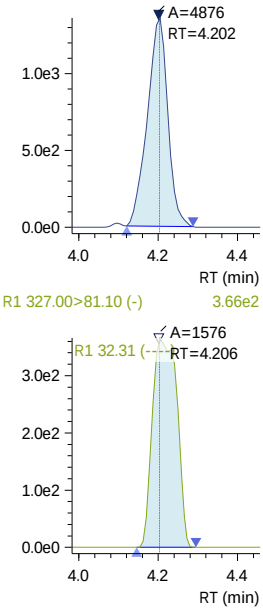


210909_008 (continued)

N-EtFOSAA-d5_IS
Conc 5.0000
ISTD 588.80>419.00 (-) 2.00e5

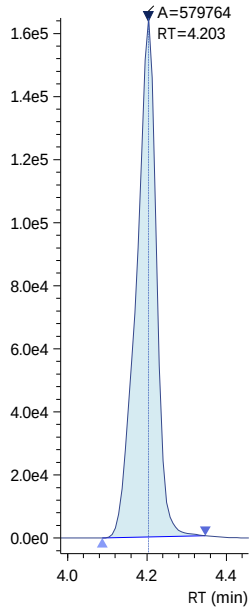


4_2-FTS_1
Conc 0.0466
R#1 32.31 (26.47)
Q 327.00>307.05 (-) 1.36e3

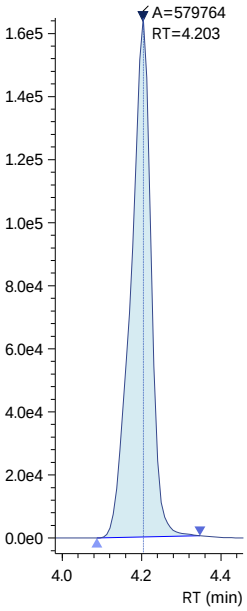


R1 327.00>81.10 (-) 3.66e2

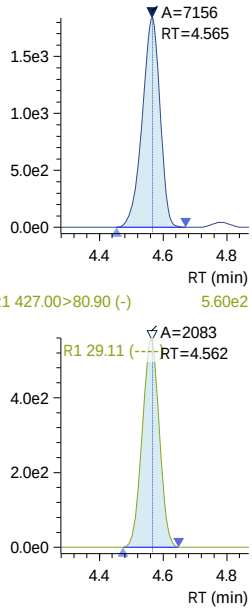
4_2-FTS-13C
Conc 4.7823
Q 328.80>309.05 (-) 1.65e5



4_2-FTS-13C_IS
Conc 5.0000
ISTD 328.80>309.05 (-) 1.65e5

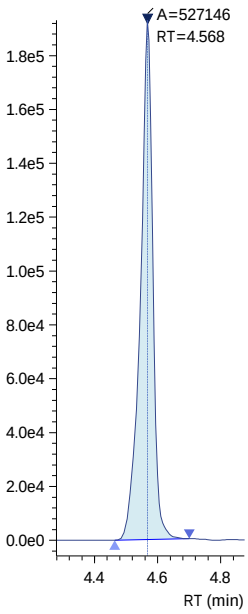


6_2-FTS_1
Conc 0.0518
R#1 29.11 (30.68)
Q 427.00>407.00 (-) 1.84e3

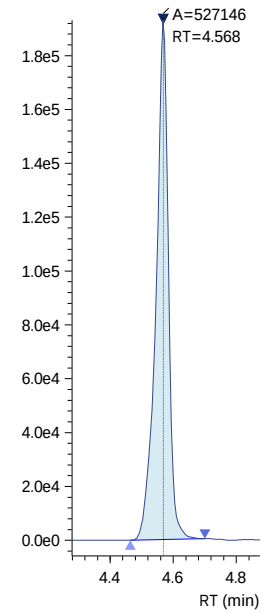


R1 427.00>80.90 (-) 5.60e2

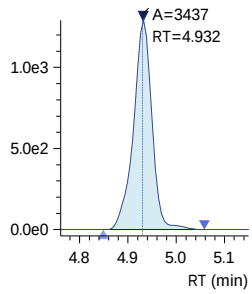
6_2-FTS-13C
Conc 5.1466
Q 428.90>409.00 (-) 1.93e5



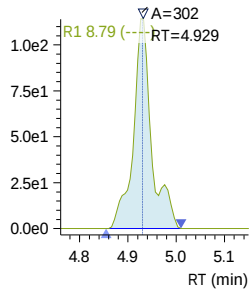
6_2-FTS-13C_IS
Conc 5.0000
ISTD 428.90>409.00 (-) 1.93e5



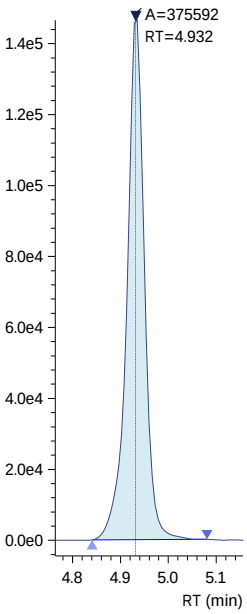
8_2-FTS_1
Conc 0.0479
R#1 8.79 (8.90)
Q 527.10>506.90 (-) 1.29e3



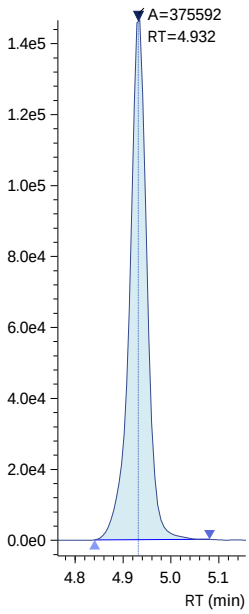
R1 527.20>487.00 (-) 1.14e2



8_2-FTS-13C
Conc 5.0443
Q 528.80>509.00 (-) 1.47e5

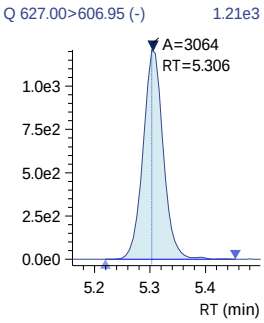


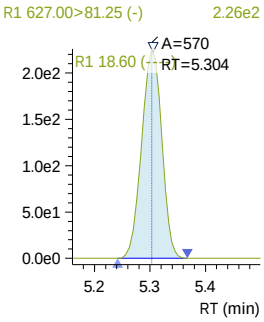
8_2-FTS-13C_IS
Conc 5.0000
ISTD 528.80>509.00 (-) 1.47e5



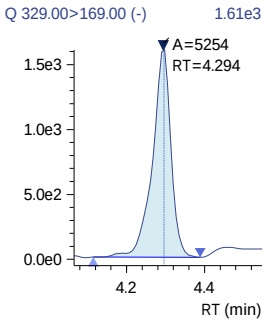
210909_008 (continued)

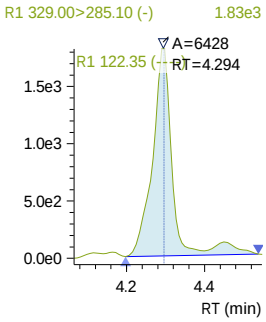
10_2-FtS_1
Conc 0.0526
R#1 18.60 (26.33)



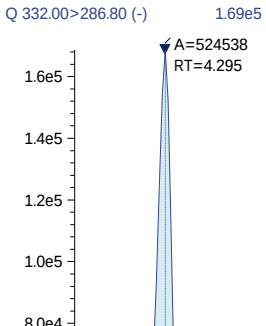


HPFO_DA
Conc 0.0494
R#1 122.35 (103.01)

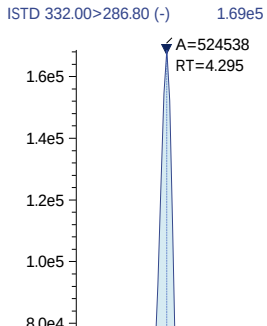




HFPO_DA-13C
Conc 4.7778



HFPO_DA-13C_IS
Conc 5.0000



Insight Report
Retention Time/Signal:Noise Ratio Confirmation
Printed 9/9/2021 16:28:51

210909_009

Sample ID: PFC ICAL @ 0.10ppb
Date Acquired: 9/9/2021 2:05:28 PM
Acquired by: System Administrator
Data File: 210909_009
Vial: 2 | Inj. Volume: 15.0000uL | Tray: 0

Name	m/z	Ref 1 m/z	Found RT	RT Diff	ISTD RT Diff	S/N	Ref 1 S/N	Flag ID
13C7-PFUnDA_IS	570.00>525.00	----	5.117	0.000	----	1888	----	
PFBS_1	299.00>80.00	298.80>99.00	4.025	-0.002	0.000	2590	559	
PFBS-13C	301.80>80.00	----	4.025	-0.008	-1.092	(INF)	----	
PFBS-13C_IS	301.80>80.00	----	4.025	-0.008	----	(INF)	----	
PFPeS	349.00>99.00	349.00>79.95	4.242	-0.003	0.217	72	(INF)	
PFHxS_1	399.00>80.00	399.00>99.00	4.406	-0.004	-0.001	(INF)	167	
PFHxS-18O	402.70>84.05	----	4.407	-0.003	-0.710	(INF)	----	
PFHxS-18O_IS	402.70>84.05	----	4.407	-0.003	----	(INF)	----	
PFHpS_1	449.00>80.15	449.00>99.20	4.568	-0.002	0.161	2898	(INF)	
PFOS_1	499.00>80.00	499.00>99.00	4.739	0.001	0.001	(INF)	(INF)	
PFOS-13C	502.80>80.05	----	4.738	-0.001	-0.379	(INF)	----	
PFOS-13C_IS	502.80>80.05	----	4.738	-0.001	----	(INF)	----	
PFNS	549.00>99.00	549.00>79.95	4.914	-0.002	0.176	253	(INF)	
PFDS_1	599.00>79.90	599.00>99.10	5.096	0.001	0.358	(INF)	308	
PFBA	213.00>169.10	----	3.407	-0.004	0.000	7	----	SN calc error
PFBA-13C	216.90>172.15	----	3.407	-0.003	-1.710	5355	----	
PFBA-13C_IS	216.90>172.15	----	3.407	-0.003	----	5355	----	
PFPeA	263.05>219.10	----	3.972	-0.001	0.000	148	----	
PFPeA-13C	267.90>223.00	----	3.972	-0.001	-1.145	27312	----	
PFPeA-13C_IS	267.90>223.00	----	3.972	-0.001	----	27312	----	
PFHxA	313.00>269.00	313.00>119.10	4.227	-0.002	0.000	215	(INF)	
PFHxA-13C	314.90>270.10	----	4.227	-0.002	-0.890	9795	----	
PFHxA-13C_IS	314.90>270.10	----	4.227	-0.002	----	9795	----	
PFHpA	362.90>319.00	362.90>169.00	4.409	-0.003	0.002	309	(INF)	
PFHpA-13C	366.90>322.10	----	4.407	-0.004	-0.710	42138	----	
PFHpA-13C_IS	366.90>322.10	----	4.407	-0.004	----	42138	----	
PFOA	413.00>369.00	413.00>169.10	4.575	-0.003	-0.001	315	532	
PFOA-13C	416.80>372.05	----	4.576	-0.002	-0.541	53182	----	
PFOA-13C_IS	416.80>372.05	----	4.576	-0.002	----	53182	----	
PFNA	463.00>418.90	463.00>219.00	4.751	0.000	0.001	1016	(INF)	
PFNA-13C	467.80>423.00	----	4.750	-0.001	-0.367	39116	----	
PFNA-13C_IS	467.80>423.00	----	4.750	-0.001	----	39116	----	
PFDA	513.00>468.80	513.00>219.10	4.933	0.000	0.001	1456	(INF)	
PFDA-13C	514.80>469.95	----	4.932	-0.001	-0.185	17332	----	
PFDA-13C_IS	514.80>469.95	----	4.932	-0.001	----	17332	----	
PFUnA	563.00>518.90	563.00>219.00	5.117	-0.002	-0.002	1463	(INF)	
PFUnA-13C	564.80>519.95	----	5.118	0.000	0.001	1694	----	
PFUnA-13C_IS	564.80>519.95	----	5.118	0.000	----	1694	----	
PFDoA	613.05>569.00	613.05>169.00	5.298	0.002	0.000	(INF)	(INF)	
PFDoA-13C	614.80>569.95	----	5.298	0.001	0.181	(INF)	----	
PFDoA-13C_IS	614.80>569.95	----	5.298	0.001	----	(INF)	----	
PFTrDA	663.00>618.90	662.90>169.00	5.461	-0.002	-0.147	(INF)	(INF)	
PFTeDA	713.00>669.00	713.00>169.10	5.608	-0.003	0.000	1187	(INF)	
PFTeDA-13C	714.70>669.90	----	5.608	-0.003	0.491	83837	----	
PFTeDA-13C_IS	714.70>669.90	----	5.608	-0.003	----	73579	----	
FOSA	498.20>78.00	498.20>64.10	5.222	0.004	0.000	(INF)	(INF)	
FOSA-13C	506.00>78.05	----	5.222	0.003	0.105	2926	----	
FOSA-13C_IS	506.00>78.05	----	5.222	0.003	----	2926	----	
N-MeFOSA	512.00>169.10	512.00>219.00	5.607	-0.002	0.001	154	413	
N-MeFOSA-d3	514.90>168.90	----	5.606	0.000	0.489	2299	----	
N-MeFOSA-d3_IS	514.90>168.90	----	5.606	0.000	----	2299	----	

J:\LCMS06\Data\210909_Curve\210909_Curve.DAMLP .

SN - Software-calculated S/N ratio outside criteria due to non-target peaks or drift in noise calculation window. Analyst review of noise levels (excluding non-target peaks) in chromatogram indicates S/N ratio meets criteria.

210909_009 (continued)

(Table continued from previous page)

Name	m/z	Ref 1 m/z	Found RT	RT Diff	ISTD RT Diff	S/N	Ref 1 S/N	Flag ID
N-EtFOSA	526.90>169.10	526.90>219.00	5.734	0.000	0.006	109	27	
N-EtFOSA-d9	530.90>169.15	----	5.728	-0.002	0.611	2138	----	
N-EtFOSA-d9_IS	530.90>169.15	----	5.728	-0.002	----	2138	----	
N-MeFOSE	616.00>59.00	----	5.590	0.000	0.007	170	----	
N-MeFOSE-d7	622.70>59.10	----	5.583	0.000	0.466	5804	----	
N-MeFOSE-d7_IS	622.70>59.10	----	5.583	0.000	----	5804	----	
N-EtFOSE	630.00>58.90	----	5.710	-0.001	0.009	69	----	
N-EtFOSE-d9	638.70>59.10	----	5.701	0.000	0.584	2523	----	
N-EtFOSE-d9_IS	638.70>59.10	----	5.701	0.000	----	2523	----	
N-MeFOSAA	570.20>419.00	570.20>512.00	5.029	-0.004	-0.001	(INF)	(INF)	
N-MeFOSAA-d3	572.80>419.05	----	5.030	0.000	-0.087	(INF)	----	
N-MeFOSAA-d3_IS	572.80>419.05	----	5.030	0.000	----	(INF)	----	
N-EtFOSAA	584.20>418.95	584.20>526.10	5.132	0.000	0.003	(INF)	(INF)	
N-EtFOSAA-d5	588.80>419.00	----	5.129	0.001	0.012	82812	----	
N-EtFOSAA-d5_IS	588.80>419.00	----	5.129	0.001	----	82812	----	
4_2-FTS_1	327.00>307.05	327.00>81.10	4.202	-0.001	0.001	(INF)	(INF)	
4_2-FTS-13C	328.80>309.05	----	4.201	-0.003	-0.916	(INF)	----	
4_2-FTS-13C_IS	328.80>309.05	----	4.201	-0.003	----	(INF)	----	
6_2-FTS_1	427.00>407.00	427.00>80.90	4.562	-0.005	-0.004	(INF)	(INF)	
6_2-FTS-13C	428.90>409.00	----	4.566	-0.002	-0.551	(INF)	----	
6_2-FTS-13C_IS	428.90>409.00	----	4.566	-0.002	----	(INF)	----	
8_2-FTS_1	527.10>506.90	527.20>487.00	4.930	0.000	-0.001	(INF)	(INF)	
8_2-FTS-13C	528.80>509.00	----	4.931	-0.001	-0.186	(INF)	----	
8_2-FTS-13C_IS	528.80>509.00	----	4.931	-0.001	----	(INF)	----	
10_2-FtS_1	627.00>606.95	627.00>81.25	5.304	0.001	0.373	(INF)	(INF)	
HPFO_DA	329.00>169.00	329.00>285.10	4.294	-0.002	0.000	1668	394	
HFPO_DA-13C	332.00>286.80	----	4.294	-0.002	-0.823	84533	----	
HFPO_DA-13C_IS	332.00>286.80	----	4.294	-0.002	----	84533	----	

Flag ID key: SN: S/N

SN - Software-calculated S/N ratio outside criteria due to non-target peaks or drift in noise calculation window. Analyst review of noise levels (excluding non-target peaks) in chromatogram indicates S/N ratio meets criteria.

Insight Report
Ion Ratio Confirmation
Printed 9/9/2021 16:29:39

210909_009

Sample ID: PFC ICAL @ 0.10ppb
Date Acquired: 9/9/2021 2:05:28 PM
Acquired by: System Administrator
Data File: 210909_009
Vial: 2 | Inj. Volume: 15.0000uL | Tray: 0

Name	m/z	Ref 1 m/z	Area	Ref 1 Measured	Ref 1 Actual Ratio	Ref 1 Set Ratio	Comment 1	Flag ID
13C7-PFUnDA_IS	570.00>525.00	----	5335306	----	----	----		
PFBS_1	299.00>80.00	298.80>99.00	16813	8214	48.86	49.34	24.67-74.01	
PFBS-13C	301.80>80.00	----	553660	----	----	----	0-0	
PFBS-13C_IS	301.80>80.00	----	553660	----	----	----	0-0	
PFPeS	349.00>99.00	349.00>79.95	6766	10323	152.57	151.30	75.65 -226.95	
PFHxS_1	399.00>80.00	399.00>99.00	13419	9446	70.39	62.92	31.46-94.38	
PFHxS-18O	402.70>84.05	----	408575	----	----	----	0-0	
PFHxS-18O_IS	402.70>84.05	----	408575	----	----	----	0-0	
PFHpS_1	449.00>80.15	449.00>99.20	12840	5113	39.82	40.53	20.26-60.79	
PFOS_1	499.00>80.00	499.00>99.00	9099	6420	70.56	73.81	36.91 -110.72	
PFOS-13C	502.80>80.05	----	540640	----	----	----	0-0	
PFOS-13C_IS	502.80>80.05	----	540640	----	----	----	0-0	
PFNS	549.00>99.00	549.00>79.95	6474	11118	171.73	160.25	80.13 -240.38	
PFDS_1	599.00>79.90	599.00>99.10	12878	8638	67.08	72.12	36.06 -108.19	
PFBA	213.00>169.10	----	32972	----	----	----		SN calc error
PFBA-13C	216.90>172.15	----	1942697	----	----	----		
PFBA-13C_IS	216.90>172.15	----	1942697	----	----	----		
PFPeA	263.05>219.10	----	94341	----	----	----		
PFPeA-13C	267.90>223.00	----	1118333	----	----	----	0-0	
PFPeA-13C_IS	267.90>223.00	----	1118333	----	----	----	0-0	
PFHxA	313.00>269.00	313.00>119.10	87778	3667	4.18	4.40	2.2-6.61	
PFHxA-13C	314.90>270.10	----	3233337	----	----	----	0-0	
PFHxA-13C_IS	314.90>270.10	----	3233337	----	----	----	0-0	
PFHpA	362.90>319.00	362.90>169.00	69372	15792	22.76	24.40	12.2-36.6	
PFHpA-13C	366.90>322.10	----	2994532	----	----	----	0-0	
PFHpA-13C_IS	366.90>322.10	----	2994532	----	----	----	0-0	
PFOA	413.00>369.00	413.00>169.10	121788	37433	30.74	31.89	15.94-47.83	
PFOA-13C	416.80>372.05	----	4092344	----	----	----	0-0	
PFOA-13C_IS	416.80>372.05	----	4092344	----	----	----	0-0	
PFNA	463.00>418.90	463.00>219.00	74039	17027	23.00	23.25	11.63-34.88	
PFNA-13C	467.80>423.00	----	3375537	----	----	----	0-0	
PFNA-13C_IS	467.80>423.00	----	3375537	----	----	----	0-0	
PFDA	513.00>468.80	513.00>219.10	67541	11037	16.34	20.24	10.12-30.36	
PFDA-13C	514.80>469.95	----	2448408	----	----	----	0-0	
PFDA-13C_IS	514.80>469.95	----	2448408	----	----	----	0-0	
PFUnA	563.00>518.90	563.00>219.00	82136	9450	11.51	12.46	6.23-18.69	
PFUnA-13C	564.80>519.95	----	3636936	----	----	----	0-0	
PFUnA-13C_IS	564.80>519.95	----	3636936	----	----	----	0-0	
PFDoA	613.05>569.00	613.05>169.00	70201	9153	13.04	16.50	8.25-24.76	
PFDoA-13C	614.80>569.95	----	3928910	----	----	----	0-0	
PFDoA-13C_IS	614.80>569.95	----	3928910	----	----	----	0-0	
PFTrDA	663.00>618.90	662.90>169.00	83097	9574	11.52	15.29	7.65-22.94	
PFTeDA	713.00>669.00	713.00>169.10	87206	15187	17.42	17.47	8.73-26.2	
PFTeDA-13C	714.70>669.90	----	4080896	----	----	----	0-0	
PFTeDA-13C_IS	714.70>669.90	----	4080896	----	----	----	0-0	
FOSA	498.20>78.00	498.20>64.10	40973	2016	4.92	5.19	2.6-7.79	
FOSA-13C	506.00>78.05	----	1663573	----	----	----	0-0	

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Comment 1 field specifies acceptance range for Ref 1 ratio.
IRr - Ion ratio outside criteria. Exceedances for results above the MDL to be "K" flagged in the analytical report.

Insight Report
Ion Ratio Confirmation
Printed 9/9/2021 16:29:39

210909_009 (continued)

(Table continued from previous page)

Name	m/z	Ref 1 m/z	Area	Ref 1 Measured	Ref 1 Actual Ratio	Ref 1 Set Ratio	Comment 1	Flag ID
FOSA-13C_IS	506.00>78.05	----	1663573	----	----	----	0-0	
N-MeFOSA	512.00>169.10	512.00>219.00	14400	10462	72.65	69.94	34.97 -104.91	
N-MeFOSA-d3	514.90>168.90	----	363596	----	----	----	0-0	
N-MeFOSA-d3_IS	514.90>168.90	----	363596	----	----	----	0-0	
N-EtFOSA	526.90>169.10	526.90>219.00	2538	1594	62.81	66.52	33.26-99.77	
N-EtFOSA-d9	530.90>169.15	----	416276	----	----	----	0-0	
N-EtFOSA-d9_IS	530.90>169.15	----	416276	----	----	----	0-0	
N-MeFOSE	616.00>59.00	----	19814	----	----	----		
N-MeFOSE-d7	622.70>59.10	----	542143	----	----	----		
N-MeFOSE-d7_IS	622.70>59.10	----	542143	----	----	----		
N-EtFOSE	630.00>58.90	----	18446	----	----	----		
N-EtFOSE-d9	638.70>59.10	----	531571	----	----	----	0-0	
N-EtFOSE-d9_IS	638.70>59.10	----	531571	----	----	----	0-0	
N-MeFOSAA	570.20>419.00	570.20>512.00	12005	3495	29.11	39.56	19.78-59.34	
N-MeFOSAA-d3	572.80>419.05	----	644995	----	----	----	0-0	
N-MeFOSAA-d3_IS	572.80>419.05	----	644995	----	----	----	0-0	
N-EtFOSAA	584.20>418.95	584.20>526.10	6300	6097	96.78	84.54	42.27 -126.81	
N-EtFOSAA-d5	588.80>419.00	----	547958	----	----	----	0-0	
N-EtFOSAA-d5_IS	588.80>419.00	----	547958	----	----	----	0-0	
4_2-FTS_1	327.00>307.05	327.00>81.10	9223	4716	51.13	34.12	17.06-51.19	
4_2-FTS-13C	328.80>309.05	----	574363	----	----	----	0-0	
4_2-FTS-13C_IS	328.80>309.05	----	574363	----	----	----	0-0	
6_2-FTS_1	427.00>407.00	427.00>80.90	13207	6693	50.68	37.36	18.68-56.04	
6_2-FTS-13C	428.90>409.00	----	526877	----	----	----	0-0	
6_2-FTS-13C_IS	428.90>409.00	----	526877	----	----	----	0-0	
8_2-FTS_1	527.10>506.90	527.20>487.00	7295	788	10.80	10.63	5.32-15.95	
8_2-FTS-13C	528.80>509.00	----	390341	----	----	----	0-0	
8_2-FTS-13C_IS	528.80>509.00	----	390341	----	----	----	0-0	
10_2-FtS_1	627.00>606.95	627.00>81.25	5258	1270	24.15	21.61	10.8-32.41	
HPFO_DA	329.00>169.00	329.00>285.10	10930	10929	99.99	106.46	53.23 -159.68	
HFPO_DA-13C	332.00>286.80	----	533667	----	----	----		
HFPO_DA-13C_IS	332.00>286.80	----	533667	----	----	----		

Flag ID key: SN: S/N

J:\LCMS06\Data\210909_Curve\210909_Curve.DAMLP .

Comment 1 field specifies acceptance range for Ref 1 ratio.
IRr - Ion ratio outside criteria. Exceedances for results above the MDL to be "K" flagged in the analytical report.

Insight Report
Quantitation/Integration
Printed 9/9/2021 16:33:46

210909_009

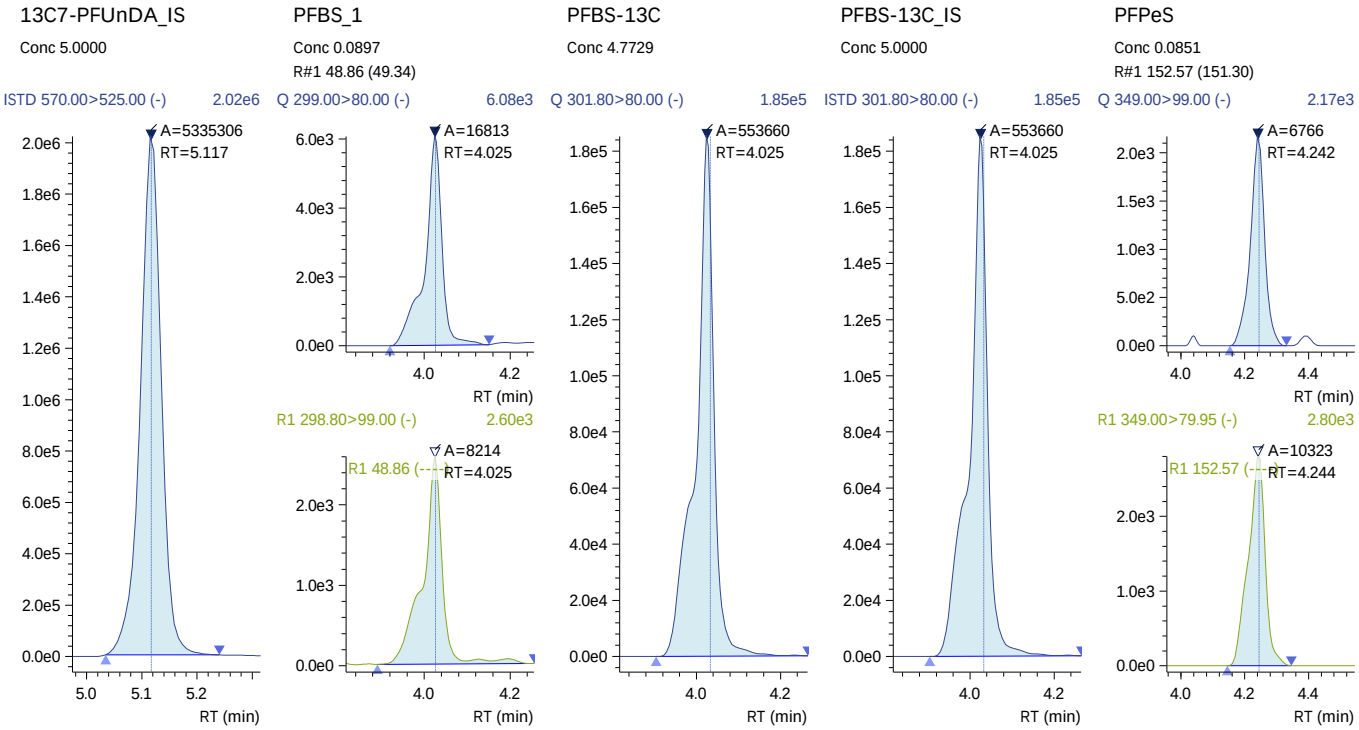
Sample ID: PFC ICAL @ 0.10ppb
Date Acquired: 9/9/2021 2:05:28 PM
Acquired by: System Administrator
Data File: 210909_009
Vial: 2 | Inj. Volume: 15.0000uL | Tray: 0

Name	Mode ID	Found RT	Area	ISTD Area	ISTD Name	Std. Conc.	Conc.	Unit
13C7-PFUnDA_IS	Auto	5.117	5335306	5335306	----	5.0000	5.0000	ng/mL
PFBS_1	Auto	4.025	16813	553660	PFBS-13C_IS	0.0887	0.0897	ng/mL
PFBS-13C	Auto	4.025	553660	5335306	13C7-PFUnDA_IS	5.0000	4.7729	ng/mL
PFBS-13C_IS	Auto	4.025	553660	553660	----	5.0000	5.0000	ng/mL
PFPeS	Auto	4.242	6766	553660	PFBS-13C_IS	0.0941	0.0851	ng/mL
PFHxS_1	MI R1	4.406	13419	408575	PFHxS-18O_IS	0.0913	0.0810	ng/mL
PFHxS-18O	Auto	4.407	408575	5335306	13C7-PFUnDA_IS	5.0000	4.9381	ng/mL
PFHxS-18O_IS	Auto	4.407	408575	408575	----	5.0000	5.0000	ng/mL
PFHpS_1	M	4.568	12840	408575	PFHxS-18O_IS	0.0953	0.0915	ng/mL
PFOS_1	Auto	4.739	9099	540640	PFOS-13C_IS	0.0929	0.0899	ng/mL
PFOS-13C	Auto	4.738	540640	5335306	13C7-PFUnDA_IS	5.0000	4.7816	ng/mL
PFOS-13C_IS	Auto	4.738	540640	540640	----	5.0000	5.0000	ng/mL
PFNS	M	4.914	6474	540640	PFOS-13C_IS	0.0962	0.0881	ng/mL
PFDS_1	MI R1	5.096	12878	540640	PFOS-13C_IS	0.0965	0.1012	ng/mL
PFBA	M	3.407	32972	1942697	PFBA-13C_IS	0.1000	0.1060	ng/mL
PFBA-13C	Auto	3.407	1942697	5335306	13C7-PFUnDA_IS	5.0000	4.6681	ng/mL
PFBA-13C_IS	Auto	3.407	1942697	1942697	----	5.0000	5.0000	ng/mL
PFPeA	Auto	3.972	94341	1118333	PFPeA-13C_IS	0.1000	0.1040	ng/mL
PFPeA-13C	Auto	3.972	1118333	5335306	13C7-PFUnDA_IS	5.0000	4.7020	ng/mL
PFPeA-13C_IS	Auto	3.972	1118333	1118333	----	5.0000	5.0000	ng/mL
PFHxA	Auto	4.227	87778	3233337	PFHxA-13C_IS	0.1000	0.1039	ng/mL
PFHxA-13C	Auto	4.227	3233337	5335306	13C7-PFUnDA_IS	5.0000	4.7909	ng/mL
PFHxA-13C_IS	Auto	4.227	3233337	3233337	----	5.0000	5.0000	ng/mL
PFHpA	Auto	4.409	69372	2994532	PFHpA-13C_IS	0.1000	0.0960	ng/mL
PFHpA-13C	Auto	4.407	2994532	5335306	13C7-PFUnDA_IS	5.0000	4.8927	ng/mL
PFHpA-13C_IS	Auto	4.407	2994532	2994532	----	5.0000	5.0000	ng/mL
PFOA	Auto	4.575	121788	4092344	PFOA-13C_IS	0.1000	0.1085	ng/mL
PFOA-13C	Auto	4.576	4092344	5335306	13C7-PFUnDA_IS	5.0000	5.0014	ng/mL
PFOA-13C_IS	Auto	4.576	4092344	4092344	----	5.0000	5.0000	ng/mL
PFNA	Auto	4.751	74039	3375537	PFNA-13C_IS	0.1000	0.1061	ng/mL
PFNA-13C	Auto	4.750	3375537	5335306	13C7-PFUnDA_IS	5.0000	4.7883	ng/mL
PFNA-13C_IS	Auto	4.750	3375537	3375537	----	5.0000	5.0000	ng/mL
PFDA	Auto	4.933	67541	2448408	PFDA-13C_IS	0.1000	0.0979	ng/mL
PFDA-13C	Auto	4.932	2448408	5335306	13C7-PFUnDA_IS	5.0000	4.9954	ng/mL
PFDA-13C_IS	Auto	4.932	2448408	2448408	----	5.0000	5.0000	ng/mL
PFUnA	Auto	5.117	82136	3636936	PFUnA-13C_IS	0.1000	0.1020	ng/mL
PFUnA-13C	Auto	5.118	3636936	5335306	13C7-PFUnDA_IS	5.0000	4.9213	ng/mL
PFUnA-13C_IS	Auto	5.118	3636936	3636936	----	5.0000	5.0000	ng/mL
PFDoA	Auto	5.298	70201	3928910	PFDoA-13C_IS	0.1000	0.1003	ng/mL
PFDoA-13C	Auto	5.298	3928910	5335306	13C7-PFUnDA_IS	5.0000	4.8198	ng/mL
PFDoA-13C_IS	Auto	5.298	3928910	3928910	----	5.0000	5.0000	ng/mL
PFTrDA	Auto	5.461	83097	4080896	PFTeDA-13C_IS	0.1000	0.0997	ng/mL
PFTeDA	Auto	5.608	87206	4080896	PFTeDA-13C_IS	0.1000	0.0965	ng/mL
PFTeDA-13C	Auto	5.608	4080896	5335306	13C7-PFUnDA_IS	5.0000	4.9895	ng/mL
PFTeDA-13C_IS	Auto	5.608	4080896	4080896	----	5.0000	5.0000	ng/mL
FOSA	Auto	5.222	40973	1663573	FOSA-13C_IS	0.1000	0.1027	ng/mL
FOSA-13C	Auto	5.222	1663573	5335306	13C7-PFUnDA_IS	5.0000	4.9022	ng/mL
FOSA-13C_IS	Auto	5.222	1663573	1663573	----	5.0000	5.0000	ng/mL
N-MeFOSA	M	5.607	14400	363596	N-MeFOSA-d3_IS	0.1000	0.1040	ng/mL
N-MeFOSA-d3	Auto	5.606	363596	5335306	13C7-PFUnDA_IS	5.0000	4.7752	ng/mL
N-MeFOSA-d3_IS	Auto	5.606	363596	363596	----	5.0000	5.0000	ng/mL
N-EtFOSA	Auto	5.734	2538	416276	N-EtFOSA-d9_IS	0.1000	0.1006	ng/mL
N-EtFOSA-d9	Auto	5.728	416276	5335306	13C7-PFUnDA_IS	5.0000	4.6928	ng/mL
N-EtFOSA-d9_IS	Auto	5.728	416276	416276	----	5.0000	5.0000	ng/mL

210909_009 (continued)

(Table continued from previous page)

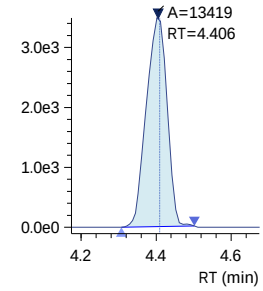
Name	Mode ID	Found RT	Area	ISTD Area	ISTD Name	Std. Conc.	Conc.	Unit
N-MeFOSE	M	5.590	19814	542143	N-MeFOSE-d7_IS	0.1000	0.1017	ng/mL
N-MeFOSE-d7	Auto	5.583	542143	5335306	13C7-PFUnDA_IS	5.0000	4.6239	ng/mL
N-MeFOSE-d7_IS	Auto	5.583	542143	542143	----	5.0000	5.0000	ng/mL
N-EtFOSE	Auto	5.710	18446	531571	N-EtFOSE-d9_IS	0.1000	0.1001	ng/mL
N-EtFOSE-d9	Auto	5.701	531571	5335306	13C7-PFUnDA_IS	5.0000	4.7876	ng/mL
N-EtFOSE-d9_IS	Auto	5.701	531571	531571	----	5.0000	5.0000	ng/mL
N-MeFOSAA	Auto	5.029	12005	644995	N-MeFOSAA-d3_IS	0.1000	0.1208	ng/mL
N-MeFOSAA-d3	Auto	5.030	644995	5335306	13C7-PFUnDA_IS	5.0000	4.7884	ng/mL
N-MeFOSAA-d3_IS	Auto	5.030	644995	644995	----	5.0000	5.0000	ng/mL
N-EtFOSAA	Auto	5.132	6300	547958	N-EtFOSAA-d5_IS	0.1000	0.1014	ng/mL
N-EtFOSAA-d5	Auto	5.129	547958	5335306	13C7-PFUnDA_IS	5.0000	4.8108	ng/mL
N-EtFOSAA-d5_IS	Auto	5.129	547958	547958	----	5.0000	5.0000	ng/mL
4_2-FTS_1	MI R1	4.202	9223	574363	4_2-FTS-13C_IS	0.0937	0.0889	ng/mL
4_2-FTS-13C	Auto	4.201	574363	5335306	13C7-PFUnDA_IS	5.0000	4.5496	ng/mL
4_2-FTS-13C_IS	Auto	4.201	574363	574363	----	5.0000	5.0000	ng/mL
6_2-FTS_1	M	4.562	13207	526877	6_2-FTS-13C_IS	0.0951	0.0961	ng/mL
6_2-FTS-13C	Auto	4.566	526877	5335306	13C7-PFUnDA_IS	5.0000	4.9397	ng/mL
6_2-FTS-13C_IS	Auto	4.566	526877	526877	----	5.0000	5.0000	ng/mL
8_2-FTS_1	Auto	4.930	7295	390341	8_2-FTS-13C_IS	0.0960	0.0978	ng/mL
8_2-FTS-13C	Auto	4.931	390341	5335306	13C7-PFUnDA_IS	5.0000	5.0342	ng/mL
8_2-FTS-13C_IS	Auto	4.931	390341	390341	----	5.0000	5.0000	ng/mL
10_2-FtS_1	MI R1	5.304	5258	390341	8_2-FTS-13C_IS	0.0966	0.0868	ng/mL
HPFO_DA	M	4.294	10930	533667	HFPO_DA-13C_IS	0.1000	0.1024	ng/mL
HFPO_DA-13C	Auto	4.294	533667	5335306	13C7-PFUnDA_IS	5.0000	4.6679	ng/mL
HFPO_DA-13C_IS	Auto	4.294	533667	533667	----	5.0000	5.0000	ng/mL



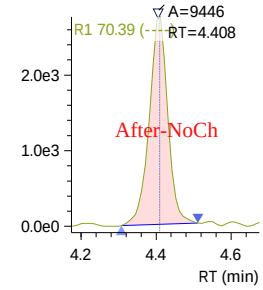
Insight Report
Quantitation/Integration
Printed 9/9/2021 16:33:46

210909_009 (continued)

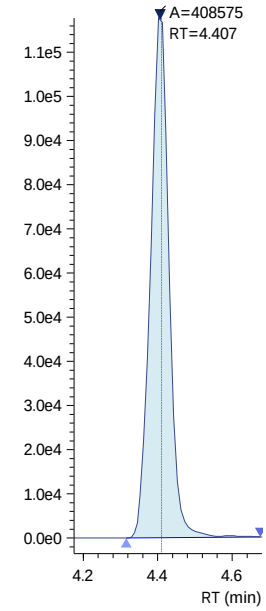
PFHxS_1
Conc 0.0810
R#1 70.39 (62.92)
Q 399.00>80.00 (-) 3.49e3



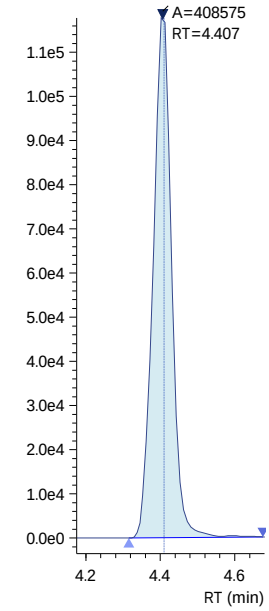
R1 399.00>99.00 (-) 2.77e3



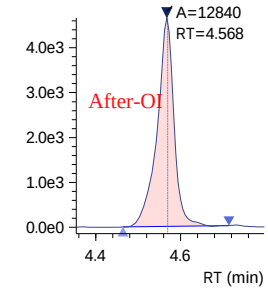
PFHxS-18O
Conc 4.9381
Q 402.70>84.05 (-) 1.18e5



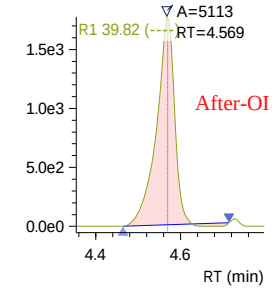
PFHxS-18O_IS
Conc 5.0000
ISTD 402.70>84.05 (-) 1.18e5



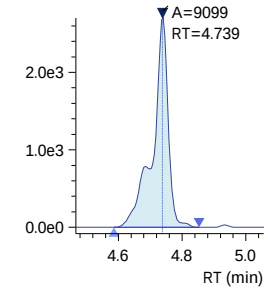
PFHpS_1
Conc 0.0915
R#1 39.82 (40.53)
Q 449.00>80.15 (-) 4.66e3



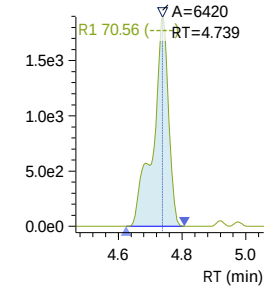
R1 449.00>99.20 (-) 1.78e3



PFOS_1
Conc 0.0899
R#1 70.56 (73.81)
Q 499.00>80.00 (-) 2.70e3



R1 499.00>99.00 (-) 1.90e3



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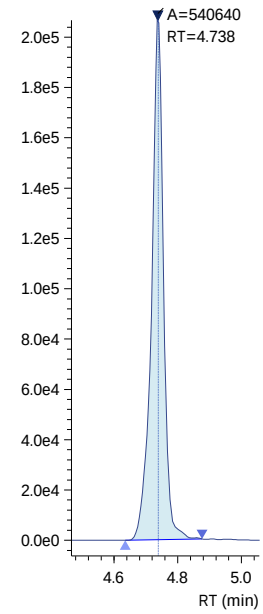
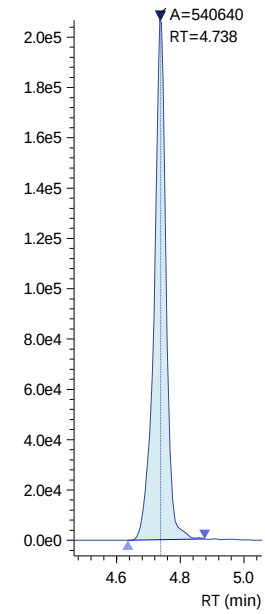
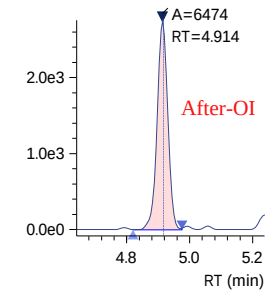
Conc 4.7816
Q 502.80>80.05 (-) 2.07e5



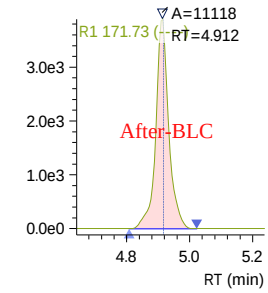
PFOS-13C_IS
Conc 5.0000
ISTD 502.80>80.05 (-) 2.07e5



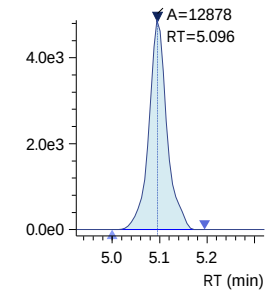
PFNS
Conc 0.0881
R#1 171.73 (160.25)
Q 549.00>99.00 (-) 2.76e3



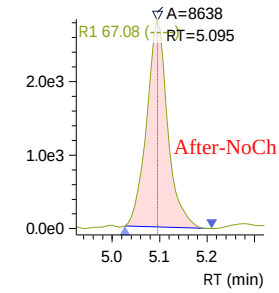
R1 549.00>79.95 (-) 3.89e3



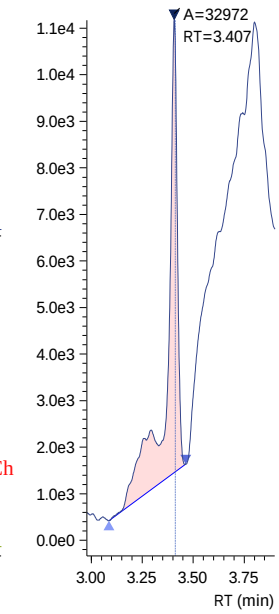
PFDS_1
Conc 0.1012
R#1 67.08 (72.12)
Q 599.00>79.90 (-) 4.87e3



R1 599.00>99.10 (-) 2.85e3



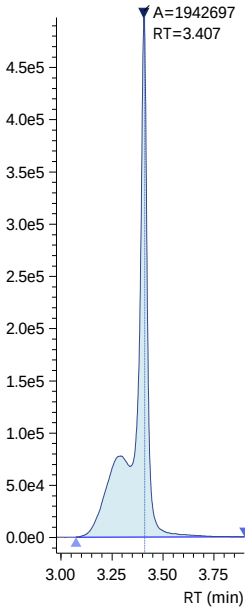
PFBA
Conc 0.1060
Q 213.00>169.10 (-) 1.12e4



After-MP

210909_009 (continued)

PFBA-13C
Conc 4.6681
Q 216.90>172.15 (-) 4.98e5



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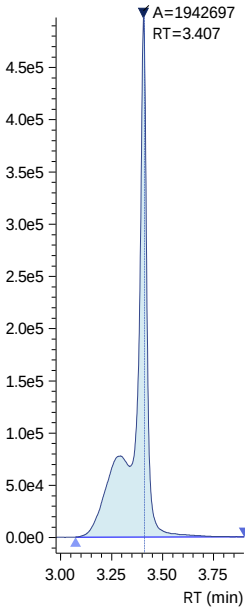
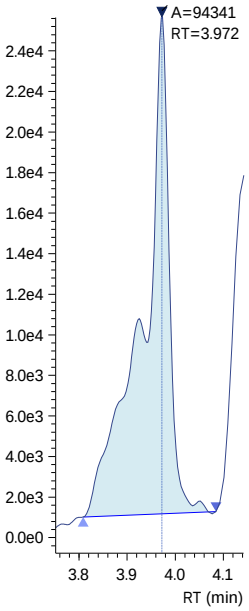
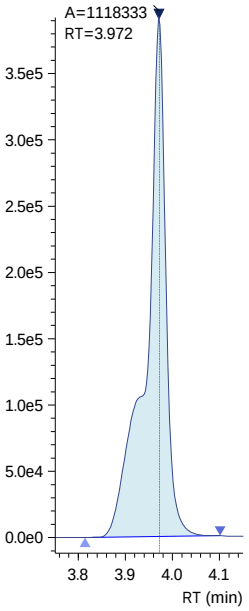
ISTD 216.90>172.15 (-) 4.98e5



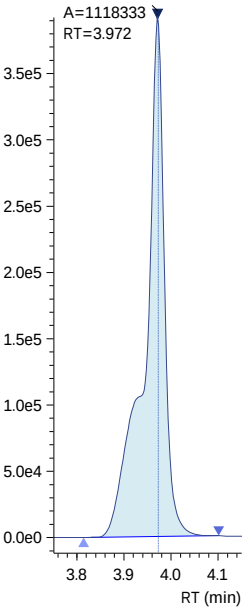
PFPeA
Conc 0.1040
Q 263.05>219.10 (-) 2.56e4



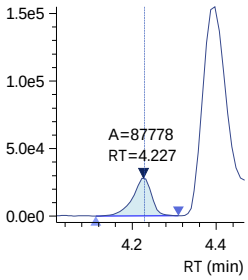
PFPeA-13C
Conc 4.7020
Q 267.90>223.00 (-) 3.92e5



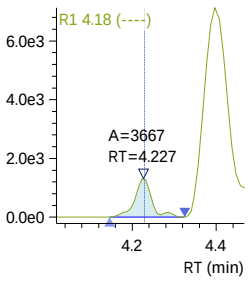
PFPeA-13C_IS
Conc 5.0000
ISTD 267.90>223.00 (-) 3.92e5



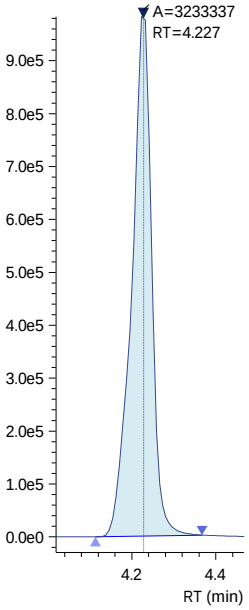
PFHxA
Conc 0.1039
R#1 4.18 (4.40)
Q 313.00>269.00 (-) 1.55e5



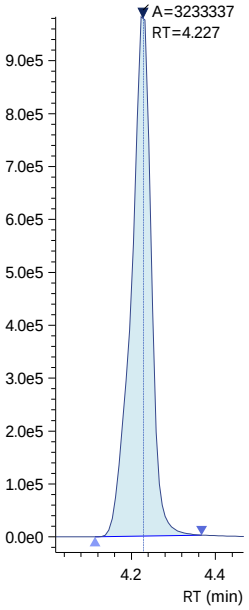
R1 313.00>119.10 (-) 7.13e3



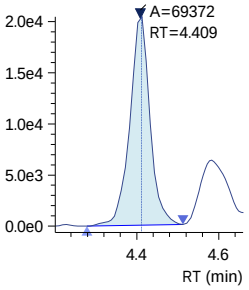
PFHxA-13C
Conc 4.7909
Q 314.90>270.10 (-) 9.83e5



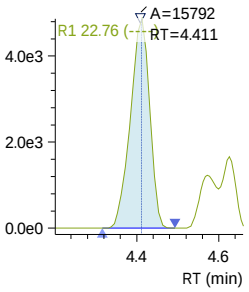
PFHxA-13C_IS
Conc 5.0000
ISTD 314.90>270.10 (-) 9.83e5



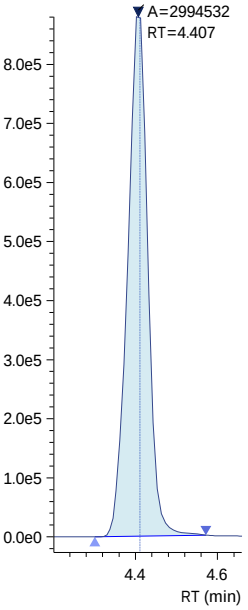
PFHpA
Conc 0.0960
R#1 22.76 (24.40)
Q 362.90>319.00 (-) 2.05e4



R1 362.90>169.00 (-) 4.87e3

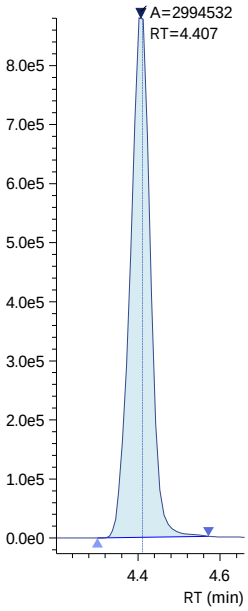


PFHpA-13C
Conc 4.8927
Q 366.90>322.10 (-) 8.81e5

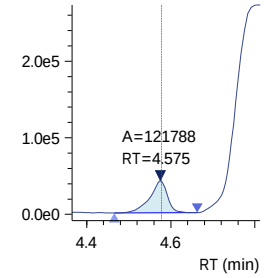


210909_009 (continued)

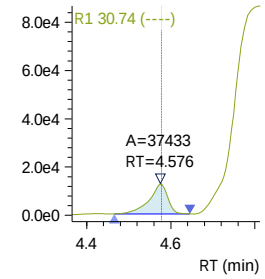
PFHpA-13C_IS
Conc 5.0000
ISTD 366.90>322.10 (-) 8.81e5



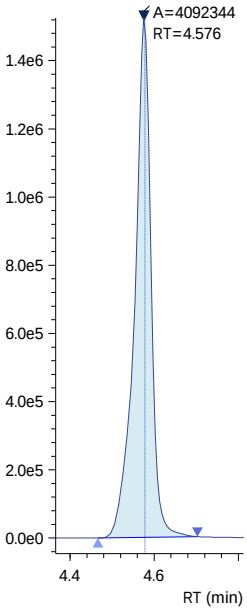
PFOA
Conc 0.1085
R#1 30.74 (31.89)
Q 413.00>369.00 (-) 2.74e5



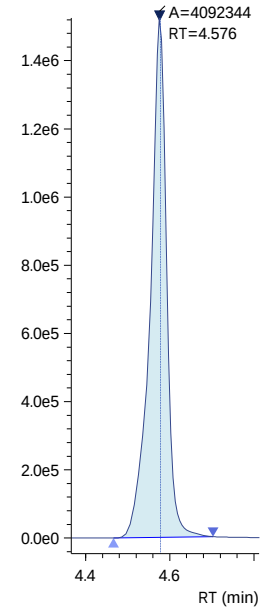
R1 413.00>169.10 (-) 8.67e4



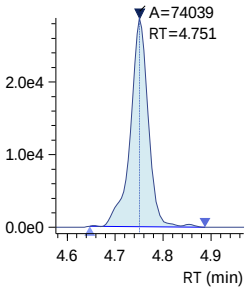
PFOA-13C
Conc 5.0014
Q 416.80>372.05 (-) 1.53e6



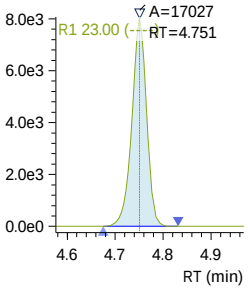
PFOA-13C_IS
Conc 5.0000
ISTD 416.80>372.05 (-) 1.53e6



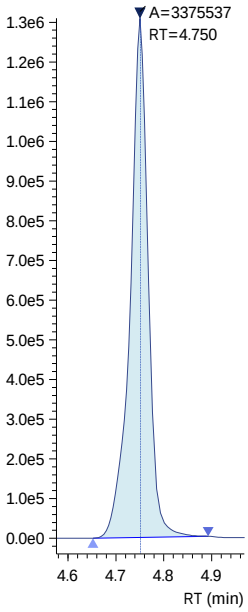
PFNA
Conc 0.1061
R#1 23.00 (23.25)
Q 463.00>418.90 (-) 2.88e4



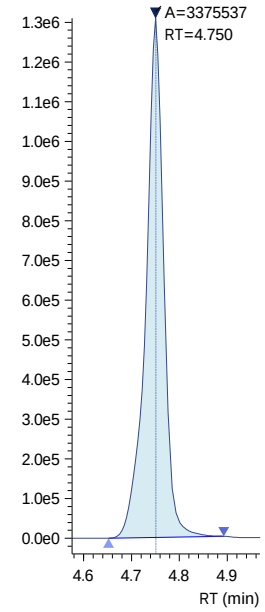
R1 463.00>219.00 (-) 8.07e3



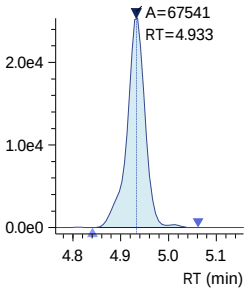
PFNA-13C
Conc 4.7883
Q 467.80>423.00 (-) 1.31e6



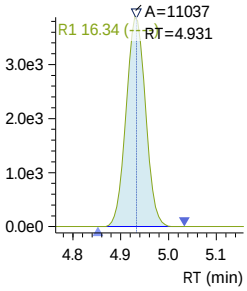
PFNA-13C_IS
Conc 5.0000
ISTD 467.80>423.00 (-) 1.31e6



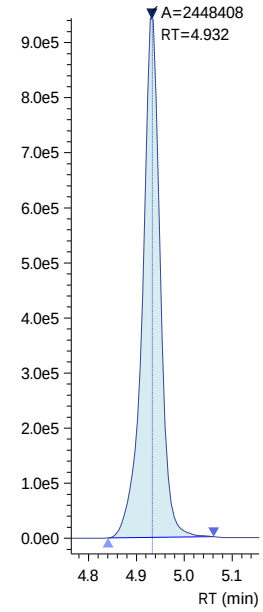
PFDA
Conc 0.0979
R#1 16.34 (20.24)
Q 513.00>468.80 (-) 2.53e4



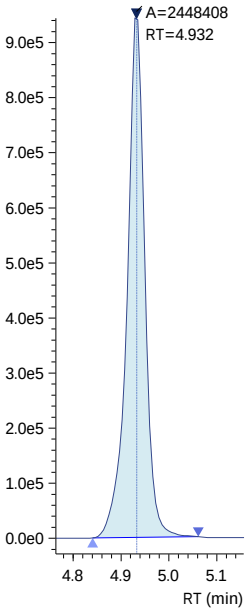
R1 513.00>219.10 (-) 3.88e3



PFDA-13C
Conc 4.9954
Q 514.80>469.95 (-) 9.44e5

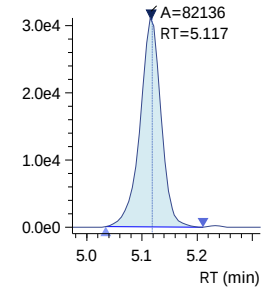


PFDA-13C_IS
Conc 5.0000
ISTD 514.80>469.95 (-) 9.44e5

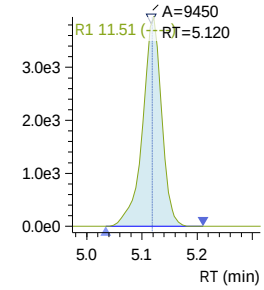


210909_009 (continued)

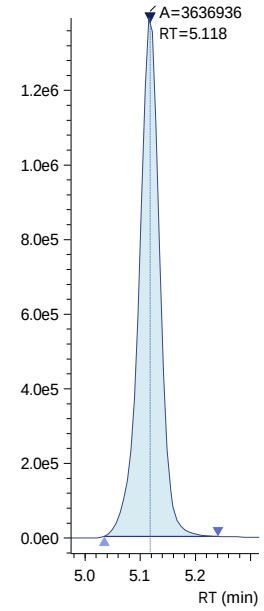
PFUnA
Conc 0.1020
R#1 11.51 (12.46)
Q 563.00>518.90 (-) 3.11e4



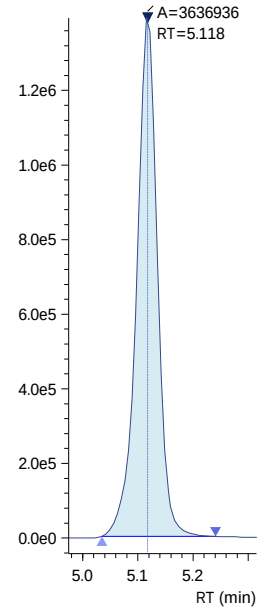
R1 563.00>219.00 (-) 3.95e3



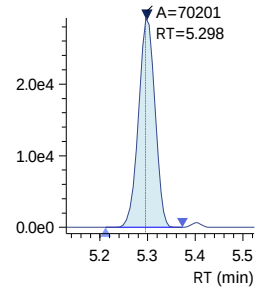
PFUnA-13C
Conc 4.9213
Q 564.80>519.95 (-) 1.39e6



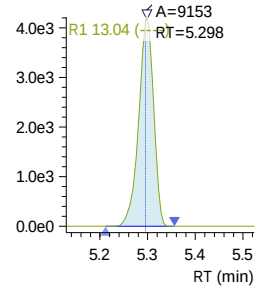
PFUnA-13C_IS
Conc 5.0000
ISTD 564.80>519.95 (-) 1.39e6



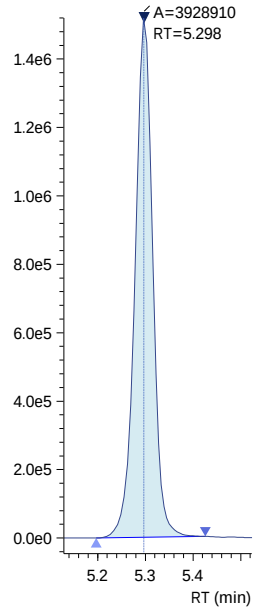
PFDoA
Conc 0.1003
R#1 13.04 (16.50)
Q 613.05>569.00 (-) 2.92e4



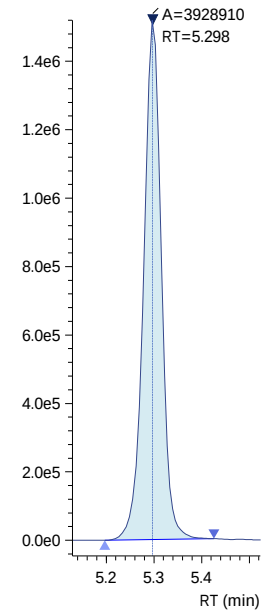
R1 613.05>169.00 (-) 4.22e3



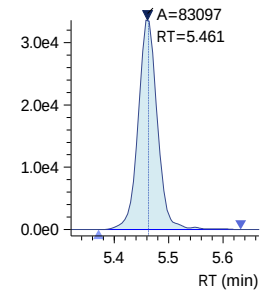
PFDoA-13C
Conc 4.8198
Q 614.80>569.95 (-) 1.52e6



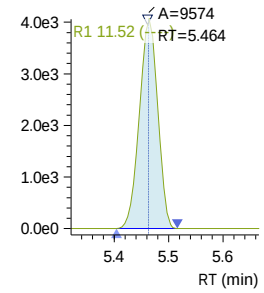
PFDoA-13C_IS
Conc 5.0000
ISTD 614.80>569.95 (-) 1.52e6



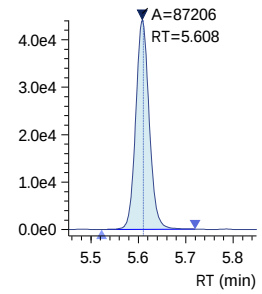
PFTrDA
Conc 0.0997
R#1 11.52 (15.29)
Q 663.00>618.90 (-) 3.36e4



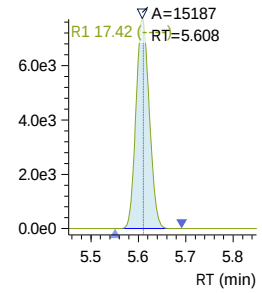
R1 662.90>169.00 (-) 4.06e3



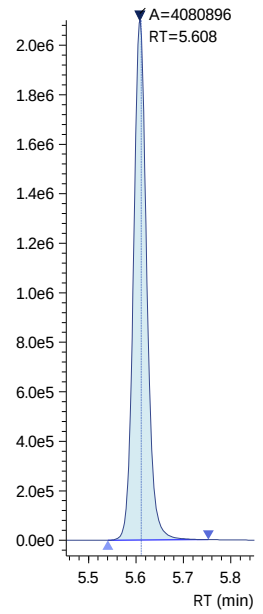
PFTeDA
Conc 0.0965
R#1 17.42 (17.47)
Q 713.00>669.00 (-) 4.41e4



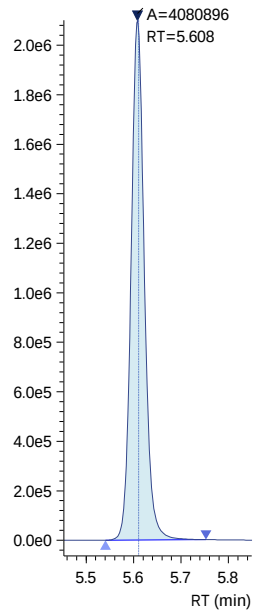
R1 713.00>169.10 (-) 7.71e3



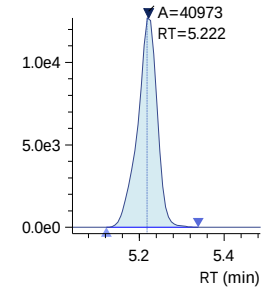
PFTeDA-13C
Conc 4.9895
Q 714.70>669.90 (-) 2.10e6

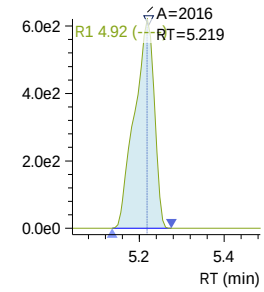


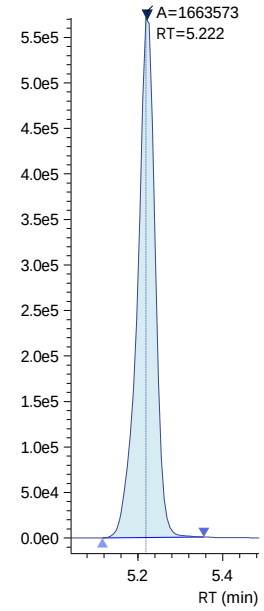
PFTeDA-13C_IS
Conc 5.0000
ISTD 714.70>669.90 (-) 2.10e6

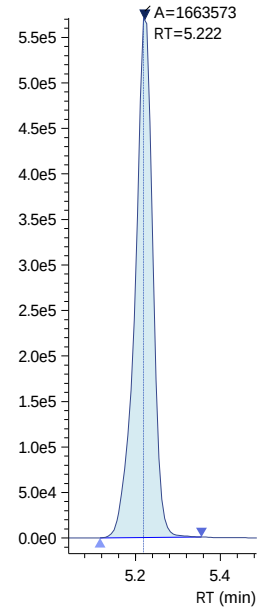


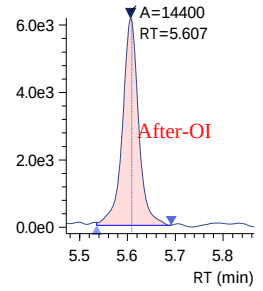
210909_009 (continued)

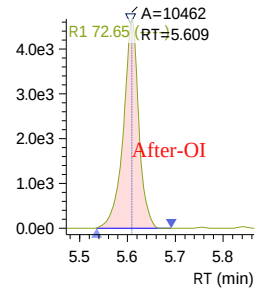
FOSA
Conc 0.1027
R#1 4.92 (5.19)
Q 498.20>78.00 (-) 1.27e4


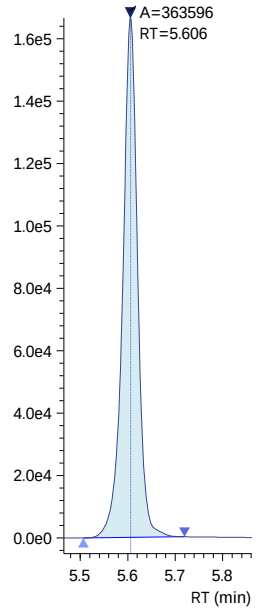
R1 498.20>64.10 (-) 6.21e2


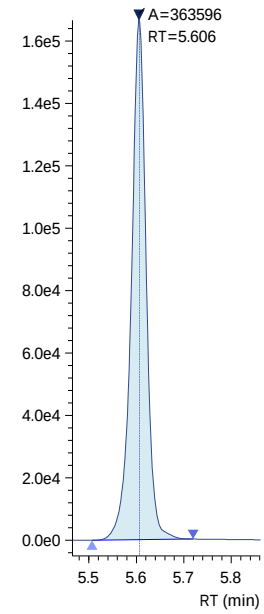
FOSA-13C
Conc 4.9022
Q 506.00>78.05 (-) 5.71e5


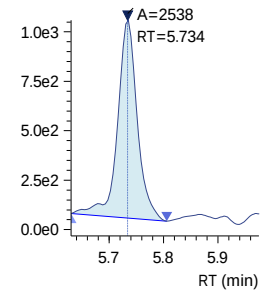
FOSA-13C_IS
Conc 5.0000
ISTD 506.00>78.05 (-) 5.71e5


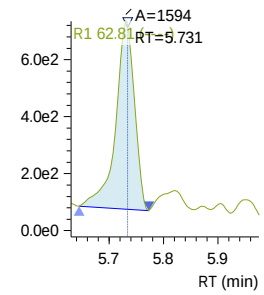
N-MeFOSA
Conc 0.1040
R#1 72.65 (69.94)
Q 512.00>169.10 (-) 6.21e3


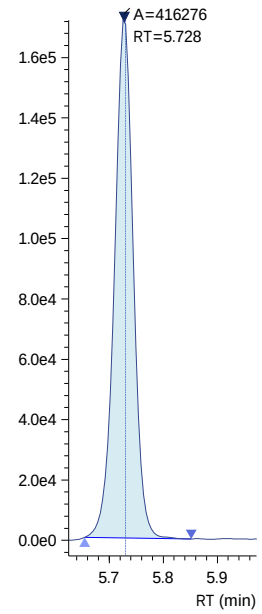
R1 512.00>219.00 (-) 4.67e3


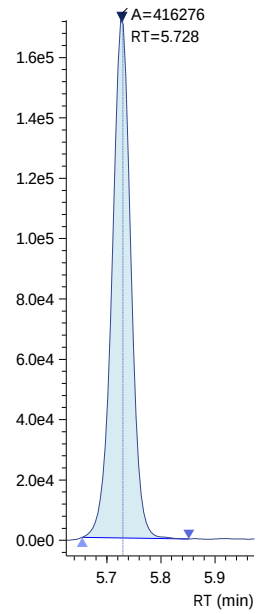
N-MeFOSA-d3
Conc 4.7752
Q 514.90>168.90 (-) 1.67e5


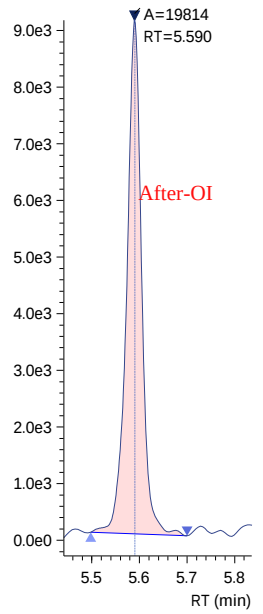
N-MeFOSA-d3_IS
Conc 5.0000
ISTD 514.90>168.90 (-) 1.67e5


N-MeFOSA
Conc 0.1006
R#1 62.81 (66.52)
Q 526.90>169.10 (-) 1.06e3


R1 526.90>219.00 (-) 7.35e2


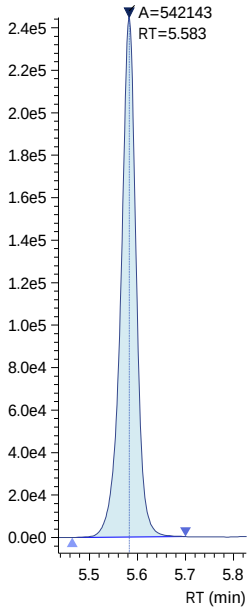
N-EtFOSA-d9
Conc 4.6928
Q 530.90>169.15 (-) 1.72e5


N-EtFOSA-d9_IS
Conc 5.0000
ISTD 530.90>169.15 (-) 1.72e5


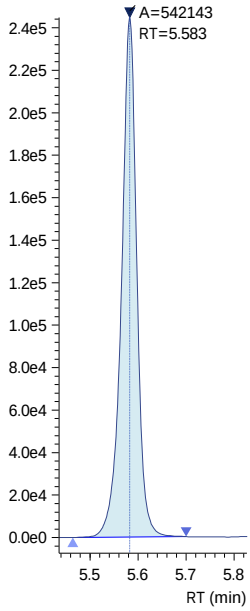
N-MeFOSE
Conc 0.1017
Q 616.00>59.00 (-) 9.18e3


210909_009 (continued)

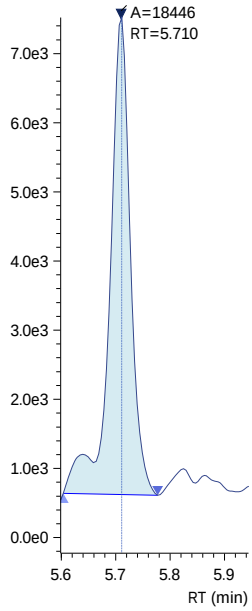
N-MeFOSE-d7
Conc 4.6239
Q 622.70>59.10 (-) 2.45e5



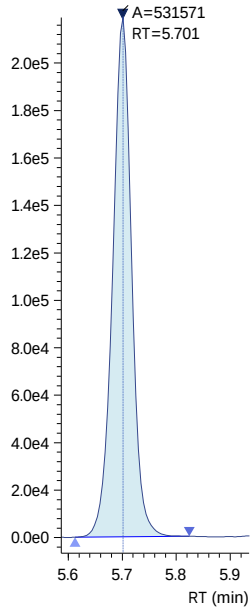
N-MeFOSE-d7_IS
Conc 5.0000
ISTD 622.70>59.10 (-) 2.45e5



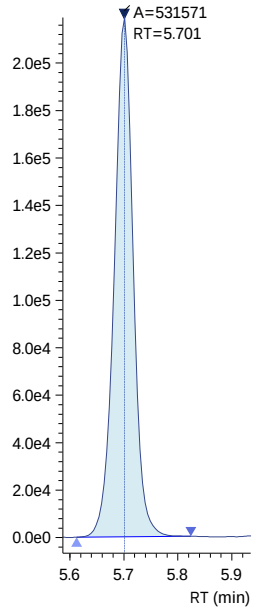
N-EtFOSE
Conc 0.1001
Q 630.00>58.90 (-) 7.52e3



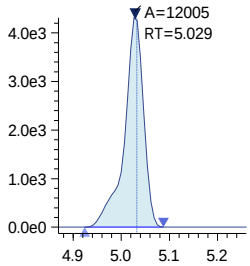
N-EtFOSE-d9
Conc 4.7876
Q 638.70>59.10 (-) 2.19e5



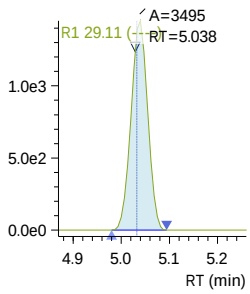
N-EtFOSE-d9_IS
Conc 5.0000
ISTD 638.70>59.10 (-) 2.19e5



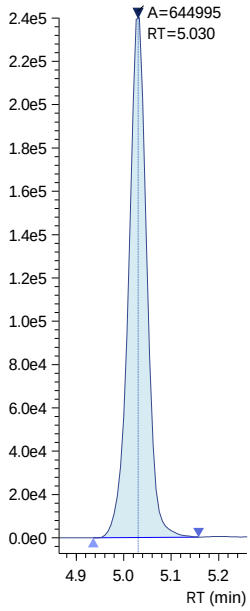
N-MeFOSAA
Conc 0.1208
R#1 29.11 (39.56)
Q 570.20>419.00 (-) 4.31e3



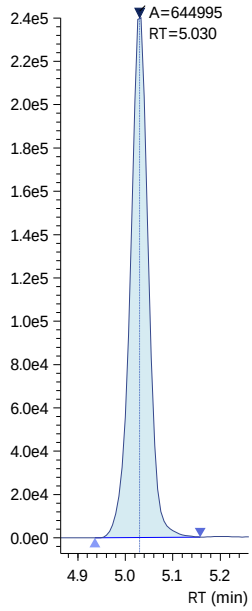
R1 570.20>512.00 (-) 1.45e3



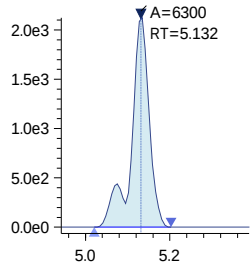
N-MeFOSAA-d3
Conc 4.7884
Q 572.80>419.05 (-) 2.40e5



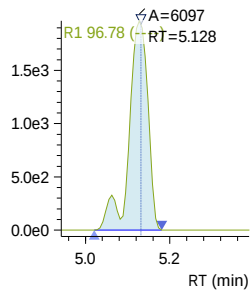
N-MeFOSAA-d3_IS
Conc 5.0000
ISTD 572.80>419.05 (-) 2.40e5



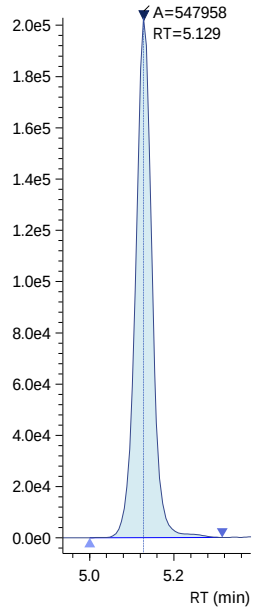
N-EtFOSAA
Conc 0.1014
R#1 96.78 (84.54)
Q 584.20>418.95 (-) 2.12e3



R1 584.20>526.10 (-) 1.97e3

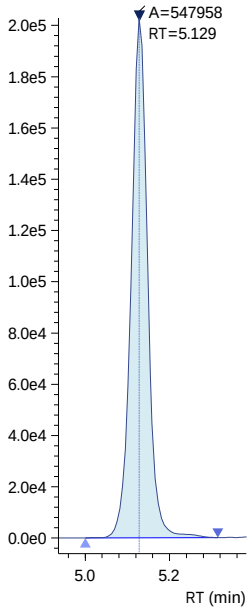


N-EtFOSAA-d5
Conc 4.8108
Q 588.80>419.00 (-) 2.03e5

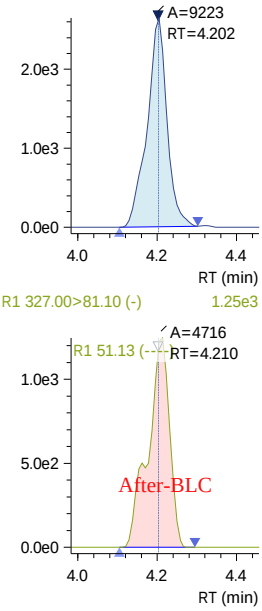


210909_009 (continued)

N-EtFOSAA-d5_IS
Conc 5.0000
ISTD 588.80>419.00 (-) 2.03e5

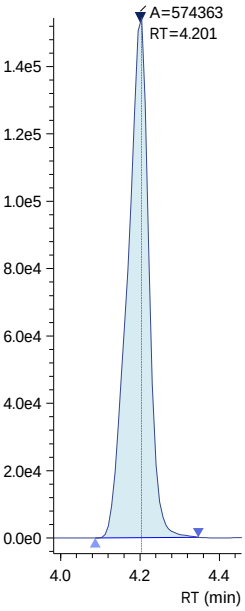


4_2-FTS_1
Conc 0.0889
R#1 51.13 (34.12)
Q 327.00>307.05 (-) 2.65e3

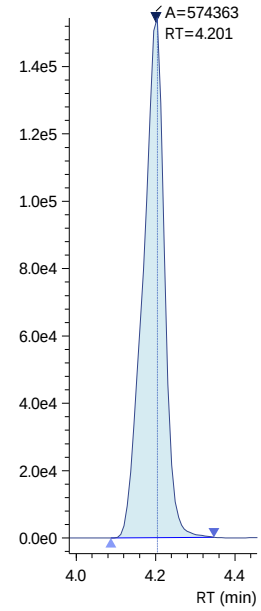


R1 327.00>81.10 (-) 1.25e3

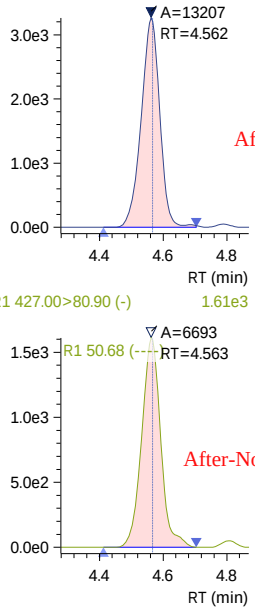
4_2-FTS-13C
Conc 4.5496
Q 328.80>309.05 (-) 1.54e5



4_2-FTS-13C_IS
Conc 5.0000
ISTD 328.80>309.05 (-) 1.54e5

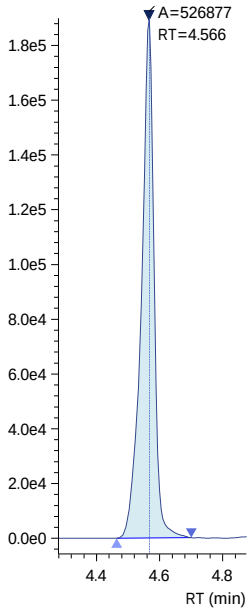


6_2-FTS_1
Conc 0.0961
R#1 50.68 (37.36)
Q 427.00>407.00 (-) 3.26e3

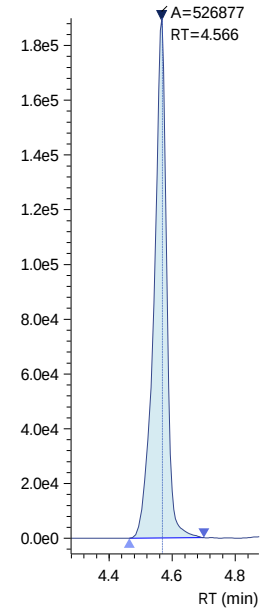


R1 427.00>80.90 (-) 1.61e3

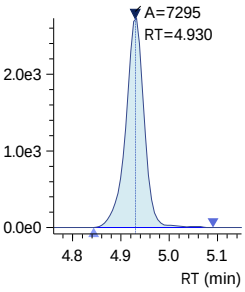
6_2-FTS-13C
Conc 4.9397
Q 428.90>409.00 (-) 1.90e5



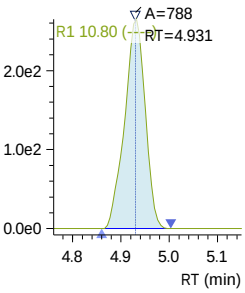
6_2-FTS-13C_IS
Conc 5.0000
ISTD 428.90>409.00 (-) 1.90e5



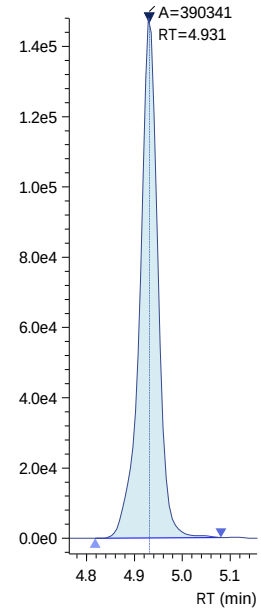
8_2-FTS_1
Conc 0.0978
R#1 10.80 (10.63)
Q 527.10>506.90 (-) 2.73e3



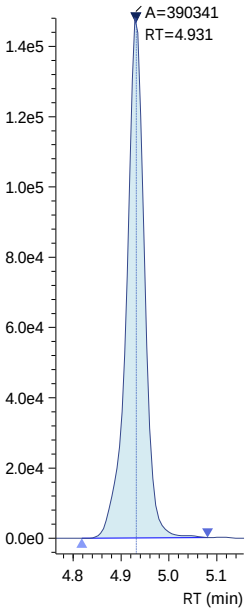
R1 527.20>487.00 (-) 2.65e2



8_2-FTS-13C
Conc 5.0342
Q 528.80>509.00 (-) 1.48e5

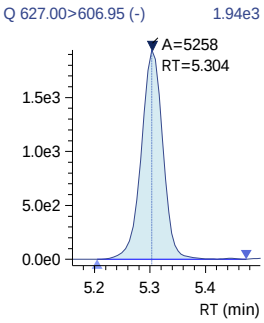


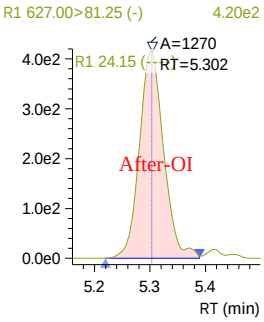
8_2-FTS-13C_IS
Conc 5.0000
ISTD 528.80>509.00 (-) 1.48e5



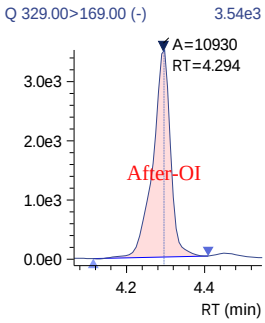
210909_009 (continued)

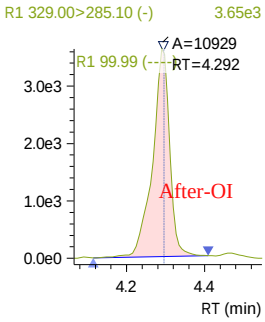
10_2-FtS_1
Conc 0.0868
R#1 24.15 (21.61)



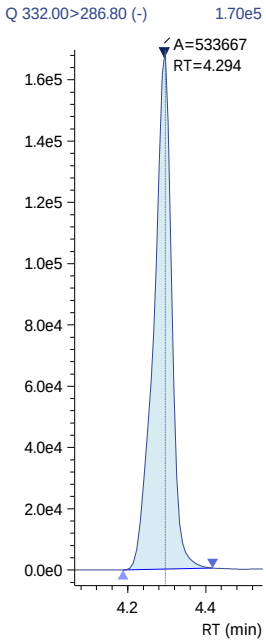


HPFO_DA
Conc 0.1024
R#1 99.99 (106.46)

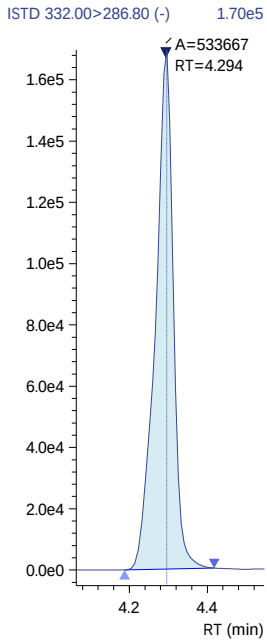




HFPO_DA-13C
Conc 4.6679



HFPO_DA-13C_IS
Conc 5.0000

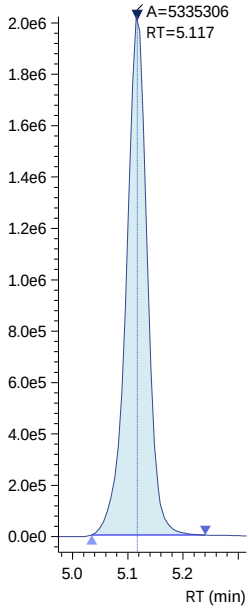


Insight Report
Before Manual Integration
Printed 9/9/2021 15:44:22

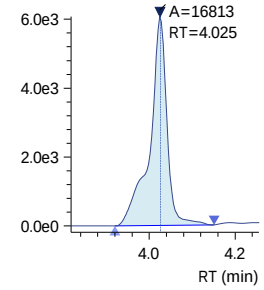
210909_009

Sample ID: PFC ICAL @ 0.10ppb
Date Acquired: 9/9/2021 2:05:28 PM
Acquired by: System Administrator
Data File: 210909_009
Vial: 2 | Inj. Volume: 15.0000uL | Tray: 0

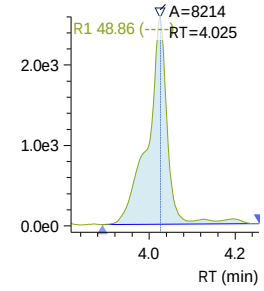
13C7-PFUnDA_IS
Conc 5.0000
ISTD 570.00>525.00 (-) 2.02e6



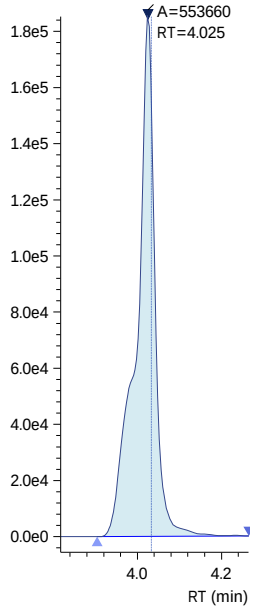
PFBS_1
Conc 0.0879
R#1 48.86 (46.55)
Q 299.00>80.00 (-) 6.08e3



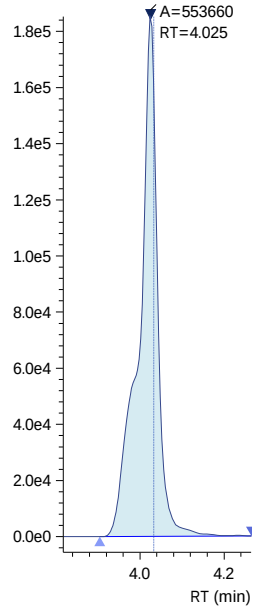
R1 298.80>99.00 (-) 2.60e3



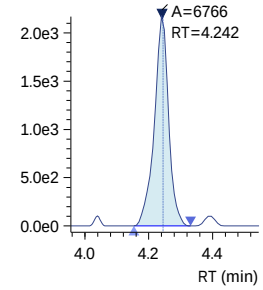
PFBS-13C
Conc 4.7729
Q 301.80>80.00 (-) 1.85e5



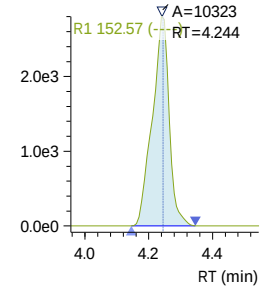
PFBS-13C_IS
Conc 5.0000
ISTD 301.80>80.00 (-) 1.85e5



PFPeS
Conc 0.0842
R#1 152.57 (154.38)
Q 349.00>99.00 (-) 2.17e3



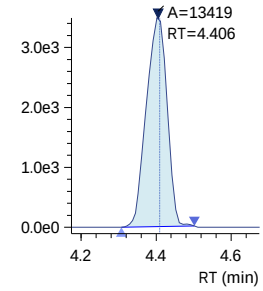
R1 349.00>79.95 (-) 2.80e3



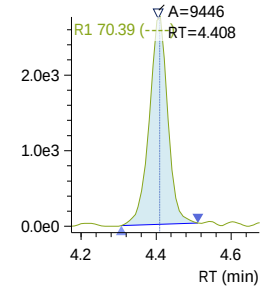
Insight Report
Before Manual Integration
Printed 9/9/2021 15:44:22

210909_009 (continued)

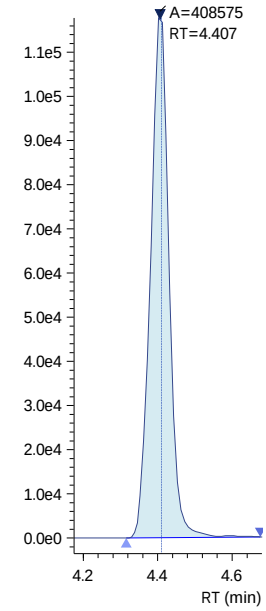
PFHxS_1
Conc 0.0921
R#1 70.39 (76.59)
Q 399.00>80.00 (-) 3.49e3



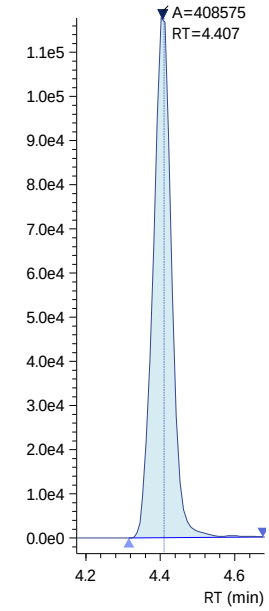
R1 399.00>99.00 (-) 2.77e3



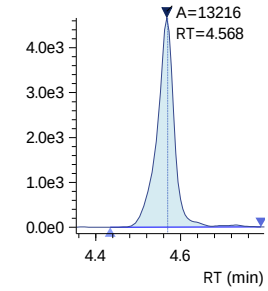
PFHxS-18O
Conc 4.9381
Q 402.70>84.05 (-) 1.18e5



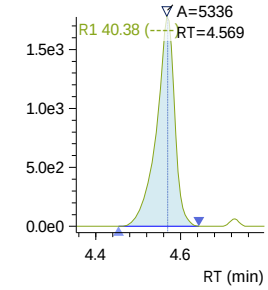
PFHxS-18O_IS
Conc 5.0000
ISTD 402.70>84.05 (-) 1.18e5



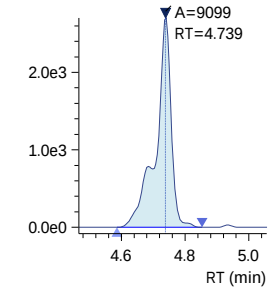
PFHpS_1
Conc 0.0929
R#1 40.38 (53.58)
Q 449.00>80.15 (-) 4.66e3



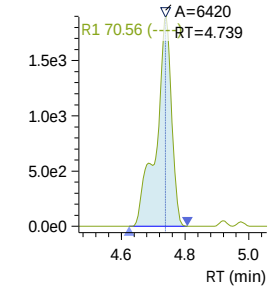
R1 449.00>99.20 (-) 1.78e3



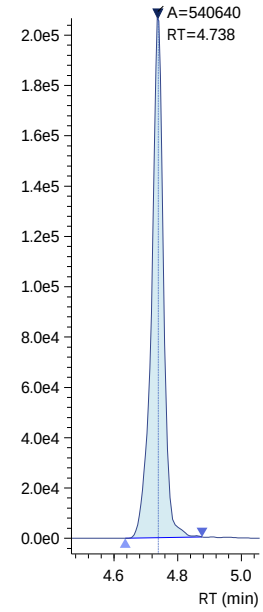
PFOS_1
Conc 0.0895
R#1 70.56 (84.68)
Q 499.00>80.00 (-) 2.70e3



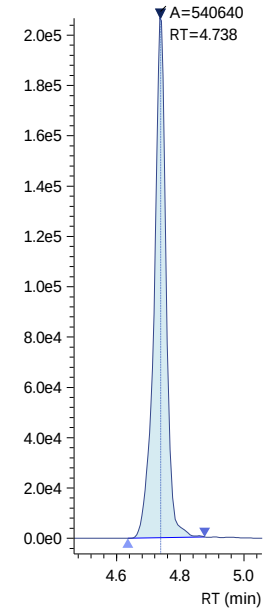
R1 499.00>99.00 (-) 1.90e3



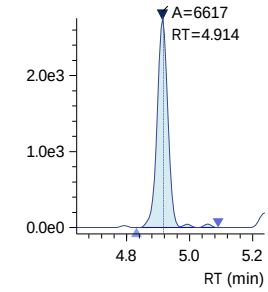
PFOS-13C
Conc 4.7816
Q 502.80>80.05 (-) 2.07e5



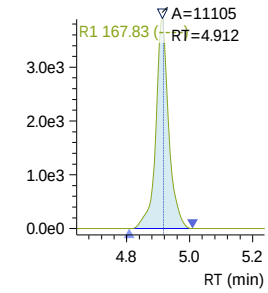
PFOS-13C_IS
Conc 5.0000
ISTD 502.80>80.05 (-) 2.07e5



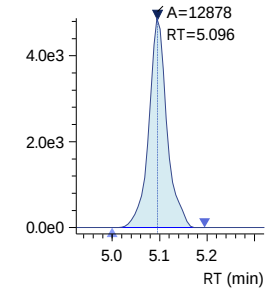
PFNS
Conc 0.0891
R#1 167.83 (133.04)
Q 549.00>99.00 (-) 2.76e3



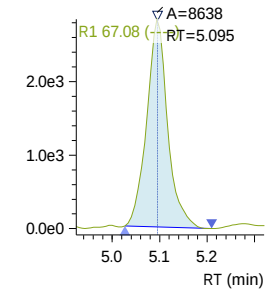
R1 549.00>79.95 (-) 3.89e3



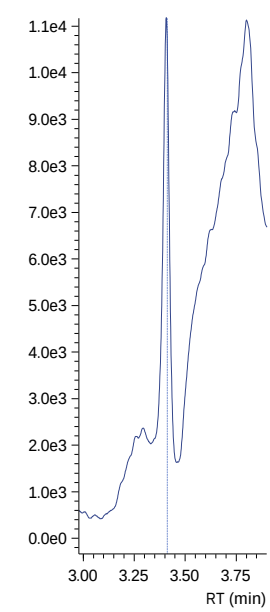
PFDS_1
Conc 0.1020
R#1 67.08 (89.20)
Q 599.00>79.90 (-) 4.87e3



R1 599.00>99.10 (-) 2.85e3

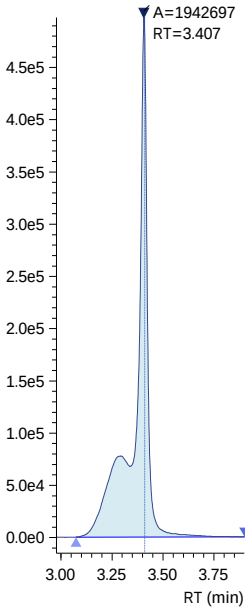


PFBA
Conc ----
Q 213.00>169.10 (-) 1.12e4

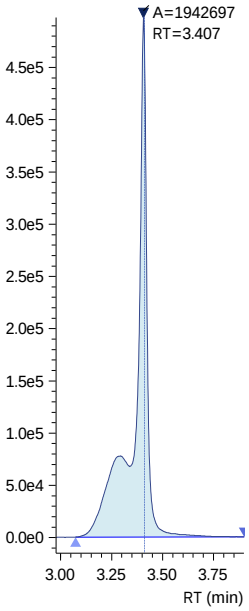


210909_009 (continued)

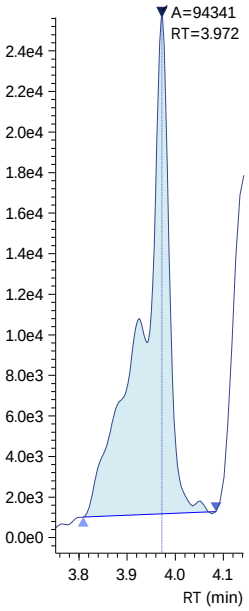
PFBA-13C
Conc 4.6681
Q 216.90>172.15 (-) 4.98e5



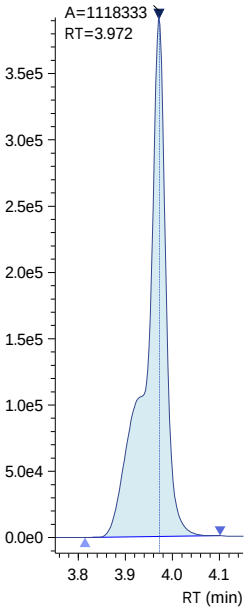
PFBA-13C_IS
Conc 5.0000
ISTD 216.90>172.15 (-) 4.98e5



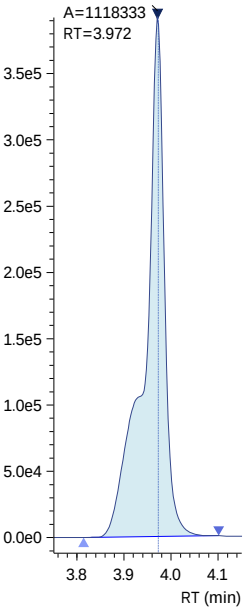
PFPeA
Conc 0.1040
Q 263.05>219.10 (-) 2.56e4



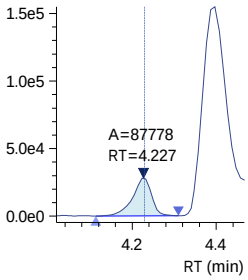
PFPeA-13C
Conc 4.7020
Q 267.90>223.00 (-) 3.92e5



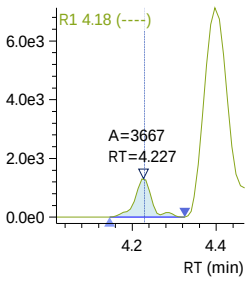
PFPeA-13C_IS
Conc 5.0000
ISTD 267.90>223.00 (-) 3.92e5



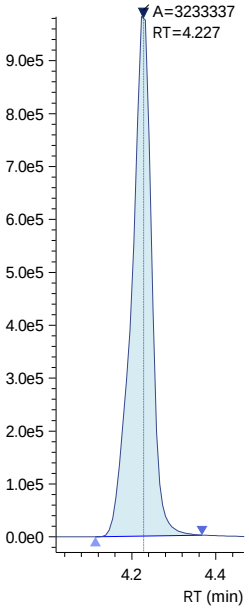
PFHxA
Conc 0.1039
R#1 4.18 (4.71)
Q 313.00>269.00 (-) 1.55e5



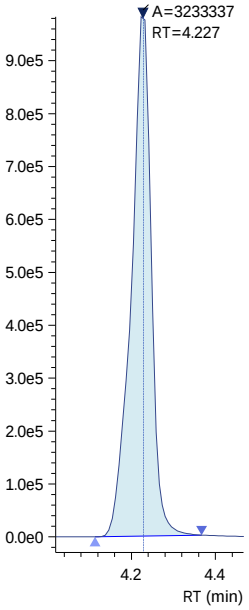
R1 313.00>119.10 (-) 7.13e3



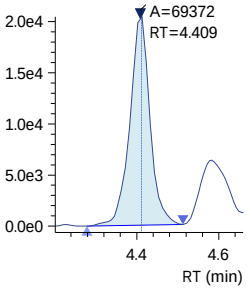
PFHxA-13C
Conc 4.7909
Q 314.90>270.10 (-) 9.83e5



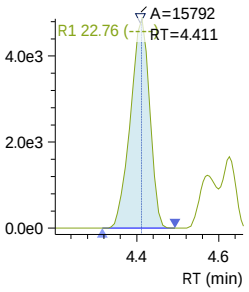
PFHxA-13C_IS
Conc 5.0000
ISTD 314.90>270.10 (-) 9.83e5



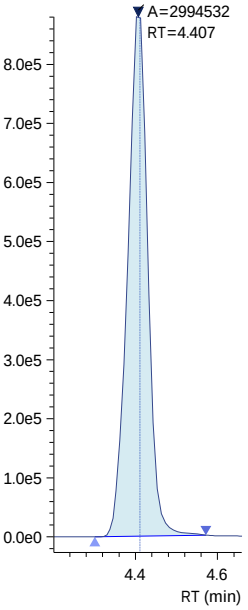
PFHpA
Conc 0.0995
R#1 22.76 (24.79)
Q 362.90>319.00 (-) 2.05e4



R1 362.90>169.00 (-) 4.87e3

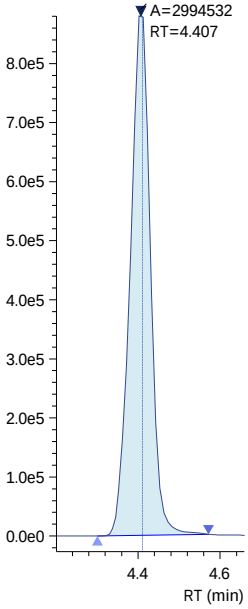


PFHpA-13C
Conc 4.8927
Q 366.90>322.10 (-) 8.81e5

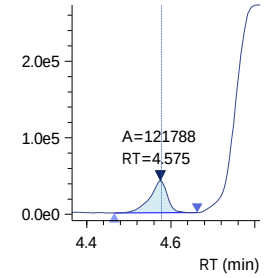


210909_009 (continued)

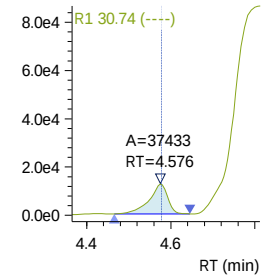
PFHpA-13C_IS
Conc 5.0000
ISTD 366.90>322.10 (-) 8.81e5



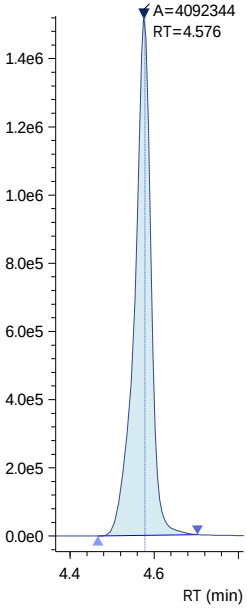
PFOA
Conc 0.1144
R#1 30.74 (30.61)
Q 413.00>369.00 (-) 2.74e5



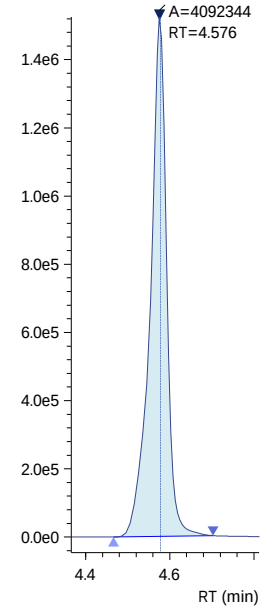
R1 413.00>169.10 (-) 8.67e4



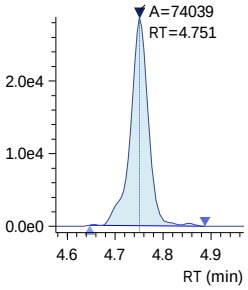
PFOA-13C
Conc 5.0014
Q 416.80>372.05 (-) 1.53e6



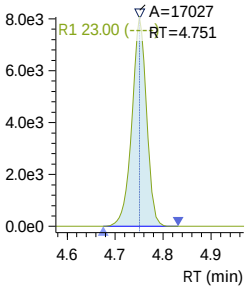
PFOA-13C_IS
Conc 5.0000
ISTD 416.80>372.05 (-) 1.53e6



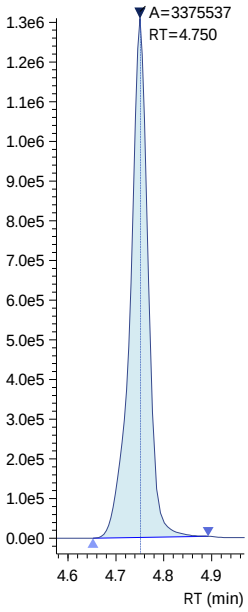
PFNA
Conc 0.1058
R#1 23.00 (23.82)
Q 463.00>418.90 (-) 2.88e4



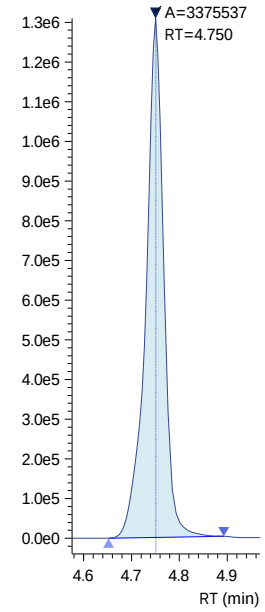
R1 463.00>219.00 (-) 8.07e3



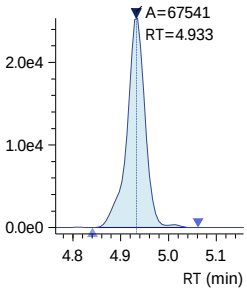
PFNA-13C
Conc 4.7883
Q 467.80>423.00 (-) 1.31e6



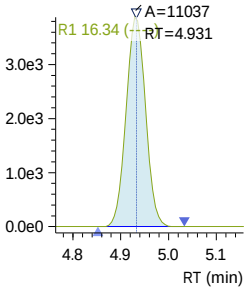
PFNA-13C_IS
Conc 5.0000
ISTD 467.80>423.00 (-) 1.31e6



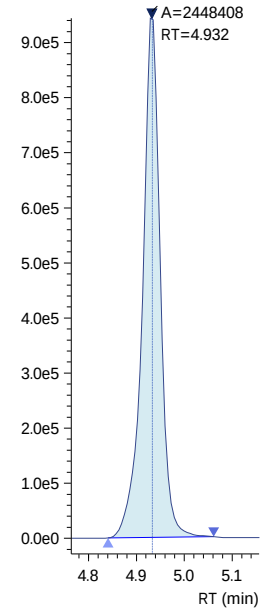
PFDA
Conc 0.0979
R#1 16.34 (20.11)
Q 513.00>468.80 (-) 2.53e4



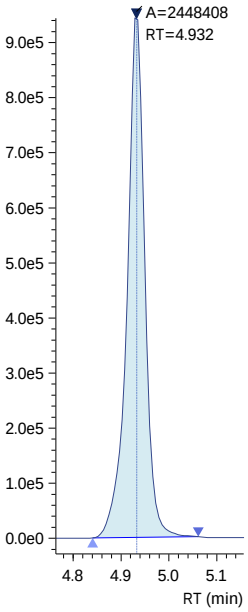
R1 513.00>219.10 (-) 3.88e3



PFDA-13C
Conc 4.9954
Q 514.80>469.95 (-) 9.44e5

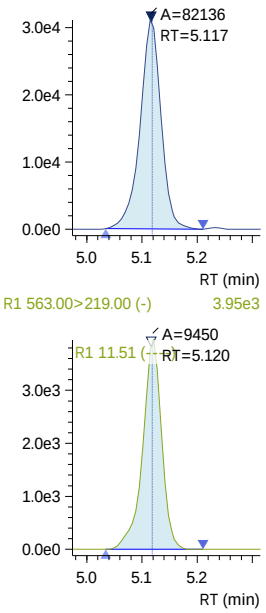


PFDA-13C_IS
Conc 5.0000
ISTD 514.80>469.95 (-) 9.44e5

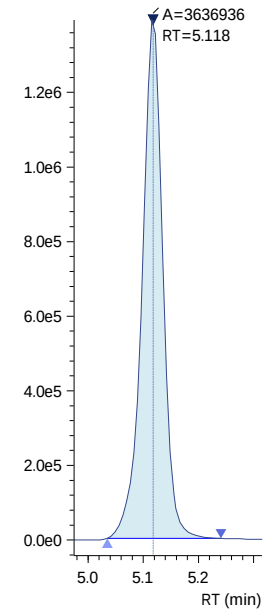


210909_009 (continued)

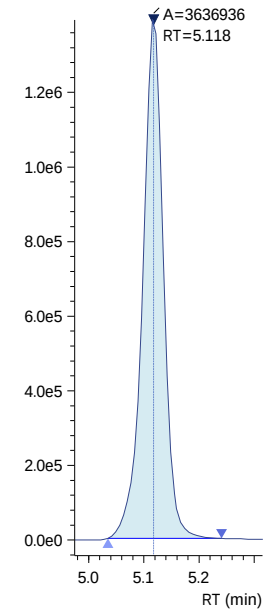
PFUnA
Conc 0.1020
R#1 11.51 (13.40)
Q 563.00>518.90 (-) 3.11e4
R1 563.00>219.00 (-) 3.95e3



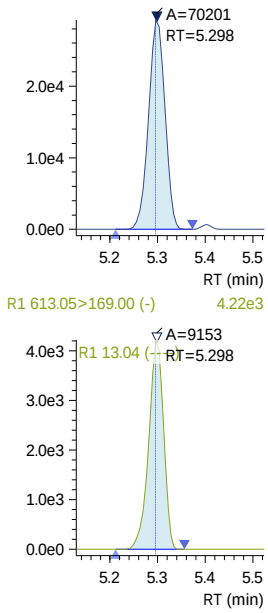
PFUnA-13C
Conc 4.9213
Q 564.80>519.95 (-) 1.39e6



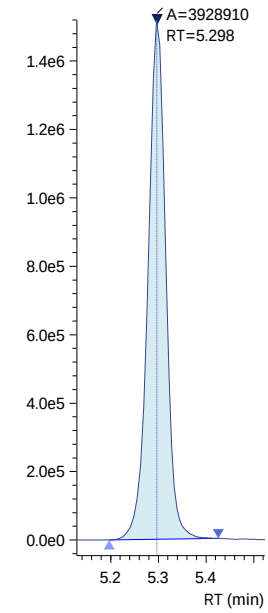
PFUnA-13C_IS
Conc 5.0000
ISTD 564.80>519.95 (-) 1.39e6



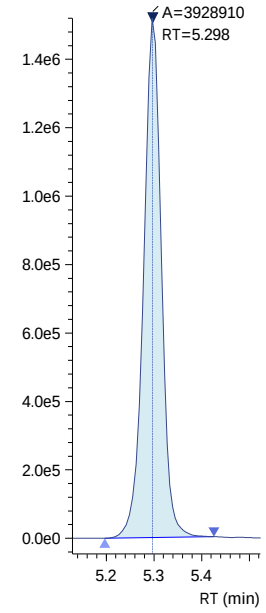
PFDoA
Conc 0.1000
R#1 13.04 (17.67)
Q 613.05>569.00 (-) 2.92e4
R1 613.05>169.00 (-) 4.22e3



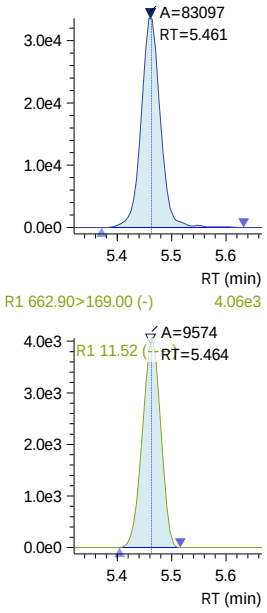
PFDoA-13C
Conc 4.8198
Q 614.80>569.95 (-) 1.52e6



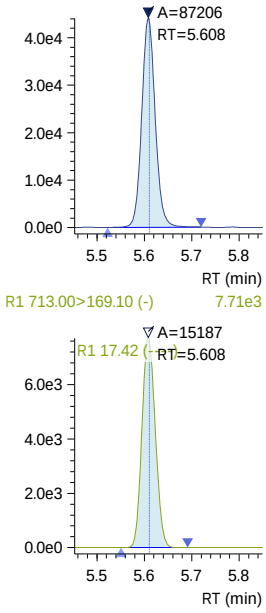
PFDoA-13C_IS
Conc 5.0000
ISTD 614.80>569.95 (-) 1.52e6



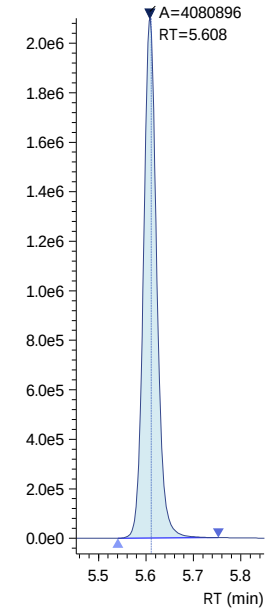
PFTrDA
Conc 0.0997
R#1 11.52 (14.03)
Q 663.00>618.90 (-) 3.36e4
R1 662.90>169.00 (-) 4.06e3



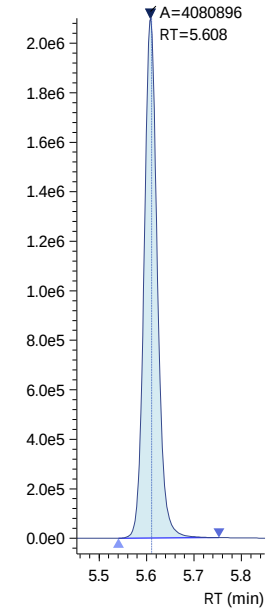
PFTeDA
Conc 0.0965
R#1 17.42 (16.71)
Q 713.00>669.00 (-) 4.41e4
R1 713.00>169.10 (-) 7.71e3



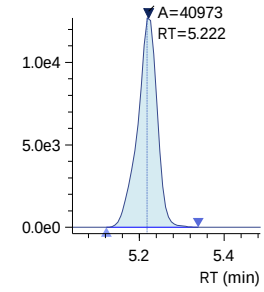
PFTeDA-13C
Conc 4.9895
Q 714.70>669.90 (-) 2.10e6

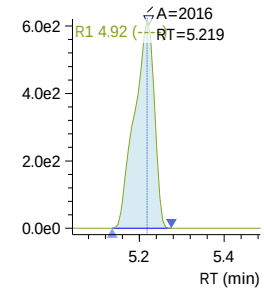


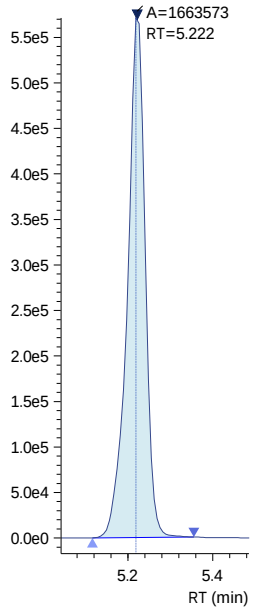
PFTeDA-13C_IS
Conc 5.0000
ISTD 714.70>669.90 (-) 2.10e6

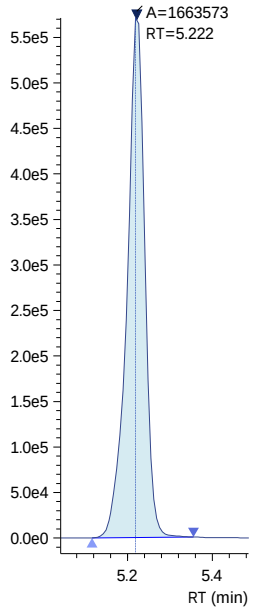


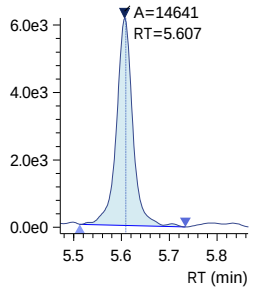
210909_009 (continued)

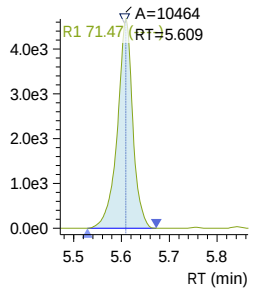
FOSA
Conc 0.1027
R#1 4.92 (4.71)
Q 498.20>78.00 (-) 1.27e4


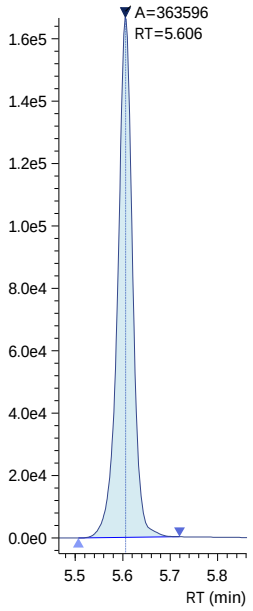
R1 498.20>64.10 (-) 6.21e2


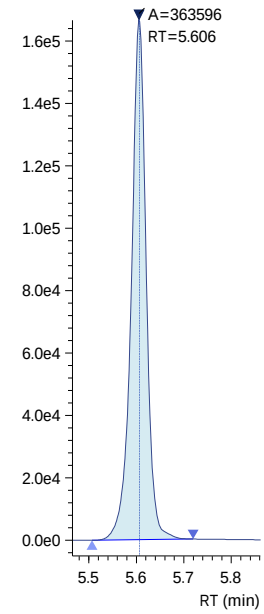
FOSA-13C
Conc 4.9022
Q 506.00>78.05 (-) 5.71e5


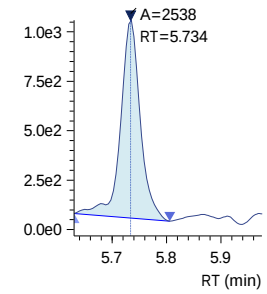
FOSA-13C_IS
Conc 5.0000
ISTD 506.00>78.05 (-) 5.71e5


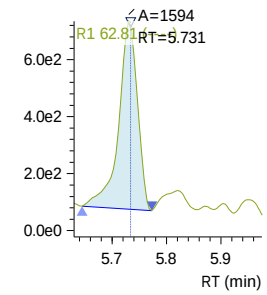
N-MeFOSA
Conc 0.1054
R#1 71.47 (66.26)
Q 512.00>169.10 (-) 6.21e3


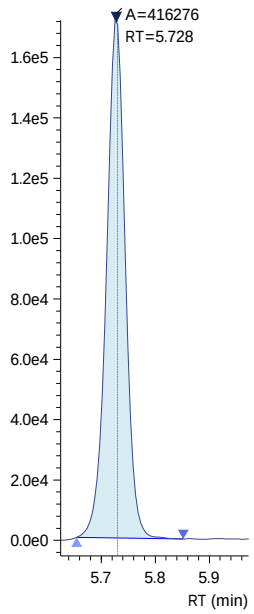
R1 512.00>219.00 (-) 4.67e3


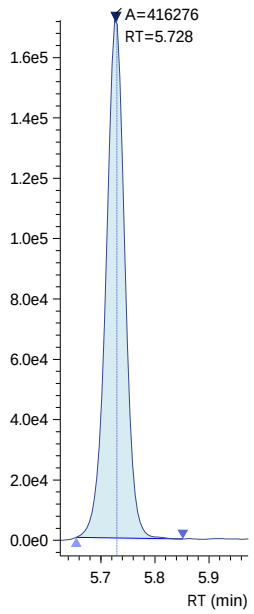
N-MeFOSA-d3
Conc 4.7752
Q 514.90>168.90 (-) 1.67e5


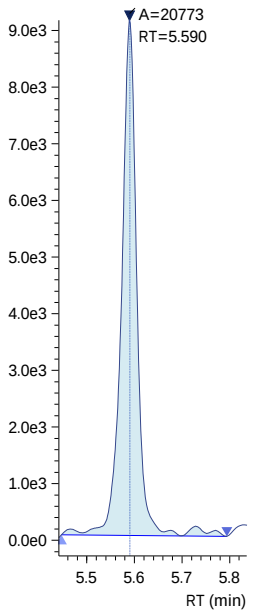
N-MeFOSA-d3_IS
Conc 5.0000
ISTD 514.90>168.90 (-) 1.67e5


N-EtFOSA
Conc 0.0978
R#1 62.81 (64.28)
Q 526.90>169.10 (-) 1.06e3


R1 526.90>219.00 (-) 7.35e2


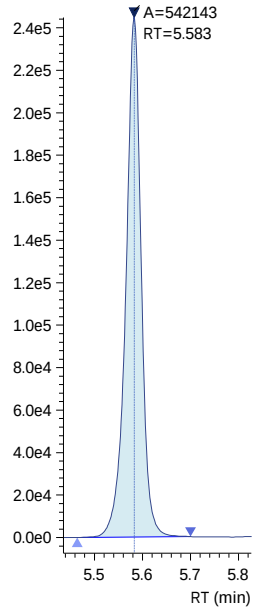
N-EtFOSA-d9
Conc 4.6928
Q 530.90>169.15 (-) 1.72e5


N-EtFOSA-d9_IS
Conc 5.0000
ISTD 530.90>169.15 (-) 1.72e5


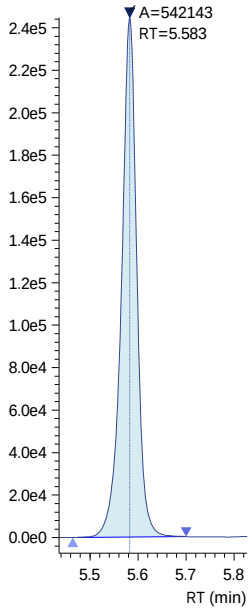
N-MeFOSE
Conc 0.1059
Q 616.00>59.00 (-) 9.18e3


210909_009 (continued)

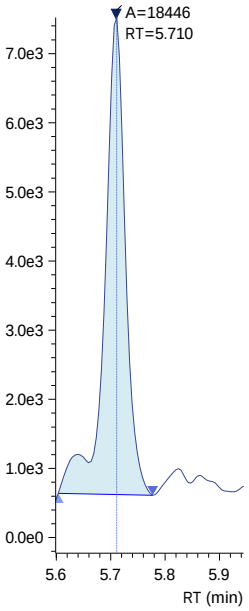
N-MeFOSE-d7
Conc 4.6239
Q 622.70>59.10 (-) 2.45e5



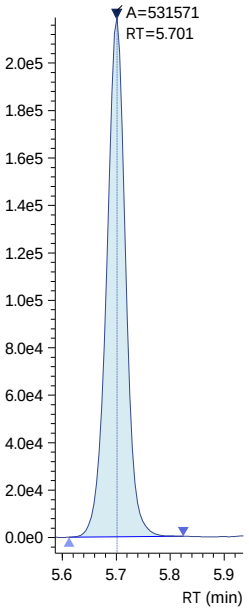
N-MeFOSE-d7_IS
Conc 5.0000
ISTD 622.70>59.10 (-) 2.45e5



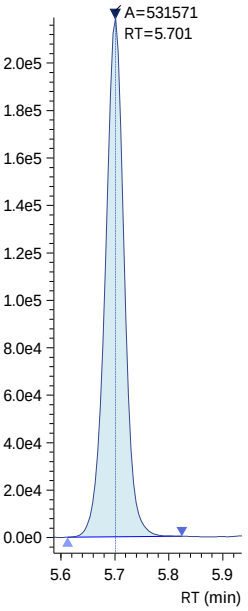
N-EtFOSE
Conc 0.0998
Q 630.00>58.90 (-) 7.52e3



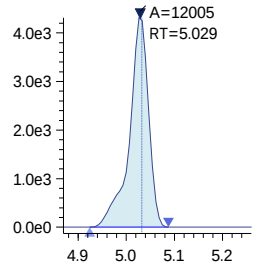
N-EtFOSE-d9
Conc 4.7876
Q 638.70>59.10 (-) 2.19e5



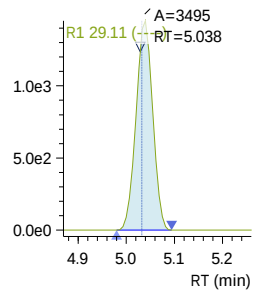
N-EtFOSE-d9_IS
Conc 5.0000
ISTD 638.70>59.10 (-) 2.19e5



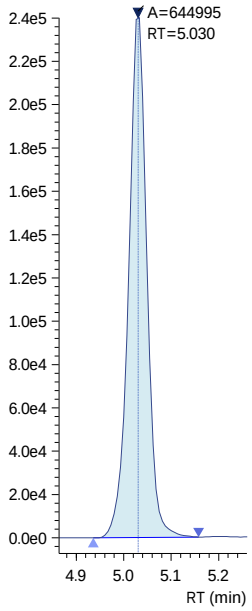
N-MeFOSAA
Conc 0.1208
R#1 29.11 (39.15)
Q 570.20>419.00 (-) 4.31e3



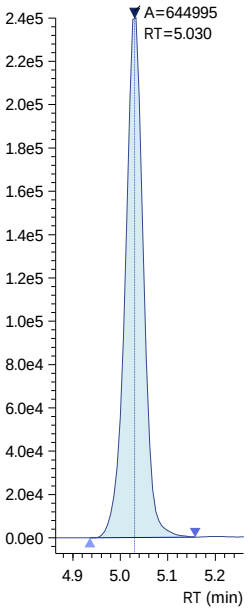
R1 570.20>512.00 (-) 1.45e3



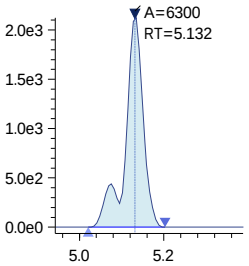
N-MeFOSAA-d3
Conc 4.7884
Q 572.80>419.05 (-) 2.40e5



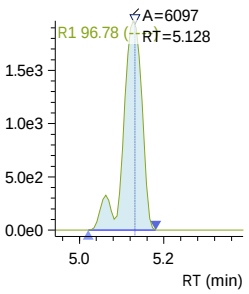
N-MeFOSAA-d3_IS
Conc 5.0000
ISTD 572.80>419.05 (-) 2.40e5



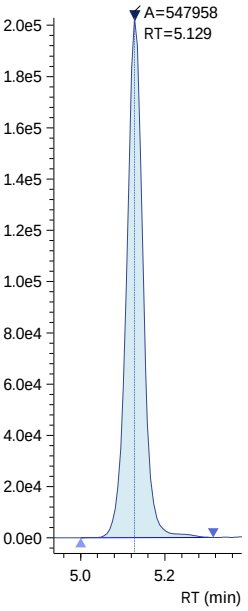
N-EtFOSAA
Conc 0.1014
R#1 96.78 (76.53)
Q 584.20>418.95 (-) 2.12e3



R1 584.20>526.10 (-) 1.97e3

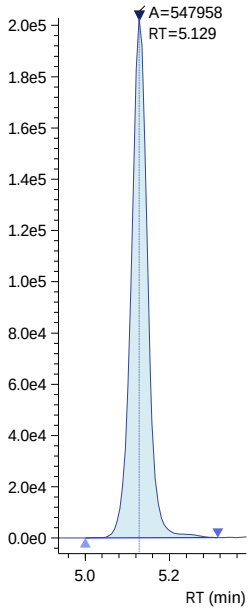


N-EtFOSAA-d5
Conc 4.8108
Q 588.80>419.00 (-) 2.03e5

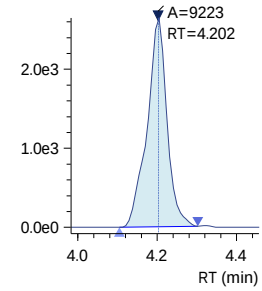


210909_009 (continued)

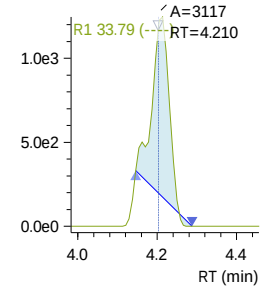
N-EtFOSAA-d5_IS
Conc 5.0000
ISTD 588.80>419.00 (-) 2.03e5



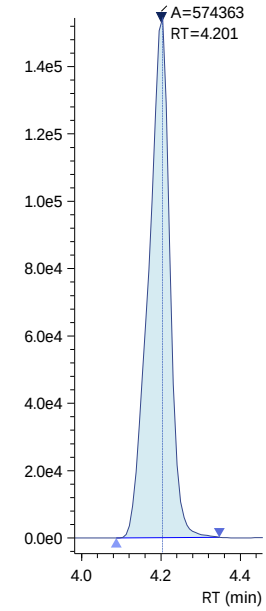
4_2-FTS_1
Conc 0.0889
R#1 33.79 (26.47)
Q 327.00>307.05 (-) 2.65e3



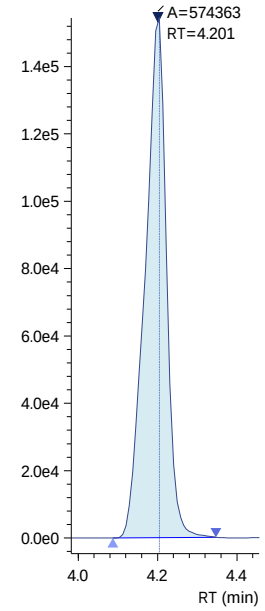
R1 327.00>81.10 (-) 1.25e3



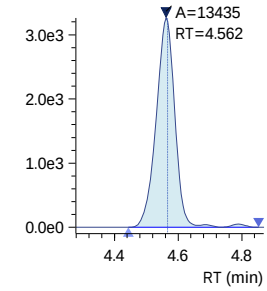
4_2-FTS-13C
Conc 4.5496
Q 328.80>309.05 (-) 1.54e5



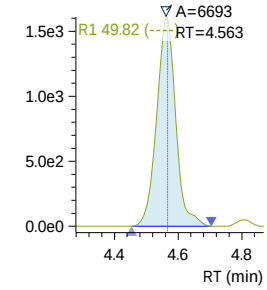
4_2-FTS-13C_IS
Conc 5.0000
ISTD 328.80>309.05 (-) 1.54e5



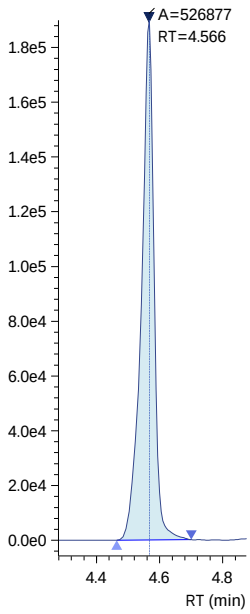
6_2-FTS_1
Conc 0.0972
R#1 49.82 (30.68)
Q 427.00>407.00 (-) 3.26e3



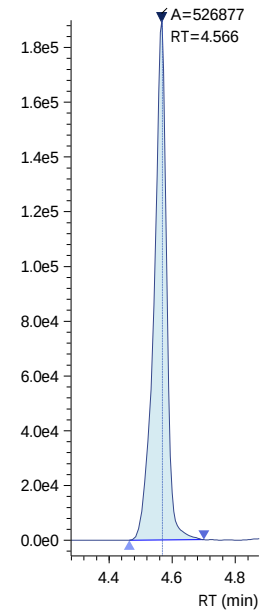
R1 427.00>80.90 (-) 1.61e3



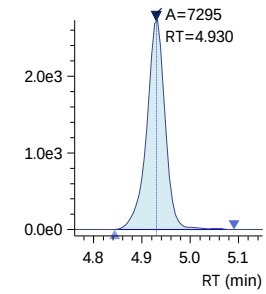
6_2-FTS-13C
Conc 4.9397
Q 428.90>409.00 (-) 1.90e5



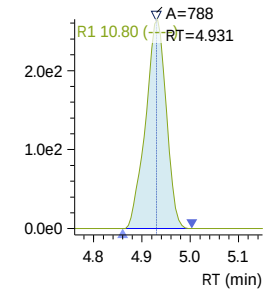
6_2-FTS-13C_IS
Conc 5.0000
ISTD 428.90>409.00 (-) 1.90e5



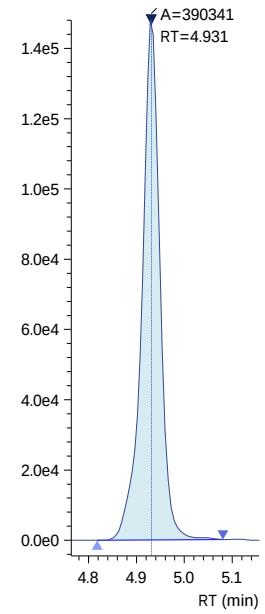
8_2-FTS_1
Conc 0.0978
R#1 10.80 (8.90)
Q 527.10>506.90 (-) 2.73e3



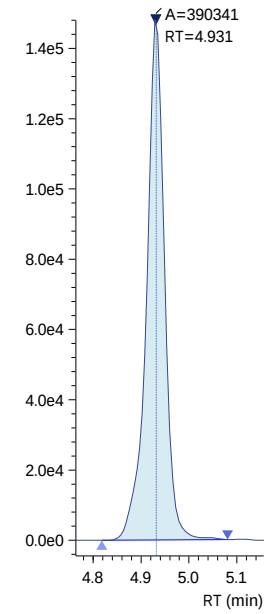
R1 527.20>487.00 (-) 2.65e2



8_2-FTS-13C
Conc 5.0342
Q 528.80>509.00 (-) 1.48e5

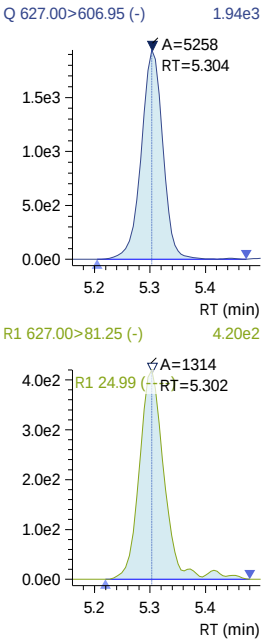


8_2-FTS-13C_IS
Conc 5.0000
ISTD 528.80>509.00 (-) 1.48e5

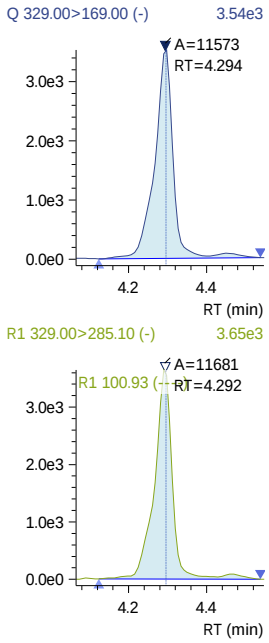


210909_009 (continued)

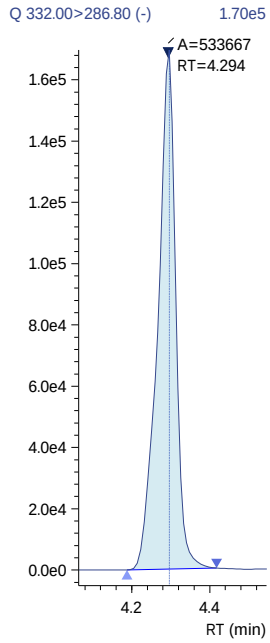
10_2-FtS_1
Conc 0.0868
R#1 24.99 (26.33)



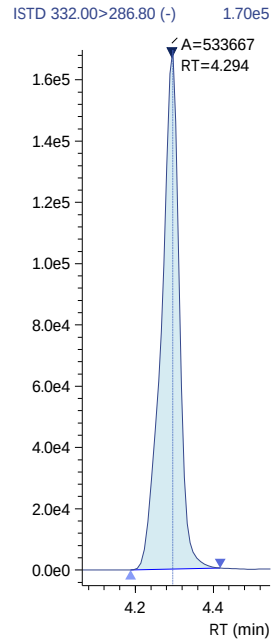
HPFO_DA
Conc 0.1069
R#1 100.93 (103.01)



HFPO_DA-13C
Conc 4.6679



HFPO_DA-13C_IS
Conc 5.0000



Insight Report
Retention Time/Signal:Noise Ratio Confirmation
Printed 9/9/2021 16:28:51

210909_010

Sample ID: PFC ICAL @ 0.50ppb
Date Acquired: 9/9/2021 2:15:56 PM
Acquired by: System Administrator
Data File: 210909_010
Vial: 3 | Inj. Volume: 15.0000uL | Tray: 0

Name	m/z	Ref 1 m/z	Found RT	RT Diff	ISTD RT Diff	S/N	Ref 1 S/N	Flag ID
13C7-PFUnDA_IS	570.00>525.00	----	5.118	0.001	----	1593	----	
PFBS_1	299.00>80.00	298.80>99.00	4.026	-0.001	0.000	4242	3442	
PFBS-13C	301.80>80.00	----	4.026	-0.007	-1.092	(INF)	----	
PFBS-13C_IS	301.80>80.00	----	4.026	-0.007	----	(INF)	----	
PFPeS	349.00>99.00	349.00>79.95	4.244	-0.001	0.218	(INF)	(INF)	
PFHxS_1	399.00>80.00	399.00>99.00	4.402	-0.008	-0.006	(INF)	(INF)	
PFHxS-18O	402.70>84.05	----	4.408	-0.002	-0.710	(INF)	----	
PFHxS-18O_IS	402.70>84.05	----	4.408	-0.002	----	(INF)	----	
PFHpS_1	449.00>80.15	449.00>99.20	4.569	-0.001	0.161	3469	(INF)	
PFOS_1	499.00>80.00	499.00>99.00	4.738	0.000	0.001	(INF)	(INF)	
PFOS-13C	502.80>80.05	----	4.737	-0.002	-0.381	(INF)	----	
PFOS-13C_IS	502.80>80.05	----	4.737	-0.002	----	(INF)	----	
PFNS	549.00>99.00	549.00>79.95	4.914	-0.002	0.177	(INF)	(INF)	
PFDS_1	599.00>79.90	599.00>99.10	5.097	0.002	0.360	(INF)	(INF)	
PFBA	213.00>169.10	----	3.410	-0.001	0.001	28	----	
PFBA-13C	216.90>172.15	----	3.409	-0.001	-1.709	13109	----	
PFBA-13C_IS	216.90>172.15	----	3.409	-0.001	----	13109	----	
PFPeA	263.05>219.10	----	3.973	0.000	0.001	336	----	
PFPeA-13C	267.90>223.00	----	3.972	-0.001	-1.146	20331	----	
PFPeA-13C_IS	267.90>223.00	----	3.972	-0.001	----	20331	----	
PFHxA	313.00>269.00	313.00>119.10	4.228	-0.001	0.001	3239	(INF)	
PFHxA-13C	314.90>270.10	----	4.227	-0.002	-0.891	57028	----	
PFHxA-13C_IS	314.90>270.10	----	4.227	-0.002	----	57028	----	
PFHpA	362.90>319.00	362.90>169.00	4.407	-0.005	-0.001	2692	(INF)	
PFHpA-13C	366.90>322.10	----	4.408	-0.003	-0.710	32852	----	
PFHpA-13C_IS	366.90>322.10	----	4.408	-0.003	----	32852	----	
PFOA	413.00>369.00	413.00>169.10	4.577	-0.001	0.000	997	840	
PFOA-13C	416.80>372.05	----	4.577	-0.001	-0.541	1279953	----	
PFOA-13C_IS	416.80>372.05	----	4.577	-0.001	----	1279953	----	
PFNA	463.00>418.90	463.00>219.00	4.751	0.000	0.001	(INF)	(INF)	
PFNA-13C	467.80>423.00	----	4.750	-0.001	-0.368	28493	----	
PFNA-13C_IS	467.80>423.00	----	4.750	-0.001	----	28493	----	
PFDA	513.00>468.80	513.00>219.10	4.933	0.000	0.000	1434	(INF)	
PFDA-13C	514.80>469.95	----	4.933	0.000	-0.185	(INF)	----	
PFDA-13C_IS	514.80>469.95	----	4.933	0.000	----	(INF)	----	
PFUnA	563.00>518.90	563.00>219.00	5.118	0.000	0.000	1524	14879	
PFUnA-13C	564.80>519.95	----	5.118	0.000	0.000	1356	----	
PFUnA-13C_IS	564.80>519.95	----	5.118	0.000	----	1356	----	
PFDoA	613.05>569.00	613.05>169.00	5.298	0.002	0.001	(INF)	(INF)	
PFDoA-13C	614.80>569.95	----	5.297	0.000	0.179	(INF)	----	
PFDoA-13C_IS	614.80>569.95	----	5.297	0.000	----	(INF)	----	
PFTrDA	663.00>618.90	662.90>169.00	5.461	-0.002	-0.147	(INF)	(INF)	
PFTeDA	713.00>669.00	713.00>169.10	5.608	-0.003	0.000	12186	18668	
PFTeDA-13C	714.70>669.90	----	5.608	-0.003	0.490	64486	----	
PFTeDA-13C_IS	714.70>669.90	----	5.608	-0.003	----	68929	----	
FOSA	498.20>78.00	498.20>64.10	5.222	0.004	0.000	(INF)	(INF)	
FOSA-13C	506.00>78.05	----	5.222	0.003	0.104	3287	----	
FOSA-13C_IS	506.00>78.05	----	5.222	0.003	----	3287	----	
N-MeFOSA	512.00>169.10	512.00>219.00	5.609	0.000	0.003	518	698	
N-MeFOSA-d3	514.90>168.90	----	5.606	0.000	0.488	856	----	
N-MeFOSA-d3_IS	514.90>168.90	----	5.606	0.000	----	856	----	

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SN - Software-calculated S/N ratio outside criteria due to non-target peaks or drift in noise calculation window. Analyst review of noise levels (excluding non-target peaks) in chromatogram indicates S/N ratio meets criteria.

210909_010 (continued)

(Table continued from previous page)

Name	m/z	Ref 1 m/z	Found RT	RT Diff	ISTD RT Diff	S/N	Ref 1 S/N	Flag ID
N-EtFOSA	526.90>169.10	526.90>219.00	5.734	0.000	0.006	332	123	
N-EtFOSA-d9	530.90>169.15	----	5.728	-0.002	0.610	1525	----	
N-EtFOSA-d9_IS	530.90>169.15	----	5.728	-0.002	----	1525	----	
N-MeFOSE	616.00>59.00	----	5.590	0.000	0.008	1528	----	
N-MeFOSE-d7	622.70>59.10	----	5.582	-0.001	0.464	5708	----	
N-MeFOSE-d7_IS	622.70>59.10	----	5.582	-0.001	----	5708	----	
N-EtFOSE	630.00>58.90	----	5.711	0.000	0.010	408	----	
N-EtFOSE-d9	638.70>59.10	----	5.701	0.000	0.583	1353	----	
N-EtFOSE-d9_IS	638.70>59.10	----	5.701	0.000	----	1353	----	
N-MeFOSAA	570.20>419.00	570.20>512.00	5.031	-0.002	0.000	1825	(INF)	
N-MeFOSAA-d3	572.80>419.05	----	5.031	0.001	-0.087	566566	----	
N-MeFOSAA-d3_IS	572.80>419.05	----	5.031	0.001	----	566566	----	
N-EtFOSAA	584.20>418.95	584.20>526.10	5.133	0.001	0.004	(INF)	(INF)	
N-EtFOSAA-d5	588.80>419.00	----	5.129	0.001	0.011	(INF)	----	
N-EtFOSAA-d5_IS	588.80>419.00	----	5.129	0.001	----	(INF)	----	
4_2-FTS_1	327.00>307.05	327.00>81.10	4.202	-0.001	0.000	(INF)	(INF)	
4_2-FTS-13C	328.80>309.05	----	4.202	-0.002	-0.916	(INF)	----	
4_2-FTS-13C_IS	328.80>309.05	----	4.202	-0.002	----	(INF)	----	
6_2-FTS_1	427.00>407.00	427.00>80.90	4.565	-0.002	-0.002	(INF)	(INF)	
6_2-FTS-13C	428.90>409.00	----	4.567	-0.001	-0.551	(INF)	----	
6_2-FTS-13C_IS	428.90>409.00	----	4.567	-0.001	----	(INF)	----	
8_2-FTS_1	527.10>506.90	527.20>487.00	4.931	0.001	-0.001	(INF)	(INF)	
8_2-FTS-13C	528.80>509.00	----	4.932	0.000	-0.186	(INF)	----	
8_2-FTS-13C_IS	528.80>509.00	----	4.932	0.000	----	(INF)	----	
10_2-FtS_1	627.00>606.95	627.00>81.25	5.304	0.001	0.372	(INF)	(INF)	
HPFO_DA	329.00>169.00	329.00>285.10	4.295	-0.001	0.000	20703	4236	
HFPO_DA-13C	332.00>286.80	----	4.295	-0.001	-0.823	19120	----	
HFPO_DA-13C_IS	332.00>286.80	----	4.295	-0.001	----	19120	----	

SN - Software-calculated S/N ratio outside criteria due to non-target peaks or drift in noise calculation window. Analyst review of noise levels (excluding non-target peaks) in chromatogram indicates S/N ratio meets criteria.

Insight Report
Ion Ratio Confirmation
Printed 9/9/2021 16:29:39

210909_010

Sample ID: PFC ICAL @ 0.50ppb
Date Acquired: 9/9/2021 2:15:56 PM
Acquired by: System Administrator
Data File: 210909_010
Vial: 3 | Inj. Volume: 15.0000uL | Tray: 0

Name	m/z	Ref 1 m/z	Area	Ref 1 Measured	Ref 1 Actual Ratio	Ref 1 Set Ratio	Comment 1	Flag ID
13C7-PFUnDA_IS	570.00>525.00	----	5042624	----	----	----		
PFBS_1	299.00>80.00	298.80>99.00	75561	37643	49.82	49.34	24.67-74.01	
PFBS-13C	301.80>80.00	----	533476	----	----	----	0-0	
PFBS-13C_IS	301.80>80.00	----	533476	----	----	----	0-0	
PFPeS	349.00>99.00	349.00>79.95	33770	53055	157.11	151.30	75.65 -226.95	
PFHxS_1	399.00>80.00	399.00>99.00	53692	35804	66.68	62.92	31.46-94.38	
PFHxS-18O	402.70>84.05	----	380041	----	----	----	0-0	
PFHxS-18O_IS	402.70>84.05	----	380041	----	----	----	0-0	
PFHpS_1	449.00>80.15	449.00>99.20	62055	25616	41.28	40.53	20.26-60.79	
PFOS_1	499.00>80.00	499.00>99.00	45976	31997	69.60	73.81	36.91 -110.72	
PFOS-13C	502.80>80.05	----	548075	----	----	----	0-0	
PFOS-13C_IS	502.80>80.05	----	548075	----	----	----	0-0	
PFNS	549.00>99.00	549.00>79.95	31192	53077	170.16	160.25	80.13 -240.38	
PFDS_1	599.00>79.90	599.00>99.10	53401	42632	79.83	72.12	36.06 -108.19	
PFBA	213.00>169.10	----	177649	----	----	----		
PFBA-13C	216.90>172.15	----	1890215	----	----	----		
PFBA-13C_IS	216.90>172.15	----	1890215	----	----	----		
PFPeA	263.05>219.10	----	330764	----	----	----		
PFPeA-13C	267.90>223.00	----	1075253	----	----	----	0-0	
PFPeA-13C_IS	267.90>223.00	----	1075253	----	----	----	0-0	
PFHxA	313.00>269.00	313.00>119.10	358404	18407	5.14	4.40	2.2-6.61	
PFHxA-13C	314.90>270.10	----	3074856	----	----	----	0-0	
PFHxA-13C_IS	314.90>270.10	----	3074856	----	----	----	0-0	
PFHpA	362.90>319.00	362.90>169.00	303886	75648	24.89	24.40	12.2-36.6	
PFHpA-13C	366.90>322.10	----	2823689	----	----	----	0-0	
PFHpA-13C_IS	366.90>322.10	----	2823689	----	----	----	0-0	
PFOA	413.00>369.00	413.00>169.10	474647	150581	31.73	31.89	15.94-47.83	
PFOA-13C	416.80>372.05	----	3904792	----	----	----	0-0	
PFOA-13C_IS	416.80>372.05	----	3904792	----	----	----	0-0	
PFNA	463.00>418.90	463.00>219.00	325691	78908	24.23	23.25	11.63-34.88	
PFNA-13C	467.80>423.00	----	3403188	----	----	----	0-0	
PFNA-13C_IS	467.80>423.00	----	3403188	----	----	----	0-0	
PFDA	513.00>468.80	513.00>219.10	303495	65286	21.51	20.24	10.12-30.36	
PFDA-13C	514.80>469.95	----	2368348	----	----	----	0-0	
PFDA-13C_IS	514.80>469.95	----	2368348	----	----	----	0-0	
PFUnA	563.00>518.90	563.00>219.00	373472	54211	14.52	12.46	6.23-18.69	
PFUnA-13C	564.80>519.95	----	3508077	----	----	----	0-0	
PFUnA-13C_IS	564.80>519.95	----	3508077	----	----	----	0-0	
PFDoA	613.05>569.00	613.05>169.00	331480	57082	17.22	16.50	8.25-24.76	
PFDoA-13C	614.80>569.95	----	3723126	----	----	----	0-0	
PFDoA-13C_IS	614.80>569.95	----	3723126	----	----	----	0-0	
PFTrDA	663.00>618.90	662.90>169.00	378092	60350	15.96	15.29	7.65-22.94	
PFTeDA	713.00>669.00	713.00>169.10	398990	69417	17.40	17.47	8.73-26.2	
PFTeDA-13C	714.70>669.90	----	3815174	----	----	----	0-0	
PFTeDA-13C_IS	714.70>669.90	----	3815174	----	----	----	0-0	
FOSA	498.20>78.00	498.20>64.10	178226	8539	4.79	5.19	2.6-7.79	
FOSA-13C	506.00>78.05	----	1580520	----	----	----	0-0	

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Comment 1 field specifies acceptance range for Ref 1 ratio.
IRr - Ion ratio outside criteria. Exceedances for results above the MDL to be "K" flagged in the analytical report.

Insight Report
Ion Ratio Confirmation
Printed 9/9/2021 16:29:39

210909_010 (continued)

(Table continued from previous page)

Name	m/z	Ref 1 m/z	Area	Ref 1 Measured	Ref 1 Actual Ratio	Ref 1 Set Ratio	Comment 1	Flag ID
FOSA-13C_IS	506.00>78.05	----	1580520	----	----	----	0-0	
N-MeFOSA	512.00>169.10	512.00>219.00	63012	43596	69.19	69.94	34.97 -104.91	
N-MeFOSA-d3	514.90>168.90	----	340717	----	----	----	0-0	
N-MeFOSA-d3_IS	514.90>168.90	----	340717	----	----	----	0-0	
N-EtFOSA	526.90>169.10	526.90>219.00	11628	7816	67.22	66.52	33.26-99.77	
N-EtFOSA-d9	530.90>169.15	----	406165	----	----	----	0-0	
N-EtFOSA-d9_IS	530.90>169.15	----	406165	----	----	----	0-0	
N-MeFOSE	616.00>59.00	----	93101	----	----	----		
N-MeFOSE-d7	622.70>59.10	----	541440	----	----	----		
N-MeFOSE-d7_IS	622.70>59.10	----	541440	----	----	----		
N-EtFOSE	630.00>58.90	----	83859	----	----	----		
N-EtFOSE-d9	638.70>59.10	----	500036	----	----	----	0-0	
N-EtFOSE-d9_IS	638.70>59.10	----	500036	----	----	----	0-0	
N-MeFOSAA	570.20>419.00	570.20>512.00	46505	18545	39.88	39.56	19.78-59.34	
N-MeFOSAA-d3	572.80>419.05	----	623017	----	----	----	0-0	
N-MeFOSAA-d3_IS	572.80>419.05	----	623017	----	----	----	0-0	
N-EtFOSAA	584.20>418.95	584.20>526.10	33327	30580	91.76	84.54	42.27 -126.81	
N-EtFOSAA-d5	588.80>419.00	----	532691	----	----	----	0-0	
N-EtFOSAA-d5_IS	588.80>419.00	----	532691	----	----	----	0-0	
4_2-FTS_1	327.00>307.05	327.00>81.10	50874	18714	36.79	34.12	17.06-51.19	
4_2-FTS-13C	328.80>309.05	----	589359	----	----	----	0-0	
4_2-FTS-13C_IS	328.80>309.05	----	589359	----	----	----	0-0	
6_2-FTS_1	427.00>407.00	427.00>80.90	64784	24623	38.01	37.36	18.68-56.04	
6_2-FTS-13C	428.90>409.00	----	530731	----	----	----	0-0	
6_2-FTS-13C_IS	428.90>409.00	----	530731	----	----	----	0-0	
8_2-FTS_1	527.10>506.90	527.20>487.00	33875	3503	10.34	10.63	5.32-15.95	
8_2-FTS-13C	528.80>509.00	----	380112	----	----	----	0-0	
8_2-FTS-13C_IS	528.80>509.00	----	380112	----	----	----	0-0	
10_2-FtS_1	627.00>606.95	627.00>81.25	26237	5832	22.23	21.61	10.8-32.41	
HPFO_DA	329.00>169.00	329.00>285.10	48288	53494	110.78	106.46	53.23 -159.68	
HFPO_DA-13C	332.00>286.80	----	516895	----	----	----		
HFPO_DA-13C_IS	332.00>286.80	----	516895	----	----	----		

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Comment 1 field specifies acceptance range for Ref 1 ratio.
IRr - Ion ratio outside criteria. Exceedances for results above the MDL to be "K" flagged in the analytical report.

Insight Report
Quantitation/Integration
Printed 9/9/2021 16:33:46

210909_010

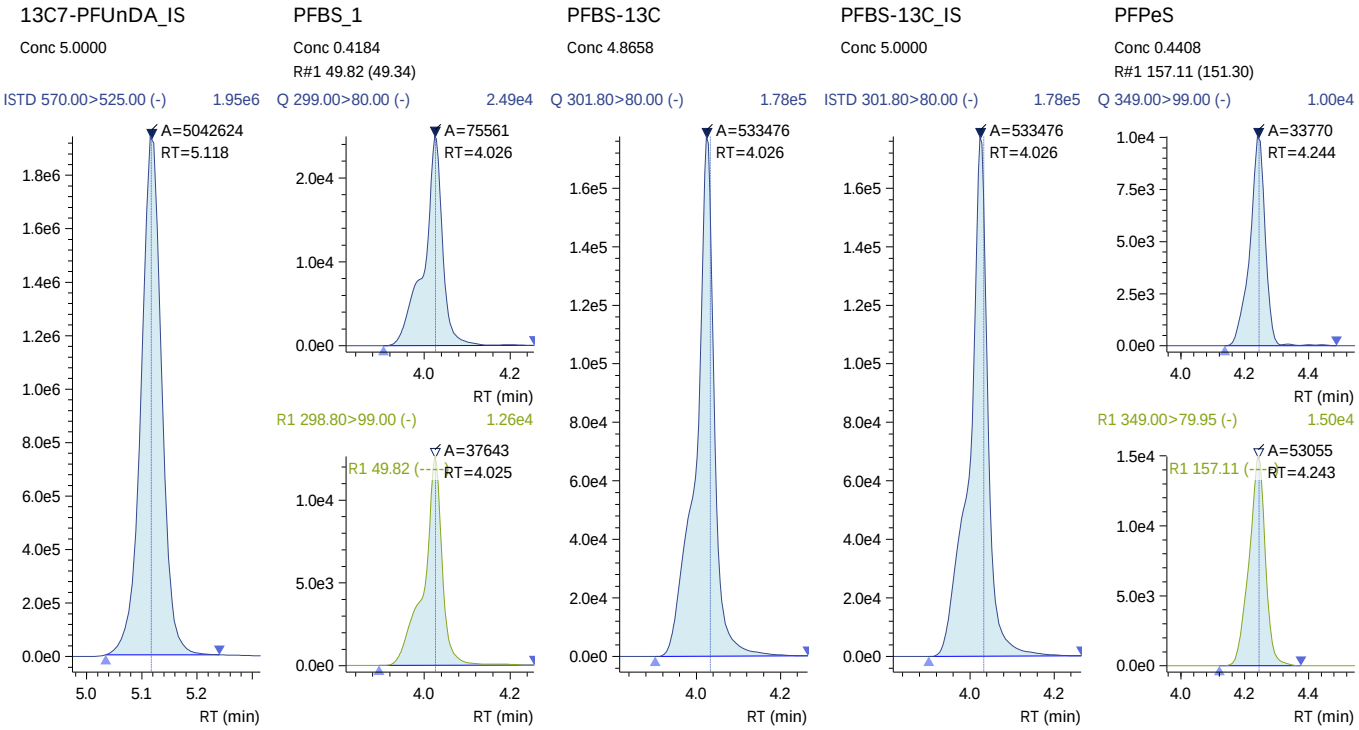
Sample ID: PFC ICAL @ 0.50ppb
Date Acquired: 9/9/2021 2:15:56 PM
Acquired by: System Administrator
Data File: 210909_010
Vial: 3 | Inj. Volume: 15.0000uL | Tray: 0

Name	Mode ID	Found RT	Area	ISTD Area	ISTD Name	Std. Conc.	Conc.	Unit
13C7-PFUnDA_IS	Auto	5.118	5042624	5042624	----	5.0000	5.0000	ng/mL
PFBS_1	Auto	4.026	75561	533476	PFBS-13C_IS	0.4437	0.4184	ng/mL
PFBS-13C	Auto	4.026	533476	5042624	13C7-PFUnDA_IS	5.0000	4.8658	ng/mL
PFBS-13C_IS	Auto	4.026	533476	533476	----	5.0000	5.0000	ng/mL
PFPeS	Auto	4.244	33770	533476	PFBS-13C_IS	0.4705	0.4408	ng/mL
PFHxS_1	Auto	4.402	53692	380041	PFHxS-18O_IS	0.4565	0.4192	ng/mL
PFHxS-18O	Auto	4.408	380041	5042624	13C7-PFUnDA_IS	5.0000	4.8599	ng/mL
PFHxS-18O_IS	Auto	4.408	380041	380041	----	5.0000	5.0000	ng/mL
PFHpS_1	Auto	4.569	62055	380041	PFHxS-18O_IS	0.4767	0.4752	ng/mL
PFOS_1	Auto	4.738	45976	548075	PFOS-13C_IS	0.4646	0.4482	ng/mL
PFOS-13C	Auto	4.737	548075	5042624	13C7-PFUnDA_IS	5.0000	5.1287	ng/mL
PFOS-13C_IS	Auto	4.737	548075	548075	----	5.0000	5.0000	ng/mL
PFNS	Auto	4.914	31192	548075	PFOS-13C_IS	0.4808	0.4187	ng/mL
PFDS_1	Auto	5.097	53401	548075	PFOS-13C_IS	0.4823	0.4138	ng/mL
PFBA	Auto	3.410	177649	1890215	PFBA-13C_IS	0.5000	0.4377	ng/mL
PFBA-13C	Auto	3.409	1890215	5042624	13C7-PFUnDA_IS	5.0000	4.8056	ng/mL
PFBA-13C_IS	Auto	3.409	1890215	1890215	----	5.0000	5.0000	ng/mL
PFPeA	Auto	3.973	330764	1075253	PFPeA-13C_IS	0.5000	0.4713	ng/mL
PFPeA-13C	Auto	3.972	1075253	5042624	13C7-PFUnDA_IS	5.0000	4.7833	ng/mL
PFPeA-13C_IS	Auto	3.972	1075253	1075253	----	5.0000	5.0000	ng/mL
PFHxA	Auto	4.228	358404	3074856	PFHxA-13C_IS	0.5000	0.4461	ng/mL
PFHxA-13C	Auto	4.227	3074856	5042624	13C7-PFUnDA_IS	5.0000	4.8206	ng/mL
PFHxA-13C_IS	Auto	4.227	3074856	3074856	----	5.0000	5.0000	ng/mL
PFHpA	M	4.407	303886	2823689	PFHpA-13C_IS	0.5000	0.4461	ng/mL
PFHpA-13C	Auto	4.408	2823689	5042624	13C7-PFUnDA_IS	5.0000	4.8813	ng/mL
PFHpA-13C_IS	Auto	4.408	2823689	2823689	----	5.0000	5.0000	ng/mL
PFOA	Auto	4.577	474647	3904792	PFOA-13C_IS	0.5000	0.4433	ng/mL
PFOA-13C	Auto	4.577	3904792	5042624	13C7-PFUnDA_IS	5.0000	5.0492	ng/mL
PFOA-13C_IS	Auto	4.577	3904792	3904792	----	5.0000	5.0000	ng/mL
PFNA	Auto	4.751	325691	3403188	PFNA-13C_IS	0.5000	0.4628	ng/mL
PFNA-13C	Auto	4.750	3403188	5042624	13C7-PFUnDA_IS	5.0000	5.1077	ng/mL
PFNA-13C_IS	Auto	4.750	3403188	3403188	----	5.0000	5.0000	ng/mL
PFDA	Auto	4.933	303495	2368348	PFDA-13C_IS	0.5000	0.4546	ng/mL
PFDA-13C	Auto	4.933	2368348	5042624	13C7-PFUnDA_IS	5.0000	5.1125	ng/mL
PFDA-13C_IS	Auto	4.933	2368348	2368348	----	5.0000	5.0000	ng/mL
PFUnA	Auto	5.118	373472	3508077	PFUnA-13C_IS	0.5000	0.4810	ng/mL
PFUnA-13C	Auto	5.118	3508077	5042624	13C7-PFUnDA_IS	5.0000	5.0224	ng/mL
PFUnA-13C_IS	Auto	5.118	3508077	3508077	----	5.0000	5.0000	ng/mL
PFDoA	Auto	5.298	331480	3723126	PFDoA-13C_IS	0.5000	0.4999	ng/mL
PFDoA-13C	Auto	5.297	3723126	5042624	13C7-PFUnDA_IS	5.0000	4.8325	ng/mL
PFDoA-13C_IS	Auto	5.297	3723126	3723126	----	5.0000	5.0000	ng/mL
PFTrDA	Auto	5.461	378092	3815174	PFTeDA-13C_IS	0.5000	0.4854	ng/mL
PFTeDA	Auto	5.608	398990	3815174	PFTeDA-13C_IS	0.5000	0.4723	ng/mL
PFTeDA-13C	Auto	5.608	3815174	5042624	13C7-PFUnDA_IS	5.0000	4.9354	ng/mL
PFTeDA-13C_IS	Auto	5.608	3815174	3815174	----	5.0000	5.0000	ng/mL
FOSA	Auto	5.222	178226	1580520	FOSA-13C_IS	0.5000	0.4702	ng/mL
FOSA-13C	Auto	5.222	1580520	5042624	13C7-PFUnDA_IS	5.0000	4.9278	ng/mL
FOSA-13C_IS	Auto	5.222	1580520	1580520	----	5.0000	5.0000	ng/mL
N-MeFOSA	M	5.609	63012	340717	N-MeFOSA-d3_IS	0.5000	0.4858	ng/mL
N-MeFOSA-d3	Auto	5.606	340717	5042624	13C7-PFUnDA_IS	5.0000	4.7344	ng/mL
N-MeFOSA-d3_IS	Auto	5.606	340717	340717	----	5.0000	5.0000	ng/mL
N-EtFOSA	M	5.734	11628	406165	N-EtFOSA-d9_IS	0.5000	0.4724	ng/mL
N-EtFOSA-d9	Auto	5.728	406165	5042624	13C7-PFUnDA_IS	5.0000	4.8446	ng/mL
N-EtFOSA-d9_IS	Auto	5.728	406165	406165	----	5.0000	5.0000	ng/mL

210909_010 (continued)

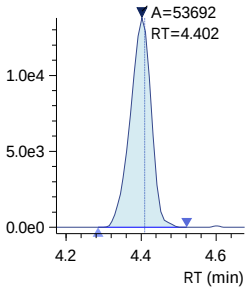
(Table continued from previous page)

Name	Mode ID	Found RT	Area	ISTD Area	ISTD Name	Std. Conc.	Conc.	Unit
N-MeFOSE	Auto	5.590	93101	541440	N-MeFOSE-d7_IS	0.5000	0.4784	ng/mL
N-MeFOSE-d7	Auto	5.582	541440	5042624	13C7-PFUnDA_IS	5.0000	4.8859	ng/mL
N-MeFOSE-d7_IS	Auto	5.582	541440	541440	----	5.0000	5.0000	ng/mL
N-EtFOSE	M	5.711	83859	500036	N-EtFOSE-d9_IS	0.5000	0.4839	ng/mL
N-EtFOSE-d9	Auto	5.701	500036	5042624	13C7-PFUnDA_IS	5.0000	4.7649	ng/mL
N-EtFOSE-d9_IS	Auto	5.701	500036	500036	----	5.0000	5.0000	ng/mL
N-MeFOSAA	Auto	5.031	46505	623017	N-MeFOSAA-d3_IS	0.5000	0.4556	ng/mL
N-MeFOSAA-d3	Auto	5.031	623017	5042624	13C7-PFUnDA_IS	5.0000	4.8937	ng/mL
N-MeFOSAA-d3_IS	Auto	5.031	623017	623017	----	5.0000	5.0000	ng/mL
N-EtFOSAA	Auto	5.133	33327	532691	N-EtFOSAA-d5_IS	0.5000	0.4370	ng/mL
N-EtFOSAA-d5	Auto	5.129	532691	5042624	13C7-PFUnDA_IS	5.0000	4.9482	ng/mL
N-EtFOSAA-d5_IS	Auto	5.129	532691	532691	----	5.0000	5.0000	ng/mL
4_2-FTS_1	Auto	4.202	50874	589359	4_2-FTS-13C_IS	0.4686	0.4781	ng/mL
4_2-FTS-13C	Auto	4.202	589359	5042624	13C7-PFUnDA_IS	5.0000	4.9394	ng/mL
4_2-FTS-13C_IS	Auto	4.202	589359	589359	----	5.0000	5.0000	ng/mL
6_2-FTS_1	M	4.565	64784	530731	6_2-FTS-13C_IS	0.4756	0.4678	ng/mL
6_2-FTS-13C	Auto	4.567	530731	5042624	13C7-PFUnDA_IS	5.0000	5.2646	ng/mL
6_2-FTS-13C_IS	Auto	4.567	530731	530731	----	5.0000	5.0000	ng/mL
8_2-FTS_1	Auto	4.931	33875	380112	8_2-FTS-13C_IS	0.4800	0.4665	ng/mL
8_2-FTS-13C	Auto	4.932	380112	5042624	13C7-PFUnDA_IS	5.0000	5.1868	ng/mL
8_2-FTS-13C_IS	Auto	4.932	380112	380112	----	5.0000	5.0000	ng/mL
10_2-FtS_1	Auto	5.304	26237	380112	8_2-FTS-13C_IS	0.4831	0.4450	ng/mL
HPFO_DA	Auto	4.295	48288	516895	HFPO_DA-13C_IS	0.5000	0.4673	ng/mL
HFPO_DA-13C	Auto	4.295	516895	5042624	13C7-PFUnDA_IS	5.0000	4.7836	ng/mL
HFPO_DA-13C_IS	Auto	4.295	516895	516895	----	5.0000	5.0000	ng/mL

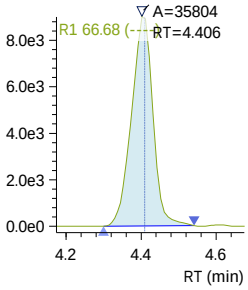


210909_010 (continued)

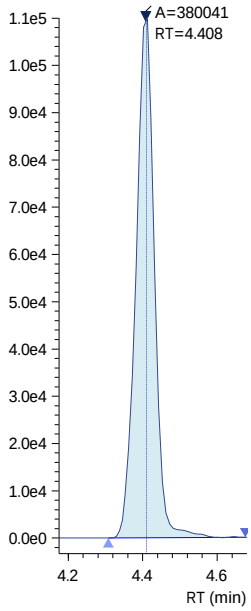
PFHxS_1
Conc 0.4192
R#1 66.68 (62.92)
Q 399.00>80.00 (-) 1.38e4



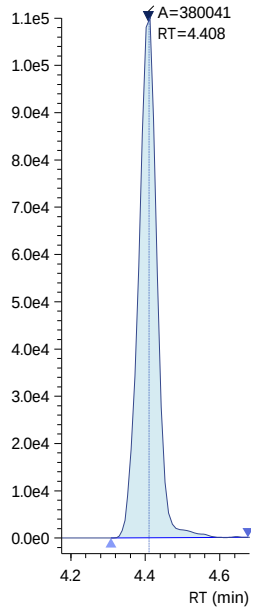
R1 399.00>99.00 (-) 9.00e3



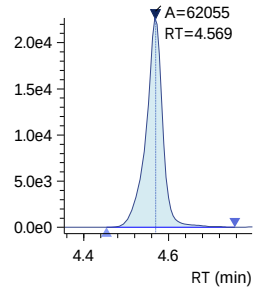
PFHxS-18O
Conc 4.8599
Q 402.70>84.05 (-) 1.10e5



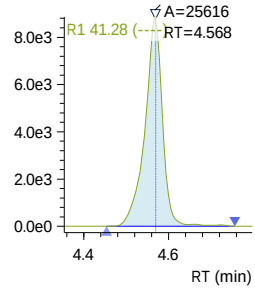
PFHxS-18O_IS
Conc 5.0000
ISTD 402.70>84.05 (-) 1.10e5



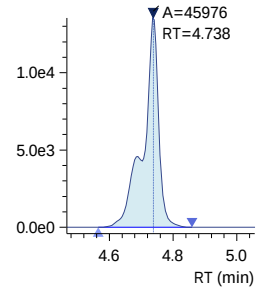
PFHpS_1
Conc 0.4752
R#1 41.28 (40.53)
Q 449.00>80.15 (-) 2.27e4



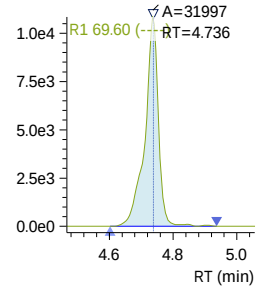
R1 449.00>99.20 (-) 8.86e3



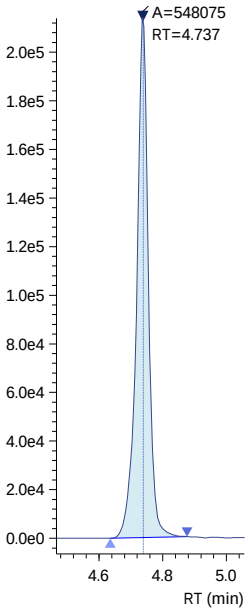
PFOS_1
Conc 0.4482
R#1 69.60 (73.81)
Q 499.00>80.00 (-) 1.35e4



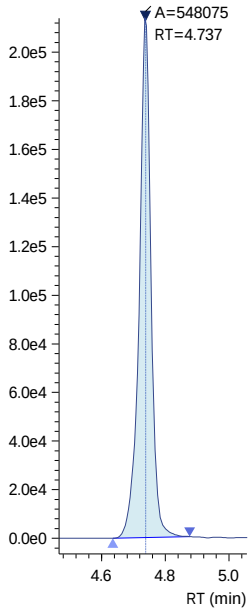
R1 499.00>99.00 (-) 1.08e4



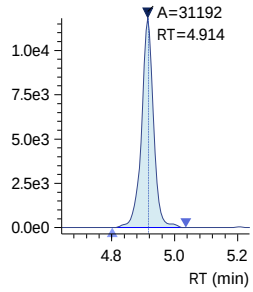
PFOS-13C
Conc 5.1287
Q 502.80>80.05 (-) 2.14e5



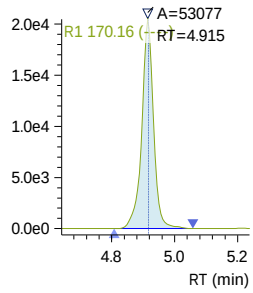
PFOS-13C_IS
Conc 5.0000
ISTD 502.80>80.05 (-) 2.14e5



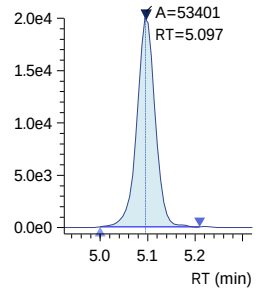
PFNS
Conc 0.4187
R#1 170.16 (160.25)
Q 549.00>99.00 (-) 1.18e4



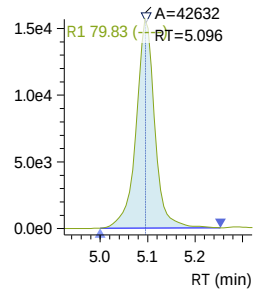
R1 549.00>79.95 (-) 2.05e4



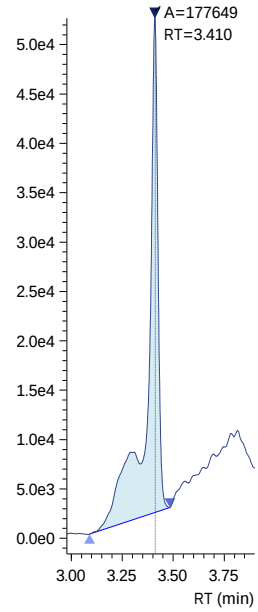
PFDS_1
Conc 0.4138
R#1 79.83 (72.12)
Q 599.00>79.90 (-) 2.00e4



R1 599.00>99.10 (-) 1.57e4

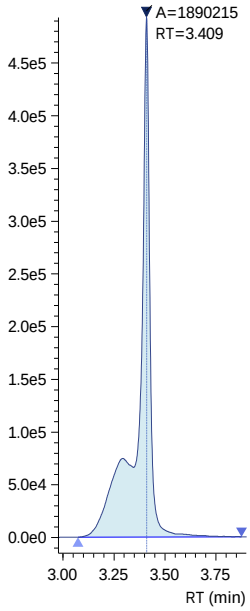


PFBA
Conc 0.4377
Q 213.00>169.10 (-) 5.27e4

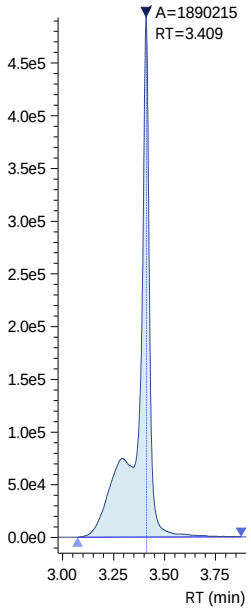


210909_010 (continued)

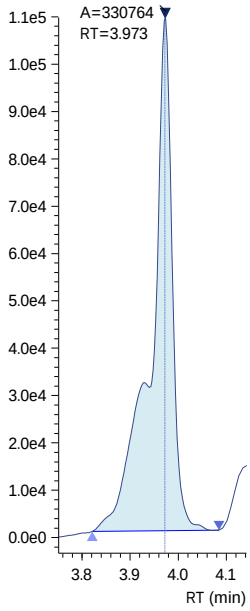
PFBA-13C
Conc 4.8056
Q 216.90>172.15 (-) 4.93e5



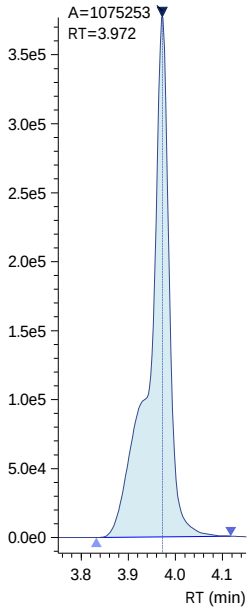
PFBA-13C_IS
Conc 5.0000
ISTD 216.90>172.15 (-) 4.93e5



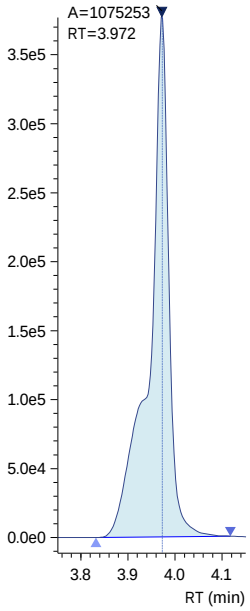
PFPeA
Conc 0.4713
Q 263.05>219.10 (-) 1.10e5



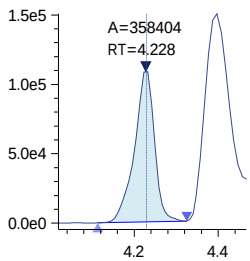
PFPeA-13C
Conc 4.7833
Q 267.90>223.00 (-) 3.77e5



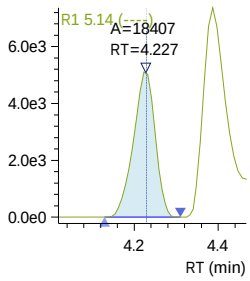
PFPeA-13C_IS
Conc 5.0000
ISTD 267.90>223.00 (-) 3.77e5



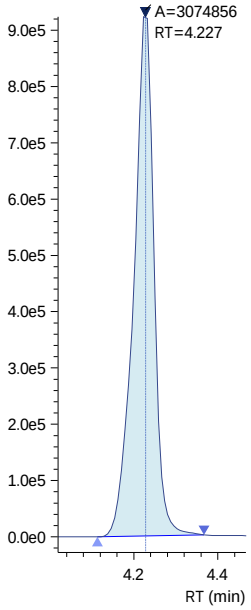
PFHxA
Conc 0.4461
R#1 5.14 (4.40)
Q 313.00>269.00 (-) 1.51e5



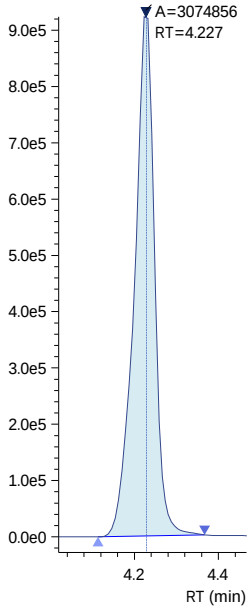
R1 313.00>119.10 (-) 7.37e3



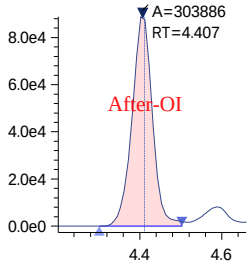
PFHxA-13C
Conc 4.8206
Q 314.90>270.10 (-) 9.24e5



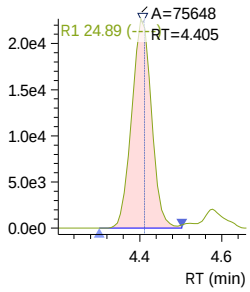
PFHxA-13C_IS
Conc 5.0000
ISTD 314.90>270.10 (-) 9.24e5



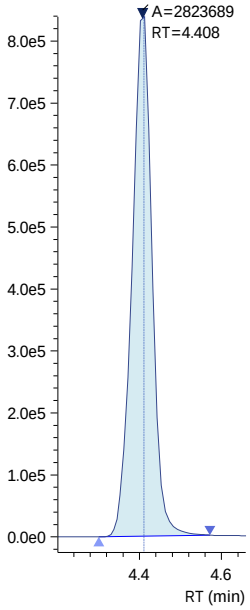
PFHpA
Conc 0.4461
R#1 24.89 (24.40)
Q 362.90>319.00 (-) 8.88e4



R1 362.90>169.00 (-) 2.27e4

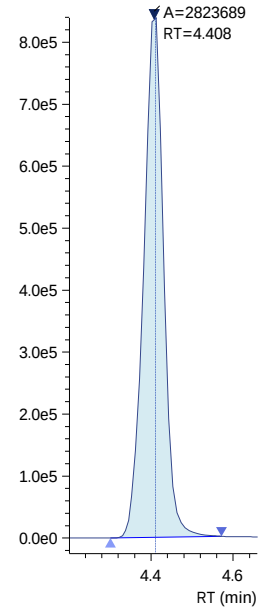


PFHpA-13C
Conc 4.8813
Q 366.90>322.10 (-) 8.39e5

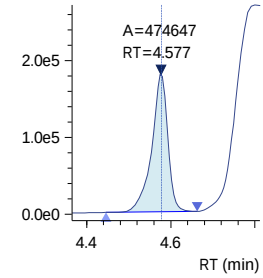


210909_010 (continued)

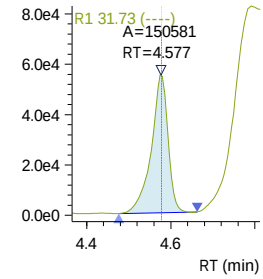
PFHpA-13C_IS
Conc 5.0000
ISTD 366.90>322.10 (-) 8.39e5



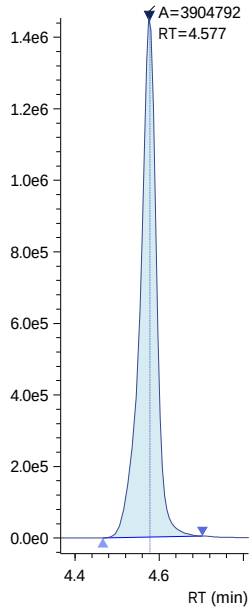
PFOA
Conc 0.4433
R#1 31.73 (31.89)
Q 413.00>369.00 (-) 2.72e5



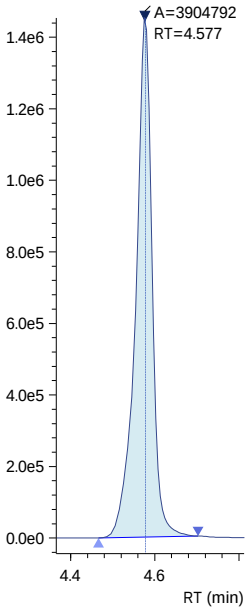
R1 413.00>169.10 (-) 8.32e4



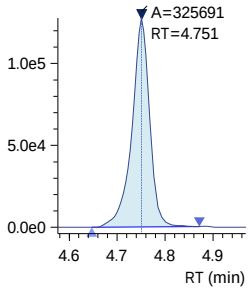
PFOA-13C
Conc 5.0492
Q 416.80>372.05 (-) 1.45e6



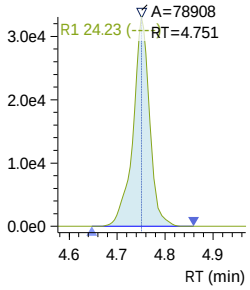
PFOA-13C_IS
Conc 5.0000
ISTD 416.80>372.05 (-) 1.45e6



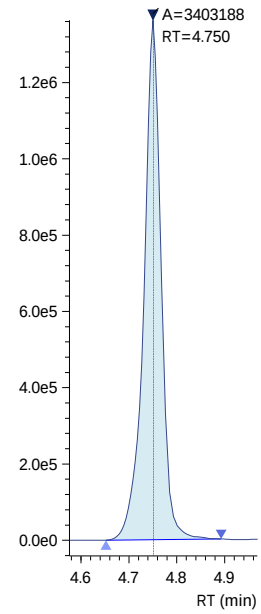
PFNA
Conc 0.4628
R#1 24.23 (23.25)
Q 463.00>418.90 (-) 1.28e5



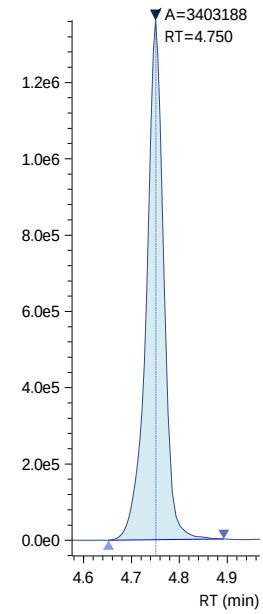
R1 463.00>219.00 (-) 3.31e4



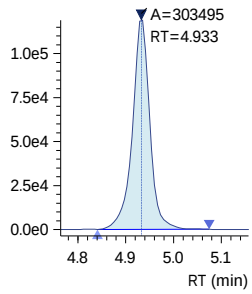
PFNA-13C
Conc 5.1077
Q 467.80>423.00 (-) 1.36e6



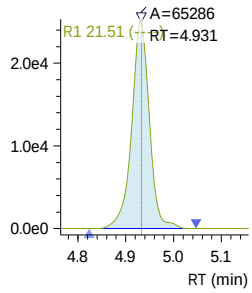
PFNA-13C_IS
Conc 5.0000
ISTD 467.80>423.00 (-) 1.36e6



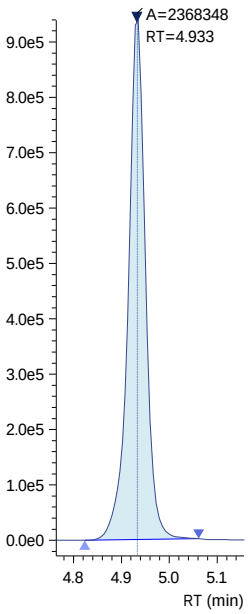
PFDA
Conc 0.4546
R#1 21.51 (20.24)
Q 513.00>468.80 (-) 1.19e5



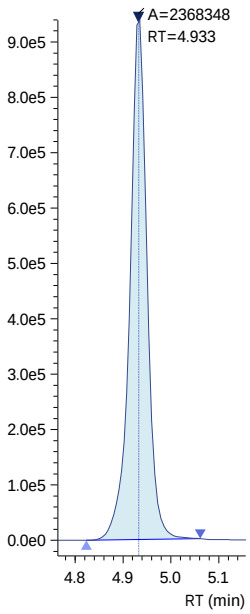
R1 513.00>219.10 (-) 2.53e4



PFDA-13C
Conc 5.1125
Q 514.80>469.95 (-) 9.39e5

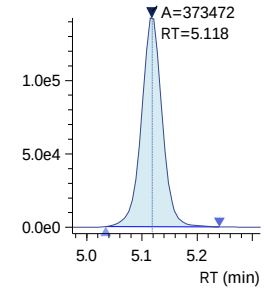


PFDA-13C_IS
Conc 5.0000
ISTD 514.80>469.95 (-) 9.39e5

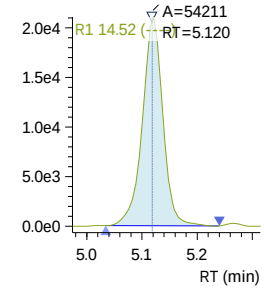


210909_010 (continued)

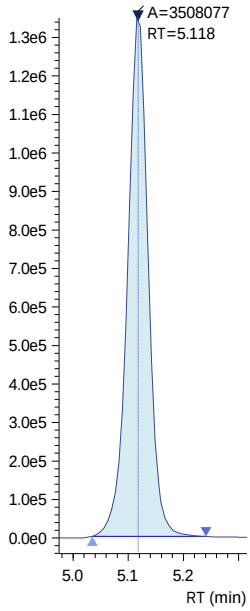
PFUnA
Conc 0.4810
R#1 14.52 (12.46)
Q 563.00>518.90 (-) 1.43e5



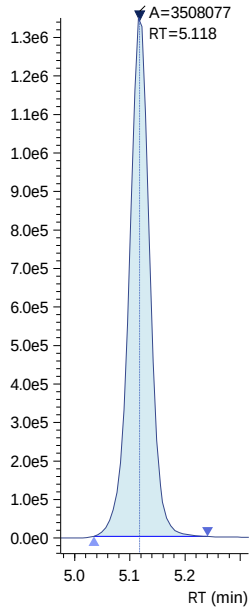
R1 563.00>219.00 (-) 2.11e4



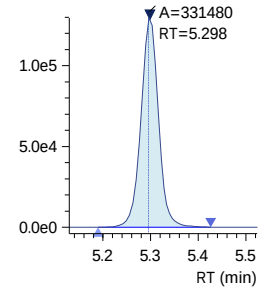
PFUnA-13C
Conc 5.0224
Q 564.80>519.95 (-) 1.35e6



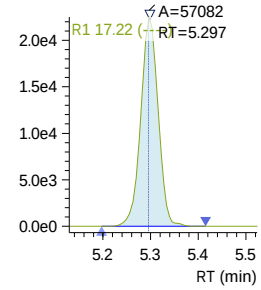
PFUnA-13C_IS
Conc 5.0000
ISTD 564.80>519.95 (-) 1.35e6



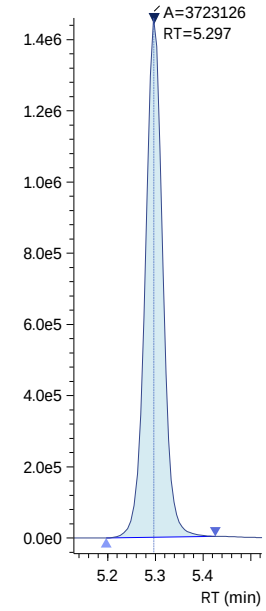
PFDoA
Conc 0.4999
R#1 17.22 (16.50)
Q 613.05>569.00 (-) 1.30e5



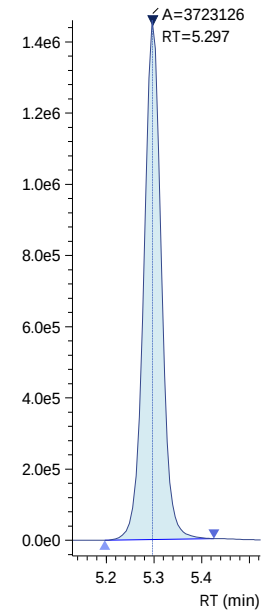
R1 613.05>169.00 (-) 2.25e4



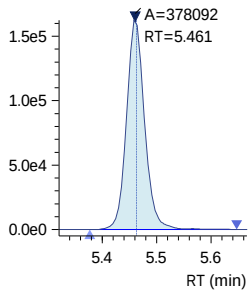
PFDoA-13C
Conc 4.8325
Q 614.80>569.95 (-) 1.46e6



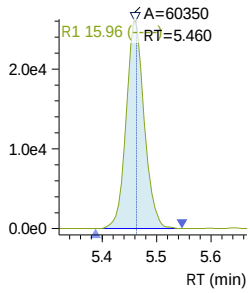
PFDoA-13C_IS
Conc 5.0000
ISTD 614.80>569.95 (-) 1.46e6



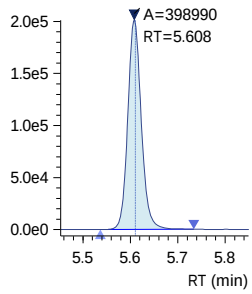
PFTrDA
Conc 0.4854
R#1 15.96 (15.29)
Q 663.00>618.90 (-) 1.62e5



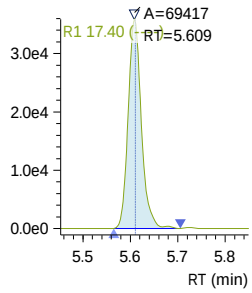
R1 662.90>169.00 (-) 2.62e4



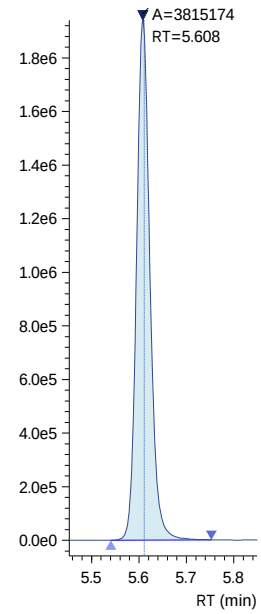
PFTeDA
Conc 0.4723
R#1 17.40 (17.47)
Q 713.00>669.00 (-) 2.01e5



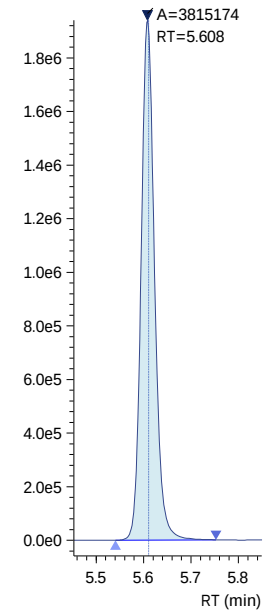
R1 713.00>169.10 (-) 3.59e4



PFTeDA-13C
Conc 4.9354
Q 714.70>669.90 (-) 1.94e6

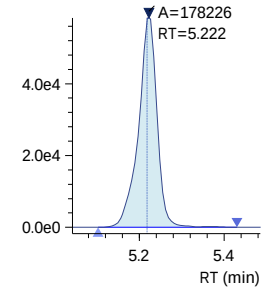


PFTeDA-13C_IS
Conc 5.0000
ISTD 714.70>669.90 (-) 1.94e6

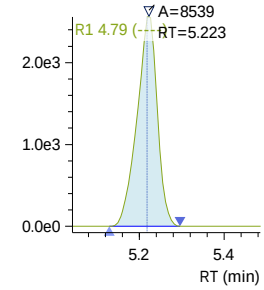


210909_010 (continued)

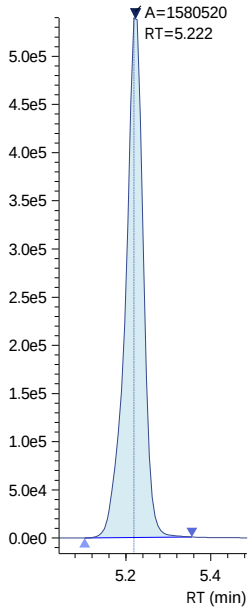
FOSA
Conc 0.4702
R#1 4.79 (5.19)
Q 498.20>78.00 (-) 5.83e4



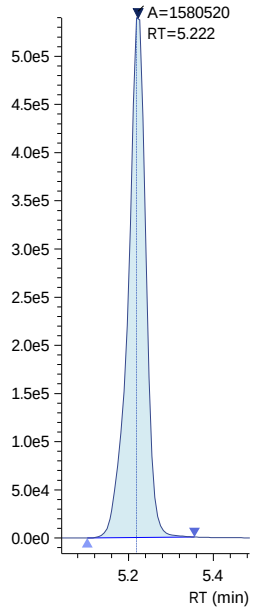
R1 498.20>64.10 (-) 2.56e3



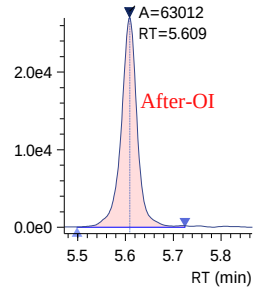
FOSA-13C
Conc 4.9278
Q 506.00>78.05 (-) 5.40e5



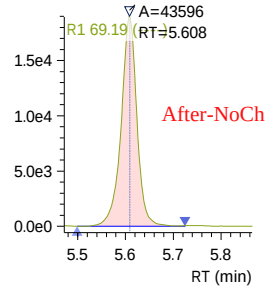
FOSA-13C_IS
Conc 5.0000
ISTD 506.00>78.05 (-) 5.40e5



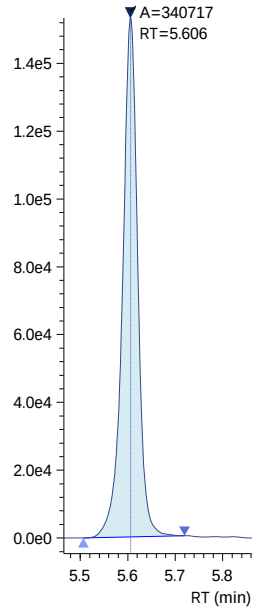
N-MeFOSA
Conc 0.4858
R#1 69.19 (69.94)
Q 512.00>169.10 (-) 2.70e4



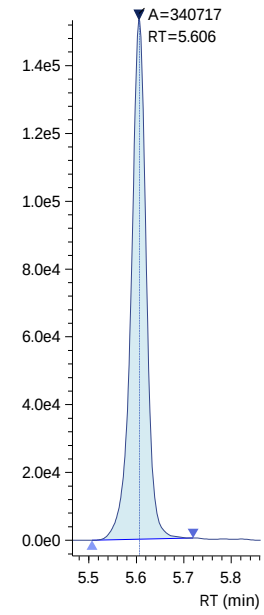
R1 512.00>219.00 (-) 1.89e4



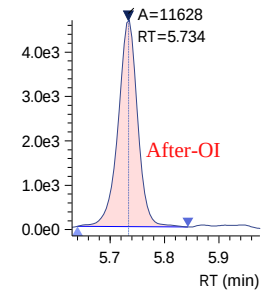
N-MeFOSA-d3
Conc 4.7344
Q 514.90>168.90 (-) 1.53e5



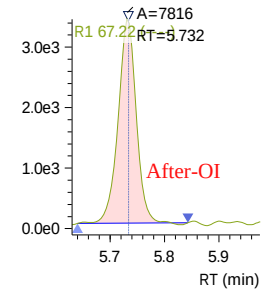
N-MeFOSA-d3_IS
Conc 5.0000
ISTD 514.90>168.90 (-) 1.53e5



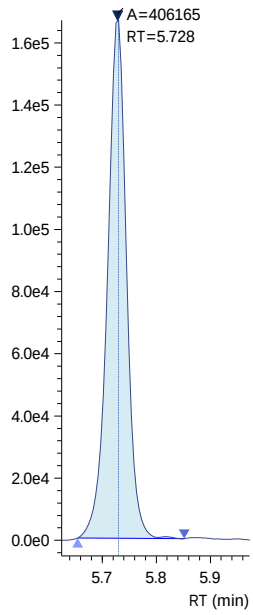
N-EtFOSA
Conc 0.4724
R#1 67.22 (66.52)
Q 526.90>169.10 (-) 4.72e3



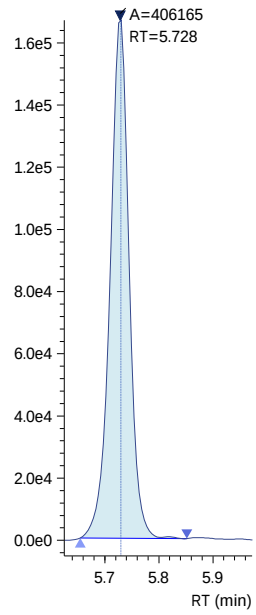
R1 526.90>219.00 (-) 3.46e3



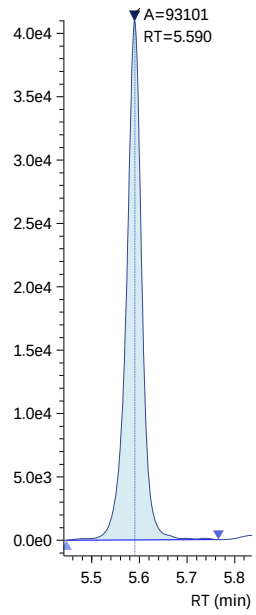
N-EtFOSA-d9
Conc 4.8446
Q 530.90>169.15 (-) 1.67e5



N-EtFOSA-d9_IS
Conc 5.0000
ISTD 530.90>169.15 (-) 1.67e5



N-MeFOSE
Conc 0.4784
Q 616.00>59.00 (-) 4.10e4

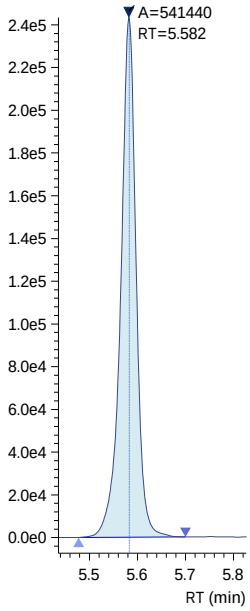


210909_010 (continued)

N-MeFOSE-d7

Conc 4.8859

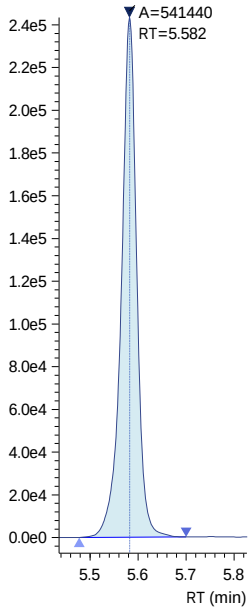
Q 622.70>59.10 (-) 2.43e5



N-MeFOSE-d7_IS

Conc 5.0000

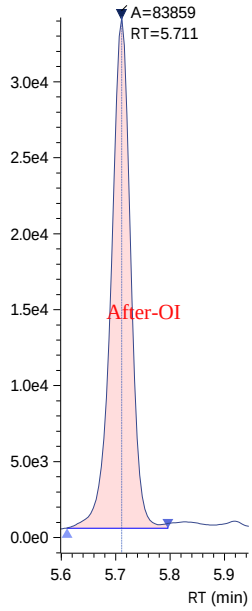
ISTD 622.70>59.10 (-) 2.43e5



N-EtFOSE

Conc 0.4839

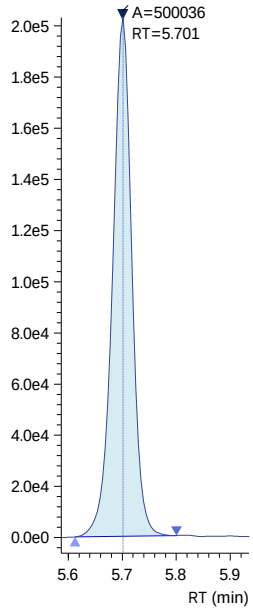
Q 630.00>58.90 (-) 3.42e4



N-EtFOSE-d9

Conc 4.7649

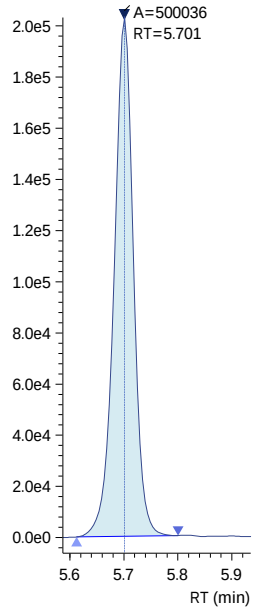
Q 638.70>59.10 (-) 2.03e5



N-EtFOSE-d9_IS

Conc 5.0000

ISTD 638.70>59.10 (-) 2.03e5

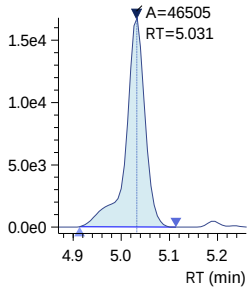


N-MeFOSAA

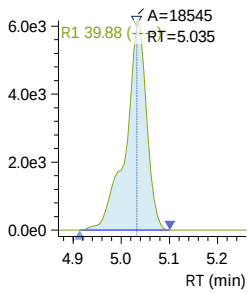
Conc 0.4556

R#1 39.88 (39.56)

Q 570.20>419.00 (-) 1.68e4



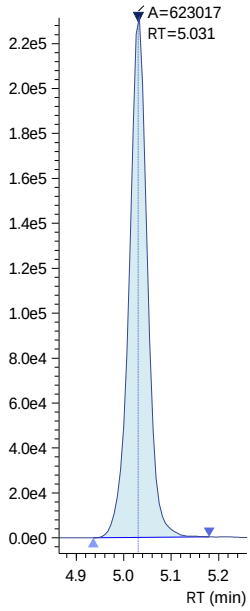
R1 570.20>512.00 (-) 6.16e3



N-MeFOSAA-d3

Conc 4.8937

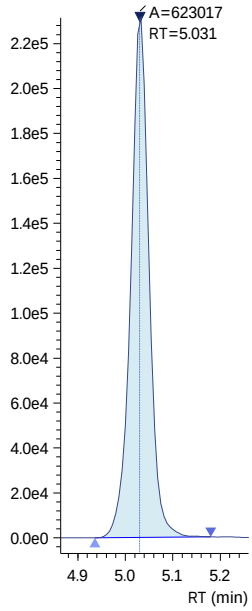
Q 572.80>419.05 (-) 2.31e5



N-MeFOSAA-d3_IS

Conc 5.0000

ISTD 572.80>419.05 (-) 2.31e5

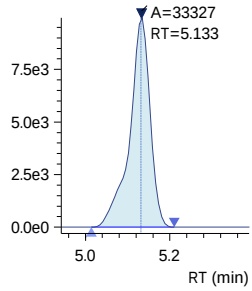


N-EtFOSAA

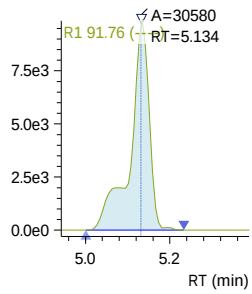
Conc 0.4370

R#1 91.76 (84.54)

Q 584.20>418.95 (-) 9.95e3



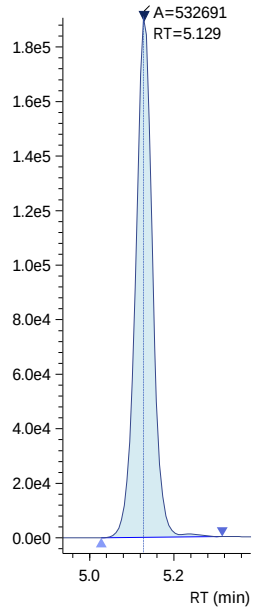
R1 584.20>526.10 (-) 9.85e3



N-EtFOSAA-d5

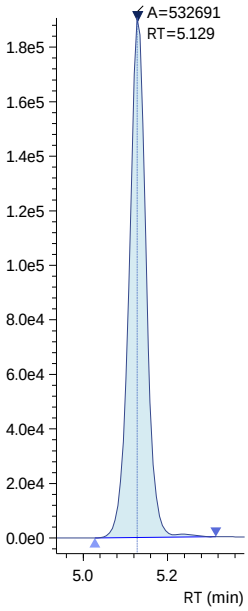
Conc 4.9482

Q 588.80>419.00 (-) 1.91e5

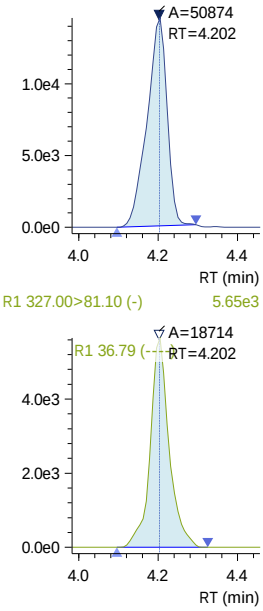


210909_010 (continued)

N-EtFOSAA-d5_IS
Conc 5.0000
ISTD 588.80>419.00 (-) 1.91e5

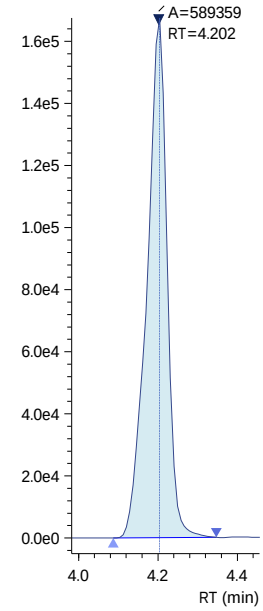


4_2-FTS_1
Conc 0.4781
R#1 36.79 (34.12)
Q 327.00>307.05 (-) 1.46e4

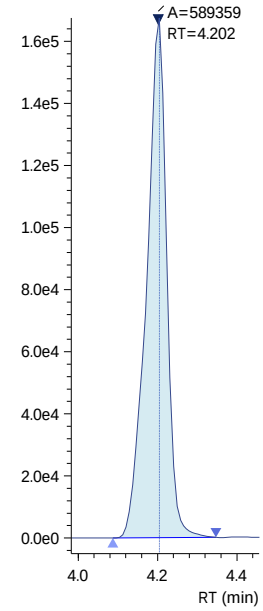


R1 327.00>81.10 (-) 5.65e3

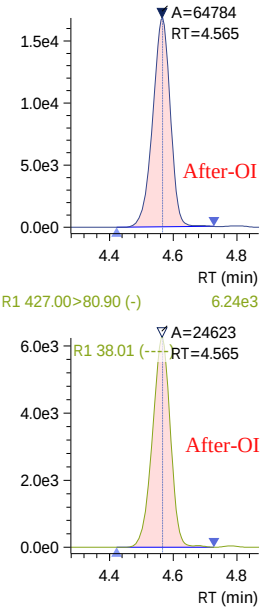
4_2-FTS-13C
Conc 4.9394
Q 328.80>309.05 (-) 1.68e5



4_2-FTS-13C_IS
Conc 5.0000
ISTD 328.80>309.05 (-) 1.68e5

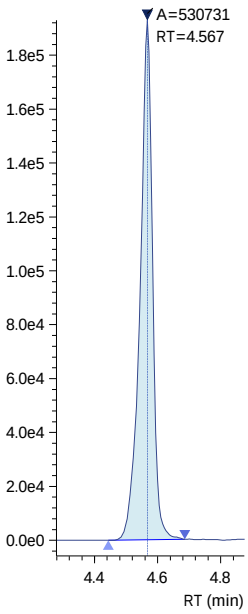


6_2-FTS_1
Conc 0.4678
R#1 38.01 (37.36)
Q 427.00>407.00 (-) 1.68e4

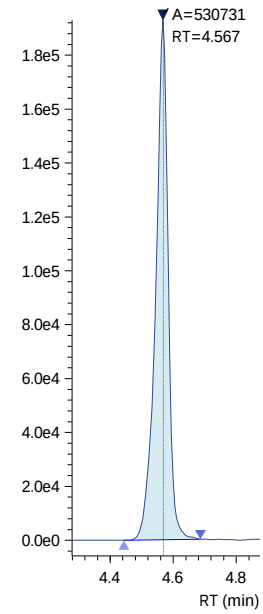


R1 427.00>80.90 (-) 6.24e3

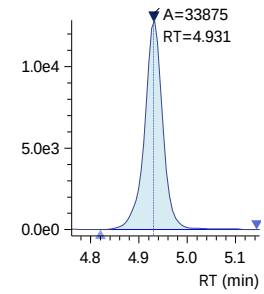
6_2-FTS-13C
Conc 5.2646
Q 428.90>409.00 (-) 1.93e5



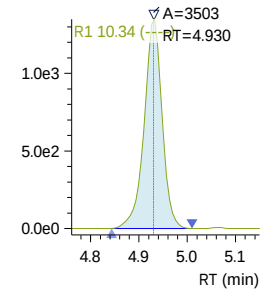
6_2-FTS-13C_IS
Conc 5.0000
ISTD 428.90>409.00 (-) 1.93e5



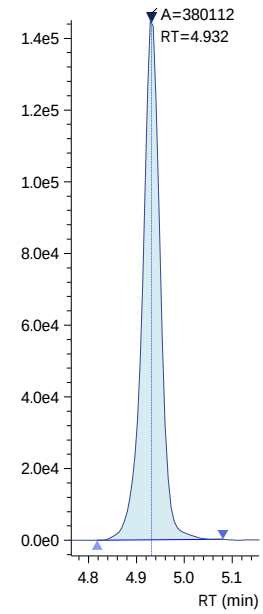
8_2-FTS_1
Conc 0.4665
R#1 10.34 (10.63)
Q 527.10>506.90 (-) 1.29e4



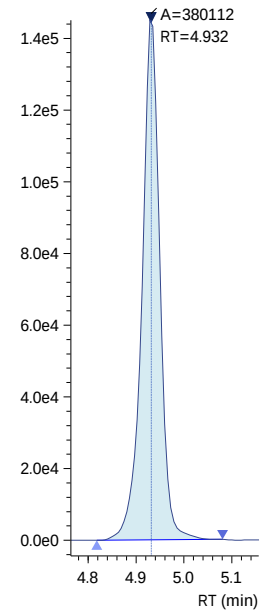
R1 527.20>487.00 (-) 1.35e3



8_2-FTS-13C
Conc 5.1868
Q 528.80>509.00 (-) 1.45e5

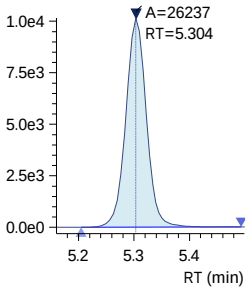


8_2-FTS-13C_IS
Conc 5.0000
ISTD 528.80>509.00 (-) 1.45e5

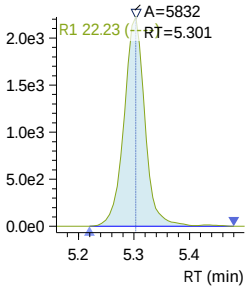


210909_010 (continued)

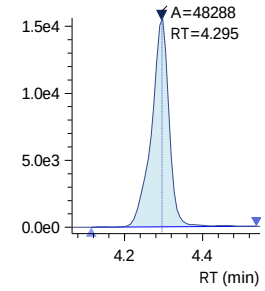
10_2-FtS_1
Conc 0.4450
R#1 22.23 (21.61)
Q 627.00>606.95 (-) 1.02e4



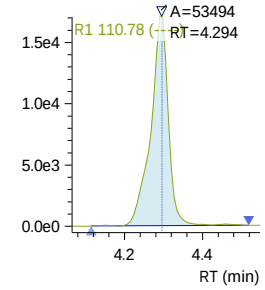
R1 627.00>81.25 (-) 2.22e3



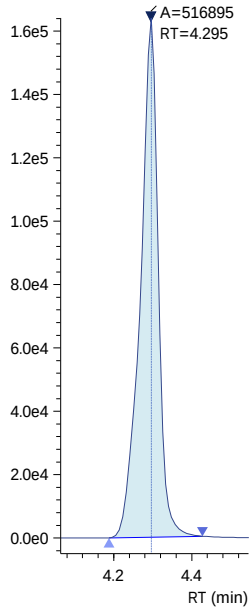
HPFO_DA
Conc 0.4673
R#1 110.78 (106.46)
Q 329.00>169.00 (-) 1.56e4



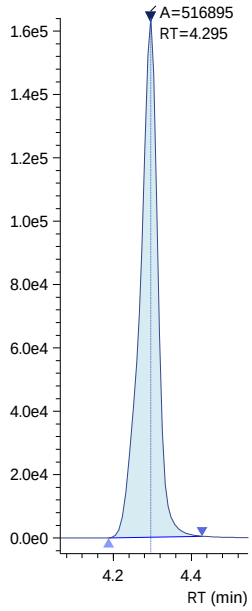
R1 329.00>285.10 (-) 1.71e4



HFPO_DA-13C
Conc 4.7836
Q 332.00>286.80 (-) 1.64e5



HFPO_DA-13C_IS
Conc 5.0000
ISTD 332.00>286.80 (-) 1.64e5



Insight Report
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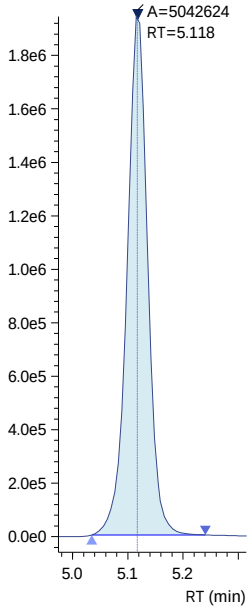
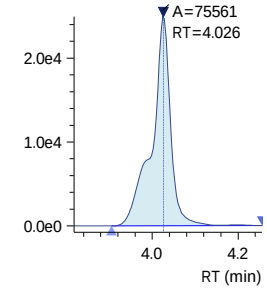
210909_010

Sample ID: PFC ICAL @ 0.50ppb
Date Acquired: 9/9/2021 2:15:56 PM
Acquired by: System Administrator
Data File: 210909_010
Vial: 3 | Inj. Volume: 15.0000uL | Tray: 0

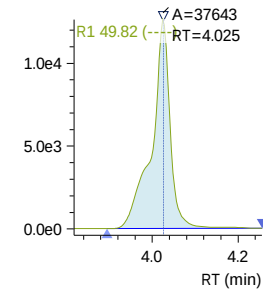
13C7-PFUnDA_IS
Conc 5.0000
ISTD 570.00>525.00 (-) 1.95e6



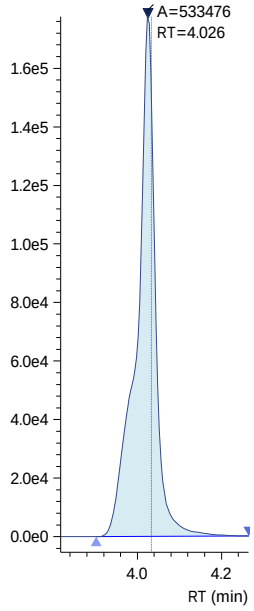
PFBS_1
Conc 0.4100
R#1 49.82 (46.55)
Q 299.00>80.00 (-) 2.49e4



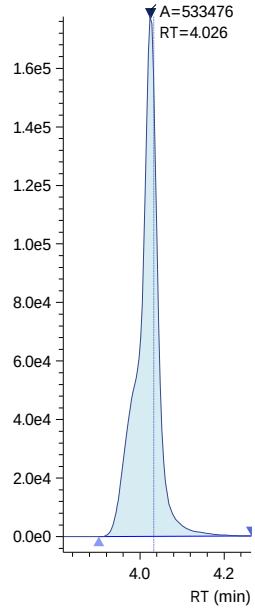
R1 298.80>99.00 (-) 1.26e4



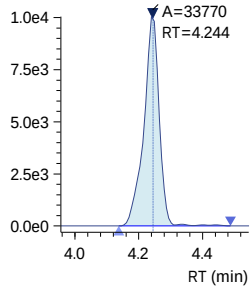
PFBS-13C
Conc 4.8658
Q 301.80>80.00 (-) 1.78e5



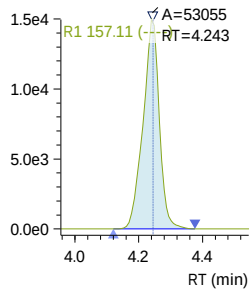
PFBS-13C_IS
Conc 5.0000
ISTD 301.80>80.00 (-) 1.78e5



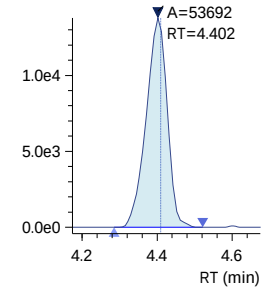
PFPeS
Conc 0.4361
R#1 157.11 (154.38)
Q 349.00>99.00 (-) 1.00e4

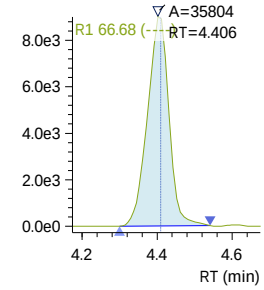


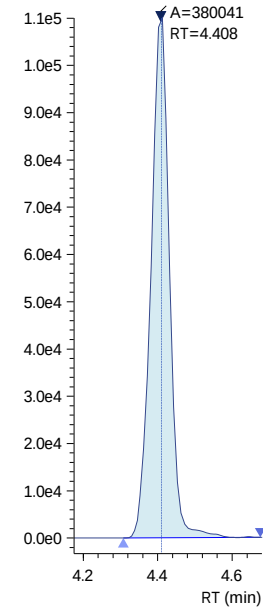
R1 349.00>79.95 (-) 1.50e4

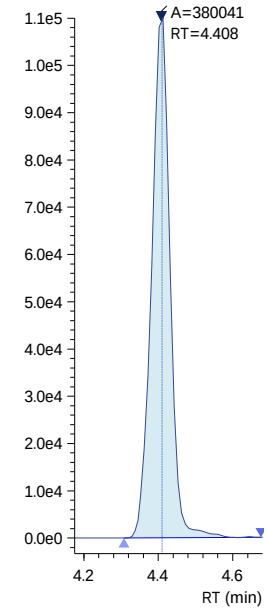


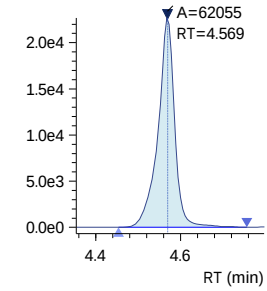
210909_010 (continued)

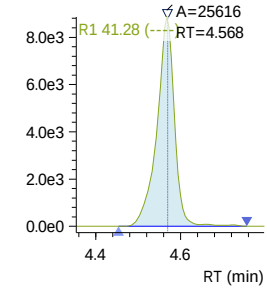
PFHxS_1
Conc 0.3964
R#1 66.68 (76.59)
Q 399.00>80.00 (-) 1.38e4


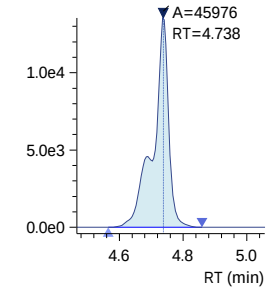
R1 399.00>99.00 (-) 9.00e3


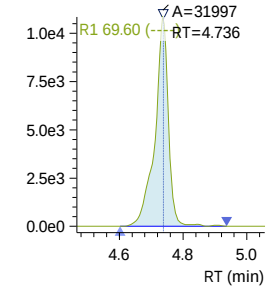
PFHxS-18O
Conc 4.8599
Q 402.70>84.05 (-) 1.10e5


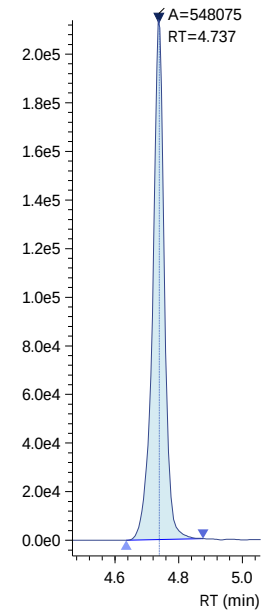
PFHxS-18O_IS
Conc 5.0000
ISTD 402.70>84.05 (-) 1.10e5


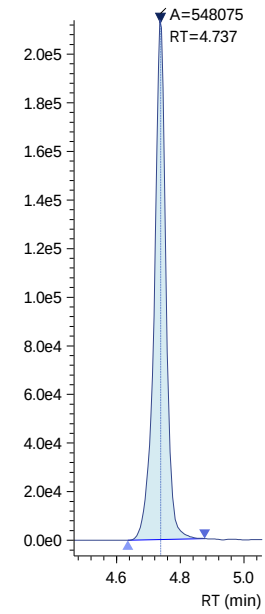
PFHpS_1
Conc 0.4691
R#1 41.28 (53.58)
Q 449.00>80.15 (-) 2.27e4


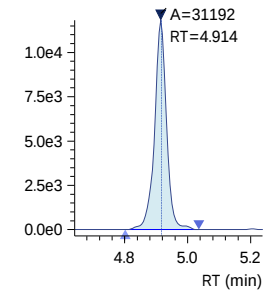
R1 449.00>99.20 (-) 8.86e3


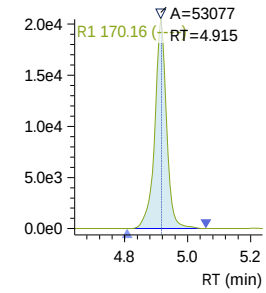
PFOS_1
Conc 0.4462
R#1 69.60 (84.68)
Q 499.00>80.00 (-) 1.35e4


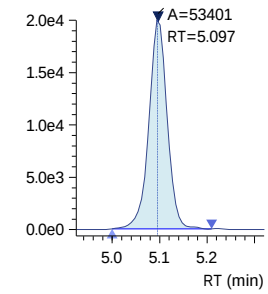
R1 499.00>99.00 (-) 1.08e4


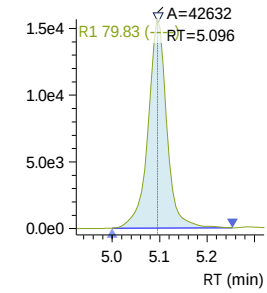
PFOS-13C
Conc 5.1287
Q 502.80>80.05 (-) 2.14e5


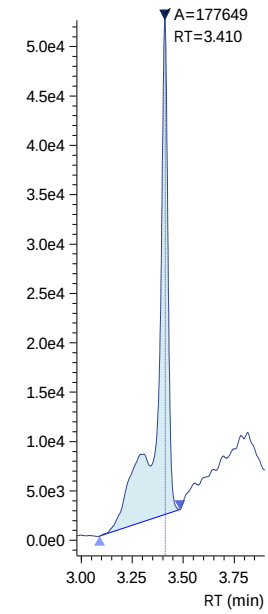
PFOS-13C_IS
Conc 5.0000
ISTD 502.80>80.05 (-) 2.14e5


PFNS
Conc 0.4141
R#1 170.16 (133.04)
Q 549.00>99.00 (-) 1.18e4


R1 549.00>79.95 (-) 2.05e4


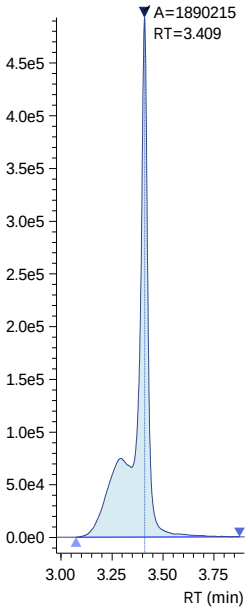
PFDS_1
Conc 0.4122
R#1 79.83 (89.20)
Q 599.00>79.90 (-) 2.00e4


R1 599.00>99.10 (-) 1.57e4


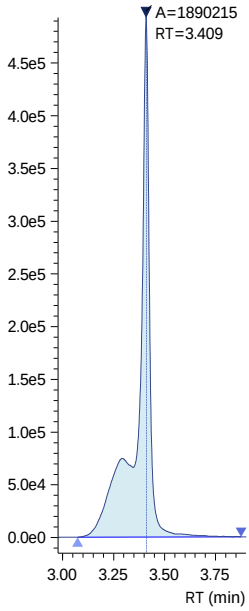
PFBA
Conc 0.5012
Q 213.00>169.10 (-) 5.27e4


210909_010 (continued)

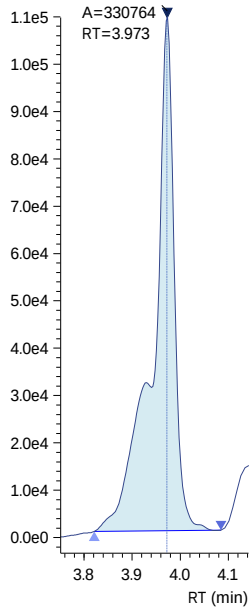
PFBA-13C
Conc 4.8056
Q 216.90>172.15 (-) 4.93e5



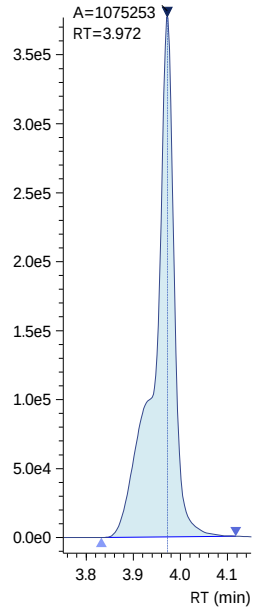
PFBA-13C_IS
Conc 5.0000
ISTD 216.90>172.15 (-) 4.93e5



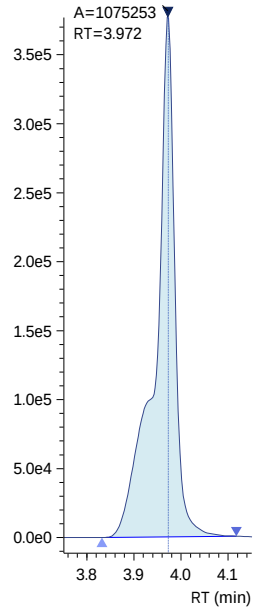
PFPeA
Conc 0.4713
Q 263.05>219.10 (-) 1.10e5



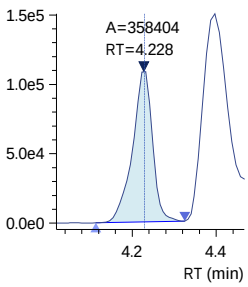
PFPeA-13C
Conc 4.7833
Q 267.90>223.00 (-) 3.77e5



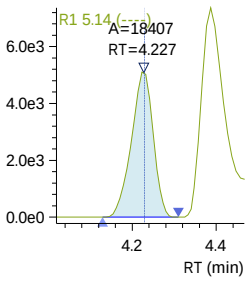
PFPeA-13C_IS
Conc 5.0000
ISTD 267.90>223.00 (-) 3.77e5



PFHxA
Conc 0.4461
R#1 5.14 (4.71)
Q 313.00>269.00 (-) 1.51e5



R1 313.00>119.10 (-) 7.37e3



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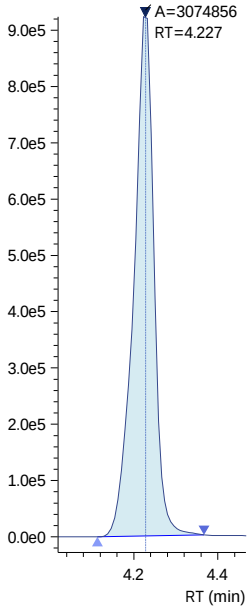
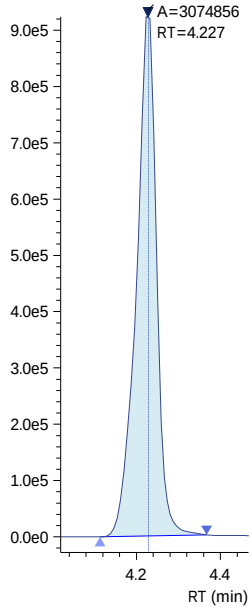
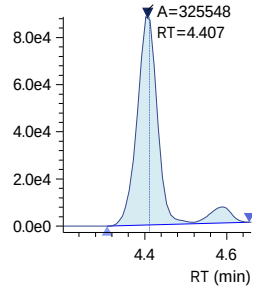
Conc 4.8206
Q 314.90>270.10 (-) 9.24e5



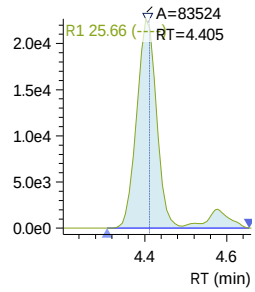
PFHxA-13C_IS
Conc 5.0000
ISTD 314.90>270.10 (-) 9.24e5



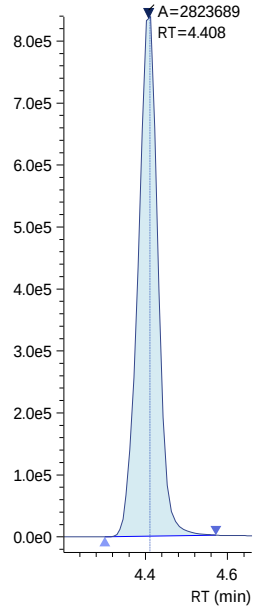
PFHpA
Conc 0.4953
R#1 25.66 (24.79)
Q 362.90>319.00 (-) 8.88e4



R1 362.90>169.00 (-) 2.27e4



PFHpA-13C
Conc 4.8813
Q 366.90>322.10 (-) 8.39e5



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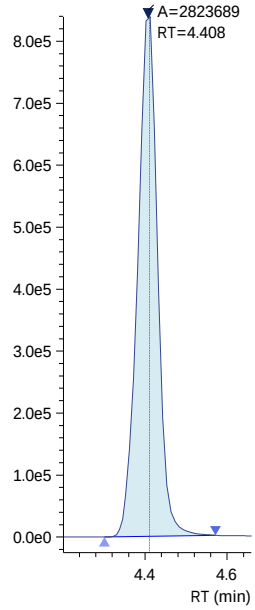
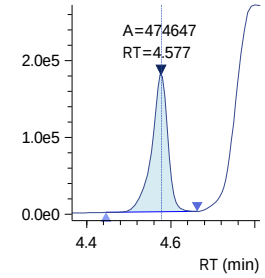
210909_010 (continued)

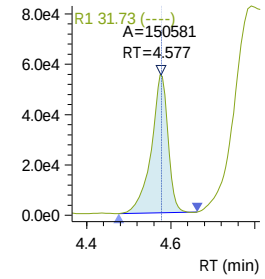
PFHpA-13C_IS
Conc 5.0000
ISTD 366.90>322.10 (-) 8.39e5



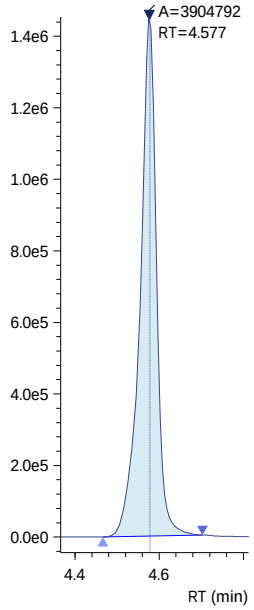
PFOA
Conc 0.4666
R#1 31.73 (30.61)
Q 413.00>369.00 (-) 2.72e5



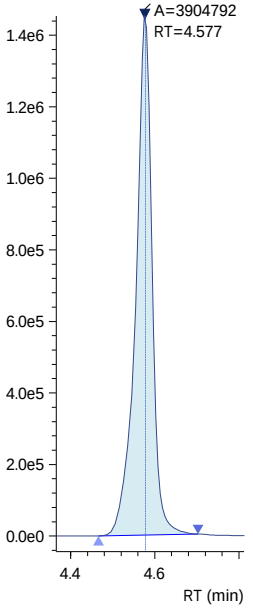
R1 413.00>169.10 (-) 8.32e4



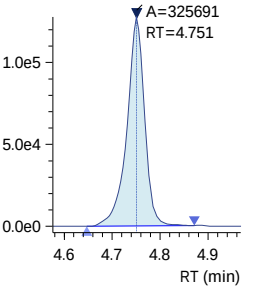
PFOA-13C
Conc 5.0492
Q 416.80>372.05 (-) 1.45e6



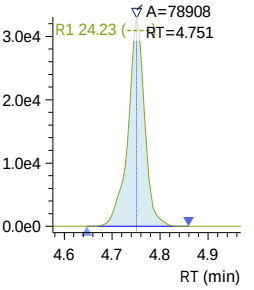
PFOA-13C_IS
Conc 5.0000
ISTD 416.80>372.05 (-) 1.45e6



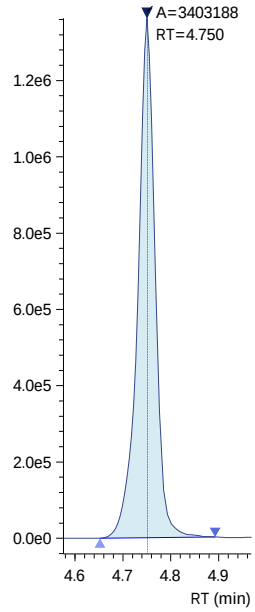
PFNA
Conc 0.4616
R#1 24.23 (23.82)
Q 463.00>418.90 (-) 1.28e5



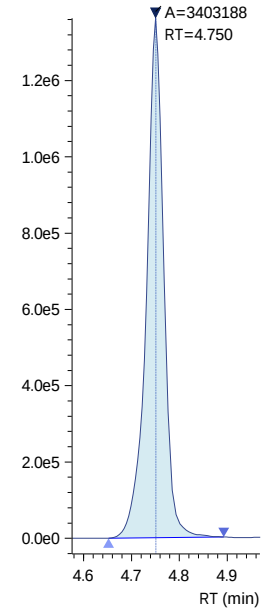
R1 463.00>219.00 (-) 3.31e4



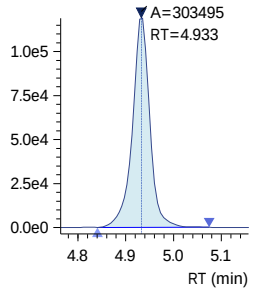
PFNA-13C
Conc 5.1077
Q 467.80>423.00 (-) 1.36e6



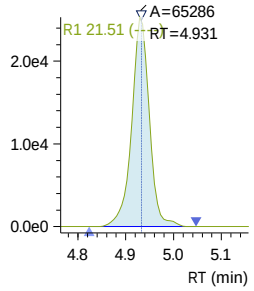
PFNA-13C_IS
Conc 5.0000
ISTD 467.80>423.00 (-) 1.36e6



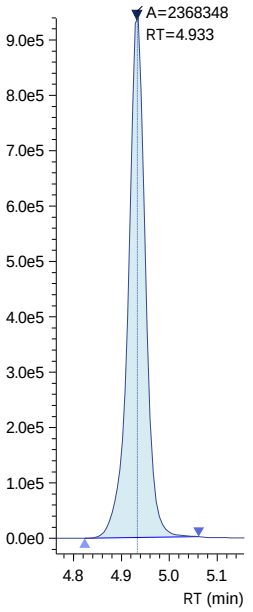
PFDA
Conc 0.4546
R#1 21.51 (20.11)
Q 513.00>468.80 (-) 1.19e5



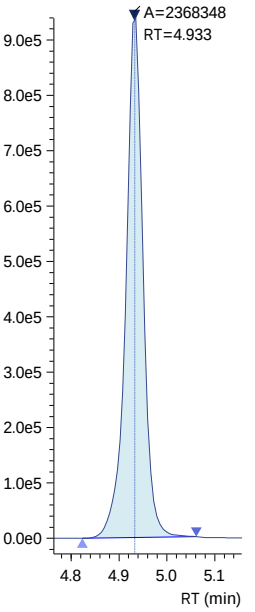
R1 513.00>219.10 (-) 2.53e4



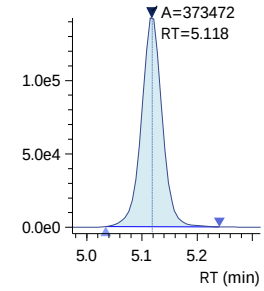
PFDA-13C
Conc 5.1125
Q 514.80>469.95 (-) 9.39e5

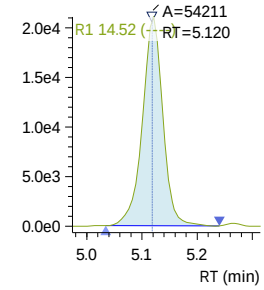


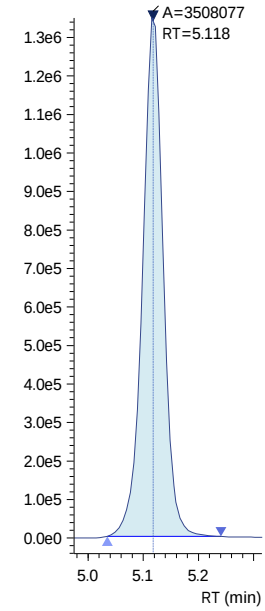
PFDA-13C_IS
Conc 5.0000
ISTD 514.80>469.95 (-) 9.39e5

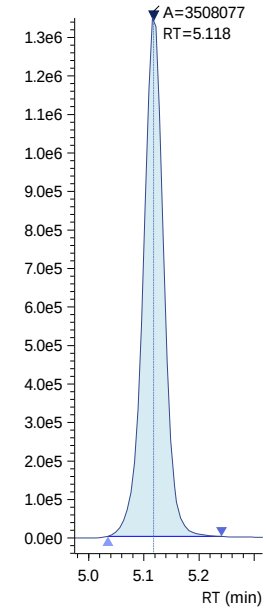


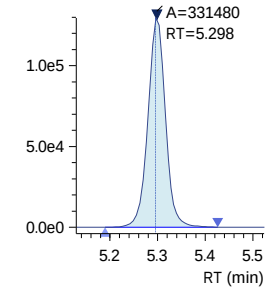
210909_010 (continued)

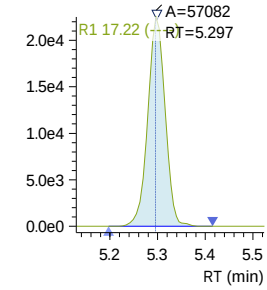
PFUnA
Conc 0.4810
R#1 14.52 (13.40)
Q 563.00>518.90 (-) 1.43e5


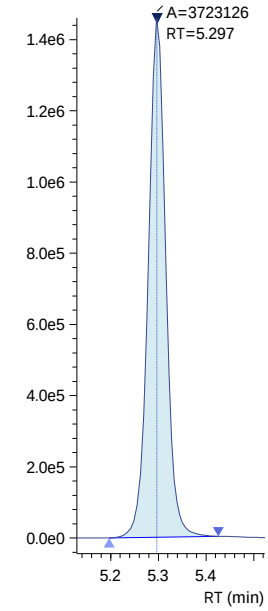
R1 563.00>219.00 (-) 2.11e4


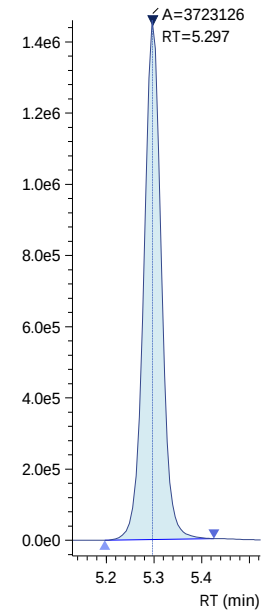
PFUnA-13C
Conc 5.0224
Q 564.80>519.95 (-) 1.35e6


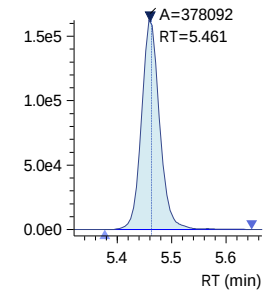
PFUnA-13C_IS
Conc 5.0000
ISTD 564.80>519.95 (-) 1.35e6


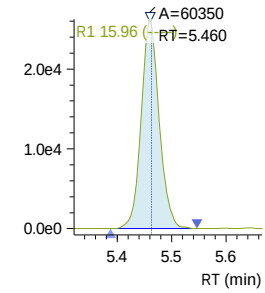
PFDoA
Conc 0.4984
R#1 17.22 (17.67)
Q 613.05>569.00 (-) 1.30e5


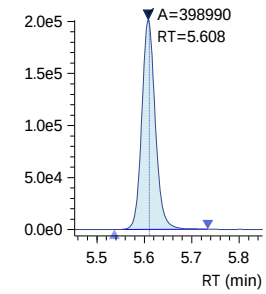
R1 613.05>169.00 (-) 2.25e4


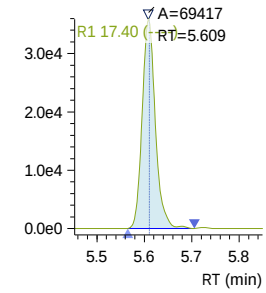
PFDoA-13C
Conc 4.8325
Q 614.80>569.95 (-) 1.46e6


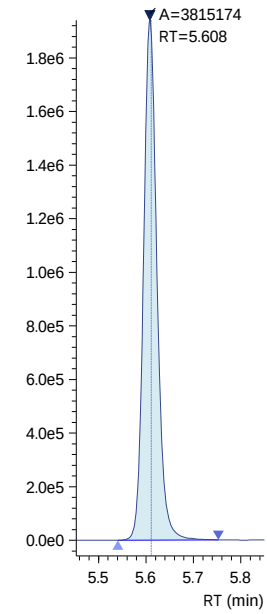
PFDoA-13C_IS
Conc 5.0000
ISTD 614.80>569.95 (-) 1.46e6


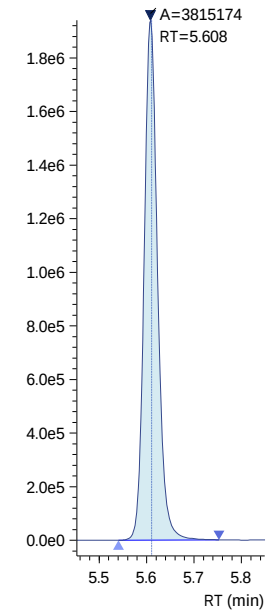
PFTrDA
Conc 0.4854
R#1 15.96 (14.03)
Q 663.00>618.90 (-) 1.62e5


R1 662.90>169.00 (-) 2.62e4


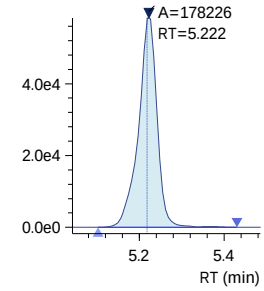
PFTeDA
Conc 0.4723
R#1 17.40 (16.71)
Q 713.00>669.00 (-) 2.01e5


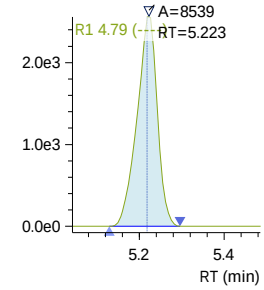
R1 713.00>169.10 (-) 3.59e4


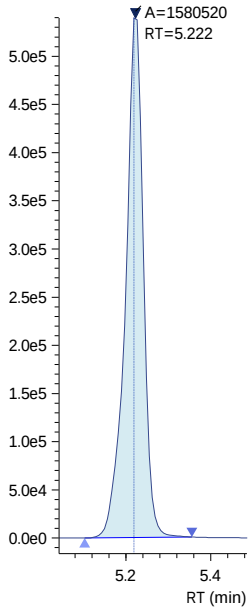
PFTeDA-13C
Conc 4.9354
Q 714.70>669.90 (-) 1.94e6


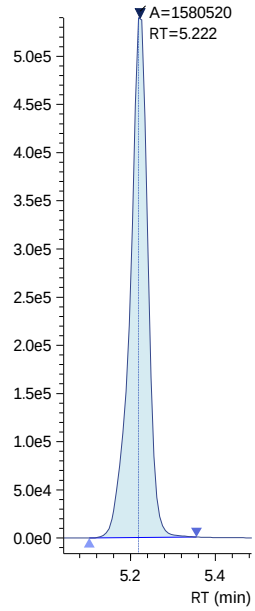
PFTeDA-13C_IS
Conc 5.0000
ISTD 714.70>669.90 (-) 1.94e6


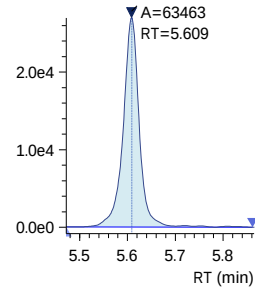
210909_010 (continued)

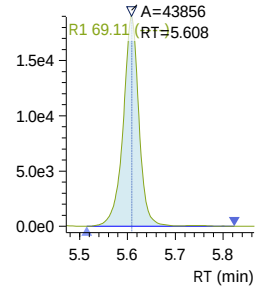
FOSA
Conc 0.4702
R#1 4.79 (4.71)
Q 498.20>78.00 (-) 5.83e4


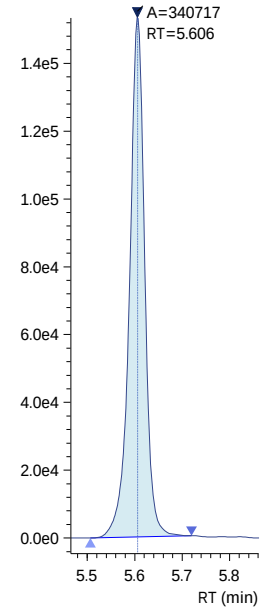
R1 498.20>64.10 (-) 2.56e3


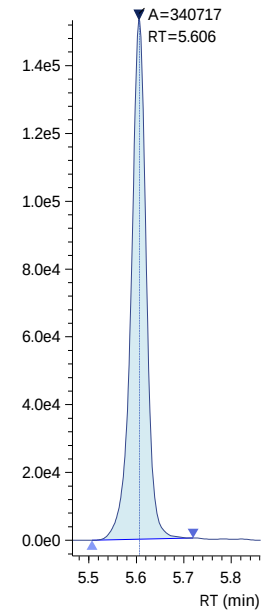
FOSA-13C
Conc 4.9278
Q 506.00>78.05 (-) 5.40e5


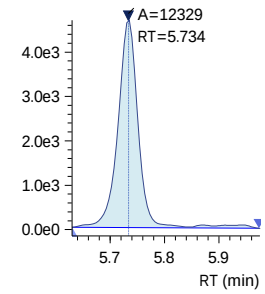
FOSA-13C_IS
Conc 5.0000
ISTD 506.00>78.05 (-) 5.40e5


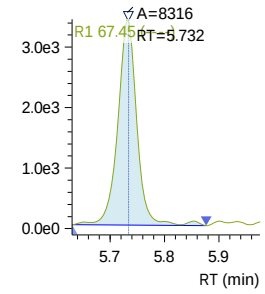
N-MeFOSA
Conc 0.4875
R#1 69.11 (66.26)
Q 512.00>169.10 (-) 2.70e4


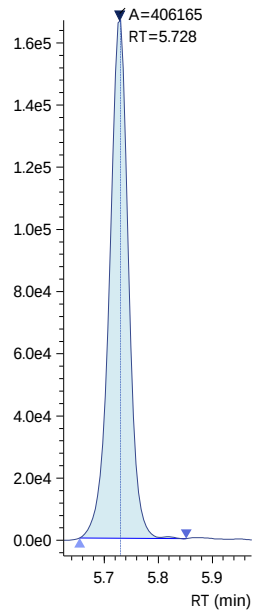
R1 512.00>219.00 (-) 1.89e4


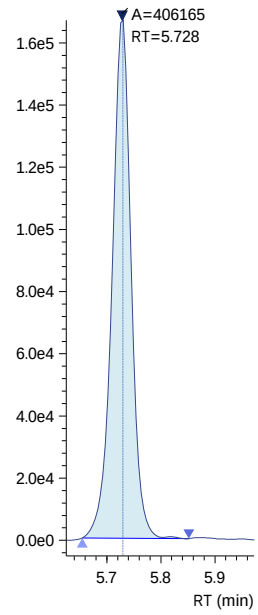
N-MeFOSA-d3
Conc 4.7344
Q 514.90>168.90 (-) 1.53e5


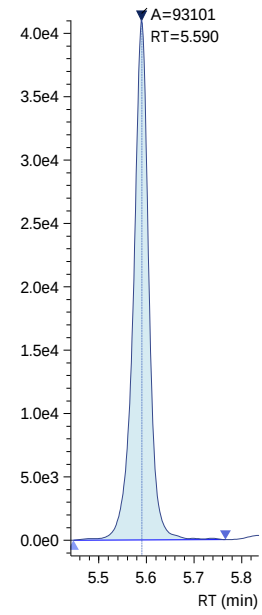
N-MeFOSA-d3_IS
Conc 5.0000
ISTD 514.90>168.90 (-) 1.53e5


N-EtFOSA
Conc 0.4867
R#1 67.45 (64.28)
Q 526.90>169.10 (-) 4.72e3


R1 526.90>219.00 (-) 3.46e3


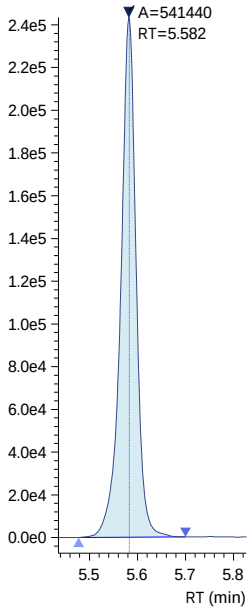
N-EtFOSA-d9
Conc 4.8446
Q 530.90>169.15 (-) 1.67e5


N-EtFOSA-d9_IS
Conc 5.0000
ISTD 530.90>169.15 (-) 1.67e5


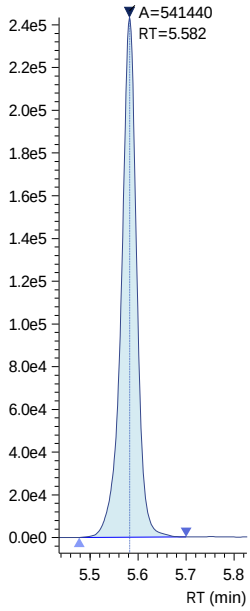
N-MeFOSE
Conc 0.4750
Q 616.00>59.00 (-) 4.10e4


210909_010 (continued)

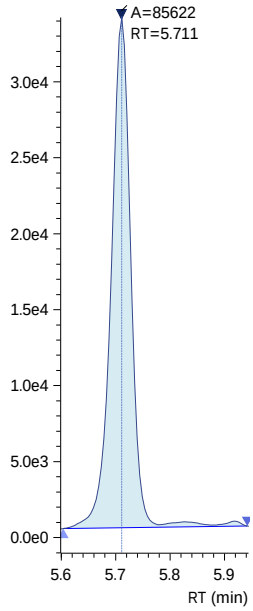
N-MeFOSE-d7
Conc 4.8859
Q 622.70>59.10 (-) 2.43e5



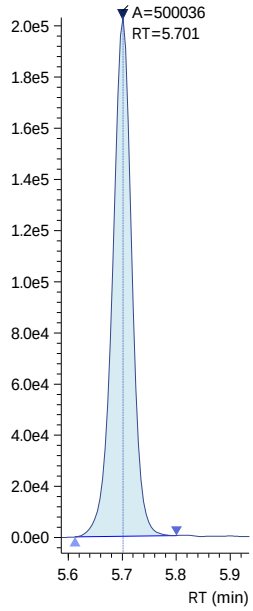
N-MeFOSE-d7_IS
Conc 5.0000
ISTD 622.70>59.10 (-) 2.43e5



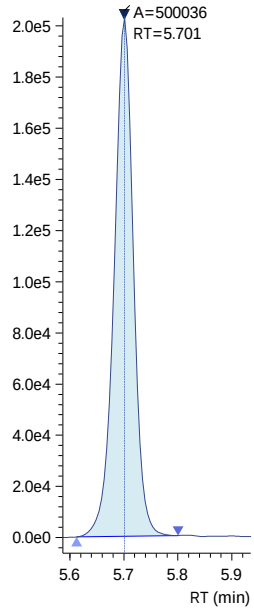
N-EtFOSE
Conc 0.4926
Q 630.00>58.90 (-) 3.42e4



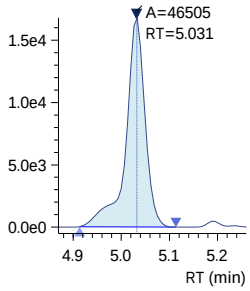
N-EtFOSE-d9
Conc 4.7649
Q 638.70>59.10 (-) 2.03e5



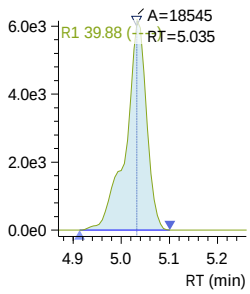
N-EtFOSE-d9_IS
Conc 5.0000
ISTD 638.70>59.10 (-) 2.03e5



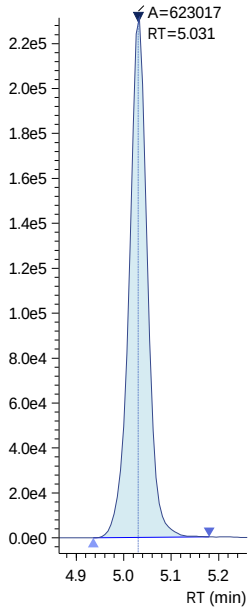
N-MeFOSAA
Conc 0.4556
R#1 39.88 (39.15)
Q 570.20>419.00 (-) 1.68e4



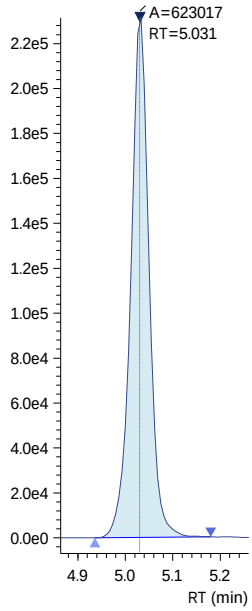
R1 570.20>512.00 (-) 6.16e3



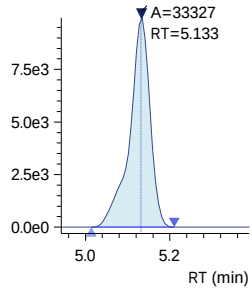
N-MeFOSAA-d3
Conc 4.8937
Q 572.80>419.05 (-) 2.31e5



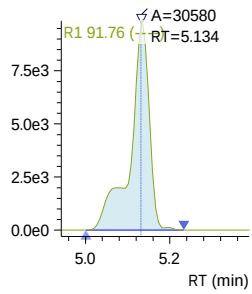
N-MeFOSAA-d3_IS
Conc 5.0000
ISTD 572.80>419.05 (-) 2.31e5



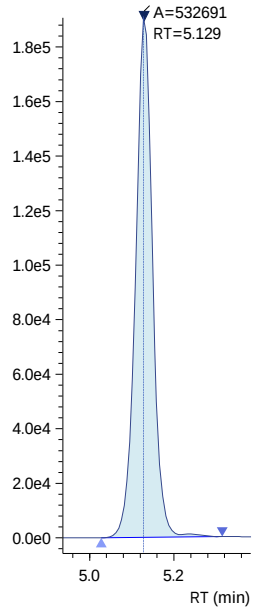
N-EtFOSAA
Conc 0.4370
R#1 91.76 (76.53)
Q 584.20>418.95 (-) 9.95e3



R1 584.20>526.10 (-) 9.85e3



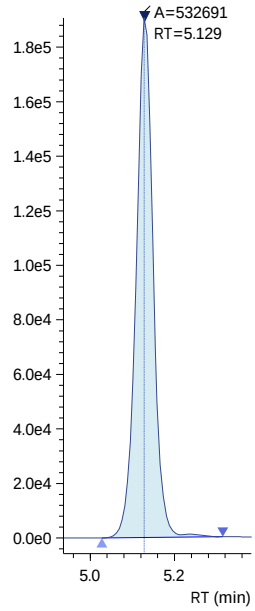
N-EtFOSAA-d5
Conc 4.9482
Q 588.80>419.00 (-) 1.91e5



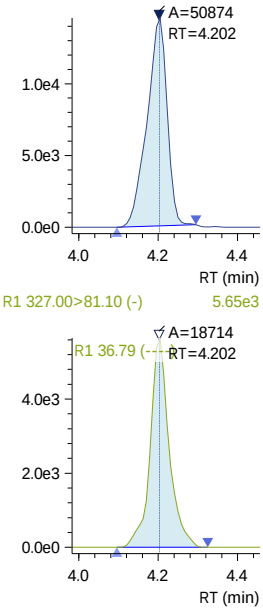
Insight Report
Before Manual Integration
Printed 9/9/2021 15:44:22

210909_010 (continued)

N-EtFOSAA-d5_IS
Conc 5.0000
ISTD 588.80>419.00 (-) 1.91e5

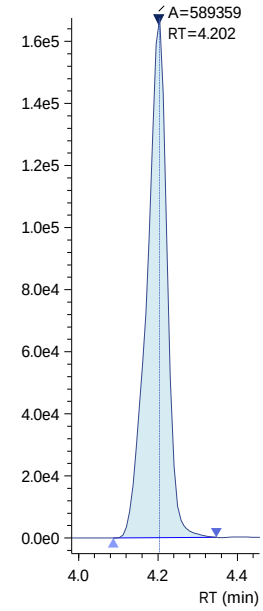


4_2-FTS_1
Conc 0.4781
R#1 36.79 (26.47)
Q 327.00>307.05 (-) 1.46e4

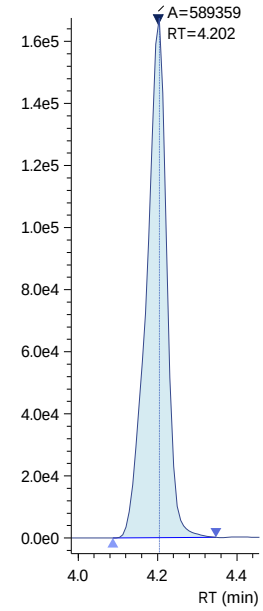


R1 327.00>81.10 (-) 5.65e3

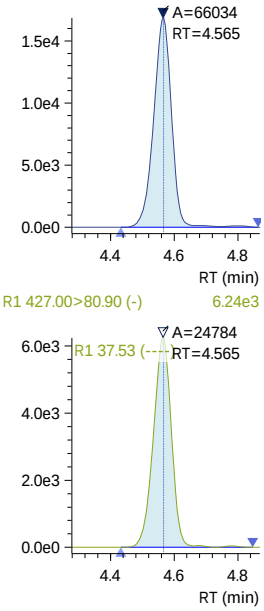
4_2-FTS-13C
Conc 4.9394
Q 328.80>309.05 (-) 1.68e5



4_2-FTS-13C_IS
Conc 5.0000
ISTD 328.80>309.05 (-) 1.68e5

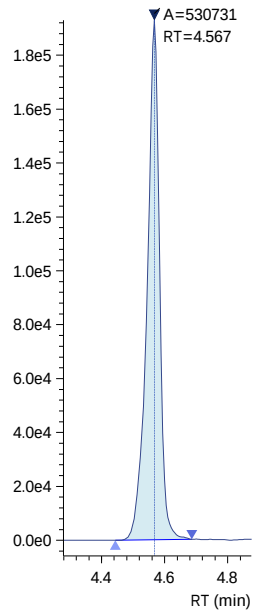


6_2-FTS_1
Conc 0.4744
R#1 37.53 (30.68)
Q 427.00>407.00 (-) 1.68e4

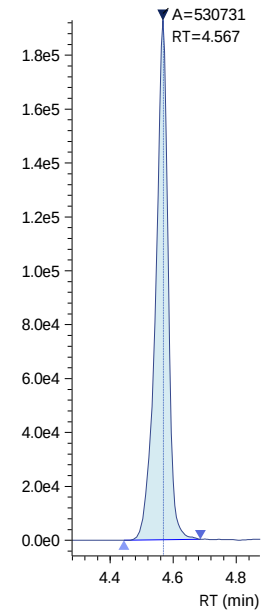


R1 427.00>80.90 (-) 6.24e3

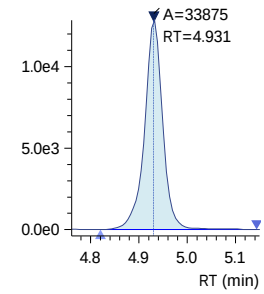
6_2-FTS-13C
Conc 5.2646
Q 428.90>409.00 (-) 1.93e5



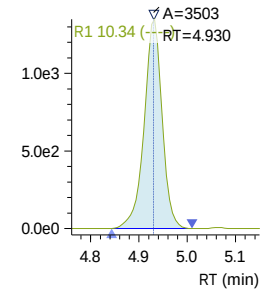
6_2-FTS-13C_IS
Conc 5.0000
ISTD 428.90>409.00 (-) 1.93e5



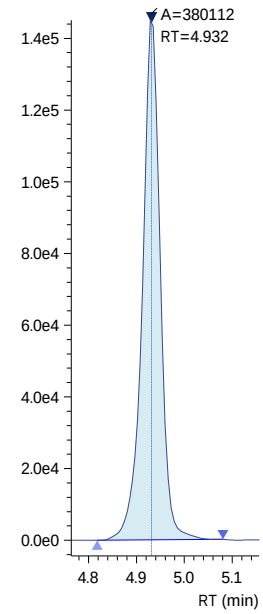
8_2-FTS_1
Conc 0.4665
R#1 10.34 (8.90)
Q 527.10>506.90 (-) 1.29e4



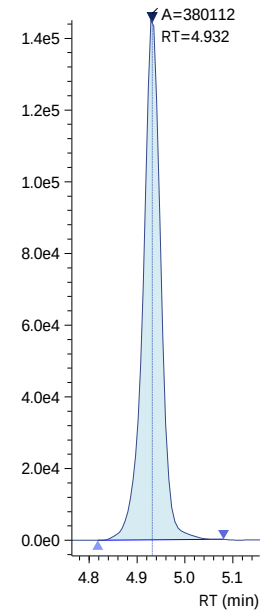
R1 527.20>487.00 (-) 1.35e3



8_2-FTS-13C
Conc 5.1868
Q 528.80>509.00 (-) 1.45e5

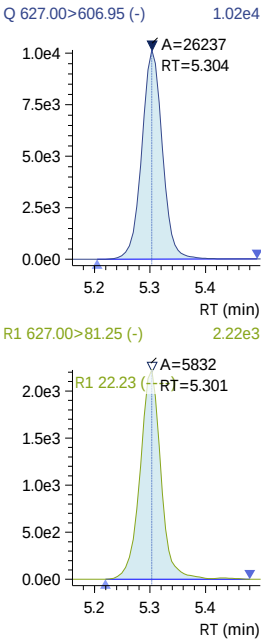


8_2-FTS-13C_IS
Conc 5.0000
ISTD 528.80>509.00 (-) 1.45e5

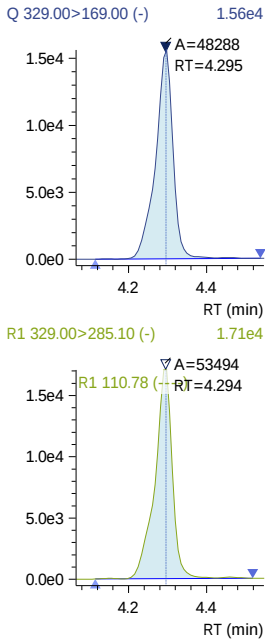


210909_010 (continued)

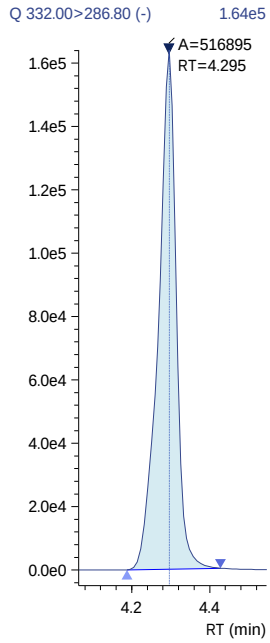
10_2-FtS_1
Conc 0.4450
R#1 22.23 (26.33)



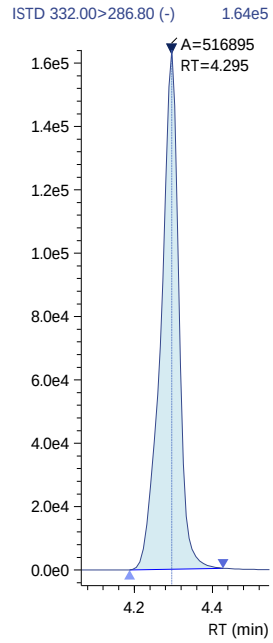
HPFO_DA
Conc 0.4604
R#1 110.78 (103.01)



HFPO_DA-13C
Conc 4.7836



HFPO_DA-13C_IS
Conc 5.0000



Insight Report
Retention Time/Signal:Noise Ratio Confirmation
Printed 9/9/2021 16:28:51

210909_011

Sample ID: PFC ICAL @ 1.0ppb
Date Acquired: 9/9/2021 2:26:21 PM
Acquired by: System Administrator
Data File: 210909_011
Vial: 4 | Inj. Volume: 15.0000uL | Tray: 0

Name	m/z	Ref 1 m/z	Found RT	RT Diff	ISTD RT Diff	S/N	Ref 1 S/N	Flag ID
13C7-PFUnDA_IS	570.00>525.00	----	5.118	0.001	----	3445	----	
PFBS_1	299.00>80.00	298.80>99.00	4.026	-0.001	-0.001	(INF)	8306	
PFBS-13C	301.80>80.00	----	4.027	-0.006	-1.091	(INF)	----	
PFBS-13C_IS	301.80>80.00	----	4.027	-0.006	----	(INF)	----	
PFPeS	349.00>99.00	349.00>79.95	4.244	-0.001	0.217	1345	(INF)	
PFHxS_1	399.00>80.00	399.00>99.00	4.406	-0.004	-0.003	(INF)	(INF)	
PFHxS-18O	402.70>84.05	----	4.409	-0.001	-0.709	(INF)	----	
PFHxS-18O_IS	402.70>84.05	----	4.409	-0.001	----	(INF)	----	
PFHpS_1	449.00>80.15	449.00>99.20	4.569	-0.001	0.160	26936	(INF)	
PFOS_1	499.00>80.00	499.00>99.00	4.739	0.001	0.000	(INF)	(INF)	
PFOS-13C	502.80>80.05	----	4.739	0.000	-0.379	(INF)	----	
PFOS-13C_IS	502.80>80.05	----	4.739	0.000	----	(INF)	----	
PFNS	549.00>99.00	549.00>79.95	4.916	0.000	0.177	(INF)	(INF)	
PFDS_1	599.00>79.90	599.00>99.10	5.097	0.002	0.358	(INF)	(INF)	
PFBA	213.00>169.10	----	3.411	0.000	0.001	52	----	
PFBA-13C	216.90>172.15	----	3.410	0.000	-1.708	14259	----	
PFBA-13C_IS	216.90>172.15	----	3.410	0.000	----	14259	----	
PFPeA	263.05>219.10	----	3.973	0.000	0.000	904	----	
PFPeA-13C	267.90>223.00	----	3.973	0.000	-1.145	9849	----	
PFPeA-13C_IS	267.90>223.00	----	3.973	0.000	----	9849	----	
PFHxA	313.00>269.00	313.00>119.10	4.228	-0.001	0.000	1889	(INF)	
PFHxA-13C	314.90>270.10	----	4.228	-0.001	-0.890	21130	----	
PFHxA-13C_IS	314.90>270.10	----	4.228	-0.001	----	21130	----	
PFHpA	362.90>319.00	362.90>169.00	4.409	-0.003	0.000	(INF)	(INF)	
PFHpA-13C	366.90>322.10	----	4.409	-0.002	-0.709	36658	----	
PFHpA-13C_IS	366.90>322.10	----	4.409	-0.002	----	36658	----	
PFOA	413.00>369.00	413.00>169.10	4.578	0.000	0.000	862	922	
PFOA-13C	416.80>372.05	----	4.578	0.000	-0.540	34052	----	
PFOA-13C_IS	416.80>372.05	----	4.578	0.000	----	34052	----	
PFNA	463.00>418.90	463.00>219.00	4.751	0.000	0.000	154501	(INF)	
PFNA-13C	467.80>423.00	----	4.751	0.000	-0.367	29698	----	
PFNA-13C_IS	467.80>423.00	----	4.751	0.000	----	29698	----	
PFDA	513.00>468.80	513.00>219.10	4.933	0.000	0.000	9042	(INF)	
PFDA-13C	514.80>469.95	----	4.933	0.000	-0.185	566285	----	
PFDA-13C_IS	514.80>469.95	----	4.933	0.000	----	566285	----	
PFUnA	563.00>518.90	563.00>219.00	5.119	0.001	0.000	2475	1842	
PFUnA-13C	564.80>519.95	----	5.119	0.001	0.001	3099	----	
PFUnA-13C_IS	564.80>519.95	----	5.119	0.001	----	3099	----	
PFDoA	613.05>569.00	613.05>169.00	5.300	0.004	0.001	4236	(INF)	
PFDoA-13C	614.80>569.95	----	5.299	0.002	0.181	(INF)	----	
PFDoA-13C_IS	614.80>569.95	----	5.299	0.002	----	(INF)	----	
PFTrDA	663.00>618.90	662.90>169.00	5.462	-0.001	-0.147	(INF)	(INF)	
PFTeDA	713.00>669.00	713.00>169.10	5.610	-0.001	0.001	15121	(INF)	
PFTeDA-13C	714.70>669.90	----	5.609	-0.002	0.491	108597	----	
PFTeDA-13C_IS	714.70>669.90	----	5.609	-0.002	----	131863	----	
FOSA	498.20>78.00	498.20>64.10	5.222	0.004	0.000	(INF)	(INF)	
FOSA-13C	506.00>78.05	----	5.222	0.003	0.104	2542	----	
FOSA-13C_IS	506.00>78.05	----	5.222	0.003	----	2542	----	
N-MeFOSA	512.00>169.10	512.00>219.00	5.609	0.000	0.002	1366	712	
N-MeFOSA-d3	514.90>168.90	----	5.607	0.001	0.489	995	----	
N-MeFOSA-d3_IS	514.90>168.90	----	5.607	0.001	----	995	----	

J:\LCMS06\Data\210909_Curve\210909_Curve.DAMLP .

SN - Software-calculated S/N ratio outside criteria due to non-target peaks or drift in noise calculation window. Analyst review of noise levels (excluding non-target peaks) in chromatogram indicates S/N ratio meets criteria.

Insight Report
Retention Time/Signal:Noise Ratio Confirmation
Printed 9/9/2021 16:28:51

210909_011 (continued)

(Table continued from previous page)

Name	m/z	Ref 1 m/z	Found RT	RT Diff	ISTD RT Diff	S/N	Ref 1 S/N	Flag ID
N-EtFOSA	526.90>169.10	526.90>219.00	5.733	-0.001	0.005	565	289	
N-EtFOSA-d9	530.90>169.15	----	5.728	-0.002	0.610	1742	----	
N-EtFOSA-d9_IS	530.90>169.15	----	5.728	-0.002	----	1742	----	
N-MeFOSE	616.00>59.00	----	5.590	0.000	0.007	3448	----	
N-MeFOSE-d7	622.70>59.10	----	5.583	0.000	0.465	1438	----	
N-MeFOSE-d7_IS	622.70>59.10	----	5.583	0.000	----	1438	----	
N-EtFOSE	630.00>58.90	----	5.711	0.000	0.010	1739	----	
N-EtFOSE-d9	638.70>59.10	----	5.701	0.000	0.583	2299	----	
N-EtFOSE-d9_IS	638.70>59.10	----	5.701	0.000	----	2299	----	
N-MeFOSAA	570.20>419.00	570.20>512.00	5.033	0.000	0.002	(INF)	(INF)	
N-MeFOSAA-d3	572.80>419.05	----	5.031	0.001	-0.087	(INF)	----	
N-MeFOSAA-d3_IS	572.80>419.05	----	5.031	0.001	----	(INF)	----	
N-EtFOSAA	584.20>418.95	584.20>526.10	5.133	0.001	0.003	1595	11118	
N-EtFOSAA-d5	588.80>419.00	----	5.130	0.002	0.012	(INF)	----	
N-EtFOSAA-d5_IS	588.80>419.00	----	5.130	0.002	----	(INF)	----	
4_2-FTS_1	327.00>307.05	327.00>81.10	4.204	0.001	0.002	2021	(INF)	
4_2-FTS-13C	328.80>309.05	----	4.202	-0.002	-0.916	(INF)	----	
4_2-FTS-13C_IS	328.80>309.05	----	4.202	-0.002	----	(INF)	----	
6_2-FTS_1	427.00>407.00	427.00>80.90	4.565	-0.002	-0.003	(INF)	(INF)	
6_2-FTS-13C	428.90>409.00	----	4.568	0.000	-0.550	62307	----	
6_2-FTS-13C_IS	428.90>409.00	----	4.568	0.000	----	116566	----	
8_2-FTS_1	527.10>506.90	527.20>487.00	4.931	0.001	-0.001	(INF)	(INF)	
8_2-FTS-13C	528.80>509.00	----	4.932	0.000	-0.186	20894	----	
8_2-FTS-13C_IS	528.80>509.00	----	4.932	0.000	----	20894	----	
10_2-FtS_1	627.00>606.95	627.00>81.25	5.305	0.002	0.373	(INF)	(INF)	
HPFO_DA	329.00>169.00	329.00>285.10	4.295	-0.001	0.000	2089	2596	
HFPO_DA-13C	332.00>286.80	----	4.295	-0.001	-0.823	27631	----	
HFPO_DA-13C_IS	332.00>286.80	----	4.295	-0.001	----	27631	----	

SN - Software-calculated S/N ratio outside criteria due to non-target peaks or drift in noise calculation window. Analyst review of noise levels (excluding non-target peaks) in chromatogram indicates S/N ratio meets criteria.

Insight Report
Ion Ratio Confirmation
Printed 9/9/2021 16:29:39

210909_011

Sample ID: PFC ICAL @ 1.0ppb
Date Acquired: 9/9/2021 2:26:21 PM
Acquired by: System Administrator
Data File: 210909_011
Vial: 4 | Inj. Volume: 15.0000uL | Tray: 0

Name	m/z	Ref 1 m/z	Area	Ref 1 Measured	Ref 1 Actual Ratio	Ref 1 Set Ratio	Comment 1	Flag ID
13C7-PFUnDA_IS	570.00>525.00	----	4597226	----	----	----		
PFBS_1	299.00>80.00	298.80>99.00	157363	75147	47.75	49.34	24.67-74.01	
PFBS-13C	301.80>80.00	----	502757	----	----	----	0-0	
PFBS-13C_IS	301.80>80.00	----	502757	----	----	----	0-0	
PFPeS	349.00>99.00	349.00>79.95	67362	109728	162.89	151.30	75.65 -226.95	
PFHxS_1	399.00>80.00	399.00>99.00	105342	68624	65.14	62.92	31.46-94.38	
PFHxS-18O	402.70>84.05	----	358641	----	----	----	0-0	
PFHxS-18O_IS	402.70>84.05	----	358641	----	----	----	0-0	
PFHpS_1	449.00>80.15	449.00>99.20	123726	49482	39.99	40.53	20.26-60.79	
PFOS_1	499.00>80.00	499.00>99.00	86979	67794	77.94	73.81	36.91 -110.72	
PFOS-13C	502.80>80.05	----	504770	----	----	----	0-0	
PFOS-13C_IS	502.80>80.05	----	504770	----	----	----	0-0	
PFNS	549.00>99.00	549.00>79.95	73167	102292	139.81	160.25	80.13 -240.38	
PFDS_1	599.00>79.90	599.00>99.10	116757	83613	71.61	72.12	36.06 -108.19	
PFBA	213.00>169.10	----	374675	----	----	----		
PFBA-13C	216.90>172.15	----	1790807	----	----	----		
PFBA-13C_IS	216.90>172.15	----	1790807	----	----	----		
PFPeA	263.05>219.10	----	658755	----	----	----		
PFPeA-13C	267.90>223.00	----	1033837	----	----	----	0-0	
PFPeA-13C_IS	267.90>223.00	----	1033837	----	----	----	0-0	
PFHxA	313.00>269.00	313.00>119.10	745321	35653	4.78	4.40	2.2-6.61	
PFHxA-13C	314.90>270.10	----	2911474	----	----	----	0-0	
PFHxA-13C_IS	314.90>270.10	----	2911474	----	----	----	0-0	
PFHpA	362.90>319.00	362.90>169.00	589343	156349	26.53	24.40	12.2-36.6	
PFHpA-13C	366.90>322.10	----	2588571	----	----	----	0-0	
PFHpA-13C_IS	366.90>322.10	----	2588571	----	----	----	0-0	
PFOA	413.00>369.00	413.00>169.10	958224	296107	30.90	31.89	15.94-47.83	
PFOA-13C	416.80>372.05	----	3635090	----	----	----	0-0	
PFOA-13C_IS	416.80>372.05	----	3635090	----	----	----	0-0	
PFNA	463.00>418.90	463.00>219.00	638663	169547	26.55	23.25	11.63-34.88	
PFNA-13C	467.80>423.00	----	3135904	----	----	----	0-0	
PFNA-13C_IS	467.80>423.00	----	3135904	----	----	----	0-0	
PFDA	513.00>468.80	513.00>219.10	606281	126561	20.88	20.24	10.12-30.36	
PFDA-13C	514.80>469.95	----	2160525	----	----	----	0-0	
PFDA-13C_IS	514.80>469.95	----	2160525	----	----	----	0-0	
PFUnA	563.00>518.90	563.00>219.00	726569	85302	11.74	12.46	6.23-18.69	
PFUnA-13C	564.80>519.95	----	3323875	----	----	----	0-0	
PFUnA-13C_IS	564.80>519.95	----	3323875	----	----	----	0-0	
PFDoA	613.05>569.00	613.05>169.00	670951	105884	15.78	16.50	8.25-24.76	
PFDoA-13C	614.80>569.95	----	3608563	----	----	----	0-0	
PFDoA-13C_IS	614.80>569.95	----	3608563	----	----	----	0-0	
PFTrDA	663.00>618.90	662.90>169.00	746636	118119	15.82	15.29	7.65-22.94	
PFTeDA	713.00>669.00	713.00>169.10	787258	133243	16.93	17.47	8.73-26.2	
PFTeDA-13C	714.70>669.90	----	3586409	----	----	----	0-0	
PFTeDA-13C_IS	714.70>669.90	----	3586409	----	----	----	0-0	
FOSA	498.20>78.00	498.20>64.10	359507	17580	4.89	5.19	2.6-7.79	
FOSA-13C	506.00>78.05	----	1439755	----	----	----	0-0	

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Comment 1 field specifies acceptance range for Ref 1 ratio.
IRr - Ion ratio outside criteria. Exceedances for results above the MDL to be "K" flagged in the analytical report.

Insight Report
Ion Ratio Confirmation
Printed 9/9/2021 16:29:39

210909_011 (continued)

(Table continued from previous page)

Name	m/z	Ref 1 m/z	Area	Ref 1 Measured	Ref 1 Actual Ratio	Ref 1 Set Ratio	Comment 1	Flag ID
FOSA-13C_IS	506.00>78.05	----	1439755	----	----	----	0-0	
N-MeFOSA	512.00>169.10	512.00>219.00	125199	86918	69.42	69.94	34.97 -104.91	
N-MeFOSA-d3	514.90>168.90	----	330281	----	----	----	0-0	
N-MeFOSA-d3_IS	514.90>168.90	----	330281	----	----	----	0-0	
N-EtFOSA	526.90>169.10	526.90>219.00	22150	15126	68.29	66.52	33.26-99.77	
N-EtFOSA-d9	530.90>169.15	----	382395	----	----	----	0-0	
N-EtFOSA-d9_IS	530.90>169.15	----	382395	----	----	----	0-0	
N-MeFOSE	616.00>59.00	----	186048	----	----	----		
N-MeFOSE-d7	622.70>59.10	----	506245	----	----	----		
N-MeFOSE-d7_IS	622.70>59.10	----	506245	----	----	----		
N-EtFOSE	630.00>58.90	----	166426	----	----	----		
N-EtFOSE-d9	638.70>59.10	----	480956	----	----	----	0-0	
N-EtFOSE-d9_IS	638.70>59.10	----	480956	----	----	----	0-0	
N-MeFOSAA	570.20>419.00	570.20>512.00	98651	47301	47.95	39.56	19.78-59.34	
N-MeFOSAA-d3	572.80>419.05	----	579902	----	----	----	0-0	
N-MeFOSAA-d3_IS	572.80>419.05	----	579902	----	----	----	0-0	
N-EtFOSAA	584.20>418.95	584.20>526.10	75923	63097	83.11	84.54	42.27 -126.81	
N-EtFOSAA-d5	588.80>419.00	----	518335	----	----	----	0-0	
N-EtFOSAA-d5_IS	588.80>419.00	----	518335	----	----	----	0-0	
4_2-FTS_1	327.00>307.05	327.00>81.10	97287	29036	29.85	34.12	17.06-51.19	
4_2-FTS-13C	328.80>309.05	----	523381	----	----	----	0-0	
4_2-FTS-13C_IS	328.80>309.05	----	523381	----	----	----	0-0	
6_2-FTS_1	427.00>407.00	427.00>80.90	126830	46210	36.44	37.36	18.68-56.04	
6_2-FTS-13C	428.90>409.00	----	493850	----	----	----	0-0	
6_2-FTS-13C_IS	428.90>409.00	----	493850	----	----	----	0-0	
8_2-FTS_1	527.10>506.90	527.20>487.00	71513	7886	11.03	10.63	5.32-15.95	
8_2-FTS-13C	528.80>509.00	----	356948	----	----	----	0-0	
8_2-FTS-13C_IS	528.80>509.00	----	356948	----	----	----	0-0	
10_2-FtS_1	627.00>606.95	627.00>81.25	53702	11546	21.50	21.61	10.8-32.41	
HPFO_DA	329.00>169.00	329.00>285.10	99208	106795	107.65	106.46	53.23 -159.68	
HFPO_DA-13C	332.00>286.80	----	487223	----	----	----		
HFPO_DA-13C_IS	332.00>286.80	----	487223	----	----	----		

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Comment 1 field specifies acceptance range for Ref 1 ratio.
IRr - Ion ratio outside criteria. Exceedances for results above the MDL to be "K" flagged in the analytical report.

Insight Report
Quantitation/Integration
Printed 9/9/2021 16:33:46

210909_011

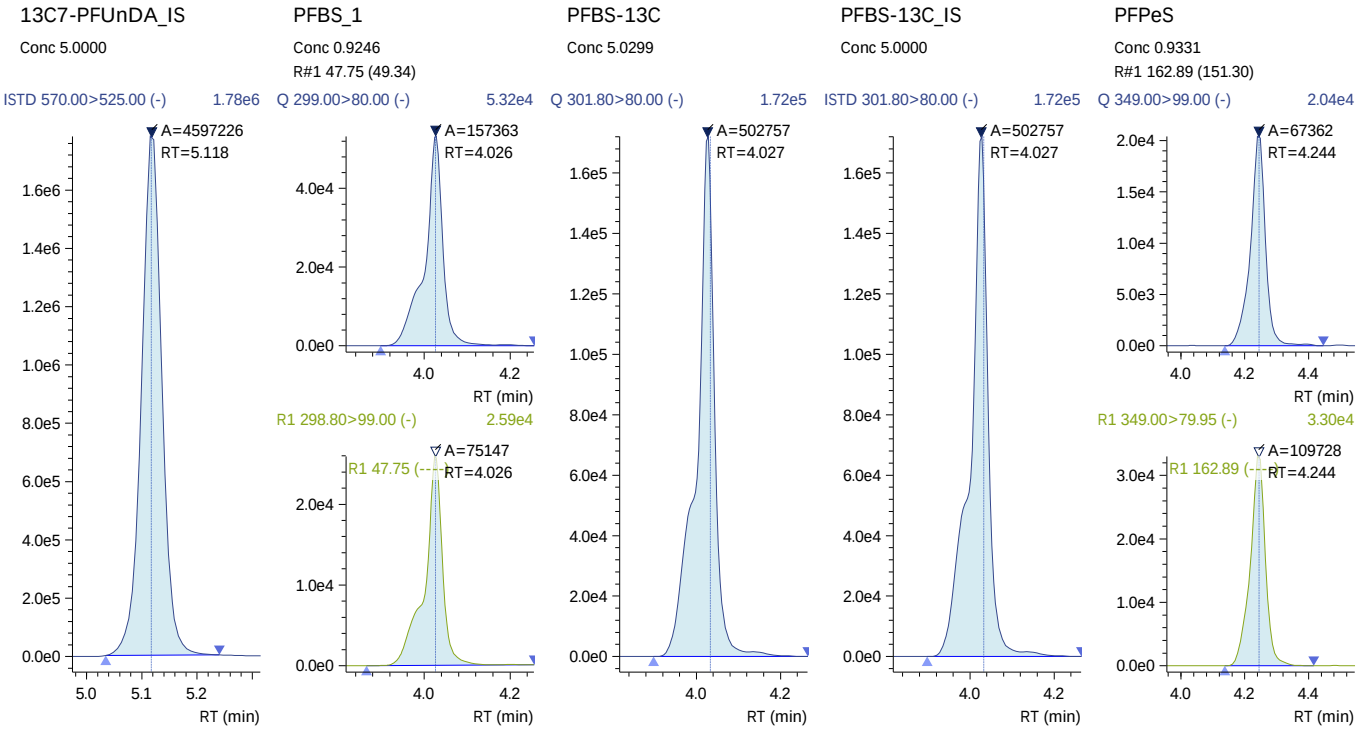
Sample ID: PFC ICAL @ 1.0ppb
Date Acquired: 9/9/2021 2:26:21 PM
Acquired by: System Administrator
Data File: 210909_011
Vial: 4 | Inj. Volume: 15.0000uL | Tray: 0

Name	Mode ID	Found RT	Area	ISTD Area	ISTD Name	Std. Conc.	Conc.	Unit
13C7-PFUnDA_IS	Auto	5.118	4597226	4597226	----	5.0000	5.0000	ng/mL
PFBS_1	Auto	4.026	157363	502757	PFBS-13C_IS	0.8874	0.9246	ng/mL
PFBS-13C	Auto	4.027	502757	4597226	13C7-PFUnDA_IS	5.0000	5.0299	ng/mL
PFBS-13C_IS	Auto	4.027	502757	502757	----	5.0000	5.0000	ng/mL
PFPeS	Auto	4.244	67362	502757	PFBS-13C_IS	0.9409	0.9331	ng/mL
PFHxS_1	MI R1	4.406	105342	358641	PFHxS-18O_IS	0.9131	0.8947	ng/mL
PFHxS-18O	Auto	4.409	358641	4597226	13C7-PFUnDA_IS	5.0000	5.0305	ng/mL
PFHxS-18O_IS	Auto	4.409	358641	358641	----	5.0000	5.0000	ng/mL
PFHpS_1	Auto	4.569	123726	358641	PFHxS-18O_IS	0.9534	1.0041	ng/mL
PFOS_1	Auto	4.739	86979	504770	PFOS-13C_IS	0.9292	0.9207	ng/mL
PFOS-13C	Auto	4.739	504770	4597226	13C7-PFUnDA_IS	5.0000	5.1811	ng/mL
PFOS-13C_IS	Auto	4.739	504770	504770	----	5.0000	5.0000	ng/mL
PFNS	Auto	4.916	73167	504770	PFOS-13C_IS	0.9616	1.0665	ng/mL
PFDS_1	MI R1	5.097	116757	504770	PFOS-13C_IS	0.9647	0.9825	ng/mL
PFBA	Auto	3.411	374675	1790807	PFBA-13C_IS	1.0000	0.9341	ng/mL
PFBA-13C	Auto	3.410	1790807	4597226	13C7-PFUnDA_IS	5.0000	4.9940	ng/mL
PFBA-13C_IS	Auto	3.410	1790807	1790807	----	5.0000	5.0000	ng/mL
PFPeA	Auto	3.973	658755	1033837	PFPeA-13C_IS	1.0000	1.0134	ng/mL
PFPeA-13C	Auto	3.973	1033837	4597226	13C7-PFUnDA_IS	5.0000	5.0446	ng/mL
PFPeA-13C_IS	Auto	3.973	1033837	1033837	----	5.0000	5.0000	ng/mL
PFHxA	Auto	4.228	745321	2911474	PFHxA-13C_IS	1.0000	0.9797	ng/mL
PFHxA-13C	Auto	4.228	2911474	4597226	13C7-PFUnDA_IS	5.0000	5.0066	ng/mL
PFHxA-13C_IS	Auto	4.228	2911474	2911474	----	5.0000	5.0000	ng/mL
PFHpA	M	4.409	589343	2588571	PFHpA-13C_IS	1.0000	0.9437	ng/mL
PFHpA-13C	Auto	4.409	2588571	4597226	13C7-PFUnDA_IS	5.0000	4.9084	ng/mL
PFHpA-13C_IS	Auto	4.409	2588571	2588571	----	5.0000	5.0000	ng/mL
PFOA	Auto	4.578	958224	3635090	PFOA-13C_IS	1.0000	0.9614	ng/mL
PFOA-13C	Auto	4.578	3635090	4597226	13C7-PFUnDA_IS	5.0000	5.1558	ng/mL
PFOA-13C_IS	Auto	4.578	3635090	3635090	----	5.0000	5.0000	ng/mL
PFNA	Auto	4.751	638663	3135904	PFNA-13C_IS	1.0000	0.9849	ng/mL
PFNA-13C	Auto	4.751	3135904	4597226	13C7-PFUnDA_IS	5.0000	5.1625	ng/mL
PFNA-13C_IS	Auto	4.751	3135904	3135904	----	5.0000	5.0000	ng/mL
PFDA	Auto	4.933	606281	2160525	PFDA-13C_IS	1.0000	0.9954	ng/mL
PFDA-13C	Auto	4.933	2160525	4597226	13C7-PFUnDA_IS	5.0000	5.1158	ng/mL
PFDA-13C_IS	Auto	4.933	2160525	2160525	----	5.0000	5.0000	ng/mL
PFUnA	Auto	5.119	726569	3323875	PFUnA-13C_IS	1.0000	0.9876	ng/mL
PFUnA-13C	Auto	5.119	3323875	4597226	13C7-PFUnDA_IS	5.0000	5.2197	ng/mL
PFUnA-13C_IS	Auto	5.119	3323875	3323875	----	5.0000	5.0000	ng/mL
PFDoA	Auto	5.300	670951	3608563	PFDoA-13C_IS	1.0000	1.0440	ng/mL
PFDoA-13C	Auto	5.299	3608563	4597226	13C7-PFUnDA_IS	5.0000	5.1375	ng/mL
PFDoA-13C_IS	Auto	5.299	3608563	3608563	----	5.0000	5.0000	ng/mL
PFTrDA	Auto	5.462	746636	3586409	PFTeDA-13C_IS	1.0000	1.0197	ng/mL
PFTeDA	Auto	5.610	787258	3586409	PFTeDA-13C_IS	1.0000	0.9914	ng/mL
PFTeDA-13C	Auto	5.609	3586409	4597226	13C7-PFUnDA_IS	5.0000	5.0889	ng/mL
PFTeDA-13C_IS	Auto	5.609	3586409	3586409	----	5.0000	5.0000	ng/mL
FOSA	Auto	5.222	359507	1439755	FOSA-13C_IS	1.0000	1.0412	ng/mL
FOSA-13C	Auto	5.222	1439755	4597226	13C7-PFUnDA_IS	5.0000	4.9238	ng/mL
FOSA-13C_IS	Auto	5.222	1439755	1439755	----	5.0000	5.0000	ng/mL
N-MeFOSA	Auto	5.609	125199	330281	N-MeFOSA-d3_IS	1.0000	0.9957	ng/mL
N-MeFOSA-d3	Auto	5.607	330281	4597226	13C7-PFUnDA_IS	5.0000	5.0341	ng/mL
N-MeFOSA-d3_IS	Auto	5.607	330281	330281	----	5.0000	5.0000	ng/mL
N-EtFOSA	M	5.733	22150	382395	N-EtFOSA-d9_IS	1.0000	0.9557	ng/mL
N-EtFOSA-d9	Auto	5.728	382395	4597226	13C7-PFUnDA_IS	5.0000	5.0030	ng/mL
N-EtFOSA-d9_IS	Auto	5.728	382395	382395	----	5.0000	5.0000	ng/mL

210909_011 (continued)

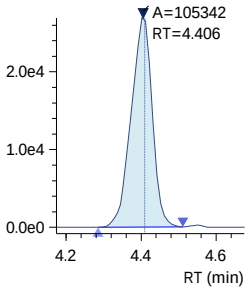
(Table continued from previous page)

Name	Mode ID	Found RT	Area	ISTD Area	ISTD Name	Std. Conc.	Conc.	Unit
N-MeFOSE	Auto	5.590	186048	506245	N-MeFOSE-d7_IS	1.0000	1.0224	ng/mL
N-MeFOSE-d7	Auto	5.583	506245	4597226	13C7-PFUnDA_IS	5.0000	5.0109	ng/mL
N-MeFOSE-d7_IS	Auto	5.583	506245	506245	----	5.0000	5.0000	ng/mL
N-EtFOSE	Auto	5.711	166426	480956	N-EtFOSE-d9_IS	1.0000	0.9984	ng/mL
N-EtFOSE-d9	Auto	5.701	480956	4597226	13C7-PFUnDA_IS	5.0000	5.0271	ng/mL
N-EtFOSE-d9_IS	Auto	5.701	480956	480956	----	5.0000	5.0000	ng/mL
N-MeFOSAA	Auto	5.033	98651	579902	N-MeFOSAA-d3_IS	1.0000	1.0259	ng/mL
N-MeFOSAA-d3	Auto	5.031	579902	4597226	13C7-PFUnDA_IS	5.0000	4.9964	ng/mL
N-MeFOSAA-d3_IS	Auto	5.031	579902	579902	----	5.0000	5.0000	ng/mL
N-EtFOSAA	Auto	5.133	75923	518335	N-EtFOSAA-d5_IS	1.0000	0.9884	ng/mL
N-EtFOSAA-d5	Auto	5.130	518335	4597226	13C7-PFUnDA_IS	5.0000	5.2814	ng/mL
N-EtFOSAA-d5_IS	Auto	5.130	518335	518335	----	5.0000	5.0000	ng/mL
4_2-FTS_1	Auto	4.204	97287	523381	4_2-FTS-13C_IS	0.9372	1.0294	ng/mL
4_2-FTS-13C	Auto	4.202	523381	4597226	13C7-PFUnDA_IS	5.0000	4.8114	ng/mL
4_2-FTS-13C_IS	Auto	4.202	523381	523381	----	5.0000	5.0000	ng/mL
6_2-FTS_1	Auto	4.565	126830	493850	6_2-FTS-13C_IS	0.9512	0.9842	ng/mL
6_2-FTS-13C	Auto	4.568	493850	4597226	13C7-PFUnDA_IS	5.0000	5.3734	ng/mL
6_2-FTS-13C_IS	Auto	4.568	493850	493850	----	5.0000	5.0000	ng/mL
8_2-FTS_1	Auto	4.931	71513	356948	8_2-FTS-13C_IS	0.9600	1.0486	ng/mL
8_2-FTS-13C	Auto	4.932	356948	4597226	13C7-PFUnDA_IS	5.0000	5.3426	ng/mL
8_2-FTS-13C_IS	Auto	4.932	356948	356948	----	5.0000	5.0000	ng/mL
10_2-FtS_1	Auto	5.305	53702	356948	8_2-FTS-13C_IS	0.9662	0.9700	ng/mL
HPFO_DA	Auto	4.295	99208	487223	HFPO_DA-13C_IS	1.0000	1.0185	ng/mL
HFPO_DA-13C	Auto	4.295	487223	4597226	13C7-PFUnDA_IS	5.0000	4.9459	ng/mL
HFPO_DA-13C_IS	Auto	4.295	487223	487223	----	5.0000	5.0000	ng/mL

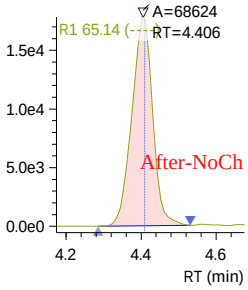


210909_011 (continued)

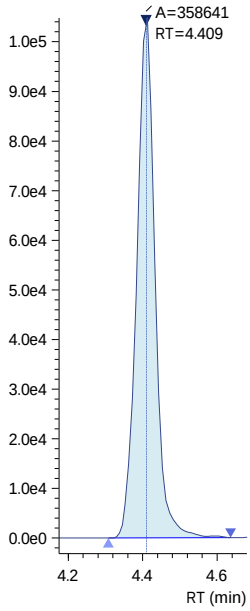
PFHxS_1
Conc 0.8947
R#1 65.14 (62.92)
Q 399.00>80.00 (-) 2.69e4



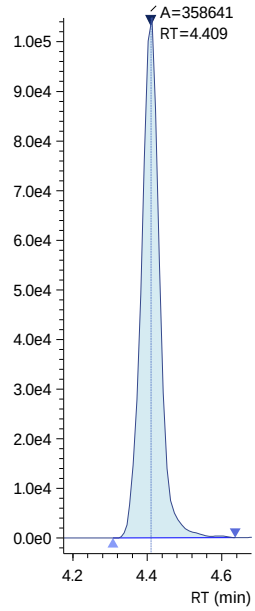
R1 399.00>99.00 (-) 1.78e4



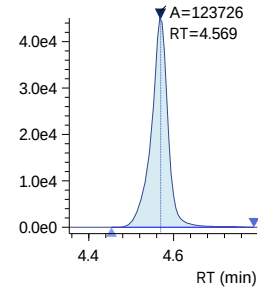
PFHxS-18O
Conc 5.0305
Q 402.70>84.05 (-) 1.05e5



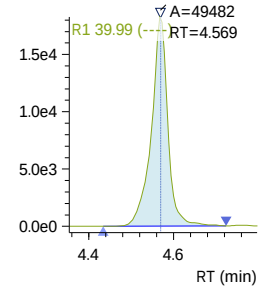
PFHxS-18O_IS
Conc 5.0000
ISTD 402.70>84.05 (-) 1.05e5



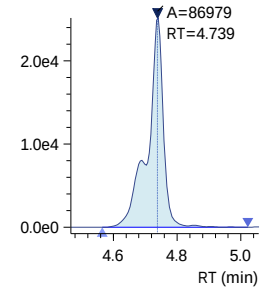
PFHpS_1
Conc 1.0041
R#1 39.99 (40.53)
Q 449.00>80.15 (-) 4.51e4



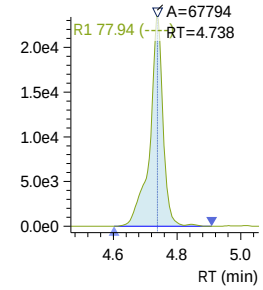
R1 449.00>99.20 (-) 1.83e4



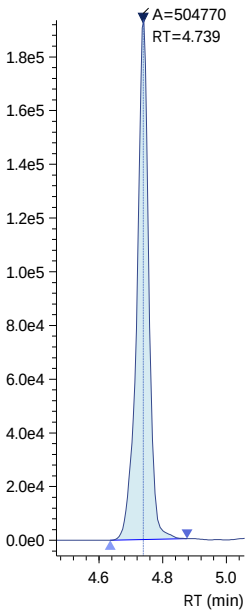
PFOS_1
Conc 0.9207
R#1 77.94 (73.81)
Q 499.00>80.00 (-) 2.51e4



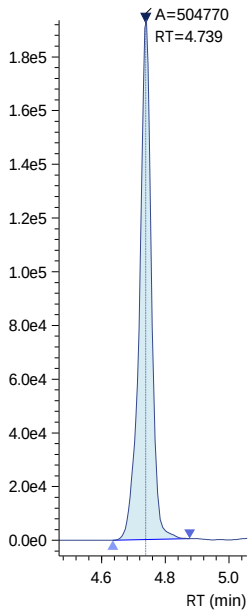
R1 499.00>99.00 (-) 2.34e4



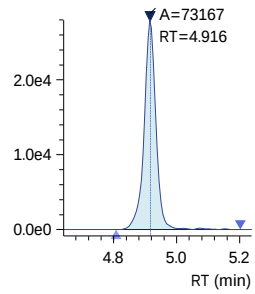
PFOS-13C
Conc 5.1811
Q 502.80>80.05 (-) 1.94e5



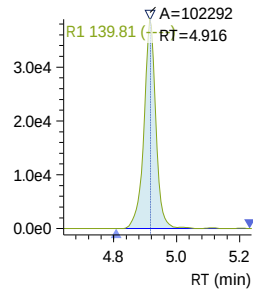
PFOS-13C_IS
Conc 5.0000
ISTD 502.80>80.05 (-) 1.94e5



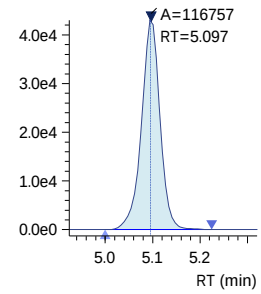
PFNS
Conc 1.0665
R#1 139.81 (160.25)
Q 549.00>99.00 (-) 2.80e4



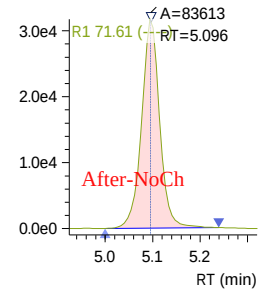
R1 549.00>79.95 (-) 3.89e4



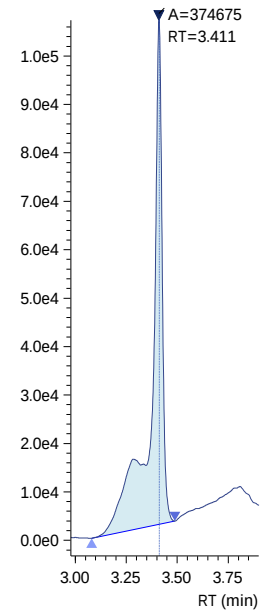
PFDS_1
Conc 0.9825
R#1 71.61 (72.12)
Q 599.00>79.90 (-) 4.30e4



R1 599.00>99.10 (-) 3.18e4

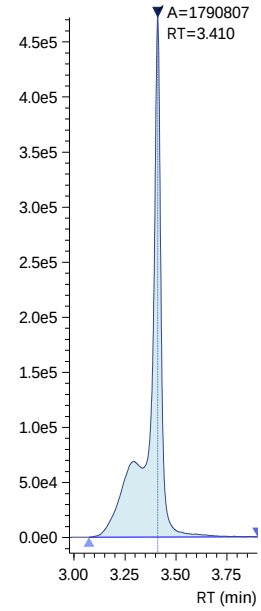


PFBA
Conc 0.9341
Q 213.00>169.10 (-) 1.07e5

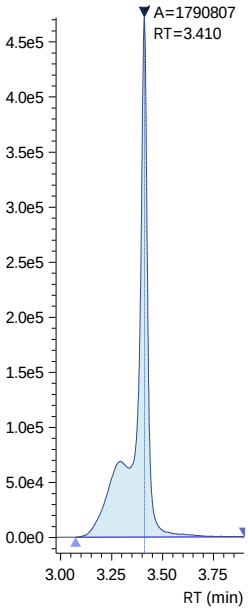


210909_011 (continued)

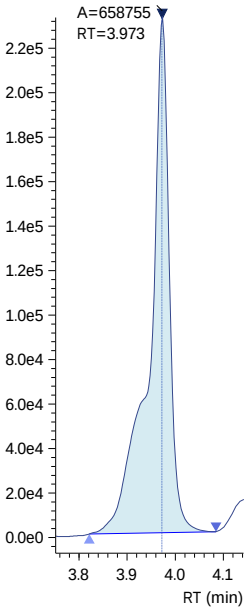
PFBA-13C
Conc 4.9940
Q 216.90>172.15 (-) 4.72e5



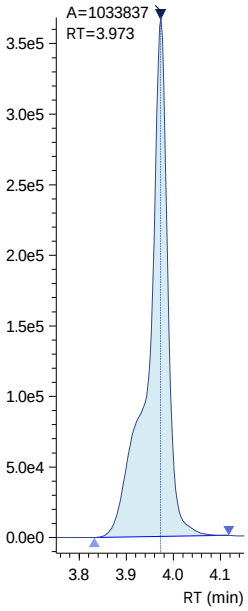
PFBA-13C_IS
Conc 5.0000
ISTD 216.90>172.15 (-) 4.72e5



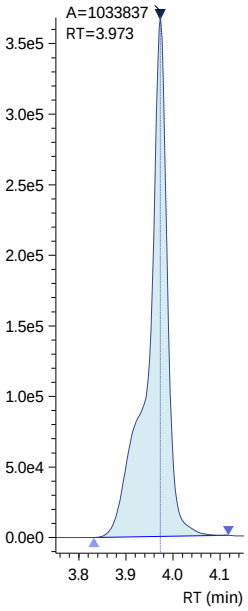
PFPeA
Conc 1.0134
Q 263.05>219.10 (-) 2.34e5



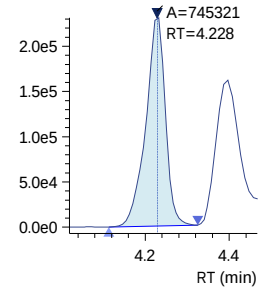
PFPeA-13C
Conc 5.0446
Q 267.90>223.00 (-) 3.68e5



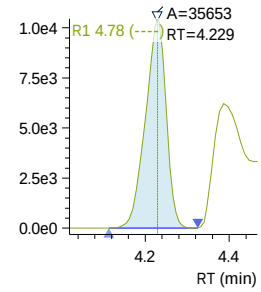
PFPeA-13C_IS
Conc 5.0000
ISTD 267.90>223.00 (-) 3.68e5



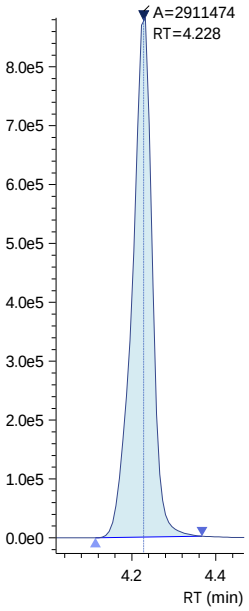
PFHxA
Conc 0.9797
R#1 4.78 (4.40)
Q 313.00>269.00 (-) 2.31e5



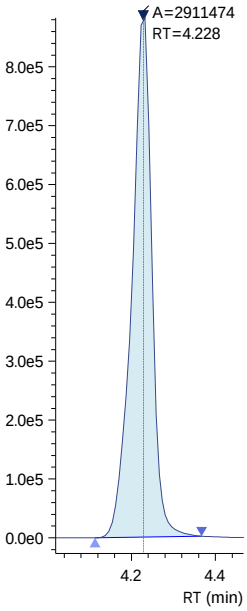
R1 313.00>119.10 (-) 1.05e4



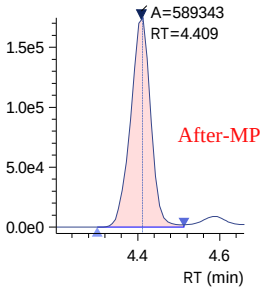
PFHxA-13C
Conc 5.0066
Q 314.90>270.10 (-) 8.83e5



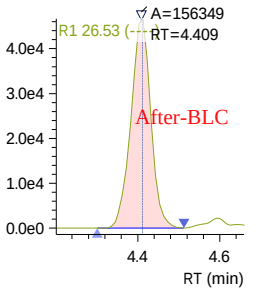
PFHxA-13C_IS
Conc 5.0000
ISTD 314.90>270.10 (-) 8.83e5



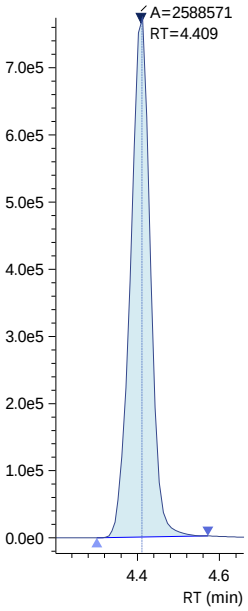
PFHpA
Conc 0.9437
R#1 26.53 (24.40)
Q 362.90>319.00 (-) 1.75e5



R1 362.90>169.00 (-) 4.67e4

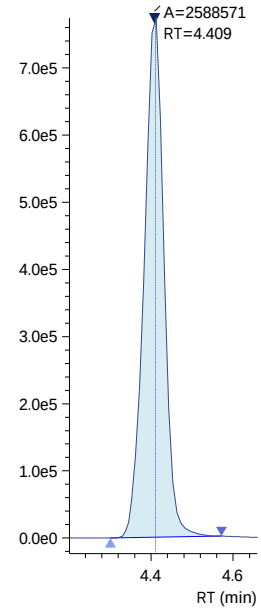


PFHpA-13C
Conc 4.9084
Q 366.90>322.10 (-) 7.75e5

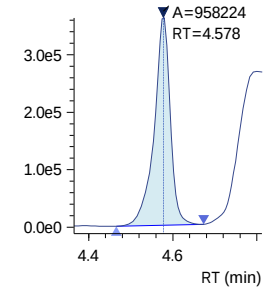


210909_011 (continued)

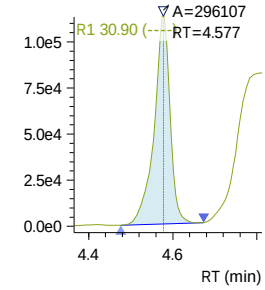
PFHpA-13C_IS
Conc 5.0000
ISTD 366.90>322.10 (-) 7.75e5



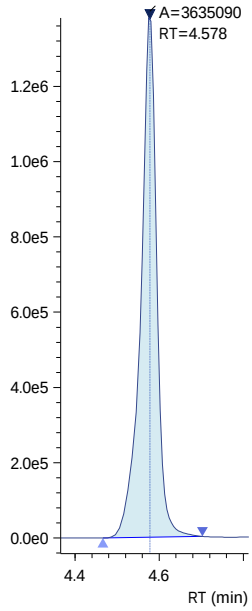
PFOA
Conc 0.9614
R#1 30.90 (31.89)
Q 413.00>369.00 (-) 3.64e5



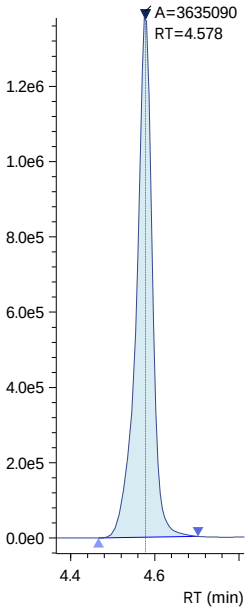
R1 413.00>169.10 (-) 1.14e5



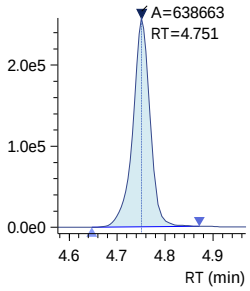
PFOA-13C
Conc 5.1558
Q 416.80>372.05 (-) 1.38e6



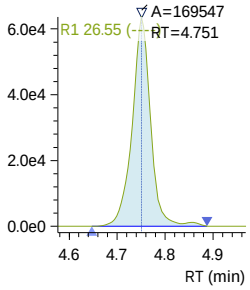
PFOA-13C_IS
Conc 5.0000
ISTD 416.80>372.05 (-) 1.38e6



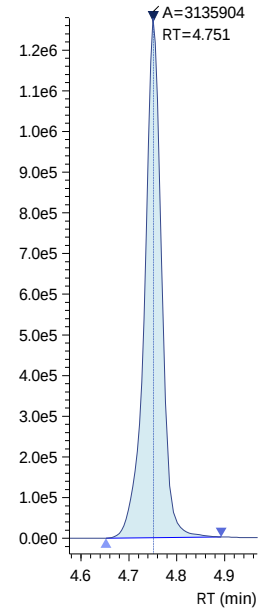
PFNA
Conc 0.9849
R#1 26.55 (23.25)
Q 463.00>418.90 (-) 2.58e5



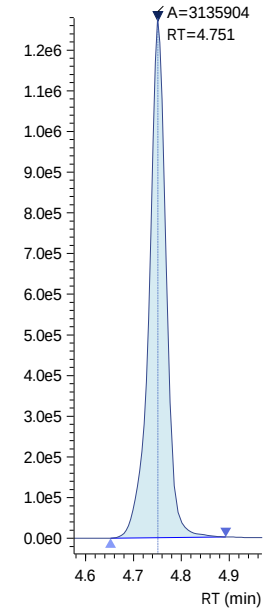
R1 463.00>219.00 (-) 6.36e4



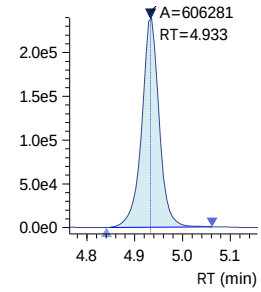
PFNA-13C
Conc 5.1625
Q 467.80>423.00 (-) 1.28e6



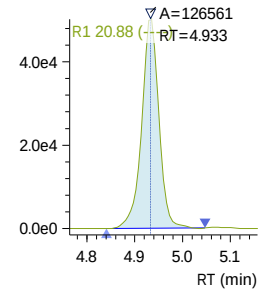
PFNA-13C_IS
Conc 5.0000
ISTD 467.80>423.00 (-) 1.28e6



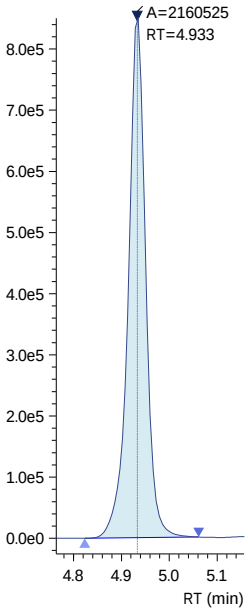
PFDA
Conc 0.9954
R#1 20.88 (20.24)
Q 513.00>468.80 (-) 2.39e5



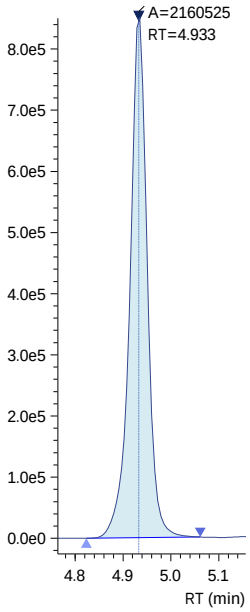
R1 513.00>219.10 (-) 5.02e4



PFDA-13C
Conc 5.1158
Q 514.80>469.95 (-) 8.50e5

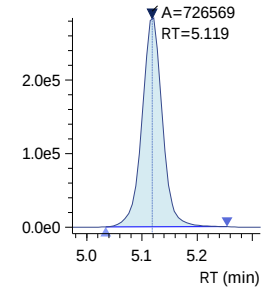


PFDA-13C_IS
Conc 5.0000
ISTD 514.80>469.95 (-) 8.50e5

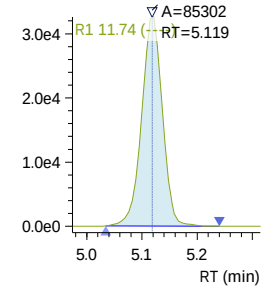


210909_011 (continued)

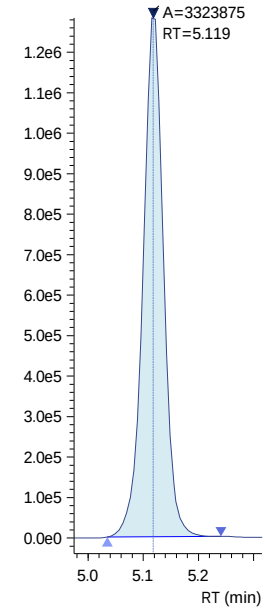
PFUnA
Conc 0.9876
R#1 11.74 (12.46)
Q 563.00>518.90 (-) 2.84e5



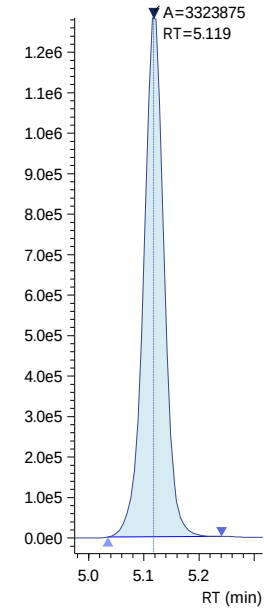
R1 563.00>219.00 (-) 3.26e4



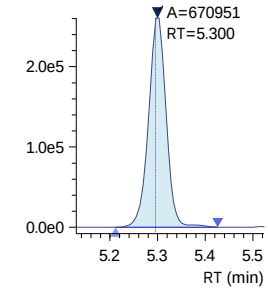
PFUnA-13C
Conc 5.2197
Q 564.80>519.95 (-) 1.28e6



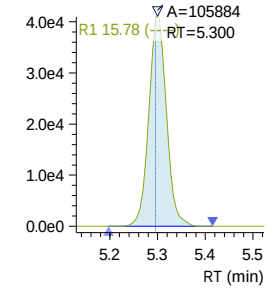
PFUnA-13C_IS
Conc 5.0000
ISTD 564.80>519.95 (-) 1.28e6



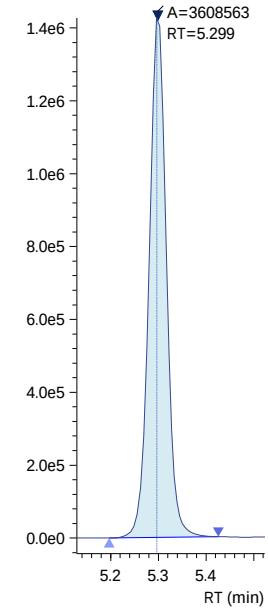
PFDoA
Conc 1.0440
R#1 15.78 (16.50)
Q 613.05>569.00 (-) 2.61e5



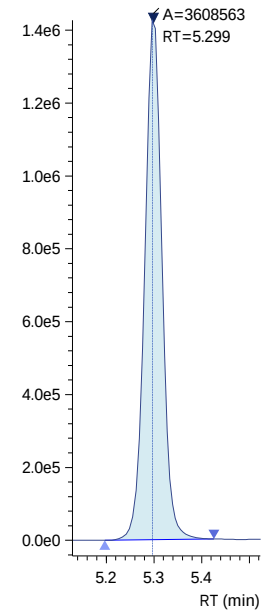
R1 613.05>169.00 (-) 4.09e4



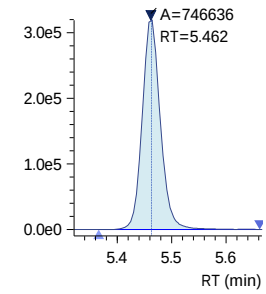
PFDoA-13C
Conc 5.1375
Q 614.80>569.95 (-) 1.43e6



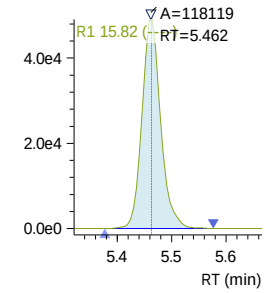
PFDoA-13C_IS
Conc 5.0000
ISTD 614.80>569.95 (-) 1.43e6



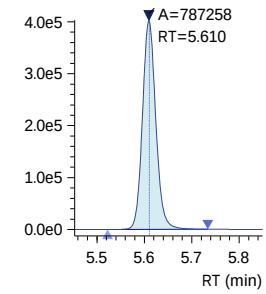
PFTrDA
Conc 1.0197
R#1 15.82 (15.29)
Q 663.00>618.90 (-) 3.19e5



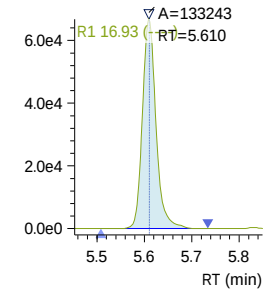
R1 662.90>169.00 (-) 4.91e4



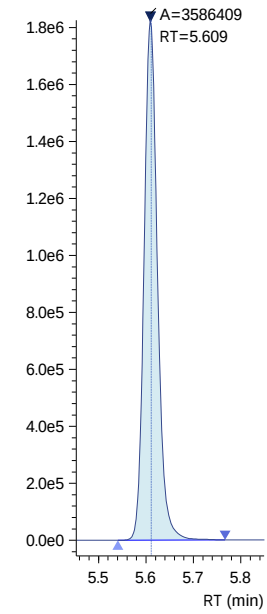
PFTeDA
Conc 0.9914
R#1 16.93 (17.47)
Q 713.00>669.00 (-) 4.03e5



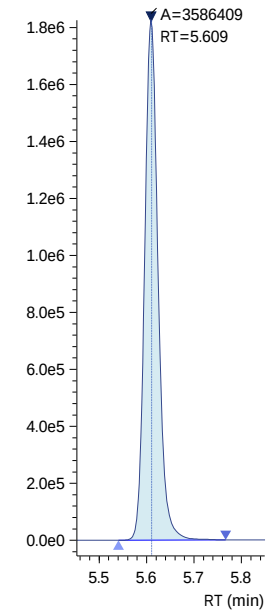
R1 713.00>169.10 (-) 6.68e4



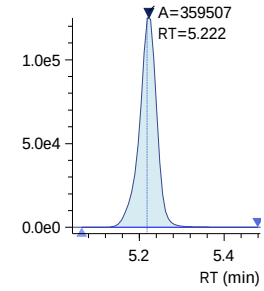
PFTeDA-13C
Conc 5.0889
Q 714.70>669.90 (-) 1.83e6

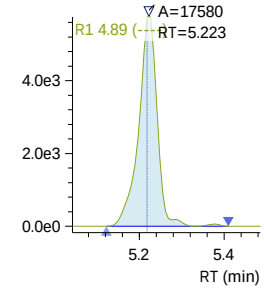


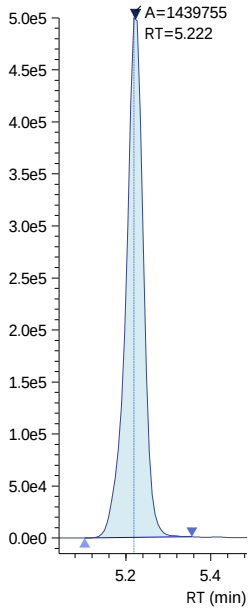
PFTeDA-13C_IS
Conc 5.0000
ISTD 714.70>669.90 (-) 1.83e6

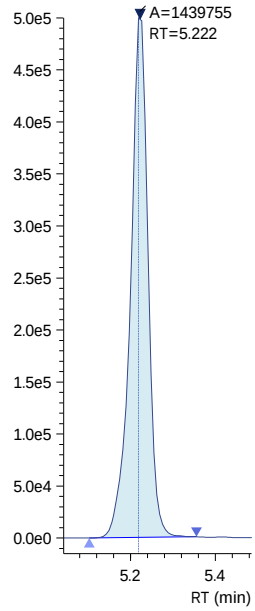


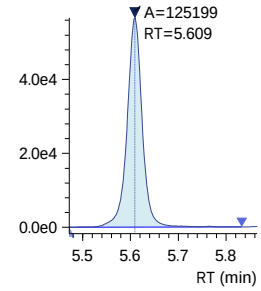
210909_011 (continued)

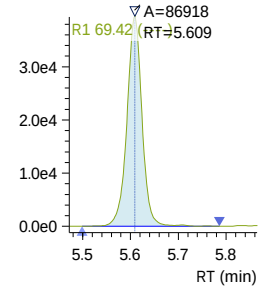
FOSA
Conc 1.0412
R#1 4.89 (5.19)
Q 498.20>78.00 (-) 1.25e5


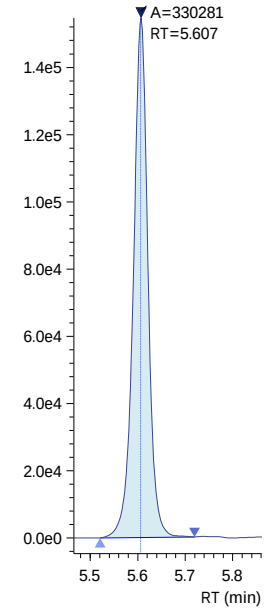
R1 498.20>64.10 (-) 5.75e3


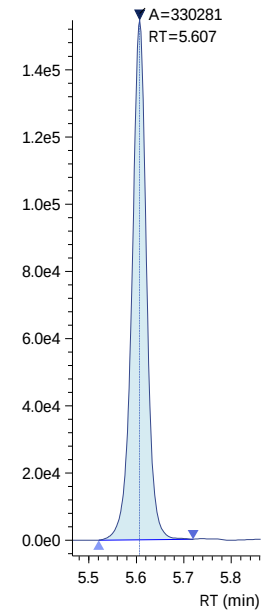
FOSA-13C
Conc 4.9238
Q 506.00>78.05 (-) 5.00e5


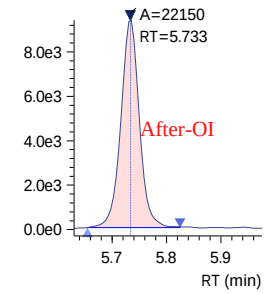
FOSA-13C_IS
Conc 5.0000
ISTD 506.00>78.05 (-) 5.00e5


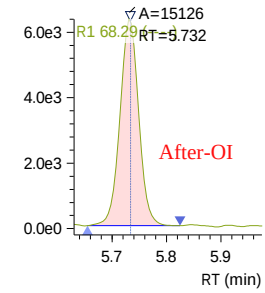
N-MeFOSA
Conc 0.9957
R#1 69.42 (69.94)
Q 512.00>169.10 (-) 5.66e4


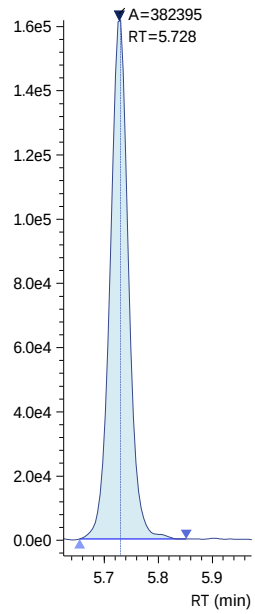
R1 512.00>219.00 (-) 3.94e4


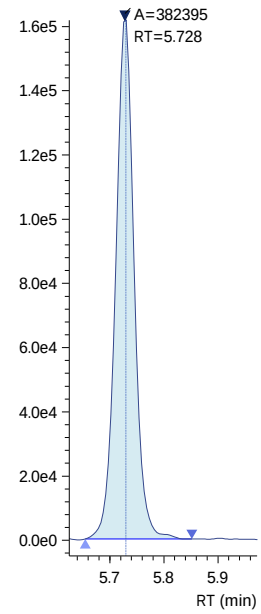
N-MeFOSA-d3
Conc 5.0341
Q 514.90>168.90 (-) 1.55e5


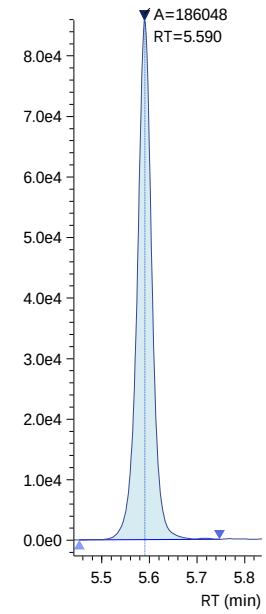
N-MeFOSA-d3_IS
Conc 5.0000
ISTD 514.90>168.90 (-) 1.55e5


N-MeFOSA
Conc 0.9557
R#1 68.29 (66.52)
Q 526.90>169.10 (-) 9.42e3


R1 526.90>219.00 (-) 6.40e3


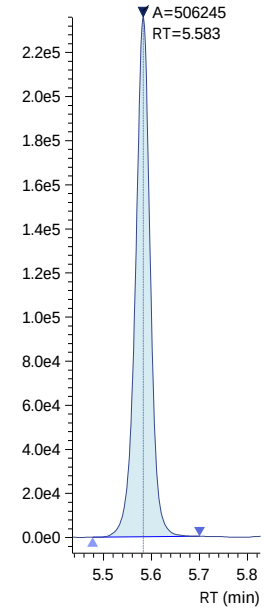
N-EtFOSA-d9
Conc 5.0030
Q 530.90>169.15 (-) 1.62e5


N-EtFOSA-d9_IS
Conc 5.0000
ISTD 530.90>169.15 (-) 1.62e5


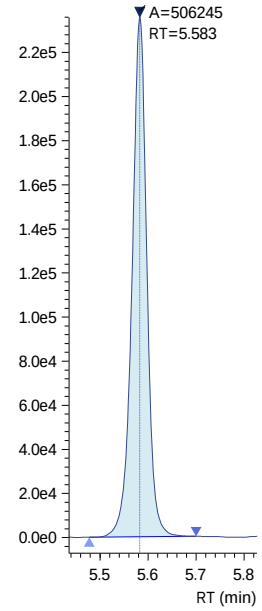
N-MeFOSE
Conc 1.0224
Q 616.00>59.00 (-) 8.59e4


210909_011 (continued)

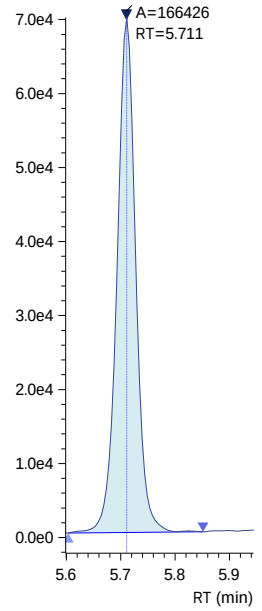
N-MeFOSE-d7
Conc 5.0109
Q 622.70>59.10 (-) 2.36e5



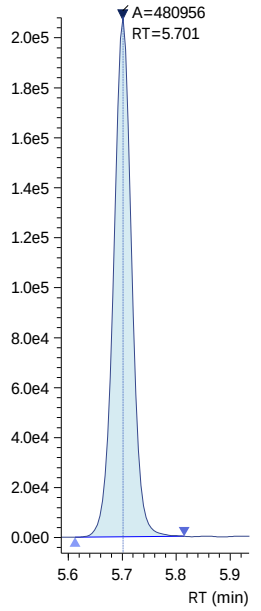
N-MeFOSE-d7_IS
Conc 5.0000
ISTD 622.70>59.10 (-) 2.36e5



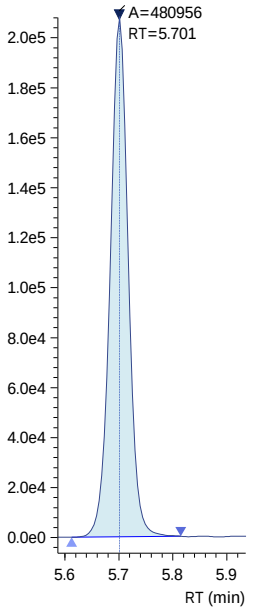
N-EtFOSE
Conc 0.9984
Q 630.00>58.90 (-) 7.03e4



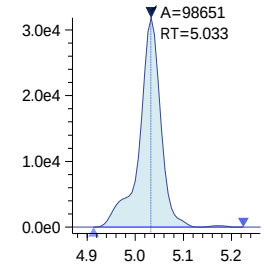
N-EtFOSE-d9
Conc 5.0271
Q 638.70>59.10 (-) 2.08e5



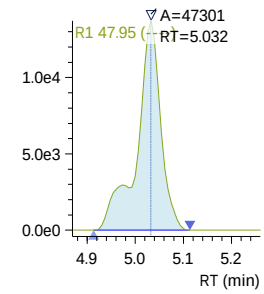
N-EtFOSE-d9_IS
Conc 5.0000
ISTD 638.70>59.10 (-) 2.08e5



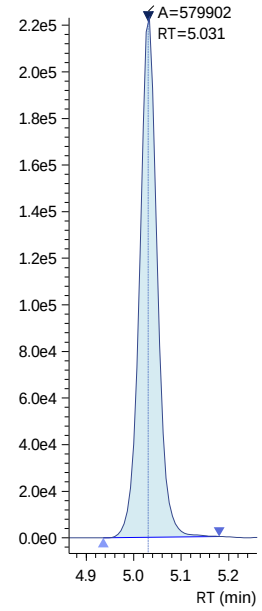
N-MeFOSAA
Conc 1.0259
R#1 47.95 (39.56)
Q 570.20>419.00 (-) 3.18e4



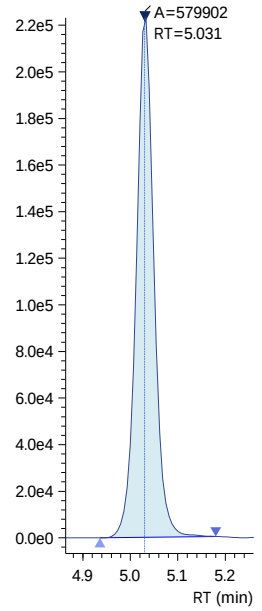
R1 570.20>512.00 (-) 1.37e4



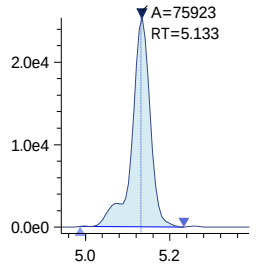
N-MeFOSAA-d3
Conc 4.9964
Q 572.80>419.05 (-) 2.23e5



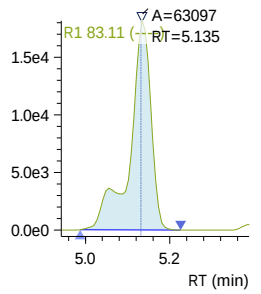
N-MeFOSAA-d3_IS
Conc 5.0000
ISTD 572.80>419.05 (-) 2.23e5



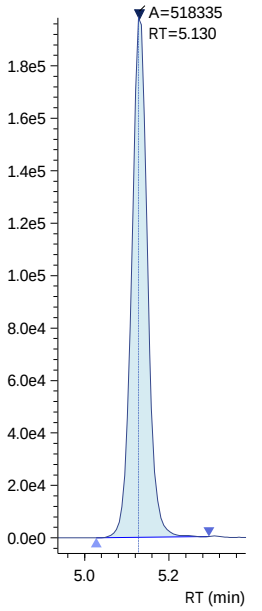
N-EtFOSAA
Conc 0.9884
R#1 83.11 (84.54)
Q 584.20>418.95 (-) 2.54e4



R1 584.20>526.10 (-) 1.82e4

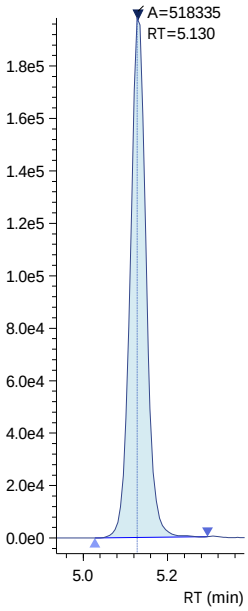


N-EtFOSAA-d5
Conc 5.2814
Q 588.80>419.00 (-) 1.98e5

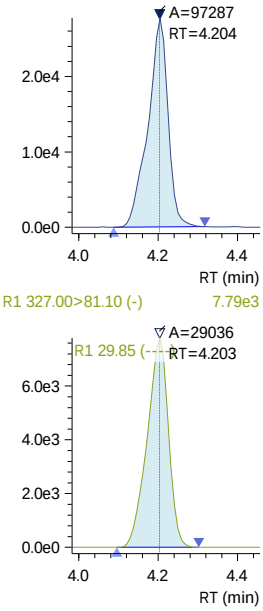


210909_011 (continued)

N-EtFOSAA-d5_IS
Conc 5.0000
ISTD 588.80>419.00 (-) 1.98e5

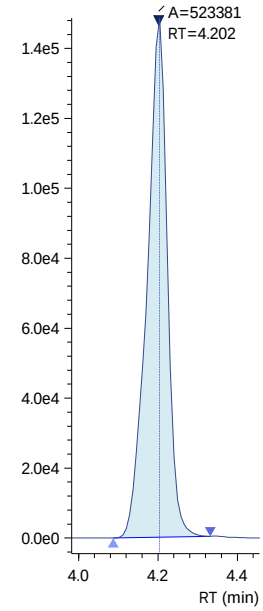


4_2-FTS_1
Conc 1.0294
R#1 29.85 (34.12)
Q 327.00>307.05 (-) 2.78e4

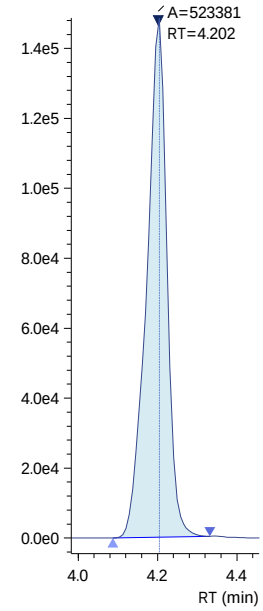


R1 327.00>81.10 (-) 7.79e3

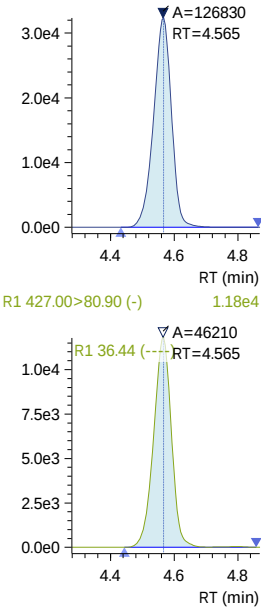
4_2-FTS-13C
Conc 4.8114
Q 328.80>309.05 (-) 1.49e5



4_2-FTS-13C_IS
Conc 5.0000
ISTD 328.80>309.05 (-) 1.49e5

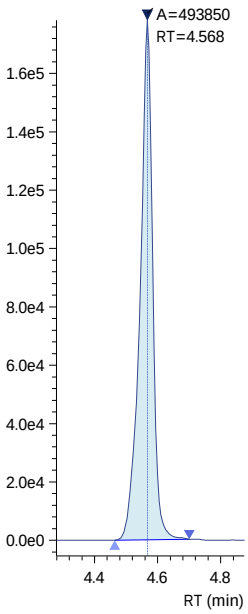


6_2-FTS_1
Conc 0.9842
R#1 36.44 (37.36)
Q 427.00>407.00 (-) 3.23e4

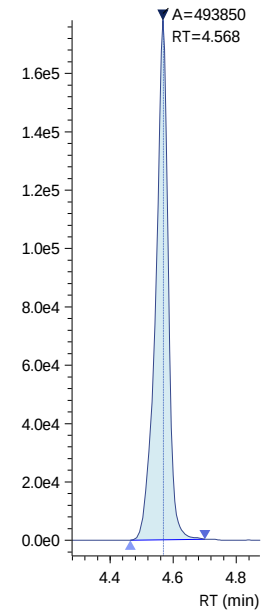


R1 427.00>80.90 (-) 1.18e4

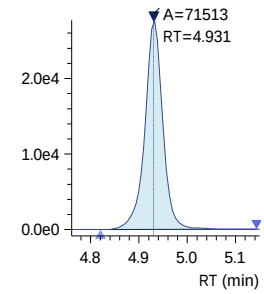
6_2-FTS-13C
Conc 5.3734
Q 428.90>409.00 (-) 1.78e5



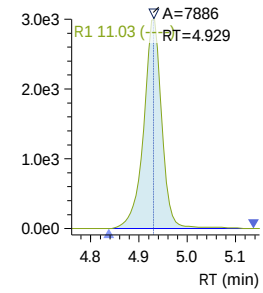
6_2-FTS-13C_IS
Conc 5.0000
ISTD 428.90>409.00 (-) 1.78e5



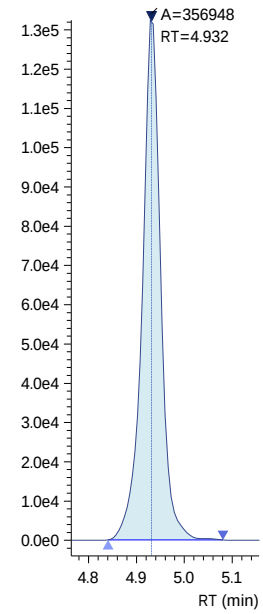
8_2-FTS_1
Conc 1.0486
R#1 11.03 (10.63)
Q 527.10>506.90 (-) 2.77e4



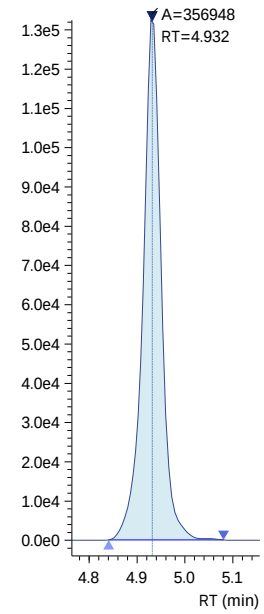
R1 527.20>487.00 (-) 3.00e3



8_2-FTS-13C
Conc 5.3426
Q 528.80>509.00 (-) 1.32e5

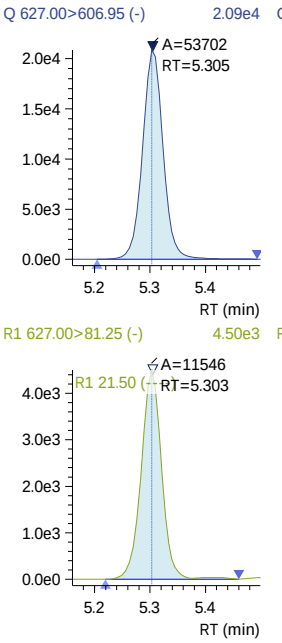


8_2-FTS-13C_IS
Conc 5.0000
ISTD 528.80>509.00 (-) 1.32e5

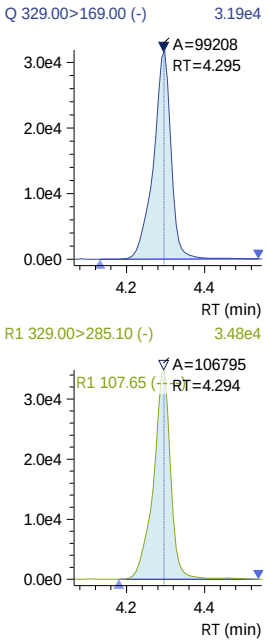


210909_011 (continued)

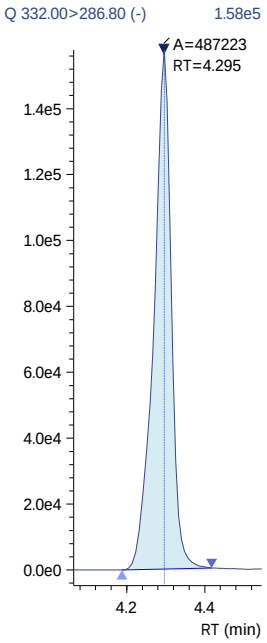
10_2-FtS_1
Conc 0.9700
R#1 21.50 (21.61)



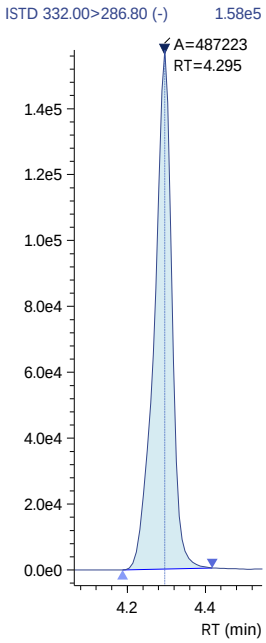
HPFO_DA
Conc 1.0185
R#1 107.65 (106.46)



HFPO_DA-13C
Conc 4.9459



HFPO_DA-13C_IS
Conc 5.0000

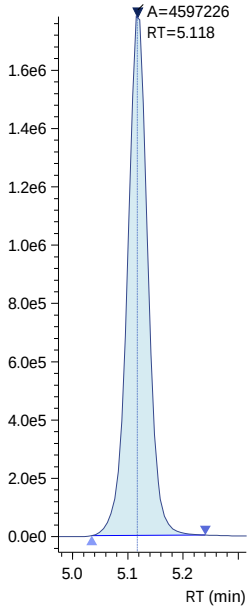


Insight Report
Before Manual Integration
Printed 9/9/2021 15:44:22

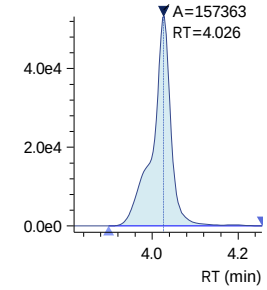
210909_011

Sample ID: PFC ICAL @ 1.0ppb
Date Acquired: 9/9/2021 2:26:21 PM
Acquired by: System Administrator
Data File: 210909_011
Vial: 4 | Inj. Volume: 15.0000uL | Tray: 0

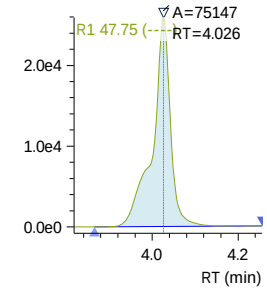
13C7-PFUnDA_IS
Conc 5.0000
ISTD 570.00>525.00 (-) 1.78e6



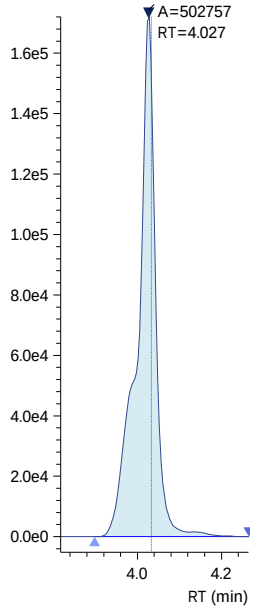
PFBS_1
Conc 0.9061
R#1 47.75 (46.55)
Q 299.00>80.00 (-) 5.32e4



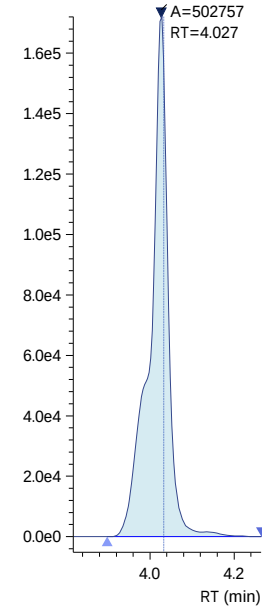
R1 298.80>99.00 (-) 2.59e4



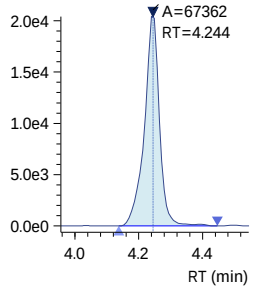
PFBS-13C
Conc 5.0299
Q 301.80>80.00 (-) 1.72e5



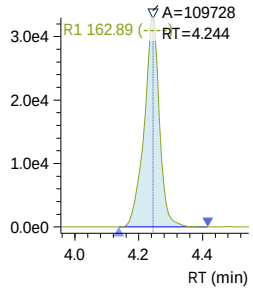
PFBS-13C_IS
Conc 5.0000
ISTD 301.80>80.00 (-) 1.72e5



PFPeS
Conc 0.9230
R#1 162.89 (154.38)
Q 349.00>99.00 (-) 2.04e4

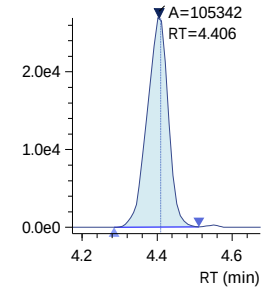


R1 349.00>79.95 (-) 3.30e4

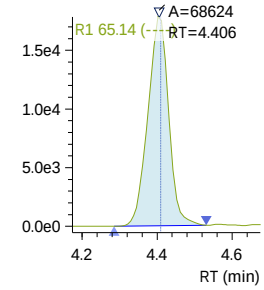


210909_011 (continued)

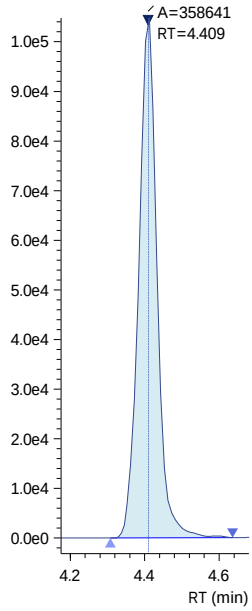
PFHxS_1
Conc 0.8240
R#1 65.14 (76.59)
Q 399.00>80.00 (-) 2.69e4



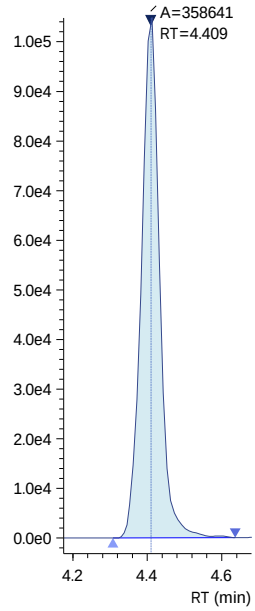
R1 399.00>99.00 (-) 1.78e4



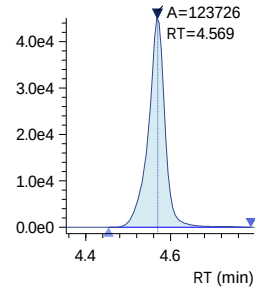
PFHxS-18O
Conc 5.0305
Q 402.70>84.05 (-) 1.05e5



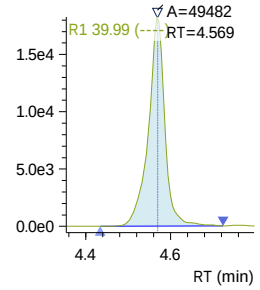
PFHxS-18O_IS
Conc 5.0000
ISTD 402.70>84.05 (-) 1.05e5



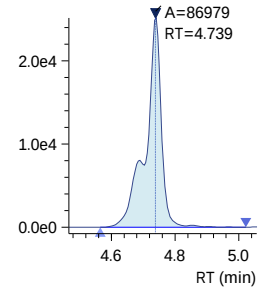
PFHpS_1
Conc 0.9912
R#1 39.99 (53.58)
Q 449.00>80.15 (-) 4.51e4



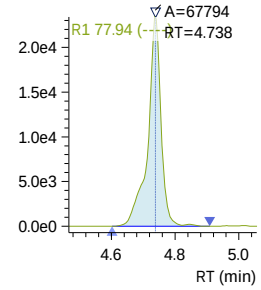
R1 449.00>99.20 (-) 1.83e4



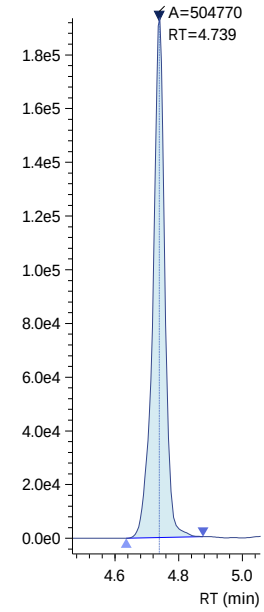
PFOS_1
Conc 0.9165
R#1 77.94 (84.68)
Q 499.00>80.00 (-) 2.51e4



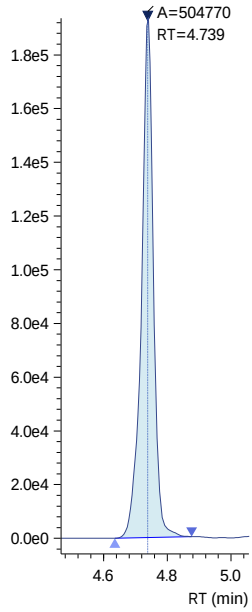
R1 499.00>99.00 (-) 2.34e4



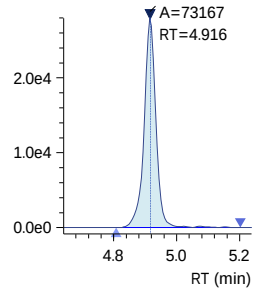
PFOS-13C
Conc 5.1811
Q 502.80>80.05 (-) 1.94e5



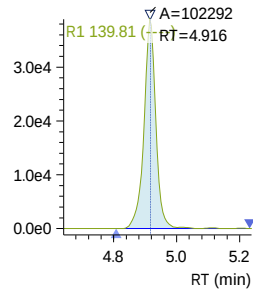
PFOS-13C_IS
Conc 5.0000
ISTD 502.80>80.05 (-) 1.94e5



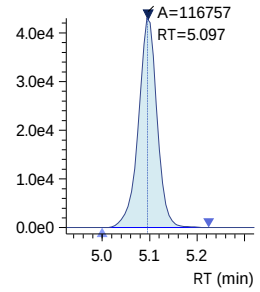
PFNS
Conc 1.0547
R#1 139.81 (133.04)
Q 549.00>99.00 (-) 2.80e4



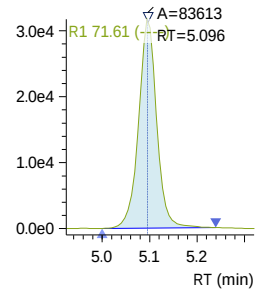
R1 549.00>79.95 (-) 3.89e4



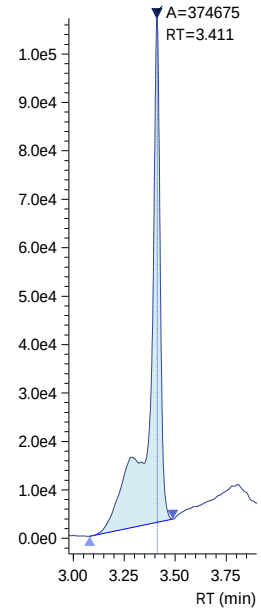
PFDS_1
Conc 0.9765
R#1 71.61 (89.20)
Q 599.00>79.90 (-) 4.30e4



R1 599.00>99.10 (-) 3.18e4

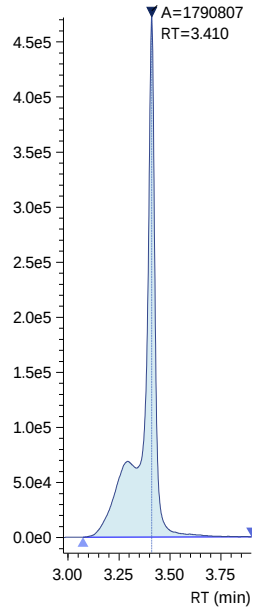


PFBA
Conc 0.9879
Q 213.00>169.10 (-) 1.07e5

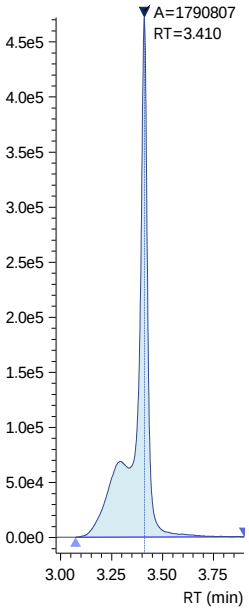


210909_011 (continued)

PFBA-13C
Conc 4.9940
Q 216.90>172.15 (-) 4.72e5



PFBA-13C_IS
Conc 5.0000
ISTD 216.90>172.15 (-) 4.72e5



PFPeA
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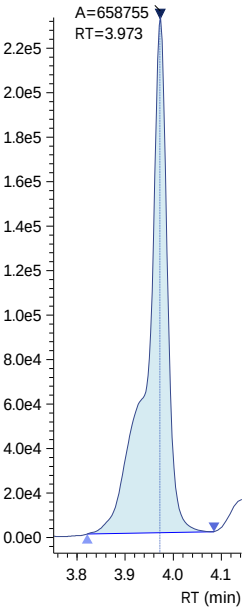
Q 263.05>219.10 (-) 2.34e5



PFPeA-13C
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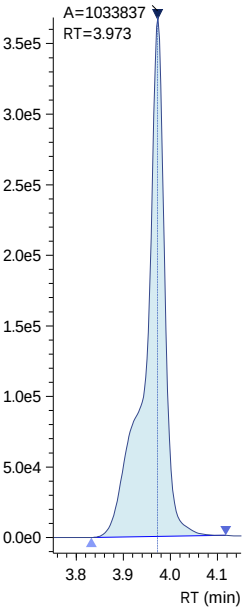
Q 267.90>223.00 (-) 3.68e5



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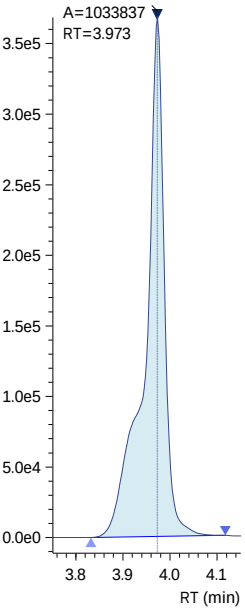
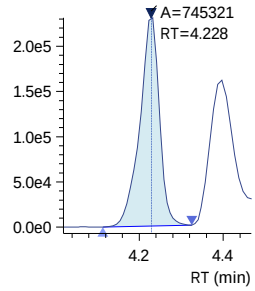
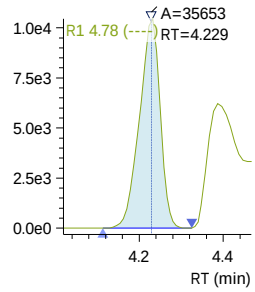
Conc 5.0000
ISTD 267.90>223.00 (-) 3.68e5



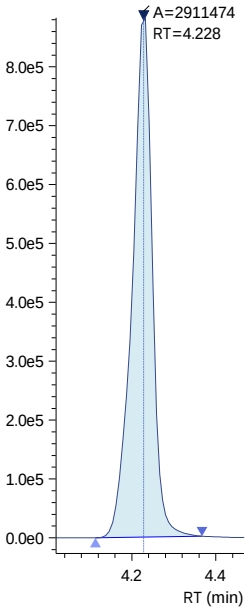
PFHxA
Conc 0.9797
R#1 4.78 (4.71)
Q 313.00>269.00 (-) 2.31e5



R1 313.00>119.10 (-) 1.05e4



PFHxA-13C
Conc 5.0066
Q 314.90>270.10 (-) 8.83e5



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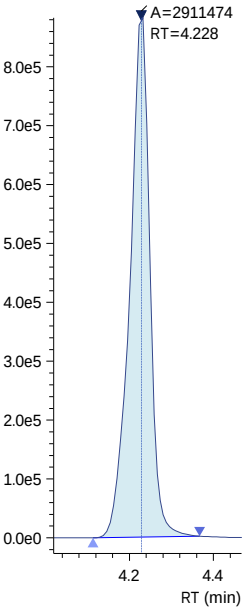
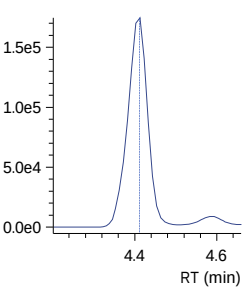
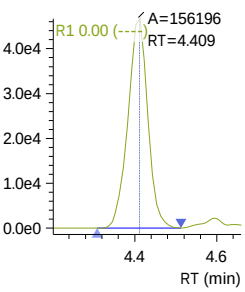
Conc 5.0000
ISTD 314.90>270.10 (-) 8.83e5



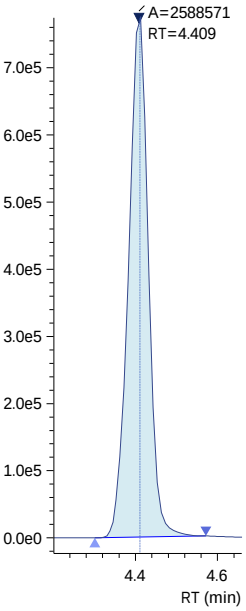
PFHpA
Conc ----
R#1 0.00 (24.79)
Q 362.90>319.00 (-) 1.75e5



R1 362.90>169.00 (-) 4.67e4



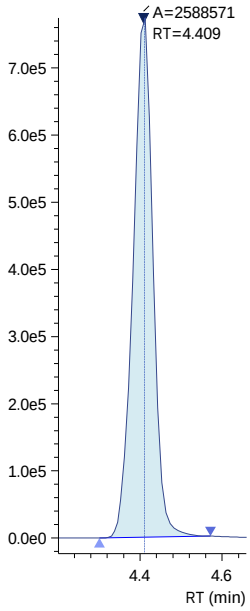
PFHpA-13C
Conc 4.9084
Q 366.90>322.10 (-) 7.75e5



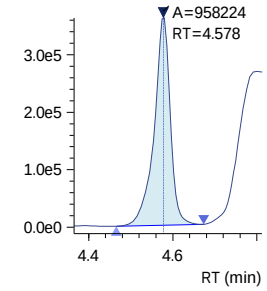
Insight Report
Before Manual Integration
Printed 9/9/2021 15:44:22

210909_011 (continued)

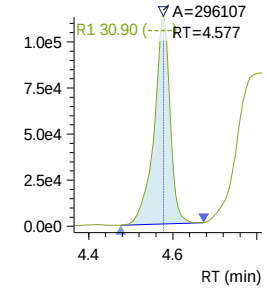
PFHpA-13C_IS
Conc 5.0000
ISTD 366.90>322.10 (-) 7.75e5



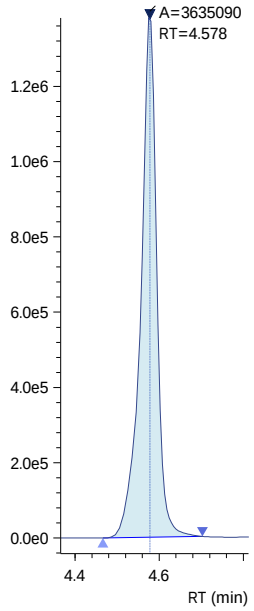
PFOA
Conc 1.0116
R#1 30.90 (30.61)
Q 413.00>369.00 (-) 3.64e5



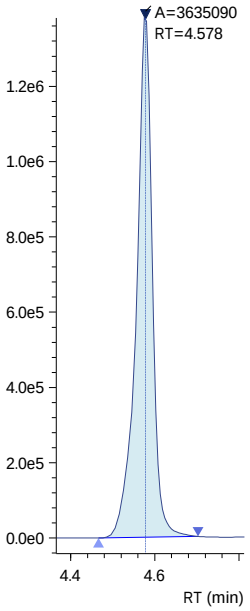
R1 413.00>169.10 (-) 1.14e5



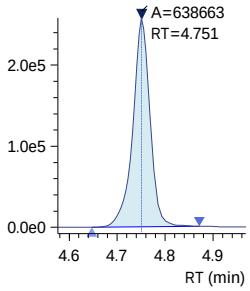
PFOA-13C
Conc 5.1558
Q 416.80>372.05 (-) 1.38e6



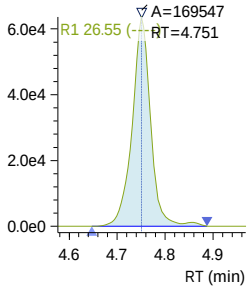
PFOA-13C_IS
Conc 5.0000
ISTD 416.80>372.05 (-) 1.38e6



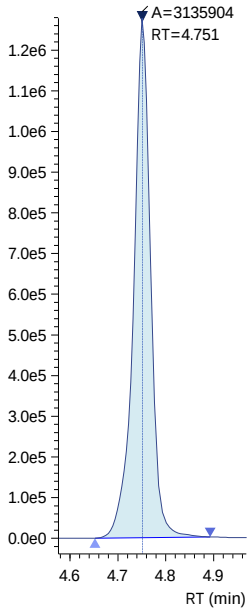
PFNA
Conc 0.9822
R#1 26.55 (23.82)
Q 463.00>418.90 (-) 2.58e5



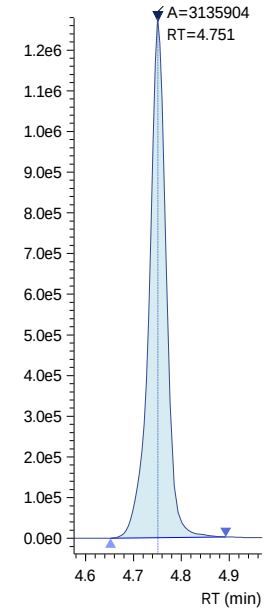
R1 463.00>219.00 (-) 6.36e4



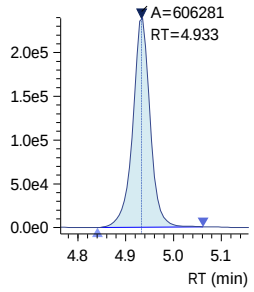
PFNA-13C
Conc 5.1625
Q 467.80>423.00 (-) 1.28e6



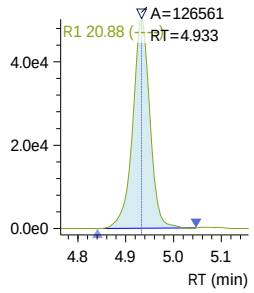
PFNA-13C_IS
Conc 5.0000
ISTD 467.80>423.00 (-) 1.28e6



PFDA
Conc 0.9954
R#1 20.88 (20.11)
Q 513.00>468.80 (-) 2.39e5



R1 513.00>219.10 (-) 5.02e4



PFDA-13C
Conc 5.1158
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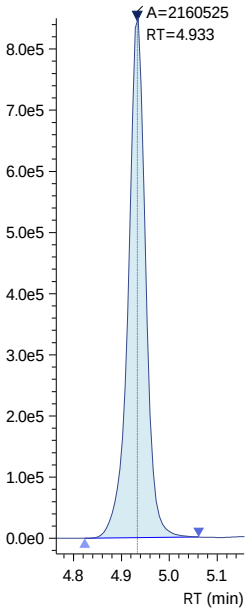

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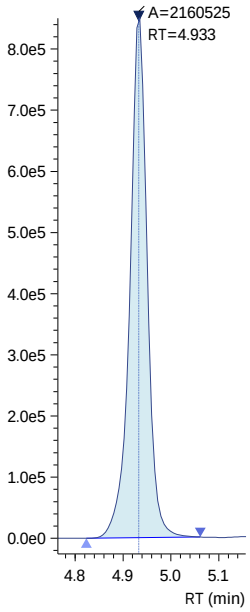

210909_011 (continued)

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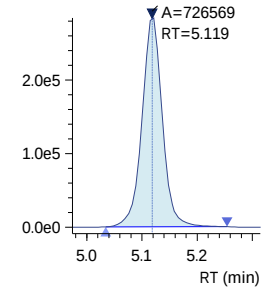
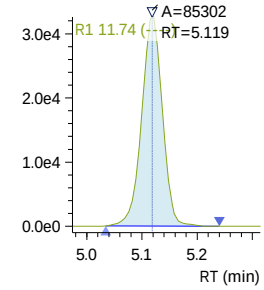


R1 563.00>219.00 (-) 3.26e4


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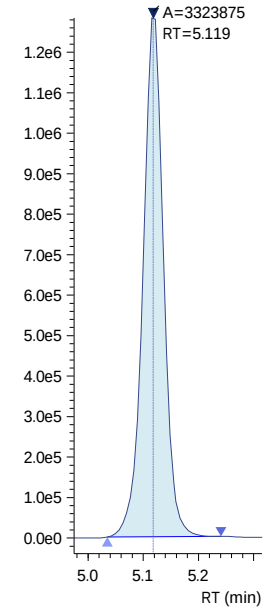

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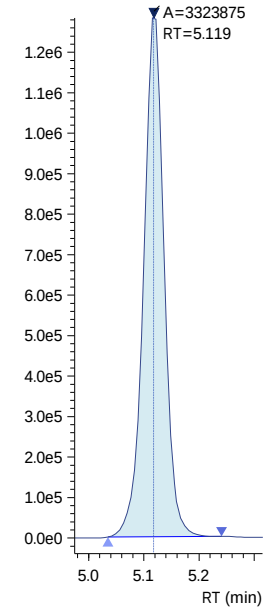

PFDoA
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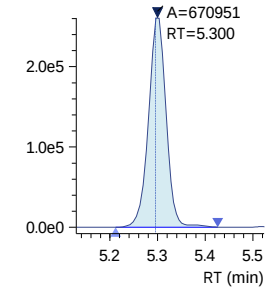
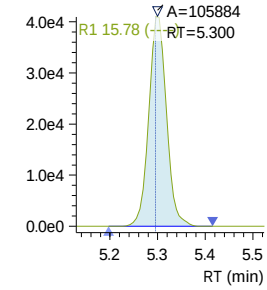


R1 613.05>169.00 (-) 4.09e4


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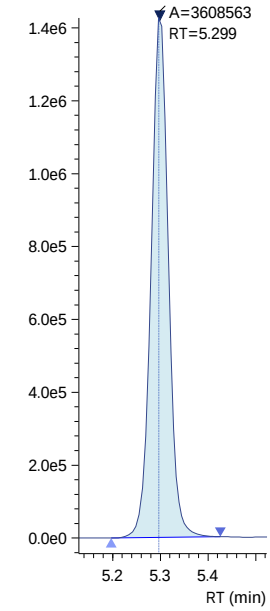

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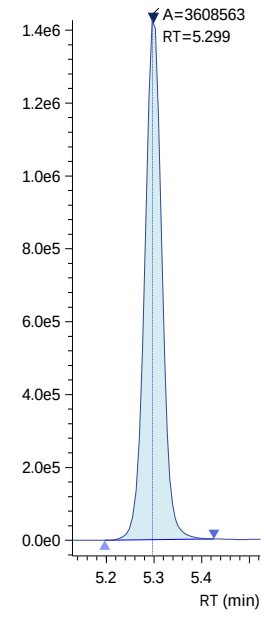

PFTrDA
Conc 1.0197
R#1 15.82 (14.03)
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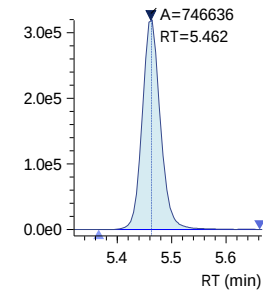
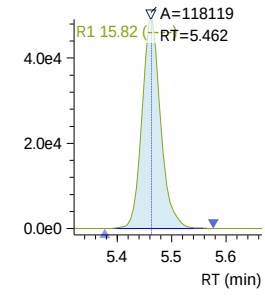


R1 662.90>169.00 (-) 4.91e4


PFTeDA
Conc 0.9914
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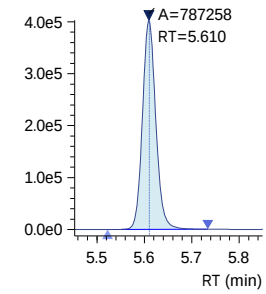
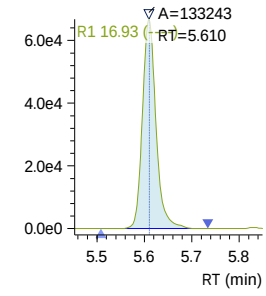


R1 713.00>169.10 (-) 6.68e4


PFTeDA-13C
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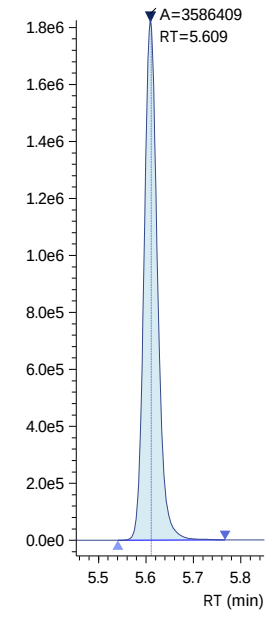
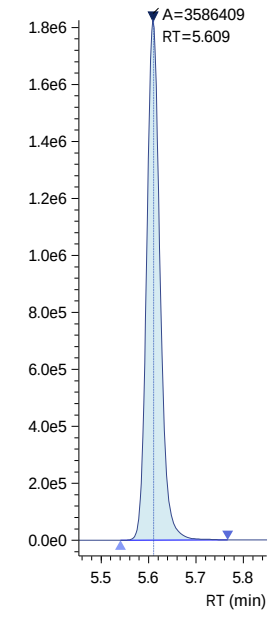
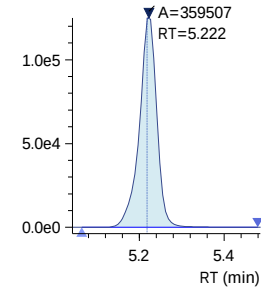
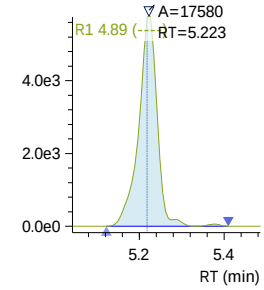
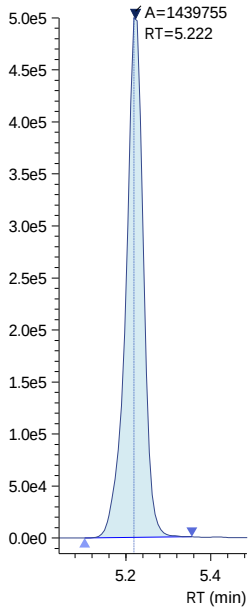
Q 714.70>669.90 (-) 1.83e6


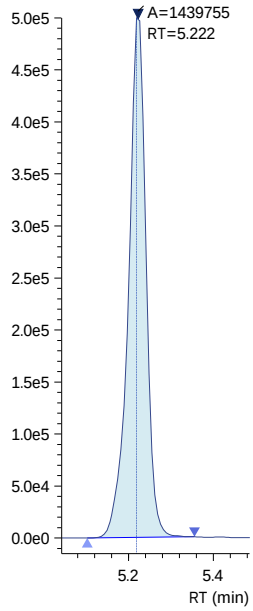
PFTeDA-13C_IS
Conc 5.0000
ISTD 714.70>669.90 (-) 1.83e6


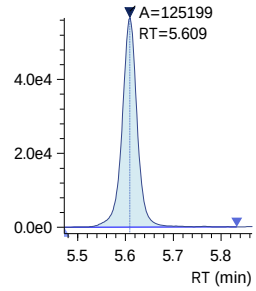
210909_011 (continued)

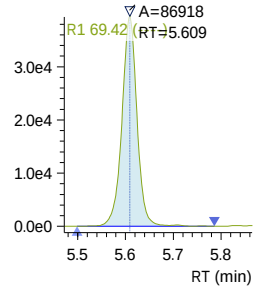
FOSA
Conc 1.0412
R#1 4.89 (4.71)
Q 498.20>78.00 (-) 1.25e5


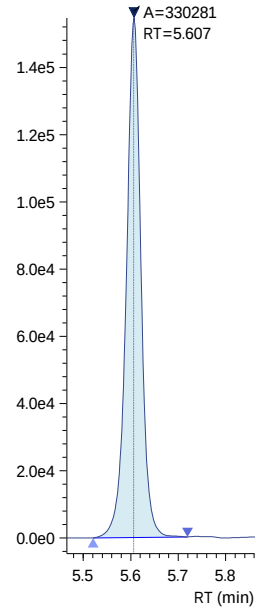
R1 498.20>64.10 (-) 5.75e3


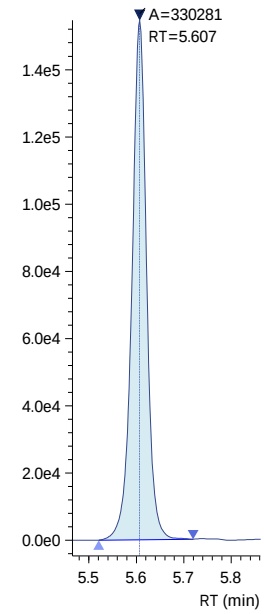
FOSA-13C
Conc 4.9238
Q 506.00>78.05 (-) 5.00e5


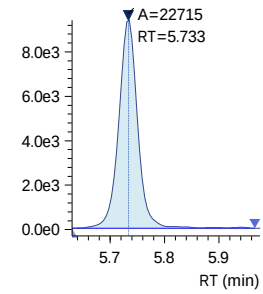
FOSA-13C_IS
Conc 5.0000
ISTD 506.00>78.05 (-) 5.00e5


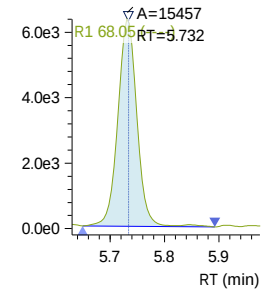
N-MeFOSA
Conc 0.9922
R#1 69.42 (66.26)
Q 512.00>169.10 (-) 5.66e4


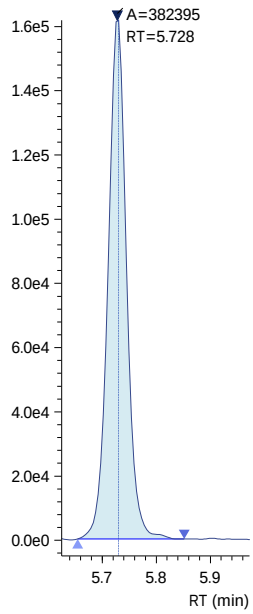
R1 512.00>219.00 (-) 3.94e4


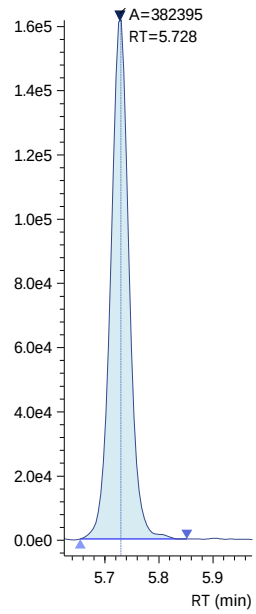
N-MeFOSA-d3
Conc 5.0341
Q 514.90>168.90 (-) 1.55e5


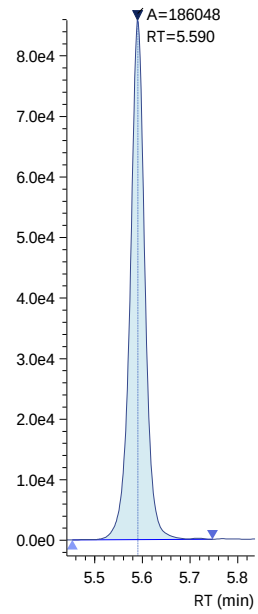
N-MeFOSA-d3_IS
Conc 5.0000
ISTD 514.90>168.90 (-) 1.55e5


N-EtFOSA
Conc 0.9524
R#1 68.05 (64.28)
Q 526.90>169.10 (-) 9.42e3


R1 526.90>219.00 (-) 6.40e3


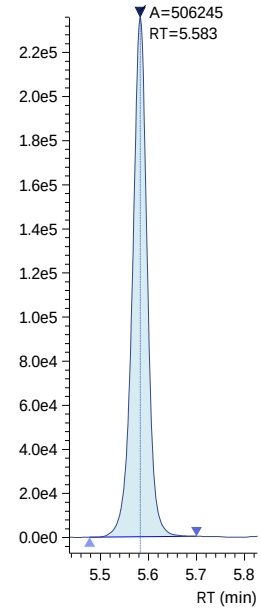
N-EtFOSA-d9
Conc 5.0030
Q 530.90>169.15 (-) 1.62e5


N-EtFOSA-d9_IS
Conc 5.0000
ISTD 530.90>169.15 (-) 1.62e5


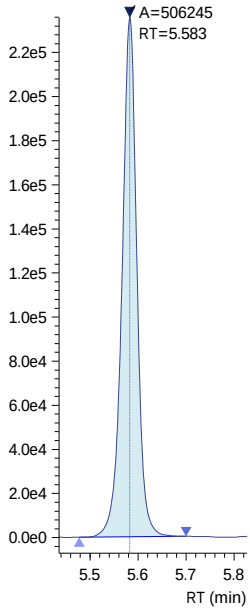
N-MeFOSE
Conc 1.0153
Q 616.00>59.00 (-) 8.59e4


210909_011 (continued)

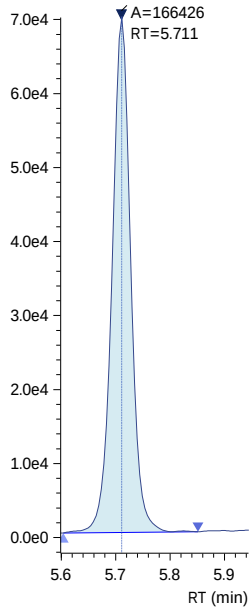
N-MeFOSE-d7
Conc 5.0109
Q 622.70>59.10 (-) 2.36e5



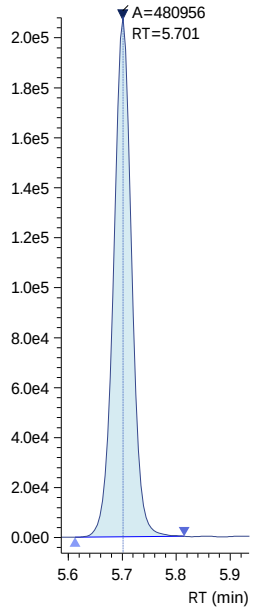
N-MeFOSE-d7_IS
Conc 5.0000
ISTD 622.70>59.10 (-) 2.36e5



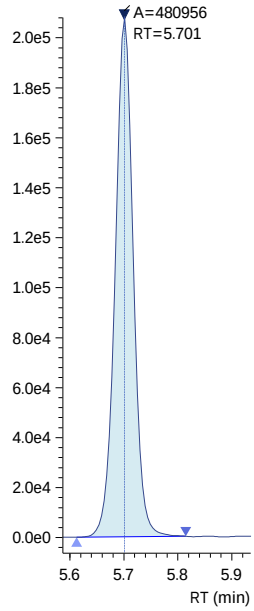
N-EtFOSE
Conc 0.9955
Q 630.00>58.90 (-) 7.03e4



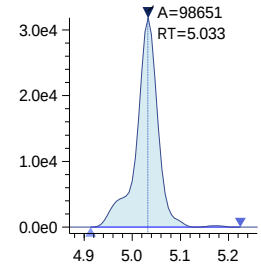
N-EtFOSE-d9
Conc 5.0271
Q 638.70>59.10 (-) 2.08e5



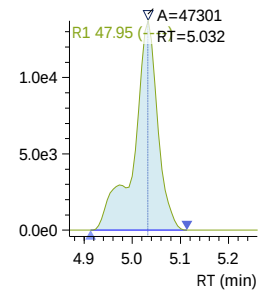
N-EtFOSE-d9_IS
Conc 5.0000
ISTD 638.70>59.10 (-) 2.08e5



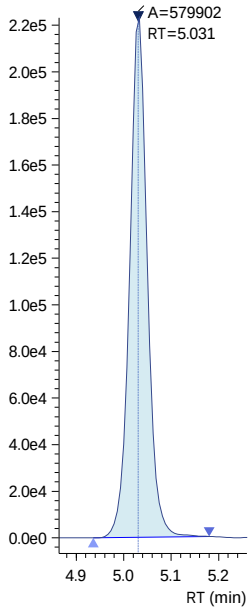
N-MeFOSAA
Conc 1.0259
R#1 47.95 (39.15)
Q 570.20>419.00 (-) 3.18e4



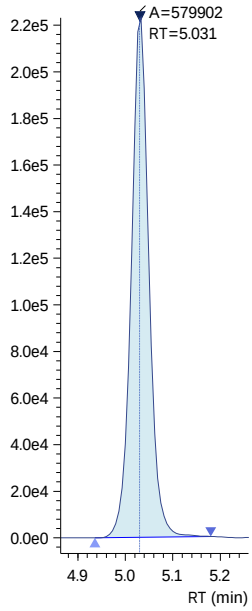
R1 570.20>512.00 (-) 1.37e4



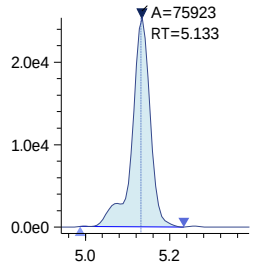
N-MeFOSAA-d3
Conc 4.9964
Q 572.80>419.05 (-) 2.23e5



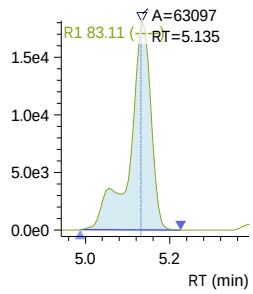
N-MeFOSAA-d3_IS
Conc 5.0000
ISTD 572.80>419.05 (-) 2.23e5



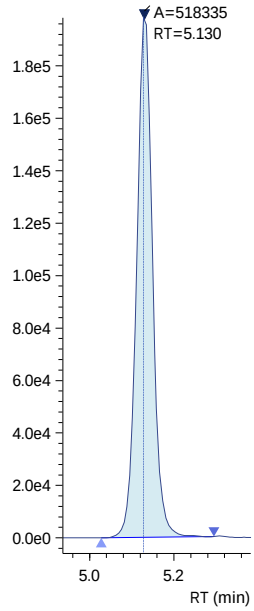
N-EtFOSAA
Conc 0.9884
R#1 83.11 (76.53)
Q 584.20>418.95 (-) 2.54e4



R1 584.20>526.10 (-) 1.82e4

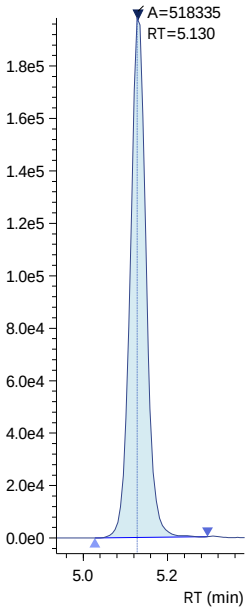


N-EtFOSAA-d5
Conc 5.2814
Q 588.80>419.00 (-) 1.98e5

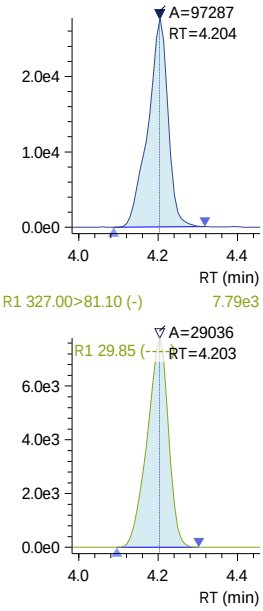


210909_011 (continued)

N-EtFOSAA-d5_IS
Conc 5.0000
ISTD 588.80>419.00 (-) 1.98e5

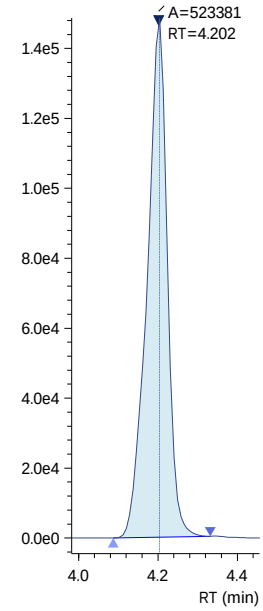


4_2-FTS_1
Conc 1.0294
R#1 29.85 (26.47)
Q 327.00>307.05 (-) 2.78e4

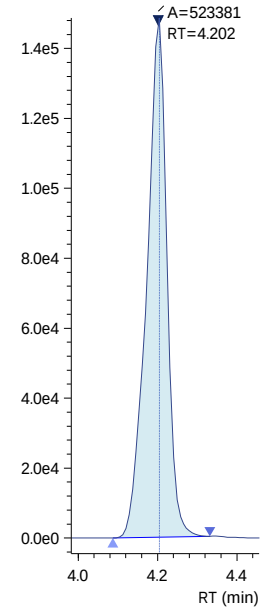


R1 327.00>81.10 (-) 7.79e3

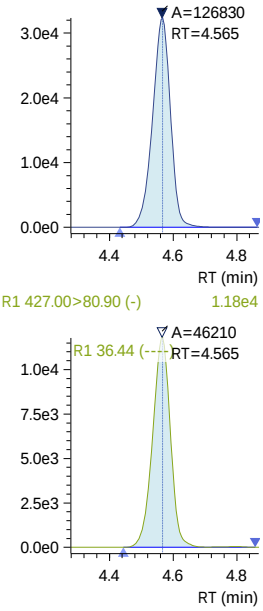
4_2-FTS-13C
Conc 4.8114
Q 328.80>309.05 (-) 1.49e5



4_2-FTS-13C_IS
Conc 5.0000
ISTD 328.80>309.05 (-) 1.49e5

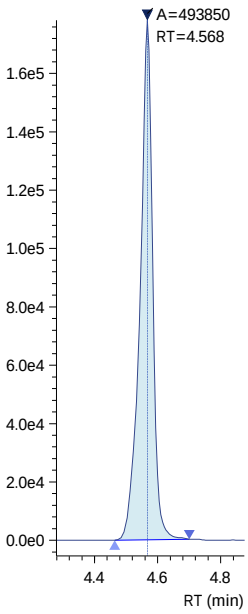


6_2-FTS_1
Conc 0.9792
R#1 36.44 (30.68)
Q 427.00>407.00 (-) 3.23e4

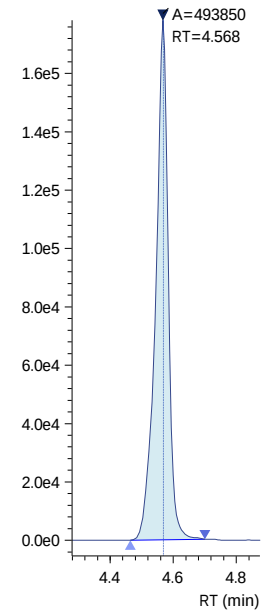


R1 427.00>80.90 (-) 1.18e4

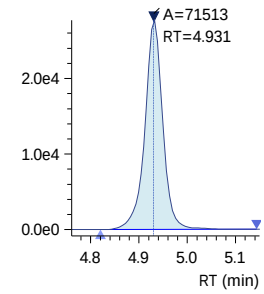
6_2-FTS-13C
Conc 5.3734
Q 428.90>409.00 (-) 1.78e5



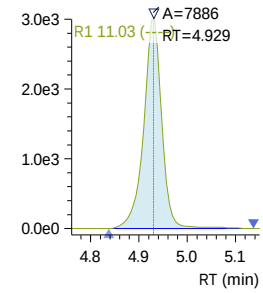
6_2-FTS-13C_IS
Conc 5.0000
ISTD 428.90>409.00 (-) 1.78e5



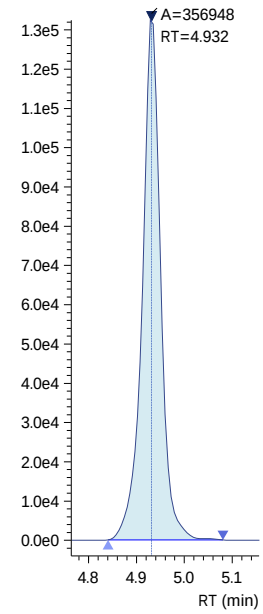
8_2-FTS_1
Conc 1.0486
R#1 11.03 (8.90)
Q 527.10>506.90 (-) 2.77e4



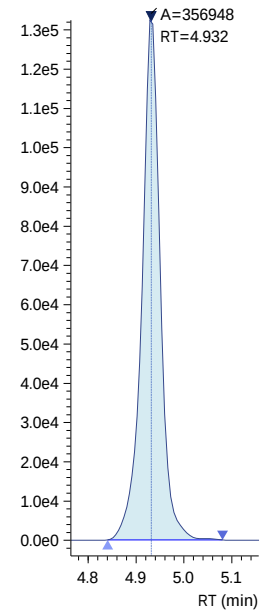
R1 527.20>487.00 (-) 3.00e3



8_2-FTS-13C
Conc 5.3426
Q 528.80>509.00 (-) 1.32e5

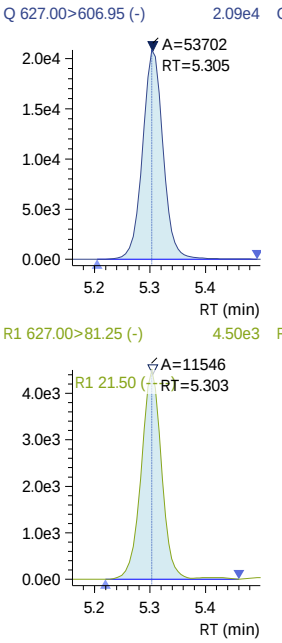


8_2-FTS-13C_IS
Conc 5.0000
ISTD 528.80>509.00 (-) 1.32e5

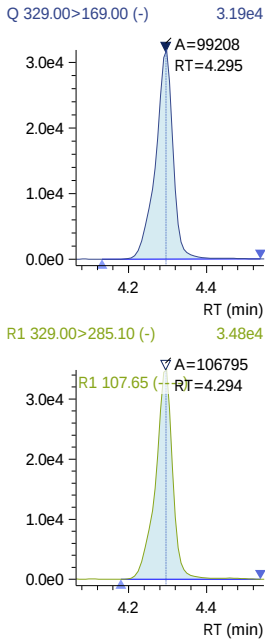


210909_011 (continued)

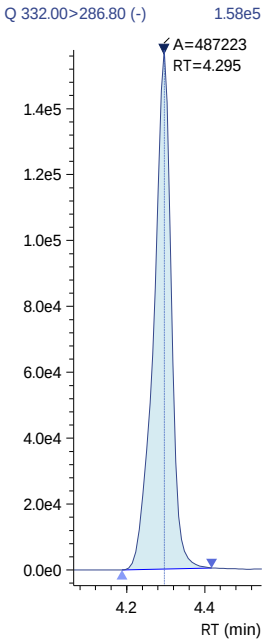
10_2-FtS_1
Conc 0.9700
R#1 21.50 (26.33)



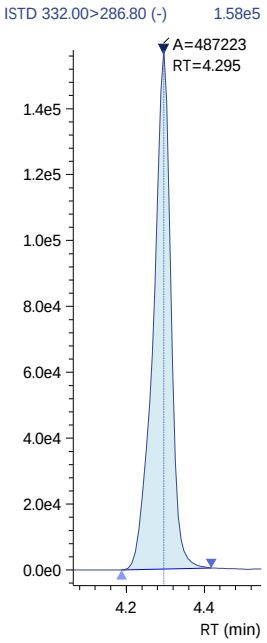
HPFO_DA
Conc 1.0036
R#1 107.65 (103.01)



HFPO_DA-13C
Conc 4.9459



HFPO_DA-13C_IS
Conc 5.0000



Insight Report
Retention Time/Signal:Noise Ratio Confirmation
Printed 9/9/2021 16:28:51

210909_012

Sample ID: PFC ICAL @ 5.0ppb
Date Acquired: 9/9/2021 2:36:47 PM
Acquired by: System Administrator
Data File: 210909_012
Vial: 5 | Inj. Volume: 15.0000uL | Tray: 0

Name	m/z	Ref 1 m/z	Found RT	RT Diff	ISTD RT Diff	S/N	Ref 1 S/N	Flag ID
13C7-PFUnDA_IS	570.00>525.00	----	5.125	0.008	----	4682	----	
PFBS_1	299.00>80.00	298.80>99.00	4.032	0.005	0.000	46853	15546	
PFBS-13C	301.80>80.00	----	4.032	-0.001	-1.093	(INF)	----	
PFBS-13C_IS	301.80>80.00	----	4.032	-0.001	----	(INF)	----	
PFPeS	349.00>99.00	349.00>79.95	4.250	0.005	0.218	15390	18948	
PFHxS_1	399.00>80.00	399.00>99.00	4.413	0.003	-0.002	152625	6202	
PFHxS-18O	402.70>84.05	----	4.415	0.005	-0.710	(INF)	----	
PFHxS-18O_IS	402.70>84.05	----	4.415	0.005	----	(INF)	----	
PFHpS_1	449.00>80.15	449.00>99.20	4.576	0.006	0.161	23554	(INF)	
PFOS_1	499.00>80.00	499.00>99.00	4.745	0.007	0.000	(INF)	7454	
PFOS-13C	502.80>80.05	----	4.745	0.006	-0.380	(INF)	----	
PFOS-13C_IS	502.80>80.05	----	4.745	0.006	----	(INF)	----	
PFNS	549.00>99.00	549.00>79.95	4.922	0.006	0.177	(INF)	(INF)	
PFDS_1	599.00>79.90	599.00>99.10	5.103	0.008	0.358	(INF)	(INF)	
PFBA	213.00>169.10	----	3.416	0.005	0.000	11412	----	
PFBA-13C	216.90>172.15	----	3.416	0.006	-1.709	21359	----	
PFBA-13C_IS	216.90>172.15	----	3.416	0.006	----	21359	----	
PFPeA	263.05>219.10	----	3.979	0.006	0.001	5265	----	
PFPeA-13C	267.90>223.00	----	3.978	0.005	-1.147	19250	----	
PFPeA-13C_IS	267.90>223.00	----	3.978	0.005	----	19250	----	
PFHxA	313.00>269.00	313.00>119.10	4.235	0.006	0.000	7821	(INF)	
PFHxA-13C	314.90>270.10	----	4.235	0.006	-0.890	25567	----	
PFHxA-13C_IS	314.90>270.10	----	4.235	0.006	----	25567	----	
PFHpA	362.90>319.00	362.90>169.00	4.416	0.004	0.000	13396	(INF)	
PFHpA-13C	366.90>322.10	----	4.416	0.005	-0.709	15344	----	
PFHpA-13C_IS	366.90>322.10	----	4.416	0.005	----	15344	----	
PFOA	413.00>369.00	413.00>169.10	4.583	0.005	-0.001	19081	5155	
PFOA-13C	416.80>372.05	----	4.584	0.006	-0.541	137854	----	
PFOA-13C_IS	416.80>372.05	----	4.584	0.006	----	137854	----	
PFNA	463.00>418.90	463.00>219.00	4.758	0.007	0.001	(INF)	162688	
PFNA-13C	467.80>423.00	----	4.757	0.006	-0.368	53143	----	
PFNA-13C_IS	467.80>423.00	----	4.757	0.006	----	53143	----	
PFDA	513.00>468.80	513.00>219.10	4.940	0.007	0.000	103411	339202	
PFDA-13C	514.80>469.95	----	4.940	0.007	-0.185	23968	----	
PFDA-13C_IS	514.80>469.95	----	4.940	0.007	----	23968	----	
PFUnA	563.00>518.90	563.00>219.00	5.125	0.007	0.000	3675	1846	
PFUnA-13C	564.80>519.95	----	5.125	0.007	0.000	3743	----	
PFUnA-13C_IS	564.80>519.95	----	5.125	0.007	----	3743	----	
PFDoA	613.05>569.00	613.05>169.00	5.305	0.009	0.000	19816	240904	
PFDoA-13C	614.80>569.95	----	5.305	0.008	0.180	24691	----	
PFDoA-13C_IS	614.80>569.95	----	5.305	0.008	----	24691	----	
PFTrDA	663.00>618.90	662.90>169.00	5.468	0.005	-0.147	(INF)	(INF)	
PFTeDA	713.00>669.00	713.00>169.10	5.615	0.004	0.000	24097	(INF)	
PFTeDA-13C	714.70>669.90	----	5.615	0.004	0.490	164554	----	
PFTeDA-13C_IS	714.70>669.90	----	5.615	0.004	----	145614	----	
FOSA	498.20>78.00	498.20>64.10	5.229	0.011	0.000	(INF)	4129	
FOSA-13C	506.00>78.05	----	5.229	0.010	0.104	2385	----	
FOSA-13C_IS	506.00>78.05	----	5.229	0.010	----	2385	----	
N-MeFOSA	512.00>169.10	512.00>219.00	5.615	0.006	0.003	2368	(INF)	
N-MeFOSA-d3	514.90>168.90	----	5.612	0.006	0.487	1025	----	
N-MeFOSA-d3_IS	514.90>168.90	----	5.612	0.006	----	1025	----	

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SN - Software-calculated S/N ratio outside criteria due to non-target peaks or drift in noise calculation window. Analyst review of noise levels (excluding non-target peaks) in chromatogram indicates S/N ratio meets criteria.

Insight Report
Retention Time/Signal:Noise Ratio Confirmation
Printed 9/9/2021 16:28:51

210909_012 (continued)

(Table continued from previous page)

Name	m/z	Ref 1 m/z	Found RT	RT Diff	ISTD RT Diff	S/N	Ref 1 S/N	Flag ID
N-EtFOSA	526.90>169.10	526.90>219.00	5.739	0.005	0.005	(INF)	(INF)	
N-EtFOSA-d9	530.90>169.15	----	5.734	0.004	0.609	1089	----	
N-EtFOSA-d9_IS	530.90>169.15	----	5.734	0.004	----	1089	----	
N-MeFOSE	616.00>59.00	----	5.596	0.006	0.008	(INF)	----	
N-MeFOSE-d7	622.70>59.10	----	5.588	0.005	0.463	3233	----	
N-MeFOSE-d7_IS	622.70>59.10	----	5.588	0.005	----	3233	----	
N-EtFOSE	630.00>58.90	----	5.716	0.005	0.009	(INF)	----	
N-EtFOSE-d9	638.70>59.10	----	5.707	0.006	0.582	1648	----	
N-EtFOSE-d9_IS	638.70>59.10	----	5.707	0.006	----	1648	----	
N-MeFOSAA	570.20>419.00	570.20>512.00	5.040	0.007	0.003	4284	584	
N-MeFOSAA-d3	572.80>419.05	----	5.037	0.007	-0.088	405638	----	
N-MeFOSAA-d3_IS	572.80>419.05	----	5.037	0.007	----	405638	----	
N-EtFOSAA	584.20>418.95	584.20>526.10	5.141	0.009	0.004	9016	1354	
N-EtFOSAA-d5	588.80>419.00	----	5.137	0.009	0.012	38986	----	
N-EtFOSAA-d5_IS	588.80>419.00	----	5.137	0.009	----	38986	----	
4_2-FTS_1	327.00>307.05	327.00>81.10	4.209	0.006	0.001	(INF)	(INF)	
4_2-FTS-13C	328.80>309.05	----	4.208	0.004	-0.917	259824	----	
4_2-FTS-13C_IS	328.80>309.05	----	4.208	0.004	----	290492	----	
6_2-FTS_1	427.00>407.00	427.00>80.90	4.572	0.005	-0.001	(INF)	(INF)	
6_2-FTS-13C	428.90>409.00	----	4.573	0.005	-0.552	(INF)	----	
6_2-FTS-13C_IS	428.90>409.00	----	4.573	0.005	----	(INF)	----	
8_2-FTS_1	527.10>506.90	527.20>487.00	4.938	0.008	-0.001	(INF)	(INF)	
8_2-FTS-13C	528.80>509.00	----	4.939	0.007	-0.186	26424	----	
8_2-FTS-13C_IS	528.80>509.00	----	4.939	0.007	----	26424	----	
10_2-FtS_1	627.00>606.95	627.00>81.25	5.312	0.009	0.373	(INF)	(INF)	
HPFO_DA	329.00>169.00	329.00>285.10	4.302	0.006	0.001	46550	22560	
HFPO_DA-13C	332.00>286.80	----	4.301	0.005	-0.824	29944	----	
HFPO_DA-13C_IS	332.00>286.80	----	4.301	0.005	----	29944	----	

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SN - Software-calculated S/N ratio outside criteria due to non-target peaks or drift in noise calculation window. Analyst review of noise levels (excluding non-target peaks) in chromatogram indicates S/N ratio meets criteria.

Insight Report
Ion Ratio Confirmation
Printed 9/9/2021 16:29:39

210909_012

Sample ID: PFC ICAL @ 5.0ppb
Date Acquired: 9/9/2021 2:36:47 PM
Acquired by: System Administrator
Data File: 210909_012
Vial: 5 | Inj. Volume: 15.0000uL | Tray: 0

Name	m/z	Ref 1 m/z	Area	Ref 1 Measured	Ref 1 Actual Ratio	Ref 1 Set Ratio	Comment 1	Flag ID
13C7-PFUnDA_IS	570.00>525.00	----	4951473	----	----	----		
PFBS_1	299.00>80.00	298.80>99.00	802756	403677	50.29	49.34	24.67-74.01	
PFBS-13C	301.80>80.00	----	538180	----	----	----	0-0	
PFBS-13C_IS	301.80>80.00	----	538180	----	----	----	0-0	
PFPeS	349.00>99.00	349.00>79.95	368734	568342	154.13	151.30	75.65 -226.95	
PFHxS_1	399.00>80.00	399.00>99.00	589430	380557	64.56	62.92	31.46-94.38	
PFHxS-18O	402.70>84.05	----	403090	----	----	----	0-0	
PFHxS-18O_IS	402.70>84.05	----	403090	----	----	----	0-0	
PFHpS_1	449.00>80.15	449.00>99.20	626097	262766	41.97	40.53	20.26-60.79	
PFOS_1	499.00>80.00	499.00>99.00	463174	351804	75.96	73.81	36.91 -110.72	
PFOS-13C	502.80>80.05	----	511968	----	----	----	0-0	
PFOS-13C_IS	502.80>80.05	----	511968	----	----	----	0-0	
PFNS	549.00>99.00	549.00>79.95	351256	561550	159.87	160.25	80.13 -240.38	
PFDS_1	599.00>79.90	599.00>99.10	625952	430691	68.81	72.12	36.06 -108.19	
PFBA	213.00>169.10	----	2157688	----	----	----		
PFBA-13C	216.90>172.15	----	1936674	----	----	----		
PFBA-13C_IS	216.90>172.15	----	1936674	----	----	----		
PFPeA	263.05>219.10	----	3336791	----	----	----		
PFPeA-13C	267.90>223.00	----	1102684	----	----	----	0-0	
PFPeA-13C_IS	267.90>223.00	----	1102684	----	----	----	0-0	
PFHxA	313.00>269.00	313.00>119.10	4071272	158607	3.90	4.40	2.2-6.61	
PFHxA-13C	314.90>270.10	----	3126205	----	----	----	0-0	
PFHxA-13C_IS	314.90>270.10	----	3126205	----	----	----	0-0	
PFHpA	362.90>319.00	362.90>169.00	3447020	875365	25.40	24.40	12.2-36.6	
PFHpA-13C	366.90>322.10	----	3029890	----	----	----	0-0	
PFHpA-13C_IS	366.90>322.10	----	3029890	----	----	----	0-0	
PFOA	413.00>369.00	413.00>169.10	4821373	1512703	31.38	31.89	15.94-47.83	
PFOA-13C	416.80>372.05	----	3686630	----	----	----	0-0	
PFOA-13C_IS	416.80>372.05	----	3686630	----	----	----	0-0	
PFNA	463.00>418.90	463.00>219.00	3202919	753395	23.52	23.25	11.63-34.88	
PFNA-13C	467.80>423.00	----	3078202	----	----	----	0-0	
PFNA-13C_IS	467.80>423.00	----	3078202	----	----	----	0-0	
PFDA	513.00>468.80	513.00>219.10	3109548	655976	21.10	20.24	10.12-30.36	
PFDA-13C	514.80>469.95	----	2255968	----	----	----	0-0	
PFDA-13C_IS	514.80>469.95	----	2255968	----	----	----	0-0	
PFUnA	563.00>518.90	563.00>219.00	3680434	466518	12.68	12.46	6.23-18.69	
PFUnA-13C	564.80>519.95	----	3419050	----	----	----	0-0	
PFUnA-13C_IS	564.80>519.95	----	3419050	----	----	----	0-0	
PFDoA	613.05>569.00	613.05>169.00	3315623	613083	18.49	16.50	8.25-24.76	
PFDoA-13C	614.80>569.95	----	3811423	----	----	----	0-0	
PFDoA-13C_IS	614.80>569.95	----	3811423	----	----	----	0-0	
PFTrDA	663.00>618.90	662.90>169.00	4052398	622056	15.35	15.29	7.65-22.94	
PFTeDA	713.00>669.00	713.00>169.10	4132295	697811	16.89	17.47	8.73-26.2	
PFTeDA-13C	714.70>669.90	----	3783420	----	----	----	0-0	
PFTeDA-13C_IS	714.70>669.90	----	3783420	----	----	----	0-0	
FOSA	498.20>78.00	498.20>64.10	1929435	97433	5.05	5.19	2.6-7.79	
FOSA-13C	506.00>78.05	----	1570747	----	----	----	0-0	

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Comment 1 field specifies acceptance range for Ref 1 ratio.
IRr - Ion ratio outside criteria. Exceedances for results above the MDL to be "K" flagged in the analytical report.

Insight Report
Ion Ratio Confirmation
Printed 9/9/2021 16:29:39

210909_012 (continued)

(Table continued from previous page)

Name	m/z	Ref 1 m/z	Area	Ref 1 Measured	Ref 1 Actual Ratio	Ref 1 Set Ratio	Comment 1	Flag ID
FOSA-13C_IS	506.00>78.05	----	1570747	----	----	----	0-0	
N-MeFOSA	512.00>169.10	512.00>219.00	663621	468373	70.58	69.94	34.97 -104.91	
N-MeFOSA-d3	514.90>168.90	----	353288	----	----	----	0-0	
N-MeFOSA-d3_IS	514.90>168.90	----	353288	----	----	----	0-0	
N-EtFOSA	526.90>169.10	526.90>219.00	122889	87197	70.96	66.52	33.26-99.77	
N-EtFOSA-d9	530.90>169.15	----	409128	----	----	----	0-0	
N-EtFOSA-d9_IS	530.90>169.15	----	409128	----	----	----	0-0	
N-MeFOSE	616.00>59.00	----	969440	----	----	----		
N-MeFOSE-d7	622.70>59.10	----	543539	----	----	----		
N-MeFOSE-d7_IS	622.70>59.10	----	543539	----	----	----		
N-EtFOSE	630.00>58.90	----	893648	----	----	----		
N-EtFOSE-d9	638.70>59.10	----	514569	----	----	----	0-0	
N-EtFOSE-d9_IS	638.70>59.10	----	514569	----	----	----	0-0	
N-MeFOSAA	570.20>419.00	570.20>512.00	509006	230187	45.22	39.56	19.78-59.34	
N-MeFOSAA-d3	572.80>419.05	----	630436	----	----	----	0-0	
N-MeFOSAA-d3_IS	572.80>419.05	----	630436	----	----	----	0-0	
N-EtFOSAA	584.20>418.95	584.20>526.10	416118	351007	84.35	84.54	42.27 -126.81	
N-EtFOSAA-d5	588.80>419.00	----	537963	----	----	----	0-0	
N-EtFOSAA-d5_IS	588.80>419.00	----	537963	----	----	----	0-0	
4_2-FTS_1	327.00>307.05	327.00>81.10	540325	155329	28.75	34.12	17.06-51.19	
4_2-FTS-13C	328.80>309.05	----	596525	----	----	----	0-0	
4_2-FTS-13C_IS	328.80>309.05	----	596525	----	----	----	0-0	
6_2-FTS_1	427.00>407.00	427.00>80.90	573666	205819	35.88	37.36	18.68-56.04	
6_2-FTS-13C	428.90>409.00	----	446914	----	----	----	0-0	
6_2-FTS-13C_IS	428.90>409.00	----	446914	----	----	----	0-0	
8_2-FTS_1	527.10>506.90	527.20>487.00	324600	38142	11.75	10.63	5.32-15.95	
8_2-FTS-13C	528.80>509.00	----	340544	----	----	----	0-0	
8_2-FTS-13C_IS	528.80>509.00	----	340544	----	----	----	0-0	
10_2-FtS_1	627.00>606.95	627.00>81.25	279604	58987	21.10	21.61	10.8-32.41	
HPFO_DA	329.00>169.00	329.00>285.10	540154	581317	107.62	106.46	53.23 -159.68	
HFPO_DA-13C	332.00>286.80	----	537391	----	----	----		
HFPO_DA-13C_IS	332.00>286.80	----	537391	----	----	----		

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Comment 1 field specifies acceptance range for Ref 1 ratio.
IRr - Ion ratio outside criteria. Exceedances for results above the MDL to be "K" flagged in the analytical report.

Insight Report
Quantitation/Integration
Printed 9/9/2021 16:33:46

210909_012

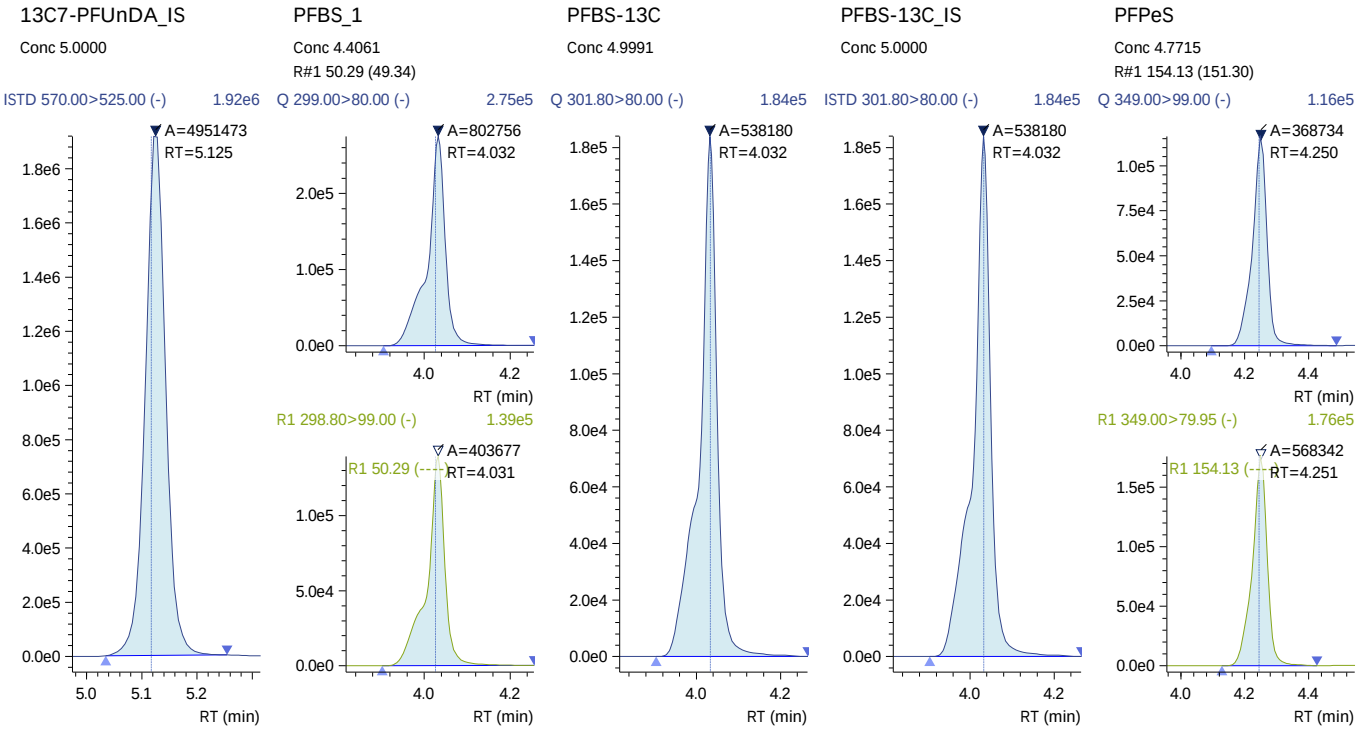
Sample ID: PFC ICAL @ 5.0ppb
Date Acquired: 9/9/2021 2:36:47 PM
Acquired by: System Administrator
Data File: 210909_012
Vial: 5 | Inj. Volume: 15.0000uL | Tray: 0

Name	Mode ID	Found RT	Area	ISTD Area	ISTD Name	Std. Conc.	Conc.	Unit
13C7-PFUnDA_IS	Auto	5.125	4951473	4951473	----	5.0000	5.0000	ng/mL
PFBS_1	Auto	4.032	802756	538180	PFBS-13C_IS	4.4369	4.4061	ng/mL
PFBS-13C	Auto	4.032	538180	4951473	13C7-PFUnDA_IS	5.0000	4.9991	ng/mL
PFBS-13C_IS	Auto	4.032	538180	538180	----	5.0000	5.0000	ng/mL
PFPeS	Auto	4.250	368734	538180	PFBS-13C_IS	4.7046	4.7715	ng/mL
PFHxS_1	Auto	4.413	589430	403090	PFHxS-18O_IS	4.5654	4.5392	ng/mL
PFHxS-18O	Auto	4.415	403090	4951473	13C7-PFUnDA_IS	5.0000	5.2495	ng/mL
PFHxS-18O_IS	Auto	4.415	403090	403090	----	5.0000	5.0000	ng/mL
PFHpS_1	Auto	4.576	626097	403090	PFHxS-18O_IS	4.7672	4.5206	ng/mL
PFOS_1	Auto	4.745	463174	511968	PFOS-13C_IS	4.6461	4.8340	ng/mL
PFOS-13C	Auto	4.745	511968	4951473	13C7-PFUnDA_IS	5.0000	4.8791	ng/mL
PFOS-13C_IS	Auto	4.745	511968	511968	----	5.0000	5.0000	ng/mL
PFNS	Auto	4.922	351256	511968	PFOS-13C_IS	4.8079	5.0481	ng/mL
PFDS_1	Auto	5.103	625952	511968	PFOS-13C_IS	4.8233	5.1931	ng/mL
PFBA	M	3.416	2157688	1936674	PFBA-13C_IS	5.0000	4.8322	ng/mL
PFBA-13C	Auto	3.416	1936674	4951473	13C7-PFUnDA_IS	5.0000	5.0144	ng/mL
PFBA-13C_IS	Auto	3.416	1936674	1936674	----	5.0000	5.0000	ng/mL
PFPeA	Auto	3.979	3336791	1102684	PFPeA-13C_IS	5.0000	4.9428	ng/mL
PFPeA-13C	Auto	3.978	1102684	4951473	13C7-PFUnDA_IS	5.0000	4.9956	ng/mL
PFPeA-13C_IS	Auto	3.978	1102684	1102684	----	5.0000	5.0000	ng/mL
PFHxA	Auto	4.235	4071272	3126205	PFHxA-13C_IS	5.0000	4.9841	ng/mL
PFHxA-13C	Auto	4.235	3126205	4951473	13C7-PFUnDA_IS	5.0000	4.9913	ng/mL
PFHxA-13C_IS	Auto	4.235	3126205	3126205	----	5.0000	5.0000	ng/mL
PFHpA	Auto	4.416	3447020	3029890	PFHpA-13C_IS	5.0000	4.7155	ng/mL
PFHpA-13C	Auto	4.416	3029890	4951473	13C7-PFUnDA_IS	5.0000	5.3342	ng/mL
PFHpA-13C_IS	Auto	4.416	3029890	3029890	----	5.0000	5.0000	ng/mL
PFOA	Auto	4.583	4821373	3686630	PFOA-13C_IS	5.0000	4.7698	ng/mL
PFOA-13C	Auto	4.584	3686630	4951473	13C7-PFUnDA_IS	5.0000	4.8548	ng/mL
PFOA-13C_IS	Auto	4.584	3686630	3686630	----	5.0000	5.0000	ng/mL
PFNA	Auto	4.758	3202919	3078202	PFNA-13C_IS	5.0000	5.0317	ng/mL
PFNA-13C	Auto	4.757	3078202	4951473	13C7-PFUnDA_IS	5.0000	4.7050	ng/mL
PFNA-13C_IS	Auto	4.757	3078202	3078202	----	5.0000	5.0000	ng/mL
PFDA	Auto	4.940	3109548	2255968	PFDA-13C_IS	5.0000	4.8894	ng/mL
PFDA-13C	Auto	4.940	2255968	4951473	13C7-PFUnDA_IS	5.0000	4.9596	ng/mL
PFDA-13C_IS	Auto	4.940	2255968	2255968	----	5.0000	5.0000	ng/mL
PFUnA	Auto	5.125	3680434	3419050	PFUnA-13C_IS	5.0000	4.8635	ng/mL
PFUnA-13C	Auto	5.125	3419050	4951473	13C7-PFUnDA_IS	5.0000	4.9851	ng/mL
PFUnA-13C_IS	Auto	5.125	3419050	3419050	----	5.0000	5.0000	ng/mL
PFDoA	Auto	5.305	3315623	3811423	PFDoA-13C_IS	5.0000	4.8844	ng/mL
PFDoA-13C	Auto	5.305	3811423	4951473	13C7-PFUnDA_IS	5.0000	5.0381	ng/mL
PFDoA-13C_IS	Auto	5.305	3811423	3811423	----	5.0000	5.0000	ng/mL
PFTrDA	Auto	5.468	4052398	3783420	PFTeDA-13C_IS	5.0000	5.2460	ng/mL
PFTeDA	Auto	5.615	4132295	3783420	PFTeDA-13C_IS	5.0000	4.9329	ng/mL
PFTeDA-13C	Auto	5.615	3783420	4951473	13C7-PFUnDA_IS	5.0000	4.9844	ng/mL
PFTeDA-13C_IS	Auto	5.615	3783420	3783420	----	5.0000	5.0000	ng/mL
FOSA	Auto	5.229	1929435	1570747	FOSA-13C_IS	5.0000	5.1219	ng/mL
FOSA-13C	Auto	5.229	1570747	4951473	13C7-PFUnDA_IS	5.0000	4.9874	ng/mL
FOSA-13C_IS	Auto	5.229	1570747	1570747	----	5.0000	5.0000	ng/mL
N-MeFOSA	Auto	5.615	663621	353288	N-MeFOSA-d3_IS	5.0000	4.9339	ng/mL
N-MeFOSA-d3	Auto	5.612	353288	4951473	13C7-PFUnDA_IS	5.0000	4.9995	ng/mL
N-MeFOSA-d3_IS	Auto	5.612	353288	353288	----	5.0000	5.0000	ng/mL
N-EtFOSA	Auto	5.739	122889	409128	N-EtFOSA-d9_IS	5.0000	4.9558	ng/mL
N-EtFOSA-d9	Auto	5.734	409128	4951473	13C7-PFUnDA_IS	5.0000	4.9698	ng/mL
N-EtFOSA-d9_IS	Auto	5.734	409128	409128	----	5.0000	5.0000	ng/mL

210909_012 (continued)

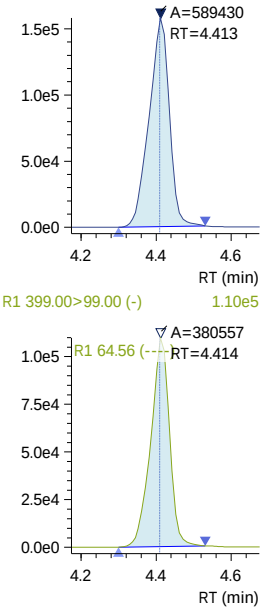
(Table continued from previous page)

Name	Mode ID	Found RT	Area	ISTD Area	ISTD Name	Std. Conc.	Conc.	Unit
N-MeFOSE	Auto	5.596	969440	543539	N-MeFOSE-d7_IS	5.0000	4.9619	ng/mL
N-MeFOSE-d7	Auto	5.588	543539	4951473	13C7-PFUnDA_IS	5.0000	4.9952	ng/mL
N-MeFOSE-d7_IS	Auto	5.588	543539	543539	----	5.0000	5.0000	ng/mL
N-EtFOSE	Auto	5.716	893648	514569	N-EtFOSE-d9_IS	5.0000	5.0106	ng/mL
N-EtFOSE-d9	Auto	5.707	514569	4951473	13C7-PFUnDA_IS	5.0000	4.9937	ng/mL
N-EtFOSE-d9_IS	Auto	5.707	514569	514569	----	5.0000	5.0000	ng/mL
N-MeFOSAA	Auto	5.040	509006	630436	N-MeFOSAA-d3_IS	5.0000	4.8330	ng/mL
N-MeFOSAA-d3	Auto	5.037	630436	4951473	13C7-PFUnDA_IS	5.0000	5.0431	ng/mL
N-MeFOSAA-d3_IS	Auto	5.037	630436	630436	----	5.0000	5.0000	ng/mL
N-EtFOSAA	Auto	5.141	416118	537963	N-EtFOSAA-d5_IS	5.0000	5.1089	ng/mL
N-EtFOSAA-d5	Auto	5.137	537963	4951473	13C7-PFUnDA_IS	5.0000	5.0892	ng/mL
N-EtFOSAA-d5_IS	Auto	5.137	537963	537963	----	5.0000	5.0000	ng/mL
4_2-FTS_1	Auto	4.209	540325	596525	4_2-FTS-13C_IS	4.6861	5.0164	ng/mL
4_2-FTS-13C	Auto	4.208	596525	4951473	13C7-PFUnDA_IS	5.0000	5.0915	ng/mL
4_2-FTS-13C_IS	Auto	4.208	596525	596525	----	5.0000	5.0000	ng/mL
6_2-FTS_1	Auto	4.572	573666	446914	6_2-FTS-13C_IS	4.7558	4.9194	ng/mL
6_2-FTS-13C	Auto	4.573	446914	4951473	13C7-PFUnDA_IS	5.0000	4.5148	ng/mL
6_2-FTS-13C_IS	Auto	4.573	446914	446914	----	5.0000	5.0000	ng/mL
8_2-FTS_1	Auto	4.938	324600	340544	8_2-FTS-13C_IS	4.8002	4.9890	ng/mL
8_2-FTS-13C	Auto	4.939	340544	4951473	13C7-PFUnDA_IS	5.0000	4.7324	ng/mL
8_2-FTS-13C_IS	Auto	4.939	340544	340544	----	5.0000	5.0000	ng/mL
10_2-FtS_1	Auto	5.312	279604	340544	8_2-FTS-13C_IS	4.8310	5.2937	ng/mL
HPFO_DA	Auto	4.302	540154	537391	HFPO_DA-13C_IS	5.0000	5.0278	ng/mL
HFPO_DA-13C	Auto	4.301	537391	4951473	13C7-PFUnDA_IS	5.0000	5.0649	ng/mL
HFPO_DA-13C_IS	Auto	4.301	537391	537391	----	5.0000	5.0000	ng/mL

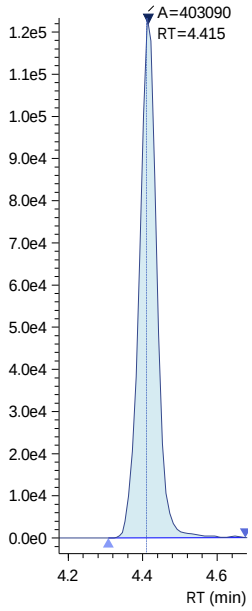


210909_012 (continued)

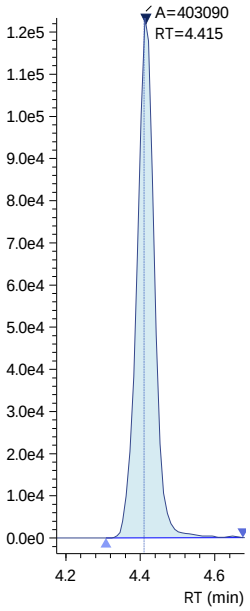
PFHxS_1
Conc 4.5392
R#1 64.56 (62.92)
Q 399.00>80.00 (-) 1.58e5
R1 399.00>99.00 (-) 1.10e5



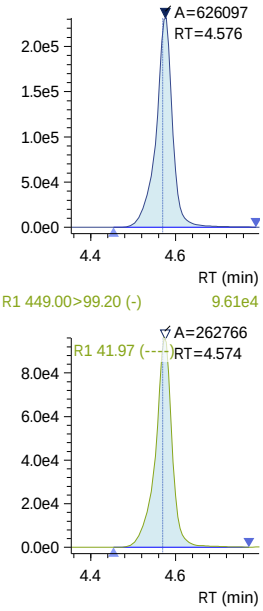
PFHxS-18O
Conc 5.2495
Q 402.70>84.05 (-) 1.23e5



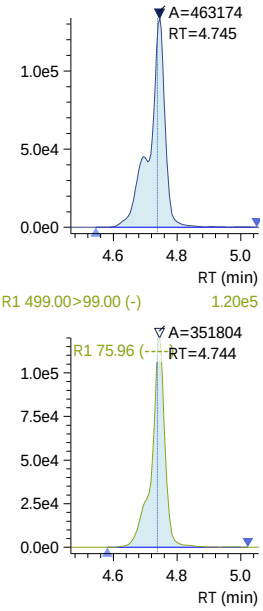
PFHxS-18O_IS
Conc 5.0000
ISTD 402.70>84.05 (-) 1.23e5



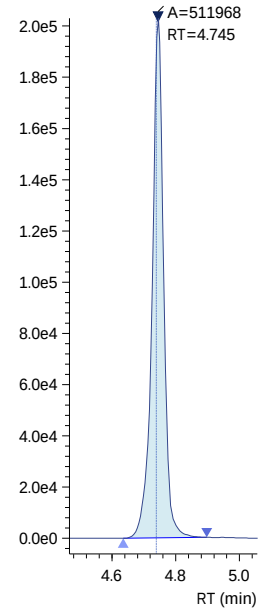
PFHpS_1
Conc 4.5206
R#1 41.97 (40.53)
Q 449.00>80.15 (-) 2.31e5
R1 449.00>99.20 (-) 9.61e4



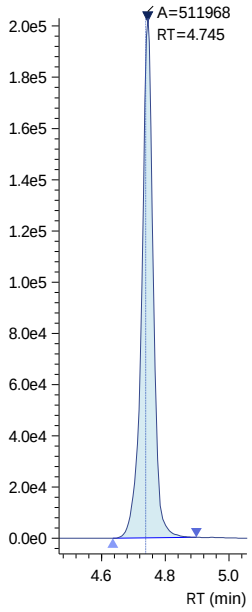
PFOS_1
Conc 4.8340
R#1 75.96 (73.81)
Q 499.00>80.00 (-) 1.34e5
R1 499.00>99.00 (-) 1.20e5



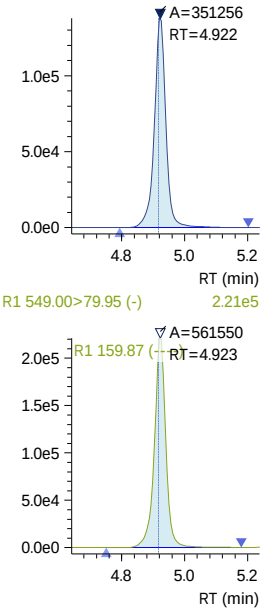
PFOS-13C
Conc 4.8791
Q 502.80>80.05 (-) 2.03e5



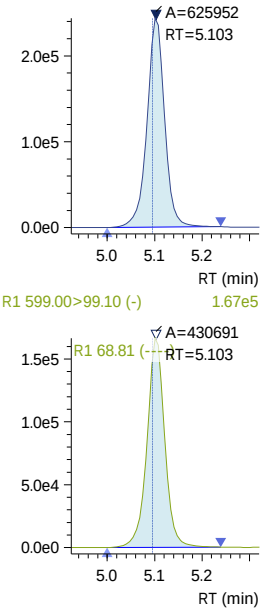
PFOS-13C_IS
Conc 5.0000
ISTD 502.80>80.05 (-) 2.03e5



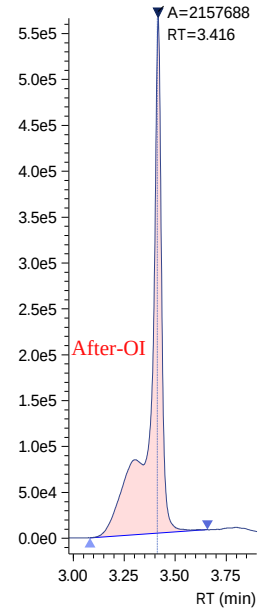
PFNS
Conc 5.0481
R#1 159.87 (160.25)
Q 549.00>99.00 (-) 1.38e5
R1 549.00>79.95 (-) 2.21e5



PFDS_1
Conc 5.1931
R#1 68.81 (72.12)
Q 599.00>79.90 (-) 2.44e5
R1 599.00>99.10 (-) 1.67e5

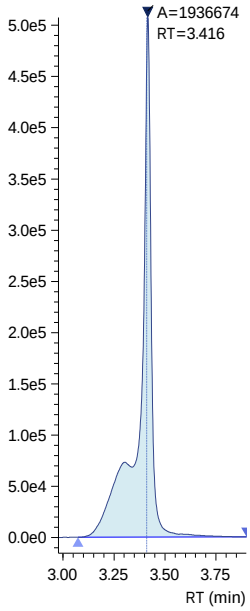


PFBA
Conc 4.8322
Q 213.00>169.10 (-) 5.67e5

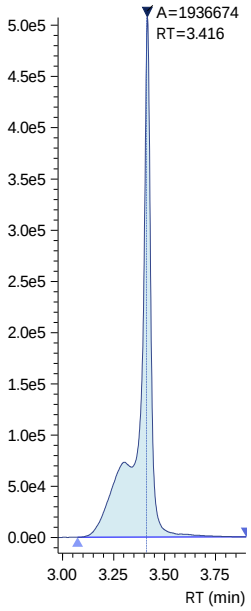


210909_012 (continued)

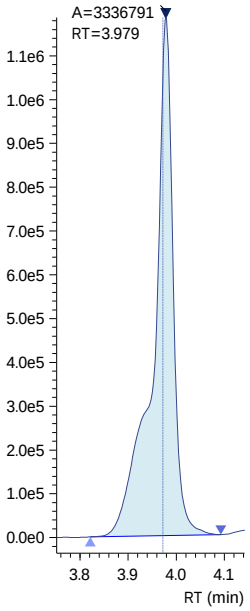
PFBA-13C
Conc 5.0144
Q 216.90>172.15 (-) 5.08e5



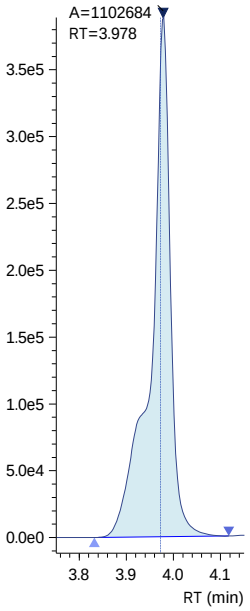
PFBA-13C_IS
Conc 5.0000
ISTD 216.90>172.15 (-) 5.08e5



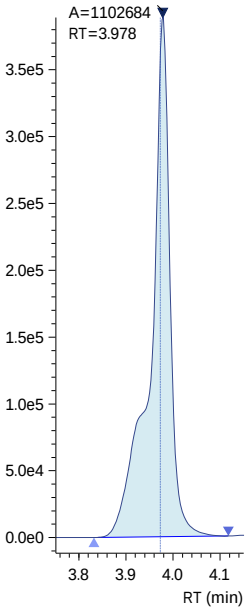
PFPeA
Conc 4.9428
Q 263.05>219.10 (-) 1.19e6



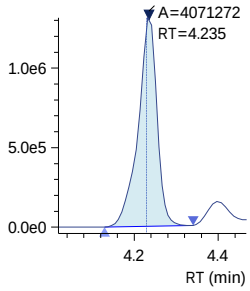
PFPeA-13C
Conc 4.9956
Q 267.90>223.00 (-) 3.89e5



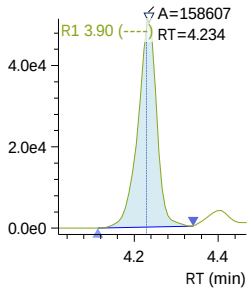
PFPeA-13C_IS
Conc 5.0000
ISTD 267.90>223.00 (-) 3.89e5



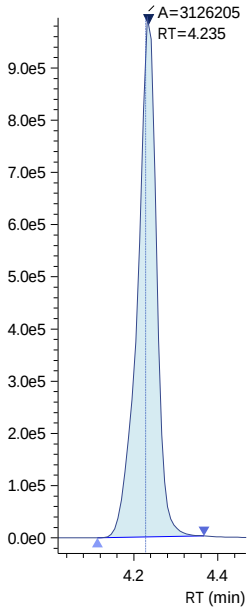
PFHxA
Conc 4.9841
R#1 3.90 (4.40)
Q 313.00>269.00 (-) 1.32e6



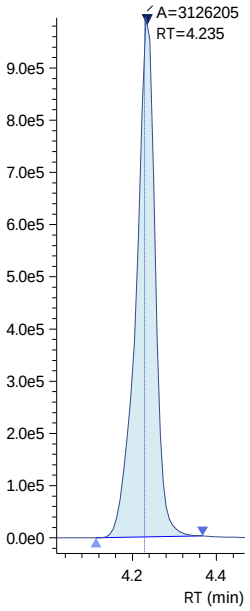
R1 313.00>119.10 (-) 5.15e4



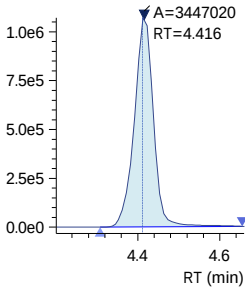
PFHxA-13C
Conc 4.9913
Q 314.90>270.10 (-) 9.96e5



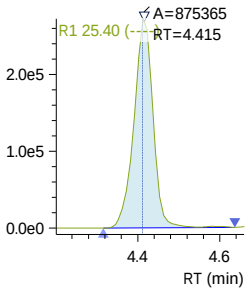
PFHxA-13C_IS
Conc 5.0000
ISTD 314.90>270.10 (-) 9.96e5



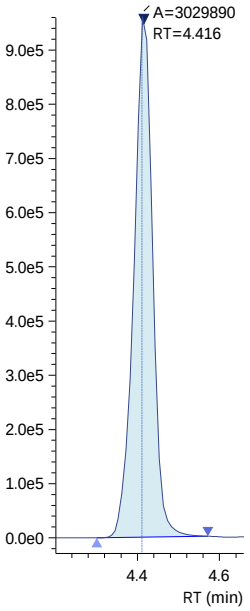
PFHpA
Conc 4.7155
R#1 25.40 (24.40)
Q 362.90>319.00 (-) 1.07e6



R1 362.90>169.00 (-) 2.72e5

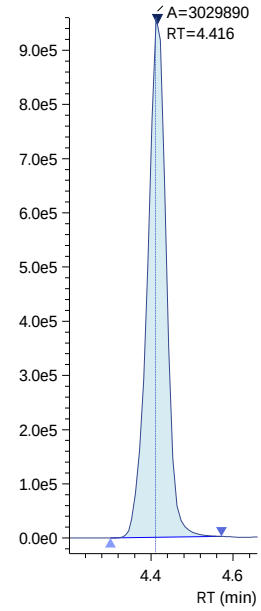


PFHpA-13C
Conc 5.3342
Q 366.90>322.10 (-) 9.60e5

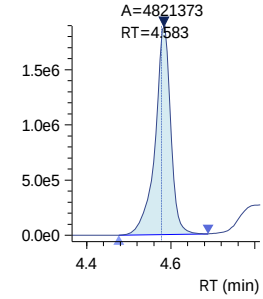


210909_012 (continued)

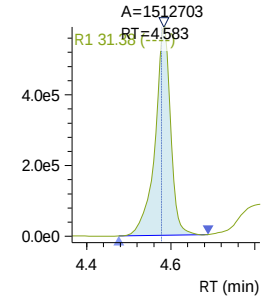
PFHpA-13C_IS
Conc 5.0000
ISTD 366.90>322.10 (-) 9.60e5



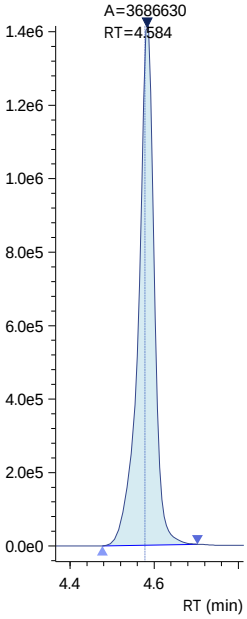
PFOA
Conc 4.7698
R#1 31.38 (31.89)
Q 413.00>369.00 (-) 1.90e6



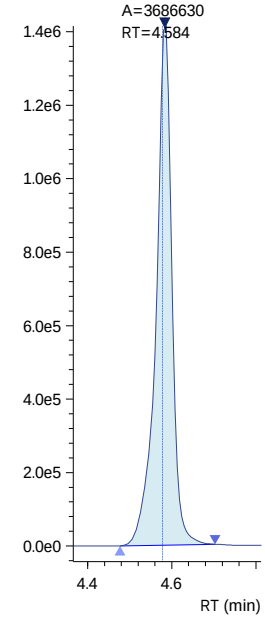
R1 413.00>169.10 (-) 5.92e5



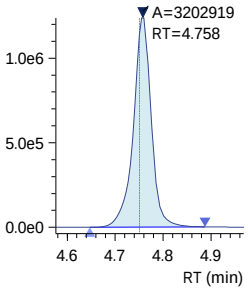
PFOA-13C
Conc 4.8548
Q 416.80>372.05 (-) 1.42e6



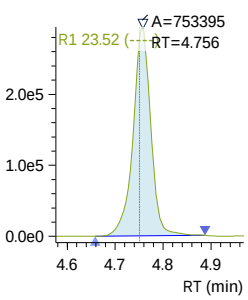
PFOA-13C_IS
Conc 5.0000
ISTD 416.80>372.05 (-) 1.42e6



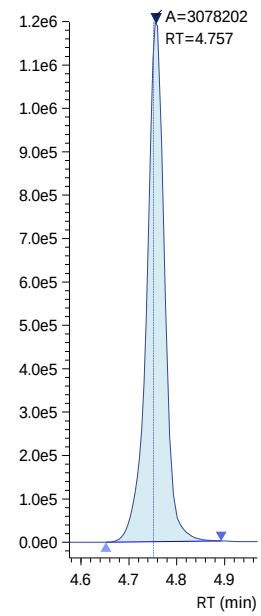
PFNA
Conc 5.0317
R#1 23.52 (23.25)
Q 463.00>418.90 (-) 1.24e6



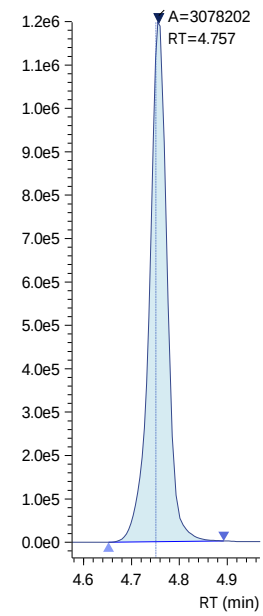
R1 463.00>219.00 (-) 2.95e5



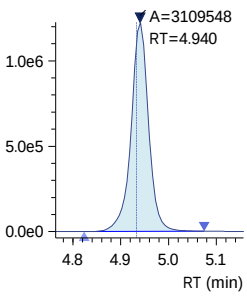
PFNA-13C
Conc 4.7050
Q 467.80>423.00 (-) 1.20e6



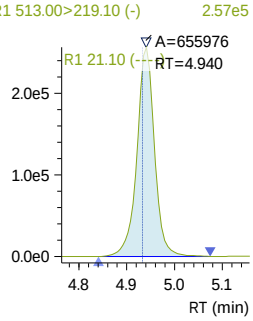
PFNA-13C_IS
Conc 5.0000
ISTD 467.80>423.00 (-) 1.20e6



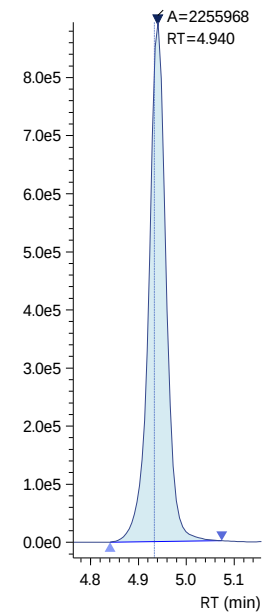
PFDA
Conc 4.8894
R#1 21.10 (20.24)
Q 513.00>468.80 (-) 1.23e6



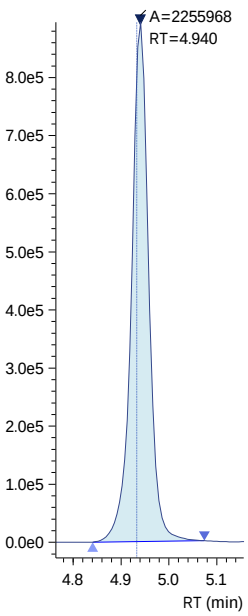
R1 513.00>219.10 (-) 2.57e5



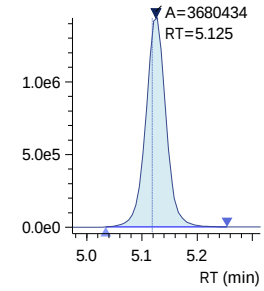
PFDA-13C
Conc 4.9596
Q 514.80>469.95 (-) 8.95e5

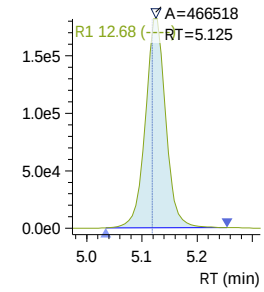


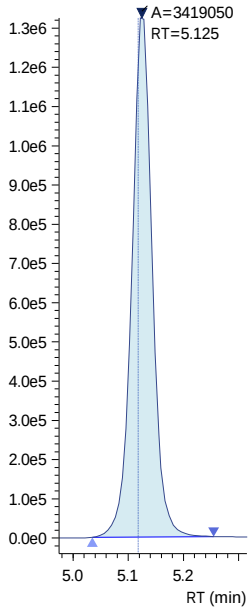
PFDA-13C_IS
Conc 5.0000
ISTD 514.80>469.95 (-) 8.95e5

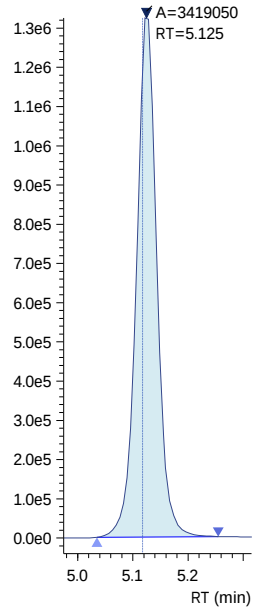


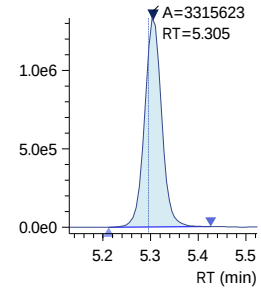
210909_012 (continued)

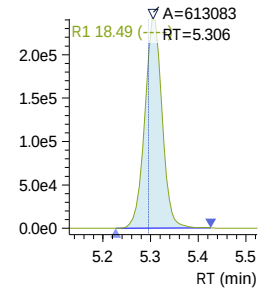
PFUnA
Conc 4.8635
R#1 12.68 (12.46)
Q 563.00>518.90 (-) 1.44e6


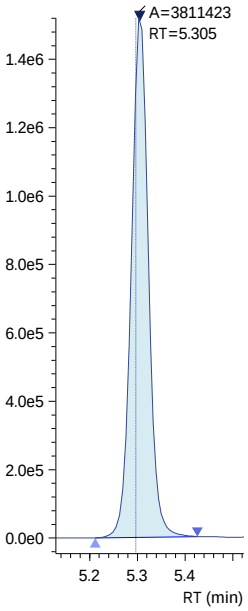
R1 563.00>219.00 (-) 1.82e5


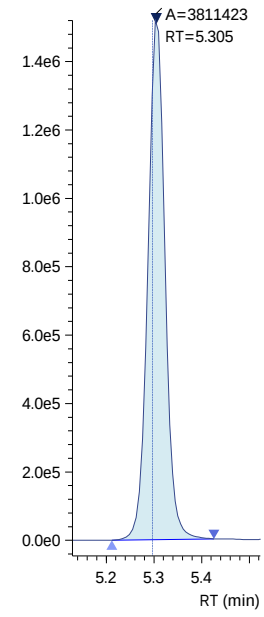
PFUnA-13C
Conc 4.9851
Q 564.80>519.95 (-) 1.33e6


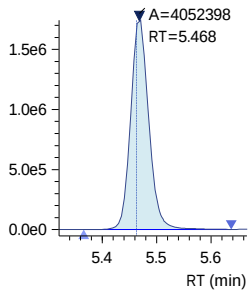
PFUnA-13C_IS
Conc 5.0000
ISTD 564.80>519.95 (-) 1.33e6


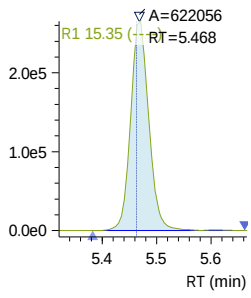
PFDoA
Conc 4.8844
R#1 18.49 (16.50)
Q 613.05>569.00 (-) 1.33e6


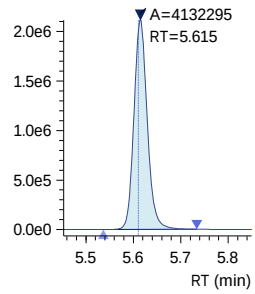
R1 613.05>169.00 (-) 2.41e5


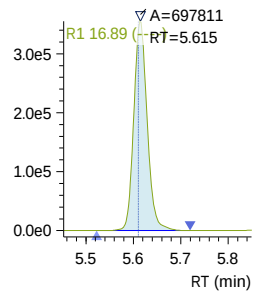
PFDoA-13C
Conc 5.0381
Q 614.80>569.95 (-) 1.52e6


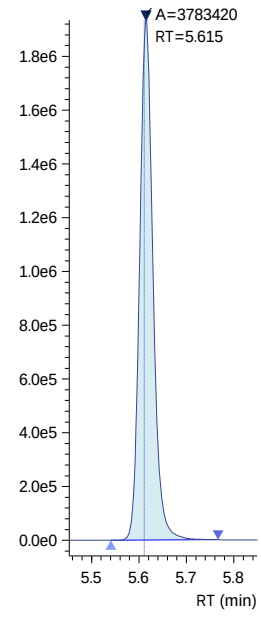
PFDoA-13C_IS
Conc 5.0000
ISTD 614.80>569.95 (-) 1.52e6


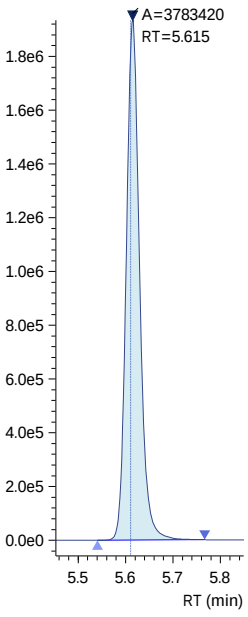
PFTrDA
Conc 5.2460
R#1 15.35 (15.29)
Q 663.00>618.90 (-) 1.74e6


R1 662.90>169.00 (-) 2.65e5


PFTeDA
Conc 4.9329
R#1 16.89 (17.47)
Q 713.00>669.00 (-) 2.11e6


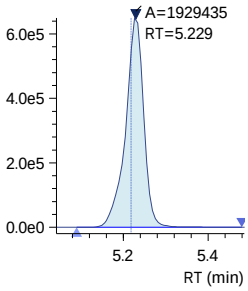
R1 713.00>169.10 (-) 3.55e5


PFTeDA-13C
Conc 4.9844
Q 714.70>669.90 (-) 1.93e6


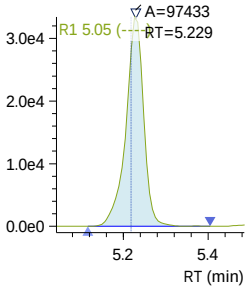
PFTeDA-13C_IS
Conc 5.0000
ISTD 714.70>669.90 (-) 1.93e6


210909_012 (continued)

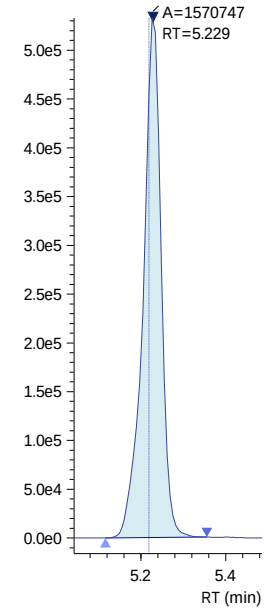
FOSA
Conc 5.1219
R#1 5.05 (5.19)
Q 498.20>78.00 (-) 6.49e5



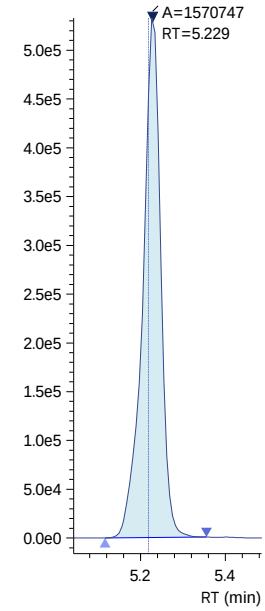
R1 498.20>64.10 (-) 3.34e4



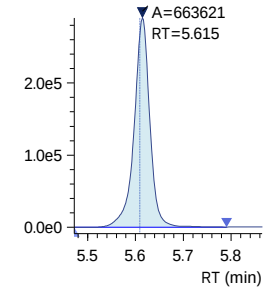
FOSA-13C
Conc 4.9874
Q 506.00>78.05 (-) 5.33e5



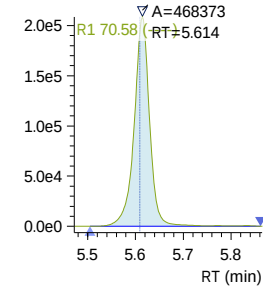
FOSA-13C_IS
Conc 5.0000
ISTD 506.00>78.05 (-) 5.33e5



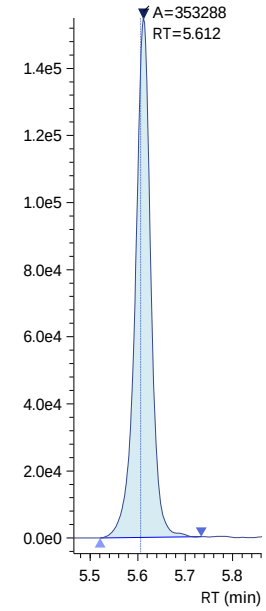
N-MeFOSA
Conc 4.9339
R#1 70.58 (69.94)
Q 512.00>169.10 (-) 2.90e5



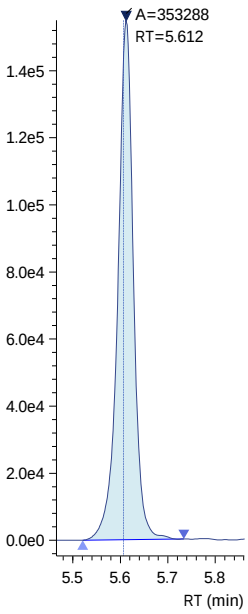
R1 512.00>219.00 (-) 2.09e5



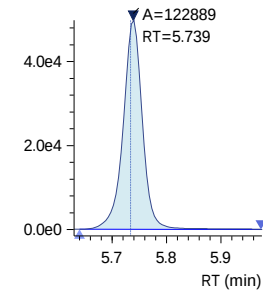
N-MeFOSA-d3
Conc 4.9995
Q 514.90>168.90 (-) 1.55e5



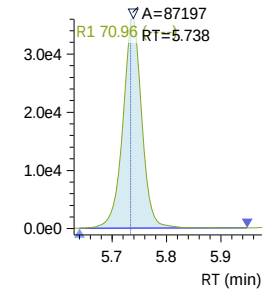
N-MeFOSA-d3_IS
Conc 5.0000
ISTD 514.90>168.90 (-) 1.55e5



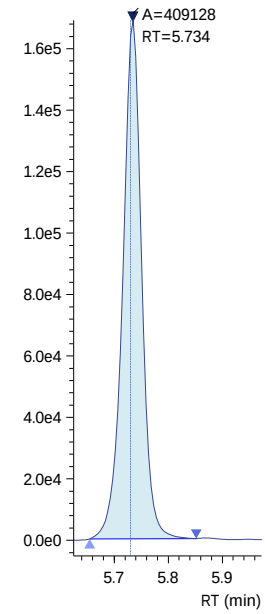
N-EtFOSA
Conc 4.9558
R#1 70.96 (66.52)
Q 526.90>169.10 (-) 4.98e4



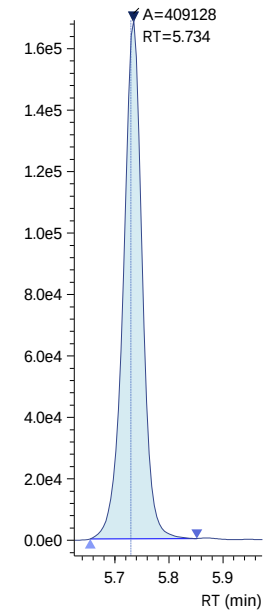
R1 526.90>219.00 (-) 3.60e4



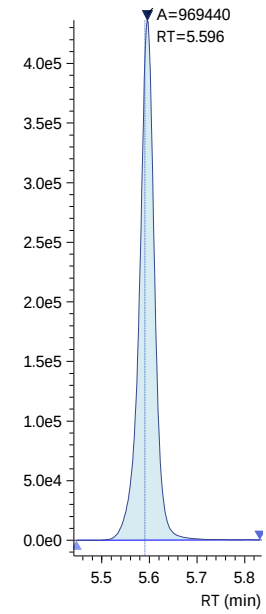
N-EtFOSA-d9
Conc 4.9698
Q 530.90>169.15 (-) 1.69e5



N-EtFOSA-d9_IS
Conc 5.0000
ISTD 530.90>169.15 (-) 1.69e5

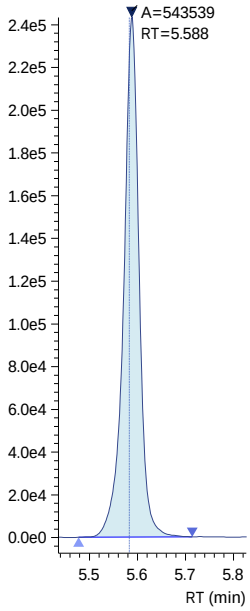


N-MeFOSE
Conc 4.9619
Q 616.00>59.00 (-) 4.36e5

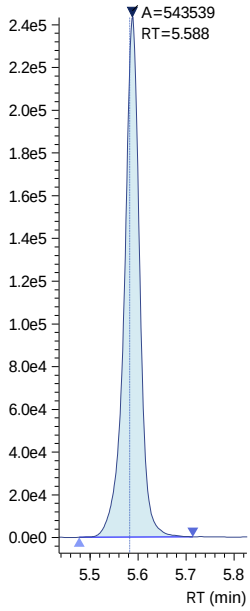


210909_012 (continued)

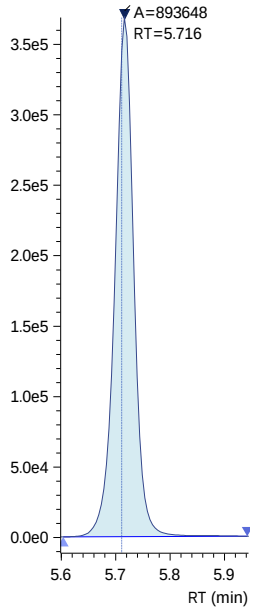
N-MeFOSE-d7
Conc 4.9952
Q 622.70>59.10 (-) 2.43e5



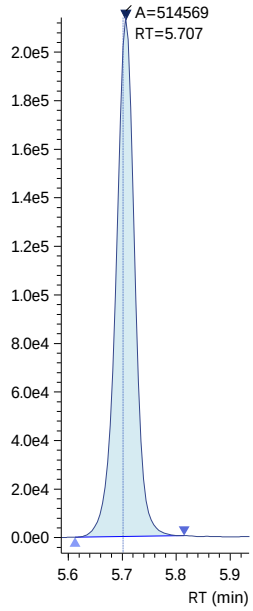
N-MeFOSE-d7_IS
Conc 5.0000
ISTD 622.70>59.10 (-) 2.43e5



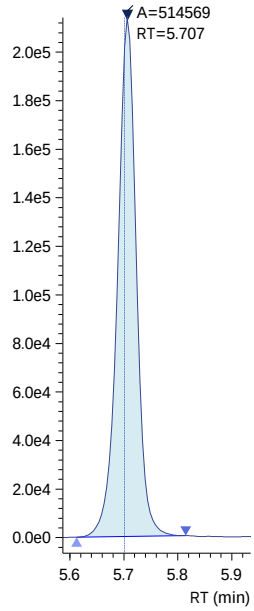
N-EtFOSE
Conc 5.0106
Q 630.00>58.90 (-) 3.69e5



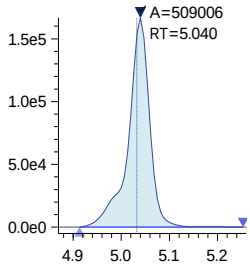
N-EtFOSE-d9
Conc 4.9937
Q 638.70>59.10 (-) 2.14e5



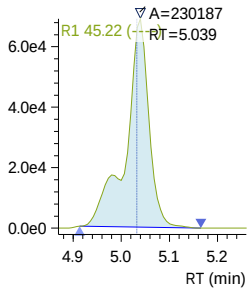
N-EtFOSE-d9_IS
Conc 5.0000
ISTD 638.70>59.10 (-) 2.14e5



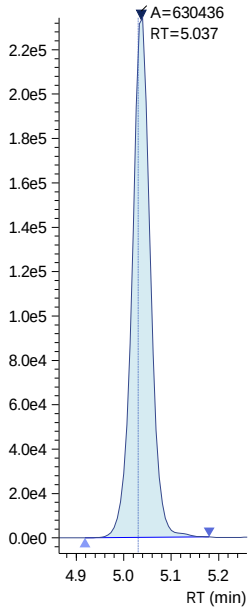
N-MeFOSAA
Conc 4.8330
R#1 45.22 (39.56)
Q 570.20>419.00 (-) 1.67e5



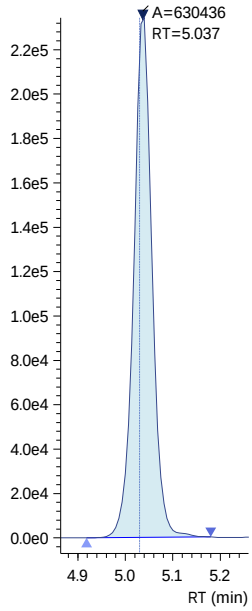
R1 570.20>512.00 (-) 6.92e4



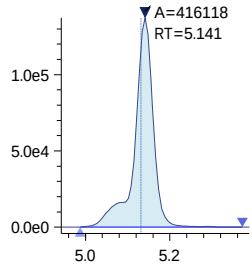
N-MeFOSAA-d3
Conc 5.0431
Q 572.80>419.05 (-) 2.34e5



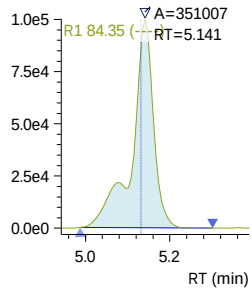
N-MeFOSAA-d3_IS
Conc 5.0000
ISTD 572.80>419.05 (-) 2.34e5



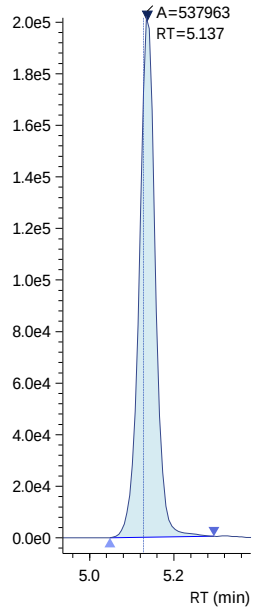
N-EtFOSAA
Conc 5.1089
R#1 84.35 (84.54)
Q 584.20>418.95 (-) 1.37e5



R1 584.20>526.10 (-) 1.00e5

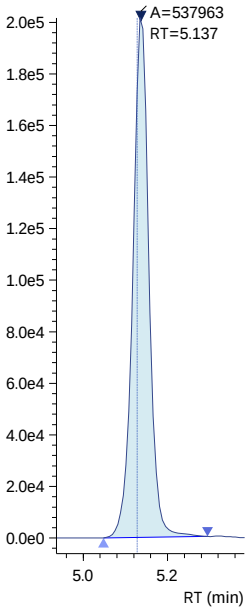


N-EtFOSAA-d5
Conc 5.0892
Q 588.80>419.00 (-) 2.02e5

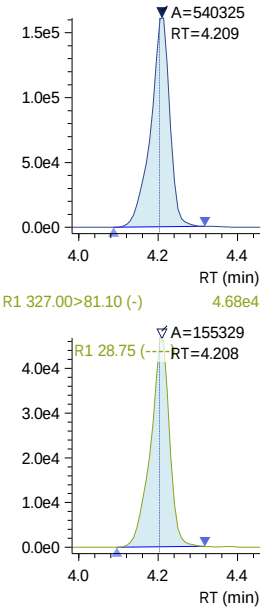


210909_012 (continued)

N-EtFOSAA-d5_IS
Conc 5.0000
ISTD 588.80>419.00 (-) 2.02e5

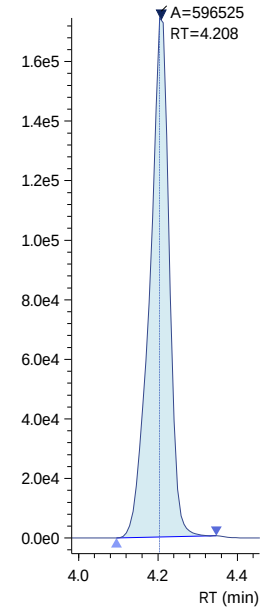


4_2-FTS_1
Conc 5.0164
R#1 28.75 (34.12)
Q 327.00>307.05 (-) 1.61e5

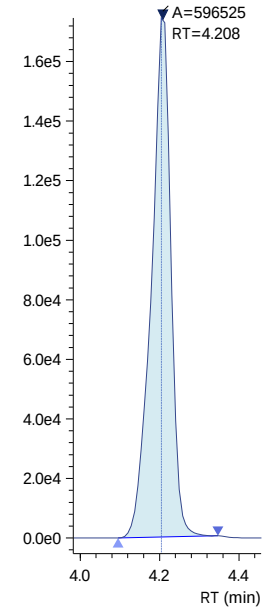


R1 327.00>81.10 (-) 4.68e4

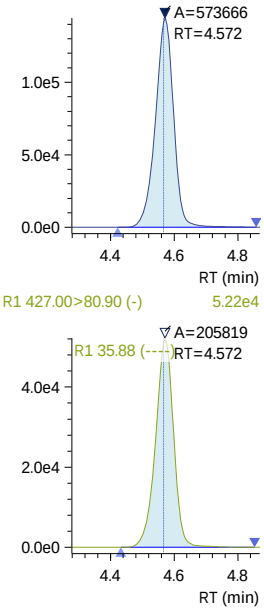
4_2-FTS-13C
Conc 5.0915
Q 328.80>309.05 (-) 1.75e5



4_2-FTS-13C_IS
Conc 5.0000
ISTD 328.80>309.05 (-) 1.75e5

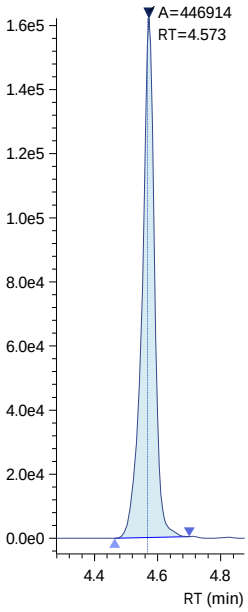


6_2-FTS_1
Conc 4.9194
R#1 35.88 (37.36)
Q 427.00>407.00 (-) 1.44e5

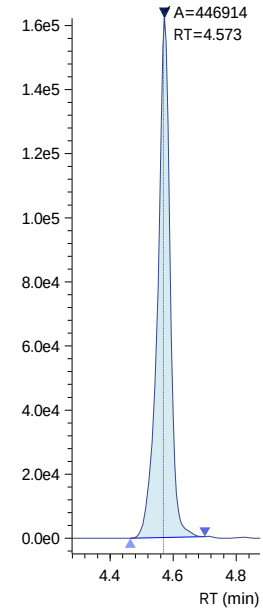


R1 427.00>80.90 (-) 5.22e4

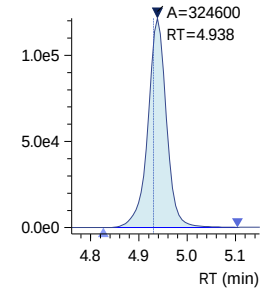
6_2-FTS-13C
Conc 4.5148
Q 428.90>409.00 (-) 1.62e5



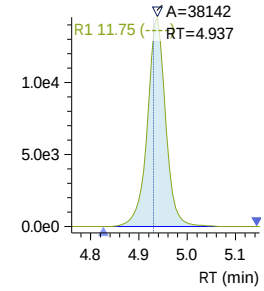
6_2-FTS-13C_IS
Conc 5.0000
ISTD 428.90>409.00 (-) 1.62e5



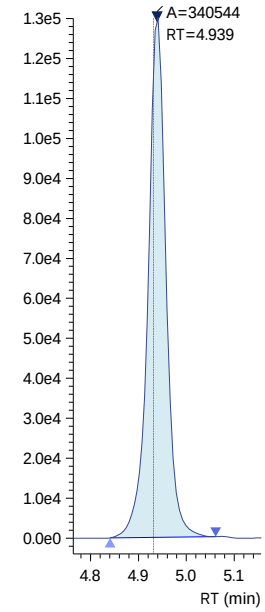
8_2-FTS_1
Conc 4.9890
R#1 11.75 (10.63)
Q 527.10>506.90 (-) 1.22e5



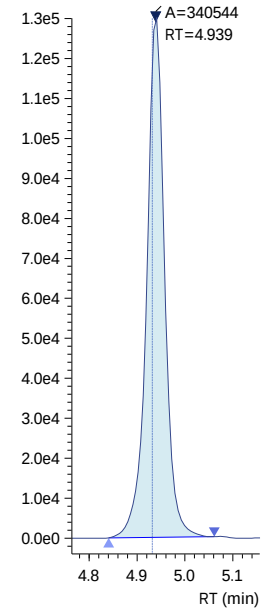
R1 527.20>487.00 (-) 1.45e4



8_2-FTS-13C
Conc 4.7324
Q 528.80>509.00 (-) 1.30e5

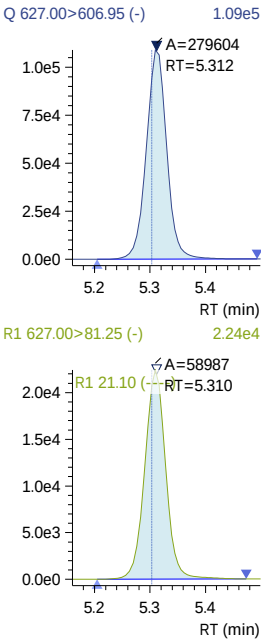


8_2-FTS-13C_IS
Conc 5.0000
ISTD 528.80>509.00 (-) 1.30e5

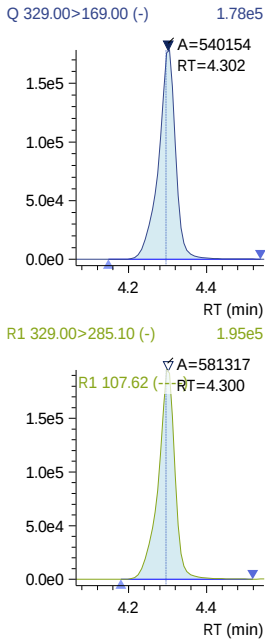


210909_012 (continued)

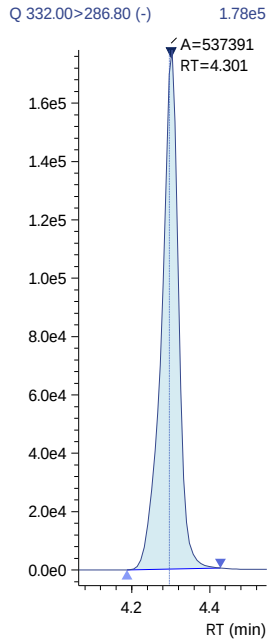
10_2-FtS_1
Conc 5.2937
R#1 21.10 (21.61)



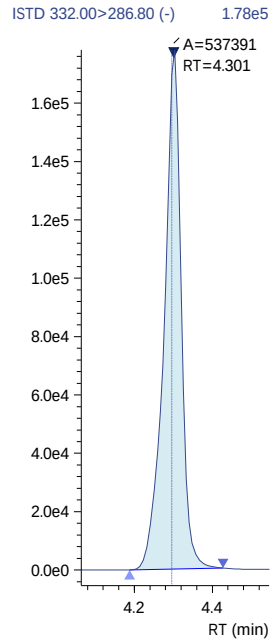
HPFO_DA
Conc 5.0278
R#1 107.62 (106.46)



HFPO_DA-13C
Conc 5.0649



HFPO_DA-13C_IS
Conc 5.0000



Insight Report
Before Manual Integration
Printed 9/9/2021 15:44:22

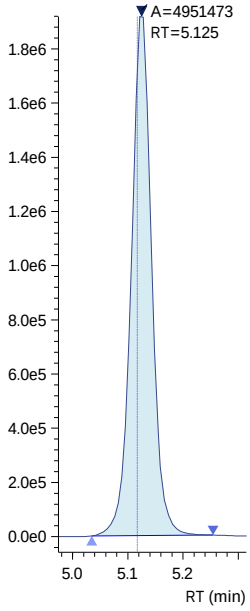
210909_012

Sample ID: PFC ICAL @ 5.0ppb
Date Acquired: 9/9/2021 2:36:47 PM
Acquired by: System Administrator
Data File: 210909_012
Vial: 5 | Inj. Volume: 15.0000uL | Tray: 0

13C7-PFUnDA_IS

Conc 5.0000

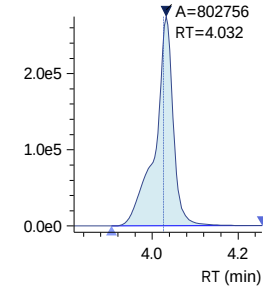
ISTD 570.00>525.00 (-) 1.92e6



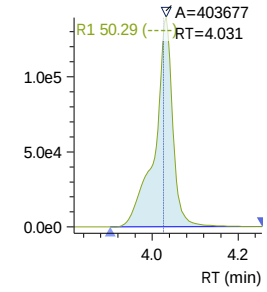
PFBS_1

Conc 4.3181
R#1 50.29 (46.55)

Q 299.00>80.00 (-) 2.75e5



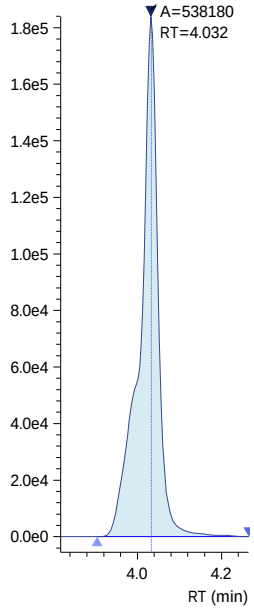
R1 298.80>99.00 (-) 1.39e5



PFBS-13C

Conc 4.9991

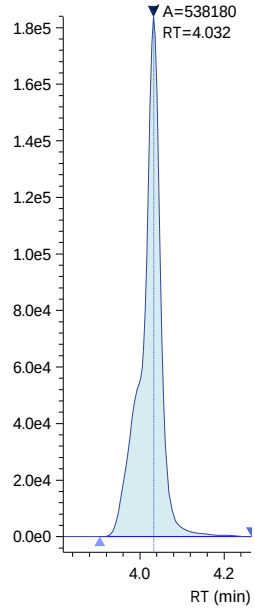
Q 301.80>80.00 (-) 1.84e5



PFBS-13C_IS

Conc 5.0000

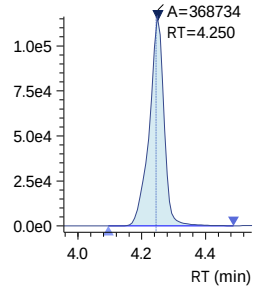
ISTD 301.80>80.00 (-) 1.84e5



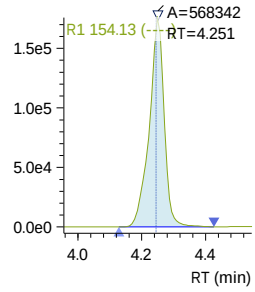
PFPeS

Conc 4.7199
R#1 154.13 (154.38)

Q 349.00>99.00 (-) 1.16e5

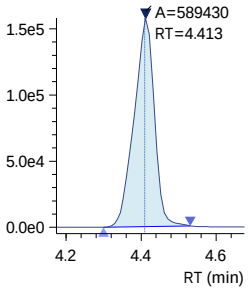


R1 349.00>79.95 (-) 1.76e5

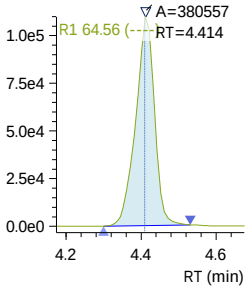


210909_012 (continued)

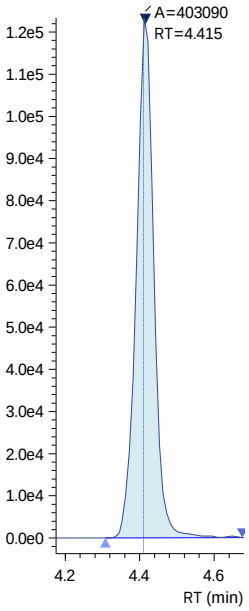
PFHxS_1
Conc 4.1024
R#1 64.56 (76.59)
Q 399.00>80.00 (-) 1.58e5



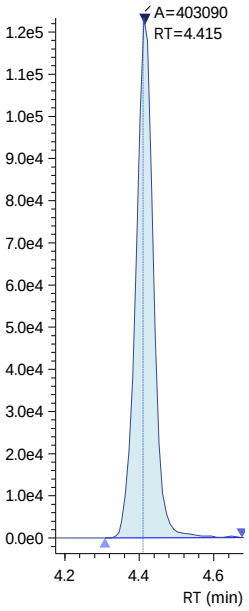
R1 399.00>99.00 (-) 1.10e5



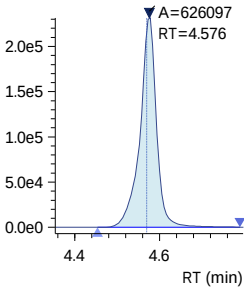
PFHxS-18O
Conc 5.2495
Q 402.70>84.05 (-) 1.23e5



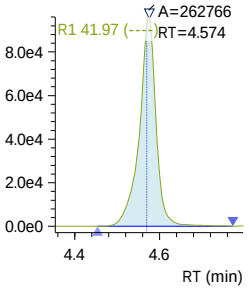
PFHxS-18O_IS
Conc 5.0000
ISTD 402.70>84.05 (-) 1.23e5



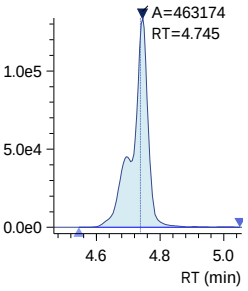
PFHpS_1
Conc 4.4626
R#1 41.97 (53.58)
Q 449.00>80.15 (-) 2.31e5



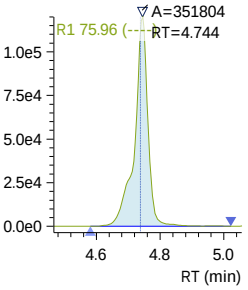
R1 449.00>99.20 (-) 9.61e4



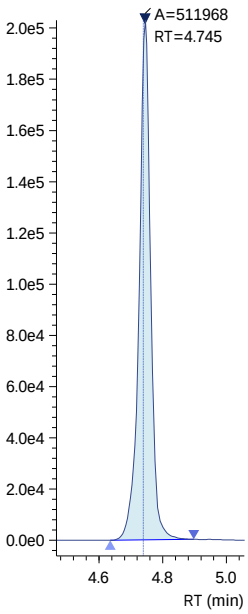
PFOS_1
Conc 4.8121
R#1 75.96 (84.68)
Q 499.00>80.00 (-) 1.34e5



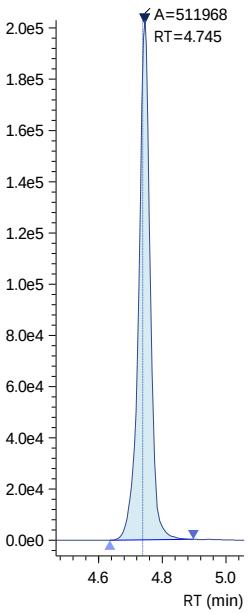
R1 499.00>99.00 (-) 1.20e5



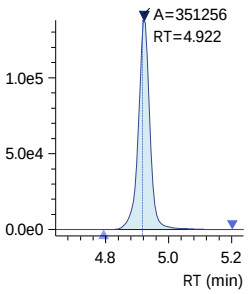
PFOS-13C
Conc 4.8791
Q 502.80>80.05 (-) 2.03e5



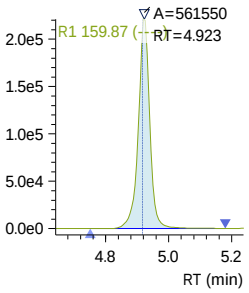
PFOS-13C_IS
Conc 5.0000
ISTD 502.80>80.05 (-) 2.03e5



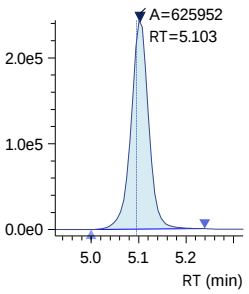
PFNS
Conc 4.9921
R#1 159.87 (133.04)
Q 549.00>99.00 (-) 1.38e5



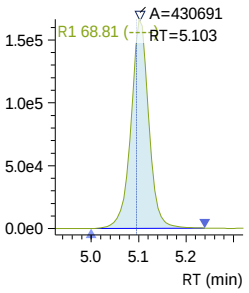
R1 549.00>79.95 (-) 2.21e5



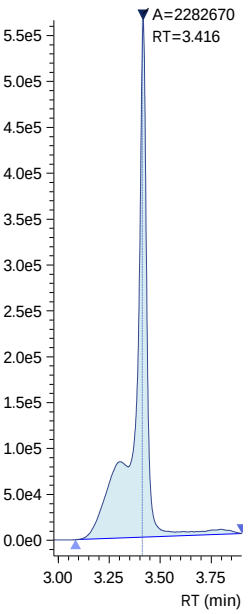
PFDS_1
Conc 5.1547
R#1 68.81 (89.20)
Q 599.00>79.90 (-) 2.44e5



R1 599.00>99.10 (-) 1.67e5

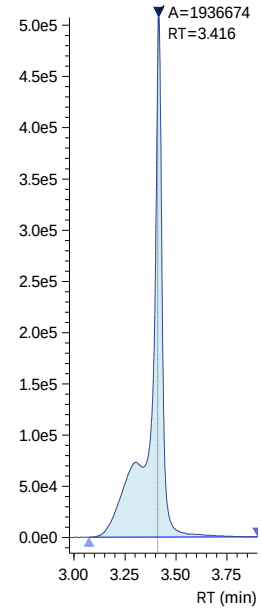


PFBA
Conc 5.0817
Q 213.00>169.10 (-) 5.67e5

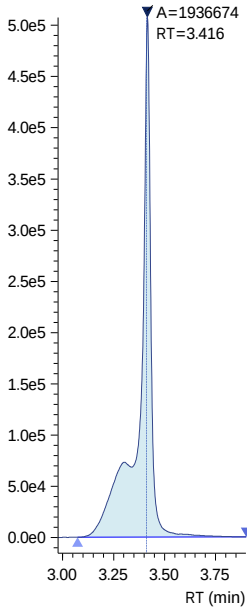


210909_012 (continued)

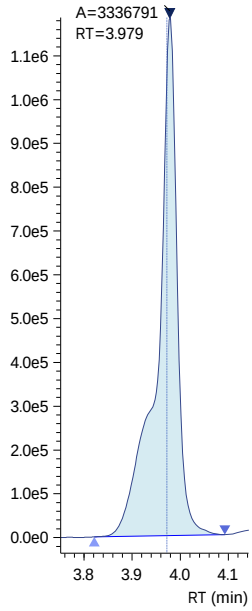
PFBA-13C
Conc 5.0144
Q 216.90>172.15 (-) 5.08e5



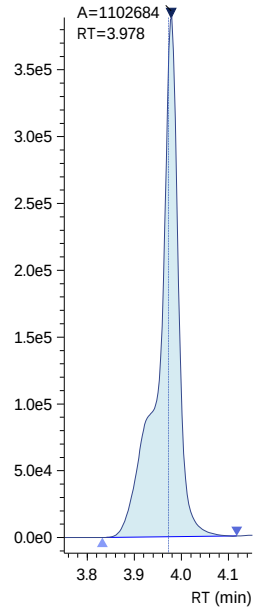
PFBA-13C_IS
Conc 5.0000
ISTD 216.90>172.15 (-) 5.08e5



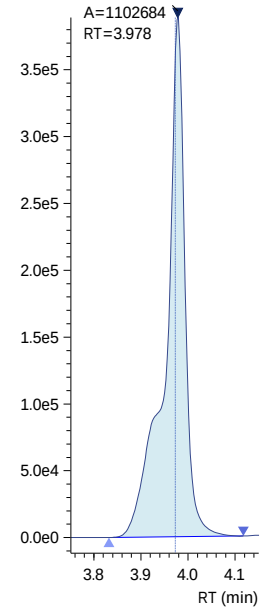
PFPeA
Conc 4.9428
Q 263.05>219.10 (-) 1.19e6



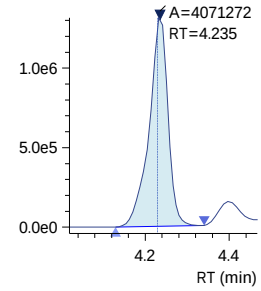
PFPeA-13C
Conc 4.9956
Q 267.90>223.00 (-) 3.89e5



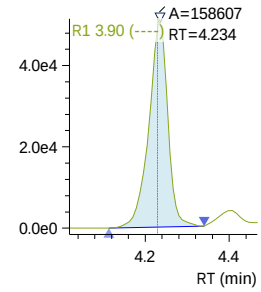
PFPeA-13C_IS
Conc 5.0000
ISTD 267.90>223.00 (-) 3.89e5



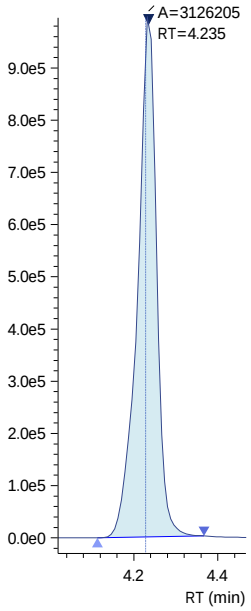
PFHxA
Conc 4.9841
R#1 3.90 (4.71)
Q 313.00>269.00 (-) 1.32e6



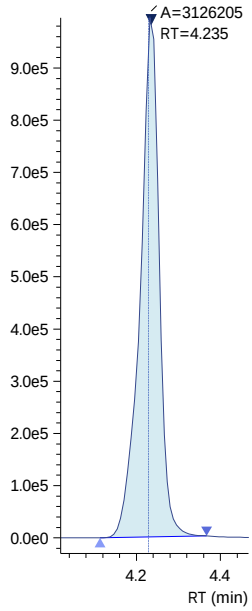
R1 313.00>119.10 (-) 5.15e4



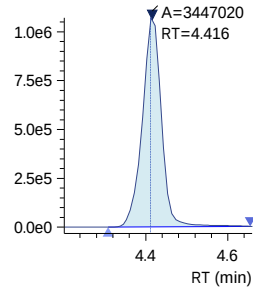
PFHxA-13C
Conc 4.9913
Q 314.90>270.10 (-) 9.96e5



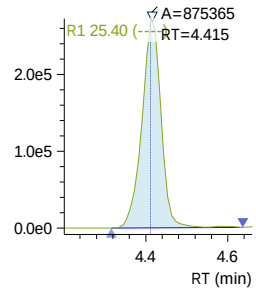
PFHxA-13C_IS
Conc 5.0000
ISTD 314.90>270.10 (-) 9.96e5



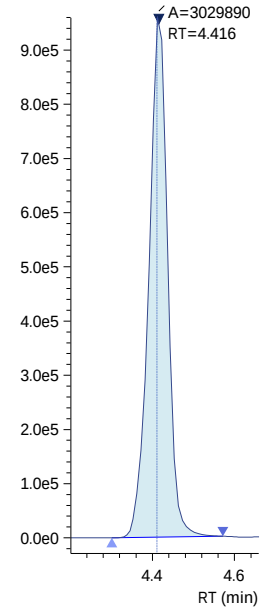
PFHpA
Conc 4.8874
R#1 25.40 (24.79)
Q 362.90>319.00 (-) 1.07e6



R1 362.90>169.00 (-) 2.72e5

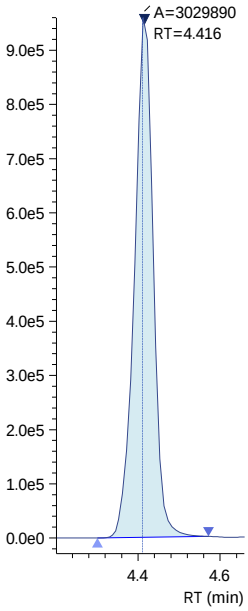


PFHpA-13C
Conc 5.3342
Q 366.90>322.10 (-) 9.60e5

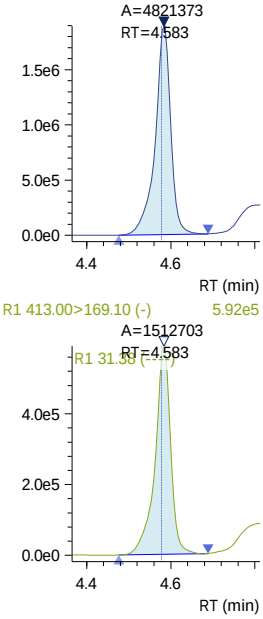


210909_012 (continued)

PFHpA-13C_IS
Conc 5.0000
ISTD 366.90>322.10 (-) 9.60e5

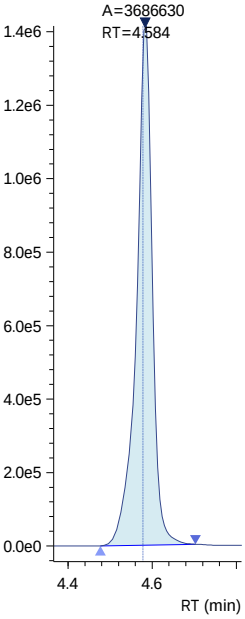


PFOA
Conc 5.0180
R#1 31.38 (30.61)
Q 413.00>369.00 (-) 1.90e6

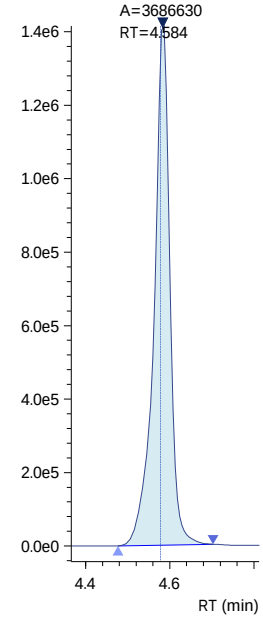


R1 413.00>169.10 (-) 5.92e5

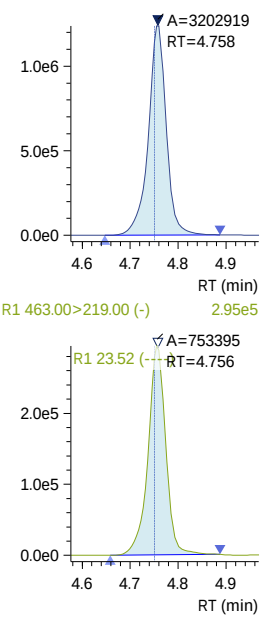
PFOA-13C
Conc 4.8548
Q 416.80>372.05 (-) 1.42e6



PFOA-13C_IS
Conc 5.0000
ISTD 416.80>372.05 (-) 1.42e6

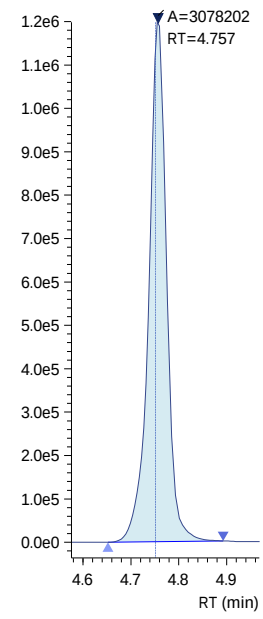


PFNA
Conc 5.0183
R#1 23.52 (23.82)
Q 463.00>418.90 (-) 1.24e6

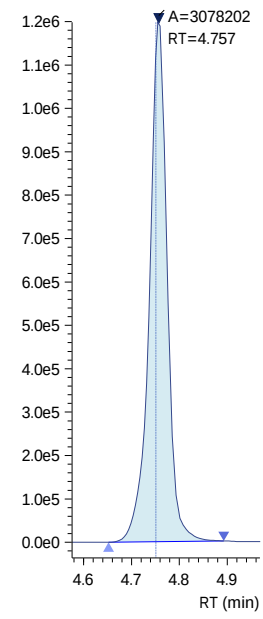


R1 463.00>219.00 (-) 2.95e5

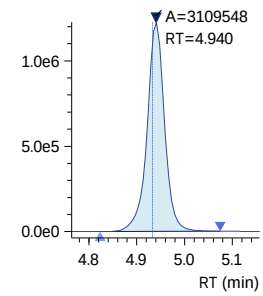
PFNA-13C
Conc 4.7050
Q 467.80>423.00 (-) 1.20e6



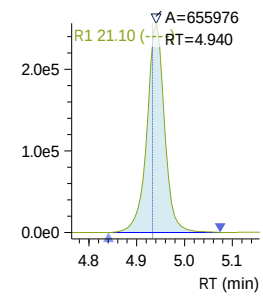
PFNA-13C_IS
Conc 5.0000
ISTD 467.80>423.00 (-) 1.20e6



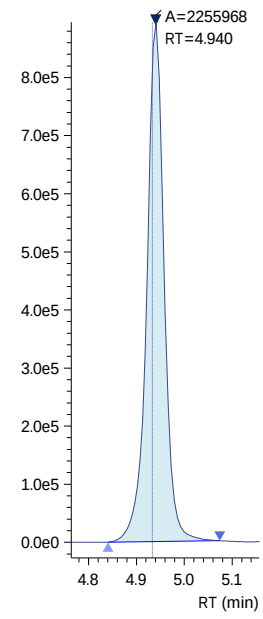
PFDA
Conc 4.8894
R#1 21.10 (20.11)
Q 513.00>468.80 (-) 1.23e6



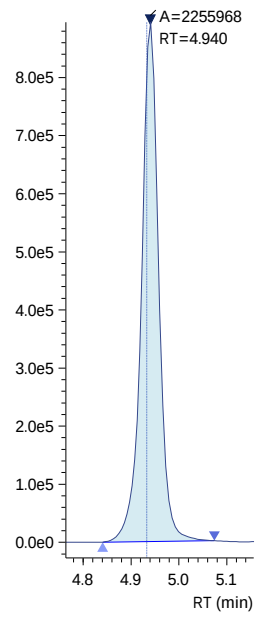
R1 513.00>219.10 (-) 2.57e5



PFDA-13C
Conc 4.9596
Q 514.80>469.95 (-) 8.95e5

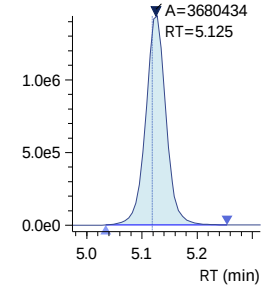


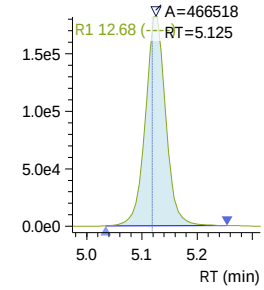
PFDA-13C_IS
Conc 5.0000
ISTD 514.80>469.95 (-) 8.95e5

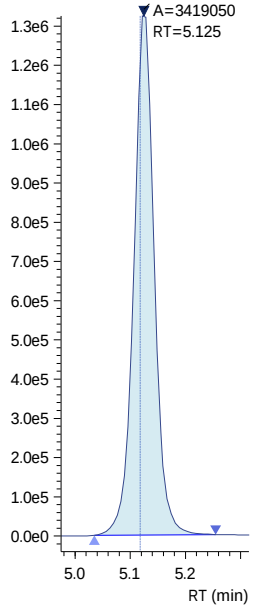


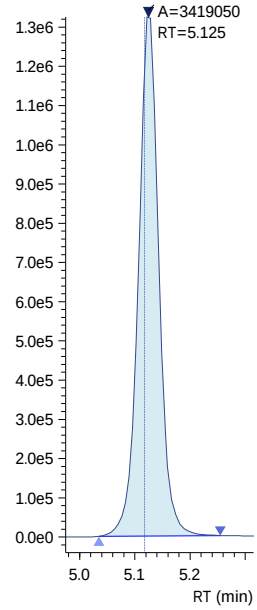
Insight Report
Before Manual Integration
Printed 9/9/2021 15:44:22

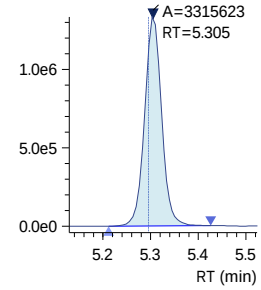
210909_012 (continued)

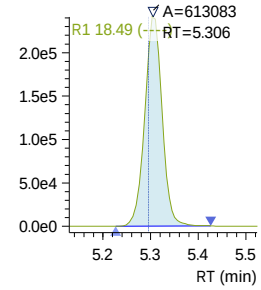
PFUnA
Conc 4.8635
R#1 12.68 (13.40)
Q 563.00>518.90 (-) 1.44e6


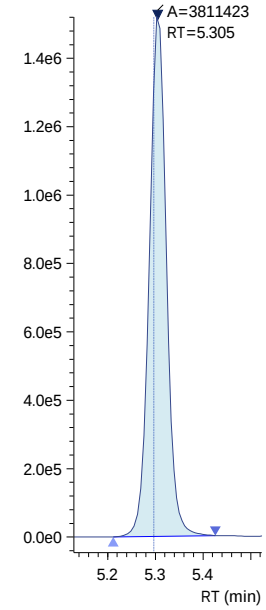
R1 563.00>219.00 (-) 1.82e5


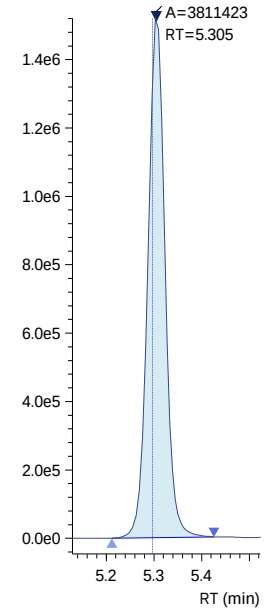
PFUnA-13C
Conc 4.9851
Q 564.80>519.95 (-) 1.33e6


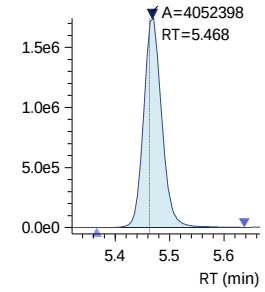
PFUnA-13C_IS
Conc 5.0000
ISTD 564.80>519.95 (-) 1.33e6


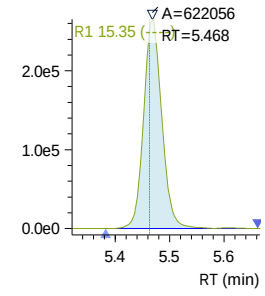
PFDoA
Conc 4.8697
R#1 18.49 (17.67)
Q 613.05>569.00 (-) 1.33e6


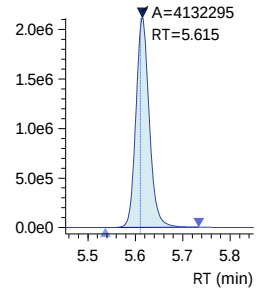
R1 613.05>169.00 (-) 2.41e5


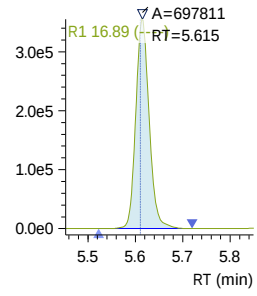
PFDoA-13C
Conc 5.0381
Q 614.80>569.95 (-) 1.52e6


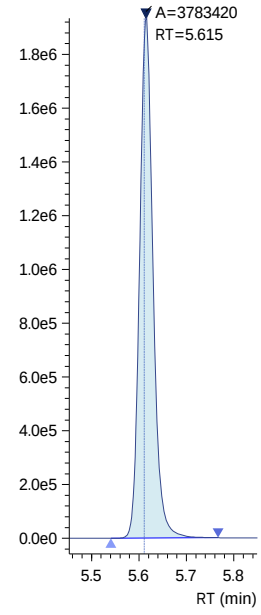
PFDoA-13C_IS
Conc 5.0000
ISTD 614.80>569.95 (-) 1.52e6


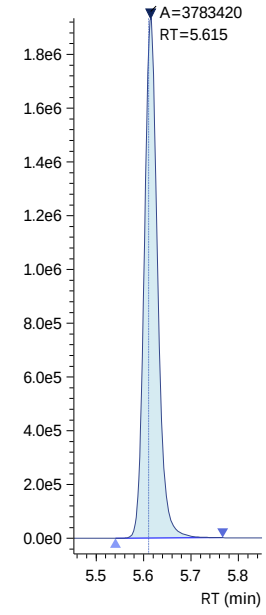
PFTrDA
Conc 5.2460
R#1 15.35 (14.03)
Q 663.00>618.90 (-) 1.74e6


R1 662.90>169.00 (-) 2.65e5


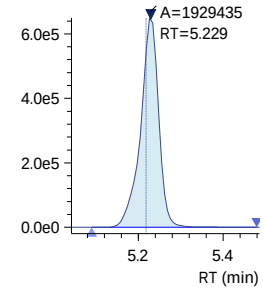
PFTeDA
Conc 4.9329
R#1 16.89 (16.71)
Q 713.00>669.00 (-) 2.11e6


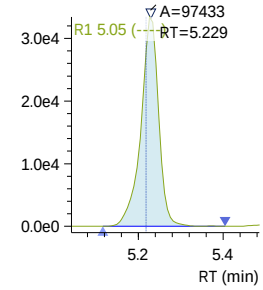
R1 713.00>169.10 (-) 3.55e5


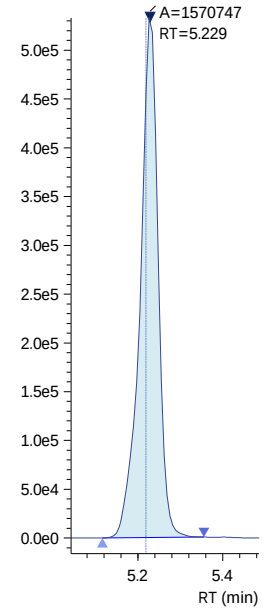
PFTeDA-13C
Conc 4.9844
Q 714.70>669.90 (-) 1.93e6


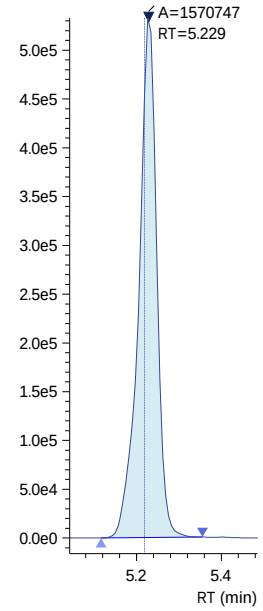
PFTeDA-13C_IS
Conc 5.0000
ISTD 714.70>669.90 (-) 1.93e6


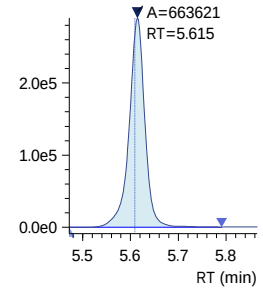
210909_012 (continued)

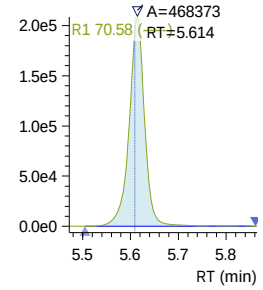
FOSA
Conc 5.1219
R#1 5.05 (4.71)
Q 498.20>78.00 (-) 6.49e5


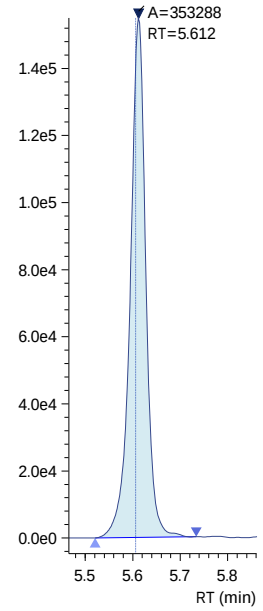
R1 498.20>64.10 (-) 3.34e4


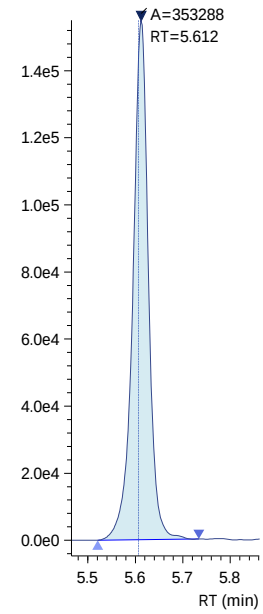
FOSA-13C
Conc 4.9874
Q 506.00>78.05 (-) 5.33e5


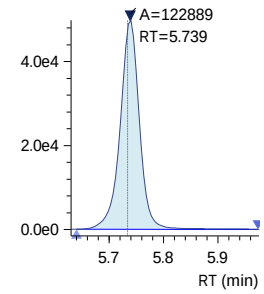
FOSA-13C_IS
Conc 5.0000
ISTD 506.00>78.05 (-) 5.33e5


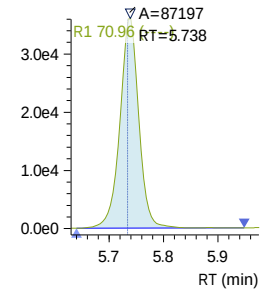
N-MeFOSA
Conc 4.9168
R#1 70.58 (66.26)
Q 512.00>169.10 (-) 2.90e5


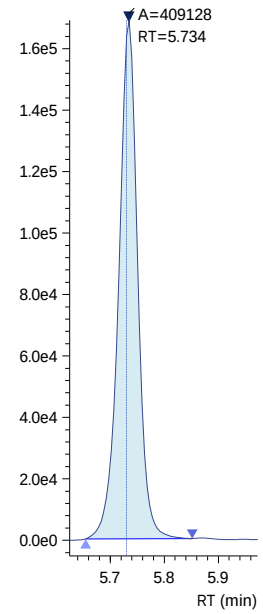
R1 512.00>219.00 (-) 2.09e5


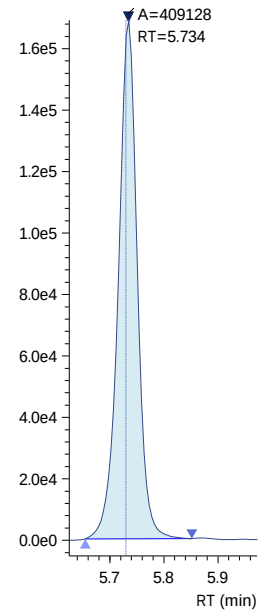
N-MeFOSA-d3
Conc 4.9995
Q 514.90>168.90 (-) 1.55e5


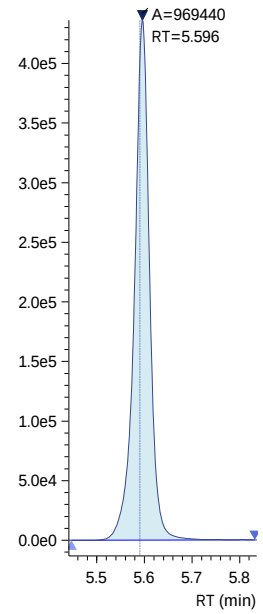
N-MeFOSA-d3_IS
Conc 5.0000
ISTD 514.90>168.90 (-) 1.55e5


N-EtFOSA
Conc 4.8160
R#1 70.96 (64.28)
Q 526.90>169.10 (-) 4.98e4


R1 526.90>219.00 (-) 3.60e4


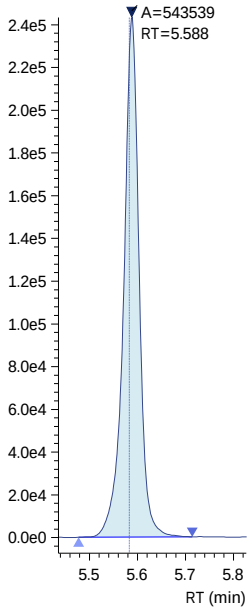
N-EtFOSA-d9
Conc 4.9698
Q 530.90>169.15 (-) 1.69e5


N-EtFOSA-d9_IS
Conc 5.0000
ISTD 530.90>169.15 (-) 1.69e5


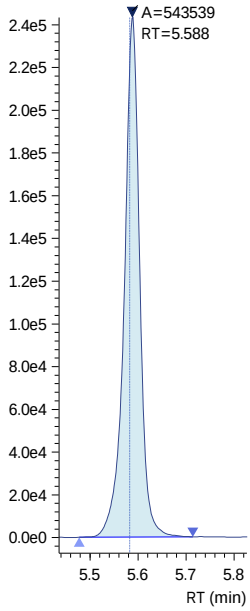
N-MeFOSE
Conc 4.9273
Q 616.00>59.00 (-) 4.36e5


210909_012 (continued)

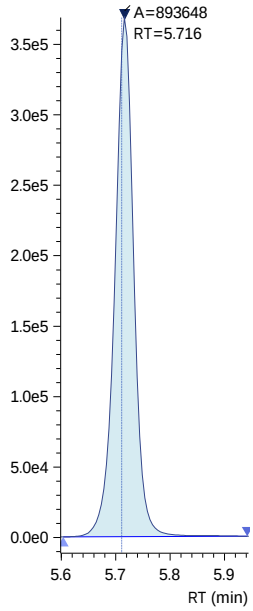
N-MeFOSE-d7
Conc 4.9952
Q 622.70>59.10 (-) 2.43e5



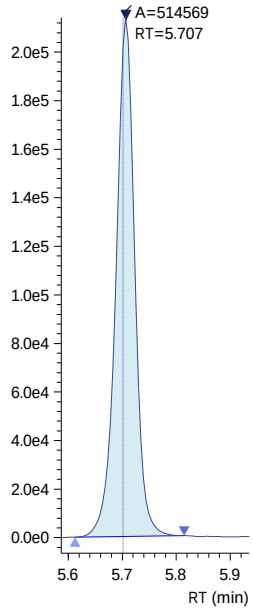
N-MeFOSE-d7_IS
Conc 5.0000
ISTD 622.70>59.10 (-) 2.43e5



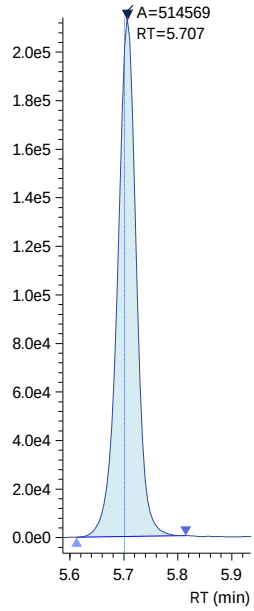
N-EtFOSE
Conc 4.9961
Q 630.00>58.90 (-) 3.69e5



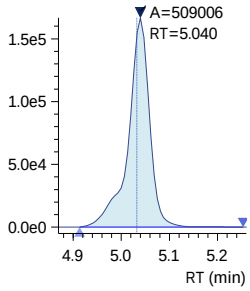
N-EtFOSE-d9
Conc 4.9937
Q 638.70>59.10 (-) 2.14e5



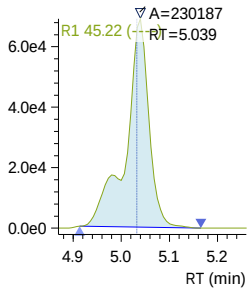
N-EtFOSE-d9_IS
Conc 5.0000
ISTD 638.70>59.10 (-) 2.14e5



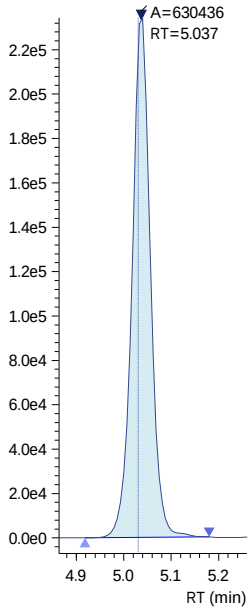
N-MeFOSAA
Conc 4.8330
R#1 45.22 (39.15)
Q 570.20>419.00 (-) 1.67e5



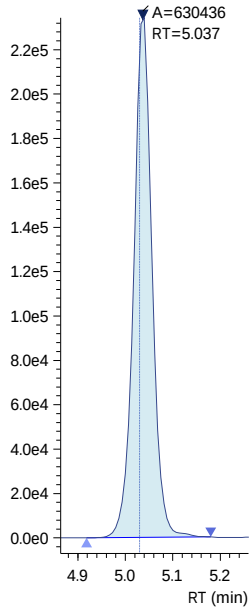
R1 570.20>512.00 (-) 6.92e4



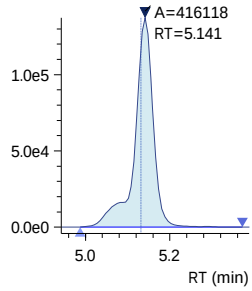
N-MeFOSAA-d3
Conc 5.0431
Q 572.80>419.05 (-) 2.34e5



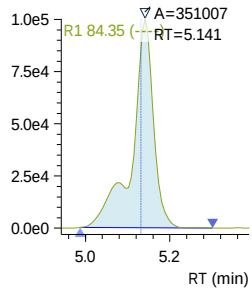
N-MeFOSAA-d3_IS
Conc 5.0000
ISTD 572.80>419.05 (-) 2.34e5



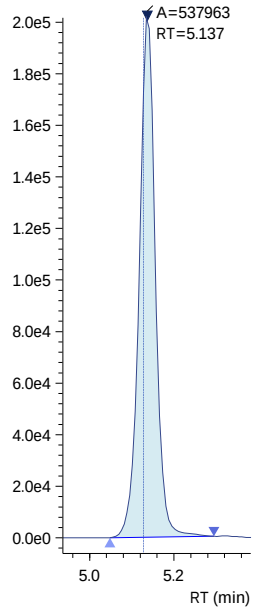
N-EtFOSAA
Conc 5.1089
R#1 84.35 (76.53)
Q 584.20>418.95 (-) 1.37e5



R1 584.20>526.10 (-) 1.00e5

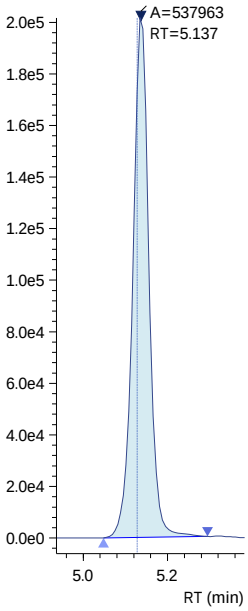


N-EtFOSAA-d5
Conc 5.0892
Q 588.80>419.00 (-) 2.02e5

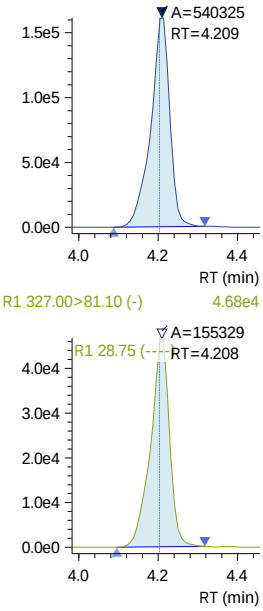


210909_012 (continued)

N-EtFOSAA-d5_IS
Conc 5.0000
ISTD 588.80>419.00 (-) 2.02e5

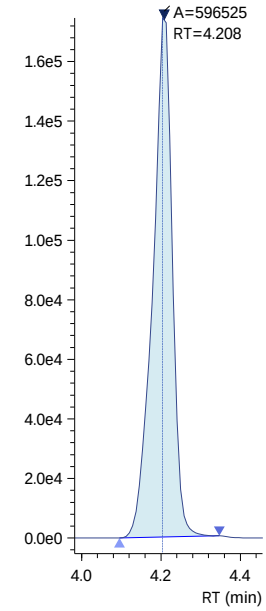


4_2-FTS_1
Conc 5.0164
R#1 28.75 (26.47)
Q 327.00>307.05 (-) 1.61e5

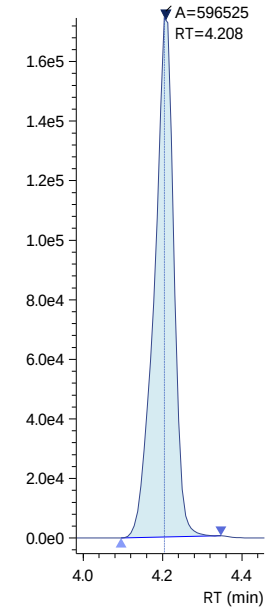


R1 327.00>81.10 (-) 4.68e4

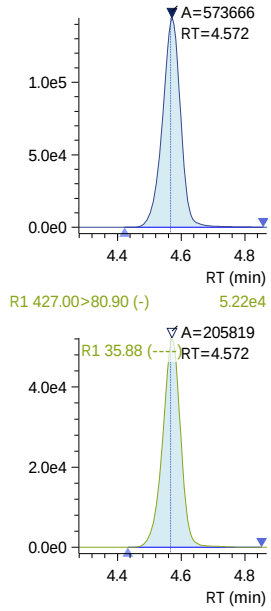
4_2-FTS-13C
Conc 5.0915
Q 328.80>309.05 (-) 1.75e5



4_2-FTS-13C_IS
Conc 5.0000
ISTD 328.80>309.05 (-) 1.75e5

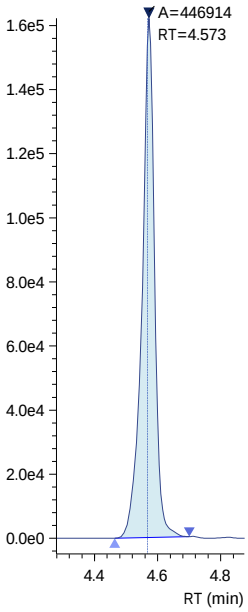


6_2-FTS_1
Conc 4.8939
R#1 35.88 (30.68)
Q 427.00>407.00 (-) 1.44e5

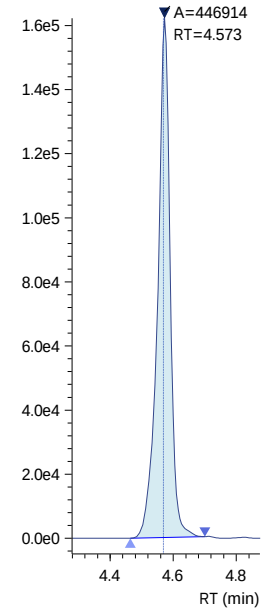


R1 427.00>80.90 (-) 5.22e4

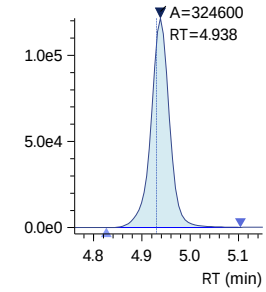
6_2-FTS-13C
Conc 4.5148
Q 428.90>409.00 (-) 1.62e5



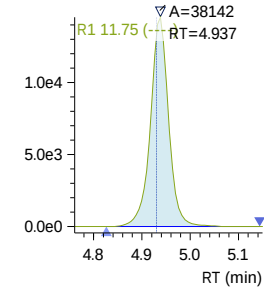
6_2-FTS-13C_IS
Conc 5.0000
ISTD 428.90>409.00 (-) 1.62e5



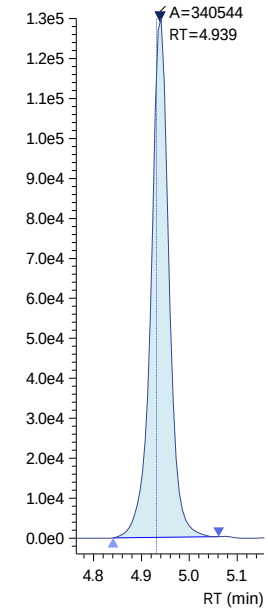
8_2-FTS_1
Conc 4.9890
R#1 11.75 (8.90)
Q 527.10>506.90 (-) 1.22e5



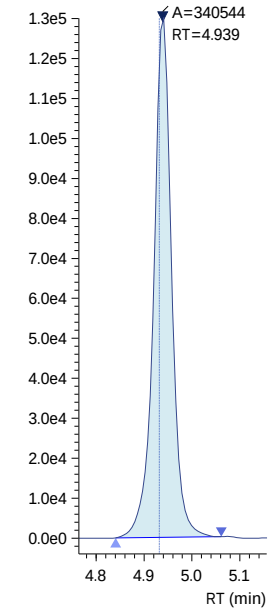
R1 527.20>487.00 (-) 1.45e4



8_2-FTS-13C
Conc 4.7324
Q 528.80>509.00 (-) 1.30e5

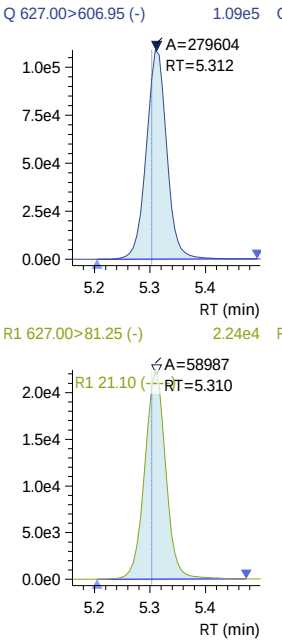


8_2-FTS-13C_IS
Conc 5.0000
ISTD 528.80>509.00 (-) 1.30e5

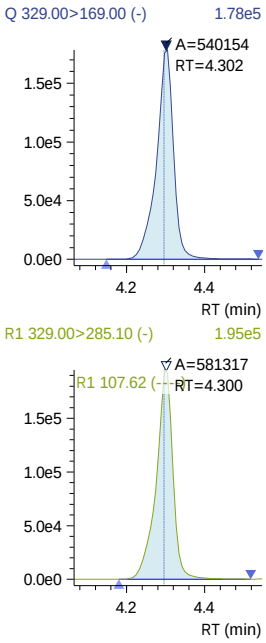


210909_012 (continued)

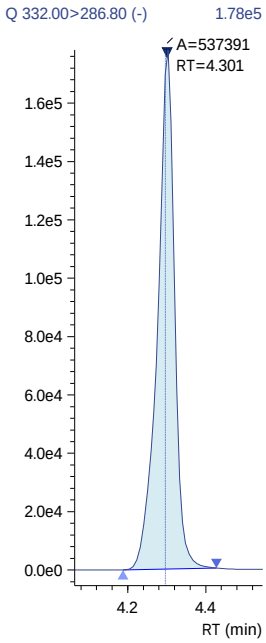
10_2-FtS_1
Conc 5.2937
R#1 21.10 (26.33)



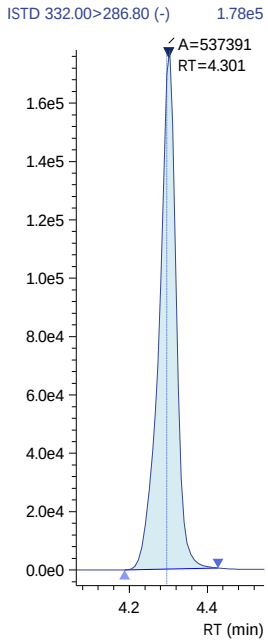
HPFO_DA
Conc 4.9541
R#1 107.62 (103.01)



HFPO_DA-13C
Conc 5.0649



HFPO_DA-13C_IS
Conc 5.0000



Insight Report
Retention Time/Signal:Noise Ratio Confirmation
Printed 9/9/2021 16:28:51

210909_013

Sample ID: PFC ICAL @ 10ppb
Date Acquired: 9/9/2021 2:47:13 PM
Acquired by: System Administrator
Data File: 210909_013
Vial: 6 | Inj. Volume: 15.0000uL | Tray: 0

Name	m/z	Ref 1 m/z	Found RT	RT Diff	ISTD RT Diff	S/N	Ref 1 S/N	Flag ID
13C7-PFUnDA_IS	570.00>525.00	----	5.117	0.000	----	1404	----	
PFBS_1	299.00>80.00	298.80>99.00	4.025	-0.002	0.000	82610	31282	
PFBS-13C	301.80>80.00	----	4.025	-0.008	-1.092	(INF)	----	
PFBS-13C_IS	301.80>80.00	----	4.025	-0.008	----	(INF)	----	
PFPeS	349.00>99.00	349.00>79.95	4.243	-0.002	0.218	(INF)	(INF)	
PFHxS_1	399.00>80.00	399.00>99.00	4.403	-0.007	-0.004	937484	315957	
PFHxS-18O	402.70>84.05	----	4.407	-0.003	-0.710	(INF)	----	
PFHxS-18O_IS	402.70>84.05	----	4.407	-0.003	----	(INF)	----	
PFHpS_1	449.00>80.15	449.00>99.20	4.568	-0.002	0.161	142824	(INF)	
PFOS_1	499.00>80.00	499.00>99.00	4.737	-0.001	0.000	(INF)	(INF)	
PFOS-13C	502.80>80.05	----	4.737	-0.002	-0.380	(INF)	----	
PFOS-13C_IS	502.80>80.05	----	4.737	-0.002	----	(INF)	----	
PFNS	549.00>99.00	549.00>79.95	4.914	-0.002	0.177	(INF)	1852966	
PFDS_1	599.00>79.90	599.00>99.10	5.095	0.000	0.358	(INF)	(INF)	
PFBA	213.00>169.10	----	3.409	-0.002	0.001	4974	----	
PFBA-13C	216.90>172.15	----	3.408	-0.002	-1.709	3990	----	
PFBA-13C_IS	216.90>172.15	----	3.408	-0.002	----	3990	----	
PFPeA	263.05>219.10	----	3.972	-0.001	0.000	6514	----	
PFPeA-13C	267.90>223.00	----	3.972	-0.001	-1.145	18654	----	
PFPeA-13C_IS	267.90>223.00	----	3.972	-0.001	----	18654	----	
PFHxA	313.00>269.00	313.00>119.10	4.227	-0.002	0.000	35952	(INF)	
PFHxA-13C	314.90>270.10	----	4.227	-0.002	-0.890	20347	----	
PFHxA-13C_IS	314.90>270.10	----	4.227	-0.002	----	20347	----	
PFHpA	362.90>319.00	362.90>169.00	4.408	-0.004	0.001	17320	(INF)	
PFHpA-13C	366.90>322.10	----	4.407	-0.004	-0.710	23834	----	
PFHpA-13C_IS	366.90>322.10	----	4.407	-0.004	----	23834	----	
PFOA	413.00>369.00	413.00>169.10	4.577	-0.001	0.000	11856	25235	
PFOA-13C	416.80>372.05	----	4.577	-0.001	-0.540	22112	----	
PFOA-13C_IS	416.80>372.05	----	4.577	-0.001	----	22112	----	
PFNA	463.00>418.90	463.00>219.00	4.751	0.000	0.001	218892	7514	
PFNA-13C	467.80>423.00	----	4.750	-0.001	-0.367	90244	----	
PFNA-13C_IS	467.80>423.00	----	4.750	-0.001	----	90244	----	
PFDA	513.00>468.80	513.00>219.10	4.933	0.000	0.000	74614	459975	
PFDA-13C	514.80>469.95	----	4.933	0.000	-0.184	11708	----	
PFDA-13C_IS	514.80>469.95	----	4.933	0.000	----	11708	----	
PFUnA	563.00>518.90	563.00>219.00	5.117	-0.001	-0.001	1394	1217	
PFUnA-13C	564.80>519.95	----	5.118	0.000	0.001	1170	----	
PFUnA-13C_IS	564.80>519.95	----	5.118	0.000	----	1170	----	
PFDoA	613.05>569.00	613.05>169.00	5.297	0.001	0.000	(INF)	(INF)	
PFDoA-13C	614.80>569.95	----	5.297	0.000	0.180	(INF)	----	
PFDoA-13C_IS	614.80>569.95	----	5.297	0.000	----	(INF)	----	
PFTrDA	663.00>618.90	662.90>169.00	5.461	-0.002	-0.147	(INF)	(INF)	
PFTeDA	713.00>669.00	713.00>169.10	5.608	-0.003	0.000	16270	23215	
PFTeDA-13C	714.70>669.90	----	5.608	-0.003	0.491	50204	----	
PFTeDA-13C_IS	714.70>669.90	----	5.608	-0.003	----	45128	----	
FOSA	498.20>78.00	498.20>64.10	5.221	0.003	-0.001	(INF)	(INF)	
FOSA-13C	506.00>78.05	----	5.222	0.003	0.105	2393	----	
FOSA-13C_IS	506.00>78.05	----	5.222	0.003	----	2393	----	
N-MeFOSA	512.00>169.10	512.00>219.00	5.608	-0.001	0.003	(INF)	10563	
N-MeFOSA-d3	514.90>168.90	----	5.605	-0.001	0.488	1268	----	
N-MeFOSA-d3_IS	514.90>168.90	----	5.605	-0.001	----	1268	----	

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SN - Software-calculated S/N ratio outside criteria due to non-target peaks or drift in noise calculation window. Analyst review of noise levels (excluding non-target peaks) in chromatogram indicates S/N ratio meets criteria.

Insight Report
Retention Time/Signal:Noise Ratio Confirmation
Printed 9/9/2021 16:28:51

210909_013 (continued)

(Table continued from previous page)

Name	m/z	Ref 1 m/z	Found RT	RT Diff	ISTD RT Diff	S/N	Ref 1 S/N	Flag ID
N-EtFOSA	526.90>169.10	526.90>219.00	5.732	-0.002	0.005	(INF)	(INF)	
N-EtFOSA-d9	530.90>169.15	----	5.727	-0.003	0.610	1537	----	
N-EtFOSA-d9_IS	530.90>169.15	----	5.727	-0.003	----	1537	----	
N-MeFOSE	616.00>59.00	----	5.589	-0.001	0.007	(INF)	----	
N-MeFOSE-d7	622.70>59.10	----	5.582	-0.001	0.465	3405	----	
N-MeFOSE-d7_IS	622.70>59.10	----	5.582	-0.001	----	3405	----	
N-EtFOSE	630.00>58.90	----	5.710	-0.001	0.010	(INF)	----	
N-EtFOSE-d9	638.70>59.10	----	5.700	-0.001	0.583	1972	----	
N-EtFOSE-d9_IS	638.70>59.10	----	5.700	-0.001	----	1972	----	
N-MeFOSAA	570.20>419.00	570.20>512.00	5.032	-0.001	0.002	1793	430	
N-MeFOSAA-d3	572.80>419.05	----	5.030	0.000	-0.087	(INF)	----	
N-MeFOSAA-d3_IS	572.80>419.05	----	5.030	0.000	----	(INF)	----	
N-EtFOSAA	584.20>418.95	584.20>526.10	5.133	0.001	0.004	2082	904	
N-EtFOSAA-d5	588.80>419.00	----	5.129	0.001	0.012	44696	----	
N-EtFOSAA-d5_IS	588.80>419.00	----	5.129	0.001	----	44696	----	
4_2-FTS_1	327.00>307.05	327.00>81.10	4.201	-0.002	0.000	607429	(INF)	
4_2-FTS-13C	328.80>309.05	----	4.201	-0.003	-0.916	(INF)	----	
4_2-FTS-13C_IS	328.80>309.05	----	4.201	-0.003	----	(INF)	----	
6_2-FTS_1	427.00>407.00	427.00>80.90	4.563	-0.004	-0.002	(INF)	(INF)	
6_2-FTS-13C	428.90>409.00	----	4.565	-0.003	-0.552	(INF)	----	
6_2-FTS-13C_IS	428.90>409.00	----	4.565	-0.003	----	(INF)	----	
8_2-FTS_1	527.10>506.90	527.20>487.00	4.931	0.001	-0.001	(INF)	(INF)	
8_2-FTS-13C	528.80>509.00	----	4.932	0.000	-0.185	(INF)	----	
8_2-FTS-13C_IS	528.80>509.00	----	4.932	0.000	----	(INF)	----	
10_2-FtS_1	627.00>606.95	627.00>81.25	5.304	0.001	0.372	(INF)	(INF)	
HPFO_DA	329.00>169.00	329.00>285.10	4.294	-0.002	0.000	29454	24865	
HFPO_DA-13C	332.00>286.80	----	4.294	-0.002	-0.823	10793	----	
HFPO_DA-13C_IS	332.00>286.80	----	4.294	-0.002	----	10793	----	

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SN - Software-calculated S/N ratio outside criteria due to non-target peaks or drift in noise calculation window. Analyst review of noise levels (excluding non-target peaks) in chromatogram indicates S/N ratio meets criteria.

Insight Report
Ion Ratio Confirmation
Printed 9/9/2021 16:29:39

210909_013

Sample ID: PFC ICAL @ 10ppb
Date Acquired: 9/9/2021 2:47:13 PM
Acquired by: System Administrator
Data File: 210909_013
Vial: 6 | Inj. Volume: 15.0000uL | Tray: 0

Name	m/z	Ref 1 m/z	Area	Ref 1 Measured	Ref 1 Actual Ratio	Ref 1 Set Ratio	Comment 1	Flag ID
13C7-PFUnDA_IS	570.00>525.00	----	4516461	----	----	----		
PFBS_1	299.00>80.00	298.80>99.00	1508509	741828	49.18	49.34	24.67-74.01	
PFBS-13C	301.80>80.00	----	505441	----	----	----	0-0	
PFBS-13C_IS	301.80>80.00	----	505441	----	----	----	0-0	
PFPeS	349.00>99.00	349.00>79.95	675048	1019219	150.99	151.30	75.65 -226.95	
PFHxS_1	399.00>80.00	399.00>99.00	1019398	655137	64.27	62.92	31.46-94.38	
PFHxS-18O	402.70>84.05	----	357197	----	----	----	0-0	
PFHxS-18O_IS	402.70>84.05	----	357197	----	----	----	0-0	
PFHpS_1	449.00>80.15	449.00>99.20	1173803	471030	40.13	40.53	20.26-60.79	
PFOS_1	499.00>80.00	499.00>99.00	875133	651038	74.39	73.81	36.91 -110.72	
PFOS-13C	502.80>80.05	----	489149	----	----	----	0-0	
PFOS-13C_IS	502.80>80.05	----	489149	----	----	----	0-0	
PFNS	549.00>99.00	549.00>79.95	631876	1008894	159.67	160.25	80.13 -240.38	
PFDS_1	599.00>79.90	599.00>99.10	1081666	778743	72.00	72.12	36.06 -108.19	
PFBA	213.00>169.10	----	4276470	----	----	----		
PFBA-13C	216.90>172.15	----	1835962	----	----	----		
PFBA-13C_IS	216.90>172.15	----	1835962	----	----	----		
PFPeA	263.05>219.10	----	6276018	----	----	----		
PFPeA-13C	267.90>223.00	----	1047341	----	----	----	0-0	
PFPeA-13C_IS	267.90>223.00	----	1047341	----	----	----	0-0	
PFHxA	313.00>269.00	313.00>119.10	7690657	302098	3.93	4.40	2.2-6.61	
PFHxA-13C	314.90>270.10	----	3017134	----	----	----	0-0	
PFHxA-13C_IS	314.90>270.10	----	3017134	----	----	----	0-0	
PFHpA	362.90>319.00	362.90>169.00	6139692	1546020	25.18	24.40	12.2-36.6	
PFHpA-13C	366.90>322.10	----	2626584	----	----	----	0-0	
PFHpA-13C_IS	366.90>322.10	----	2626584	----	----	----	0-0	
PFOA	413.00>369.00	413.00>169.10	8923335	2757338	30.90	31.89	15.94-47.83	
PFOA-13C	416.80>372.05	----	3564833	----	----	----	0-0	
PFOA-13C_IS	416.80>372.05	----	3564833	----	----	----	0-0	
PFNA	463.00>418.90	463.00>219.00	6380881	1519890	23.82	23.25	11.63-34.88	
PFNA-13C	467.80>423.00	----	3028474	----	----	----	0-0	
PFNA-13C_IS	467.80>423.00	----	3028474	----	----	----	0-0	
PFDA	513.00>468.80	513.00>219.10	5666849	1211595	21.38	20.24	10.12-30.36	
PFDA-13C	514.80>469.95	----	2049195	----	----	----	0-0	
PFDA-13C_IS	514.80>469.95	----	2049195	----	----	----	0-0	
PFUnA	563.00>518.90	563.00>219.00	7006522	895454	12.78	12.46	6.23-18.69	
PFUnA-13C	564.80>519.95	----	3071472	----	----	----	0-0	
PFUnA-13C_IS	564.80>519.95	----	3071472	----	----	----	0-0	
PFDoA	613.05>569.00	613.05>169.00	6284219	1080575	17.20	16.50	8.25-24.76	
PFDoA-13C	614.80>569.95	----	3547100	----	----	----	0-0	
PFDoA-13C_IS	614.80>569.95	----	3547100	----	----	----	0-0	
PFTrDA	663.00>618.90	662.90>169.00	7196097	1114907	15.49	15.29	7.65-22.94	
PFTeDA	713.00>669.00	713.00>169.10	7480400	1244785	16.64	17.47	8.73-26.2	
PFTeDA-13C	714.70>669.90	----	3474315	----	----	----	0-0	
PFTeDA-13C_IS	714.70>669.90	----	3474315	----	----	----	0-0	
FOSA	498.20>78.00	498.20>64.10	3592791	179407	4.99	5.19	2.6-7.79	
FOSA-13C	506.00>78.05	----	1489006	----	----	----	0-0	

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Comment 1 field specifies acceptance range for Ref 1 ratio.
IRr - Ion ratio outside criteria. Exceedances for results above the MDL to be "K" flagged in the analytical report.

Insight Report
Ion Ratio Confirmation
Printed 9/9/2021 16:29:39

210909_013 (continued)

(Table continued from previous page)

Name	m/z	Ref 1 m/z	Area	Ref 1 Measured	Ref 1 Actual Ratio	Ref 1 Set Ratio	Comment 1	Flag ID
FOSA-13C_IS	506.00>78.05	----	1489006	----	----	----	0-0	
N-MeFOSA	512.00>169.10	512.00>219.00	1252498	860118	68.67	69.94	34.97 -104.91	
N-MeFOSA-d3	514.90>168.90	----	332804	----	----	----	0-0	
N-MeFOSA-d3_IS	514.90>168.90	----	332804	----	----	----	0-0	
N-EtFOSA	526.90>169.10	526.90>219.00	234156	164766	70.37	66.52	33.26-99.77	
N-EtFOSA-d9	530.90>169.15	----	392389	----	----	----	0-0	
N-EtFOSA-d9_IS	530.90>169.15	----	392389	----	----	----	0-0	
N-MeFOSE	616.00>59.00	----	1801153	----	----	----		
N-MeFOSE-d7	622.70>59.10	----	518127	----	----	----		
N-MeFOSE-d7_IS	622.70>59.10	----	518127	----	----	----		
N-EtFOSE	630.00>58.90	----	1657052	----	----	----		
N-EtFOSE-d9	638.70>59.10	----	492520	----	----	----	0-0	
N-EtFOSE-d9_IS	638.70>59.10	----	492520	----	----	----	0-0	
N-MeFOSAA	570.20>419.00	570.20>512.00	1004413	432004	43.01	39.56	19.78-59.34	
N-MeFOSAA-d3	572.80>419.05	----	603432	----	----	----	0-0	
N-MeFOSAA-d3_IS	572.80>419.05	----	603432	----	----	----	0-0	
N-EtFOSAA	584.20>418.95	584.20>526.10	712485	649109	91.11	84.54	42.27 -126.81	
N-EtFOSAA-d5	588.80>419.00	----	484905	----	----	----	0-0	
N-EtFOSAA-d5_IS	588.80>419.00	----	484905	----	----	----	0-0	
4_2-FTS_1	327.00>307.05	327.00>81.10	906759	265119	29.24	34.12	17.06-51.19	
4_2-FTS-13C	328.80>309.05	----	567346	----	----	----	0-0	
4_2-FTS-13C_IS	328.80>309.05	----	567346	----	----	----	0-0	
6_2-FTS_1	427.00>407.00	427.00>80.90	1027028	364299	35.47	37.36	18.68-56.04	
6_2-FTS-13C	428.90>409.00	----	447379	----	----	----	0-0	
6_2-FTS-13C_IS	428.90>409.00	----	447379	----	----	----	0-0	
8_2-FTS_1	527.10>506.90	527.20>487.00	559915	62993	11.25	10.63	5.32-15.95	
8_2-FTS-13C	528.80>509.00	----	320481	----	----	----	0-0	
8_2-FTS-13C_IS	528.80>509.00	----	320481	----	----	----	0-0	
10_2-FtS_1	627.00>606.95	627.00>81.25	476514	104679	21.97	21.61	10.8-32.41	
HPFO_DA	329.00>169.00	329.00>285.10	1025084	1081505	105.50	106.46	53.23 -159.68	
HFPO_DA-13C	332.00>286.80	----	502630	----	----	----		
HFPO_DA-13C_IS	332.00>286.80	----	502630	----	----	----		

J:\LCMS06\Data\210909_Curve\210909_Curve.DAMLP .

Comment 1 field specifies acceptance range for Ref 1 ratio.
IRr - Ion ratio outside criteria. Exceedances for results above the MDL to be "K" flagged in the analytical report.

Insight Report
Quantitation/Integration
Printed 9/9/2021 16:33:46

210909_013

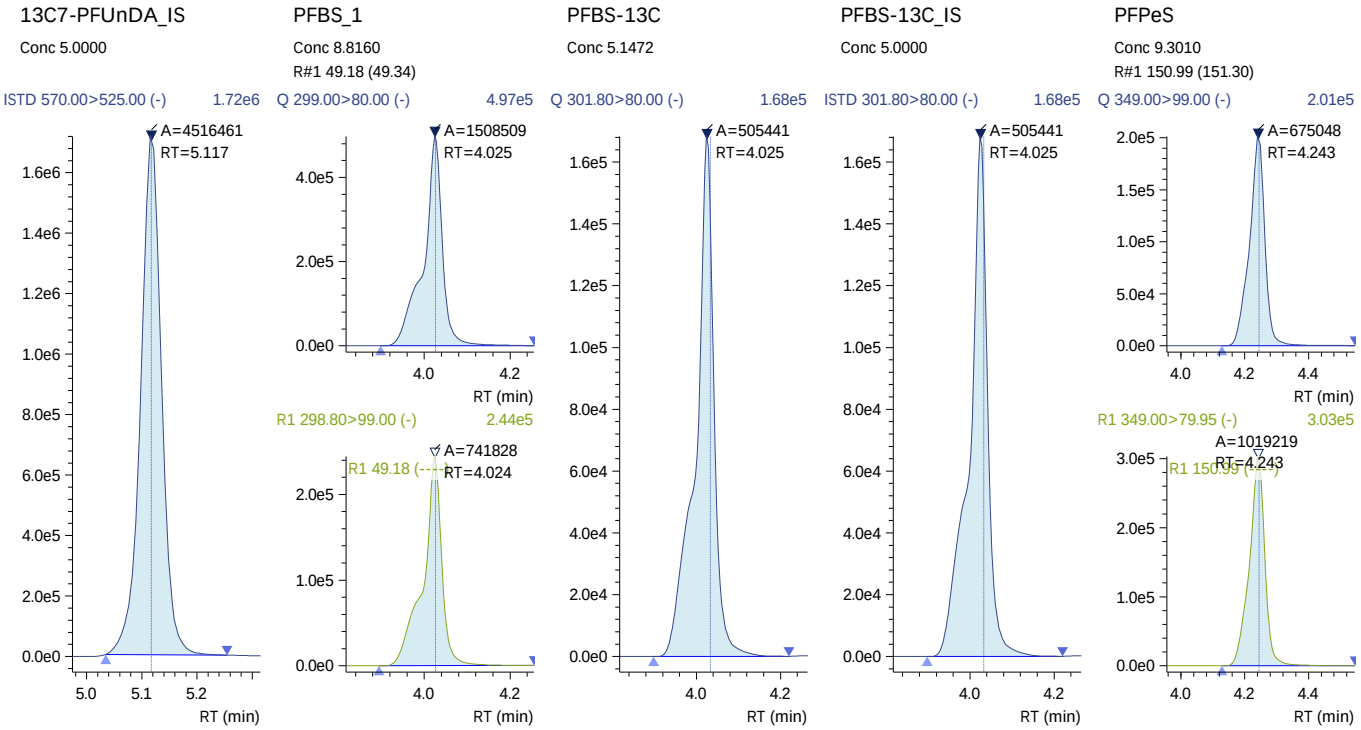
Sample ID: PFC ICAL @ 10ppb
Date Acquired: 9/9/2021 2:47:13 PM
Acquired by: System Administrator
Data File: 210909_013
Vial: 6 | Inj. Volume: 15.0000uL | Tray: 0

Name	Mode ID	Found RT	Area	ISTD Area	ISTD Name	Std. Conc.	Conc.	Unit
13C7-PFUnDA_IS	Auto	5.117	4516461	4516461	----	5.0000	5.0000	ng/mL
PFBS_1	Auto	4.025	1508509	505441	PFBS-13C_IS	8.8737	8.8160	ng/mL
PFBS-13C	Auto	4.025	505441	4516461	13C7-PFUnDA_IS	5.0000	5.1472	ng/mL
PFBS-13C_IS	Auto	4.025	505441	505441	----	5.0000	5.0000	ng/mL
PFPeS	Auto	4.243	675048	505441	PFBS-13C_IS	9.4092	9.3010	ng/mL
PFHxS_1	Auto	4.403	1019398	357197	PFHxS-18O_IS	9.1308	8.8793	ng/mL
PFHxS-18O	Auto	4.407	357197	4516461	13C7-PFUnDA_IS	5.0000	5.0999	ng/mL
PFHxS-18O_IS	Auto	4.407	357197	357197	----	5.0000	5.0000	ng/mL
PFHpS_1	Auto	4.568	1173803	357197	PFHxS-18O_IS	9.5344	9.5641	ng/mL
PFOS_1	Auto	4.737	875133	489149	PFOS-13C_IS	9.2923	9.5597	ng/mL
PFOS-13C	Auto	4.737	489149	4516461	13C7-PFUnDA_IS	5.0000	5.1106	ng/mL
PFOS-13C_IS	Auto	4.737	489149	489149	----	5.0000	5.0000	ng/mL
PFNS	Auto	4.914	631876	489149	PFOS-13C_IS	9.6158	9.5046	ng/mL
PFDS_1	Auto	5.095	1081666	489149	PFOS-13C_IS	9.6467	9.3925	ng/mL
PFBA	Auto	3.409	4276470	1835962	PFBA-13C_IS	10.0000	10.0667	ng/mL
PFBA-13C	Auto	3.408	1835962	4516461	13C7-PFUnDA_IS	5.0000	5.2115	ng/mL
PFBA-13C_IS	Auto	3.408	1835962	1835962	----	5.0000	5.0000	ng/mL
PFPeA	Auto	3.972	6276018	1047341	PFPeA-13C_IS	10.0000	9.8220	ng/mL
PFPeA-13C	Auto	3.972	1047341	4516461	13C7-PFUnDA_IS	5.0000	5.2019	ng/mL
PFPeA-13C_IS	Auto	3.972	1047341	1047341	----	5.0000	5.0000	ng/mL
PFHxA	Auto	4.227	7690657	3017134	PFHxA-13C_IS	10.0000	9.7554	ng/mL
PFHxA-13C	Auto	4.227	3017134	4516461	13C7-PFUnDA_IS	5.0000	5.2811	ng/mL
PFHxA-13C_IS	Auto	4.227	3017134	3017134	----	5.0000	5.0000	ng/mL
PFHpA	Auto	4.408	6139692	2626584	PFHpA-13C_IS	10.0000	9.6887	ng/mL
PFHpA-13C	Auto	4.407	2626584	4516461	13C7-PFUnDA_IS	5.0000	5.0695	ng/mL
PFHpA-13C_IS	Auto	4.407	2626584	2626584	----	5.0000	5.0000	ng/mL
PFOA	Auto	4.577	8923335	3564833	PFOA-13C_IS	10.0000	9.1296	ng/mL
PFOA-13C	Auto	4.577	3564833	4516461	13C7-PFUnDA_IS	5.0000	5.1466	ng/mL
PFOA-13C_IS	Auto	4.577	3564833	3564833	----	5.0000	5.0000	ng/mL
PFNA	Auto	4.751	6380881	3028474	PFNA-13C_IS	10.0000	10.1888	ng/mL
PFNA-13C	Auto	4.750	3028474	4516461	13C7-PFUnDA_IS	5.0000	5.0748	ng/mL
PFNA-13C_IS	Auto	4.750	3028474	3028474	----	5.0000	5.0000	ng/mL
PFDA	Auto	4.933	5666849	2049195	PFDA-13C_IS	10.0000	9.8095	ng/mL
PFDA-13C	Auto	4.933	2049195	4516461	13C7-PFUnDA_IS	5.0000	4.9389	ng/mL
PFDA-13C_IS	Auto	4.933	2049195	2049195	----	5.0000	5.0000	ng/mL
PFUnA	Auto	5.117	7006522	3071472	PFUnA-13C_IS	10.0000	10.3066	ng/mL
PFUnA-13C	Auto	5.118	3071472	4516461	13C7-PFUnDA_IS	5.0000	4.9096	ng/mL
PFUnA-13C_IS	Auto	5.118	3071472	3071472	----	5.0000	5.0000	ng/mL
PFDoA	Auto	5.297	6284219	3547100	PFDoA-13C_IS	10.0000	9.9475	ng/mL
PFDoA-13C	Auto	5.297	3547100	4516461	13C7-PFUnDA_IS	5.0000	5.1403	ng/mL
PFDoA-13C_IS	Auto	5.297	3547100	3547100	----	5.0000	5.0000	ng/mL
PFTrDA	Auto	5.461	7196097	3474315	PFTeDA-13C_IS	10.0000	10.1445	ng/mL
PFTeDA	Auto	5.608	7480400	3474315	PFTeDA-13C_IS	10.0000	9.7242	ng/mL
PFTeDA-13C	Auto	5.608	3474315	4516461	13C7-PFUnDA_IS	5.0000	5.0180	ng/mL
PFTeDA-13C_IS	Auto	5.608	3474315	3474315	----	5.0000	5.0000	ng/mL
FOSA	Auto	5.221	3592791	1489006	FOSA-13C_IS	10.0000	10.0610	ng/mL
FOSA-13C	Auto	5.222	1489006	4516461	13C7-PFUnDA_IS	5.0000	5.1833	ng/mL
FOSA-13C_IS	Auto	5.222	1489006	1489006	----	5.0000	5.0000	ng/mL
N-MeFOSA	Auto	5.608	1252498	332804	N-MeFOSA-d3_IS	10.0000	9.8853	ng/mL
N-MeFOSA-d3	Auto	5.605	332804	4516461	13C7-PFUnDA_IS	5.0000	5.1632	ng/mL
N-MeFOSA-d3_IS	Auto	5.605	332804	332804	----	5.0000	5.0000	ng/mL
N-EtFOSA	Auto	5.732	234156	392389	N-EtFOSA-d9_IS	10.0000	9.8458	ng/mL
N-EtFOSA-d9	Auto	5.727	392389	4516461	13C7-PFUnDA_IS	5.0000	5.2255	ng/mL
N-EtFOSA-d9_IS	Auto	5.727	392389	392389	----	5.0000	5.0000	ng/mL

210909_013 (continued)

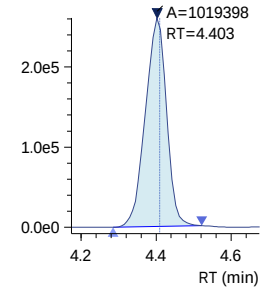
(Table continued from previous page)

Name	Mode ID	Found RT	Area	ISTD Area	ISTD Name	Std. Conc.	Conc.	Unit
N-MeFOSE	Auto	5.589	1801153	518127	N-MeFOSE-d7_IS	10.0000	9.6710	ng/mL
N-MeFOSE-d7	Auto	5.582	518127	4516461	13C7-PFUnDA_IS	5.0000	5.2203	ng/mL
N-MeFOSE-d7_IS	Auto	5.582	518127	518127	----	5.0000	5.0000	ng/mL
N-EtFOSE	Auto	5.710	1657052	492520	N-EtFOSE-d9_IS	10.0000	9.7070	ng/mL
N-EtFOSE-d9	Auto	5.700	492520	4516461	13C7-PFUnDA_IS	5.0000	5.2401	ng/mL
N-EtFOSE-d9_IS	Auto	5.700	492520	492520	----	5.0000	5.0000	ng/mL
N-MeFOSAA	Auto	5.032	1004413	603432	N-MeFOSAA-d3_IS	10.0000	9.9535	ng/mL
N-MeFOSAA-d3	Auto	5.030	603432	4516461	13C7-PFUnDA_IS	5.0000	5.2921	ng/mL
N-MeFOSAA-d3_IS	Auto	5.030	603432	603432	----	5.0000	5.0000	ng/mL
N-EtFOSAA	Auto	5.133	712485	484905	N-EtFOSAA-d5_IS	10.0000	9.6815	ng/mL
N-EtFOSAA-d5	Auto	5.129	484905	4516461	13C7-PFUnDA_IS	5.0000	5.0291	ng/mL
N-EtFOSAA-d5_IS	Auto	5.129	484905	484905	----	5.0000	5.0000	ng/mL
4_2-FTS_1	Auto	4.201	906759	567346	4_2-FTS-13C_IS	9.3722	8.8514	ng/mL
4_2-FTS-13C	Auto	4.201	567346	4516461	13C7-PFUnDA_IS	5.0000	5.3088	ng/mL
4_2-FTS-13C_IS	Auto	4.201	567346	567346	----	5.0000	5.0000	ng/mL
6_2-FTS_1	Auto	4.563	1027028	447379	6_2-FTS-13C_IS	9.5117	8.7980	ng/mL
6_2-FTS-13C	Auto	4.565	447379	4516461	13C7-PFUnDA_IS	5.0000	4.9548	ng/mL
6_2-FTS-13C_IS	Auto	4.565	447379	447379	----	5.0000	5.0000	ng/mL
8_2-FTS_1	Auto	4.931	559915	320481	8_2-FTS-13C_IS	9.6005	9.1445	ng/mL
8_2-FTS-13C	Auto	4.932	320481	4516461	13C7-PFUnDA_IS	5.0000	4.8826	ng/mL
8_2-FTS-13C_IS	Auto	4.932	320481	320481	----	5.0000	5.0000	ng/mL
10_2-FtS_1	Auto	5.304	476514	320481	8_2-FTS-13C_IS	9.6619	9.5866	ng/mL
HPFO_DA	Auto	4.294	1025084	502630	HFPO_DA-13C_IS	10.0000	10.2015	ng/mL
HFPO_DA-13C	Auto	4.294	502630	4516461	13C7-PFUnDA_IS	5.0000	5.1935	ng/mL
HFPO_DA-13C_IS	Auto	4.294	502630	502630	----	5.0000	5.0000	ng/mL

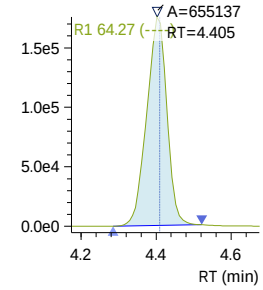


210909_013 (continued)

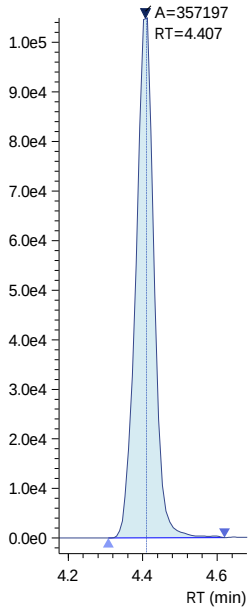
PFHxS_1
Conc 8.8793
R#1 64.27 (62.92)
Q 399.00>80.00 (-) 2.61e5



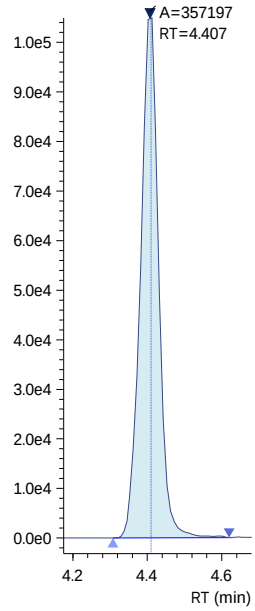
R1 399.00>99.00 (-) 1.76e5



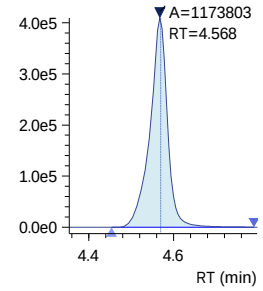
PFHxS-18O
Conc 5.0999
Q 402.70>84.05 (-) 1.05e5



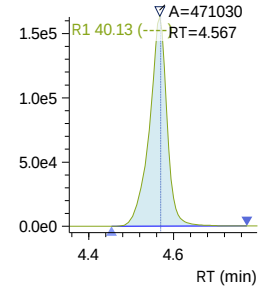
PFHxS-18O_IS
Conc 5.0000
ISTD 402.70>84.05 (-) 1.05e5



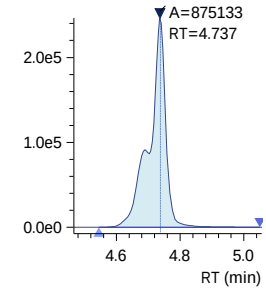
PFHpS_1
Conc 9.5641
R#1 40.13 (40.53)
Q 449.00>80.15 (-) 4.09e5



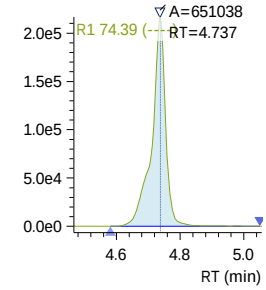
R1 449.00>99.20 (-) 1.63e5



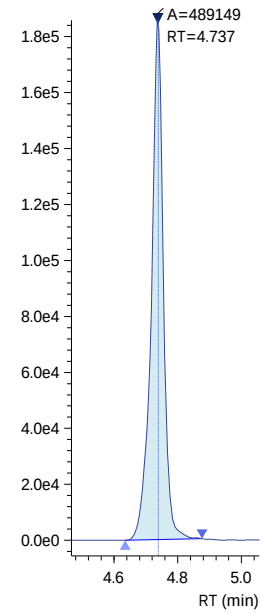
PFOS_1
Conc 9.5597
R#1 74.39 (73.81)
Q 499.00>80.00 (-) 2.47e5



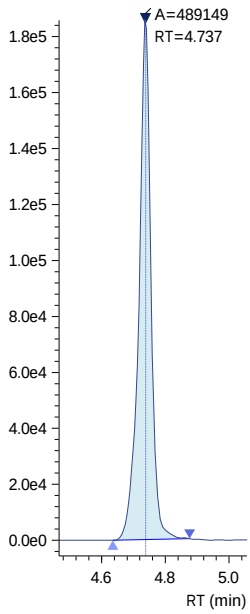
R1 499.00>99.00 (-) 2.17e5



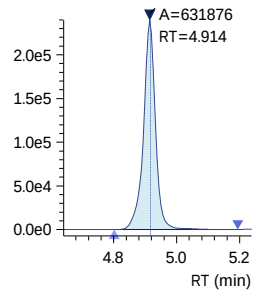
PFOS-13C
Conc 5.1106
Q 502.80>80.05 (-) 1.86e5



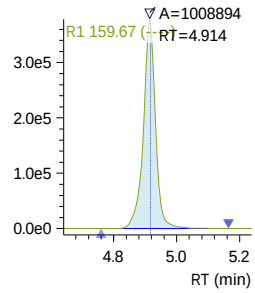
PFOS-13C_IS
Conc 5.0000
ISTD 502.80>80.05 (-) 1.86e5



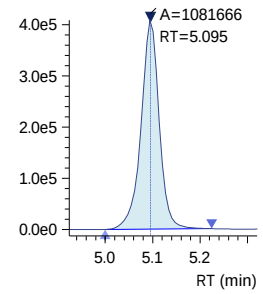
PFNS
Conc 9.5046
R#1 159.67 (160.25)
Q 549.00>99.00 (-) 2.40e5



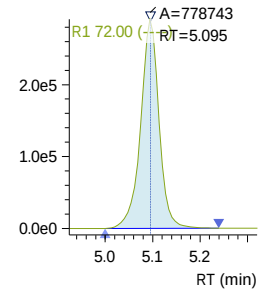
R1 549.00>79.95 (-) 3.78e5



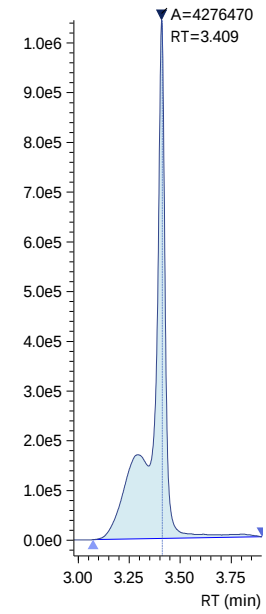
PFDS_1
Conc 9.3925
R#1 72.00 (72.12)
Q 599.00>79.90 (-) 4.09e5



R1 599.00>99.10 (-) 2.91e5

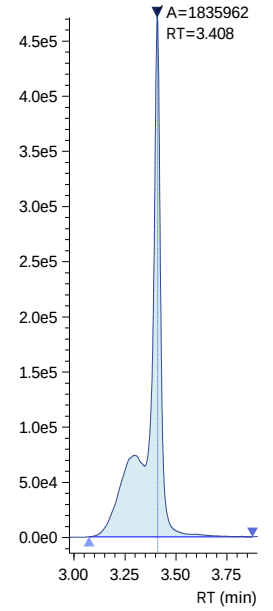


PFBA
Conc 10.0667
Q 213.00>169.10 (-) 1.05e6

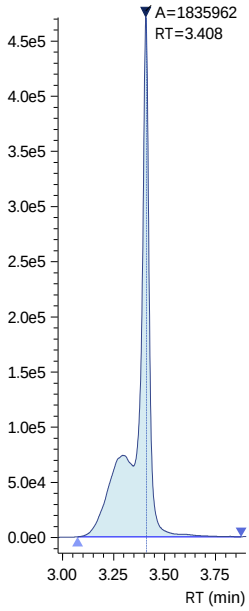


210909_013 (continued)

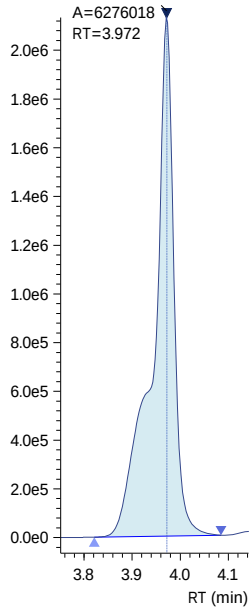
PFBA-13C
Conc 5.2115
Q 216.90>172.15 (-) 4.71e5



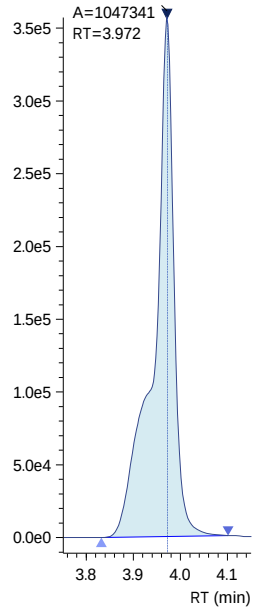
PFBA-13C_IS
Conc 5.0000
ISTD 216.90>172.15 (-) 4.71e5



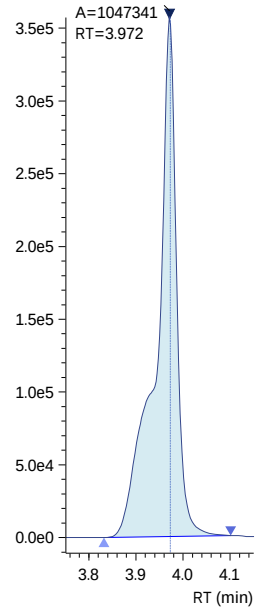
PFPeA
Conc 9.8220
Q 263.05>219.10 (-) 2.13e6



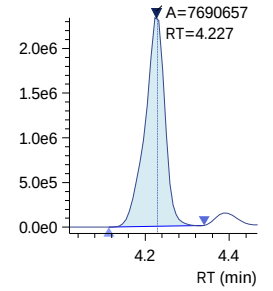
PFPeA-13C
Conc 5.2019
Q 267.90>223.00 (-) 3.57e5



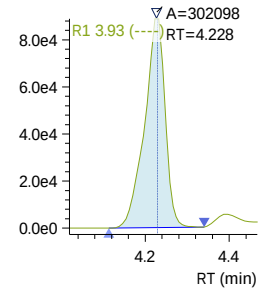
PFPeA-13C_IS
Conc 5.0000
ISTD 267.90>223.00 (-) 3.57e5



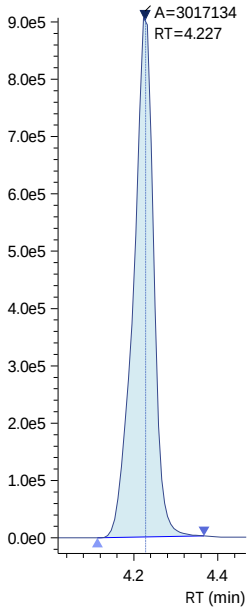
PFHxA
Conc 9.7554
R#1 3.93 (4.40)
Q 313.00>269.00 (-) 2.34e6



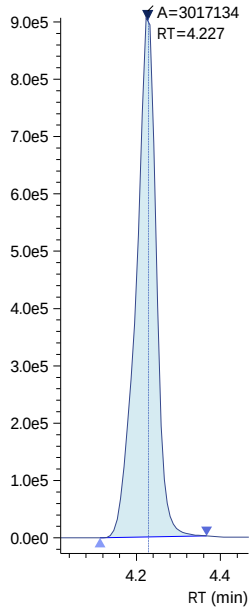
R1 313.00>119.10 (-) 8.89e4



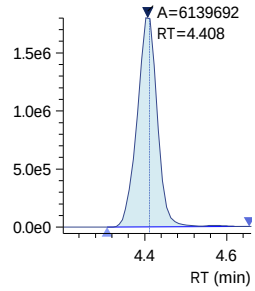
PFHxA-13C
Conc 5.2811
Q 314.90>270.10 (-) 9.07e5



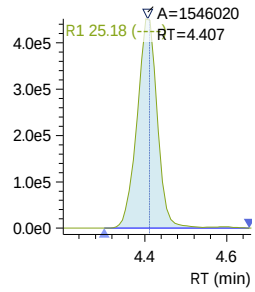
PFHxA-13C_IS
Conc 5.0000
ISTD 314.90>270.10 (-) 9.07e5



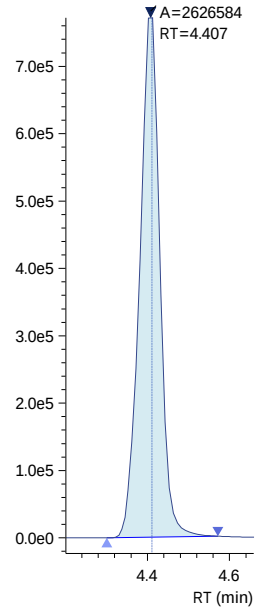
PFHpA
Conc 9.6887
R#1 25.18 (24.40)
Q 362.90>319.00 (-) 1.80e6



R1 362.90>169.00 (-) 4.52e5



PFHpA-13C
Conc 5.0695
Q 366.90>322.10 (-) 7.72e5



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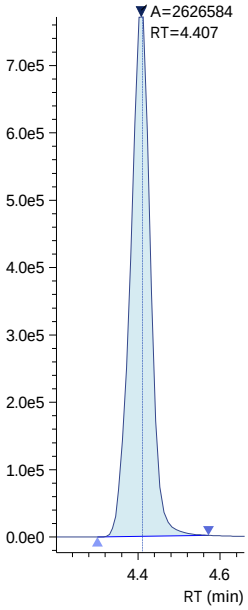
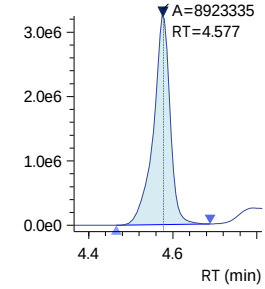
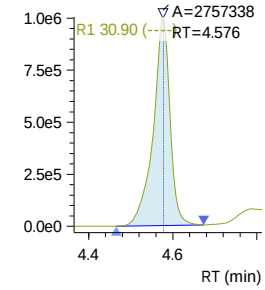
PFHpA-13C_IS
Conc 5.0000
ISTD 366.90>322.10 (-) 7.72e5



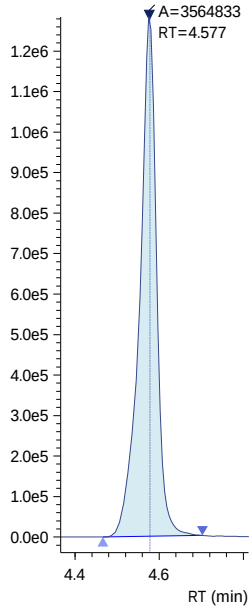
PFOA
Conc 9.1296
R#1 30.90 (31.89)
Q 413.00>369.00 (-) 3.25e6



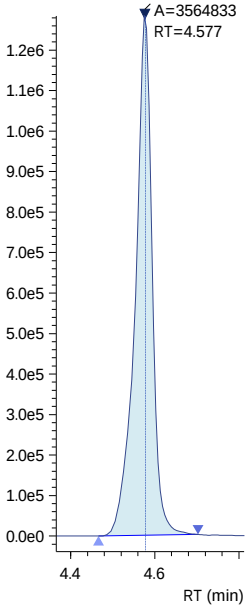
R1 413.00>169.10 (-) 1.01e6



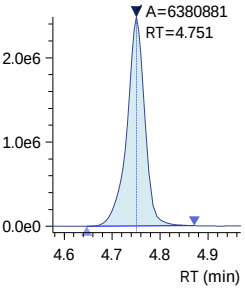
PFOA-13C
Conc 5.1466
Q 416.80>372.05 (-) 1.28e6



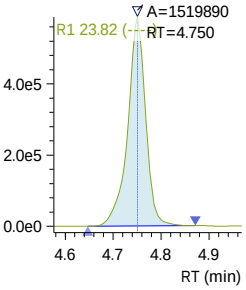
PFOA-13C_IS
Conc 5.0000
ISTD 416.80>372.05 (-) 1.28e6



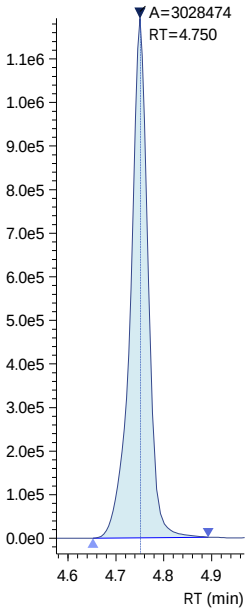
PFNA
Conc 10.1888
R#1 23.82 (23.25)
Q 463.00>418.90 (-) 2.48e6



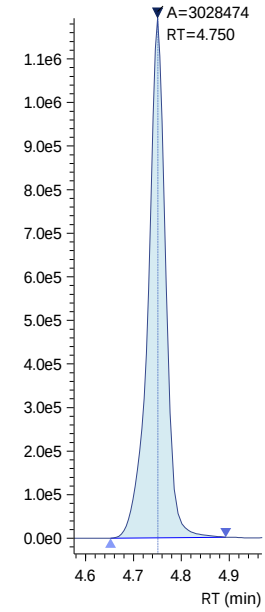
R1 463.00>219.00 (-) 5.88e5



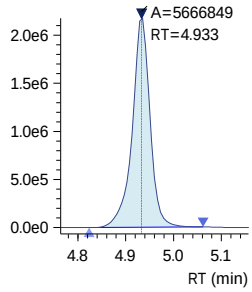
PFNA-13C
Conc 5.0748
Q 467.80>423.00 (-) 1.19e6



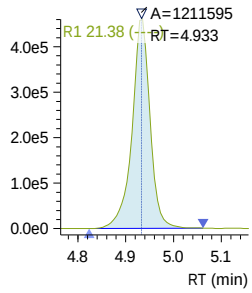
PFNA-13C_IS
Conc 5.0000
ISTD 467.80>423.00 (-) 1.19e6



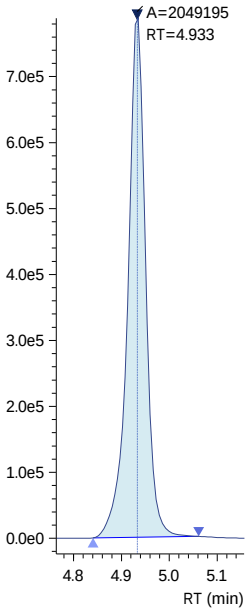
PFDA
Conc 9.8095
R#1 21.38 (20.24)
Q 513.00>468.80 (-) 2.18e6



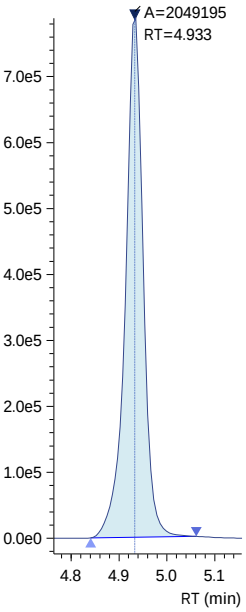
R1 513.00>219.10 (-) 4.61e5



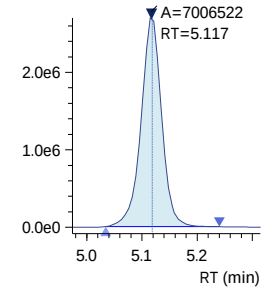
PFDA-13C
Conc 4.9389
Q 514.80>469.95 (-) 7.89e5

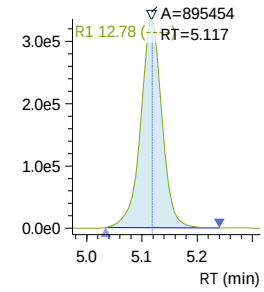


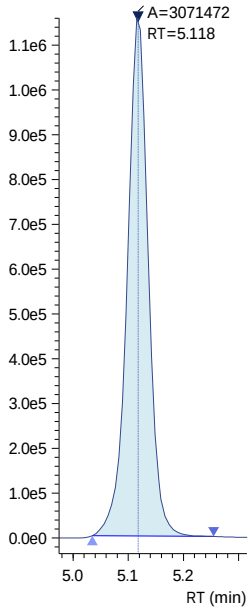
PFDA-13C_IS
Conc 5.0000
ISTD 514.80>469.95 (-) 7.89e5

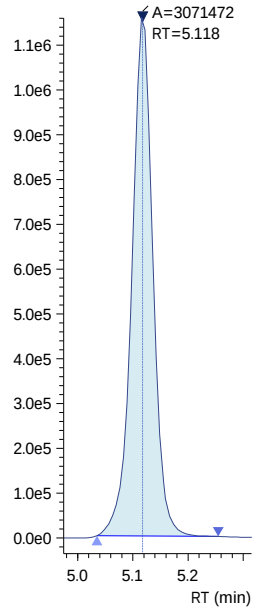


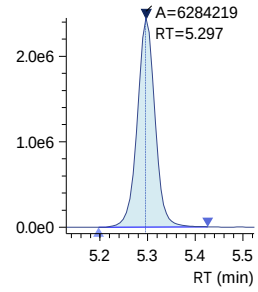
210909_013 (continued)

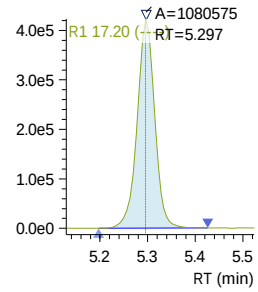
PFUnA
Conc 10.3066
R#1 12.78 (12.46)
Q 563.00>518.90 (-) 2.70e6


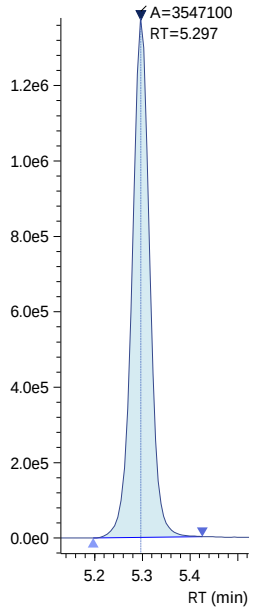
R1 563.00>219.00 (-) 3.36e5


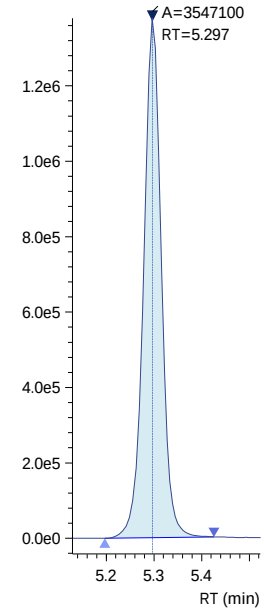
PFUnA-13C
Conc 4.9096
Q 564.80>519.95 (-) 1.16e6


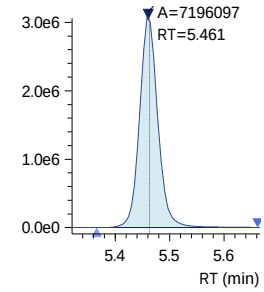
PFUnA-13C_IS
Conc 5.0000
ISTD 564.80>519.95 (-) 1.16e6


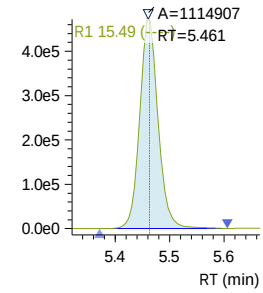
PFDoA
Conc 9.9475
R#1 17.20 (16.50)
Q 613.05>569.00 (-) 2.45e6


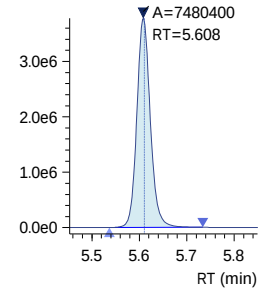
R1 613.05>169.00 (-) 4.23e5


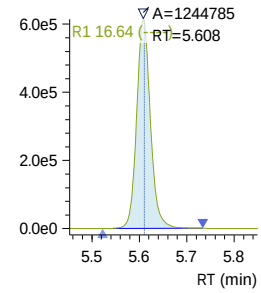
PFDoA-13C
Conc 5.1403
Q 614.80>569.95 (-) 1.38e6


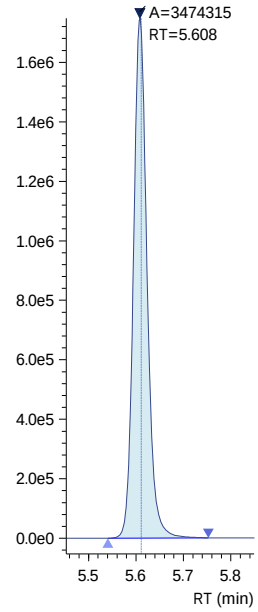
PFDoA-13C_IS
Conc 5.0000
ISTD 614.80>569.95 (-) 1.38e6


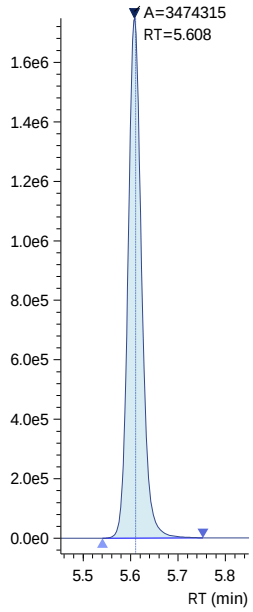
PFTrDA
Conc 10.1445
R#1 15.49 (15.29)
Q 663.00>618.90 (-) 3.06e6


R1 662.90>169.00 (-) 4.72e5


PFTeDA
Conc 9.7242
R#1 16.64 (17.47)
Q 713.00>669.00 (-) 3.78e6


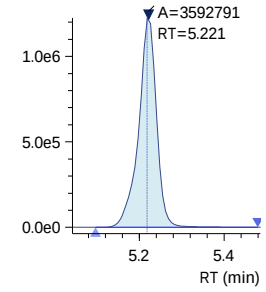
R1 713.00>169.10 (-) 6.14e5


PFTeDA-13C
Conc 5.0180
Q 714.70>669.90 (-) 1.75e6


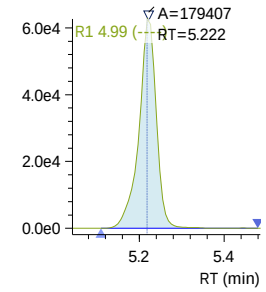
PFTeDA-13C_IS
Conc 5.0000
ISTD 714.70>669.90 (-) 1.75e6


210909_013 (continued)

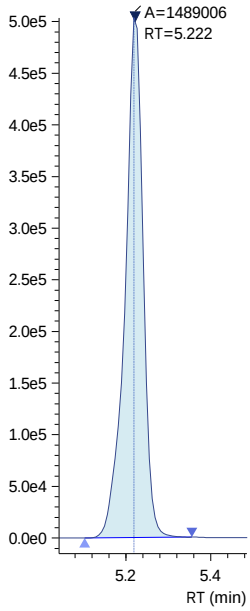
FOSA
Conc 10.0610
R#1 4.99 (5.19)
Q 498.20>78.00 (-) 1.22e6



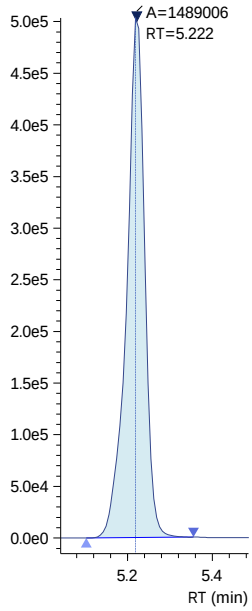
R1 498.20>64.10 (-) 6.27e4



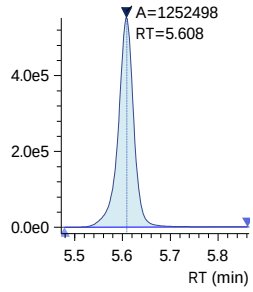
FOSA-13C
Conc 5.1833
Q 506.00>78.05 (-) 5.04e5



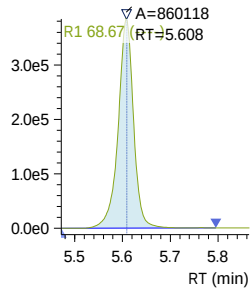
FOSA-13C_IS
Conc 5.0000
ISTD 506.00>78.05 (-) 5.04e5



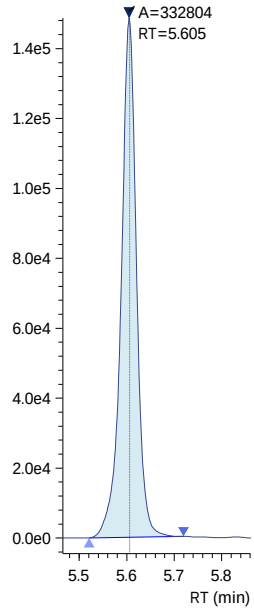
N-MeFOSA
Conc 9.8853
R#1 68.67 (69.94)
Q 512.00>169.10 (-) 5.52e5



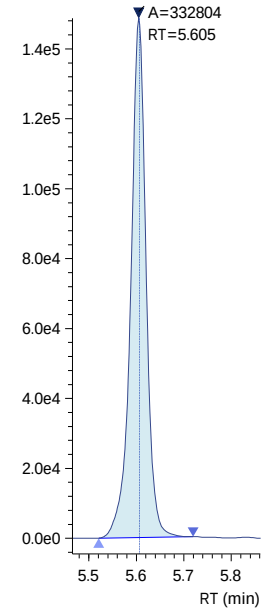
R1 512.00>219.00 (-) 3.84e5



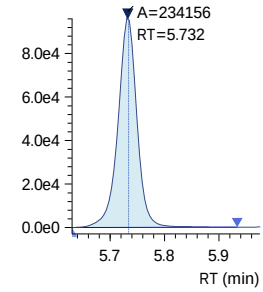
N-MeFOSA-d3
Conc 5.1632
Q 514.90>168.90 (-) 1.49e5



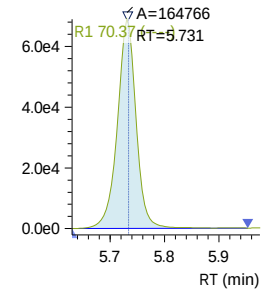
N-MeFOSA-d3_IS
Conc 5.0000
ISTD 514.90>168.90 (-) 1.49e5



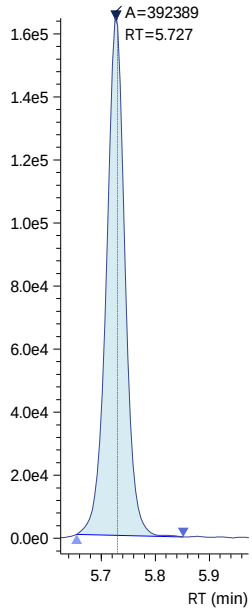
N-MeFOSA
Conc 9.8458
R#1 70.37 (66.52)
Q 526.90>169.10 (-) 9.62e4



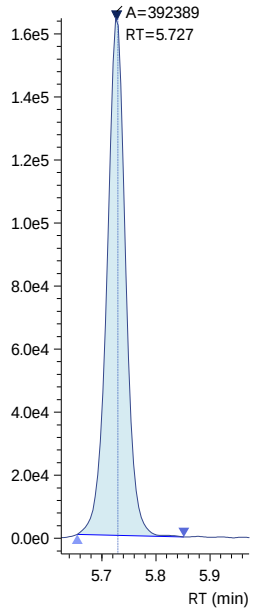
R1 526.90>219.00 (-) 6.90e4



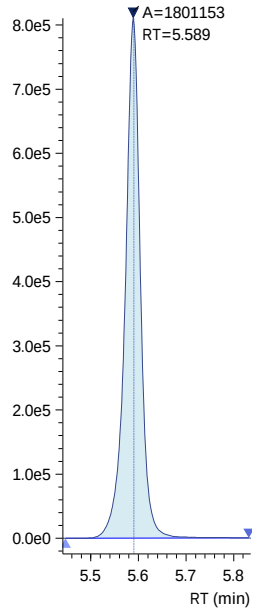
N-EtFOSA
Conc 5.2255
Q 530.90>169.15 (-) 1.65e5



N-EtFOSA-d9
Conc 5.0000
ISTD 530.90>169.15 (-) 1.65e5



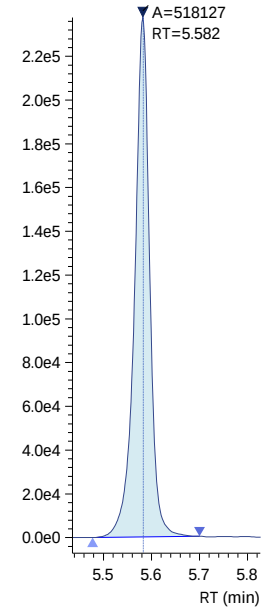
N-EtFOSA-d9_IS
Conc 9.6710
Q 616.00>59.00 (-) 8.11e5



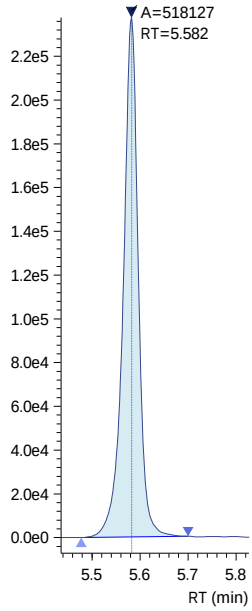
N-MeFOSE

210909_013 (continued)

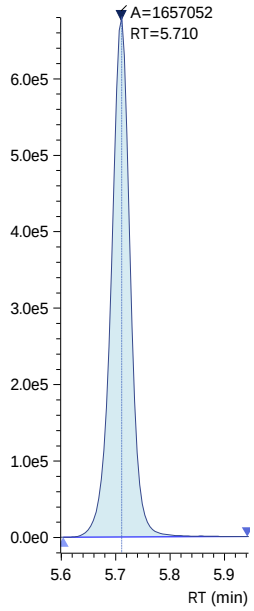
N-MeFOSE-d7
Conc 5.2203
Q 622.70>59.10 (-) 2.38e5



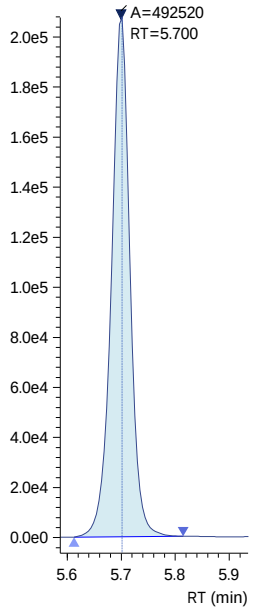
N-MeFOSE-d7_IS
Conc 5.0000
ISTD 622.70>59.10 (-) 2.38e5



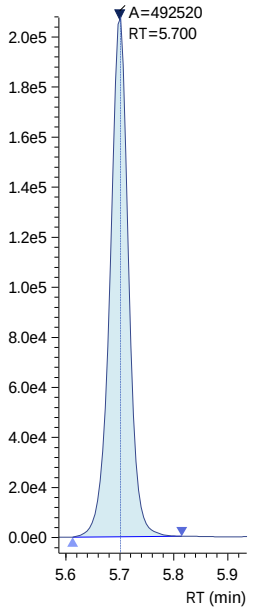
N-EtFOSE
Conc 9.7070
Q 630.00>58.90 (-) 6.80e5



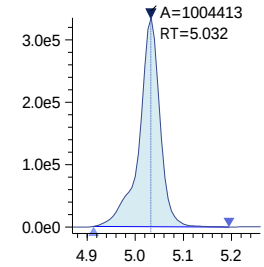
N-EtFOSE-d9
Conc 5.2401
Q 638.70>59.10 (-) 2.08e5



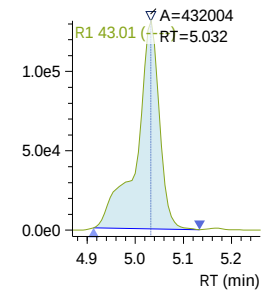
N-EtFOSE-d9_IS
Conc 5.0000
ISTD 638.70>59.10 (-) 2.08e5



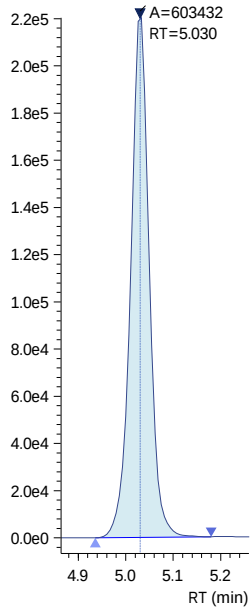
N-MeFOSAA
Conc 9.9535
R#1 43.01 (39.56)
Q 570.20>419.00 (-) 3.35e5



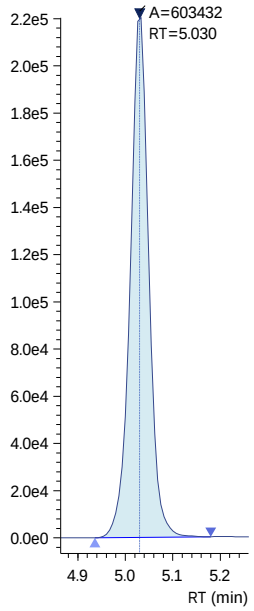
R1 570.20>512.00 (-) 1.32e5



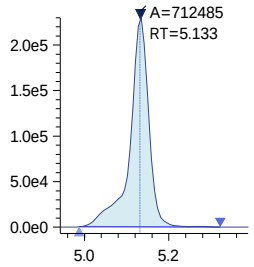
N-MeFOSAA-d3
Conc 5.2921
Q 572.80>419.05 (-) 2.20e5



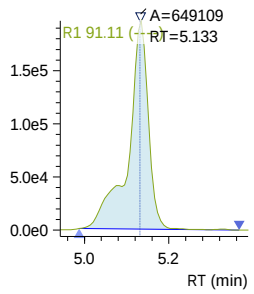
N-MeFOSAA-d3_IS
Conc 5.0000
ISTD 572.80>419.05 (-) 2.20e5



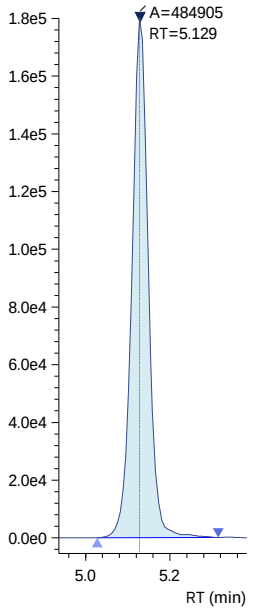
N-EtFOSAA
Conc 9.6815
R#1 91.11 (84.54)
Q 584.20>418.95 (-) 2.30e5



R1 584.20>526.10 (-) 1.97e5

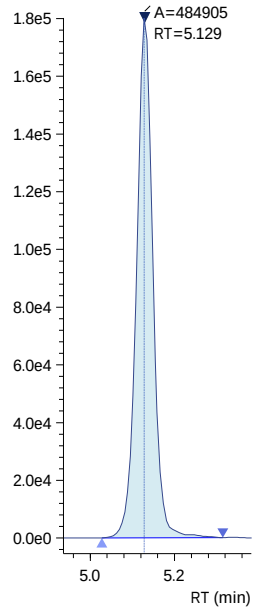


N-EtFOSAA-d5
Conc 5.0291

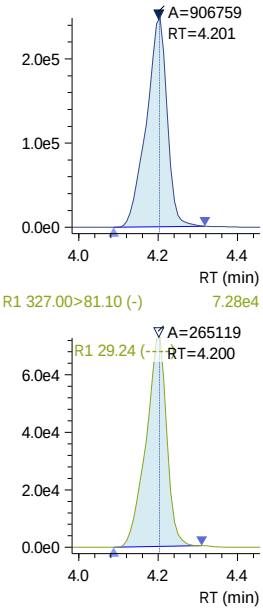


210909_013 (continued)

N-EtFOSAA-d5_IS
Conc 5.0000
ISTD 588.80>419.00 (-) 1.80e5

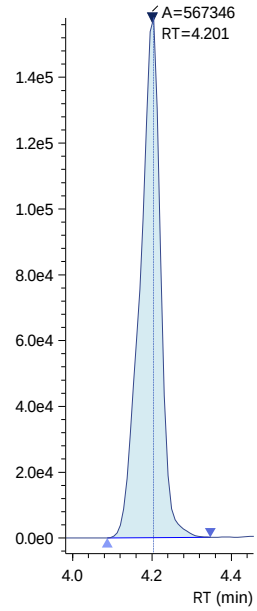


4_2-FTS_1
Conc 8.8514
R#1 29.24 (34.12)
Q 327.00>307.05 (-) 2.49e5

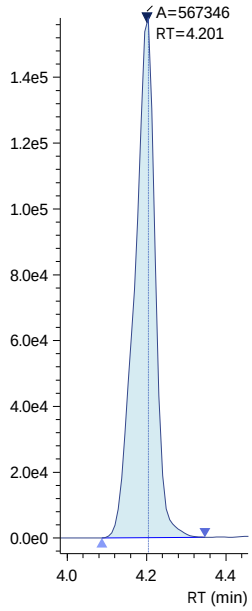


R1 327.00>81.10 (-) 7.28e4

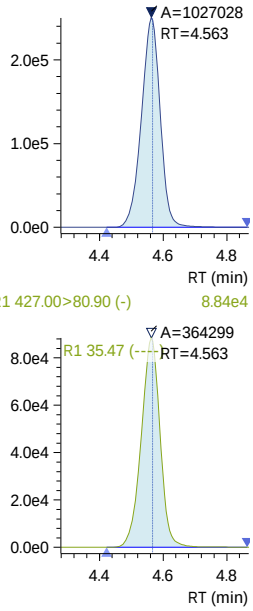
4_2-FTS-13C
Conc 5.3088
Q 328.80>309.05 (-) 1.58e5



4_2-FTS-13C_IS
Conc 5.0000
ISTD 328.80>309.05 (-) 1.58e5

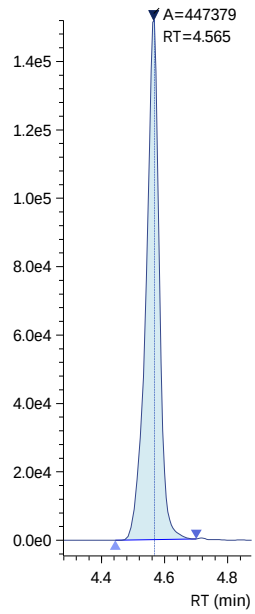


6_2-FTS_1
Conc 8.7980
R#1 35.47 (37.36)
Q 427.00>407.00 (-) 2.50e5

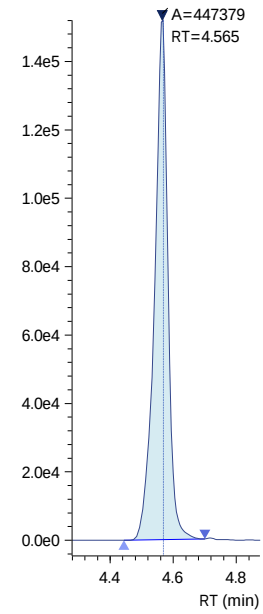


R1 427.00>80.90 (-) 8.84e4

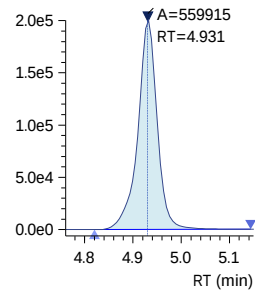
6_2-FTS-13C
Conc 4.9548
Q 428.90>409.00 (-) 1.52e5



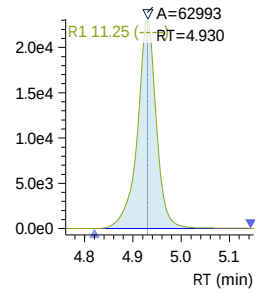
6_2-FTS-13C_IS
Conc 5.0000
ISTD 428.90>409.00 (-) 1.52e5



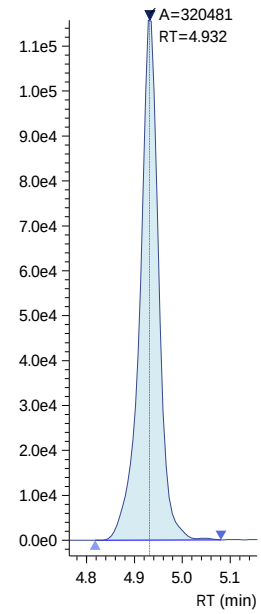
8_2-FTS_1
Conc 9.1445
R#1 11.25 (10.63)
Q 527.10>506.90 (-) 2.00e5



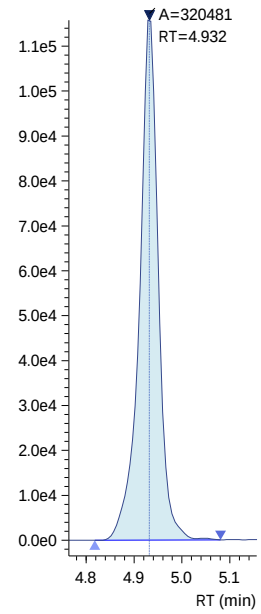
R1 527.20>487.00 (-) 2.31e4



8_2-FTS-13C
Conc 4.8826
Q 528.80>509.00 (-) 1.16e5

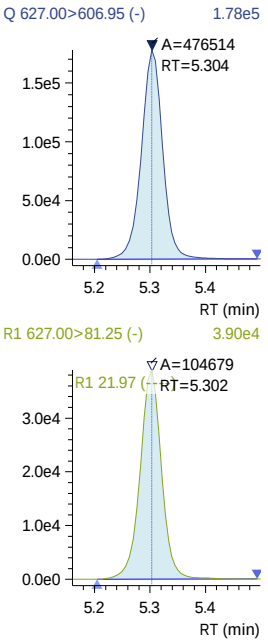


8_2-FTS-13C_IS
Conc 5.0000
ISTD 528.80>509.00 (-) 1.16e5

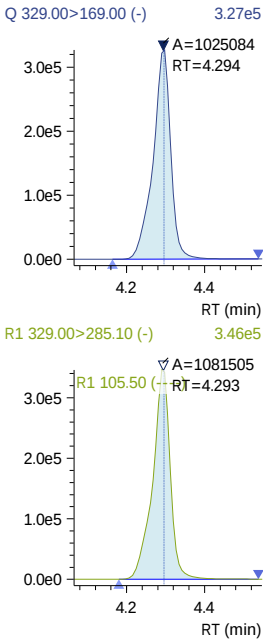


210909_013 (continued)

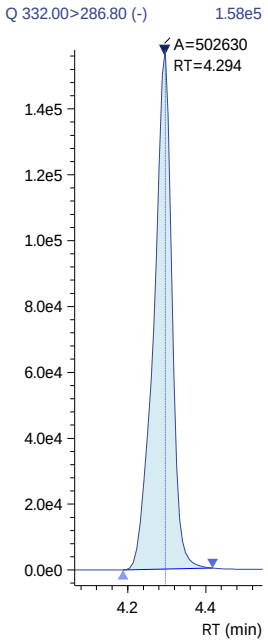
10_2-FtS_1
Conc 9.5866
R#1 21.97 (21.61)



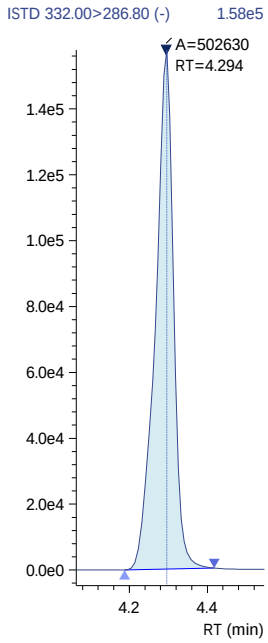
HPFO_DA
Conc 10.2015
R#1 105.50 (106.46)



HFPO_DA-13C
Conc 5.1935



HFPO_DA-13C_IS
Conc 5.0000



Insight Report
Retention Time/Signal:Noise Ratio Confirmation
Printed 9/9/2021 16:28:51

210909_014

Sample ID: CCB
Date Acquired: 9/9/2021 2:57:40 PM
Acquired by: System Administrator
Data File: 210909_014
Vial: 9 | Inj. Volume: 15.0000uL | Tray: 1

Name	m/z	Ref 1 m/z	Found RT	RT Diff	ISTD RT Diff	S/N	Ref 1 S/N	Flag ID
13C7-PFUnDA_IS	570.00>525.00	----	5.120	0.003	----	1035	----	
PFBS_1	299.00>80.00	298.80>99.00	4.028	0.001	0.000	21	8	IRr
PFBS-13C	301.80>80.00	----	4.028	-0.005	-1.092	(INF)	----	
PFBS-13C_IS	301.80>80.00	----	4.028	-0.005	----	(INF)	----	
PFPeS	349.00>99.00	349.00>79.95	----	----	----	----	----	
PFHxS_1	399.00>80.00	399.00>99.00	4.414	0.004	0.006	11	(INF)	IRr
PFHxS-18O	402.70>84.05	----	4.408	-0.002	-0.712	(INF)	----	
PFHxS-18O_IS	402.70>84.05	----	4.408	-0.002	----	(INF)	----	
PFHpS_1	449.00>80.15	449.00>99.20	4.569	-0.001	0.161	5	3	IRr, SN
PFOS_1	499.00>80.00	499.00>99.00	4.733	-0.006	-0.008	(INF)	6	
PFOS-13C	502.80>80.05	----	4.740	0.001	-0.380	(INF)	----	
PFOS-13C_IS	502.80>80.05	----	4.740	0.001	----	(INF)	----	
PFNS	549.00>99.00	549.00>79.95	----	----	----	----	----	
PFDS_1	599.00>79.90	599.00>99.10	----	----	----	----	----	
PFBA	213.00>169.10	----	----	----	----	----	----	
PFBA-13C	216.90>172.15	----	3.403	-0.007	-1.717	937	----	
PFBA-13C_IS	216.90>172.15	----	3.403	-0.007	----	937	----	
PFPeA	263.05>219.10	----	----	----	----	----	----	
PFPeA-13C	267.90>223.00	----	3.973	0.000	-1.147	13793	----	
PFPeA-13C_IS	267.90>223.00	----	3.973	0.000	----	13793	----	
PFHxA	313.00>269.00	313.00>119.10	----	----	----	----	----	
PFHxA-13C	314.90>270.10	----	4.228	-0.001	-0.892	9313	----	
PFHxA-13C_IS	314.90>270.10	----	4.228	-0.001	----	9313	----	
PFHpA	362.90>319.00	362.90>169.00	----	----	----	----	----	
PFHpA-13C	366.90>322.10	----	4.408	-0.003	-0.712	16343	----	
PFHpA-13C_IS	366.90>322.10	----	4.408	-0.003	----	16343	----	
PFOA	413.00>369.00	413.00>169.10	4.569	-0.009	-0.010	16	10	
PFOA-13C	416.80>372.05	----	4.579	0.001	-0.541	57620	----	
PFOA-13C_IS	416.80>372.05	----	4.579	0.001	----	57620	----	
PFNA	463.00>418.90	463.00>219.00	4.740	-0.011	-0.012	(INF)	(INF)	
PFNA-13C	467.80>423.00	----	4.752	0.001	-0.368	76030	----	
PFNA-13C_IS	467.80>423.00	----	4.752	0.001	----	76030	----	
PFDA	513.00>468.80	513.00>219.10	4.931	-0.002	-0.004	(INF)	(INF)	
PFDA-13C	514.80>469.95	----	4.935	0.002	-0.185	57528	----	
PFDA-13C_IS	514.80>469.95	----	4.935	0.002	----	57528	----	
PFUnA	563.00>518.90	563.00>219.00	----	----	----	----	----	
PFUnA-13C	564.80>519.95	----	5.120	0.002	0.000	883	----	
PFUnA-13C_IS	564.80>519.95	----	5.120	0.002	----	883	----	
PFDoA	613.05>569.00	613.05>169.00	----	----	----	----	----	
PFDoA-13C	614.80>569.95	----	5.300	0.003	0.180	(INF)	----	
PFDoA-13C_IS	614.80>569.95	----	5.300	0.003	----	(INF)	----	
PFTrDA	663.00>618.90	662.90>169.00	5.461	-0.002	-0.150	58	(INF)	IRr
PFTeDA	713.00>669.00	713.00>169.10	5.610	-0.001	-0.001	46	(INF)	
PFTeDA-13C	714.70>669.90	----	5.611	0.000	0.491	129691	----	
PFTeDA-13C_IS	714.70>669.90	----	5.611	0.000	----	152525	----	
FOSA	498.20>78.00	498.20>64.10	5.229	0.011	0.004	13	(INF)	
FOSA-13C	506.00>78.05	----	5.225	0.006	0.105	3914	----	
FOSA-13C_IS	506.00>78.05	----	5.225	0.006	----	3914	----	
N-MeFOSA	512.00>169.10	512.00>219.00	5.610	0.001	0.001	10	18	IRr
N-MeFOSA-d3	514.90>168.90	----	5.609	0.003	0.489	814	----	
N-MeFOSA-d3_IS	514.90>168.90	----	5.609	0.003	----	814	----	

J:\LCMS06\Data\210909_Curve\210909_Curve.DAMLP .

SN - Software-calculated S/N ratio outside criteria due to non-target peaks or drift in noise calculation window. Analyst review of noise levels (excluding non-target peaks) in chromatogram indicates S/N ratio meets criteria.

210909_014 (continued)

(Table continued from previous page)

Name	m/z	Ref 1 m/z	Found RT	RT Diff	ISTD RT Diff	S/N	Ref 1 S/N	Flag ID
N-EtFOSA	526.90>169.10	526.90>219.00	----	----	----	----	----	
N-EtFOSA-d9	530.90>169.15	----	5.731	0.001	0.611	5267	----	
N-EtFOSA-d9_IS	530.90>169.15	----	5.731	0.001	----	5267	----	
N-MeFOSE	616.00>59.00	----	5.597	0.007	0.011	6	----	SN
N-MeFOSE-d7	622.70>59.10	----	5.586	0.003	0.466	2870	----	
N-MeFOSE-d7_IS	622.70>59.10	----	5.586	0.003	----	2870	----	
N-EtFOSE	630.00>58.90	----	----	----	----	----	----	
N-EtFOSE-d9	638.70>59.10	----	5.704	0.003	0.584	1693	----	
N-EtFOSE-d9_IS	638.70>59.10	----	5.704	0.003	----	1693	----	
N-MeFOSAA	570.20>419.00	570.20>512.00	5.036	0.003	0.003	14	(INF)	IRr
N-MeFOSAA-d3	572.80>419.05	----	5.033	0.003	-0.087	(INF)	----	
N-MeFOSAA-d3_IS	572.80>419.05	----	5.033	0.003	----	(INF)	----	
N-EtFOSAA	584.20>418.95	584.20>526.10	5.150	0.018	0.019	(INF)	(INF)	
N-EtFOSAA-d5	588.80>419.00	----	5.131	0.003	0.011	12988	----	
N-EtFOSAA-d5_IS	588.80>419.00	----	5.131	0.003	----	12988	----	
4_2-FTS_1	327.00>307.05	327.00>81.10	4.220	0.017	0.017	(INF)	(INF)	IRr
4_2-FTS-13C	328.80>309.05	----	4.203	-0.001	-0.917	(INF)	----	
4_2-FTS-13C_IS	328.80>309.05	----	4.203	-0.001	----	(INF)	----	
6_2-FTS_1	427.00>407.00	427.00>80.90	4.573	0.006	0.005	(INF)	2	
6_2-FTS-13C	428.90>409.00	----	4.568	0.000	-0.552	(INF)	----	
6_2-FTS-13C_IS	428.90>409.00	----	4.568	0.000	----	(INF)	----	
8_2-FTS_1	527.10>506.90	527.20>487.00	4.944	0.014	0.011	(INF)	(INF)	IRr
8_2-FTS-13C	528.80>509.00	----	4.933	0.001	-0.187	(INF)	----	
8_2-FTS-13C_IS	528.80>509.00	----	4.933	0.001	----	(INF)	----	
10_2-FtS_1	627.00>606.95	627.00>81.25	5.313	0.010	0.380	(INF)	3	IRr
HPFO_DA	329.00>169.00	329.00>285.10	----	----	----	----	----	
HFPO_DA-13C	332.00>286.80	----	4.296	0.000	-0.824	13846	----	
HFPO_DA-13C_IS	332.00>286.80	----	4.296	0.000	----	13846	----	

Flag ID key: IRr: Ion Ratio (Relative), SN: S/N

SN - Software-calculated S/N ratio outside criteria due to non-target peaks or drift in noise calculation window. Analyst review of noise levels (excluding non-target peaks) in chromatogram indicates S/N ratio meets criteria.

Insight Report
Ion Ratio Confirmation
Printed 9/9/2021 16:29:39

210909_014

Sample ID: CCB
Date Acquired: 9/9/2021 2:57:40 PM
Acquired by: System Administrator
Data File: 210909_014
Vial: 9 | Inj. Volume: 15.0000uL | Tray: 1

Name	m/z	Ref 1 m/z	Area	Ref 1 Measured	Ref 1 Actual Ratio	Ref 1 Set Ratio	Comment 1	Flag ID
13C7-PFUnDA_IS	570.00>525.00	----	4644369	----	----	----		
PFBS_1	299.00>80.00	298.80>99.00	353	299	84.70	49.34	24.67-74.01	IRr
PFBS-13C	301.80>80.00	----	498168	----	----	----	0-0	
PFBS-13C_IS	301.80>80.00	----	498168	----	----	----	0-0	
PFPeS	349.00>99.00	349.00>79.95	----	0	0.00	151.30	75.65 -226.95	
PFHxS_1	399.00>80.00	399.00>99.00	1201	1155	96.21	62.92	31.46-94.38	IRr
PFHxS-18O	402.70>84.05	----	348826	----	----	----	0-0	
PFHxS-18O_IS	402.70>84.05	----	348826	----	----	----	0-0	
PFHpS_1	449.00>80.15	449.00>99.20	429	52	12.12	40.53	20.26-60.79	IRr, SN
PFOS_1	499.00>80.00	499.00>99.00	304	292	96.05	73.81	36.91 -110.72	
PFOS-13C	502.80>80.05	----	496266	----	----	----	0-0	
PFOS-13C_IS	502.80>80.05	----	496266	----	----	----	0-0	
PFNS	549.00>99.00	549.00>79.95	----	0	0.00	160.25	80.13 -240.38	
PFDS_1	599.00>79.90	599.00>99.10	----	0	0.00	72.12	36.06 -108.19	
PFBA	213.00>169.10	----	----	----	----	----		
PFBA-13C	216.90>172.15	----	1721258	----	----	----		
PFBA-13C_IS	216.90>172.15	----	1721258	----	----	----		
PFPeA	263.05>219.10	----	----	----	----	----		
PFPeA-13C	267.90>223.00	----	1027995	----	----	----	0-0	
PFPeA-13C_IS	267.90>223.00	----	1027995	----	----	----	0-0	
PFHxA	313.00>269.00	313.00>119.10	----	0	0.00	4.40	2.2-6.61	
PFHxA-13C	314.90>270.10	----	2748103	----	----	----	0-0	
PFHxA-13C_IS	314.90>270.10	----	2748103	----	----	----	0-0	
PFHpA	362.90>319.00	362.90>169.00	----	0	0.00	24.40	12.2-36.6	
PFHpA-13C	366.90>322.10	----	2569034	----	----	----	0-0	
PFHpA-13C_IS	366.90>322.10	----	2569034	----	----	----	0-0	
PFOA	413.00>369.00	413.00>169.10	27354	8033	29.37	31.89	15.94-47.83	
PFOA-13C	416.80>372.05	----	3637436	----	----	----	0-0	
PFOA-13C_IS	416.80>372.05	----	3637436	----	----	----	0-0	
PFNA	463.00>418.90	463.00>219.00	1635	280	17.10	23.25	11.63-34.88	
PFNA-13C	467.80>423.00	----	3192996	----	----	----	0-0	
PFNA-13C_IS	467.80>423.00	----	3192996	----	----	----	0-0	
PFDA	513.00>468.80	513.00>219.10	2753	726	26.37	20.24	10.12-30.36	
PFDA-13C	514.80>469.95	----	2132980	----	----	----	0-0	
PFDA-13C_IS	514.80>469.95	----	2132980	----	----	----	0-0	
PFUnA	563.00>518.90	563.00>219.00	----	0	0.00	12.46	6.23-18.69	
PFUnA-13C	564.80>519.95	----	3321413	----	----	----	0-0	
PFUnA-13C_IS	564.80>519.95	----	3321413	----	----	----	0-0	
PFDoA	613.05>569.00	613.05>169.00	----	0	0.00	16.50	8.25-24.76	
PFDoA-13C	614.80>569.95	----	3655565	----	----	----	0-0	
PFDoA-13C_IS	614.80>569.95	----	3655565	----	----	----	0-0	
PFTrDA	663.00>618.90	662.90>169.00	3834	1155	30.13	15.29	7.65-22.94	IRr
PFTeDA	713.00>669.00	713.00>169.10	8263	1140	13.79	17.47	8.73-26.2	
PFTeDA-13C	714.70>669.90	----	3526135	----	----	----	0-0	
PFTeDA-13C_IS	714.70>669.90	----	3526135	----	----	----	0-0	
FOSA	498.20>78.00	498.20>64.10	2040	81	3.97	5.19	2.6-7.79	
FOSA-13C	506.00>78.05	----	1449603	----	----	----	0-0	

J:\LCMS06\Data\210909_Curve\210909_Curve.DAMLP .

Comment 1 field specifies acceptance range for Ref 1 ratio.
IRr - Ion ratio outside criteria. Exceedances for results above the MDL to be "K" flagged in the analytical report.

Insight Report
Ion Ratio Confirmation
Printed 9/9/2021 16:29:39

210909_014 (continued)

(Table continued from previous page)

Name	m/z	Ref 1 m/z	Area	Ref 1 Measured	Ref 1 Actual Ratio	Ref 1 Set Ratio	Comment 1	Flag ID
FOSA-13C_IS	506.00>78.05	----	1449603	----	----	----	0-0	
N-MeFOSA	512.00>169.10	512.00>219.00	1912	579	30.28	69.94	34.97 -104.91	IRr
N-MeFOSA-d3	514.90>168.90	----	331152	----	----	----	0-0	
N-MeFOSA-d3_IS	514.90>168.90	----	331152	----	----	----	0-0	
N-EtFOSA	526.90>169.10	526.90>219.00	----	0	0.00	66.52	33.26-99.77	
N-EtFOSA-d9	530.90>169.15	----	368500	----	----	----	0-0	
N-EtFOSA-d9_IS	530.90>169.15	----	368500	----	----	----	0-0	
N-MeFOSE	616.00>59.00	----	1365	----	----	----		SN
N-MeFOSE-d7	622.70>59.10	----	508271	----	----	----		
N-MeFOSE-d7_IS	622.70>59.10	----	508271	----	----	----		
N-EtFOSE	630.00>58.90	----	----	----	----	----		
N-EtFOSE-d9	638.70>59.10	----	472501	----	----	----	0-0	
N-EtFOSE-d9_IS	638.70>59.10	----	472501	----	----	----	0-0	
N-MeFOSAA	570.20>419.00	570.20>512.00	1639	205	12.51	39.56	19.78-59.34	IRr
N-MeFOSAA-d3	572.80>419.05	----	543655	----	----	----	0-0	
N-MeFOSAA-d3_IS	572.80>419.05	----	543655	----	----	----	0-0	
N-EtFOSAA	584.20>418.95	584.20>526.10	1543	786	50.94	84.54	42.27 -126.81	
N-EtFOSAA-d5	588.80>419.00	----	516496	----	----	----	0-0	
N-EtFOSAA-d5_IS	588.80>419.00	----	516496	----	----	----	0-0	
4_2-FTS_1	327.00>307.05	327.00>81.10	185	1437	776.91	34.12	17.06-51.19	IRr
4_2-FTS-13C	328.80>309.05	----	557794	----	----	----	0-0	
4_2-FTS-13C_IS	328.80>309.05	----	557794	----	----	----	0-0	
6_2-FTS_1	427.00>407.00	427.00>80.90	276	94	34.06	37.36	18.68-56.04	
6_2-FTS-13C	428.90>409.00	----	477460	----	----	----	0-0	
6_2-FTS-13C_IS	428.90>409.00	----	477460	----	----	----	0-0	
8_2-FTS_1	527.10>506.90	527.20>487.00	79	13	16.46	10.63	5.32-15.95	IRr
8_2-FTS-13C	528.80>509.00	----	358334	----	----	----	0-0	
8_2-FTS-13C_IS	528.80>509.00	----	358334	----	----	----	0-0	
10_2-FtS_1	627.00>606.95	627.00>81.25	37	25	67.57	21.61	10.8-32.41	IRr
HPFO_DA	329.00>169.00	329.00>285.10	----	0	0.00	106.46	53.23 -159.68	
HFPO_DA-13C	332.00>286.80	----	493656	----	----	----		
HFPO_DA-13C_IS	332.00>286.80	----	493656	----	----	----		

Flag ID key: IRr: Ion Ratio (Relative), SN: S/N

Comment 1 field specifies acceptance range for Ref 1 ratio.
IRr - Ion ratio outside criteria. Exceedances for results above the MDL to be "K" flagged in the analytical report.

Insight Report
Quantitation/Integration
Printed 9/9/2021 16:33:46

210909_014

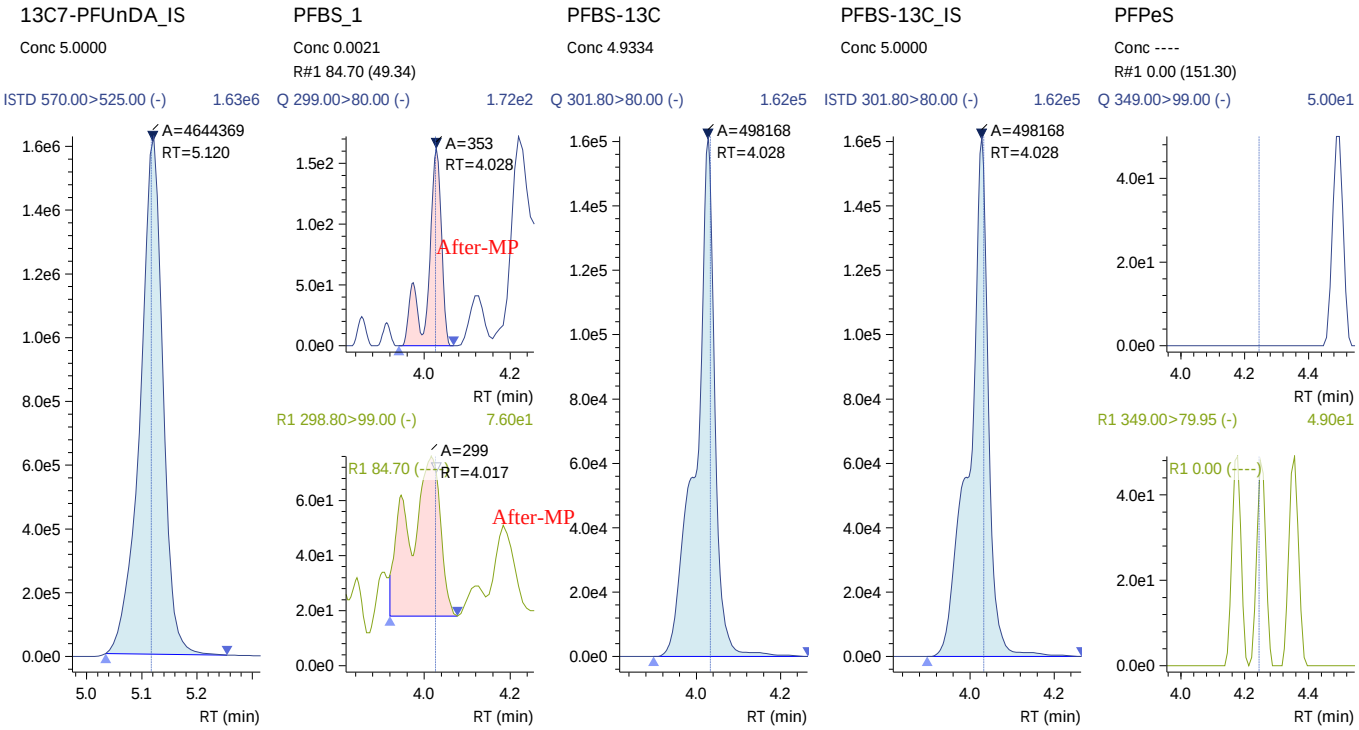
Sample ID: CCB
Date Acquired: 9/9/2021 2:57:40 PM
Acquired by: System Administrator
Data File: 210909_014
Vial: 9 | Inj. Volume: 15.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	ISTD Name	Std. Conc.	Conc.	Unit
13C7-PFUnDA_IS	Auto	5.120	4644369	4644369	----	----	5.0000	ng/mL
PFBS_1	M	4.028	353	498168	PFBS-13C_IS	----	0.0021	ng/mL
PFBS-13C	Auto	4.028	498168	4644369	13C7-PFUnDA_IS	----	4.9334	ng/mL
PFBS-13C_IS	Auto	4.028	498168	498168	----	----	5.0000	ng/mL
PFPeS	ND(W/B)	----	----	498168	PFBS-13C_IS	----	----	ng/mL
PFHxS_1	MI R1	4.414	1201	348826	PFHxS-18O_IS	----	-0.0107	ng/mL
PFHxS-18O	Auto	4.408	348826	4644369	13C7-PFUnDA_IS	----	4.8432	ng/mL
PFHxS-18O_IS	Auto	4.408	348826	348826	----	----	5.0000	ng/mL
PFHpS_1	M	4.569	429	348826	PFHxS-18O_IS	----	0.0036	ng/mL
PFOS_1	MI R1	4.733	304	496266	PFOS-13C_IS	----	0.0033	ng/mL
PFOS-13C	Auto	4.740	496266	4644369	13C7-PFUnDA_IS	----	5.0422	ng/mL
PFOS-13C_IS	Auto	4.740	496266	496266	----	----	5.0000	ng/mL
PFNS	ND(W/B)	----	----	496266	PFOS-13C_IS	----	----	ng/mL
PFDS_1	ND(W/B)	----	----	496266	PFOS-13C_IS	----	----	ng/mL
PFBA	ND(W/B)	----	----	1721258	PFBA-13C_IS	----	----	ng/mL
PFBA-13C	Auto	3.403	1721258	4644369	13C7-PFUnDA_IS	----	4.7513	ng/mL
PFBA-13C_IS	Auto	3.403	1721258	1721258	----	----	5.0000	ng/mL
PFPeA	ND(W/B)	----	----	1027995	PFPeA-13C_IS	----	----	ng/mL
PFPeA-13C	Auto	3.973	1027995	4644369	13C7-PFUnDA_IS	----	4.9652	ng/mL
PFPeA-13C_IS	Auto	3.973	1027995	1027995	----	----	5.0000	ng/mL
PFHxA	ND(W/B)	----	----	2748103	PFHxA-13C_IS	----	----	ng/mL
PFHxA-13C	Auto	4.228	2748103	4644369	13C7-PFUnDA_IS	----	4.6777	ng/mL
PFHxA-13C_IS	Auto	4.228	2748103	2748103	----	----	5.0000	ng/mL
PFHpA	ND(W/B)	----	----	2569034	PFHpA-13C_IS	----	----	ng/mL
PFHpA-13C	Auto	4.408	2569034	4644369	13C7-PFUnDA_IS	----	4.8219	ng/mL
PFHpA-13C_IS	Auto	4.408	2569034	2569034	----	----	5.0000	ng/mL
PFOA	MI R1	4.569	27354	3637436	PFOA-13C_IS	----	0.0274	ng/mL
PFOA-13C	Auto	4.579	3637436	4644369	13C7-PFUnDA_IS	----	5.1068	ng/mL
PFOA-13C_IS	Auto	4.579	3637436	3637436	----	----	5.0000	ng/mL
PFNA	M	4.740	1635	3192996	PFNA-13C_IS	----	0.0025	ng/mL
PFNA-13C	Auto	4.752	3192996	4644369	13C7-PFUnDA_IS	----	5.2031	ng/mL
PFNA-13C_IS	Auto	4.752	3192996	3192996	----	----	5.0000	ng/mL
PFDA	Auto	4.931	2753	2132980	PFDA-13C_IS	----	0.0046	ng/mL
PFDA-13C	Auto	4.935	2132980	4644369	13C7-PFUnDA_IS	----	4.9993	ng/mL
PFDA-13C_IS	Auto	4.935	2132980	2132980	----	----	5.0000	ng/mL
PFUnA	ND(W/B)	----	----	3321413	PFUnA-13C_IS	----	----	ng/mL
PFUnA-13C	Auto	5.120	3321413	4644369	13C7-PFUnDA_IS	----	5.1629	ng/mL
PFUnA-13C_IS	Auto	5.120	3321413	3321413	----	----	5.0000	ng/mL
PFDoA	ND(W/B)	----	----	3655565	PFDoA-13C_IS	----	----	ng/mL
PFDoA-13C	Auto	5.300	3655565	4644369	13C7-PFUnDA_IS	----	5.1516	ng/mL
PFDoA-13C_IS	Auto	5.300	3655565	3655565	----	----	5.0000	ng/mL
PFTrDA	M	5.461	3834	3526135	PFTeDA-13C_IS	----	0.0053	ng/mL
PFTeDA	M	5.610	8263	3526135	PFTeDA-13C_IS	----	0.0106	ng/mL
PFTeDA-13C	Auto	5.611	3526135	4644369	13C7-PFUnDA_IS	----	4.9526	ng/mL
PFTeDA-13C_IS	Auto	5.611	3526135	3526135	----	----	5.0000	ng/mL
FOSA	Auto	5.229	2040	1449603	FOSA-13C_IS	----	0.0059	ng/mL
FOSA-13C	Auto	5.225	1449603	4644369	13C7-PFUnDA_IS	----	4.9071	ng/mL
FOSA-13C_IS	Auto	5.225	1449603	1449603	----	----	5.0000	ng/mL
N-MeFOSA	M	5.610	1912	331152	N-MeFOSA-d3_IS	----	0.0152	ng/mL
N-MeFOSA-d3	Auto	5.609	331152	4644369	13C7-PFUnDA_IS	----	4.9961	ng/mL
N-MeFOSA-d3_IS	Auto	5.609	331152	331152	----	----	5.0000	ng/mL
N-EtFOSA	ND(W/B)	----	----	368500	N-EtFOSA-d9_IS	----	----	ng/mL
N-EtFOSA-d9	Auto	5.731	368500	4644369	13C7-PFUnDA_IS	----	4.7722	ng/mL
N-EtFOSA-d9_IS	Auto	5.731	368500	368500	----	----	5.0000	ng/mL

210909_014 (continued)

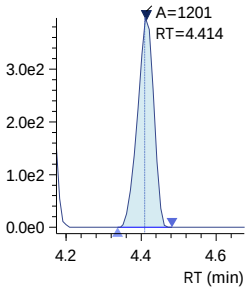
(Table continued from previous page)

Name	Mode ID	Found RT	Area	ISTD Area	ISTD Name	Std. Conc.	Conc.	Unit
N-MeFOSE	Auto	5.597	1365	508271	N-MeFOSE-d7_IS	----	0.0075	ng/mL
N-MeFOSE-d7	Auto	5.586	508271	4644369	13C7-PFUnDA_IS	----	4.9799	ng/mL
N-MeFOSE-d7_IS	Auto	5.586	508271	508271	----	----	5.0000	ng/mL
N-EtFOSE	ND(W/B)	----	----	472501	N-EtFOSE-d9_IS	----	----	ng/mL
N-EtFOSE-d9	Auto	5.704	472501	4644369	13C7-PFUnDA_IS	----	4.8886	ng/mL
N-EtFOSE-d9_IS	Auto	5.704	472501	472501	----	----	5.0000	ng/mL
N-MeFOSAA	Auto	5.036	1639	543655	N-MeFOSAA-d3_IS	----	0.0276	ng/mL
N-MeFOSAA-d3	Auto	5.033	543655	4644369	13C7-PFUnDA_IS	----	4.6365	ng/mL
N-MeFOSAA-d3_IS	Auto	5.033	543655	543655	----	----	5.0000	ng/mL
N-EtFOSAA	MI R1	5.150	1543	516496	N-EtFOSAA-d5_IS	----	0.0455	ng/mL
N-EtFOSAA-d5	Auto	5.131	516496	4644369	13C7-PFUnDA_IS	----	5.2092	ng/mL
N-EtFOSAA-d5_IS	Auto	5.131	516496	516496	----	----	5.0000	ng/mL
4_2-FTS_1	MI R1	4.220	185	557794	4_2-FTS-13C_IS	----	0.0018	ng/mL
4_2-FTS-13C	Auto	4.203	557794	4644369	13C7-PFUnDA_IS	----	5.0757	ng/mL
4_2-FTS-13C_IS	Auto	4.203	557794	557794	----	----	5.0000	ng/mL
6_2-FTS_1	MI R1	4.573	276	477460	6_2-FTS-13C_IS	----	0.0022	ng/mL
6_2-FTS-13C	Auto	4.568	477460	4644369	13C7-PFUnDA_IS	----	5.1423	ng/mL
6_2-FTS-13C_IS	Auto	4.568	477460	477460	----	----	5.0000	ng/mL
8_2-FTS_1	Auto	4.944	79	358334	8_2-FTS-13C_IS	----	0.0012	ng/mL
8_2-FTS-13C	Auto	4.933	358334	4644369	13C7-PFUnDA_IS	----	5.3089	ng/mL
8_2-FTS-13C_IS	Auto	4.933	358334	358334	----	----	5.0000	ng/mL
10_2-FtS_1	MI R1	5.313	37	358334	8_2-FTS-13C_IS	----	0.0007	ng/mL
HPFO_DA	ND(W/B)	----	----	493656	HFPO_DA-13C_IS	----	----	ng/mL
HFPO_DA-13C	Auto	4.296	493656	4644369	13C7-PFUnDA_IS	----	4.9603	ng/mL
HFPO_DA-13C_IS	Auto	4.296	493656	493656	----	----	5.0000	ng/mL

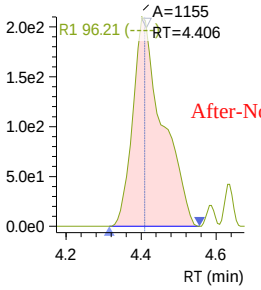


210909_014 (continued)

PFHxS_1
Conc -0.0107
R#1 96.21 (62.92)
Q 399.00>80.00 (-) 3.97e2

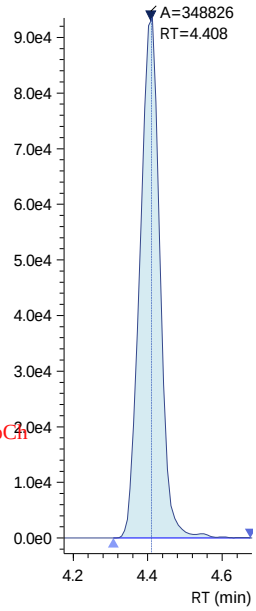


R1 399.00>99.00 (-) 2.10e2

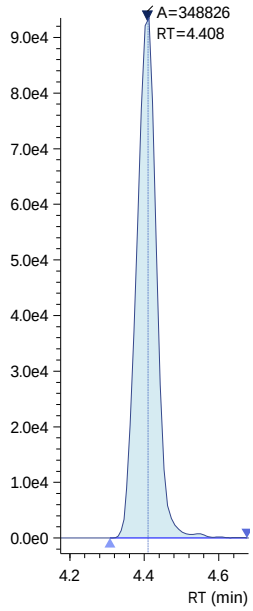


After-NoCh

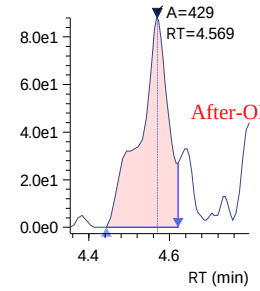
PFHxS-18O
Conc 4.8432
Q 402.70>84.05 (-) 9.35e4



PFHxS-18O_IS
Conc 5.0000
ISTD 402.70>84.05 (-) 9.35e4

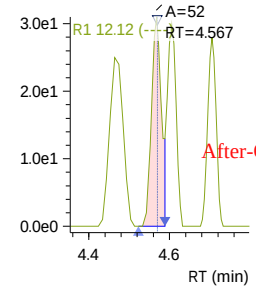


PFHpS_1
Conc 0.0036
R#1 12.12 (40.53)
Q 449.00>80.15 (-) 8.80e1



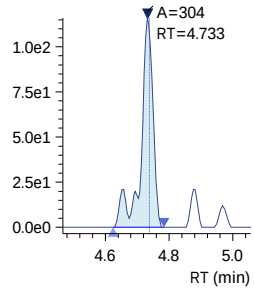
After-OI

R1 449.00>99.20 (-) 3.10e1

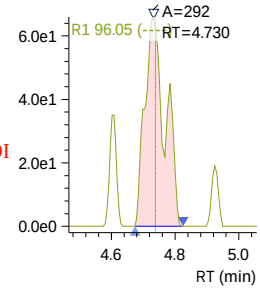


After-OI

PFOS_1
Conc 0.0033
R#1 96.05 (73.81)
Q 499.00>80.00 (-) 1.16e2

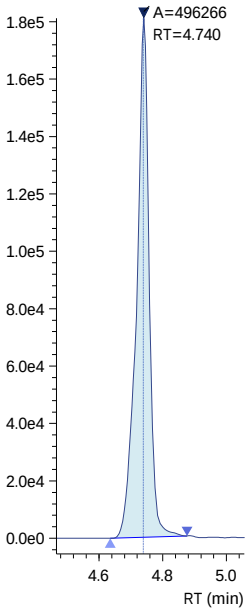


R1 499.00>99.00 (-) 6.60e1

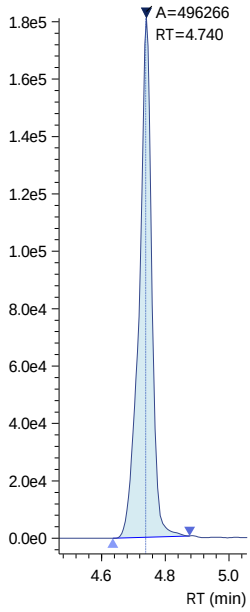


After-NoCh

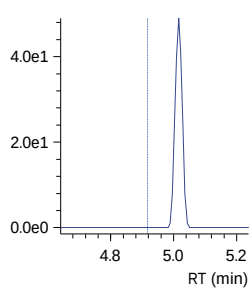
PFOS-13C
Conc 5.0422
Q 502.80>80.05 (-) 1.81e5



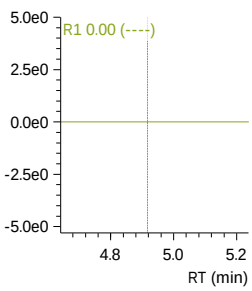
PFOS-13C_IS
Conc 5.0000
ISTD 502.80>80.05 (-) 1.81e5



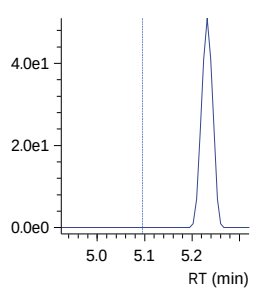
PFNS
Conc ----
R#1 0.00 (160.25)
Q 549.00>99.00 (-) 4.90e1



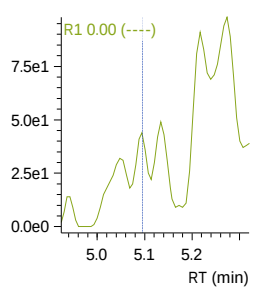
R1 549.00>79.95 (-) 0.00e0



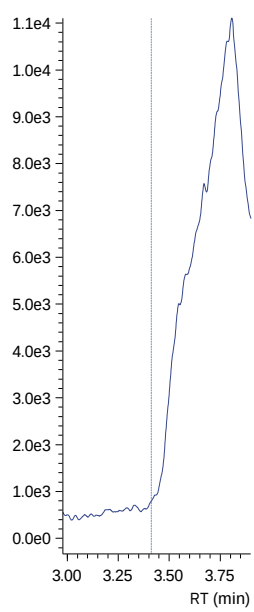
PFDS_1
Conc ----
R#1 0.00 (72.12)
Q 599.00>79.90 (-) 5.10e1



R1 599.00>99.10 (-) 9.80e1

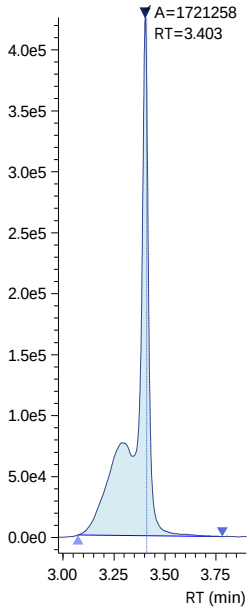


PFBA
Conc ----
Q 213.00>169.10 (-) 1.11e4

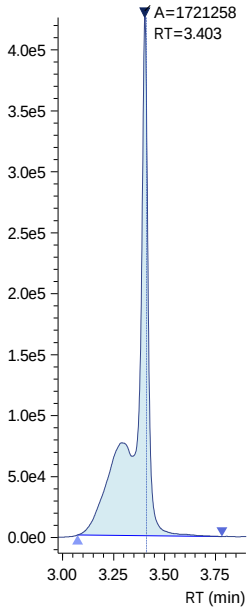


210909_014 (continued)

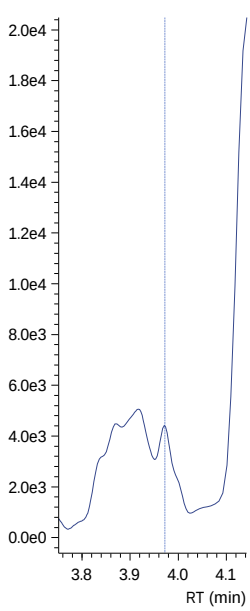
PFBA-13C
Conc 4.7513
Q 216.90>172.15 (-) 4.27e5



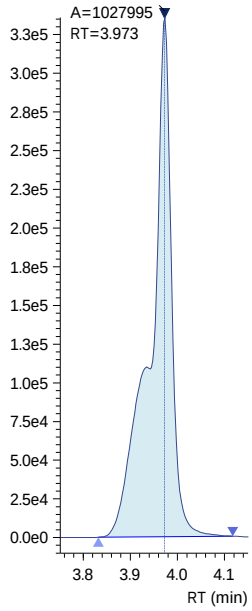
PFBA-13C_IS
Conc 5.0000
ISTD 216.90>172.15 (-) 4.27e5



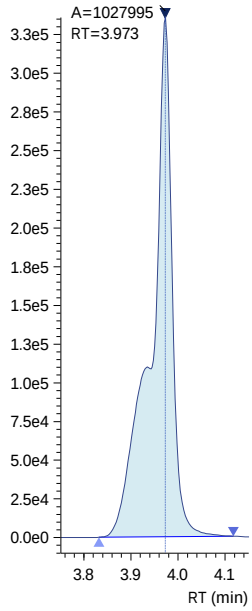
PFPeA
Conc ----
Q 263.05>219.10 (-) 2.05e4



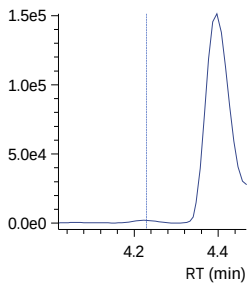
PFPeA-13C
Conc 4.9652
Q 267.90>223.00 (-) 3.36e5



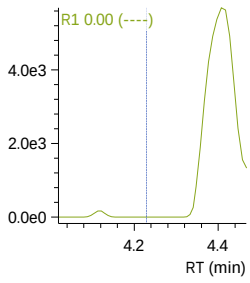
PFPeA-13C_IS
Conc 5.0000
ISTD 267.90>223.00 (-) 3.36e5



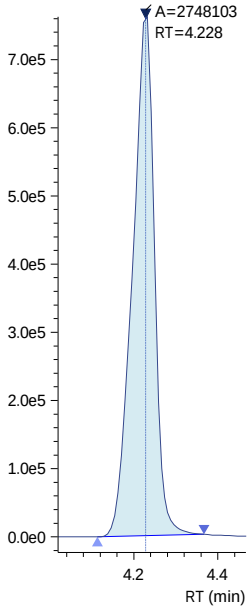
PFHxA
Conc ----
R#1 0.00 (4.40)
Q 313.00>269.00 (-) 1.51e5



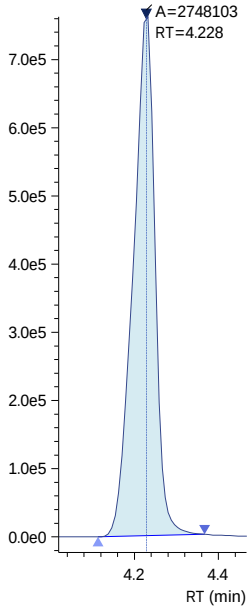
R1 313.00>119.10 (-) 5.69e3



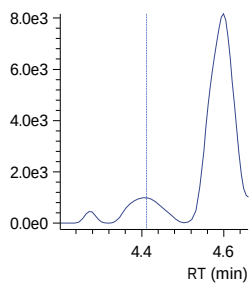
PFHxA-13C
Conc 4.6777
Q 314.90>270.10 (-) 7.63e5



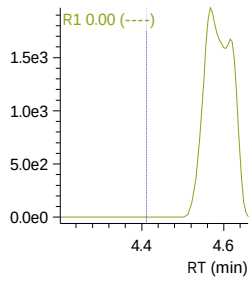
PFHxA-13C_IS
Conc 5.0000
ISTD 314.90>270.10 (-) 7.63e5



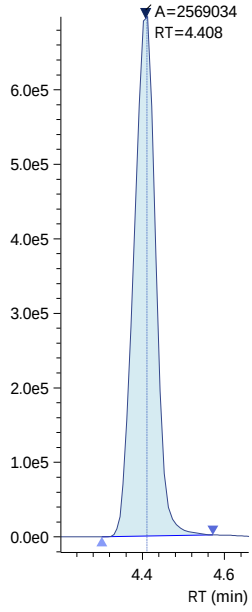
PFHpA
Conc ----
R#1 0.00 (24.40)
Q 362.90>319.00 (-) 8.17e3



R1 362.90>169.00 (-) 1.97e3

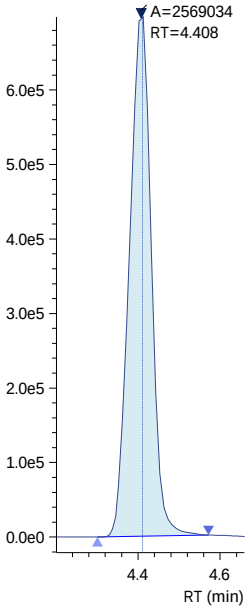


PFHpA-13C
Conc 4.8219
Q 366.90>322.10 (-) 6.98e5

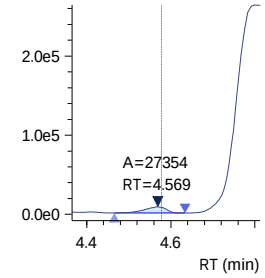


210909_014 (continued)

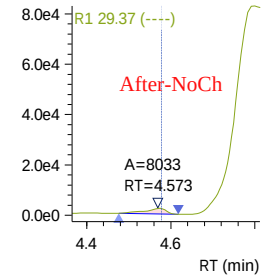
PFHpA-13C_IS
Conc 5.0000
ISTD 366.90>322.10 (-) 6.98e5



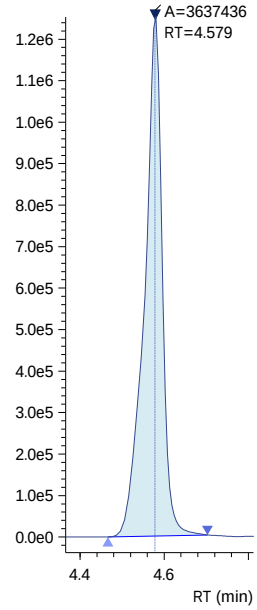
PFOA
Conc 0.0274
R#1 29.37 (31.89)
Q 413.00>369.00 (-) 2.65e5



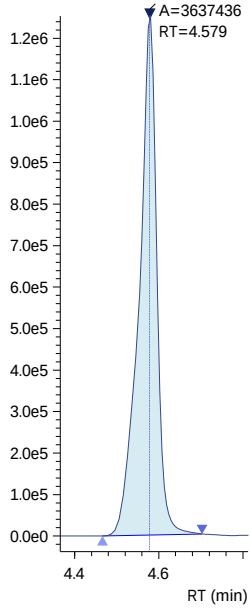
R1 413.00>169.10 (-) 8.31e4



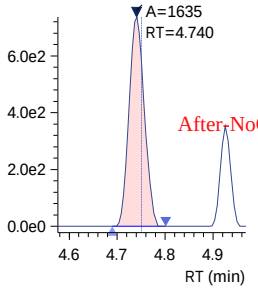
PFOA-13C
Conc 5.1068
Q 416.80>372.05 (-) 1.25e6



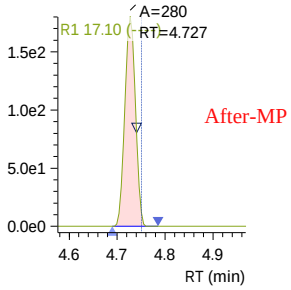
PFOA-13C_IS
Conc 5.0000
ISTD 416.80>372.05 (-) 1.25e6



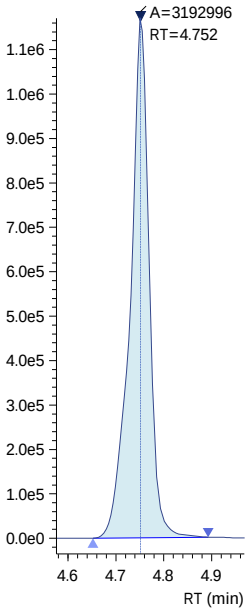
PFNA
Conc 0.0025
R#1 17.10 (23.25)
Q 463.00>418.90 (-) 7.37e2



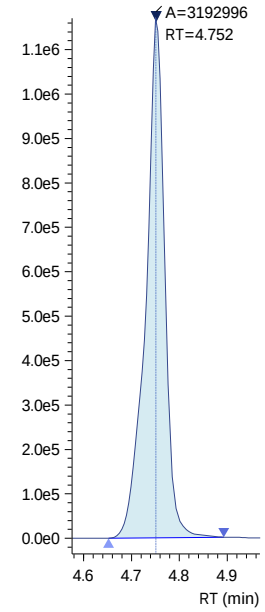
R1 463.00>219.00 (-) 1.80e2



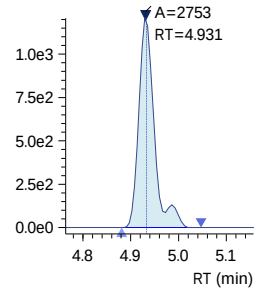
PFNA-13C
Conc 5.2031
Q 467.80>423.00 (-) 1.17e6



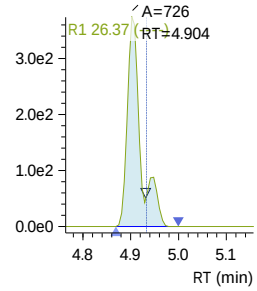
PFNA-13C_IS
Conc 5.0000
ISTD 467.80>423.00 (-) 1.17e6



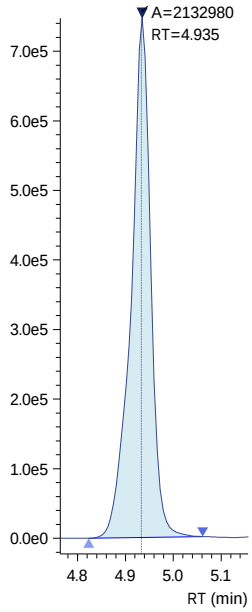
PFDA
Conc 0.0046
R#1 26.37 (20.24)
Q 513.00>468.80 (-) 1.21e3



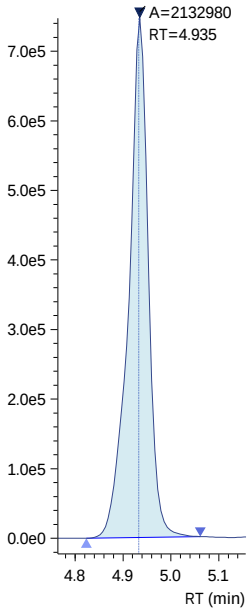
R1 513.00>219.10 (-) 3.74e2



PFDA-13C
Conc 4.9993
Q 514.80>469.95 (-) 7.47e5

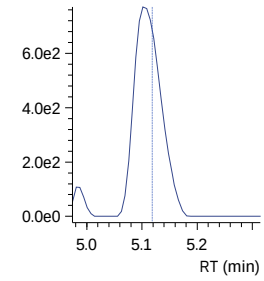


PFDA-13C_IS
Conc 5.0000
ISTD 514.80>469.95 (-) 7.47e5

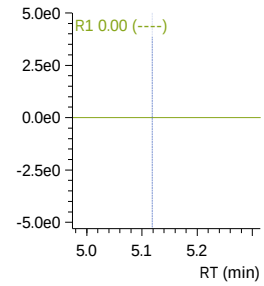


210909_014 (continued)

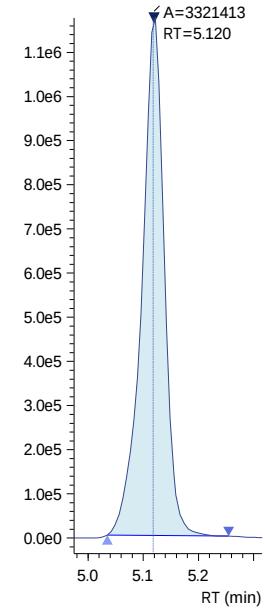
PFUnA
Conc ----
R#1 0.00 (12.46)
Q 563.00>518.90 (-) 7.71e2



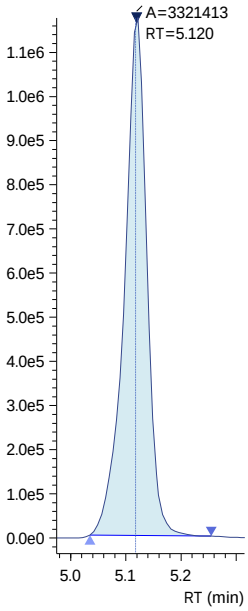
R1 563.00>219.00 (-) 0.00e0



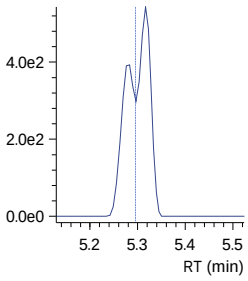
PFUnA-13C
Conc 5.1629
Q 564.80>519.95 (-) 1.18e6



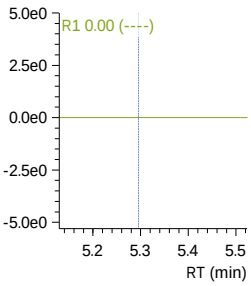
PFUnA-13C_IS
Conc 5.0000
ISTD 564.80>519.95 (-) 1.18e6



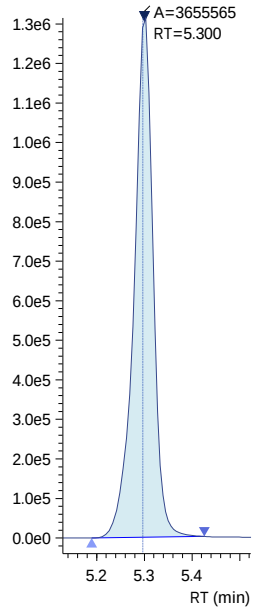
PFDoA
Conc ----
R#1 0.00 (16.50)
Q 613.05>569.00 (-) 5.43e2



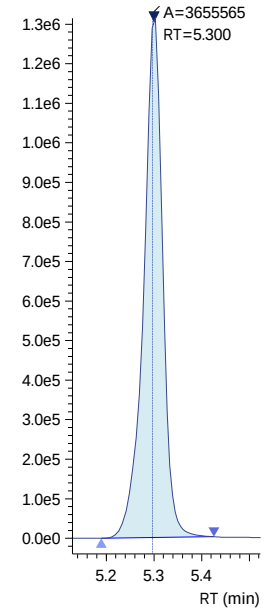
R1 613.05>169.00 (-) 0.00e0



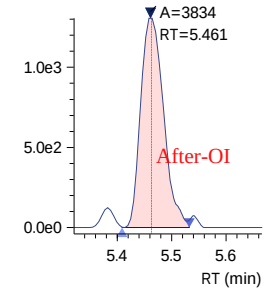
PFDoA-13C
Conc 5.1516
Q 614.80>569.95 (-) 1.32e6



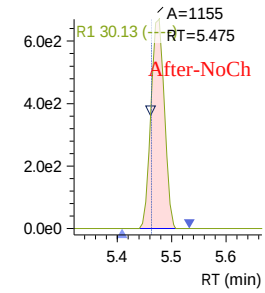
PFDoA-13C_IS
Conc 5.0000
ISTD 614.80>569.95 (-) 1.32e6



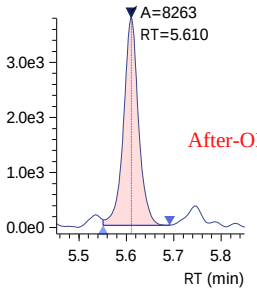
PFTrDA
Conc 0.0053
R#1 30.13 (15.29)
Q 663.00>618.90 (-) 1.31e3



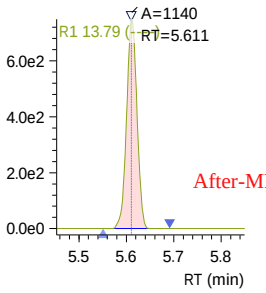
R1 662.90>169.00 (-) 6.70e2



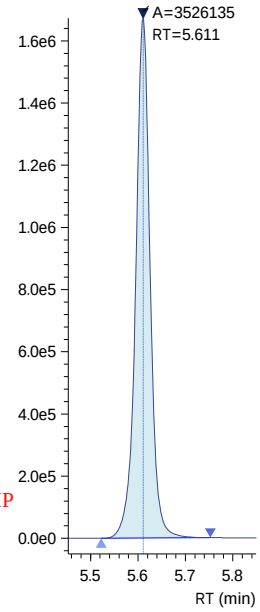
PFTeDA
Conc 0.0106
R#1 13.79 (17.47)
Q 713.00>669.00 (-) 3.80e3



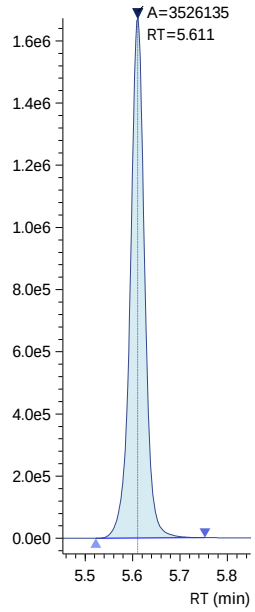
R1 713.00>169.10 (-) 7.49e2



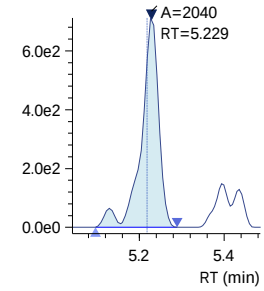
PFTeDA-13C
Conc 4.9526
Q 714.70>669.90 (-) 1.67e6

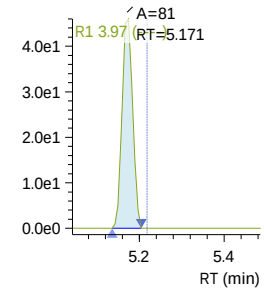


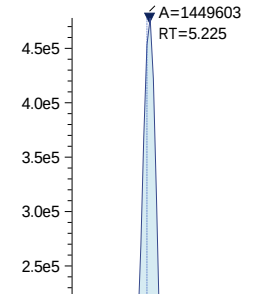
PFTeDA-13C_IS
Conc 5.0000
ISTD 714.70>669.90 (-) 1.67e6

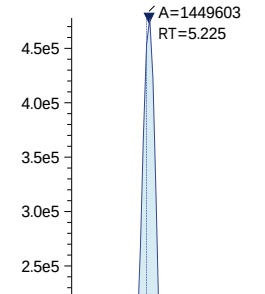


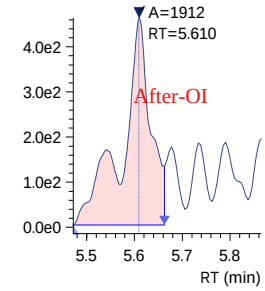
210909_014 (continued)

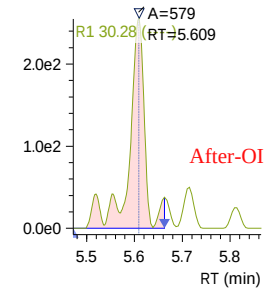
FOSA
Conc 0.0059
R#1 3.97 (5.19)
Q 498.20>78.00 (-) 7.12e2


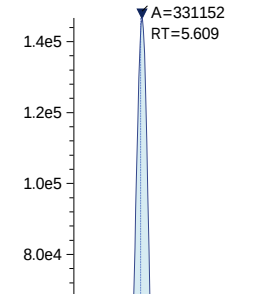
R1 498.20>64.10 (-) 4.60e1


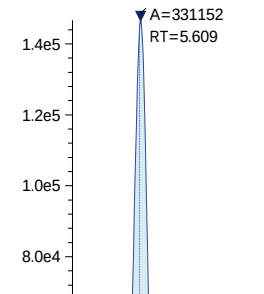
FOSA-13C
Conc 4.9071
Q 506.00>78.05 (-) 4.78e5


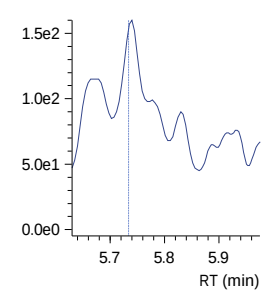
FOSA-13C_IS
Conc 5.0000
ISTD 506.00>78.05 (-) 4.78e5


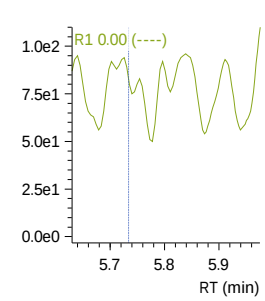
N-MeFOSA
Conc 0.0152
R#1 30.28 (69.94)
Q 512.00>169.10 (-) 4.64e2


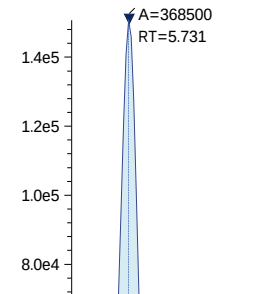
R1 512.00>219.00 (-) 2.55e2


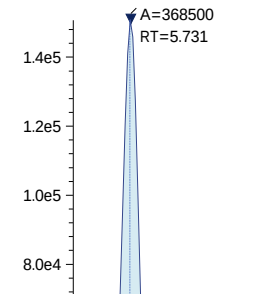
N-MeFOSA-d3
Conc 4.9961
Q 514.90>168.90 (-) 1.47e5


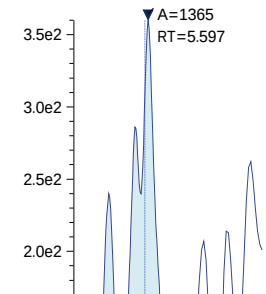
N-MeFOSA-d3_IS
Conc 5.0000
ISTD 514.90>168.90 (-) 1.47e5


N-MeFOSA
Conc ----
R#1 0.00 (66.52)
Q 526.90>169.10 (-) 1.60e2


R1 526.90>219.00 (-) 1.10e2


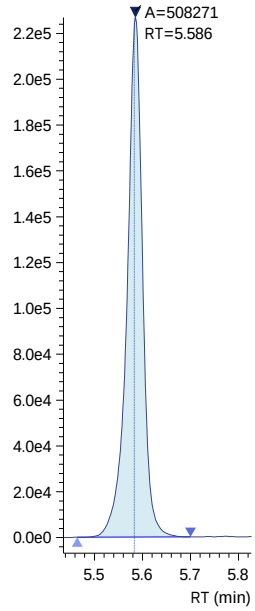
N-EtFOSA-d9
Conc 4.7722
Q 530.90>169.15 (-) 1.51e5


N-EtFOSA-d9_IS
Conc 5.0000
ISTD 530.90>169.15 (-) 1.51e5


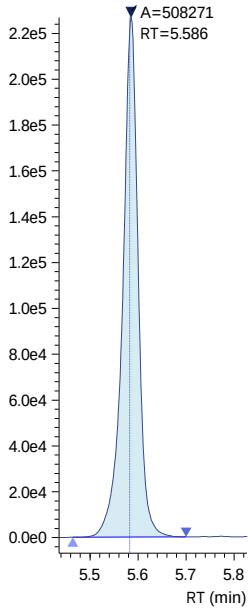
N-MeFOSE
Conc 0.0075
Q 616.00>59.00 (-) 3.60e2


210909_014 (continued)

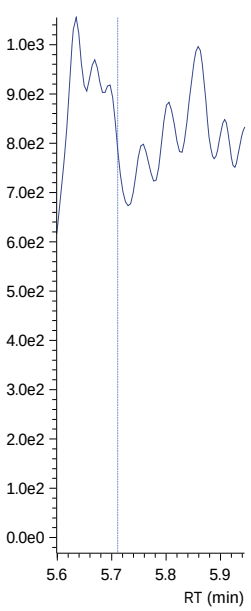
N-MeFOSE-d7
Conc 4.9799
Q 622.70>59.10 (-) 2.27e5



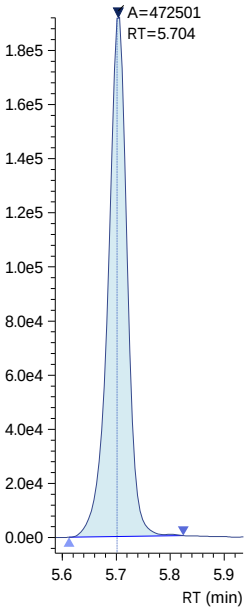
N-MeFOSE-d7_IS
Conc 5.0000
ISTD 622.70>59.10 (-) 2.27e5



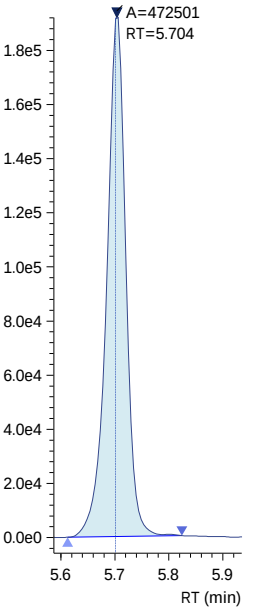
N-EtFOSE
Conc ----
Q 630.00>58.90 (-) 1.06e3



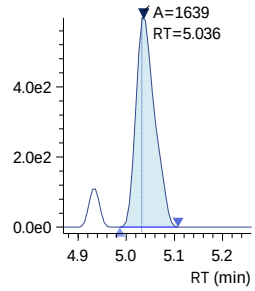
N-EtFOSE-d9
Conc 4.8886
Q 638.70>59.10 (-) 1.92e5



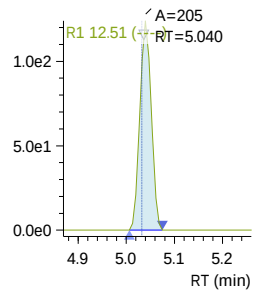
N-EtFOSE-d9_IS
Conc 5.0000
ISTD 638.70>59.10 (-) 1.92e5



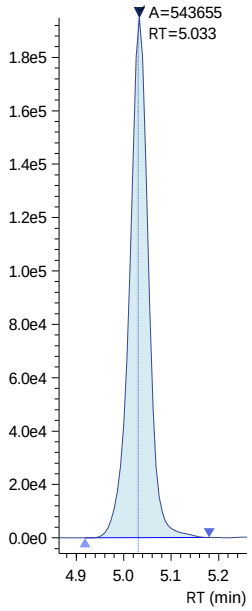
N-MeFOSAA
Conc 0.0276
R#1 12.51 (39.56)
Q 570.20>419.00 (-) 5.97e2



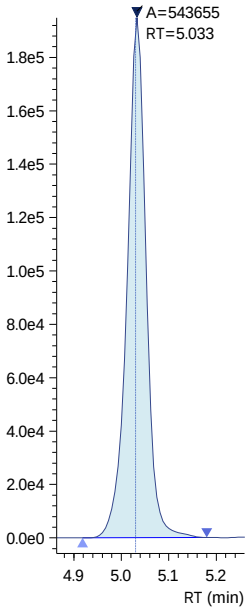
R1 570.20>512.00 (-) 1.24e2



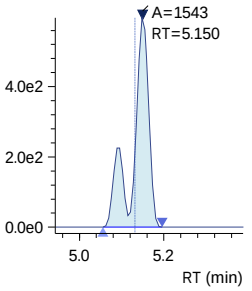
N-MeFOSAA-d3
Conc 4.6365
Q 572.80>419.05 (-) 1.95e5



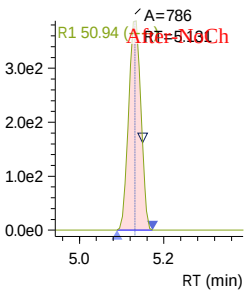
N-MeFOSAA-d3_IS
Conc 5.0000
ISTD 572.80>419.05 (-) 1.95e5



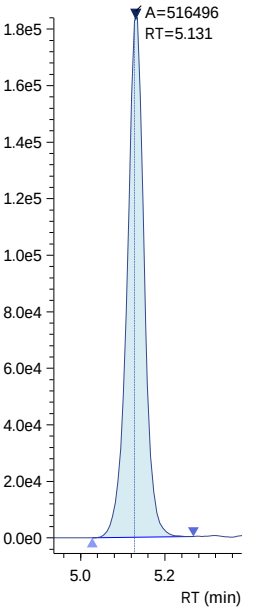
N-EtFOSAA
Conc 0.0455
R#1 50.94 (84.54)
Q 584.20>418.95 (-) 5.96e2



R1 584.20>526.10 (-) 3.88e2

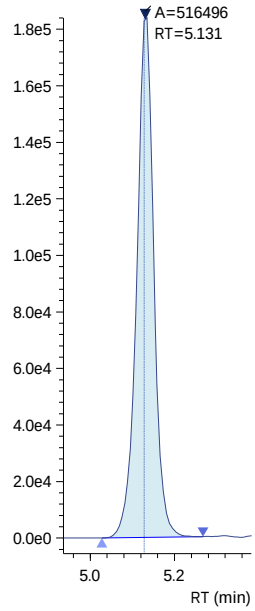


N-EtFOSAA-d5
Conc 5.2092
Q 588.80>419.00 (-) 1.84e5

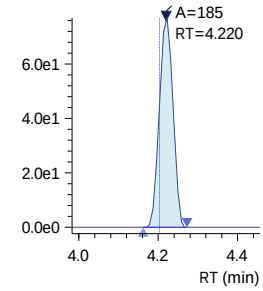


210909_014 (continued)

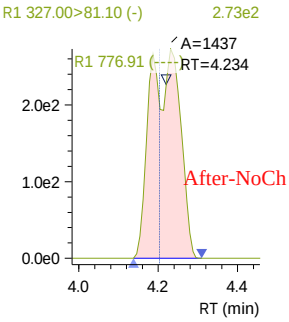
N-EtFOSAA-d5_IS
Conc 5.0000
ISTD 588.80>419.00 (-) 1.84e5



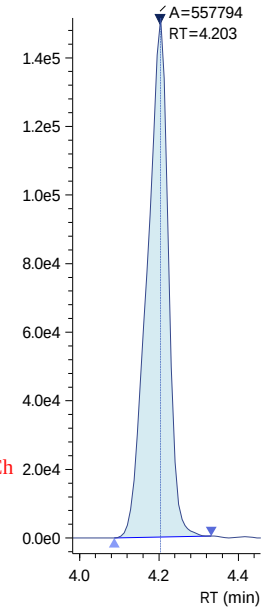
4_2-FTS_1
Conc 0.0018
R#1 776.91 (34.12)
Q 327.00>307.05 (-) 7.70e1



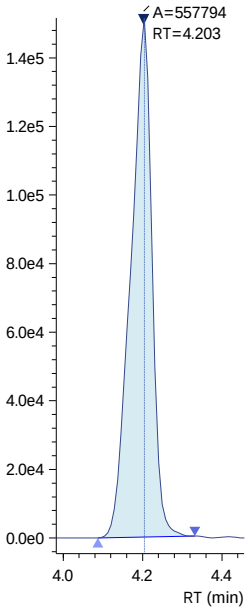
R1 327.00>81.10 (-) 2.73e2



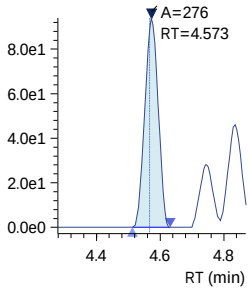
4_2-FTS-13C
Conc 5.0757
Q 328.80>309.05 (-) 1.52e5



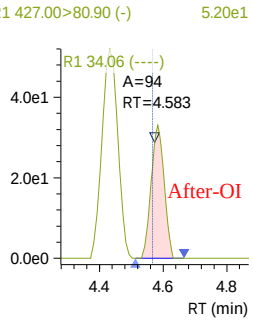
4_2-FTS-13C_IS
Conc 5.0000
ISTD 328.80>309.05 (-) 1.52e5



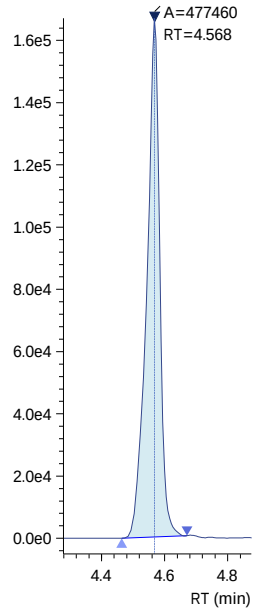
6_2-FTS_1
Conc 0.0022
R#1 34.06 (37.36)
Q 427.00>407.00 (-) 9.40e1



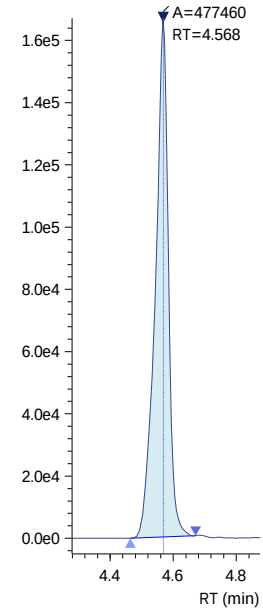
R1 427.00>80.90 (-) 5.20e1



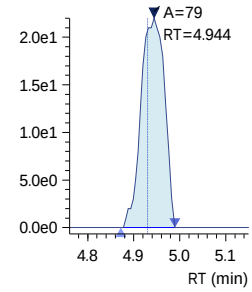
6_2-FTS-13C
Conc 5.1423
Q 428.90>409.00 (-) 1.67e5



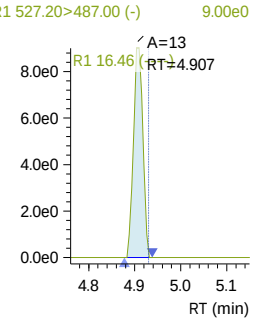
6_2-FTS-13C_IS
Conc 5.0000
ISTD 428.90>409.00 (-) 1.67e5



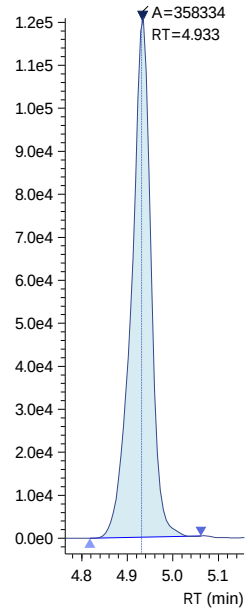
8_2-FTS_1
Conc 0.0012
R#1 16.46 (10.63)
Q 527.10>506.90 (-) 2.20e1



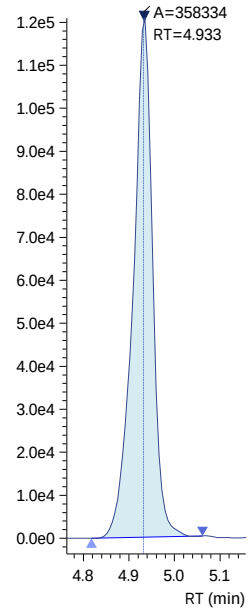
R1 527.20>487.00 (-) 9.00e0



8_2-FTS-13C
Conc 5.3089
Q 528.80>509.00 (-) 1.21e5

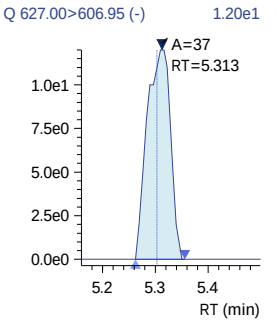


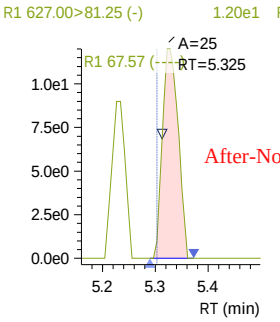
8_2-FTS-13C_IS
Conc 5.0000
ISTD 528.80>509.00 (-) 1.21e5



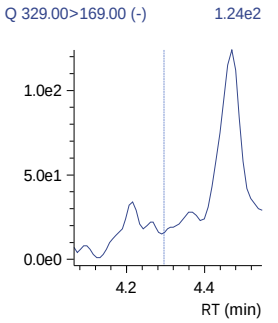
210909_014 (continued)

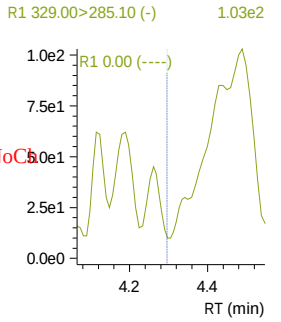
10_2-FtS_1
Conc 0.0007
R#1 67.57 (21.61)



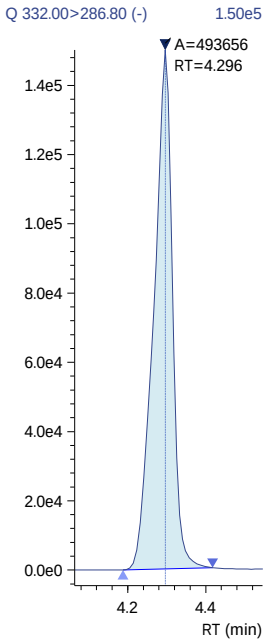


HPFO_DA
Conc ----
R#1 0.00 (106.46)

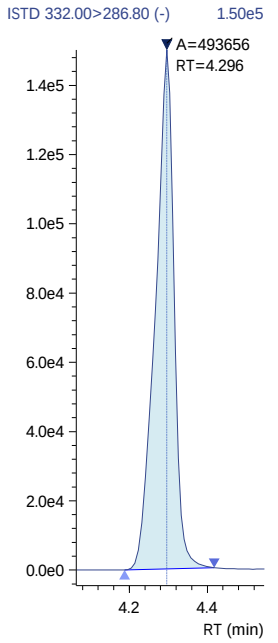




HFPO_DA-13C
Conc 4.9603



HFPO_DA-13C_IS
Conc 5.0000



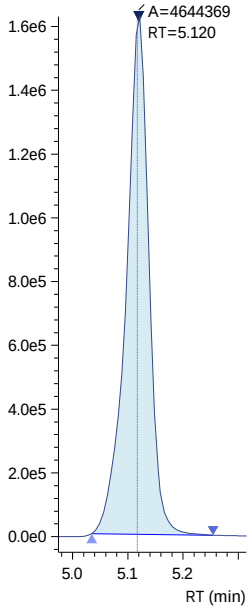
After-NoCh

Insight Report
Before Manual Integration
Printed 9/9/2021 15:44:22

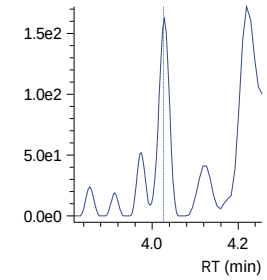
210909_014

Sample ID: CCB
Date Acquired: 9/9/2021 2:57:40 PM
Acquired by: System Administrator
Data File: 210909_014
Vial: 9 | Inj. Volume: 15.0000uL | Tray: 1

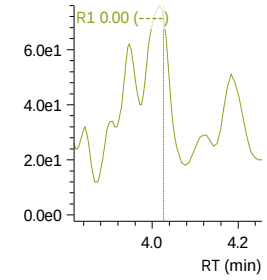
13C7-PFUnDA_IS
Conc 5.0000
ISTD 570.00>525.00 (-) 1.63e6



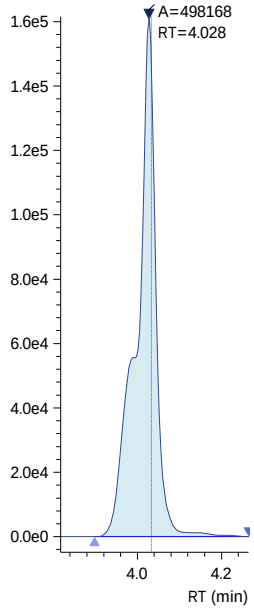
PFBS_1
Conc ----
R#1 0.00 (46.55)
Q 299.00>80.00 (-) 1.72e2



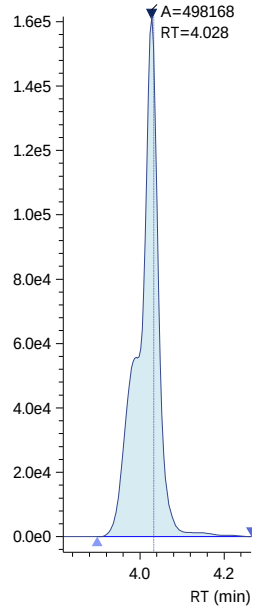
R1 298.80>99.00 (-) 7.60e1



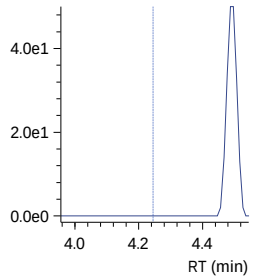
PFBS-13C
Conc 4.9334
Q 301.80>80.00 (-) 1.62e5



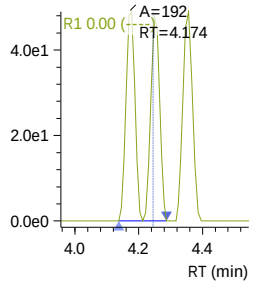
PFBS-13C_IS
Conc 5.0000
ISTD 301.80>80.00 (-) 1.62e5



PFPeS
Conc ----
R#1 0.00 (154.38)
Q 349.00>99.00 (-) 5.00e1



R1 349.00>79.95 (-) 4.90e1



210909_014 (continued)

PFHxS_1
Conc 0.0097
R#1 96.21 (76.59)
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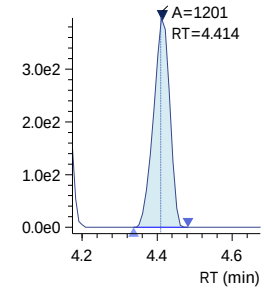
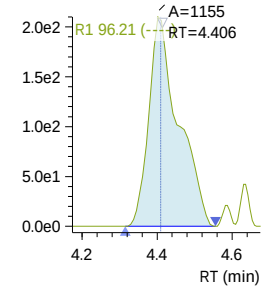


R1 399.00>99.00 (-) 2.10e2



PFHxS-18O
Conc 4.8432
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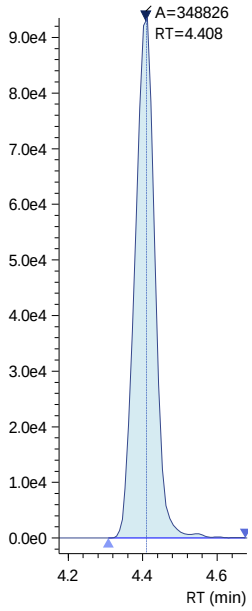
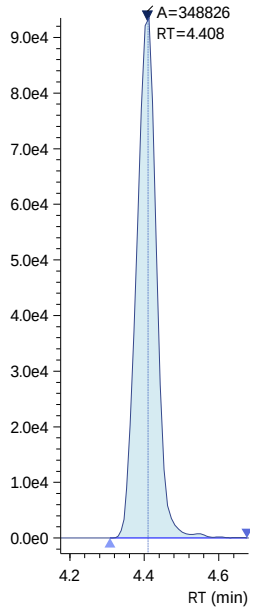
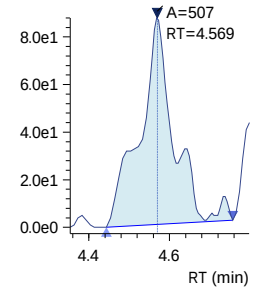


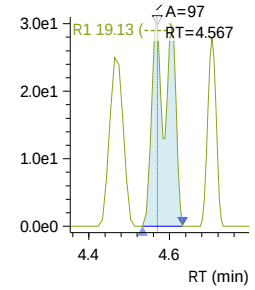
PFHxS-18O_IS
Conc 5.0000
ISTD 402.70>84.05 (-) 9.35e4



PFHpS_1
Conc 0.0042
R#1 19.13 (53.58)
Q 449.00>80.15 (-) 8.80e1



R1 449.00>99.20 (-) 3.10e1



PFOS_1
Conc 0.0033
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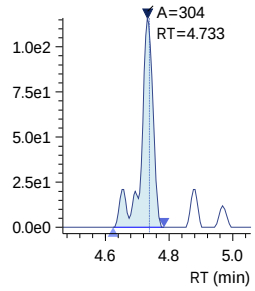
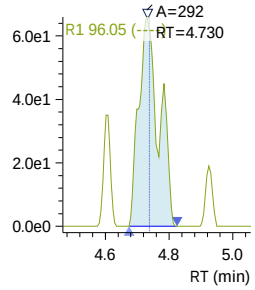
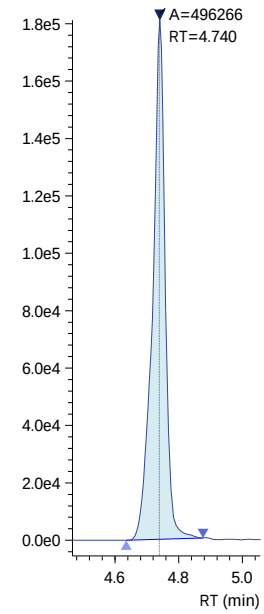


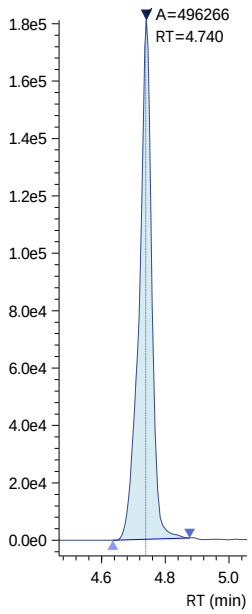
R1 499.00>99.00 (-) 6.60e1



PFOS-13C
Conc 5.0422
Q 502.80>80.05 (-) 1.81e5



PFOS-13C_IS
Conc 5.0000
ISTD 502.80>80.05 (-) 1.81e5



PFNS
Conc 0.0012
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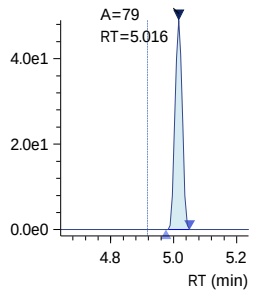
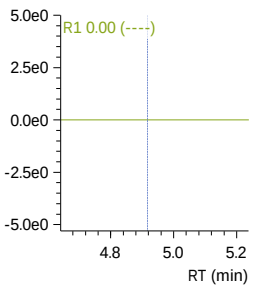
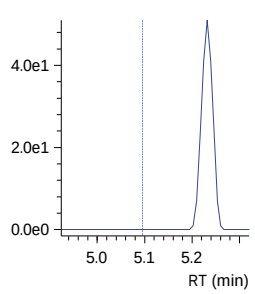
Q 549.00>99.00 (-) 4.90e1



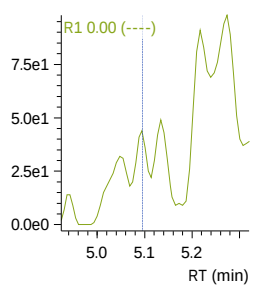
R1 549.00>79.95 (-) 0.00e0



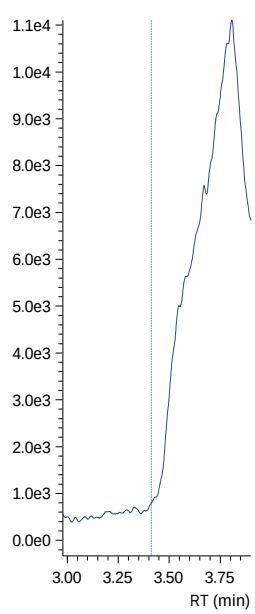
PFDS_1
Conc ----
R#1 0.00 (89.20)
Q 599.00>79.90 (-) 5.10e1



R1 599.00>99.10 (-) 9.80e1

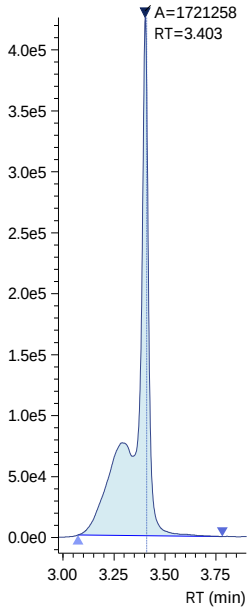


PFBA
Conc ----
Q 213.00>169.10 (-) 1.11e4



210909_014 (continued)

PFBA-13C
Conc 4.7513
Q 216.90>172.15 (-) 4.27e5



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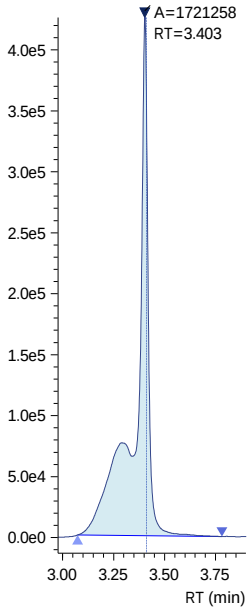
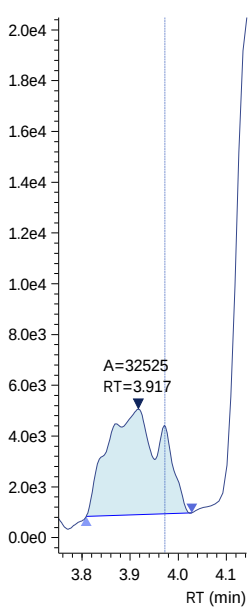
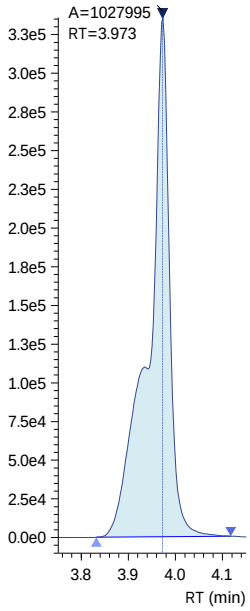
ISTD 216.90>172.15 (-) 4.27e5



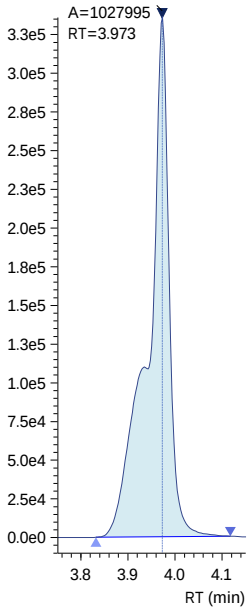
PFPeA
Conc 0.0173
Q 263.05>219.10 (-) 2.05e4



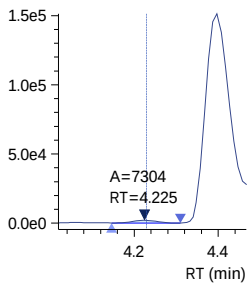
PFPeA-13C
Conc 4.9652
Q 267.90>223.00 (-) 3.36e5



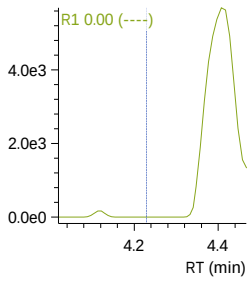
PFPeA-13C_IS
Conc 5.0000
ISTD 267.90>223.00 (-) 3.36e5



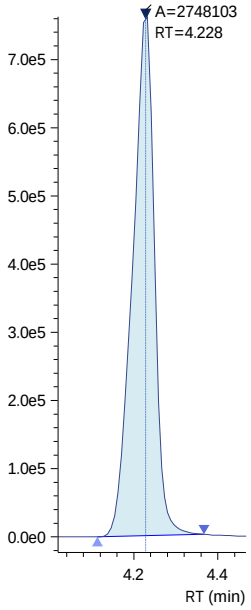
PFHxA
Conc 0.0102
R#1 0.00 (4.71)
Q 313.00>269.00 (-) 1.51e5



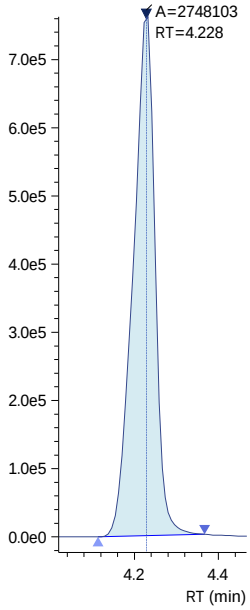
R1 313.00>119.10 (-) 5.69e3



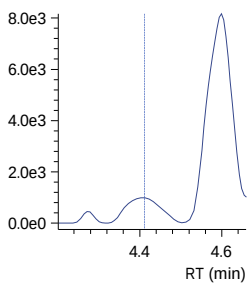
PFHxA-13C
Conc 4.6777
Q 314.90>270.10 (-) 7.63e5



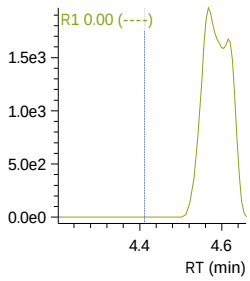
PFHxA-13C_IS
Conc 5.0000
ISTD 314.90>270.10 (-) 7.63e5



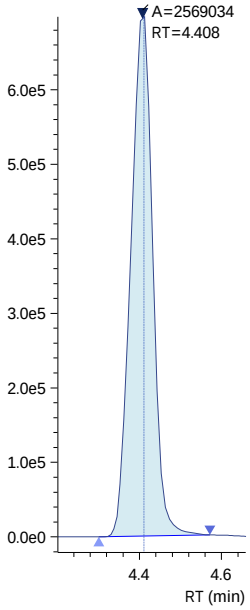
PFHpA
Conc ----
R#1 0.00 (24.79)
Q 362.90>319.00 (-) 8.17e3



R1 362.90>169.00 (-) 1.97e3



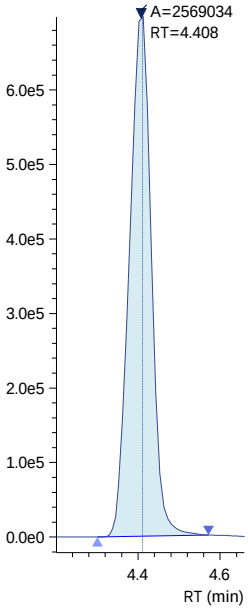
PFHpA-13C
Conc 4.8219
Q 366.90>322.10 (-) 6.98e5



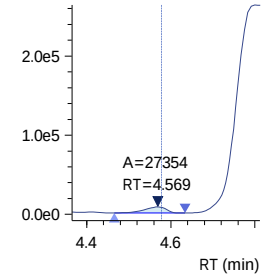
Insight Report
Before Manual Integration
Printed 9/9/2021 15:44:22

210909_014 (continued)

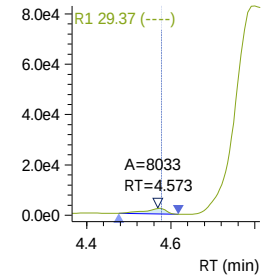
PFHpA-13C_IS
Conc 5.0000
ISTD 366.90>322.10 (-) 6.98e5



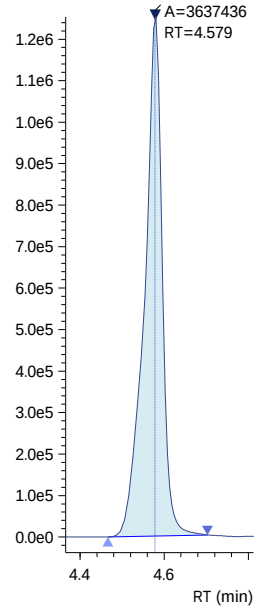
PFOA
Conc 0.0291
R#1 29.37 (30.61)
Q 413.00>369.00 (-) 2.65e5



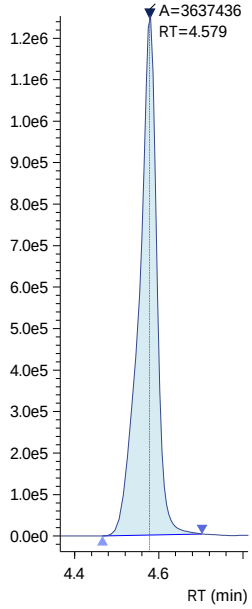
R1 413.00>169.10 (-) 8.31e4



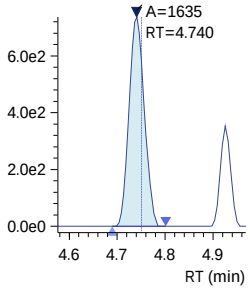
PFOA-13C
Conc 5.1068
Q 416.80>372.05 (-) 1.25e6



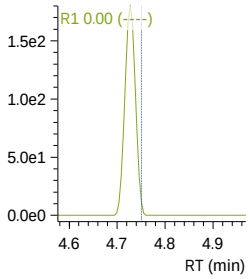
PFOA-13C_IS
Conc 5.0000
ISTD 416.80>372.05 (-) 1.25e6



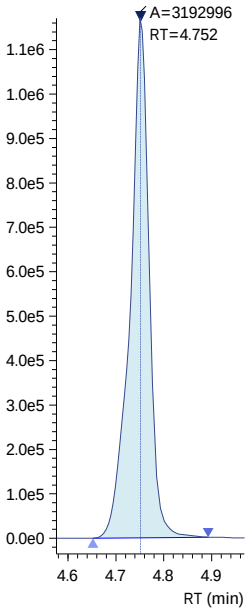
PFNA
Conc 0.0025
R#1 0.00 (23.82)
Q 463.00>418.90 (-) 7.37e2



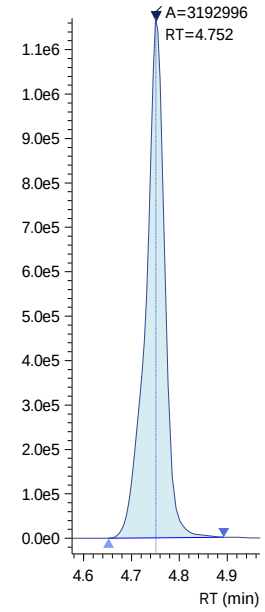
R1 463.00>219.00 (-) 1.80e2



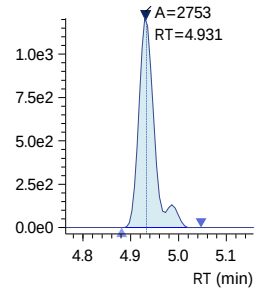
PFNA-13C
Conc 5.2031
Q 467.80>423.00 (-) 1.17e6



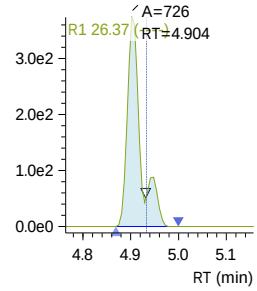
PFNA-13C_IS
Conc 5.0000
ISTD 467.80>423.00 (-) 1.17e6



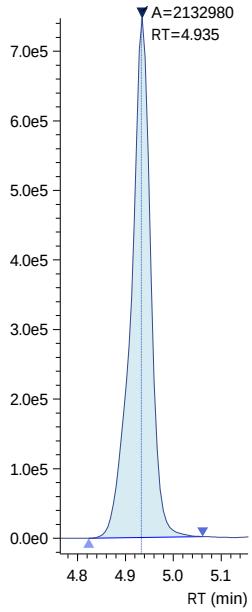
PFDA
Conc 0.0046
R#1 26.37 (20.11)
Q 513.00>468.80 (-) 1.21e3



R1 513.00>219.10 (-) 3.74e2



PFDA-13C
Conc 4.9993
Q 514.80>469.95 (-) 7.47e5



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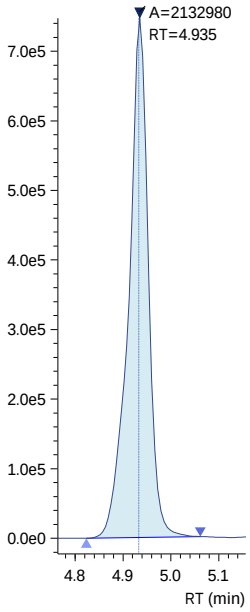
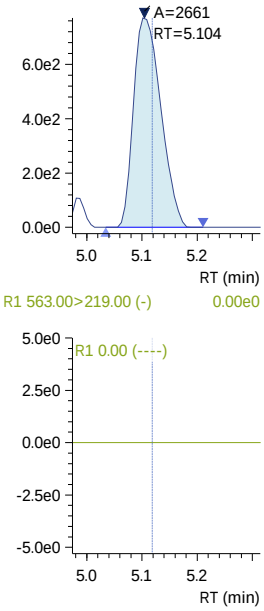
Conc 5.0000
ISTD 514.80>469.95 (-) 7.47e5



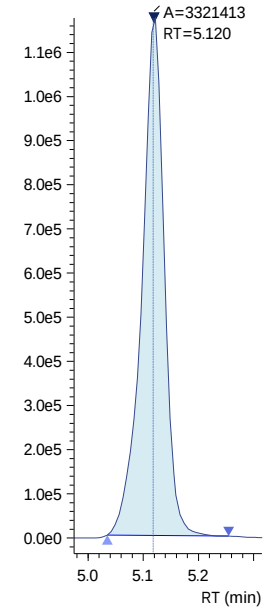
210909_014 (continued)

PFUnA
Conc 0.0036
R#1 0.00 (13.40)
Q 563.00>518.90 (-) 7.71e2

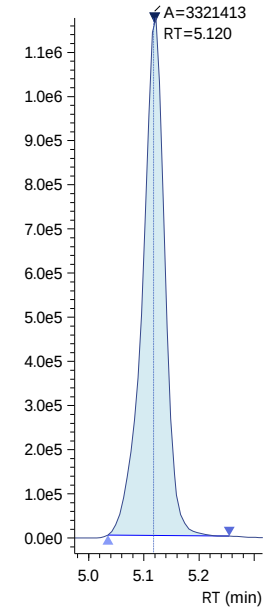


R1 563.00>219.00 (-) 0.00e0

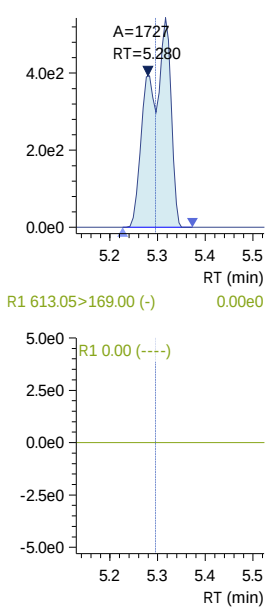
PFUnA-13C
Conc 5.1629
Q 564.80>519.95 (-) 1.18e6



PFUnA-13C_IS
Conc 5.0000
ISTD 564.80>519.95 (-) 1.18e6

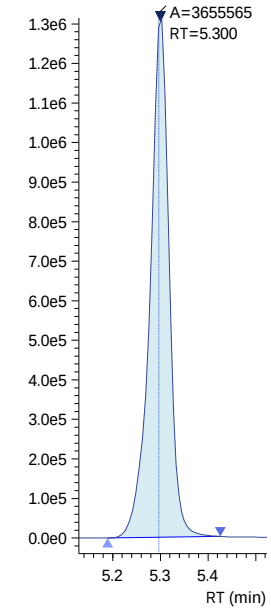


PFDoA
Conc 0.0026
R#1 0.00 (17.67)
Q 613.05>569.00 (-) 5.43e2

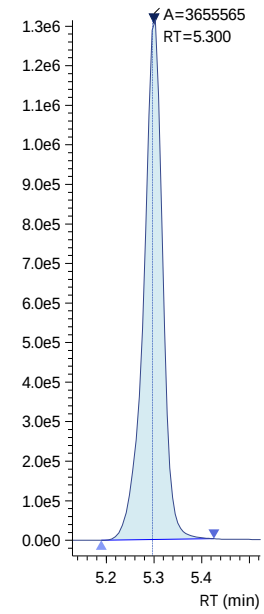


R1 613.05>169.00 (-) 0.00e0

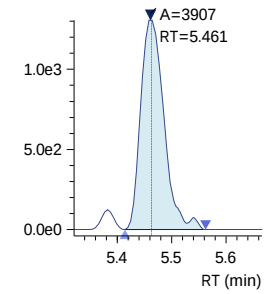
PFDoA-13C
Conc 5.1516
Q 614.80>569.95 (-) 1.32e6



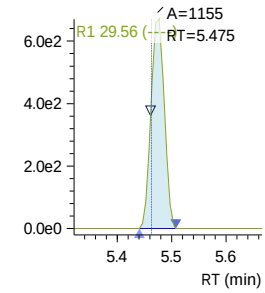
PFDoA-13C_IS
Conc 5.0000
ISTD 614.80>569.95 (-) 1.32e6



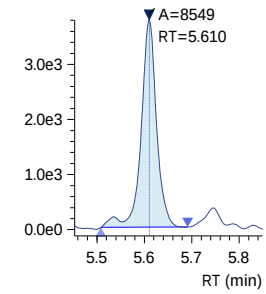
PFTrDA
Conc 0.0054
R#1 29.56 (14.03)
Q 663.00>618.90 (-) 1.31e3



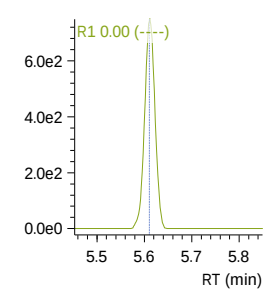
R1 662.90>169.00 (-) 6.70e2



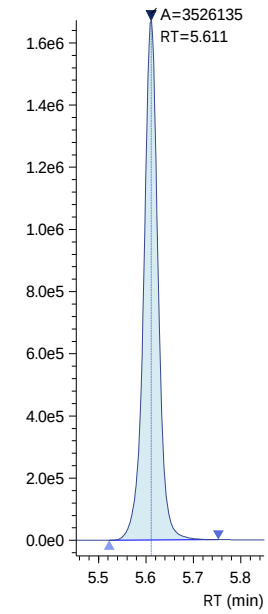
PFTeDA
Conc 0.0110
R#1 0.00 (16.71)
Q 713.00>669.00 (-) 3.80e3



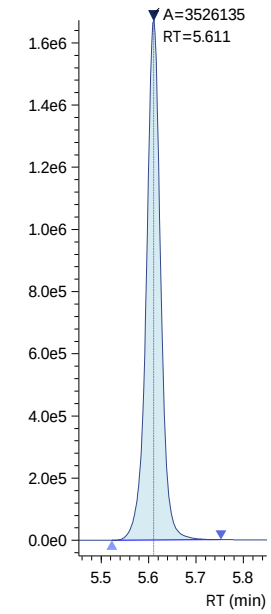
R1 713.00>169.10 (-) 7.49e2



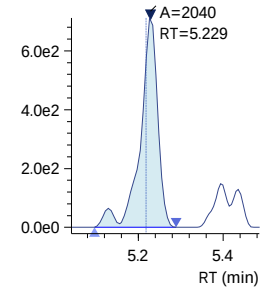
PFTeDA-13C
Conc 4.9526
Q 714.70>669.90 (-) 1.67e6

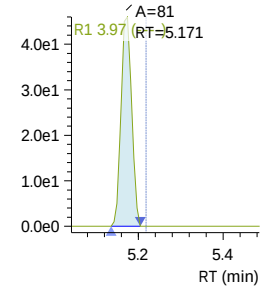


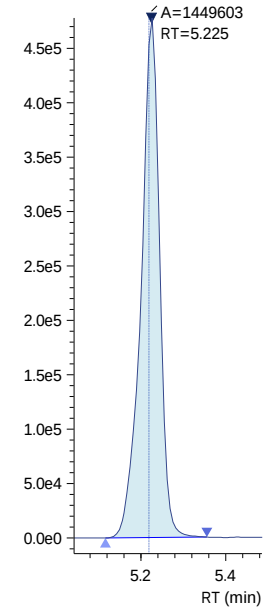
PFTeDA-13C_IS
Conc 5.0000
ISTD 714.70>669.90 (-) 1.67e6

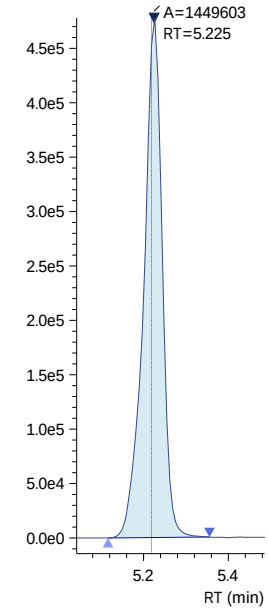


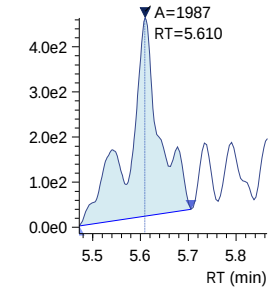
210909_014 (continued)

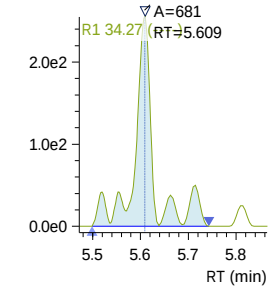
FOSA
Conc 0.0059
R#1 3.97 (4.71)
Q 498.20>78.00 (-) 7.12e2


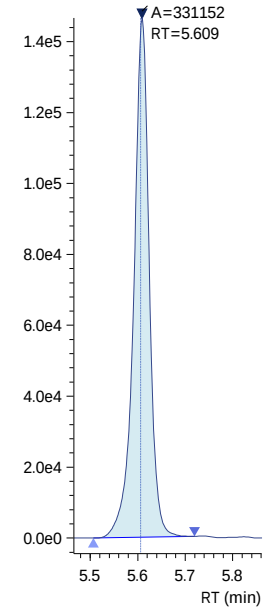
R1 498.20>64.10 (-) 4.60e1


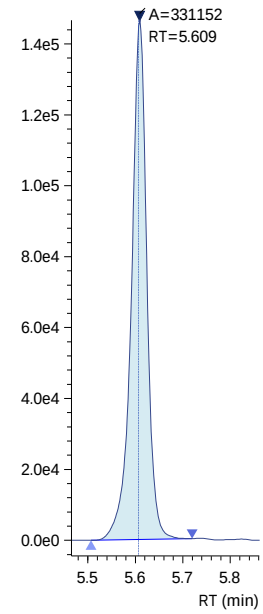
FOSA-13C
Conc 4.9071
Q 506.00>78.05 (-) 4.78e5


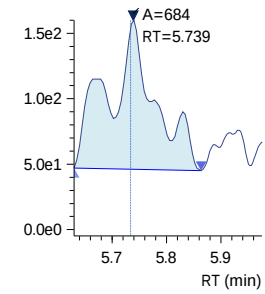
FOSA-13C_IS
Conc 5.0000
ISTD 506.00>78.05 (-) 4.78e5


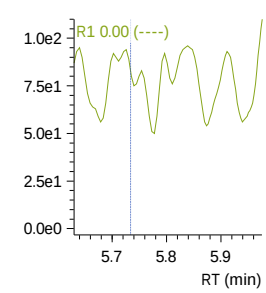
N-MeFOSA
Conc 0.0157
R#1 34.27 (66.26)
Q 512.00>169.10 (-) 4.64e2


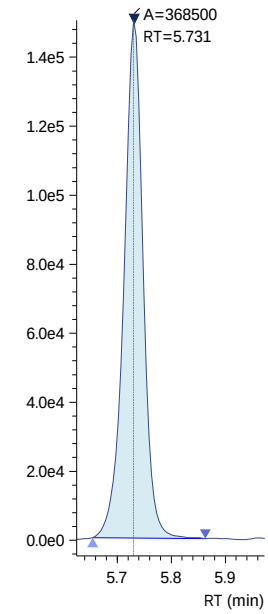
R1 512.00>219.00 (-) 2.55e2


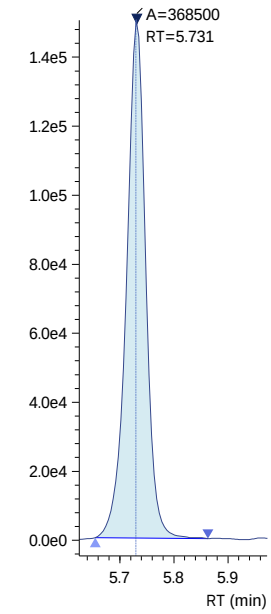
N-MeFOSA-d3
Conc 4.9961
Q 514.90>168.90 (-) 1.47e5


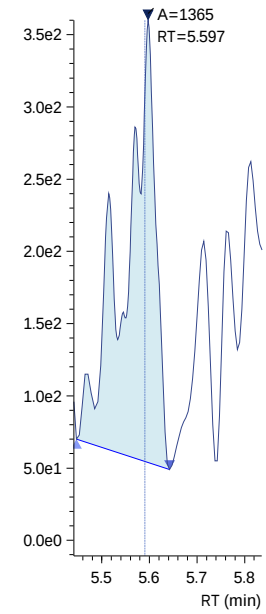
N-MeFOSA-d3_IS
Conc 5.0000
ISTD 514.90>168.90 (-) 1.47e5


N-EtFOSA
Conc 0.0298
R#1 0.00 (64.28)
Q 526.90>169.10 (-) 1.60e2


R1 526.90>219.00 (-) 1.10e2


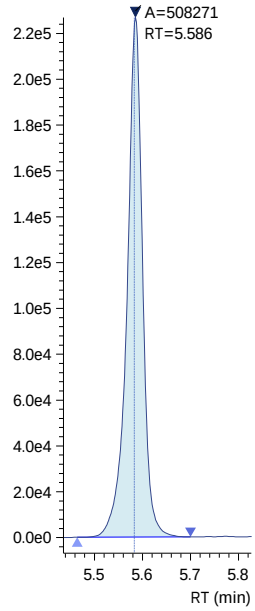
N-EtFOSA-d9
Conc 4.7722
Q 530.90>169.15 (-) 1.51e5


N-EtFOSA-d9_IS
Conc 5.0000
ISTD 530.90>169.15 (-) 1.51e5


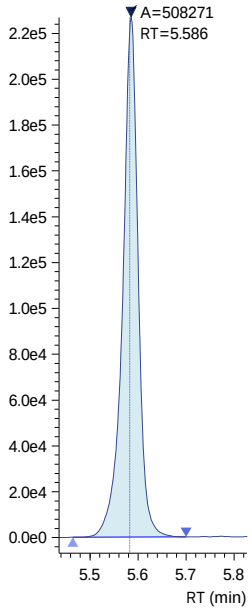
N-MeFOSE
Conc 0.0074
Q 616.00>59.00 (-) 3.60e2


210909_014 (continued)

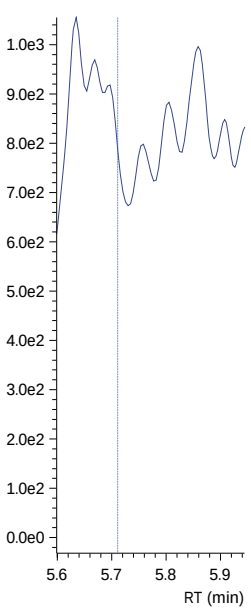
N-MeFOSE-d7
Conc 4.9799
Q 622.70>59.10 (-) 2.27e5



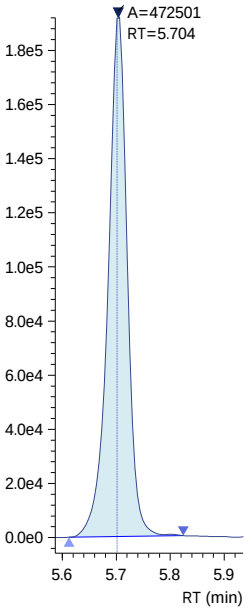
N-MeFOSE-d7_IS
Conc 5.0000
ISTD 622.70>59.10 (-) 2.27e5



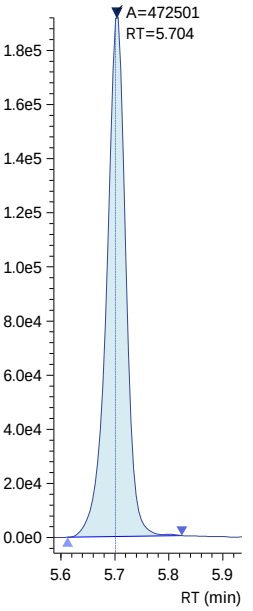
N-EtFOSE
Conc ----
Q 630.00>58.90 (-) 1.06e3



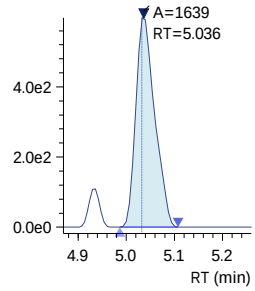
N-EtFOSE-d9
Conc 4.8886
Q 638.70>59.10 (-) 1.92e5



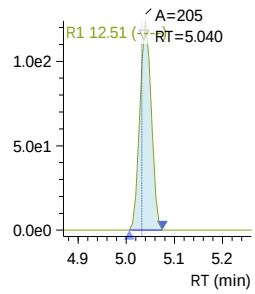
N-EtFOSE-d9_IS
Conc 5.0000
ISTD 638.70>59.10 (-) 1.92e5



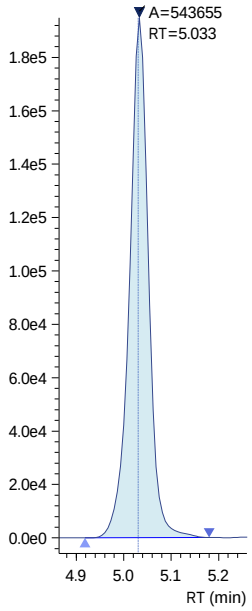
N-MeFOSAA
Conc 0.0276
R#1 12.51 (39.15)
Q 570.20>419.00 (-) 5.97e2



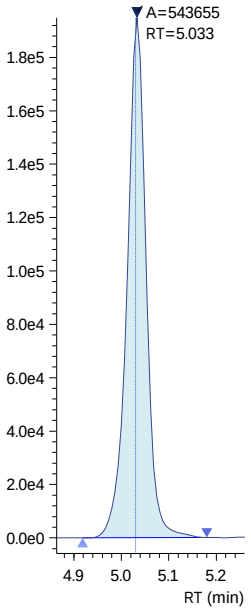
R1 570.20>512.00 (-) 1.24e2



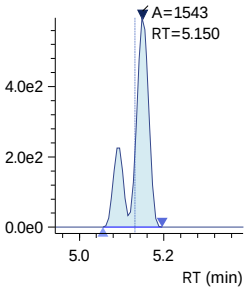
N-MeFOSAA-d3
Conc 4.6365
Q 572.80>419.05 (-) 1.95e5



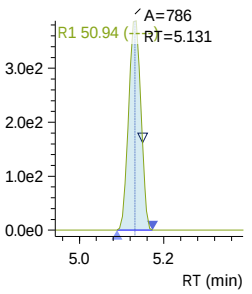
N-MeFOSAA-d3_IS
Conc 5.0000
ISTD 572.80>419.05 (-) 1.95e5



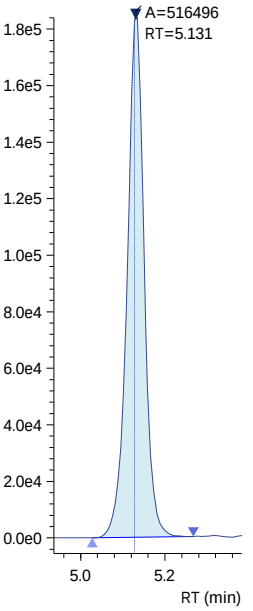
N-EtFOSAA
Conc 0.0455
R#1 50.94 (76.53)
Q 584.20>418.95 (-) 5.96e2



R1 584.20>526.10 (-) 3.88e2



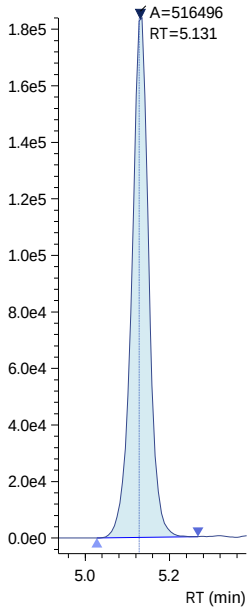
N-EtFOSAA-d5
Conc 5.2092
Q 588.80>419.00 (-) 1.84e5



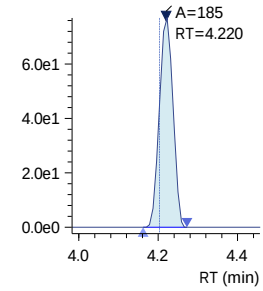
Insight Report
Before Manual Integration
Printed 9/9/2021 15:44:22

210909_014 (continued)

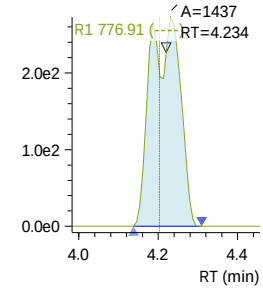
N-EtFOSAA-d5_IS
Conc 5.0000
ISTD 588.80>419.00 (-) 1.84e5



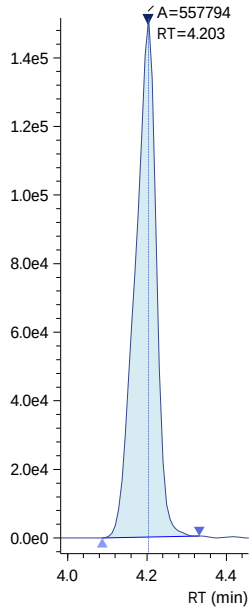
4_2-FTS_1
Conc 0.0018
R#1 776.91 (26.47)
Q 327.00>307.05 (-) 7.70e1



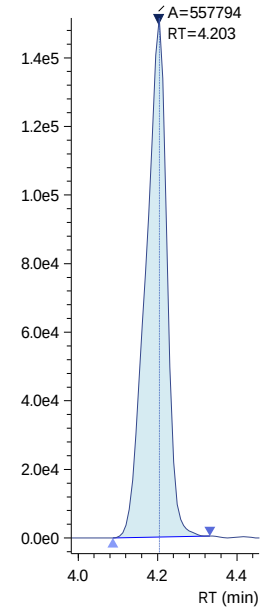
R1 327.00>81.10 (-) 2.73e2



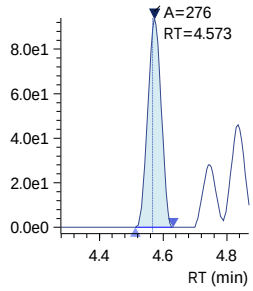
4_2-FTS-13C
Conc 5.0757
Q 328.80>309.05 (-) 1.52e5



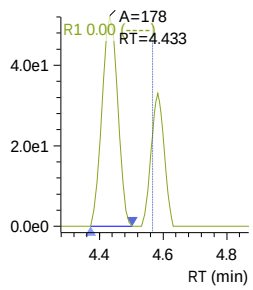
4_2-FTS-13C_IS
Conc 5.0000
ISTD 328.80>309.05 (-) 1.52e5



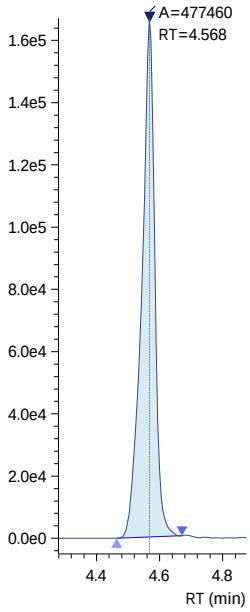
6_2-FTS_1
Conc 0.0022
R#1 0.00 (30.68)
Q 427.00>407.00 (-) 9.40e1



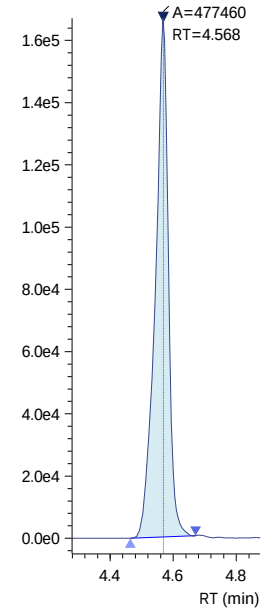
R1 427.00>80.90 (-) 5.20e1



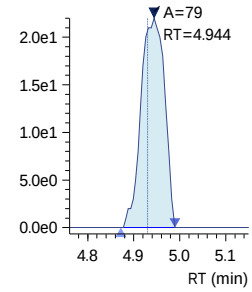
6_2-FTS-13C
Conc 5.1423
Q 428.90>409.00 (-) 1.67e5



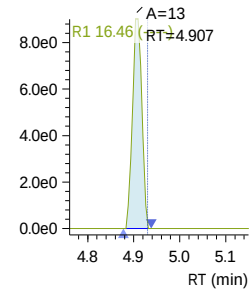
6_2-FTS-13C_IS
Conc 5.0000
ISTD 428.90>409.00 (-) 1.67e5



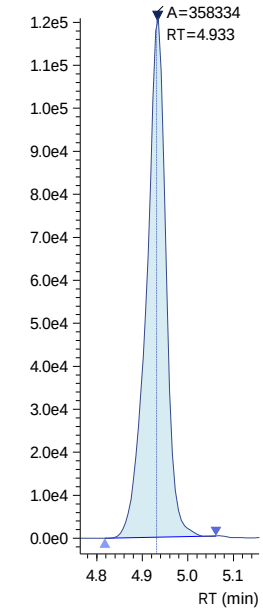
8_2-FTS_1
Conc 0.0012
R#1 16.46 (8.90)
Q 527.10>506.90 (-) 2.20e1



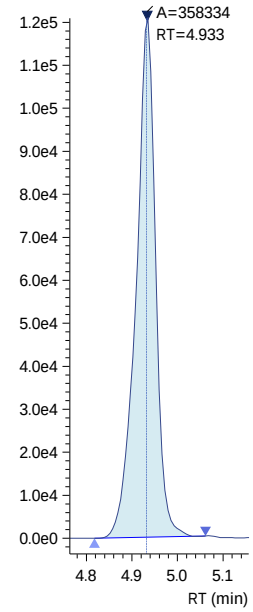
R1 527.20>487.00 (-) 9.00e0



8_2-FTS-13C
Conc 5.3089
Q 528.80>509.00 (-) 1.21e5



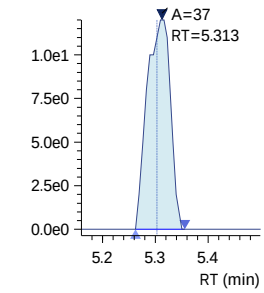
8_2-FTS-13C_IS
Conc 5.0000
ISTD 528.80>509.00 (-) 1.21e5

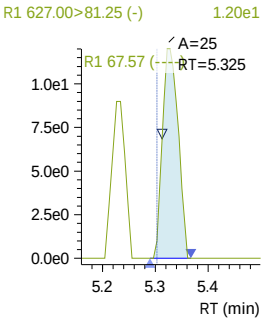


Insight Report
Before Manual Integration
Printed 9/9/2021 15:44:22

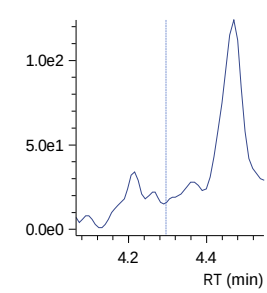
210909_014 (continued)

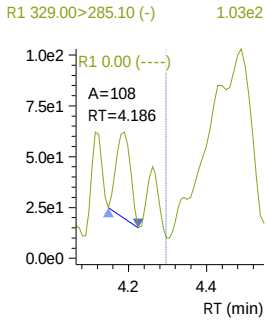
10_2-FtS_1
Conc 0.0007
R#1 67.57 (26.33)



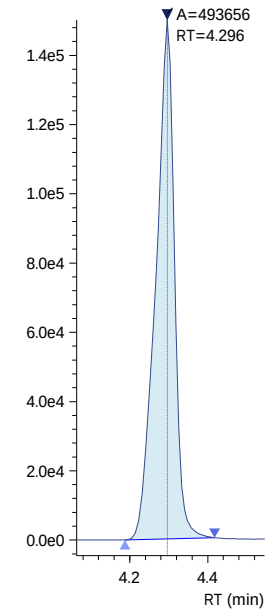


HPFO_DA
Conc ----
R#1 0.00 (103.01)

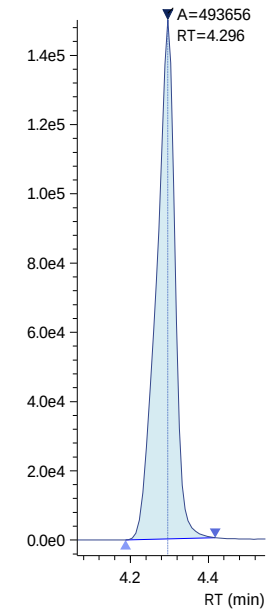




HFPO_DA-13C
Conc 4.9603



HFPO_DA-13C_IS
Conc 5.0000



Insight Report
Retention Time/Signal:Noise Ratio Confirmation
Printed 9/9/2021 16:28:51

210909_015

Sample ID: PFC ICAL @ 15ppb
Date Acquired: 9/9/2021 3:08:08 PM
Acquired by: System Administrator
Data File: 210909_015
Vial: 7 | Inj. Volume: 15.0000uL | Tray: 0

Name	m/z	Ref 1 m/z	Found RT	RT Diff	ISTD RT Diff	S/N	Ref 1 S/N	Flag ID
13C7-PFUnDA_IS	570.00>525.00	----	5.117	0.000	----	2007	----	
PFBS_1	299.00>80.00	298.80>99.00	4.025	-0.002	0.000	258233	31585	
PFBS-13C	301.80>80.00	----	4.025	-0.008	-1.092	8461	----	
PFBS-13C_IS	301.80>80.00	----	4.025	-0.008	----	8461	----	
PFPeS	349.00>99.00	349.00>79.95	4.242	-0.003	0.217	(INF)	(INF)	
PFHxS_1	399.00>80.00	399.00>99.00	4.404	-0.006	-0.003	369943	26286	
PFHxS-18O	402.70>84.05	----	4.407	-0.003	-0.710	(INF)	----	
PFHxS-18O_IS	402.70>84.05	----	4.407	-0.003	----	(INF)	----	
PFHpS_1	449.00>80.15	449.00>99.20	4.566	-0.004	0.159	357944	555567	
PFOS_1	499.00>80.00	499.00>99.00	4.735	-0.003	-0.001	(INF)	(INF)	
PFOS-13C	502.80>80.05	----	4.736	-0.003	-0.381	7687	----	
PFOS-13C_IS	502.80>80.05	----	4.736	-0.003	----	7687	----	
PFNS	549.00>99.00	549.00>79.95	4.913	-0.003	0.177	26696	(INF)	
PFDS_1	599.00>79.90	599.00>99.10	5.094	-0.001	0.358	(INF)	(INF)	
PFBA	213.00>169.10	----	3.413	0.002	0.001	43263	----	
PFBA-13C	216.90>172.15	----	3.412	0.002	-1.705	14687	----	
PFBA-13C_IS	216.90>172.15	----	3.412	0.002	----	14687	----	
PFPeA	263.05>219.10	----	3.972	-0.001	0.001	12222	----	
PFPeA-13C	267.90>223.00	----	3.971	-0.002	-1.146	16387	----	
PFPeA-13C_IS	267.90>223.00	----	3.971	-0.002	----	16387	----	
PFHxA	313.00>269.00	313.00>119.10	4.227	-0.002	0.000	34634	(INF)	
PFHxA-13C	314.90>270.10	----	4.227	-0.002	-0.890	21401	----	
PFHxA-13C_IS	314.90>270.10	----	4.227	-0.002	----	21401	----	
PFHpA	362.90>319.00	362.90>169.00	4.407	-0.005	0.000	(INF)	(INF)	
PFHpA-13C	366.90>322.10	----	4.407	-0.004	-0.710	17560	----	
PFHpA-13C_IS	366.90>322.10	----	4.407	-0.004	----	17560	----	
PFOA	413.00>369.00	413.00>169.10	4.575	-0.003	0.000	13436	32184	
PFOA-13C	416.80>372.05	----	4.575	-0.003	-0.542	38732	----	
PFOA-13C_IS	416.80>372.05	----	4.575	-0.003	----	38732	----	
PFNA	463.00>418.90	463.00>219.00	4.750	-0.001	0.000	134770	(INF)	
PFNA-13C	467.80>423.00	----	4.750	-0.001	-0.367	22609	----	
PFNA-13C_IS	467.80>423.00	----	4.750	-0.001	----	22609	----	
PFDA	513.00>468.80	513.00>219.10	4.932	-0.001	0.000	312178	(INF)	
PFDA-13C	514.80>469.95	----	4.932	-0.001	-0.185	179008	----	
PFDA-13C_IS	514.80>469.95	----	4.932	-0.001	----	179008	----	
PFUnA	563.00>518.90	563.00>219.00	5.117	-0.001	0.000	2024	1794	
PFUnA-13C	564.80>519.95	----	5.117	-0.001	0.000	1645	----	
PFUnA-13C_IS	564.80>519.95	----	5.117	-0.001	----	1645	----	
PFDoA	613.05>569.00	613.05>169.00	5.297	0.001	0.000	(INF)	(INF)	
PFDoA-13C	614.80>569.95	----	5.297	0.000	0.180	(INF)	----	
PFDoA-13C_IS	614.80>569.95	----	5.297	0.000	----	(INF)	----	
PFTrDA	663.00>618.90	662.90>169.00	5.460	-0.003	-0.146	(INF)	(INF)	
PFTeDA	713.00>669.00	713.00>169.10	5.606	-0.005	0.000	59998	21663	
PFTeDA-13C	714.70>669.90	----	5.606	-0.005	0.489	27456	----	
PFTeDA-13C_IS	714.70>669.90	----	5.606	-0.005	----	28172	----	
FOSA	498.20>78.00	498.20>64.10	5.220	0.002	0.000	(INF)	(INF)	
FOSA-13C	506.00>78.05	----	5.220	0.001	0.103	1232	----	
FOSA-13C_IS	506.00>78.05	----	5.220	0.001	----	1232	----	
N-MeFOSA	512.00>169.10	512.00>219.00	5.605	-0.004	0.002	8300	(INF)	
N-MeFOSA-d3	514.90>168.90	----	5.603	-0.003	0.486	1181	----	
N-MeFOSA-d3_IS	514.90>168.90	----	5.603	-0.003	----	1181	----	

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SN - Software-calculated S/N ratio outside criteria due to non-target peaks or drift in noise calculation window. Analyst review of noise levels (excluding non-target peaks) in chromatogram indicates S/N ratio meets criteria.

Insight Report
Retention Time/Signal:Noise Ratio Confirmation
Printed 9/9/2021 16:28:51

210909_015 (continued)

(Table continued from previous page)

Name	m/z	Ref 1 m/z	Found RT	RT Diff	ISTD RT Diff	S/N	Ref 1 S/N	Flag ID
N-EtFOSA	526.90>169.10	526.90>219.00	5.730	-0.004	0.005	(INF)	(INF)	
N-EtFOSA-d9	530.90>169.15	----	5.725	-0.005	0.608	1972	----	
N-EtFOSA-d9_IS	530.90>169.15	----	5.725	-0.005	----	1972	----	
N-MeFOSE	616.00>59.00	----	5.586	-0.004	0.007	(INF)	----	
N-MeFOSE-d7	622.70>59.10	----	5.579	-0.004	0.462	1241	----	
N-MeFOSE-d7_IS	622.70>59.10	----	5.579	-0.004	----	1241	----	
N-EtFOSE	630.00>58.90	----	5.707	-0.004	0.010	37585	----	
N-EtFOSE-d9	638.70>59.10	----	5.697	-0.004	0.580	1187	----	
N-EtFOSE-d9_IS	638.70>59.10	----	5.697	-0.004	----	1187	----	
N-MeFOSAA	570.20>419.00	570.20>512.00	5.031	-0.002	0.002	1979	912	
N-MeFOSAA-d3	572.80>419.05	----	5.029	-0.001	-0.088	33409	----	
N-MeFOSAA-d3_IS	572.80>419.05	----	5.029	-0.001	----	33409	----	
N-EtFOSAA	584.20>418.95	584.20>526.10	5.132	0.000	0.003	1665	390	
N-EtFOSAA-d5	588.80>419.00	----	5.129	0.001	0.012	6534	----	
N-EtFOSAA-d5_IS	588.80>419.00	----	5.129	0.001	----	6534	----	
4_2-FTS_1	327.00>307.05	327.00>81.10	4.200	-0.003	0.000	611203	(INF)	
4_2-FTS-13C	328.80>309.05	----	4.200	-0.004	-0.917	(INF)	----	
4_2-FTS-13C_IS	328.80>309.05	----	4.200	-0.004	----	(INF)	----	
6_2-FTS_1	427.00>407.00	427.00>80.90	4.562	-0.005	-0.001	(INF)	(INF)	
6_2-FTS-13C	428.90>409.00	----	4.563	-0.005	-0.554	(INF)	----	
6_2-FTS-13C_IS	428.90>409.00	----	4.563	-0.005	----	(INF)	----	
8_2-FTS_1	527.10>506.90	527.20>487.00	4.931	0.001	0.000	482645	(INF)	
8_2-FTS-13C	528.80>509.00	----	4.931	-0.001	-0.186	(INF)	----	
8_2-FTS-13C_IS	528.80>509.00	----	4.931	-0.001	----	(INF)	----	
10_2-FtS_1	627.00>606.95	627.00>81.25	5.304	0.001	0.373	(INF)	(INF)	
HPFO_DA	329.00>169.00	329.00>285.10	4.293	-0.003	0.000	118771	25364	
HFPO_DA-13C	332.00>286.80	----	4.293	-0.003	-0.824	119541	----	
HFPO_DA-13C_IS	332.00>286.80	----	4.293	-0.003	----	119541	----	

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SN - Software-calculated S/N ratio outside criteria due to non-target peaks or drift in noise calculation window. Analyst review of noise levels (excluding non-target peaks) in chromatogram indicates S/N ratio meets criteria.

Insight Report
Ion Ratio Confirmation
Printed 9/9/2021 16:29:39

210909_015

Sample ID: PFC ICAL @ 15ppb
Date Acquired: 9/9/2021 3:08:08 PM
Acquired by: System Administrator
Data File: 210909_015
Vial: 7 | Inj. Volume: 15.0000uL | Tray: 0

Name	m/z	Ref 1 m/z	Area	Ref 1 Measured	Ref 1 Actual Ratio	Ref 1 Set Ratio	Comment 1	Flag ID
13C7-PFUnDA_IS	570.00>525.00	----	4288983	----	----	----		
PFBS_1	299.00>80.00	298.80>99.00	2268351	1124406	49.57	49.34	24.67-74.01	
PFBS-13C	301.80>80.00	----	491494	----	----	----	0-0	
PFBS-13C_IS	301.80>80.00	----	491494	----	----	----	0-0	
PFPeS	349.00>99.00	349.00>79.95	970273	1468361	151.34	151.30	75.65 -226.95	
PFHxS_1	399.00>80.00	399.00>99.00	1576979	993875	63.02	62.92	31.46-94.38	
PFHxS-18O	402.70>84.05	----	350033	----	----	----	0-0	
PFHxS-18O_IS	402.70>84.05	----	350033	----	----	----	0-0	
PFHpS_1	449.00>80.15	449.00>99.20	1714583	710315	41.43	40.53	20.26-60.79	
PFOS_1	499.00>80.00	499.00>99.00	1294468	963619	74.44	73.81	36.91 -110.72	
PFOS-13C	502.80>80.05	----	468151	----	----	----	0-0	
PFOS-13C_IS	502.80>80.05	----	468151	----	----	----	0-0	
PFNS	549.00>99.00	549.00>79.95	938292	1504988	160.40	160.25	80.13 -240.38	
PFDS_1	599.00>79.90	599.00>99.10	1611989	1131735	70.21	72.12	36.06 -108.19	
PFBA	213.00>169.10	----	6519349	----	----	----		
PFBA-13C	216.90>172.15	----	1849621	----	----	----		
PFBA-13C_IS	216.90>172.15	----	1849621	----	----	----		
PFPeA	263.05>219.10	----	9613538	----	----	----		
PFPeA-13C	267.90>223.00	----	1034875	----	----	----	0-0	
PFPeA-13C_IS	267.90>223.00	----	1034875	----	----	----	0-0	
PFHxA	313.00>269.00	313.00>119.10	11575371	434410	3.75	4.40	2.2-6.61	
PFHxA-13C	314.90>270.10	----	2988268	----	----	----	0-0	
PFHxA-13C_IS	314.90>270.10	----	2988268	----	----	----	0-0	
PFHpA	362.90>319.00	362.90>169.00	9612361	2422432	25.20	24.40	12.2-36.6	
PFHpA-13C	366.90>322.10	----	2666151	----	----	----	0-0	
PFHpA-13C_IS	366.90>322.10	----	2666151	----	----	----	0-0	
PFOA	413.00>369.00	413.00>169.10	13120582	4023705	30.67	31.89	15.94-47.83	
PFOA-13C	416.80>372.05	----	3271337	----	----	----	0-0	
PFOA-13C_IS	416.80>372.05	----	3271337	----	----	----	0-0	
PFNA	463.00>418.90	463.00>219.00	9529133	2341358	24.57	23.25	11.63-34.88	
PFNA-13C	467.80>423.00	----	2947766	----	----	----	0-0	
PFNA-13C_IS	467.80>423.00	----	2947766	----	----	----	0-0	
PFDA	513.00>468.80	513.00>219.10	8299388	1664198	20.05	20.24	10.12-30.36	
PFDA-13C	514.80>469.95	----	1974139	----	----	----	0-0	
PFDA-13C_IS	514.80>469.95	----	1974139	----	----	----	0-0	
PFUnA	563.00>518.90	563.00>219.00	9966879	1297843	13.02	12.46	6.23-18.69	
PFUnA-13C	564.80>519.95	----	2950622	----	----	----	0-0	
PFUnA-13C_IS	564.80>519.95	----	2950622	----	----	----	0-0	
PFDoA	613.05>569.00	613.05>169.00	9089176	1608020	17.69	16.50	8.25-24.76	
PFDoA-13C	614.80>569.95	----	3362164	----	----	----	0-0	
PFDoA-13C_IS	614.80>569.95	----	3362164	----	----	----	0-0	
PFTrDA	663.00>618.90	662.90>169.00	10593079	1649225	15.57	15.29	7.65-22.94	
PFTeDA	713.00>669.00	713.00>169.10	11137426	1832975	16.46	17.47	8.73-26.2	
PFTeDA-13C	714.70>669.90	----	3365350	----	----	----	0-0	
PFTeDA-13C_IS	714.70>669.90	----	3365350	----	----	----	0-0	
FOSA	498.20>78.00	498.20>64.10	5192373	265520	5.11	5.19	2.6-7.79	
FOSA-13C	506.00>78.05	----	1430711	----	----	----	0-0	

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Comment 1 field specifies acceptance range for Ref 1 ratio.
IRr - Ion ratio outside criteria. Exceedances for results above the MDL to be "K" flagged in the analytical report.

Insight Report
Ion Ratio Confirmation
Printed 9/9/2021 16:29:39

210909_015 (continued)

(Table continued from previous page)

Name	m/z	Ref 1 m/z	Area	Ref 1 Measured	Ref 1 Actual Ratio	Ref 1 Set Ratio	Comment 1	Flag ID
FOSA-13C_IS	506.00>78.05	----	1430711	----	----	----	0-0	
N-MeFOSA	512.00>169.10	512.00>219.00	1893508	1318898	69.65	69.94	34.97 -104.91	
N-MeFOSA-d3	514.90>168.90	----	330231	----	----	----	0-0	
N-MeFOSA-d3_IS	514.90>168.90	----	330231	----	----	----	0-0	
N-EtFOSA	526.90>169.10	526.90>219.00	347712	253226	72.83	66.52	33.26-99.77	
N-EtFOSA-d9	530.90>169.15	----	389716	----	----	----	0-0	
N-EtFOSA-d9_IS	530.90>169.15	----	389716	----	----	----	0-0	
N-MeFOSE	616.00>59.00	----	2733117	----	----	----		
N-MeFOSE-d7	622.70>59.10	----	509693	----	----	----		
N-MeFOSE-d7_IS	622.70>59.10	----	509693	----	----	----		
N-EtFOSE	630.00>58.90	----	2526775	----	----	----		
N-EtFOSE-d9	638.70>59.10	----	490109	----	----	----	0-0	
N-EtFOSE-d9_IS	638.70>59.10	----	490109	----	----	----	0-0	
N-MeFOSAA	570.20>419.00	570.20>512.00	1496269	627829	41.96	39.56	19.78-59.34	
N-MeFOSAA-d3	572.80>419.05	----	587788	----	----	----	0-0	
N-MeFOSAA-d3_IS	572.80>419.05	----	587788	----	----	----	0-0	
N-EtFOSAA	584.20>418.95	584.20>526.10	1046895	942257	90.01	84.54	42.27 -126.81	
N-EtFOSAA-d5	588.80>419.00	----	451092	----	----	----	0-0	
N-EtFOSAA-d5_IS	588.80>419.00	----	451092	----	----	----	0-0	
4_2-FTS_1	327.00>307.05	327.00>81.10	1312683	404345	30.80	34.12	17.06-51.19	
4_2-FTS-13C	328.80>309.05	----	559895	----	----	----	0-0	
4_2-FTS-13C_IS	328.80>309.05	----	559895	----	----	----	0-0	
6_2-FTS_1	427.00>407.00	427.00>80.90	1408789	506061	35.92	37.36	18.68-56.04	
6_2-FTS-13C	428.90>409.00	----	412085	----	----	----	0-0	
6_2-FTS-13C_IS	428.90>409.00	----	412085	----	----	----	0-0	
8_2-FTS_1	527.10>506.90	527.20>487.00	759834	87947	11.58	10.63	5.32-15.95	
8_2-FTS-13C	528.80>509.00	----	297772	----	----	----	0-0	
8_2-FTS-13C_IS	528.80>509.00	----	297772	----	----	----	0-0	
10_2-FtS_1	627.00>606.95	627.00>81.25	668823	145035	21.69	21.61	10.8-32.41	
HPFO_DA	329.00>169.00	329.00>285.10	1593191	1600912	100.49	106.46	53.23 -159.68	
HFPO_DA-13C	332.00>286.80	----	511584	----	----	----		
HFPO_DA-13C_IS	332.00>286.80	----	511584	----	----	----		

J:\LCMS06\Data\210909_Curve\210909_Curve.DAMLP .

Comment 1 field specifies acceptance range for Ref 1 ratio.
IRr - Ion ratio outside criteria. Exceedances for results above the MDL to be "K" flagged in the analytical report.

Insight Report
Quantitation/Integration
Printed 9/9/2021 16:33:46

210909_015

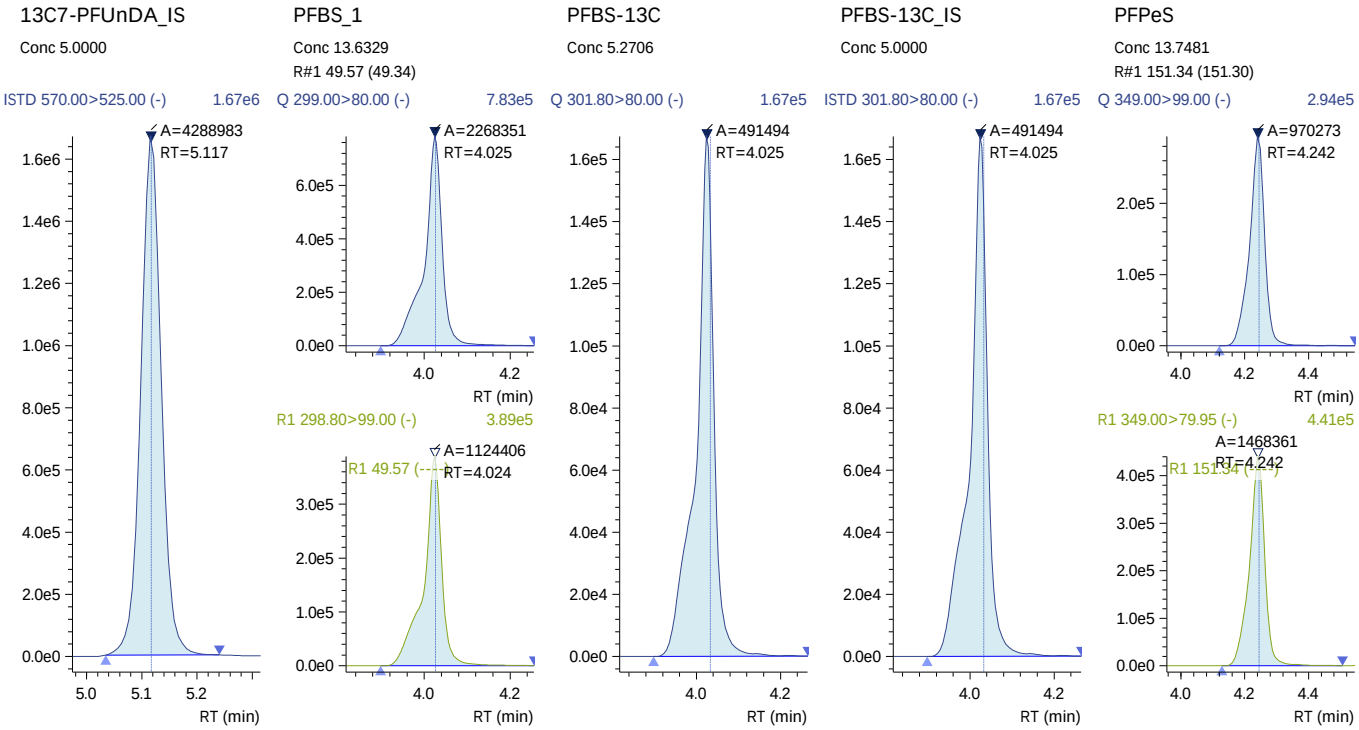
Sample ID: PFC ICAL @ 15ppb
Date Acquired: 9/9/2021 3:08:08 PM
Acquired by: System Administrator
Data File: 210909_015
Vial: 7 | Inj. Volume: 15.0000uL | Tray: 0

Name	Mode ID	Found RT	Area	ISTD Area	ISTD Name	Std. Conc.	Conc.	Unit
13C7-PFUnDA_IS	Auto	5.117	4288983	4288983	----	5.0000	5.0000	ng/mL
PFBS_1	Auto	4.025	2268351	491494	PFBS-13C_IS	13.3106	13.6329	ng/mL
PFBS-13C	Auto	4.025	491494	4288983	13C7-PFUnDA_IS	5.0000	5.2706	ng/mL
PFBS-13C_IS	Auto	4.025	491494	491494	----	5.0000	5.0000	ng/mL
PFPeS	Auto	4.242	970273	491494	PFBS-13C_IS	14.1138	13.7481	ng/mL
PFHxS_1	Auto	4.404	1576979	350033	PFHxS-18O_IS	13.6961	14.0295	ng/mL
PFHxS-18O	Auto	4.407	350033	4288983	13C7-PFUnDA_IS	5.0000	5.2627	ng/mL
PFHxS-18O_IS	Auto	4.407	350033	350033	----	5.0000	5.0000	ng/mL
PFHpS_1	Auto	4.566	1714583	350033	PFHxS-18O_IS	14.3016	14.2563	ng/mL
PFOS_1	Auto	4.735	1294468	468151	PFOS-13C_IS	13.9385	14.7746	ng/mL
PFOS-13C	Auto	4.736	468151	4288983	13C7-PFUnDA_IS	5.0000	5.1506	ng/mL
PFOS-13C_IS	Auto	4.736	468151	468151	----	5.0000	5.0000	ng/mL
PFNS	Auto	4.913	938292	468151	PFOS-13C_IS	14.4237	14.7467	ng/mL
PFDS_1	Auto	5.094	1611989	468151	PFOS-13C_IS	14.4700	14.6254	ng/mL
PFBA	Auto	3.413	6519349	1849621	PFBA-13C_IS	15.0000	15.2162	ng/mL
PFBA-13C	Auto	3.412	1849621	4288983	13C7-PFUnDA_IS	5.0000	5.5287	ng/mL
PFBA-13C_IS	Auto	3.412	1849621	1849621	----	5.0000	5.0000	ng/mL
PFPeA	Auto	3.972	9613538	1034875	PFPeA-13C_IS	15.0000	15.2456	ng/mL
PFPeA-13C	Auto	3.971	1034875	4288983	13C7-PFUnDA_IS	5.0000	5.4126	ng/mL
PFPeA-13C_IS	Auto	3.971	1034875	1034875	----	5.0000	5.0000	ng/mL
PFHxA	Auto	4.227	11575371	2988268	PFHxA-13C_IS	15.0000	14.8249	ng/mL
PFHxA-13C	Auto	4.227	2988268	4288983	13C7-PFUnDA_IS	5.0000	5.5080	ng/mL
PFHxA-13C_IS	Auto	4.227	2988268	2988268	----	5.0000	5.0000	ng/mL
PFHpA	Auto	4.407	9612361	2666151	PFHpA-13C_IS	15.0000	14.9437	ng/mL
PFHpA-13C	Auto	4.407	2666151	4288983	13C7-PFUnDA_IS	5.0000	5.4188	ng/mL
PFHpA-13C_IS	Auto	4.407	2666151	2666151	----	5.0000	5.0000	ng/mL
PFOA	Auto	4.575	13120582	3271337	PFOA-13C_IS	15.0000	14.6282	ng/mL
PFOA-13C	Auto	4.575	3271337	4288983	13C7-PFUnDA_IS	5.0000	4.9734	ng/mL
PFOA-13C_IS	Auto	4.575	3271337	3271337	----	5.0000	5.0000	ng/mL
PFNA	Auto	4.750	9529133	2947766	PFNA-13C_IS	15.0000	15.6325	ng/mL
PFNA-13C	Auto	4.750	2947766	4288983	13C7-PFUnDA_IS	5.0000	5.2016	ng/mL
PFNA-13C_IS	Auto	4.750	2947766	2947766	----	5.0000	5.0000	ng/mL
PFDA	Auto	4.932	8299388	1974139	PFDA-13C_IS	15.0000	14.9128	ng/mL
PFDA-13C	Auto	4.932	1974139	4288983	13C7-PFUnDA_IS	5.0000	5.0104	ng/mL
PFDA-13C_IS	Auto	4.932	1974139	1974139	----	5.0000	5.0000	ng/mL
PFUnA	Auto	5.117	9966879	2950622	PFUnA-13C_IS	15.0000	15.2618	ng/mL
PFUnA-13C	Auto	5.117	2950622	4288983	13C7-PFUnDA_IS	5.0000	4.9666	ng/mL
PFUnA-13C_IS	Auto	5.117	2950622	2950622	----	5.0000	5.0000	ng/mL
PFDoA	Auto	5.297	9089176	3362164	PFDoA-13C_IS	15.0000	15.1789	ng/mL
PFDoA-13C	Auto	5.297	3362164	4288983	13C7-PFUnDA_IS	5.0000	5.1308	ng/mL
PFDoA-13C_IS	Auto	5.297	3362164	3362164	----	5.0000	5.0000	ng/mL
PFTrDA	Auto	5.460	10593079	3365350	PFTeDA-13C_IS	15.0000	15.4168	ng/mL
PFTeDA	Auto	5.606	11137426	3365350	PFTeDA-13C_IS	15.0000	14.9470	ng/mL
PFTeDA-13C	Auto	5.606	3365350	4288983	13C7-PFUnDA_IS	5.0000	5.1184	ng/mL
PFTeDA-13C_IS	Auto	5.606	3365350	3365350	----	5.0000	5.0000	ng/mL
FOSA	Auto	5.220	5192373	1430711	FOSA-13C_IS	15.0000	15.1329	ng/mL
FOSA-13C	Auto	5.220	1430711	4288983	13C7-PFUnDA_IS	5.0000	5.2445	ng/mL
FOSA-13C_IS	Auto	5.220	1430711	1430711	----	5.0000	5.0000	ng/mL
N-MeFOSA	Auto	5.605	1893508	330231	N-MeFOSA-d3_IS	15.0000	15.0609	ng/mL
N-MeFOSA-d3	Auto	5.603	330231	4288983	13C7-PFUnDA_IS	5.0000	5.3950	ng/mL
N-MeFOSA-d3_IS	Auto	5.603	330231	330231	----	5.0000	5.0000	ng/mL
N-EtFOSA	Auto	5.730	347712	389716	N-EtFOSA-d9_IS	15.0000	14.7209	ng/mL
N-EtFOSA-d9	Auto	5.725	389716	4288983	13C7-PFUnDA_IS	5.0000	5.4652	ng/mL
N-EtFOSA-d9_IS	Auto	5.725	389716	389716	----	5.0000	5.0000	ng/mL

210909_015 (continued)

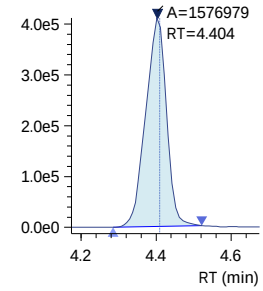
(Table continued from previous page)

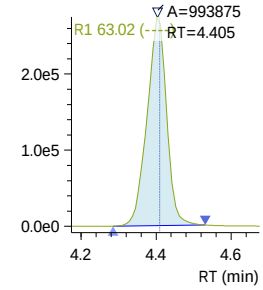
Name	Mode ID	Found RT	Area	ISTD Area	ISTD Name	Std. Conc.	Conc.	Unit
N-MeFOSE	Auto	5.586	2733117	509693	N-MeFOSE-d7_IS	15.0000	14.9179	ng/mL
N-MeFOSE-d7	Auto	5.579	509693	4288983	13C7-PFUnDA_IS	5.0000	5.4077	ng/mL
N-MeFOSE-d7_IS	Auto	5.579	509693	509693	----	5.0000	5.0000	ng/mL
N-EtFOSE	Auto	5.707	2526775	490109	N-EtFOSE-d9_IS	15.0000	14.8746	ng/mL
N-EtFOSE-d9	Auto	5.697	490109	4288983	13C7-PFUnDA_IS	5.0000	5.4910	ng/mL
N-EtFOSE-d9_IS	Auto	5.697	490109	490109	----	5.0000	5.0000	ng/mL
N-MeFOSAA	Auto	5.031	1496269	587788	N-MeFOSAA-d3_IS	15.0000	15.2172	ng/mL
N-MeFOSAA-d3	Auto	5.029	587788	4288983	13C7-PFUnDA_IS	5.0000	5.4283	ng/mL
N-MeFOSAA-d3_IS	Auto	5.029	587788	587788	----	5.0000	5.0000	ng/mL
N-EtFOSAA	Auto	5.132	1046895	451092	N-EtFOSAA-d5_IS	15.0000	15.2770	ng/mL
N-EtFOSAA-d5	Auto	5.129	451092	4288983	13C7-PFUnDA_IS	5.0000	4.9265	ng/mL
N-EtFOSAA-d5_IS	Auto	5.129	451092	451092	----	5.0000	5.0000	ng/mL
4_2-FTS_1	Auto	4.200	1312683	559895	4_2-FTS-13C_IS	14.0583	12.9843	ng/mL
4_2-FTS-13C	Auto	4.200	559895	4288983	13C7-PFUnDA_IS	5.0000	5.5170	ng/mL
4_2-FTS-13C_IS	Auto	4.200	559895	559895	----	5.0000	5.0000	ng/mL
6_2-FTS_1	Auto	4.562	1408789	412085	6_2-FTS-13C_IS	14.2676	13.1019	ng/mL
6_2-FTS-13C	Auto	4.563	412085	4288983	13C7-PFUnDA_IS	5.0000	4.8060	ng/mL
6_2-FTS-13C_IS	Auto	4.563	412085	412085	----	5.0000	5.0000	ng/mL
8_2-FTS_1	Auto	4.931	759834	297772	8_2-FTS-13C_IS	14.4007	13.3560	ng/mL
8_2-FTS-13C	Auto	4.931	297772	4288983	13C7-PFUnDA_IS	5.0000	4.7772	ng/mL
8_2-FTS-13C_IS	Auto	4.931	297772	297772	----	5.0000	5.0000	ng/mL
10_2-FtS_1	Auto	5.304	668823	297772	8_2-FTS-13C_IS	14.4929	14.4816	ng/mL
HPFO_DA	Auto	4.293	1593191	511584	HFPO_DA-13C_IS	15.0000	15.5777	ng/mL
HFPO_DA-13C	Auto	4.293	511584	4288983	13C7-PFUnDA_IS	5.0000	5.5664	ng/mL
HFPO_DA-13C_IS	Auto	4.293	511584	511584	----	5.0000	5.0000	ng/mL

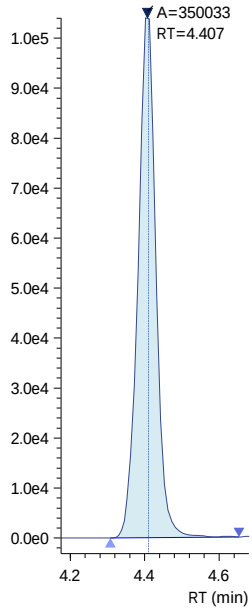


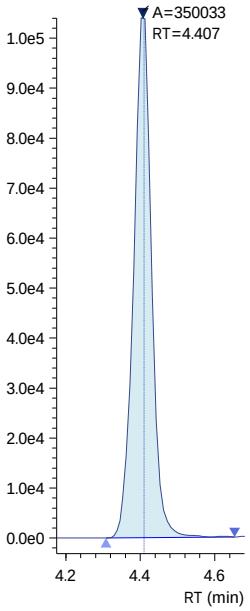
Insight Report
Quantitation/Integration
Printed 9/9/2021 16:33:46

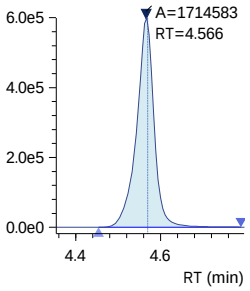
210909_015 (continued)

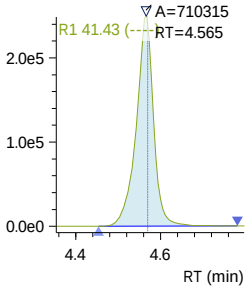
PFHxS_1
Conc 14.0295
R#1 63.02 (62.92)
Q 399.00>80.00 (-) 4.12e5


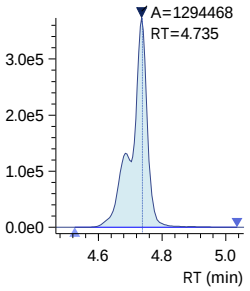
R1 399.00>99.00 (-) 2.75e5


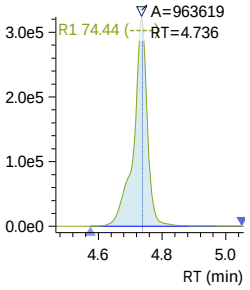
PFHxS-18O
Conc 5.2627
Q 402.70>84.05 (-) 1.04e5


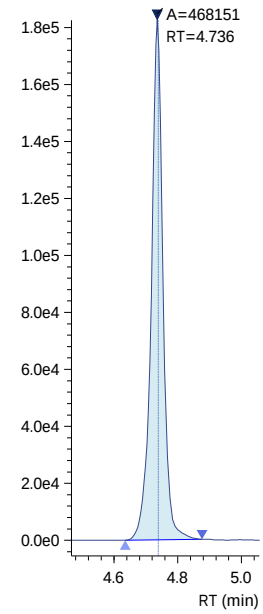
PFHxS-18O_IS
Conc 5.0000
ISTD 402.70>84.05 (-) 1.04e5


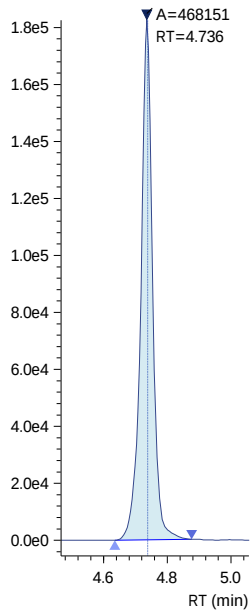
PFHpS_1
Conc 14.2563
R#1 41.43 (40.53)
Q 449.00>80.15 (-) 5.99e5


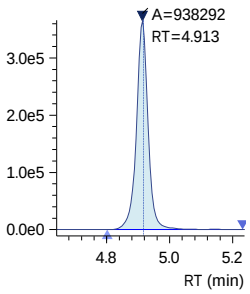
R1 449.00>99.20 (-) 2.49e5


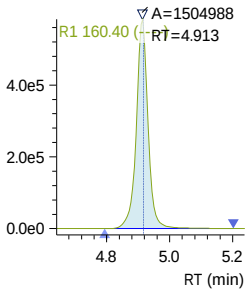
PFOS_1
Conc 14.7746
R#1 74.44 (73.81)
Q 499.00>80.00 (-) 3.73e5


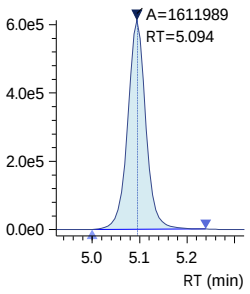
R1 499.00>99.00 (-) 3.24e5


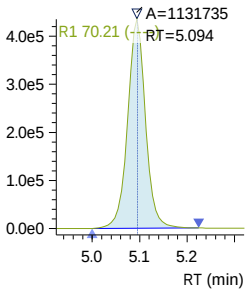
PFOS-13C
Conc 5.1506
Q 502.80>80.05 (-) 1.83e5


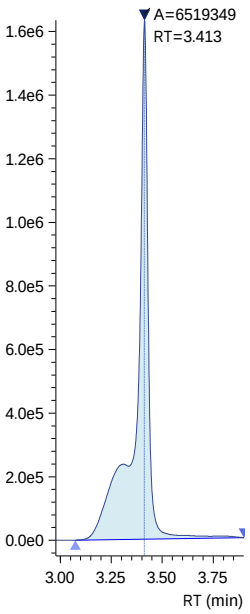
PFOS-13C_IS
Conc 5.0000
ISTD 502.80>80.05 (-) 1.83e5


PFNS
Conc 14.7467
R#1 160.40 (160.25)
Q 549.00>99.00 (-) 3.66e5


R1 549.00>79.95 (-) 5.83e5


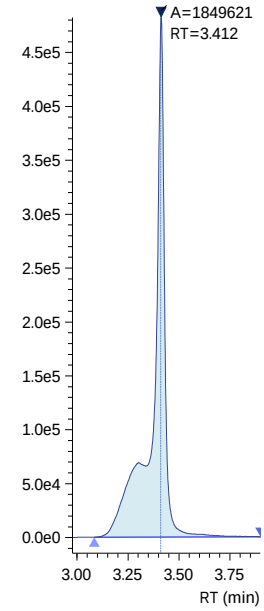
PFDS_1
Conc 14.6254
R#1 70.21 (72.12)
Q 599.00>79.90 (-) 6.13e5


R1 599.00>99.10 (-) 4.35e5


PFBA
Conc 15.2162
Q 213.00>169.10 (-) 1.64e6


210909_015 (continued)

PFBA-13C
Conc 5.5287
Q 216.90>172.15 (-) 4.82e5



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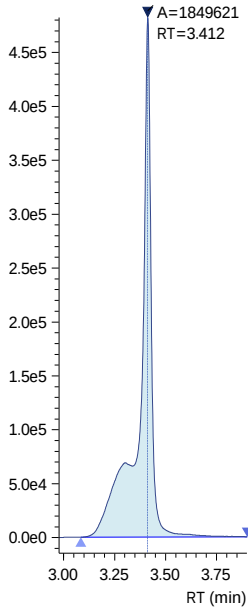
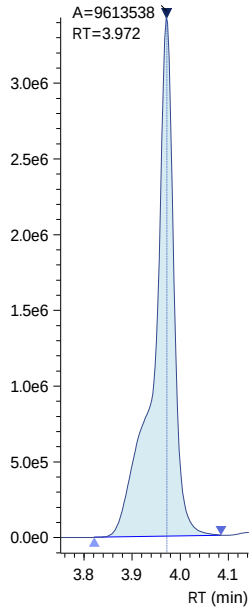
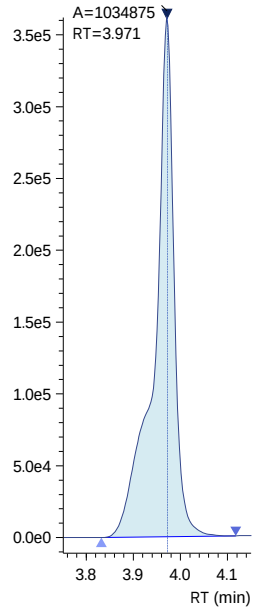
ISTD 216.90>172.15 (-) 4.82e5



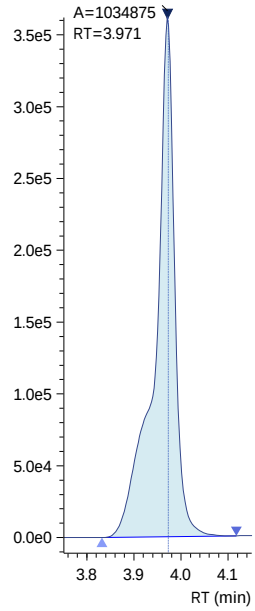
PFPeA
Conc 15.2456
Q 263.05>219.10 (-) 3.43e6



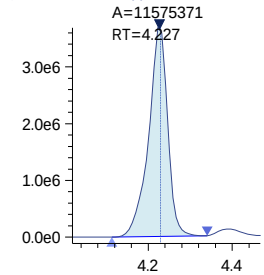
PFPeA-13C
Conc 5.4126
Q 267.90>223.00 (-) 3.62e5



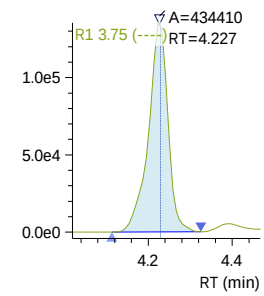
PFPeA-13C_IS
Conc 5.0000
ISTD 267.90>223.00 (-) 3.62e5



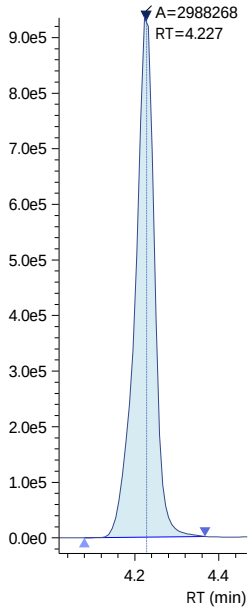
PFHxA
Conc 14.8249
R#1 3.75 (4.40)
Q 313.00>269.00 (-) 3.69e6



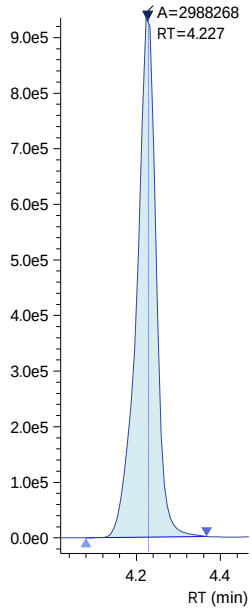
R1 313.00>119.10 (-) 1.35e5



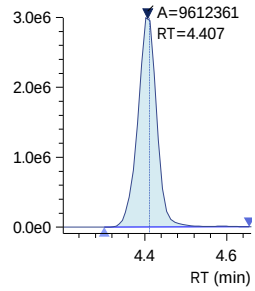
PFHxA-13C
Conc 5.5080
Q 314.90>270.10 (-) 9.36e5



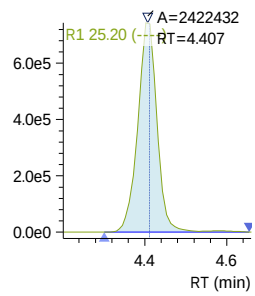
PFHxA-13C_IS
Conc 5.0000
ISTD 314.90>270.10 (-) 9.36e5



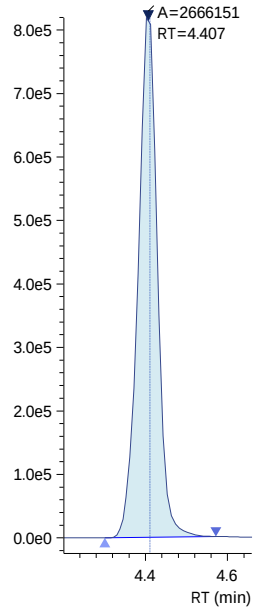
PFHpA
Conc 14.9437
R#1 25.20 (24.40)
Q 362.90>319.00 (-) 2.99e6



R1 362.90>169.00 (-) 7.44e5



PFHpA-13C
Conc 5.4188
Q 366.90>322.10 (-) 8.19e5



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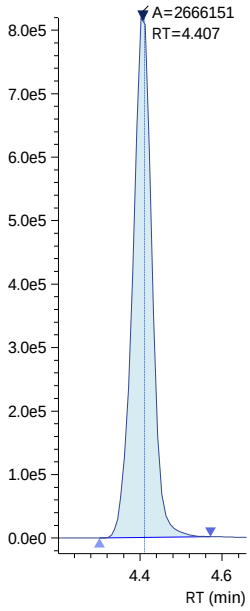
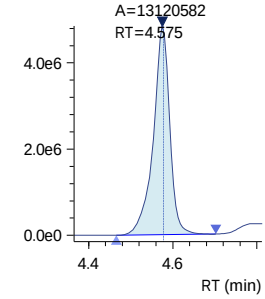
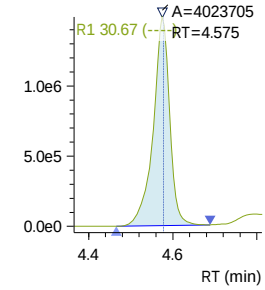
PFHpA-13C_IS
Conc 5.0000
ISTD 366.90>322.10 (-) 8.19e5



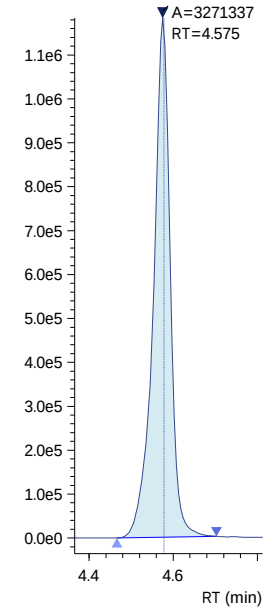
PFOA
Conc 14.6282
R#1 30.67 (31.89)
Q 413.00>369.00 (-) 4.86e6



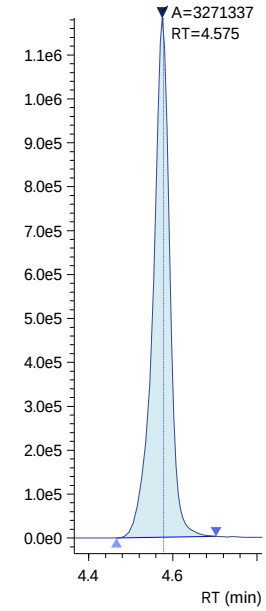
R1 413.00>169.10 (-) 1.49e6



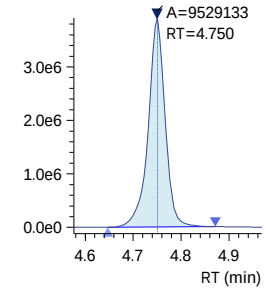
PFOA-13C
Conc 4.9734
Q 416.80>372.05 (-) 1.18e6



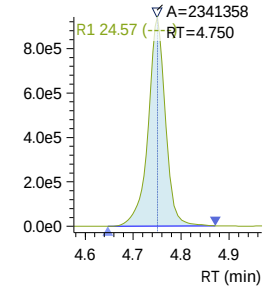
PFOA-13C_IS
Conc 5.0000
ISTD 416.80>372.05 (-) 1.18e6



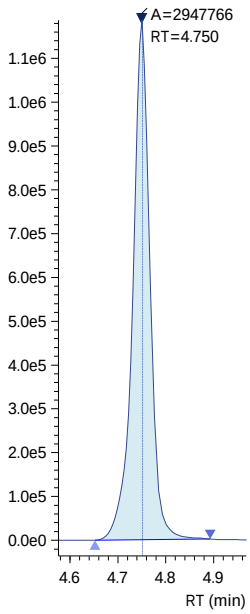
PFNA
Conc 15.6325
R#1 24.57 (23.25)
Q 463.00>418.90 (-) 3.91e6



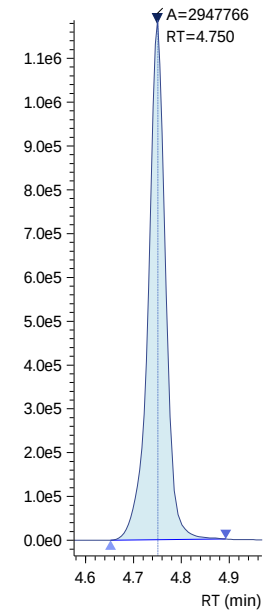
R1 463.00>219.00 (-) 9.42e5



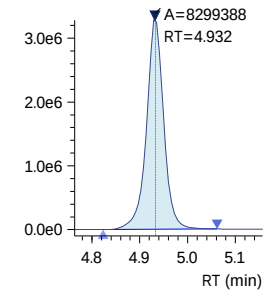
PFNA-13C
Conc 5.2016
Q 467.80>423.00 (-) 1.19e6



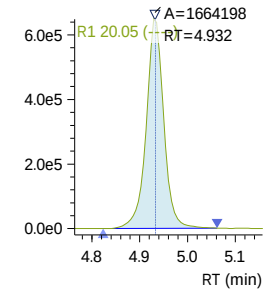
PFNA-13C_IS
Conc 5.0000
ISTD 467.80>423.00 (-) 1.19e6



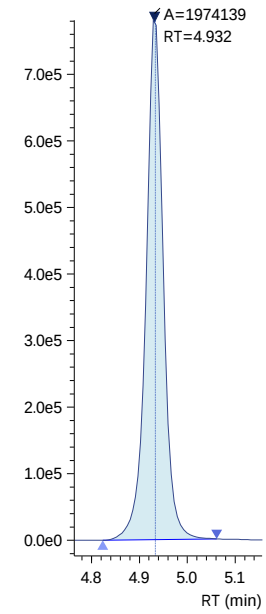
PFDA
Conc 14.9128
R#1 20.05 (20.24)
Q 513.00>468.80 (-) 3.28e6



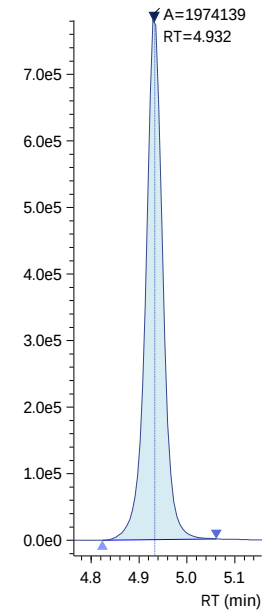
R1 513.00>219.10 (-) 6.49e5



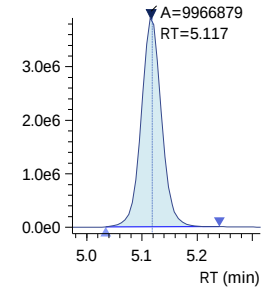
PFDA-13C
Conc 5.0104
Q 514.80>469.95 (-) 7.81e5

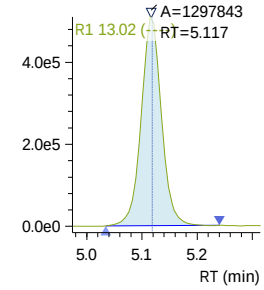


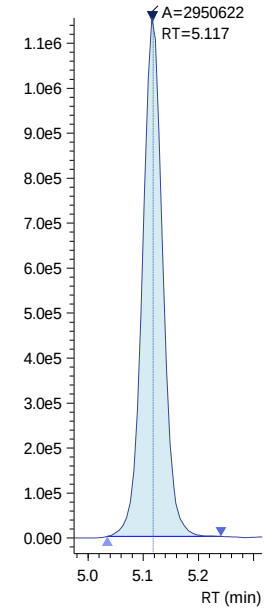
PFDA-13C_IS
Conc 5.0000
ISTD 514.80>469.95 (-) 7.81e5

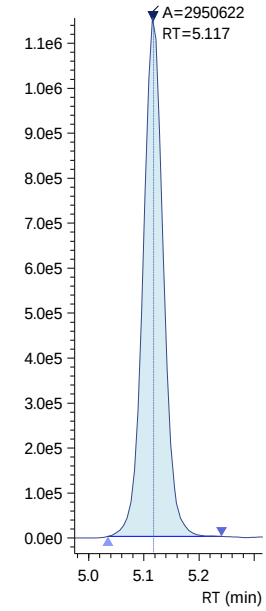


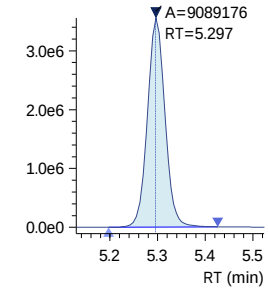
210909_015 (continued)

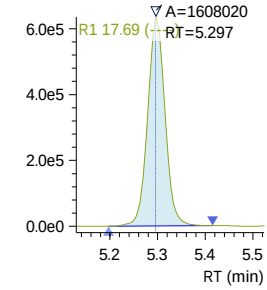
PFUnA
Conc 15.2618
R#1 13.02 (12.46)
Q 563.00>518.90 (-) 3.91e6


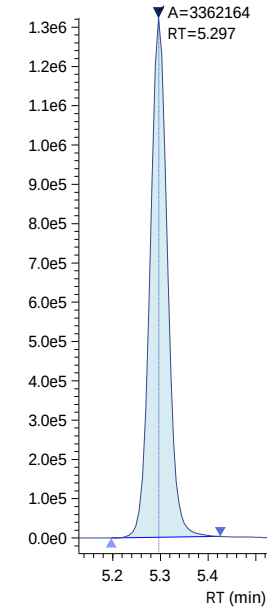
R1 563.00>219.00 (-) 5.11e5


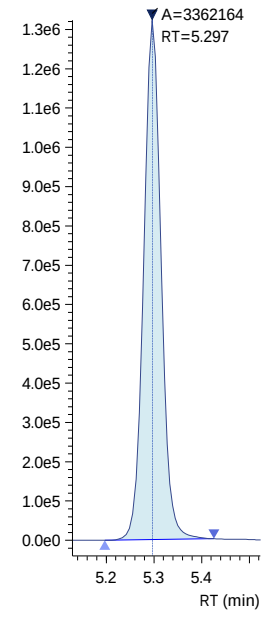
PFUnA-13C
Conc 4.9666
Q 564.80>519.95 (-) 1.16e6


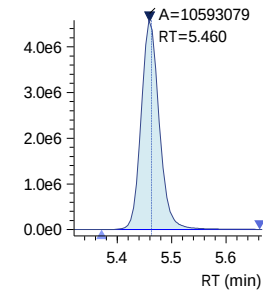
PFUnA-13C_IS
Conc 5.0000
ISTD 564.80>519.95 (-) 1.16e6


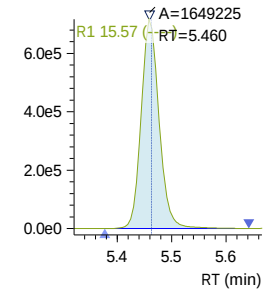
PFDoA
Conc 15.1789
R#1 17.69 (16.50)
Q 613.05>569.00 (-) 3.56e6


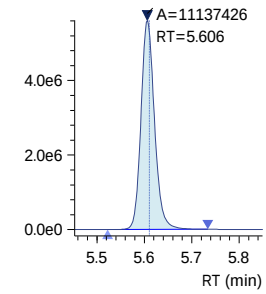
R1 613.05>169.00 (-) 6.36e5


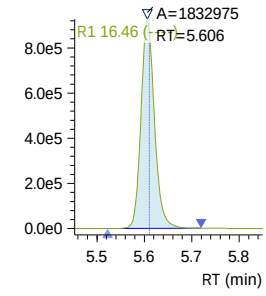
PFDoA-13C
Conc 5.1308
Q 614.80>569.95 (-) 1.32e6


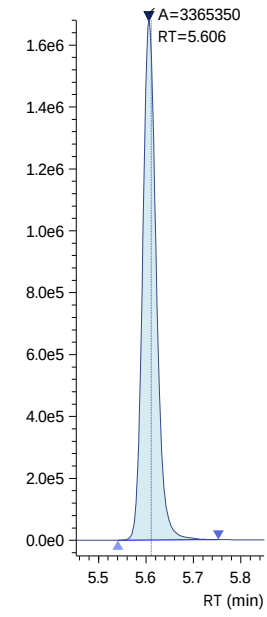
PFDoA-13C_IS
Conc 5.0000
ISTD 614.80>569.95 (-) 1.32e6


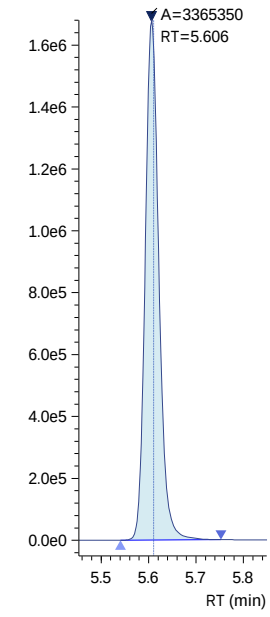
PFTrDA
Conc 15.4168
R#1 15.57 (15.29)
Q 663.00>618.90 (-) 4.58e6


R1 662.90>169.00 (-) 7.17e5


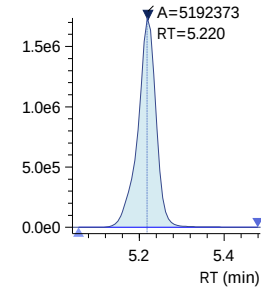
PFTeDA
Conc 14.9470
R#1 16.46 (17.47)
Q 713.00>669.00 (-) 5.62e6


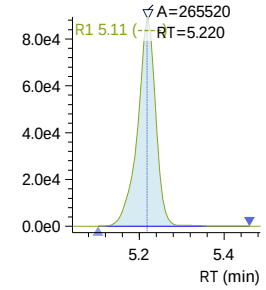
R1 713.00>169.10 (-) 9.27e5


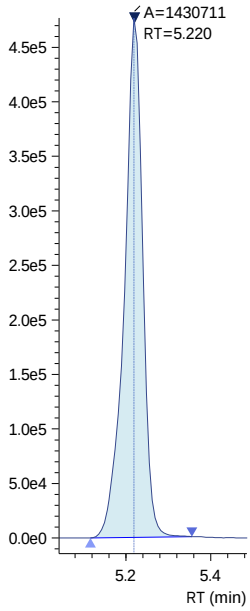
PFTeDA-13C
Conc 5.1184
Q 714.70>669.90 (-) 1.68e6


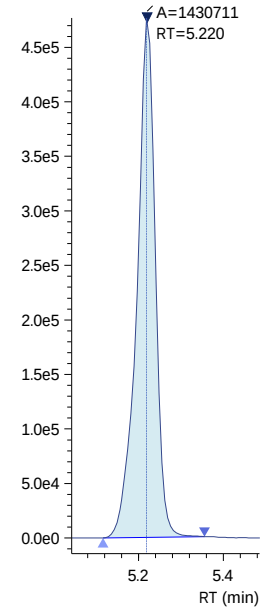
PFTeDA-13C_IS
Conc 5.0000
ISTD 714.70>669.90 (-) 1.68e6


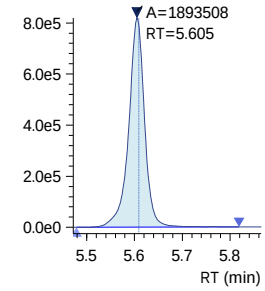
210909_015 (continued)

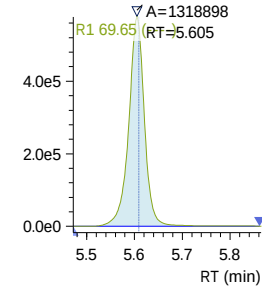
FOSA
Conc 15.1329
R#1 5.11 (5.19)
Q 498.20>78.00 (-) 1.74e6


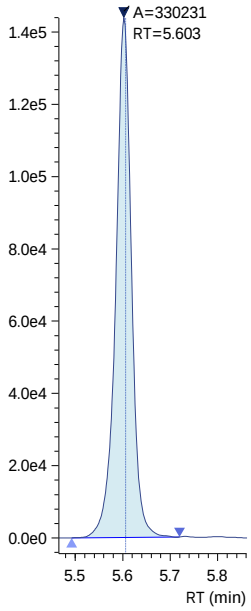
R1 498.20>64.10 (-) 8.94e4


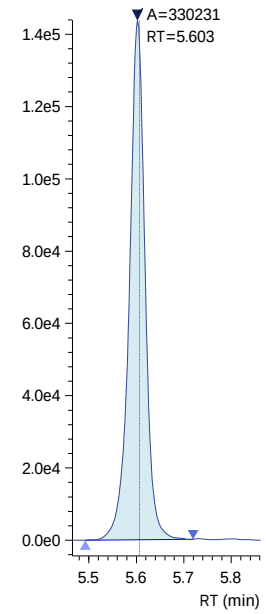
FOSA-13C
Conc 5.2445
Q 506.00>78.05 (-) 4.77e5


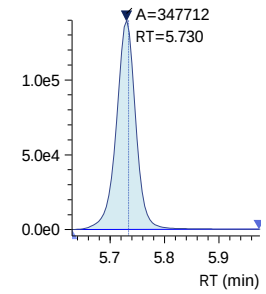
FOSA-13C_IS
Conc 5.0000
ISTD 506.00>78.05 (-) 4.77e5


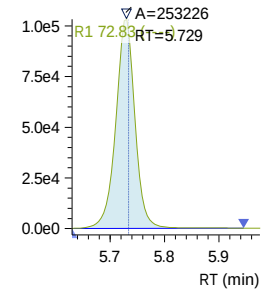
N-MeFOSA
Conc 15.0609
R#1 69.65 (69.94)
Q 512.00>169.10 (-) 8.20e5


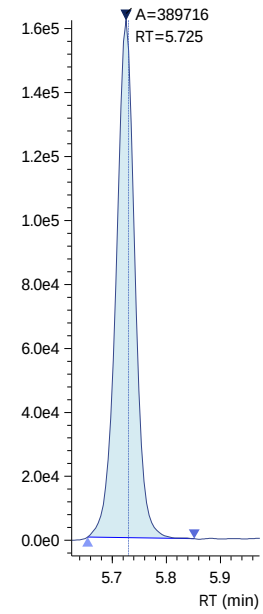
R1 512.00>219.00 (-) 5.77e5


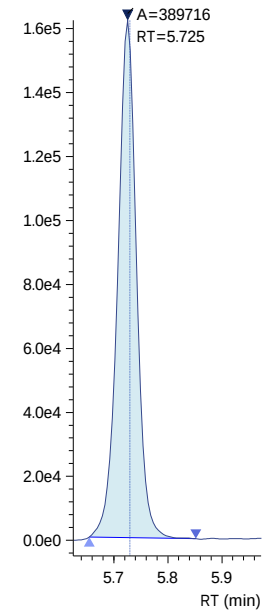
N-MeFOSA-d3
Conc 5.3950
Q 514.90>168.90 (-) 1.44e5


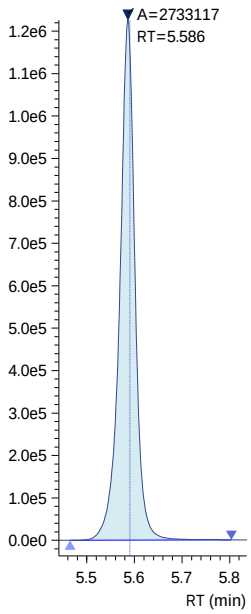
N-MeFOSA-d3_IS
Conc 5.0000
ISTD 514.90>168.90 (-) 1.44e5


N-EtFOSA
Conc 14.7209
R#1 72.83 (66.52)
Q 526.90>169.10 (-) 1.40e5


R1 526.90>219.00 (-) 1.03e5


N-EtFOSA-d9
Conc 5.4652
Q 530.90>169.15 (-) 1.63e5


N-EtFOSA-d9_IS
Conc 5.0000
ISTD 530.90>169.15 (-) 1.63e5


N-MeFOSE
Conc 14.9179
Q 616.00>59.00 (-) 1.23e6


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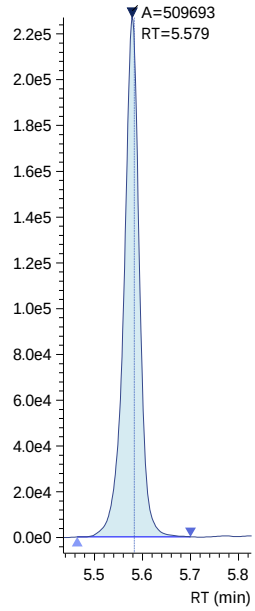
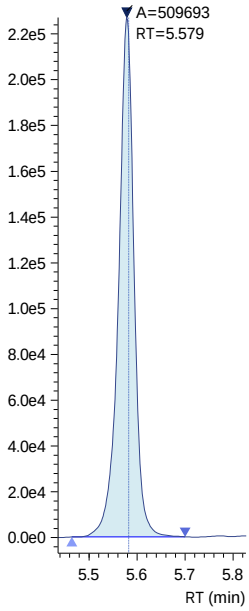
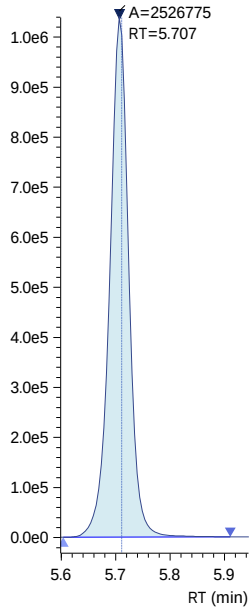
N-MeFOSE-d7
Conc 5.4077
Q 622.70>59.10 (-) 2.27e5



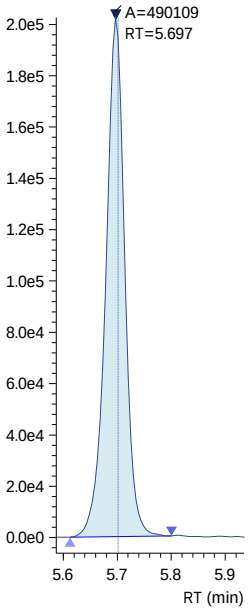
N-MeFOSE-d7_IS
Conc 5.0000
ISTD 622.70>59.10 (-) 2.27e5



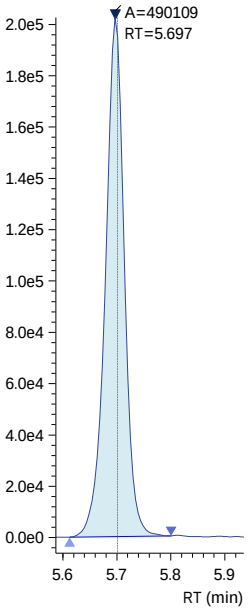
N-EtFOSE
Conc 14.8746
Q 630.00>58.90 (-) 1.04e6



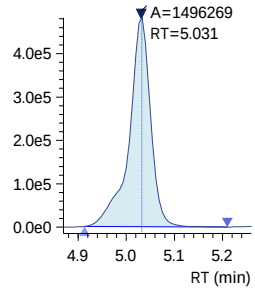
N-EtFOSE-d9
Conc 5.4910
Q 638.70>59.10 (-) 2.03e5



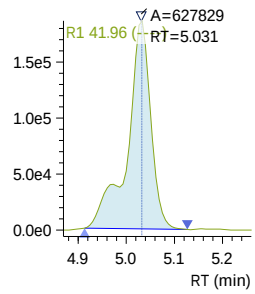
N-EtFOSE-d9_IS
Conc 5.0000
ISTD 638.70>59.10 (-) 2.03e5



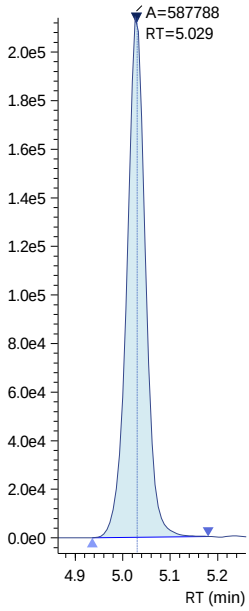
N-MeFOSAA
Conc 15.2172
R#1 41.96 (39.56)
Q 570.20>419.00 (-) 4.83e5



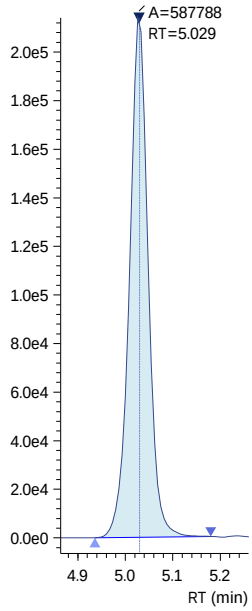
R1 570.20>512.00 (-) 1.87e5



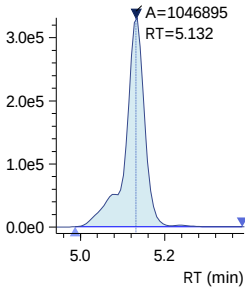
N-MeFOSAA-d3
Conc 5.4283
Q 572.80>419.05 (-) 2.14e5



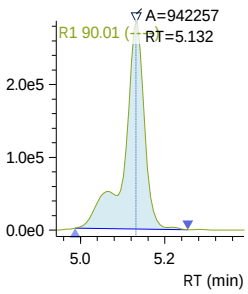
N-MeFOSAA-d3_IS
Conc 5.0000
ISTD 572.80>419.05 (-) 2.14e5



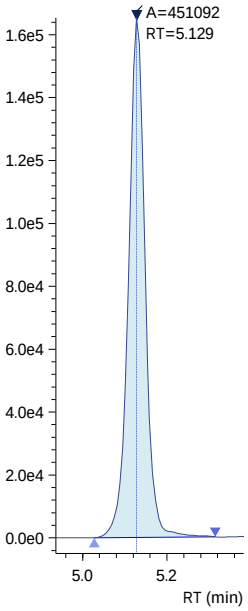
N-EtFOSAA
Conc 15.2770
R#1 90.01 (84.54)
Q 584.20>418.95 (-) 3.32e5



R1 584.20>526.10 (-) 2.88e5

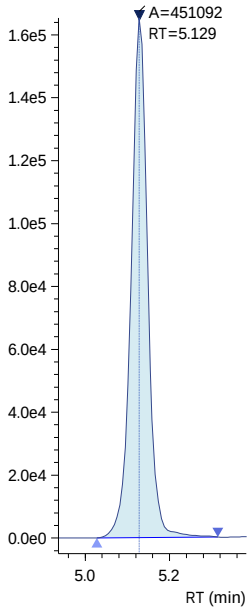


N-EtFOSAA-d5
Conc 4.9265
Q 588.80>419.00 (-) 1.65e5

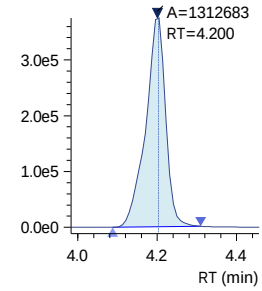


210909_015 (continued)

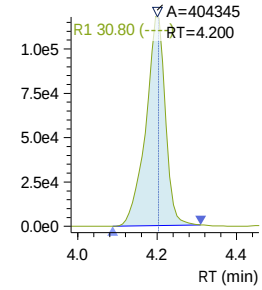
N-EtFOSAA-d5_IS
Conc 5.0000
ISTD 588.80>419.00 (-) 1.65e5



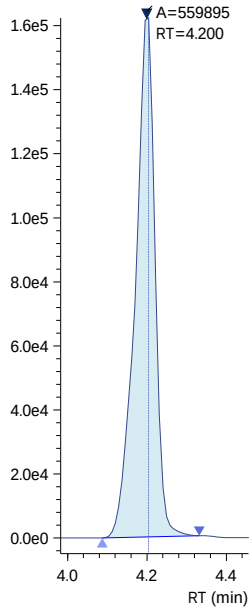
4_2-FTS_1
Conc 12.9843
R#1 30.80 (34.12)
Q 327.00>307.05 (-) 3.75e5



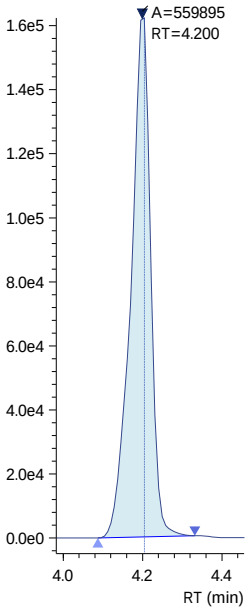
R1 327.00>81.10 (-) 1.18e5



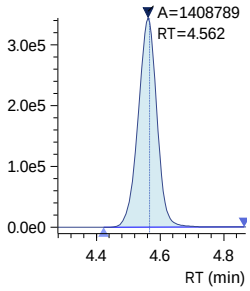
4_2-FTS-13C
Conc 5.5170
Q 328.80>309.05 (-) 1.62e5



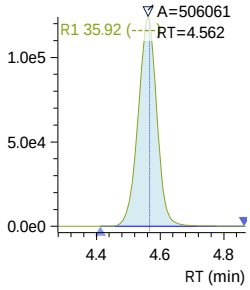
4_2-FTS-13C_IS
Conc 5.0000
ISTD 328.80>309.05 (-) 1.62e5



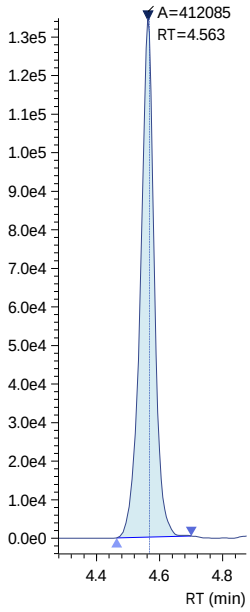
6_2-FTS_1
Conc 13.1019
R#1 35.92 (37.36)
Q 427.00>407.00 (-) 3.44e5



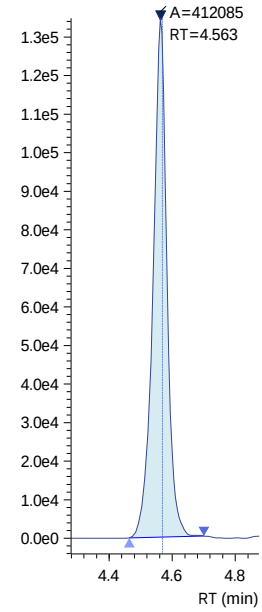
R1 427.00>80.90 (-) 1.24e5



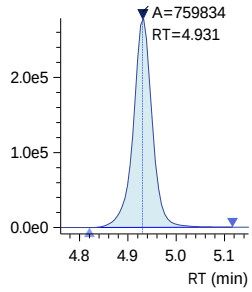
6_2-FTS-13C
Conc 4.8060
Q 428.90>409.00 (-) 1.35e5



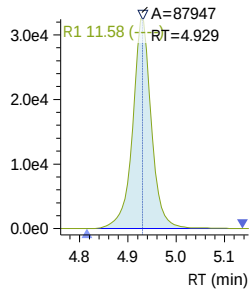
6_2-FTS-13C_IS
Conc 5.0000
ISTD 428.90>409.00 (-) 1.35e5



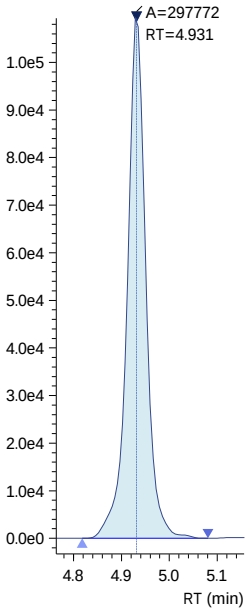
8_2-FTS_1
Conc 13.3560
R#1 11.58 (10.63)
Q 527.10>506.90 (-) 2.79e5



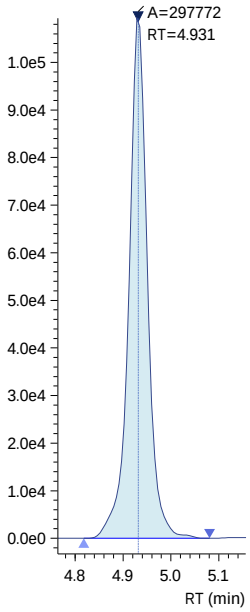
R1 527.20>487.00 (-) 3.24e4



8_2-FTS-13C
Conc 4.7772
Q 528.80>509.00 (-) 1.09e5

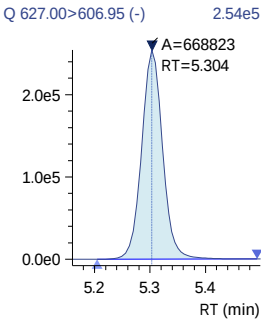


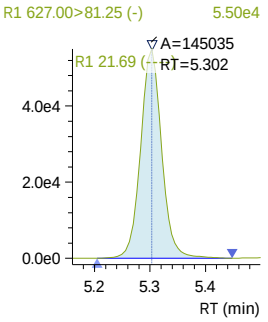
8_2-FTS-13C_IS
Conc 5.0000
ISTD 528.80>509.00 (-) 1.09e5



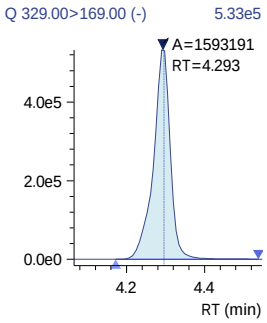
210909_015 (continued)

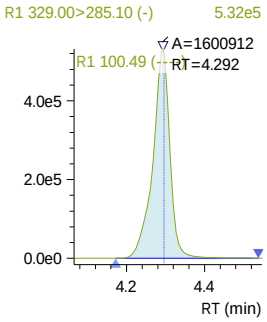
10_2-FtS_1
Conc 14.4816
R#1 21.69 (21.61)



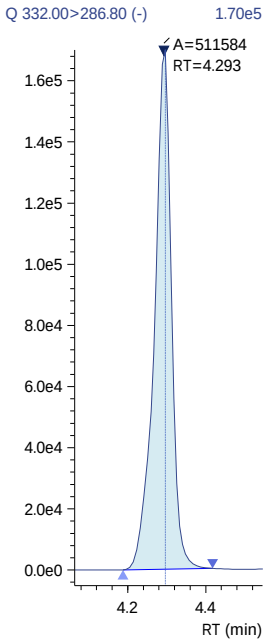


HPFO_DA
Conc 15.5777
R#1 100.49 (106.46)

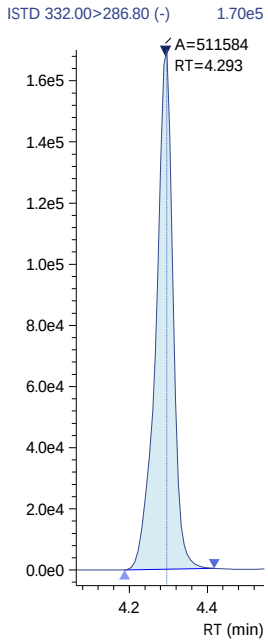




HFPO_DA-13C
Conc 5.5664



HFPO_DA-13C_IS
Conc 5.0000



Insight Report
Retention Time/Signal:Noise Ratio Confirmation
Printed 9/9/2021 16:28:51

210909_016

Sample ID: CCB
Date Acquired: 9/9/2021 3:18:38 PM
Acquired by: System Administrator
Data File: 210909_016
Vial: 9 | Inj. Volume: 15.0000uL | Tray: 1

Name	m/z	Ref 1 m/z	Found RT	RT Diff	ISTD RT Diff	S/N	Ref 1 S/N	Flag ID
13C7-PFUnDA_IS	570.00>525.00	----	5.122	0.005	----	1108	----	
PFBS_1	299.00>80.00	298.80>99.00	3.984	-0.043	-0.046	12	5	
PFBS-13C	301.80>80.00	----	4.030	-0.003	-1.092	(INF)	----	
PFBS-13C_IS	301.80>80.00	----	4.030	-0.003	----	(INF)	----	
PFPeS	349.00>99.00	349.00>79.95	----	----	----	----	----	
PFHxS_1	399.00>80.00	399.00>99.00	4.427	0.017	0.015	(INF)	21	IRr
PFHxS-18O	402.70>84.05	----	4.412	0.002	-0.710	(INF)	----	
PFHxS-18O_IS	402.70>84.05	----	4.412	0.002	----	(INF)	----	
PFHpS_1	449.00>80.15	449.00>99.20	4.570	0.000	0.158	30	3	IRr
PFOS_1	499.00>80.00	499.00>99.00	4.744	0.006	0.001	11	(INF)	IRr
PFOS-13C	502.80>80.05	----	4.743	0.004	-0.379	(INF)	----	
PFOS-13C_IS	502.80>80.05	----	4.743	0.004	----	(INF)	----	
PFNS	549.00>99.00	549.00>79.95	4.944	0.028	0.201	5	(INF)	IRr, SN
PFDS_1	599.00>79.90	599.00>99.10	----	----	----	----	----	
PFBA	213.00>169.10	----	----	----	----	----	----	
PFBA-13C	216.90>172.15	----	3.405	-0.005	-1.717	836	----	
PFBA-13C_IS	216.90>172.15	----	3.405	-0.005	----	836	----	
PFPeA	263.05>219.10	----	----	----	----	----	----	
PFPeA-13C	267.90>223.00	----	3.975	0.002	-1.147	12894	----	
PFPeA-13C_IS	267.90>223.00	----	3.975	0.002	----	12894	----	
PFHxA	313.00>269.00	313.00>119.10	----	----	----	----	----	
PFHxA-13C	314.90>270.10	----	4.231	0.002	-0.891	15370	----	
PFHxA-13C_IS	314.90>270.10	----	4.231	0.002	----	15370	----	
PFHpA	362.90>319.00	362.90>169.00	4.409	-0.003	-0.003	5	12	IRr, SN
PFHpA-13C	366.90>322.10	----	4.412	0.001	-0.710	31092	----	
PFHpA-13C_IS	366.90>322.10	----	4.412	0.001	----	31092	----	
PFOA	413.00>369.00	413.00>169.10	4.572	-0.006	-0.009	34	14	
PFOA-13C	416.80>372.05	----	4.581	0.003	-0.541	53054	----	
PFOA-13C_IS	416.80>372.05	----	4.581	0.003	----	53054	----	
PFNA	463.00>418.90	463.00>219.00	----	----	----	----	----	
PFNA-13C	467.80>423.00	----	4.754	0.003	-0.368	49631	----	
PFNA-13C_IS	467.80>423.00	----	4.754	0.003	----	49631	----	
PFDA	513.00>468.80	513.00>219.10	4.917	-0.016	-0.020	11	(INF)	
PFDA-13C	514.80>469.95	----	4.937	0.004	-0.185	(INF)	----	
PFDA-13C_IS	514.80>469.95	----	4.937	0.004	----	(INF)	----	
PFUnA	563.00>518.90	563.00>219.00	5.126	0.008	0.004	18	(INF)	IRr
PFUnA-13C	564.80>519.95	----	5.122	0.004	0.000	855	----	
PFUnA-13C_IS	564.80>519.95	----	5.122	0.004	----	855	----	
PFDoA	613.05>569.00	613.05>169.00	5.303	0.007	0.001	4	(INF)	IRr, SN
PFDoA-13C	614.80>569.95	----	5.302	0.005	0.180	(INF)	----	
PFDoA-13C_IS	614.80>569.95	----	5.302	0.005	----	(INF)	----	
PFTrDA	663.00>618.90	662.90>169.00	5.467	0.004	-0.145	5	(INF)	IRr, SN
PFTeDA	713.00>669.00	713.00>169.10	5.612	0.001	0.000	61	(INF)	
PFTeDA-13C	714.70>669.90	----	5.612	0.001	0.490	186805	----	
PFTeDA-13C_IS	714.70>669.90	----	5.612	0.001	----	223784	----	
FOSA	498.20>78.00	498.20>64.10	----	----	----	----	----	
FOSA-13C	506.00>78.05	----	5.227	0.008	0.105	2358	----	
FOSA-13C_IS	506.00>78.05	----	5.227	0.008	----	2358	----	
N-MeFOSA	512.00>169.10	512.00>219.00	5.607	-0.002	-0.003	7	31	SN
N-MeFOSA-d3	514.90>168.90	----	5.610	0.004	0.488	1011	----	
N-MeFOSA-d3_IS	514.90>168.90	----	5.610	0.004	----	1011	----	

J:\LCMS06\Data\210909_Curve\210909_Curve.DAMLP .

SN - Software-calculated S/N ratio outside criteria due to non-target peaks or drift in noise calculation window. Analyst review of noise levels (excluding non-target peaks) in chromatogram indicates S/N ratio meets criteria.

Insight Report
Retention Time/Signal:Noise Ratio Confirmation
Printed 9/9/2021 16:28:51

210909_016 (continued)

(Table continued from previous page)

Name	m/z	Ref 1 m/z	Found RT	RT Diff	ISTD RT Diff	S/N	Ref 1 S/N	Flag ID
N-EtFOSA	526.90>169.10	526.90>219.00	----	----	----	----	----	
N-EtFOSA-d9	530.90>169.15	----	5.732	0.002	0.610	3814	----	
N-EtFOSA-d9_IS	530.90>169.15	----	5.732	0.002	----	3814	----	
N-MeFOSE	616.00>59.00	----	5.604	0.014	0.017	4	----	SN
N-MeFOSE-d7	622.70>59.10	----	5.587	0.004	0.465	1646	----	
N-MeFOSE-d7_IS	622.70>59.10	----	5.587	0.004	----	1646	----	
N-EtFOSE	630.00>58.90	----	----	----	----	----	----	
N-EtFOSE-d9	638.70>59.10	----	5.705	0.004	0.583	1683	----	
N-EtFOSE-d9_IS	638.70>59.10	----	5.705	0.004	----	1683	----	
N-MeFOSAA	570.20>419.00	570.20>512.00	5.044	0.011	0.009	(INF)	(INF)	
N-MeFOSAA-d3	572.80>419.05	----	5.035	0.005	-0.087	57005	----	
N-MeFOSAA-d3_IS	572.80>419.05	----	5.035	0.005	----	57005	----	
N-EtFOSAA	584.20>418.95	584.20>526.10	----	----	----	----	----	
N-EtFOSAA-d5	588.80>419.00	----	5.133	0.005	0.011	663896	----	
N-EtFOSAA-d5_IS	588.80>419.00	----	5.133	0.005	----	663896	----	
4_2-FTS_1	327.00>307.05	327.00>81.10	4.215	0.012	0.009	(INF)	(INF)	IRr
4_2-FTS-13C	328.80>309.05	----	4.206	0.002	-0.916	(INF)	----	
4_2-FTS-13C_IS	328.80>309.05	----	4.206	0.002	----	(INF)	----	
6_2-FTS_1	427.00>407.00	427.00>80.90	4.596	0.029	0.026	(INF)	(INF)	IRr
6_2-FTS-13C	428.90>409.00	----	4.570	0.002	-0.552	(INF)	----	
6_2-FTS-13C_IS	428.90>409.00	----	4.570	0.002	----	(INF)	----	
8_2-FTS_1	527.10>506.90	527.20>487.00	----	----	----	----	----	
8_2-FTS-13C	528.80>509.00	----	4.935	0.003	-0.187	21188	----	
8_2-FTS-13C_IS	528.80>509.00	----	4.935	0.003	----	21188	----	
10_2-FtS_1	627.00>606.95	627.00>81.25	5.304	0.001	0.369	43	4	IRr
HPFO_DA	329.00>169.00	329.00>285.10	----	----	----	----	----	
HFPO_DA-13C	332.00>286.80	----	4.298	0.002	-0.824	30647	----	
HFPO_DA-13C_IS	332.00>286.80	----	4.298	0.002	----	30647	----	

Flag ID key: IRr: Ion Ratio (Relative), SN: S/N

SN - Software-calculated S/N ratio outside criteria due to non-target peaks or drift in noise calculation window. Analyst review of noise levels (excluding non-target peaks) in chromatogram indicates S/N ratio meets criteria.

Insight Report
Ion Ratio Confirmation
Printed 9/9/2021 16:29:39

210909_016

Sample ID: CCB
Date Acquired: 9/9/2021 3:18:38 PM
Acquired by: System Administrator
Data File: 210909_016
Vial: 9 | Inj. Volume: 15.0000uL | Tray: 1

Name	m/z	Ref 1 m/z	Area	Ref 1 Measured	Ref 1 Actual Ratio	Ref 1 Set Ratio	Comment 1	Flag ID
13C7-PFUnDA_IS	570.00>525.00	----	4618325	----	----	----		
PFBS_1	299.00>80.00	298.80>99.00	501	288	57.49	49.34	24.67-74.01	
PFBS-13C	301.80>80.00	----	498660	----	----	----	0-0	
PFBS-13C_IS	301.80>80.00	----	498660	----	----	----	0-0	
PFPeS	349.00>99.00	349.00>79.95	----	0	0.00	151.30	75.65 -226.95	
PFHxS_1	399.00>80.00	399.00>99.00	481	1692	351.97	62.92	31.46-94.38	IRr
PFHxS-18O	402.70>84.05	----	367384	----	----	----	0-0	
PFHxS-18O_IS	402.70>84.05	----	367384	----	----	----	0-0	
PFHpS_1	449.00>80.15	449.00>99.20	248	159	64.11	40.53	20.26-60.79	IRr
PFOS_1	499.00>80.00	499.00>99.00	382	685	179.32	73.81	36.91 -110.72	IRr
PFOS-13C	502.80>80.05	----	495736	----	----	----	0-0	
PFOS-13C_IS	502.80>80.05	----	495736	----	----	----	0-0	
PFNS	549.00>99.00	549.00>79.95	145	34	23.45	160.25	80.13 -240.38	IRr, SN
PFDS_1	599.00>79.90	599.00>99.10	----	0	0.00	72.12	36.06 -108.19	
PFBA	213.00>169.10	----	----	----	----	----		
PFBA-13C	216.90>172.15	----	1717903	----	----	----		
PFBA-13C_IS	216.90>172.15	----	1717903	----	----	----		
PFPeA	263.05>219.10	----	----	----	----	----		
PFPeA-13C	267.90>223.00	----	1025278	----	----	----	0-0	
PFPeA-13C_IS	267.90>223.00	----	1025278	----	----	----	0-0	
PFHxA	313.00>269.00	313.00>119.10	----	0	0.00	4.40	2.2-6.61	
PFHxA-13C	314.90>270.10	----	2654380	----	----	----	0-0	
PFHxA-13C_IS	314.90>270.10	----	2654380	----	----	----	0-0	
PFHpA	362.90>319.00	362.90>169.00	2291	2015	87.95	24.40	12.2-36.6	IRr, SN
PFHpA-13C	366.90>322.10	----	2649353	----	----	----	0-0	
PFHpA-13C_IS	366.90>322.10	----	2649353	----	----	----	0-0	
PFOA	413.00>369.00	413.00>169.10	24001	7202	30.01	31.89	15.94-47.83	
PFOA-13C	416.80>372.05	----	3492120	----	----	----	0-0	
PFOA-13C_IS	416.80>372.05	----	3492120	----	----	----	0-0	
PFNA	463.00>418.90	463.00>219.00	----	0	0.00	23.25	11.63-34.88	
PFNA-13C	467.80>423.00	----	2935733	----	----	----	0-0	
PFNA-13C_IS	467.80>423.00	----	2935733	----	----	----	0-0	
PFDA	513.00>468.80	513.00>219.10	2131	531	24.92	20.24	10.12-30.36	
PFDA-13C	514.80>469.95	----	2287289	----	----	----	0-0	
PFDA-13C_IS	514.80>469.95	----	2287289	----	----	----	0-0	
PFUnA	563.00>518.90	563.00>219.00	3099	624	20.12	12.46	6.23-18.69	IRr
PFUnA-13C	564.80>519.95	----	3260742	----	----	----	0-0	
PFUnA-13C_IS	564.80>519.95	----	3260742	----	----	----	0-0	
PFDoA	613.05>569.00	613.05>169.00	1588	1180	74.32	16.50	8.25-24.76	IRr, SN
PFDoA-13C	614.80>569.95	----	3524366	----	----	----	0-0	
PFDoA-13C_IS	614.80>569.95	----	3524366	----	----	----	0-0	
PFTrDA	663.00>618.90	662.90>169.00	1650	719	43.58	15.29	7.65-22.94	IRr, SN
PFTeDA	713.00>669.00	713.00>169.10	10287	1970	19.16	17.47	8.73-26.2	
PFTeDA-13C	714.70>669.90	----	3560422	----	----	----	0-0	
PFTeDA-13C_IS	714.70>669.90	----	3560422	----	----	----	0-0	
FOSA	498.20>78.00	498.20>64.10	----	0	0.00	5.19	2.6-7.79	
FOSA-13C	506.00>78.05	----	1471320	----	----	----	0-0	

J:\LCMS06\Data\210909_Curve\210909_Curve.DAMLP .

Comment 1 field specifies acceptance range for Ref 1 ratio.
IRr - Ion ratio outside criteria. Exceedances for results above the MDL to be "K" flagged in the analytical report.

Insight Report
Ion Ratio Confirmation
Printed 9/9/2021 16:29:39

210909_016 (continued)

(Table continued from previous page)

Name	m/z	Ref 1 m/z	Area	Ref 1 Measured	Ref 1 Actual Ratio	Ref 1 Set Ratio	Comment 1	Flag ID
FOSA-13C_IS	506.00>78.05	----	1471320	----	----	----	0-0	
N-MeFOSA	512.00>169.10	512.00>219.00	1077	714	66.30	69.94	34.97 -104.91	SN
N-MeFOSA-d3	514.90>168.90	----	333758	----	----	----	0-0	
N-MeFOSA-d3_IS	514.90>168.90	----	333758	----	----	----	0-0	
N-EtFOSA	526.90>169.10	526.90>219.00	----	0	0.00	66.52	33.26-99.77	
N-EtFOSA-d9	530.90>169.15	----	383395	----	----	----	0-0	
N-EtFOSA-d9_IS	530.90>169.15	----	383395	----	----	----	0-0	
N-MeFOSE	616.00>59.00	----	722	----	----	----		SN
N-MeFOSE-d7	622.70>59.10	----	495641	----	----	----		
N-MeFOSE-d7_IS	622.70>59.10	----	495641	----	----	----		
N-EtFOSE	630.00>58.90	----	----	----	----	----		
N-EtFOSE-d9	638.70>59.10	----	474631	----	----	----	0-0	
N-EtFOSE-d9_IS	638.70>59.10	----	474631	----	----	----	0-0	
N-MeFOSAA	570.20>419.00	570.20>512.00	3363	1235	36.72	39.56	19.78-59.34	
N-MeFOSAA-d3	572.80>419.05	----	564071	----	----	----	0-0	
N-MeFOSAA-d3 _IS	572.80>419.05	----	564071	----	----	----	0-0	
N-EtFOSAA	584.20>418.95	584.20>526.10	----	0	0.00	84.54	42.27 -126.81	
N-EtFOSAA-d5	588.80>419.00	----	531522	----	----	----	0-0	
N-EtFOSAA-d5_IS	588.80>419.00	----	531522	----	----	----	0-0	
4_2-FTS_1	327.00>307.05	327.00>81.10	183	1489	812.31	34.12	17.06-51.19	IRr
4_2-FTS-13C	328.80>309.05	----	583400	----	----	----	0-0	
4_2-FTS-13C_IS	328.80>309.05	----	583400	----	----	----	0-0	
6_2-FTS_1	427.00>407.00	427.00>80.90	341	330	96.77	37.36	18.68-56.04	IRr
6_2-FTS-13C	428.90>409.00	----	468962	----	----	----	0-0	
6_2-FTS-13C_IS	428.90>409.00	----	468962	----	----	----	0-0	
8_2-FTS_1	527.10>506.90	527.20>487.00	----	0	0.00	10.63	5.32-15.95	
8_2-FTS-13C	528.80>509.00	----	343984	----	----	----	0-0	
8_2-FTS-13C_IS	528.80>509.00	----	343984	----	----	----	0-0	
10_2-FtS_1	627.00>606.95	627.00>81.25	66	38	57.58	21.61	10.8-32.41	IRr
HPFO_DA	329.00>169.00	329.00>285.10	----	0	0.00	106.46	53.23 -159.68	
HFPO_DA-13C	332.00>286.80	----	523775	----	----	----		
HFPO_DA-13C_IS	332.00>286.80	----	523775	----	----	----		

Flag ID key: IRr: Ion Ratio (Relative), SN: S/N

Comment 1 field specifies acceptance range for Ref 1 ratio.
IRr - Ion ratio outside criteria. Exceedances for results above the MDL to be "K" flagged in the analytical report.

Insight Report
Quantitation/Integration
Printed 9/9/2021 16:33:46

210909_016

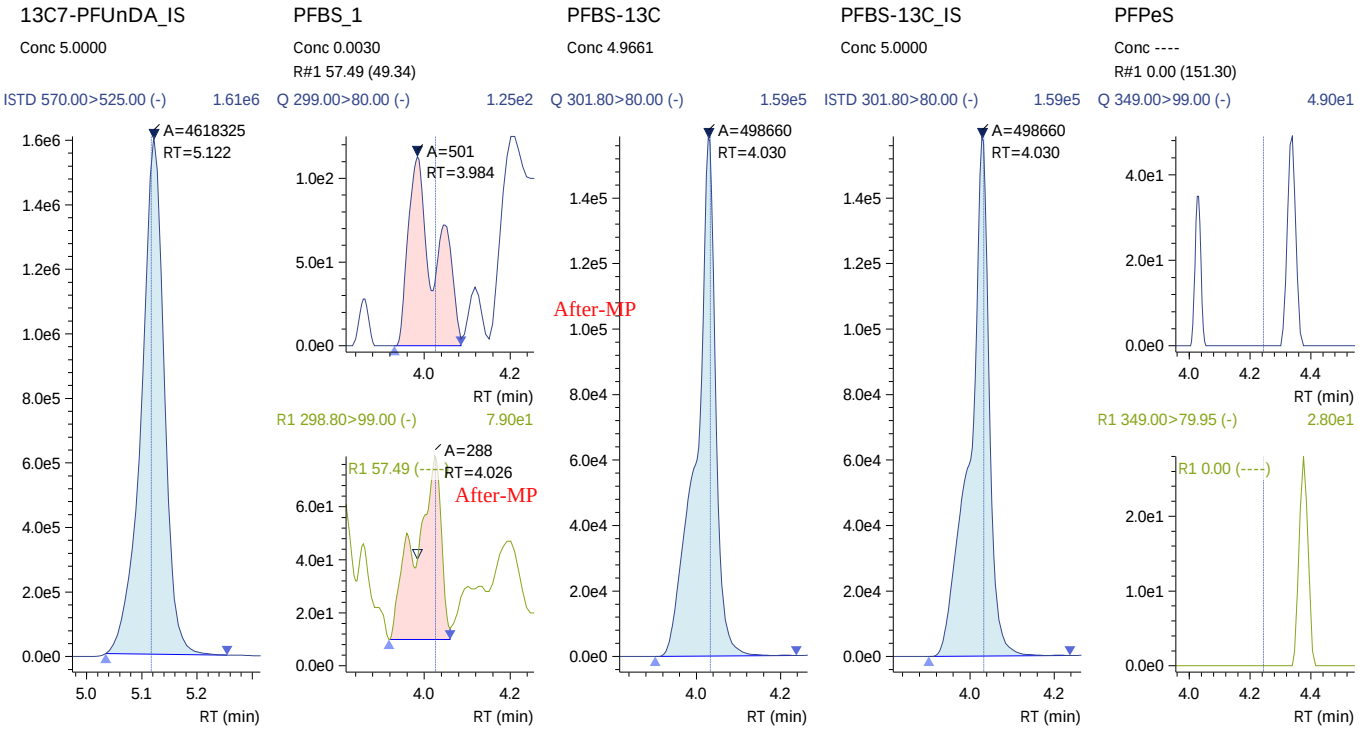
Sample ID: CCB
Date Acquired: 9/9/2021 3:18:38 PM
Acquired by: System Administrator
Data File: 210909_016
Vial: 9 | Inj. Volume: 15.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	ISTD Name	Std. Conc.	Conc.	Unit
13C7-PFUnDA_IS	Auto	5.122	4618325	4618325	----	----	5.0000	ng/mL
PFBS_1	M	3.984	501	498660	PFBS-13C_IS	----	0.0030	ng/mL
PFBS-13C	Auto	4.030	498660	4618325	13C7-PFUnDA_IS	----	4.9661	ng/mL
PFBS-13C_IS	Auto	4.030	498660	498660	----	----	5.0000	ng/mL
PFPeS	ND(W/B)	----	----	498660	PFBS-13C_IS	----	----	ng/mL
PFHxS_1	MI R1	4.427	481	367384	PFHxS-18O_IS	----	-0.0173	ng/mL
PFHxS-18O	Auto	4.412	367384	4618325	13C7-PFUnDA_IS	----	5.1296	ng/mL
PFHxS-18O_IS	Auto	4.412	367384	367384	----	----	5.0000	ng/mL
PFHpS_1	M	4.570	248	367384	PFHxS-18O_IS	----	0.0020	ng/mL
PFOS_1	M	4.744	382	495736	PFOS-13C_IS	----	0.0041	ng/mL
PFOS-13C	Auto	4.743	495736	4618325	13C7-PFUnDA_IS	----	5.0652	ng/mL
PFOS-13C_IS	Auto	4.743	495736	495736	----	----	5.0000	ng/mL
PFNS	MI R1	4.944	145	495736	PFOS-13C_IS	----	0.0022	ng/mL
PFDS_1	ND(W/B)	----	----	495736	PFOS-13C_IS	----	----	ng/mL
PFBA	ND(W/B)	----	----	1717903	PFBA-13C_IS	----	----	ng/mL
PFBA-13C	Auto	3.405	1717903	4618325	13C7-PFUnDA_IS	----	4.7688	ng/mL
PFBA-13C_IS	Auto	3.405	1717903	1717903	----	----	5.0000	ng/mL
PFPeA	ND(W/B)	----	----	1025278	PFPeA-13C_IS	----	----	ng/mL
PFPeA-13C	Auto	3.975	1025278	4618325	13C7-PFUnDA_IS	----	4.9800	ng/mL
PFPeA-13C_IS	Auto	3.975	1025278	1025278	----	----	5.0000	ng/mL
PFHxA	ND(W/B)	----	----	2654380	PFHxA-13C_IS	----	----	ng/mL
PFHxA-13C	Auto	4.231	2654380	4618325	13C7-PFUnDA_IS	----	4.5437	ng/mL
PFHxA-13C_IS	Auto	4.231	2654380	2654380	----	----	5.0000	ng/mL
PFHpA	M	4.409	2291	2649353	PFHpA-13C_IS	----	0.0036	ng/mL
PFHpA-13C	Auto	4.412	2649353	4618325	13C7-PFUnDA_IS	----	5.0007	ng/mL
PFHpA-13C_IS	Auto	4.412	2649353	2649353	----	----	5.0000	ng/mL
PFOA	MI R1	4.572	24001	3492120	PFOA-13C_IS	----	0.0251	ng/mL
PFOA-13C	Auto	4.581	3492120	4618325	13C7-PFUnDA_IS	----	4.9304	ng/mL
PFOA-13C_IS	Auto	4.581	3492120	3492120	----	----	5.0000	ng/mL
PFNA	ND(W/B)	----	----	2935733	PFNA-13C_IS	----	----	ng/mL
PFNA-13C	Auto	4.754	2935733	4618325	13C7-PFUnDA_IS	----	4.8109	ng/mL
PFNA-13C_IS	Auto	4.754	2935733	2935733	----	----	5.0000	ng/mL
PFDA	M	4.917	2131	2287289	PFDA-13C_IS	----	0.0033	ng/mL
PFDA-13C	Auto	4.937	2287289	4618325	13C7-PFUnDA_IS	----	5.3912	ng/mL
PFDA-13C_IS	Auto	4.937	2287289	2287289	----	----	5.0000	ng/mL
PFUnA	M	5.126	3099	3260742	PFUnA-13C_IS	----	0.0043	ng/mL
PFUnA-13C	Auto	5.122	3260742	4618325	13C7-PFUnDA_IS	----	5.0972	ng/mL
PFUnA-13C_IS	Auto	5.122	3260742	3260742	----	----	5.0000	ng/mL
PFDoA	M	5.303	1588	3524366	PFDoA-13C_IS	----	0.0025	ng/mL
PFDoA-13C	Auto	5.302	3524366	4618325	13C7-PFUnDA_IS	----	4.9947	ng/mL
PFDoA-13C_IS	Auto	5.302	3524366	3524366	----	----	5.0000	ng/mL
PFTrDA	M	5.467	1650	3560422	PFTeDA-13C_IS	----	0.0023	ng/mL
PFTeDA	M	5.612	10287	3560422	PFTeDA-13C_IS	----	0.0130	ng/mL
PFTeDA-13C	Auto	5.612	3560422	4618325	13C7-PFUnDA_IS	----	5.0290	ng/mL
PFTeDA-13C_IS	Auto	5.612	3560422	3560422	----	----	5.0000	ng/mL
FOSA	ND(W/B)	----	----	1471320	FOSA-13C_IS	----	----	ng/mL
FOSA-13C	Auto	5.227	1471320	4618325	13C7-PFUnDA_IS	----	5.0088	ng/mL
FOSA-13C_IS	Auto	5.227	1471320	1471320	----	----	5.0000	ng/mL
N-MeFOSA	M	5.607	1077	333758	N-MeFOSA-d3_IS	----	0.0085	ng/mL
N-MeFOSA-d3	Auto	5.610	333758	4618325	13C7-PFUnDA_IS	----	5.0638	ng/mL
N-MeFOSA-d3_IS	Auto	5.610	333758	333758	----	----	5.0000	ng/mL
N-EtFOSA	ND(W/B)	----	----	383395	N-EtFOSA-d9_IS	----	----	ng/mL
N-EtFOSA-d9	Auto	5.732	383395	4618325	13C7-PFUnDA_IS	----	4.9931	ng/mL
N-EtFOSA-d9_IS	Auto	5.732	383395	383395	----	----	5.0000	ng/mL

210909_016 (continued)

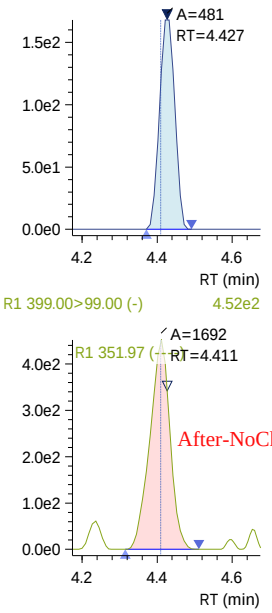
(Table continued from previous page)

Name	Mode ID	Found RT	Area	ISTD Area	ISTD Name	Std. Conc.	Conc.	Unit
N-MeFOSE	M	5.604	722	495641	N-MeFOSE-d7_IS	----	0.0041	ng/mL
N-MeFOSE-d7	Auto	5.587	495641	4618325	13C7-PFUnDA_IS	----	4.8836	ng/mL
N-MeFOSE-d7_IS	Auto	5.587	495641	495641	----	----	5.0000	ng/mL
N-EtFOSE	ND(W/B)	----	----	474631	N-EtFOSE-d9_IS	----	----	ng/mL
N-EtFOSE-d9	Auto	5.705	474631	4618325	13C7-PFUnDA_IS	----	4.9384	ng/mL
N-EtFOSE-d9_IS	Auto	5.705	474631	474631	----	----	5.0000	ng/mL
N-MeFOSAA	Auto	5.044	3363	564071	N-MeFOSAA-d3_IS	----	0.0453	ng/mL
N-MeFOSAA-d3	Auto	5.035	564071	4618325	13C7-PFUnDA_IS	----	4.8378	ng/mL
N-MeFOSAA-d3_IS	Auto	5.035	564071	564071	----	----	5.0000	ng/mL
N-EtFOSAA	ND(W/B)	----	----	531522	N-EtFOSAA-d5_IS	----	----	ng/mL
N-EtFOSAA-d5	Auto	5.133	531522	4618325	13C7-PFUnDA_IS	----	5.3910	ng/mL
N-EtFOSAA-d5_IS	Auto	5.133	531522	531522	----	----	5.0000	ng/mL
4_2-FTS_1	MI R1	4.215	183	583400	4_2-FTS-13C_IS	----	0.0017	ng/mL
4_2-FTS-13C	Auto	4.206	583400	4618325	13C7-PFUnDA_IS	----	5.3386	ng/mL
4_2-FTS-13C_IS	Auto	4.206	583400	583400	----	----	5.0000	ng/mL
6_2-FTS_1	Auto	4.596	341	468962	6_2-FTS-13C_IS	----	0.0028	ng/mL
6_2-FTS-13C	Auto	4.570	468962	4618325	13C7-PFUnDA_IS	----	5.0793	ng/mL
6_2-FTS-13C_IS	Auto	4.570	468962	468962	----	----	5.0000	ng/mL
8_2-FTS_1	ND(W/B)	----	----	343984	8_2-FTS-13C_IS	----	----	ng/mL
8_2-FTS-13C	Auto	4.935	343984	4618325	13C7-PFUnDA_IS	----	5.1250	ng/mL
8_2-FTS-13C_IS	Auto	4.935	343984	343984	----	----	5.0000	ng/mL
10_2-FtS_1	M	5.304	66	343984	8_2-FTS-13C_IS	----	0.0012	ng/mL
HPFO_DA	ND(W/B)	----	----	523775	HFPO_DA-13C_IS	----	----	ng/mL
HFPO_DA-13C	Auto	4.298	523775	4618325	13C7-PFUnDA_IS	----	5.2926	ng/mL
HFPO_DA-13C_IS	Auto	4.298	523775	523775	----	----	5.0000	ng/mL

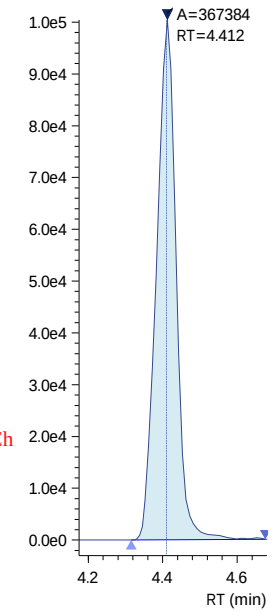


210909_016 (continued)

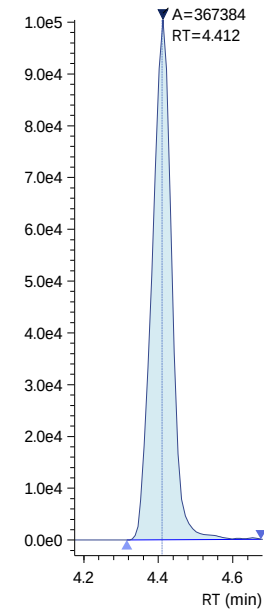
PFHxS_1
Conc -0.0173
R#1 351.97 (62.92)



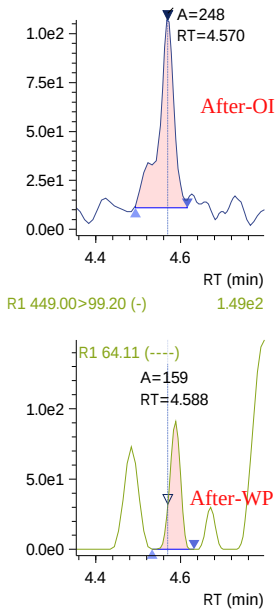
PFHxS-18O
Conc 5.1296



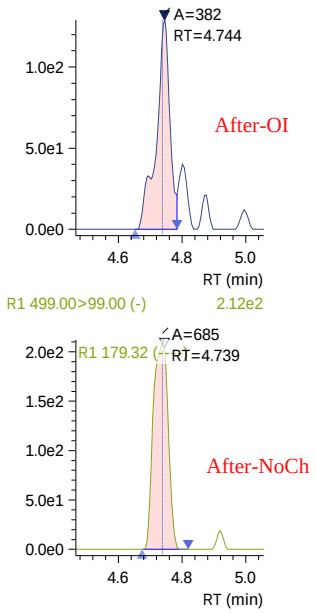
PFHxS-18O_IS
Conc 5.0000



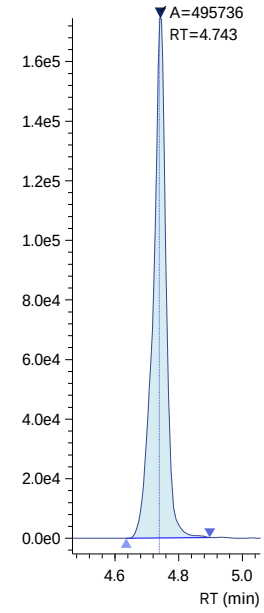
PFHpS_1
Conc 0.0020
R#1 64.11 (40.53)



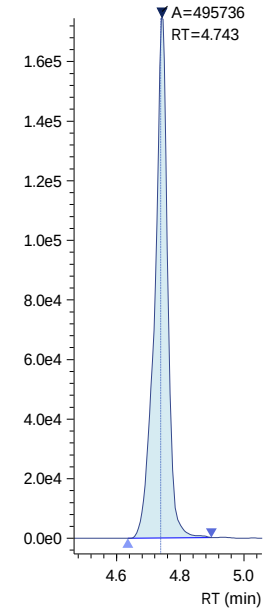
PFOS_1
Conc 0.0041
R#1 179.32 (73.81)



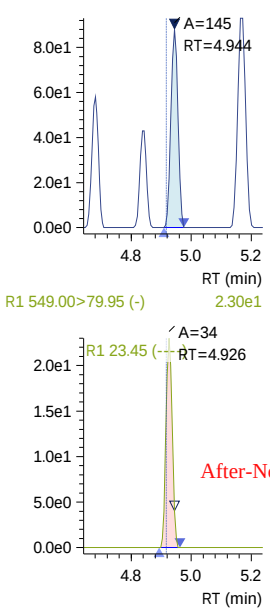
PFOS-13C
Conc 5.0652



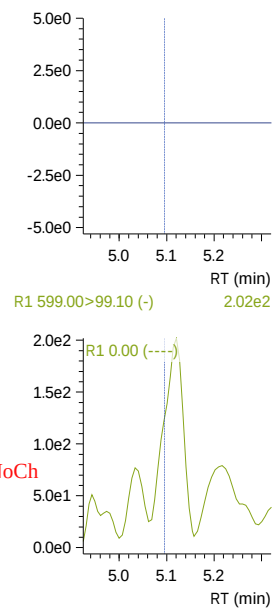
PFOS-13C_IS
Conc 5.0000



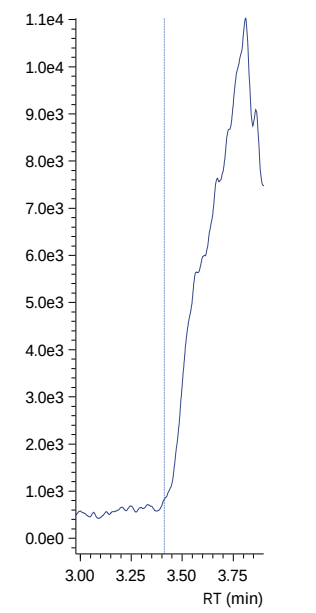
PFNS
Conc 0.0022
R#1 23.45 (160.25)



PFDS_1
Conc ----
R#1 0.00 (72.12)

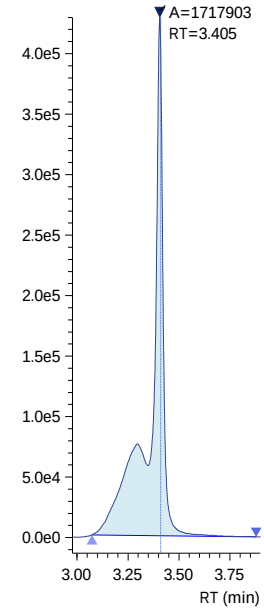


PFBA
Conc ----

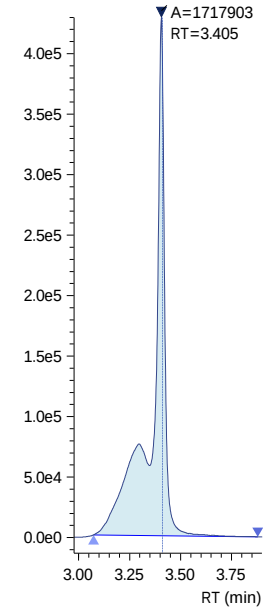


210909_016 (continued)

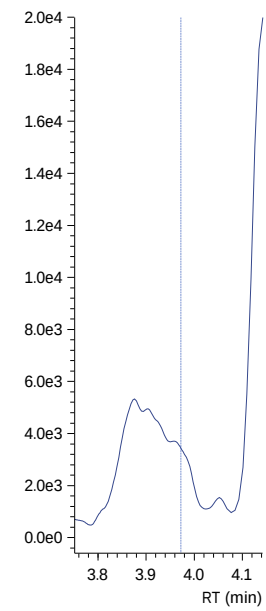
PFBA-13C
Conc 4.7688
Q 216.90>172.15 (-) 4.30e5



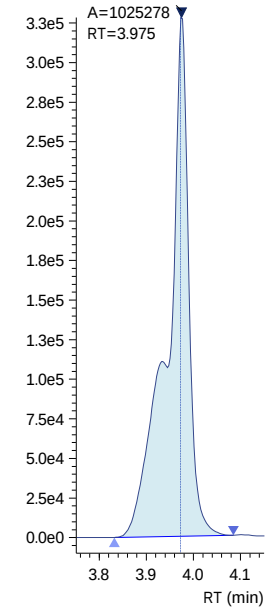
PFBA-13C_IS
Conc 5.0000
ISTD 216.90>172.15 (-) 4.30e5



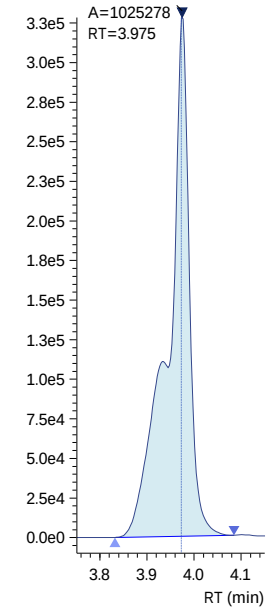
PFPeA
Conc ----
Q 263.05>219.10 (-) 2.00e4



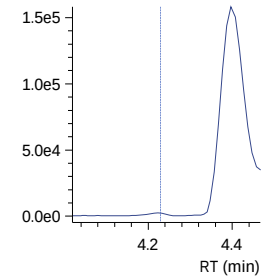
PFPeA-13C
Conc 4.9800
Q 267.90>223.00 (-) 3.29e5



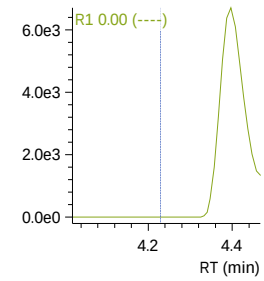
PFPeA-13C_IS
Conc 5.0000
ISTD 267.90>223.00 (-) 3.29e5



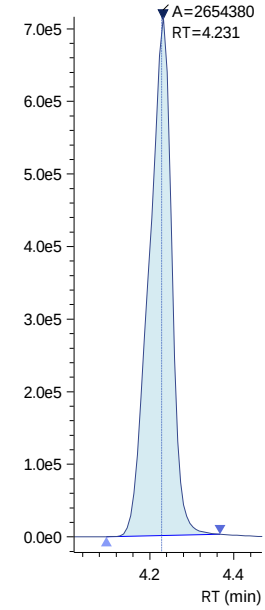
PFHxA
Conc ----
R#1 0.00 (4.40)
Q 313.00>269.00 (-) 1.58e5



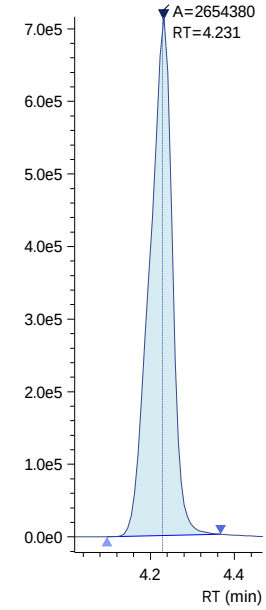
R1 313.00>119.10 (-) 6.71e3



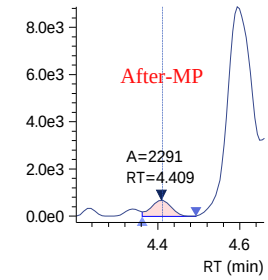
PFHxA-13C
Conc 4.5437
Q 314.90>270.10 (-) 7.17e5



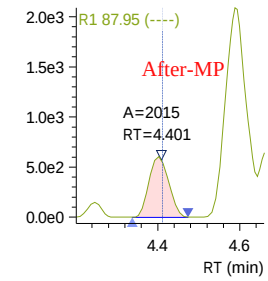
PFHxA-13C_IS
Conc 5.0000
ISTD 314.90>270.10 (-) 7.17e5



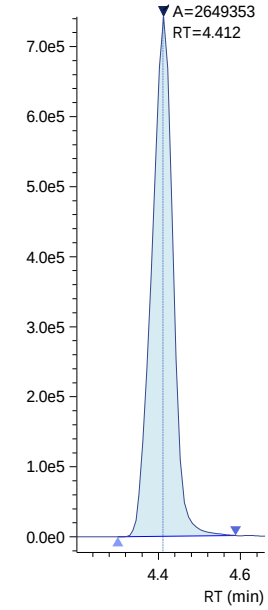
PFHpA
Conc 0.0036
R#1 87.95 (24.40)
Q 362.90>319.00 (-) 8.87e3



R1 362.90>169.00 (-) 2.09e3

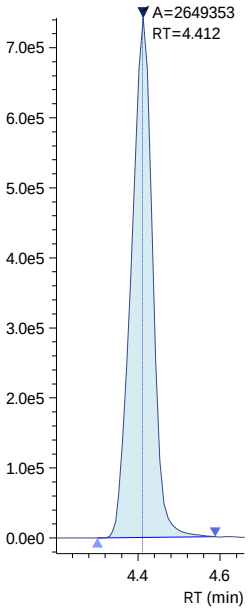


PFHpA-13C
Conc 5.0007
Q 366.90>322.10 (-) 7.43e5

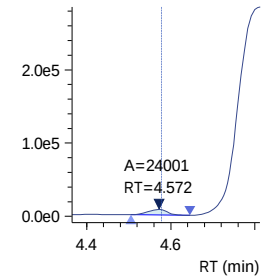


210909_016 (continued)

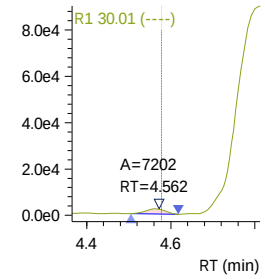
PFHpA-13C_IS
Conc 5.0000
ISTD 366.90>322.10 (-) 7.43e5



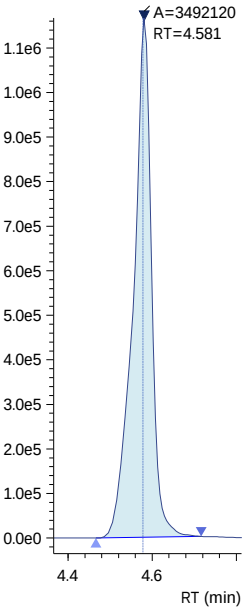
PFOA
Conc 0.0251
R#1 30.01 (31.89)
Q 413.00>369.00 (-) 2.86e5



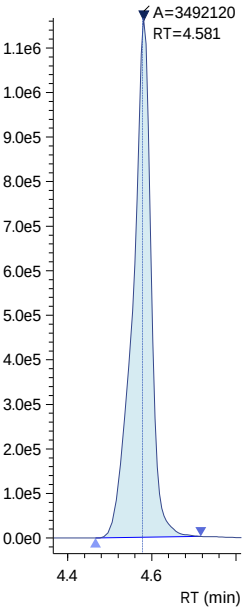
R1 413.00>169.10 (-) 9.04e4



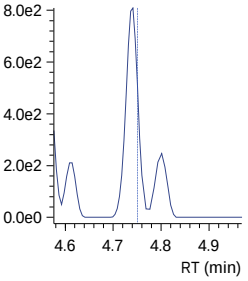
PFOA-13C
Conc 4.9304
Q 416.80>372.05 (-) 1.17e6



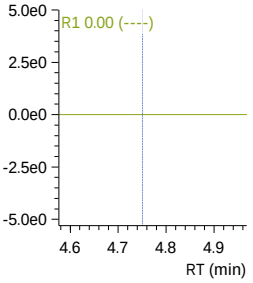
PFOA-13C_IS
Conc 5.0000
ISTD 416.80>372.05 (-) 1.17e6



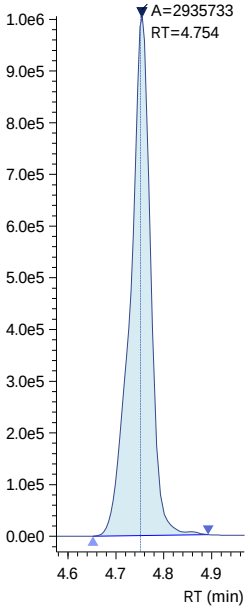
PFNA
Conc ----
R#1 0.00 (23.25)
Q 463.00>418.90 (-) 8.09e2



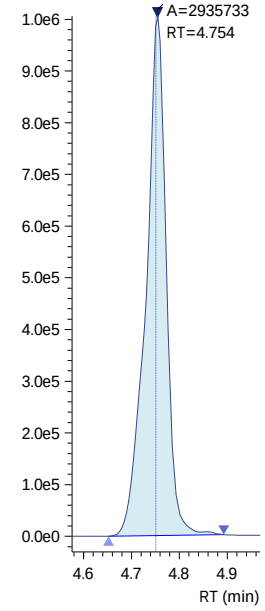
R1 463.00>219.00 (-) 0.00e0



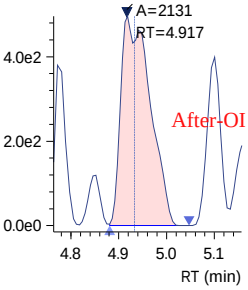
PFNA-13C
Conc 4.8109
Q 467.80>423.00 (-) 1.01e6



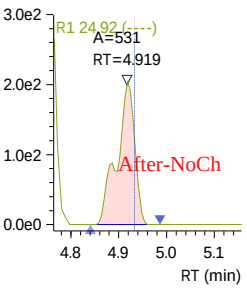
PFNA-13C_IS
Conc 5.0000
ISTD 467.80>423.00 (-) 1.01e6



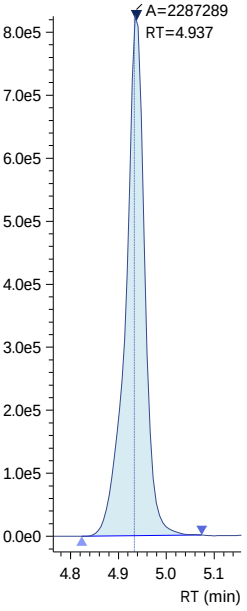
PFDA
Conc 0.0033
R#1 24.92 (20.24)
Q 513.00>468.80 (-) 4.96e2



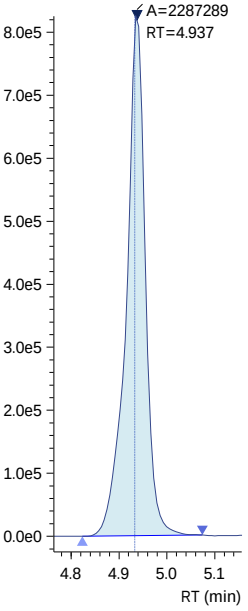
R1 513.00>219.10 (-) 2.99e2



PFDA-13C
Conc 5.3912
Q 514.80>469.95 (-) 8.25e5

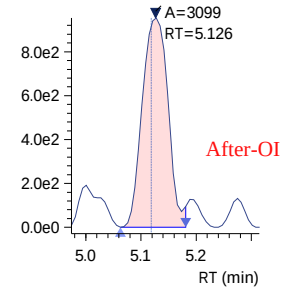


PFDA-13C_IS
Conc 5.0000
ISTD 514.80>469.95 (-) 8.25e5

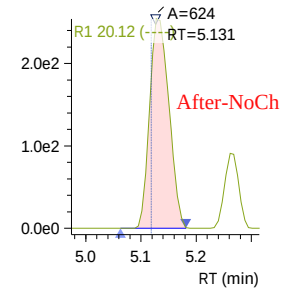


210909_016 (continued)

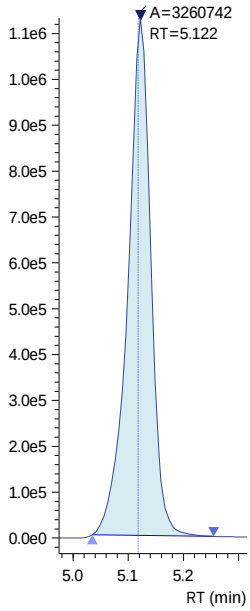
PFUnA
Conc 0.0043
R#1 20.12 (12.46)
Q 563.00>518.90 (-) 9.54e2



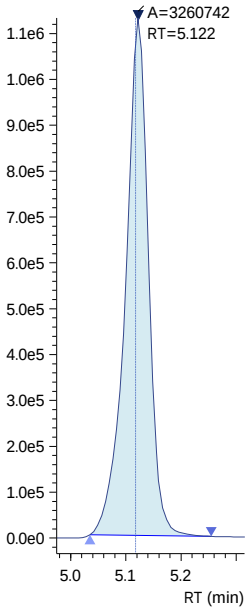
R1 563.00>219.00 (-) 2.54e2



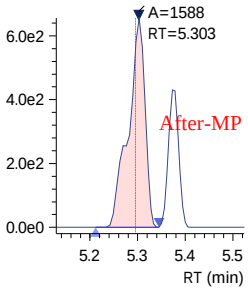
PFUnA-13C
Conc 5.0972
Q 564.80>519.95 (-) 1.13e6



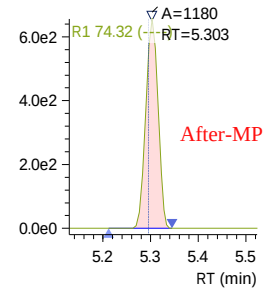
PFUnA-13C_IS
Conc 5.0000
ISTD 564.80>519.95 (-) 1.13e6



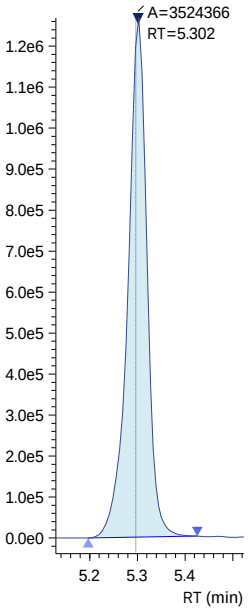
PFDoA
Conc 0.0025
R#1 74.32 (16.50)
Q 613.05>569.00 (-) 6.56e2



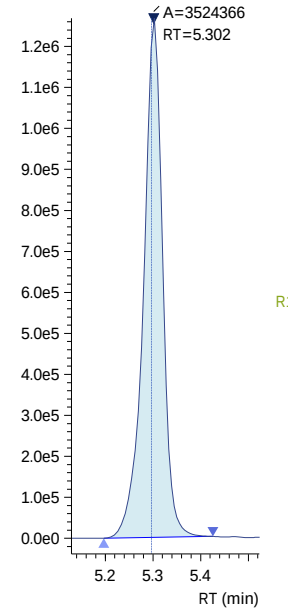
R1 613.05>169.00 (-) 6.56e2



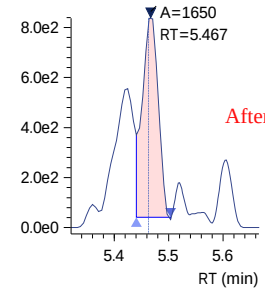
PFDoA-13C
Conc 4.9947
Q 614.80>569.95 (-) 1.27e6



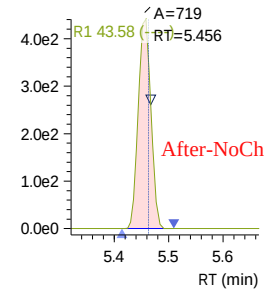
PFDoA-13C_IS
Conc 5.0000
ISTD 614.80>569.95 (-) 1.27e6



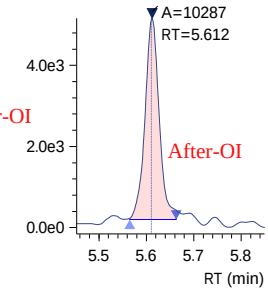
PFTrDA
Conc 0.0023
R#1 43.58 (15.29)
Q 663.00>618.90 (-) 8.37e2



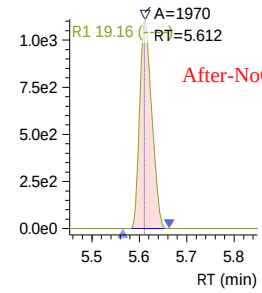
R1 662.90>169.00 (-) 4.41e2



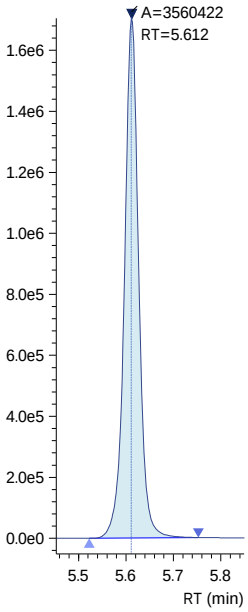
PFTeDA
Conc 0.0130
R#1 19.16 (17.47)
Q 713.00>669.00 (-) 5.16e3



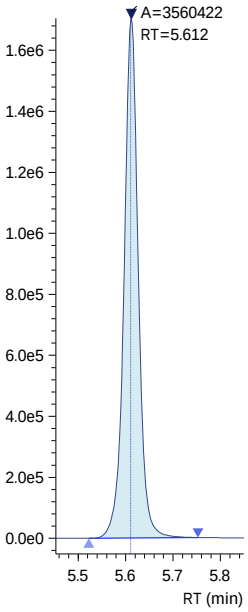
R1 713.00>169.10 (-) 1.11e3



PFTeDA-13C
Conc 5.0290
Q 714.70>669.90 (-) 1.71e6

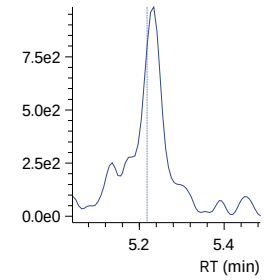


PFTeDA-13C_IS
Conc 5.0000
ISTD 714.70>669.90 (-) 1.71e6

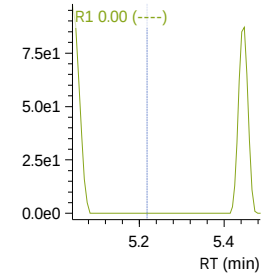


210909_016 (continued)

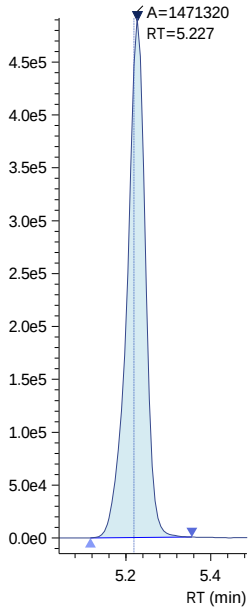
FOSA
Conc ----
R#1 0.00 (5.19)
Q 498.20>78.00 (-) 9.84e2



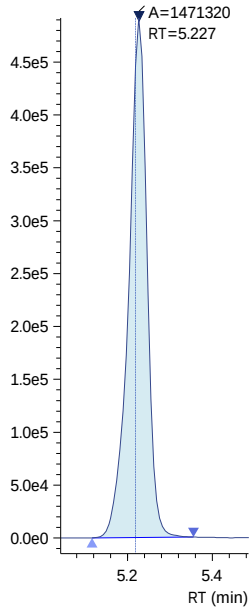
R1 498.20>64.10 (-) 9.80e1



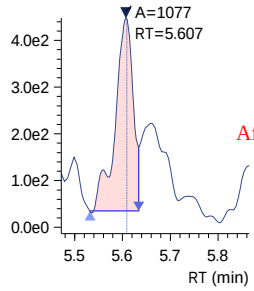
FOSA-13C
Conc 5.0088
Q 506.00>78.05 (-) 4.92e5



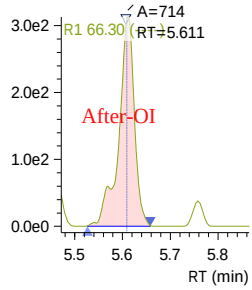
FOSA-13C_IS
Conc 5.0000
ISTD 506.00>78.05 (-) 4.92e5



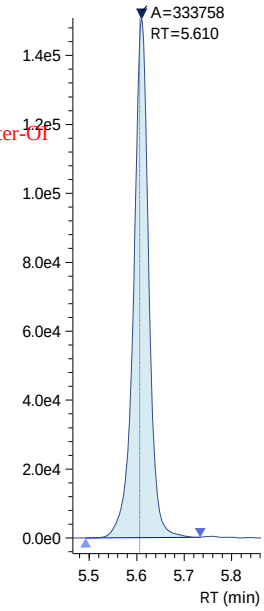
N-MeFOSA
Conc 0.0085
R#1 66.30 (69.94)
Q 512.00>169.10 (-) 4.48e2



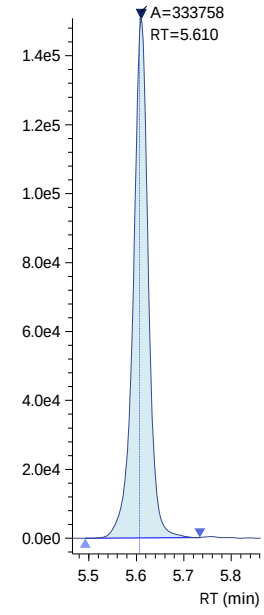
R1 512.00>219.00 (-) 3.13e2



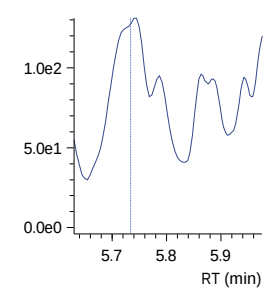
N-MeFOSA-d3
Conc 5.0638
Q 514.90>168.90 (-) 1.51e5



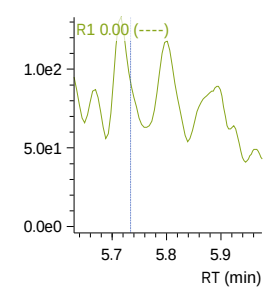
N-MeFOSA-d3_IS
Conc 5.0000
ISTD 514.90>168.90 (-) 1.51e5



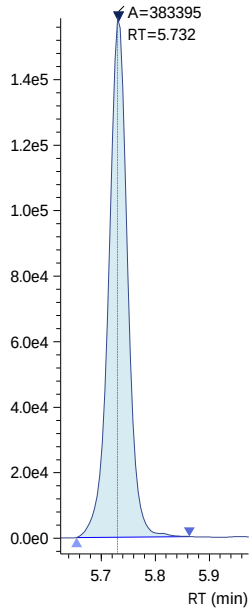
N-EtFOSA
Conc ----
R#1 0.00 (66.52)
Q 526.90>169.10 (-) 1.31e2



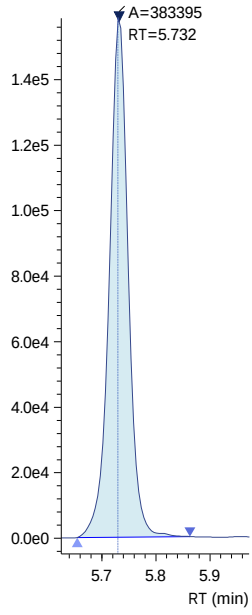
R1 526.90>219.00 (-) 1.33e2



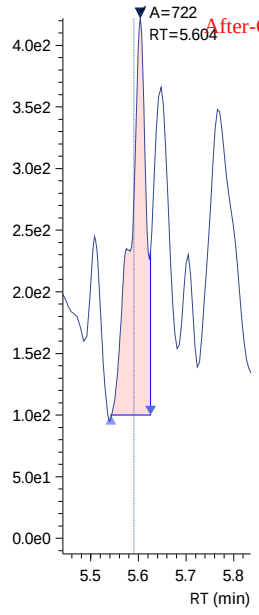
N-EtFOSA-d9
Conc 4.9931
Q 530.90>169.15 (-) 1.59e5



N-EtFOSA-d9_IS
Conc 5.0000
ISTD 530.90>169.15 (-) 1.59e5

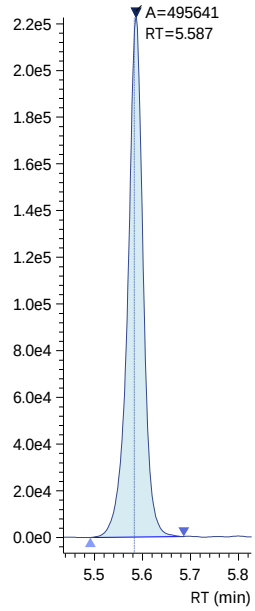


N-MeFOSE
Conc 0.0041
Q 616.00>59.00 (-) 4.22e2

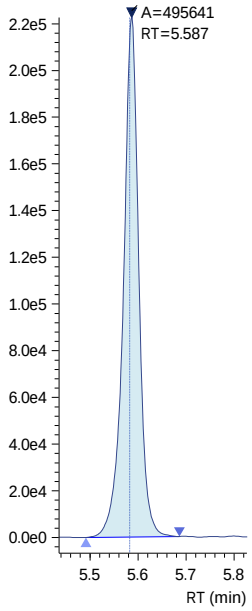


210909_016 (continued)

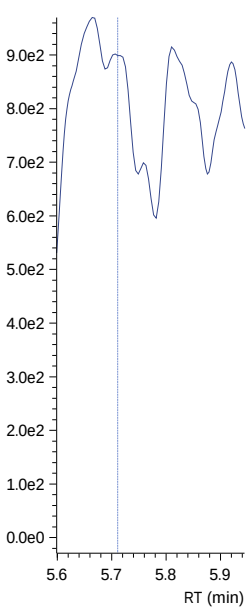
N-MeFOSE-d7
Conc 4.8836
Q 622.70>59.10 (-) 2.23e5



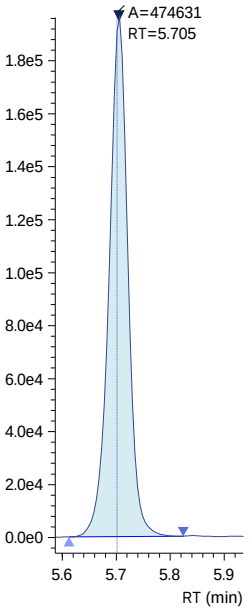
N-MeFOSE-d7_IS
Conc 5.0000
ISTD 622.70>59.10 (-) 2.23e5



N-EtFOSE
Conc ----
Q 630.00>58.90 (-) 9.70e2



N-EtFOSE-d9
Conc 4.9384
Q 638.70>59.10 (-) 1.96e5



N-EtFOSE-d9_IS
Conc 5.0000
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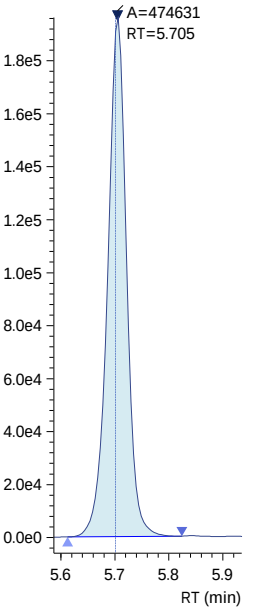
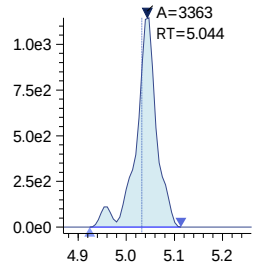
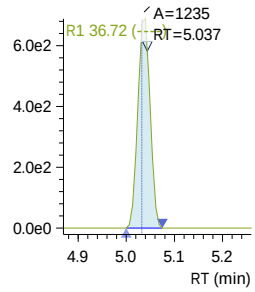


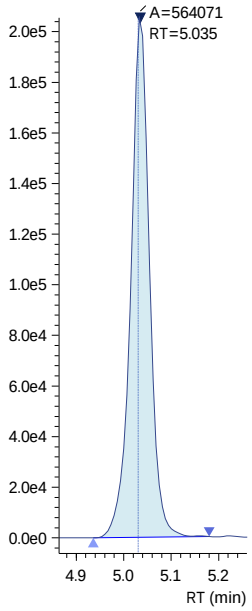
N-MeFOSAA
Conc 0.0453
R#1 36.72 (39.56)
Q 570.20>419.00 (-) 1.15e3



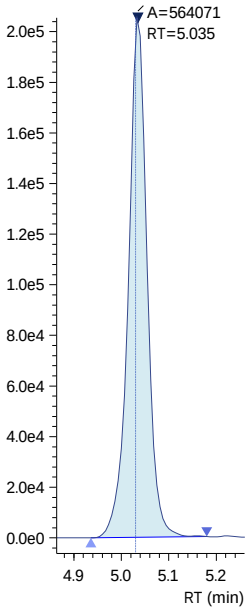
R1 570.20>512.00 (-) 6.88e2



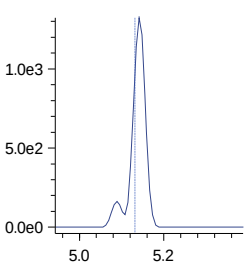
N-MeFOSAA-d3
Conc 4.8378
Q 572.80>419.05 (-) 2.05e5



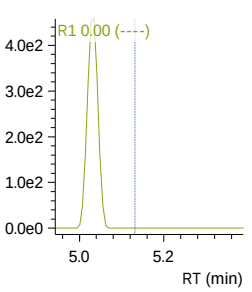
N-MeFOSAA-d3_IS
Conc 5.0000
ISTD 572.80>419.05 (-) 2.05e5



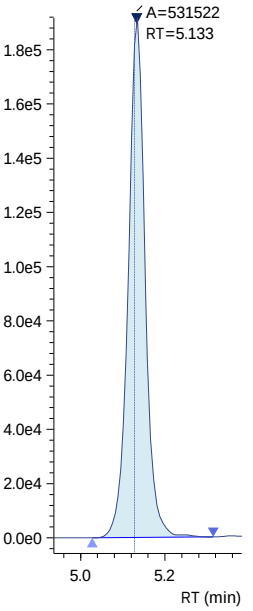
N-EtFOSAA
Conc ----
R#1 0.00 (84.54)
Q 584.20>418.95 (-) 1.32e3



R1 584.20>526.10 (-) 4.58e2

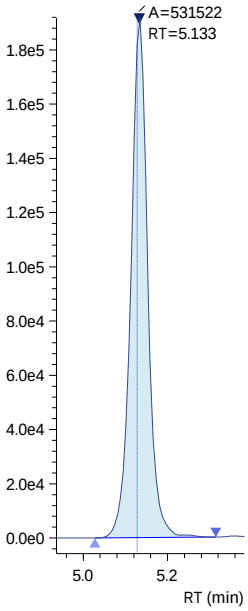


N-EtFOSAA-d5
Conc 5.3910
Q 588.80>419.00 (-) 1.92e5

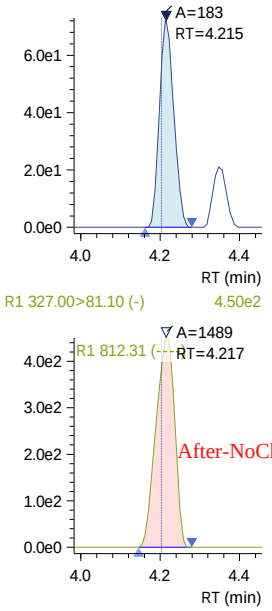


210909_016 (continued)

N-EtFOSAA-d5_IS
Conc 5.0000
ISTD 588.80>419.00 (-) 1.92e5

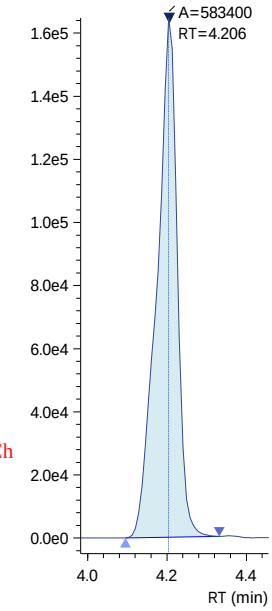


4_2-FTS_1
Conc 0.0017
R#1 812.31 (34.12)
Q 327.00>307.05 (-) 7.30e1

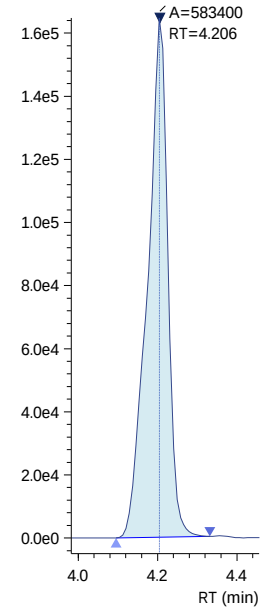


R1 327.00>81.10 (-) 4.50e2

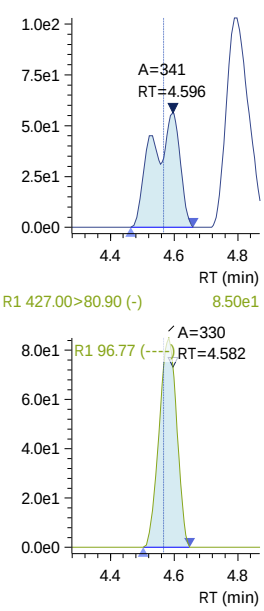
4_2-FTS-13C
Conc 5.3386
Q 328.80>309.05 (-) 1.65e5



4_2-FTS-13C_IS
Conc 5.0000
ISTD 328.80>309.05 (-) 1.65e5

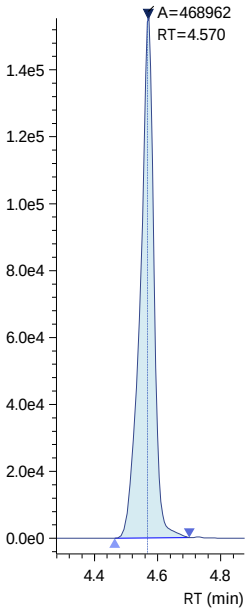


6_2-FTS_1
Conc 0.0028
R#1 96.77 (37.36)
Q 427.00>407.00 (-) 1.03e2

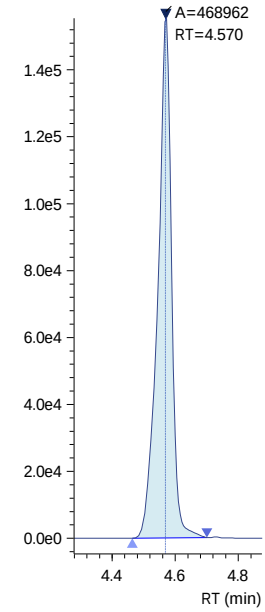


R1 427.00>80.90 (-) 8.50e1

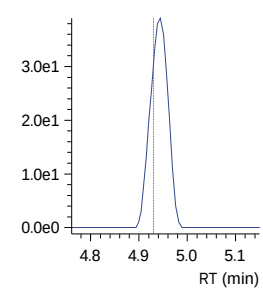
6_2-FTS-13C
Conc 5.0793
Q 428.90>409.00 (-) 1.55e5



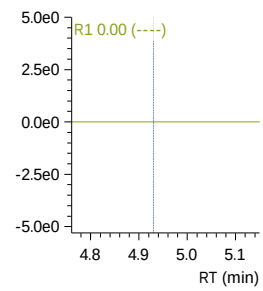
6_2-FTS-13C_IS
Conc 5.0000
ISTD 428.90>409.00 (-) 1.55e5



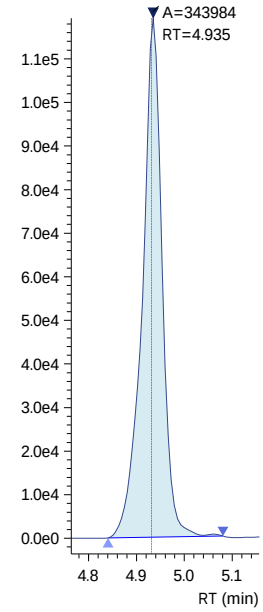
8_2-FTS_1
Conc ----
R#1 0.00 (10.63)
Q 527.10>506.90 (-) 3.90e1



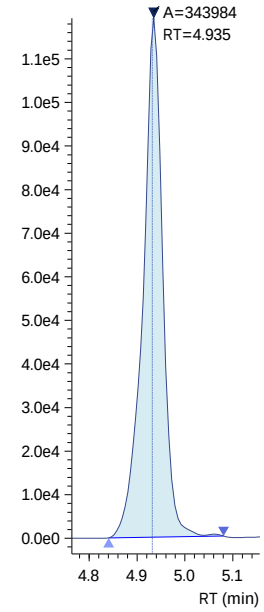
R1 527.20>487.00 (-) 0.00e0



8_2-FTS-13C
Conc 5.1250
Q 528.80>509.00 (-) 1.19e5

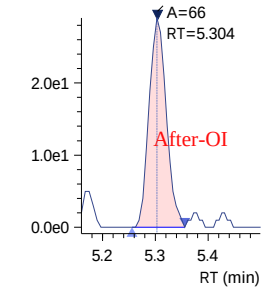


8_2-FTS-13C_IS
Conc 5.0000
ISTD 528.80>509.00 (-) 1.19e5

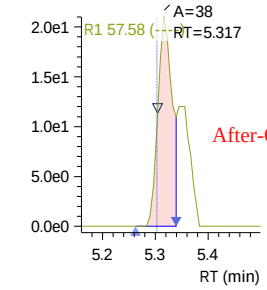


210909_016 (continued)

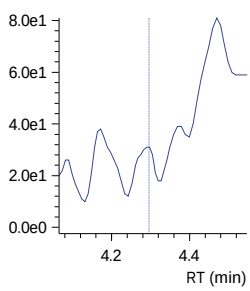
10_2-FtS_1
Conc 0.0012
R#1 57.58 (21.61)
Q 627.00>606.95 (-) 2.90e1



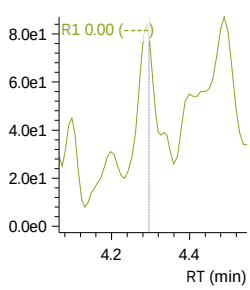
R1 627.00>81.25 (-) 2.10e1



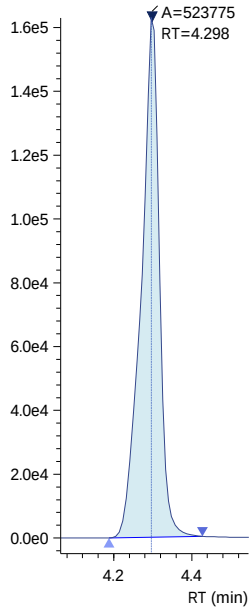
HPFO_DA
Conc ----
R#1 0.00 (106.46)
Q 329.00>169.00 (-) 8.10e1



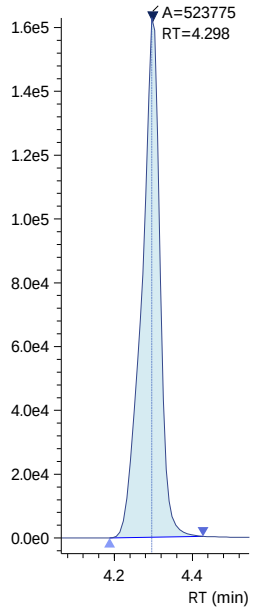
R1 329.00>285.10 (-) 8.70e1



HFPO_DA-13C
Conc 5.2926
Q 332.00>286.80 (-) 1.63e5



HFPO_DA-13C_IS
Conc 5.0000
ISTD 332.00>286.80 (-) 1.63e5

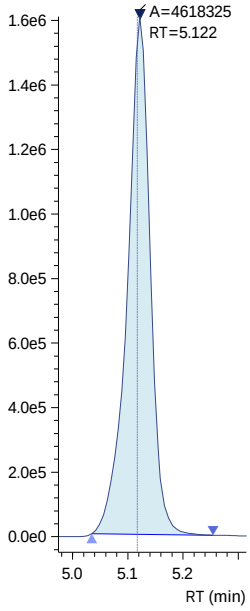


Insight Report
Before Manual Integration
Printed 9/9/2021 15:44:22

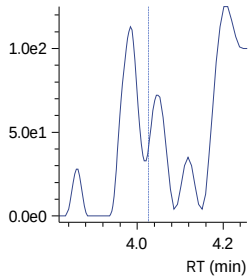
210909_016

Sample ID: CCB
Date Acquired: 9/9/2021 3:18:38 PM
Acquired by: System Administrator
Data File: 210909_016
Vial: 9 | Inj. Volume: 15.0000uL | Tray: 1

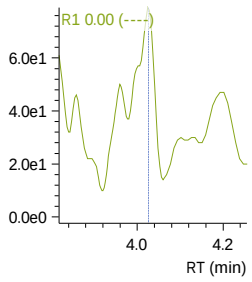
13C7-PFUnDA_IS
Conc 5.0000
ISTD 570.00>525.00 (-) 1.61e6



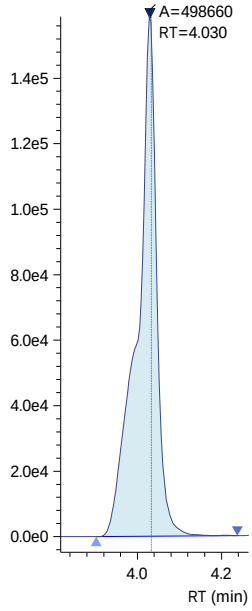
PFBS_1
Conc ----
R#1 0.00 (46.55)
Q 299.00>80.00 (-) 1.25e2



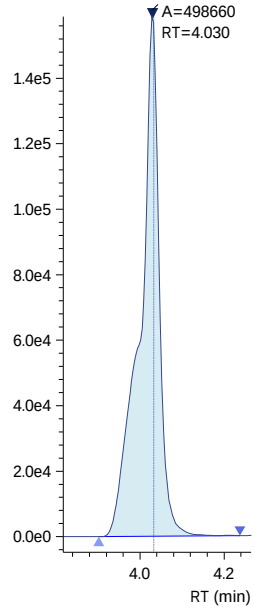
R1 298.80>99.00 (-) 7.90e1



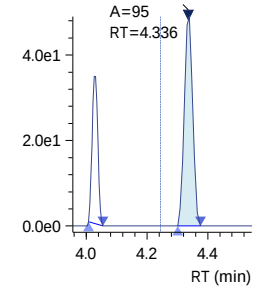
PFBS-13C
Conc 4.9661
Q 301.80>80.00 (-) 1.59e5



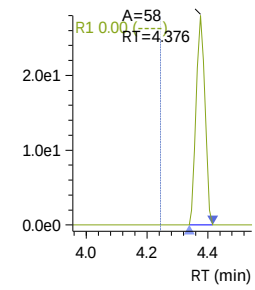
PFBS-13C_IS
Conc 5.0000
ISTD 301.80>80.00 (-) 1.59e5



PFPeS
Conc 0.0013
R#1 0.00 (154.38)
Q 349.00>99.00 (-) 4.90e1



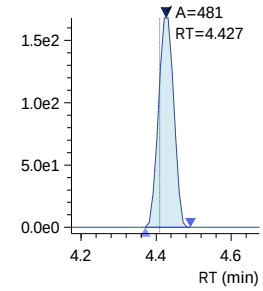
R1 349.00>79.95 (-) 2.80e1



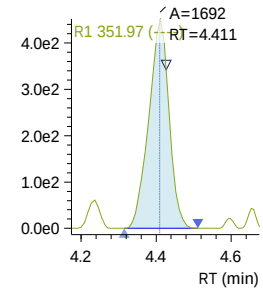
Insight Report
Before Manual Integration
Printed 9/9/2021 15:44:22

210909_016 (continued)

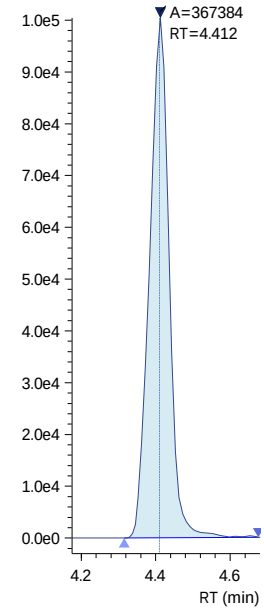
PFHxS_1
Conc 0.0037
R#1 351.97 (76.59)
Q 399.00>80.00 (-) 1.68e2



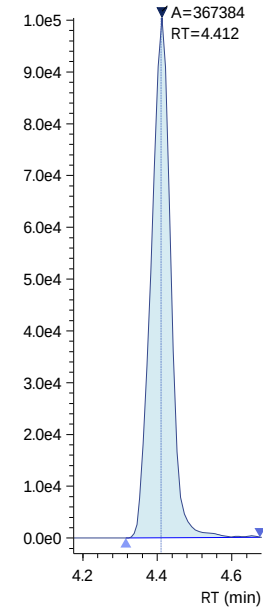
R1 399.00>99.00 (-) 4.52e2



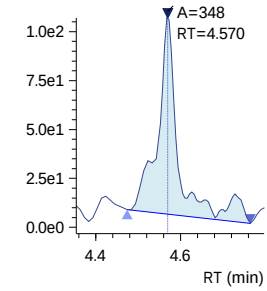
PFHxS-18O
Conc 5.1296
Q 402.70>84.05 (-) 1.00e5



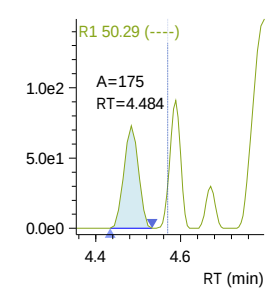
PFHxS-18O_IS
Conc 5.0000
ISTD 402.70>84.05 (-) 1.00e5



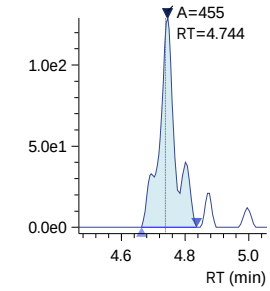
PFHpS_1
Conc 0.0027
R#1 50.29 (53.58)
Q 449.00>80.15 (-) 1.07e2



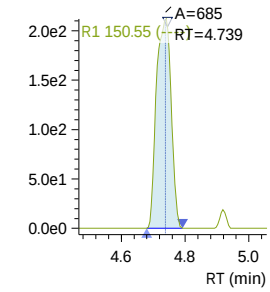
R1 449.00>99.20 (-) 1.49e2



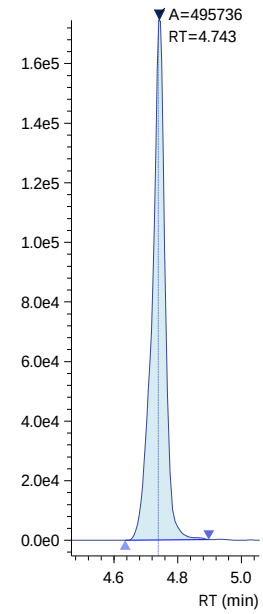
PFOS_1
Conc 0.0049
R#1 150.55 (84.68)
Q 499.00>80.00 (-) 1.29e2



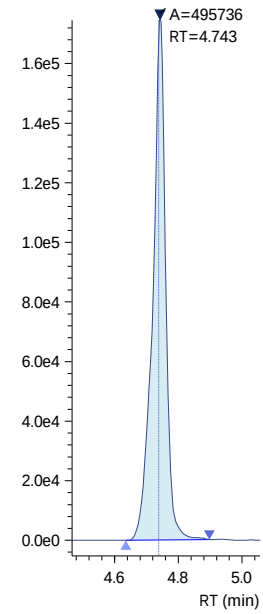
R1 499.00>99.00 (-) 2.12e2



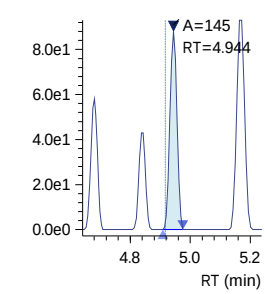
PFOS-13C
Conc 5.0652
Q 502.80>80.05 (-) 1.75e5



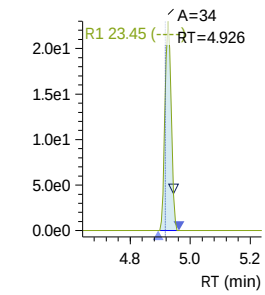
PFOS-13C_IS
Conc 5.0000
ISTD 502.80>80.05 (-) 1.75e5



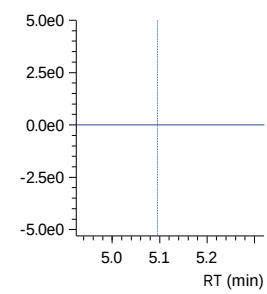
PFNS
Conc 0.0021
R#1 23.45 (133.04)
Q 549.00>99.00 (-) 9.30e1



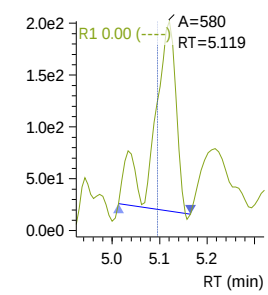
R1 549.00>79.95 (-) 2.30e1



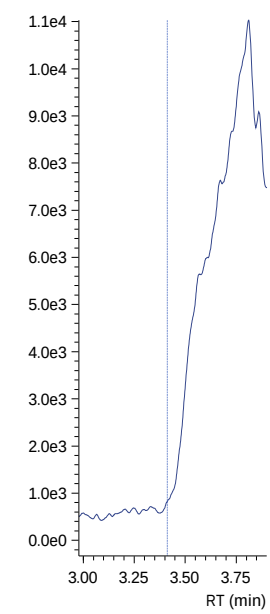
PFDS_1
Conc ----
R#1 0.00 (89.20)
Q 599.00>79.90 (-) 0.00e0



R1 599.00>99.10 (-) 2.02e2

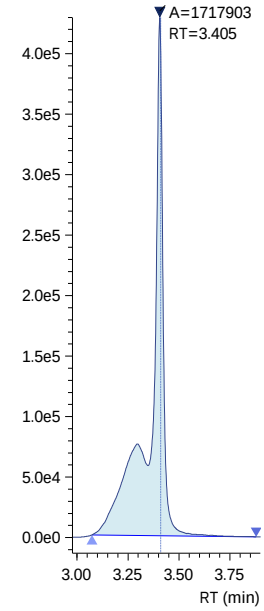


PFBA
Conc ----
Q 213.00>169.10 (-) 1.10e4

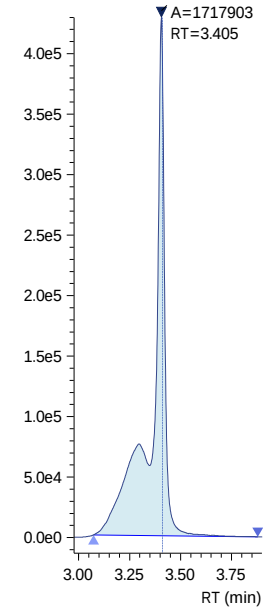


210909_016 (continued)

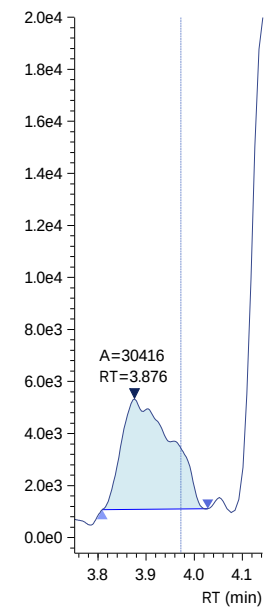
PFBA-13C
Conc 4.7688
Q 216.90>172.15 (-) 4.30e5



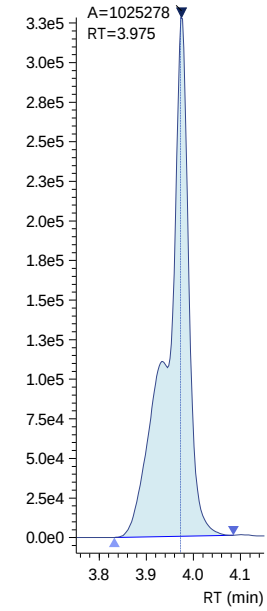
PFBA-13C_IS
Conc 5.0000
ISTD 216.90>172.15 (-) 4.30e5



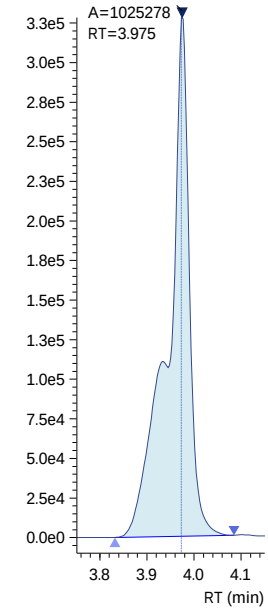
PFPeA
Conc 0.0141
Q 263.05>219.10 (-) 2.00e4



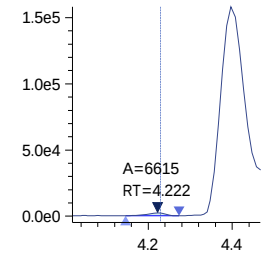
PFPeA-13C
Conc 4.9800
Q 267.90>223.00 (-) 3.29e5



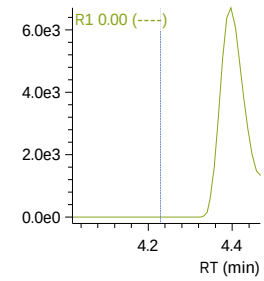
PFPeA-13C_IS
Conc 5.0000
ISTD 267.90>223.00 (-) 3.29e5



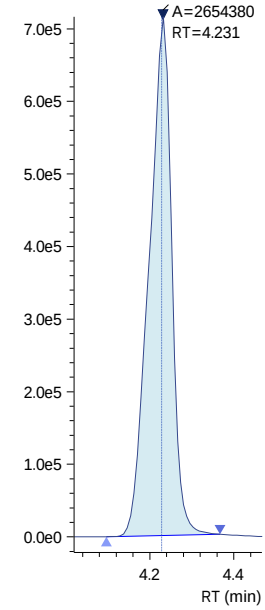
PFHxA
Conc 0.0095
R#1 0.00 (4.71)
Q 313.00>269.00 (-) 1.58e5



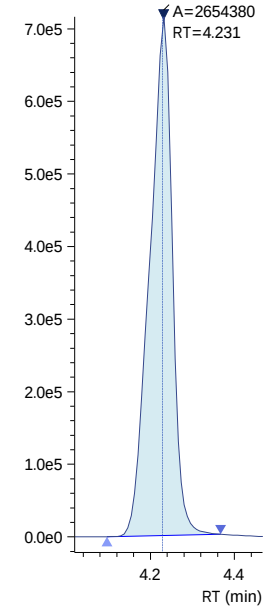
R1 313.00>119.10 (-) 6.71e3



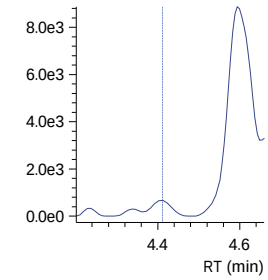
PFHxA-13C
Conc 4.5437
Q 314.90>270.10 (-) 7.17e5



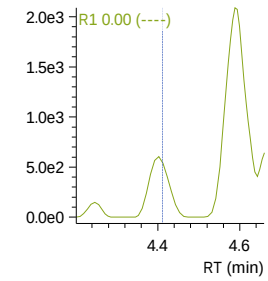
PFHxA-13C_IS
Conc 5.0000
ISTD 314.90>270.10 (-) 7.17e5



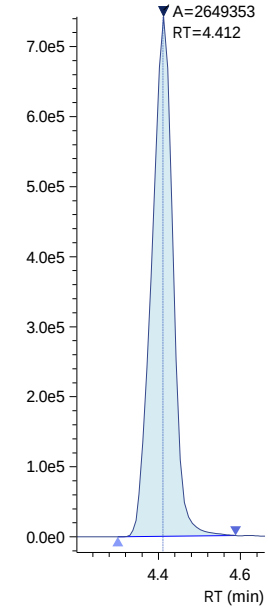
PFHpA
Conc ----
R#1 0.00 (24.79)
Q 362.90>319.00 (-) 8.87e3



R1 362.90>169.00 (-) 2.09e3



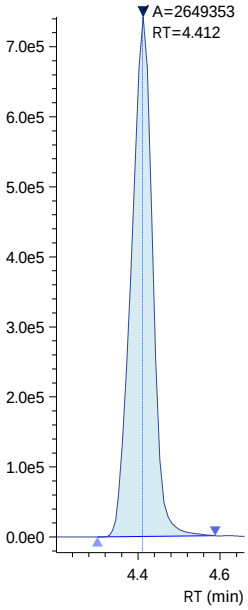
PFHpA-13C
Conc 5.0007
Q 366.90>322.10 (-) 7.43e5



210909_016 (continued)

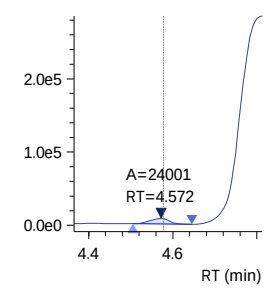
PFHpA-13C_IS
Conc 5.0000

ISTD 366.90>322.10 (-) 7.43e5

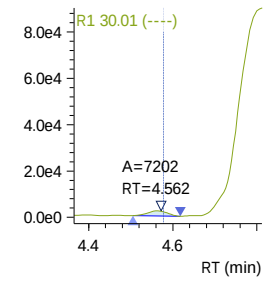


PFOA
Conc 0.0266
R#1 30.01 (30.61)

Q 413.00>369.00 (-) 2.86e5

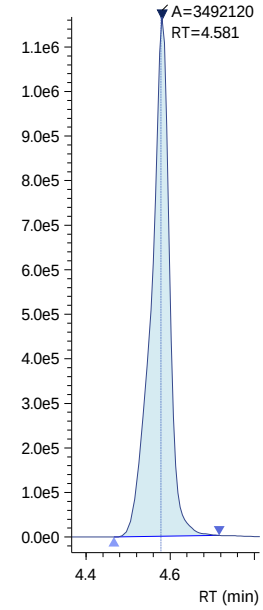


R1 413.00>169.10 (-) 9.04e4



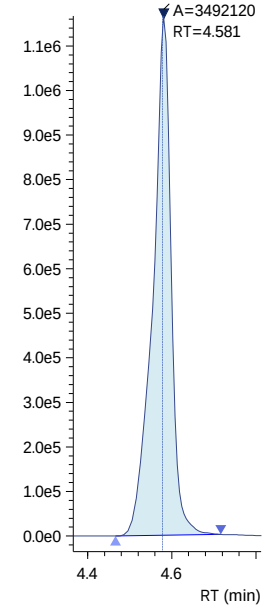
PFOA-13C
Conc 4.9304

Q 416.80>372.05 (-) 1.17e6



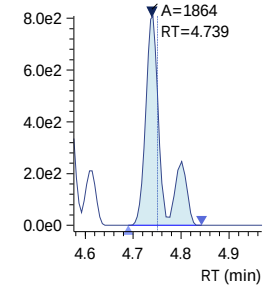
PFOA-13C_IS
Conc 5.0000

ISTD 416.80>372.05 (-) 1.17e6

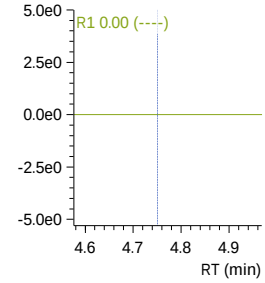


PFNA
Conc 0.0031
R#1 0.00 (23.82)

Q 463.00>418.90 (-) 8.09e2

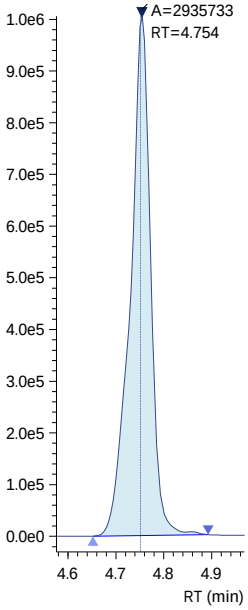


R1 463.00>219.00 (-) 0.00e0



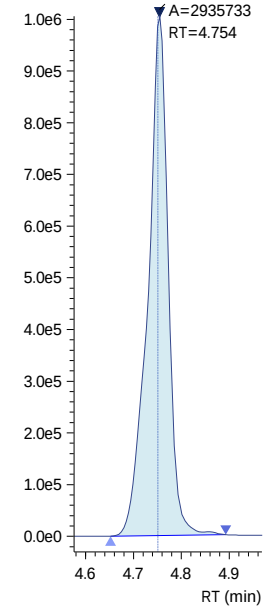
PFNA-13C
Conc 4.8109

Q 467.80>423.00 (-) 1.01e6



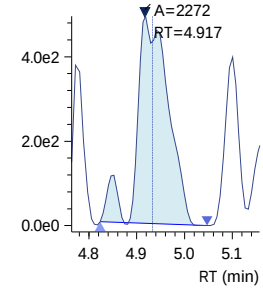
PFNA-13C_IS
Conc 5.0000

ISTD 467.80>423.00 (-) 1.01e6

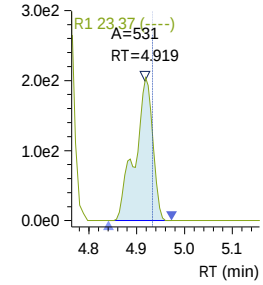


PFDA
Conc 0.0035
R#1 23.37 (20.11)

Q 513.00>468.80 (-) 4.96e2

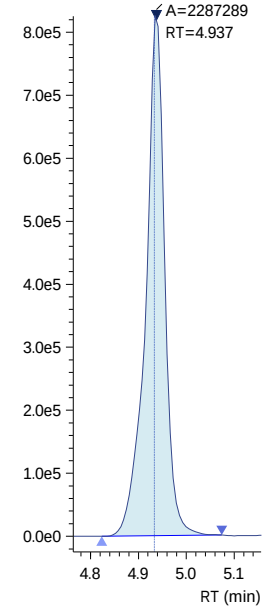


R1 513.00>219.10 (-) 2.99e2



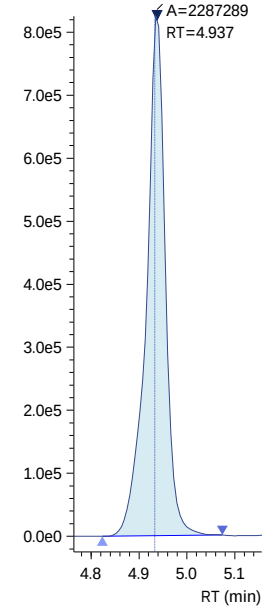
PFDA-13C
Conc 5.3912

Q 514.80>469.95 (-) 8.25e5



PFDA-13C_IS
Conc 5.0000

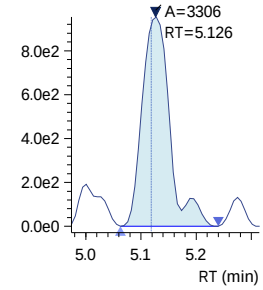
ISTD 514.80>469.95 (-) 8.25e5



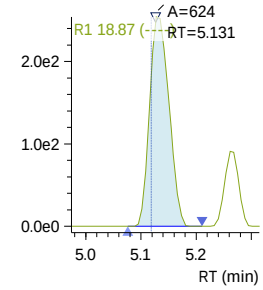
Insight Report
Before Manual Integration
Printed 9/9/2021 15:44:22

210909_016 (continued)

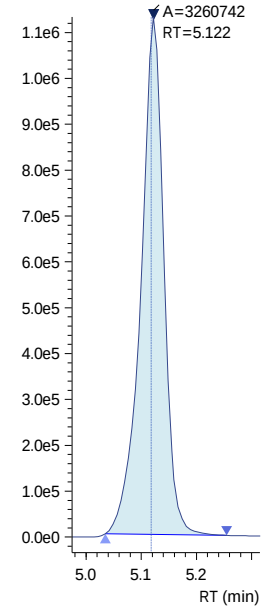
PFUnA
Conc 0.0046
R#1 18.87 (13.40)
Q 563.00>518.90 (-) 9.54e2



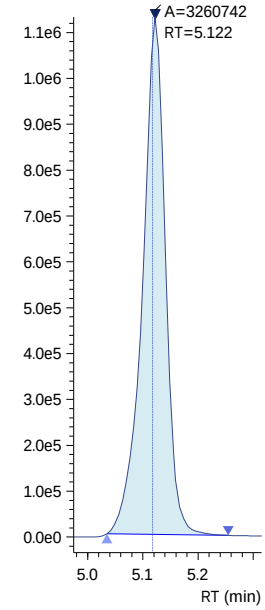
R1 563.00>219.00 (-) 2.54e2



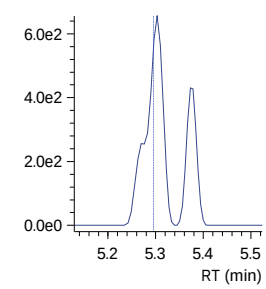
PFUnA-13C
Conc 5.0972



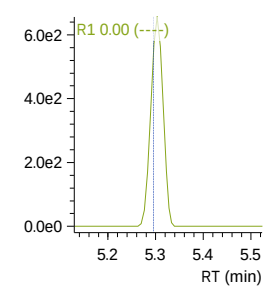
PFUnA-13C_IS
Conc 5.0000
ISTD 564.80>519.95 (-) 1.13e6



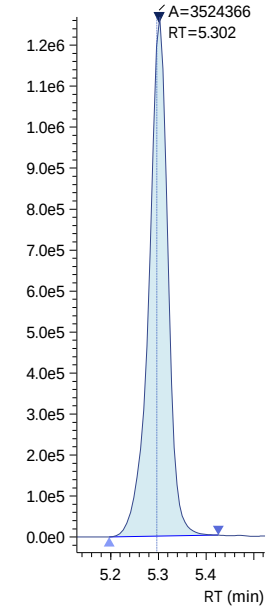
PFDoA
Conc ----
R#1 0.00 (17.67)
Q 613.05>569.00 (-) 6.56e2



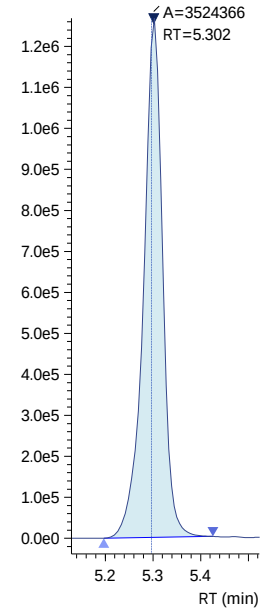
R1 613.05>169.00 (-) 6.56e2



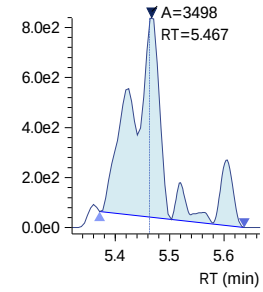
PFDoA-13C
Conc 4.9947
Q 614.80>569.95 (-) 1.27e6



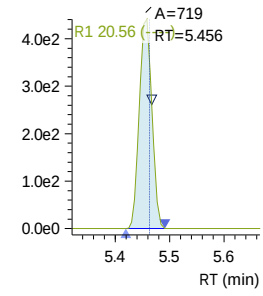
PFDoA-13C_IS
Conc 5.0000
ISTD 614.80>569.95 (-) 1.27e6



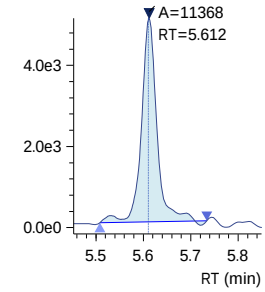
PFTrDA
Conc 0.0048
R#1 20.56 (14.03)
Q 663.00>618.90 (-) 8.37e2



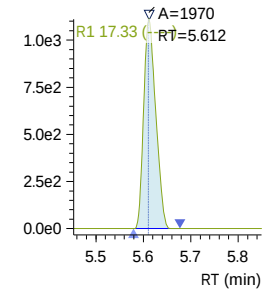
R1 662.90>169.00 (-) 4.41e2



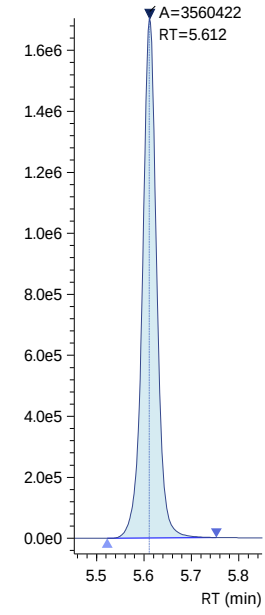
PFTeDA
Conc 0.0144
R#1 17.33 (16.71)
Q 713.00>669.00 (-) 5.16e3



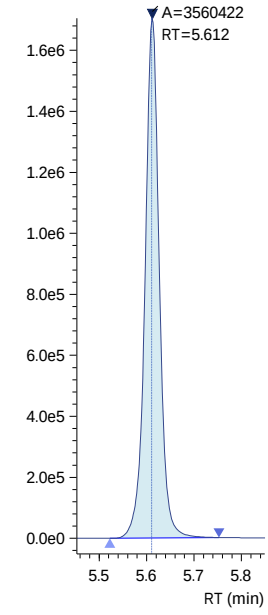
R1 713.00>169.10 (-) 1.11e3



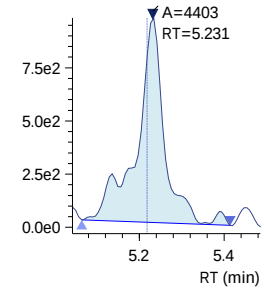
PFTeDA-13C
Conc 5.0290
Q 714.70>669.90 (-) 1.71e6

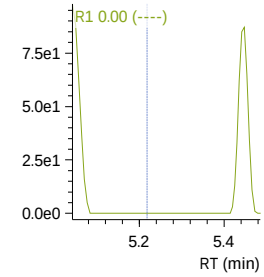


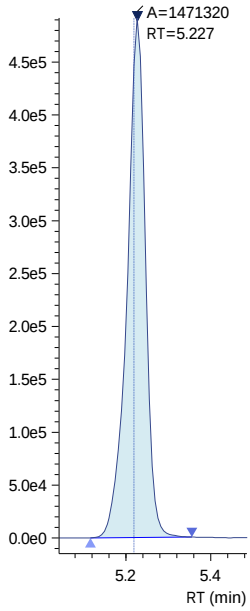
PFTeDA-13C_IS
Conc 5.0000
ISTD 714.70>669.90 (-) 1.71e6

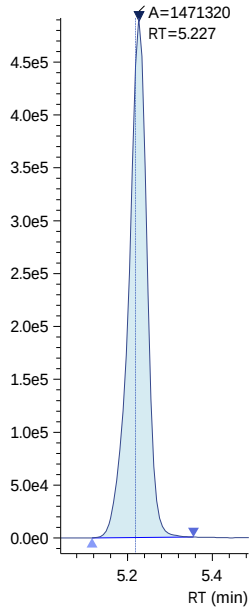


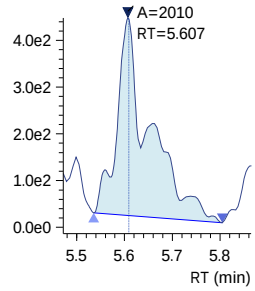
210909_016 (continued)

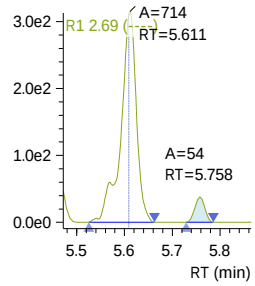
FOSA
Conc 0.0125
R#1 0.00 (4.71)
Q 498.20>78.00 (-) 9.84e2


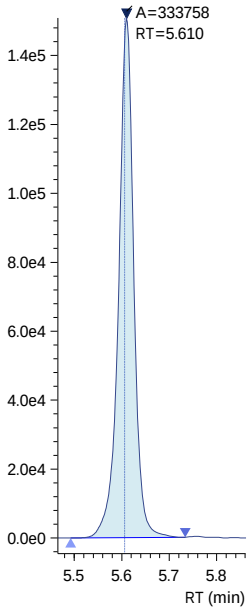
R1 498.20>64.10 (-) 9.80e1


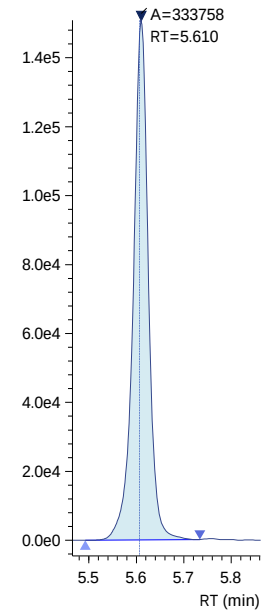
FOSA-13C
Conc 5.0088
Q 506.00>78.05 (-) 4.92e5


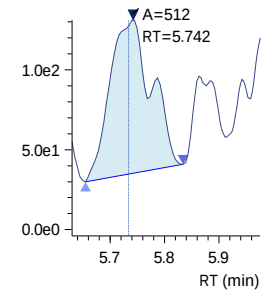
FOSA-13C_IS
Conc 5.0000
ISTD 506.00>78.05 (-) 4.92e5


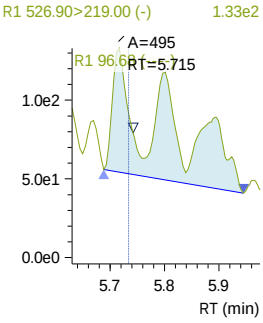
N-MeFOSA
Conc 0.0158
R#1 2.69 (66.26)
Q 512.00>169.10 (-) 4.48e2


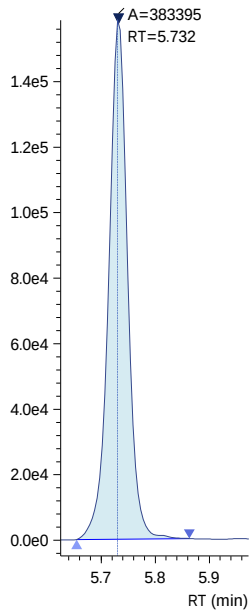
R1 512.00>219.00 (-) 3.13e2


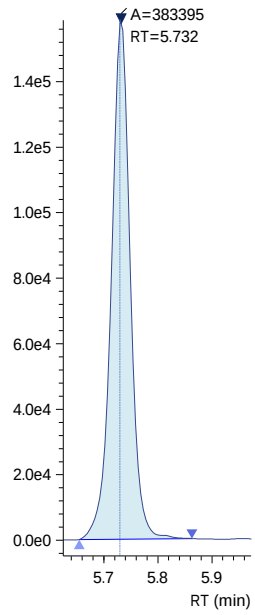
N-MeFOSA-d3
Conc 5.0638
Q 514.90>168.90 (-) 1.51e5


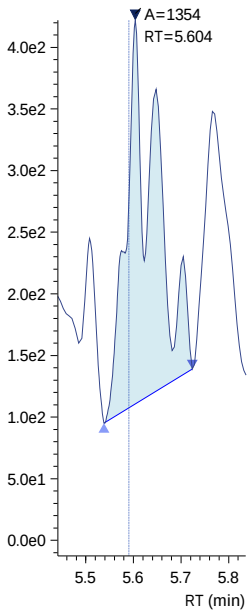
N-MeFOSA-d3_IS
Conc 5.0000
ISTD 514.90>168.90 (-) 1.51e5


N-MeFOSA
Conc 0.0214
R#1 96.68 (64.28)
Q 526.90>169.10 (-) 1.31e2


R1 526.90>219.00 (-) 1.33e2


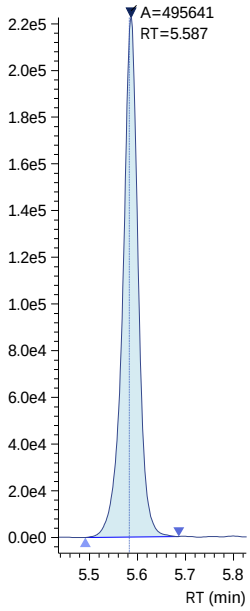
N-EtFOSA-d9
Conc 4.9931
Q 530.90>169.15 (-) 1.59e5


N-EtFOSA-d9_IS
Conc 5.0000
ISTD 530.90>169.15 (-) 1.59e5


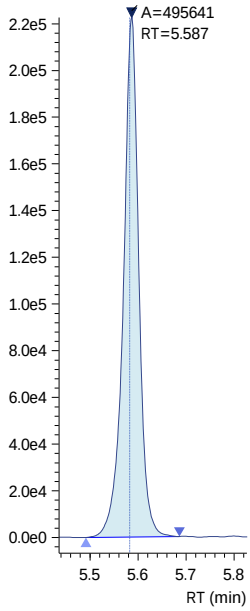
N-MeFOSE
Conc 0.0075
Q 616.00>59.00 (-) 4.22e2


210909_016 (continued)

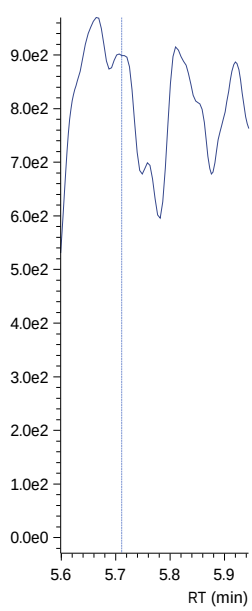
N-MeFOSE-d7
Conc 4.8836
Q 622.70>59.10 (-) 2.23e5



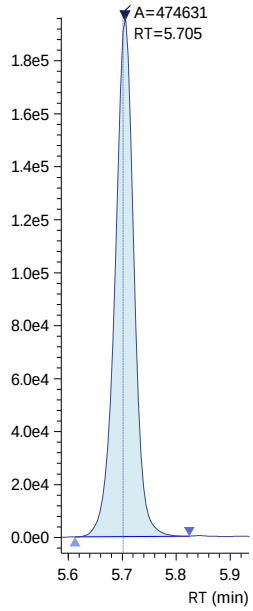
N-MeFOSE-d7_IS
Conc 5.0000
ISTD 622.70>59.10 (-) 2.23e5



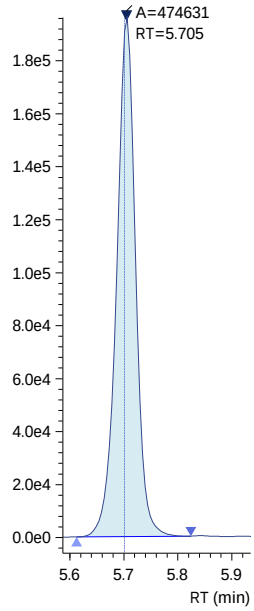
N-EtFOSE
Conc ----
Q 630.00>58.90 (-) 9.70e2



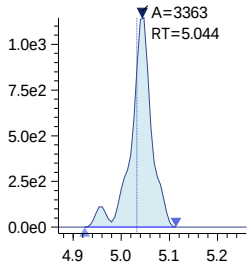
N-EtFOSE-d9
Conc 4.9384
Q 638.70>59.10 (-) 1.96e5



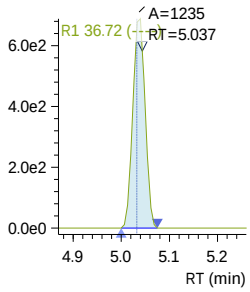
N-EtFOSE-d9_IS
Conc 5.0000
ISTD 638.70>59.10 (-) 1.96e5



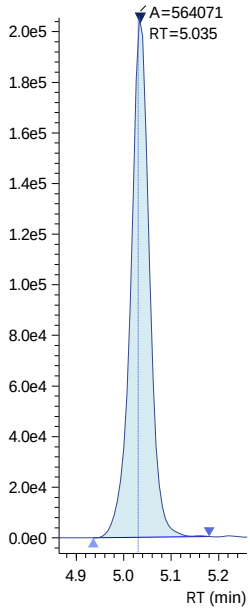
N-MeFOSAA
Conc 0.0453
R#1 36.72 (39.15)
Q 570.20>419.00 (-) 1.15e3



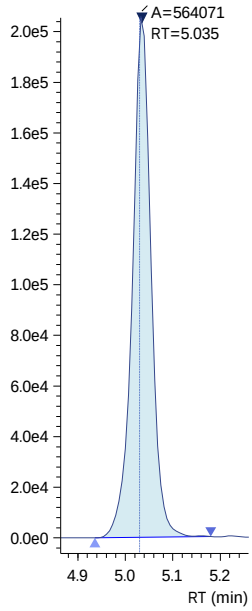
R1 570.20>512.00 (-) 6.88e2



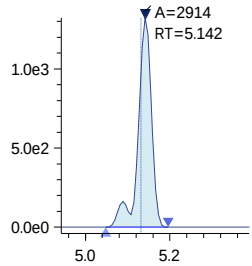
N-MeFOSAA-d3
Conc 4.8378
Q 572.80>419.05 (-) 2.05e5



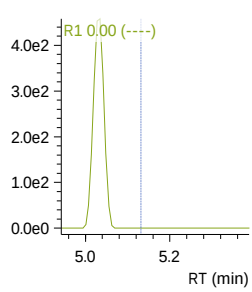
N-MeFOSAA-d3_IS
Conc 5.0000
ISTD 572.80>419.05 (-) 2.05e5



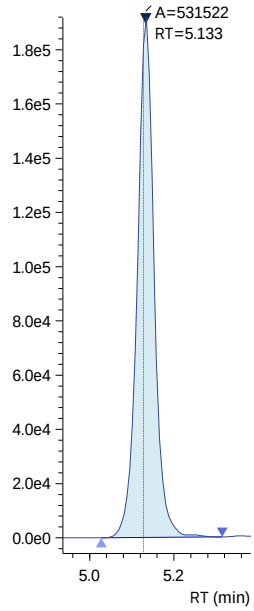
N-EtFOSAA
Conc 0.0619
R#1 0.00 (76.53)
Q 584.20>418.95 (-) 1.32e3



R1 584.20>526.10 (-) 4.58e2

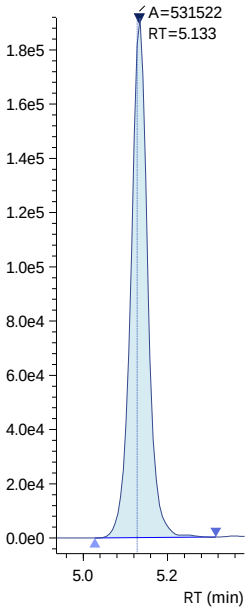


N-EtFOSAA-d5
Conc 5.3910
Q 588.80>419.00 (-) 1.92e5

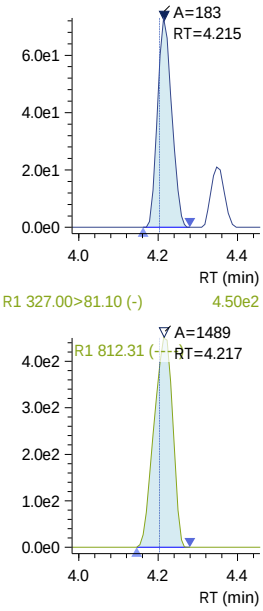


210909_016 (continued)

N-EtFOSAA-d5_IS
Conc 5.0000
ISTD 588.80>419.00 (-) 1.92e5

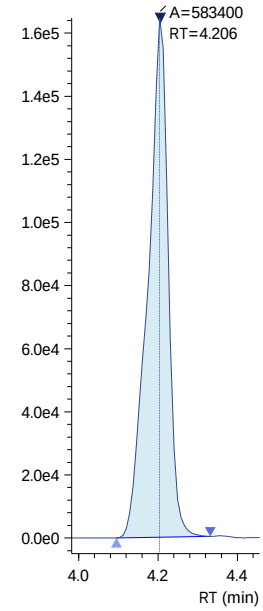


4_2-FTS_1
Conc 0.0017
R#1 812.31 (26.47)
Q 327.00>307.05 (-) 7.30e1

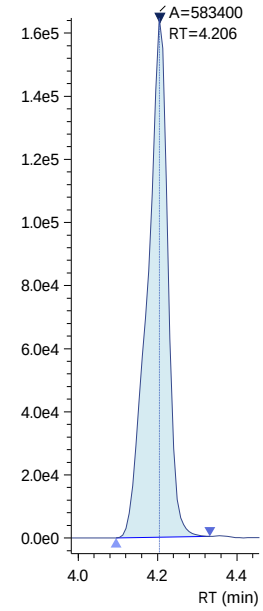


R1 327.00>81.10 (-) 4.50e2

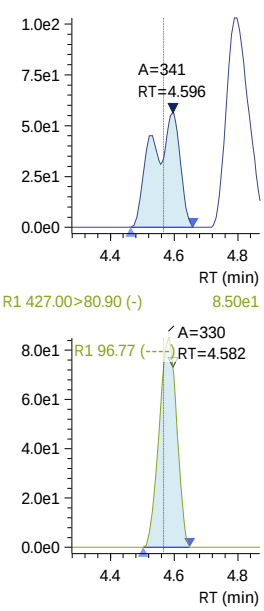
4_2-FTS-13C
Conc 5.3386
Q 328.80>309.05 (-) 1.65e5



4_2-FTS-13C_IS
Conc 5.0000
ISTD 328.80>309.05 (-) 1.65e5

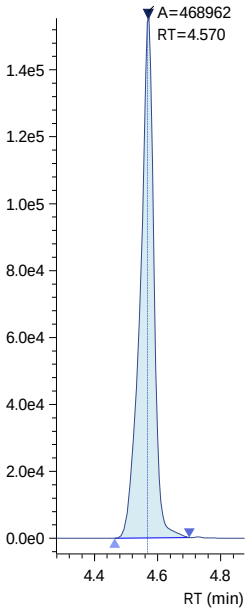


6_2-FTS_1
Conc 0.0028
R#1 96.77 (30.68)
Q 427.00>407.00 (-) 1.03e2

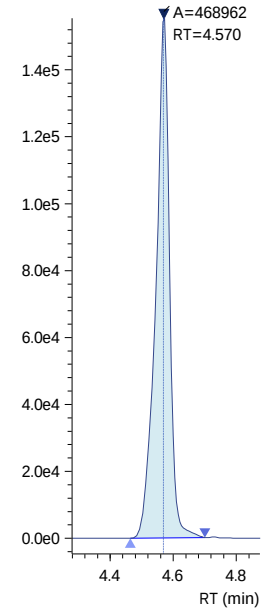


R1 427.00>80.90 (-) 8.50e1

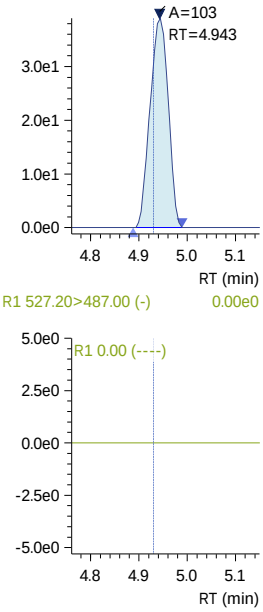
6_2-FTS-13C
Conc 5.0793
Q 428.90>409.00 (-) 1.55e5



6_2-FTS-13C_IS
Conc 5.0000
ISTD 428.90>409.00 (-) 1.55e5

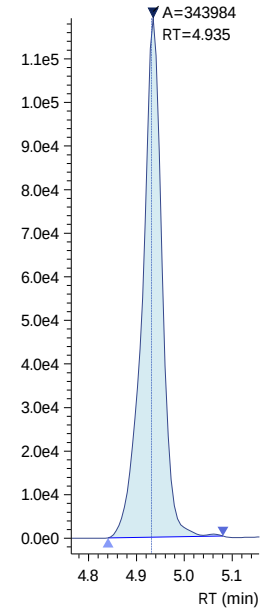


8_2-FTS_1
Conc 0.0016
R#1 0.00 (8.90)
Q 527.10>506.90 (-) 3.90e1

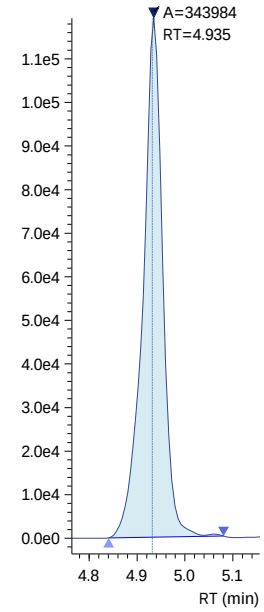


R1 527.20>487.00 (-) 0.00e0

8_2-FTS-13C
Conc 5.1250
Q 528.80>509.00 (-) 1.19e5



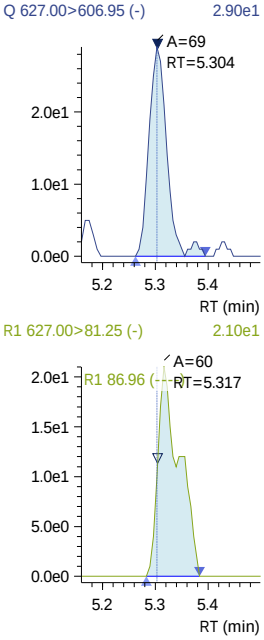
8_2-FTS-13C_IS
Conc 5.0000
ISTD 528.80>509.00 (-) 1.19e5



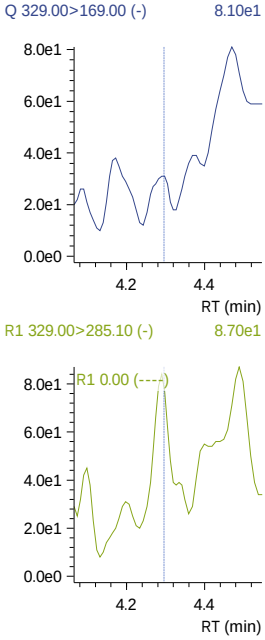
Insight Report
Before Manual Integration
Printed 9/9/2021 15:44:22

210909_016 (continued)

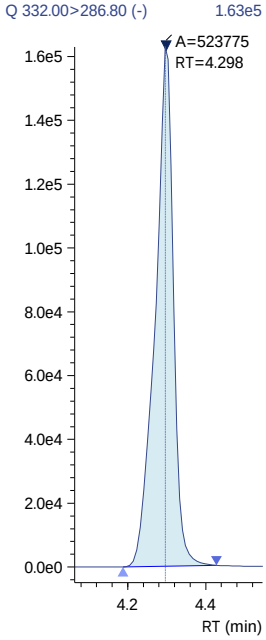
10_2-FtS_1
Conc 0.0013
R#1 86.96 (26.33)



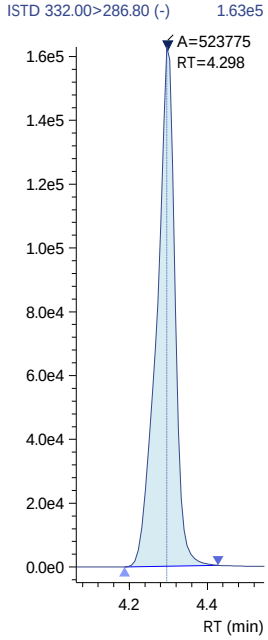
HPFO_DA
Conc ----
R#1 0.00 (103.01)



HFPO_DA-13C
Conc 5.2926



HFPO_DA-13C_IS
Conc 5.0000



Insight Report
Retention Time/Signal:Noise Ratio Confirmation
Printed 9/9/2021 16:28:51

210909_017

Sample ID: PFC ICV @ 1.0ppb
Date Acquired: 9/9/2021 3:29:03 PM
Acquired by: System Administrator
Data File: 210909_017
Vial: 8 | Inj. Volume: 15.0000uL | Tray: 0

Name	m/z	Ref 1 m/z	Found RT	RT Diff	ISTD RT Diff	S/N	Ref 1 S/N	Flag ID
13C7-PFUnDA_IS	570.00>525.00	----	5.119	0.002	----	42304	----	
PFBS_1	299.00>80.00	298.80>99.00	4.026	-0.001	0.000	3477	4050	
PFBS-13C	301.80>80.00	----	4.026	-0.007	-1.093	(INF)	----	
PFBS-13C_IS	301.80>80.00	----	4.026	-0.007	----	(INF)	----	
PFPeS	349.00>99.00	349.00>79.95	4.244	-0.001	0.218	(INF)	(INF)	
PFHxS_1	399.00>80.00	399.00>99.00	4.407	-0.003	-0.002	14287	(INF)	
PFHxS-18O	402.70>84.05	----	4.409	-0.001	-0.710	(INF)	----	
PFHxS-18O_IS	402.70>84.05	----	4.409	-0.001	----	(INF)	----	
PFHpS_1	449.00>80.15	449.00>99.20	4.568	-0.002	0.159	(INF)	(INF)	
PFOS_1	499.00>80.00	499.00>99.00	4.738	0.000	0.001	(INF)	(INF)	
PFOS-13C	502.80>80.05	----	4.737	-0.002	-0.382	1149402	----	
PFOS-13C_IS	502.80>80.05	----	4.737	-0.002	----	1149402	----	
PFNS	549.00>99.00	549.00>79.95	4.916	0.000	0.179	1378	(INF)	
PFDS_1	599.00>79.90	599.00>99.10	5.097	0.002	0.360	(INF)	17457	
PFBA	213.00>169.10	----	3.411	0.000	0.000	67	----	
PFBA-13C	216.90>172.15	----	3.411	0.001	-1.708	20916	----	
PFBA-13C_IS	216.90>172.15	----	3.411	0.001	----	20916	----	
PFPeA	263.05>219.10	----	3.972	-0.001	0.000	1026	----	
PFPeA-13C	267.90>223.00	----	3.972	-0.001	-1.147	25516	----	
PFPeA-13C_IS	267.90>223.00	----	3.972	-0.001	----	25516	----	
PFHxA	313.00>269.00	313.00>119.10	4.228	-0.001	0.000	2620	(INF)	
PFHxA-13C	314.90>270.10	----	4.228	-0.001	-0.891	15040	----	
PFHxA-13C_IS	314.90>270.10	----	4.228	-0.001	----	15040	----	
PFHpA	362.90>319.00	362.90>169.00	4.409	-0.003	0.000	738	(INF)	
PFHpA-13C	366.90>322.10	----	4.409	-0.002	-0.710	38253	----	
PFHpA-13C_IS	366.90>322.10	----	4.409	-0.002	----	38253	----	
PFOA	413.00>369.00	413.00>169.10	4.576	-0.002	0.000	1521	4057	
PFOA-13C	416.80>372.05	----	4.576	-0.002	-0.543	43137	----	
PFOA-13C_IS	416.80>372.05	----	4.576	-0.002	----	43137	----	
PFNA	463.00>418.90	463.00>219.00	4.750	-0.001	0.000	179801	(INF)	
PFNA-13C	467.80>423.00	----	4.750	-0.001	-0.369	24140	----	
PFNA-13C_IS	467.80>423.00	----	4.750	-0.001	----	24140	----	
PFDA	513.00>468.80	513.00>219.10	4.934	0.001	0.000	20359	(INF)	
PFDA-13C	514.80>469.95	----	4.934	0.001	-0.185	986226	----	
PFDA-13C_IS	514.80>469.95	----	4.934	0.001	----	986226	----	
PFUnA	563.00>518.90	563.00>219.00	5.119	0.001	0.000	31585	(INF)	
PFUnA-13C	564.80>519.95	----	5.119	0.001	0.000	20237	----	
PFUnA-13C_IS	564.80>519.95	----	5.119	0.001	----	20237	----	
PFDoA	613.05>569.00	613.05>169.00	5.299	0.003	0.000	(INF)	(INF)	
PFDoA-13C	614.80>569.95	----	5.299	0.002	0.180	57839	----	
PFDoA-13C_IS	614.80>569.95	----	5.299	0.002	----	57839	----	
PFTrDA	663.00>618.90	662.90>169.00	5.462	-0.001	-0.147	(INF)	(INF)	
PFTeDA	713.00>669.00	713.00>169.10	5.609	-0.002	0.000	28957	(INF)	
PFTeDA-13C	714.70>669.90	----	5.609	-0.002	0.490	986639	----	
PFTeDA-13C_IS	714.70>669.90	----	5.609	-0.002	----	854981	----	
FOSA	498.20>78.00	498.20>64.10	5.221	0.003	0.000	(INF)	(INF)	
FOSA-13C	506.00>78.05	----	5.221	0.002	0.102	3530	----	
FOSA-13C_IS	506.00>78.05	----	5.221	0.002	----	3530	----	
N-MeFOSA	512.00>169.10	512.00>219.00	5.608	-0.001	0.003	(INF)	(INF)	
N-MeFOSA-d3	514.90>168.90	----	5.605	-0.001	0.486	1272	----	
N-MeFOSA-d3_IS	514.90>168.90	----	5.605	-0.001	----	1272	----	

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SN - Software-calculated S/N ratio outside criteria due to non-target peaks or drift in noise calculation window. Analyst review of noise levels (excluding non-target peaks) in chromatogram indicates S/N ratio meets criteria.

Insight Report
Retention Time/Signal:Noise Ratio Confirmation
Printed 9/9/2021 16:28:51

210909_017 (continued)

(Table continued from previous page)

Name	m/z	Ref 1 m/z	Found RT	RT Diff	ISTD RT Diff	S/N	Ref 1 S/N	Flag ID
N-EtFOSA	526.90>169.10	526.90>219.00	5.732	-0.002	0.005	(INF)	(INF)	
N-EtFOSA-d9	530.90>169.15	----	5.727	-0.003	0.608	2163	----	
N-EtFOSA-d9_IS	530.90>169.15	----	5.727	-0.003	----	2163	----	
N-MeFOSE	616.00>59.00	----	5.589	-0.001	0.007	1250	----	
N-MeFOSE-d7	622.70>59.10	----	5.582	-0.001	0.463	3798	----	
N-MeFOSE-d7_IS	622.70>59.10	----	5.582	-0.001	----	3798	----	
N-EtFOSE	630.00>58.90	----	5.710	-0.001	0.010	1382	----	
N-EtFOSE-d9	638.70>59.10	----	5.700	-0.001	0.581	4383	----	
N-EtFOSE-d9_IS	638.70>59.10	----	5.700	-0.001	----	4383	----	
N-MeFOSAA	570.20>419.00	570.20>512.00	5.034	0.001	0.002	(INF)	(INF)	
N-MeFOSAA-d3	572.80>419.05	----	5.032	0.002	-0.087	(INF)	----	
N-MeFOSAA-d3_IS	572.80>419.05	----	5.032	0.002	----	(INF)	----	
N-EtFOSAA	584.20>418.95	584.20>526.10	5.132	0.000	0.001	(INF)	(INF)	
N-EtFOSAA-d5	588.80>419.00	----	5.131	0.003	0.012	(INF)	----	
N-EtFOSAA-d5_IS	588.80>419.00	----	5.131	0.003	----	(INF)	----	
4_2-FTS_1	327.00>307.05	327.00>81.10	4.203	0.000	0.000	(INF)	(INF)	
4_2-FTS-13C	328.80>309.05	----	4.203	-0.001	-0.916	(INF)	----	
4_2-FTS-13C_IS	328.80>309.05	----	4.203	-0.001	----	(INF)	----	
6_2-FTS_1	427.00>407.00	427.00>80.90	4.565	-0.002	-0.001	(INF)	(INF)	
6_2-FTS-13C	428.90>409.00	----	4.566	-0.002	-0.553	(INF)	----	
6_2-FTS-13C_IS	428.90>409.00	----	4.566	-0.002	----	(INF)	----	
8_2-FTS_1	527.10>506.90	527.20>487.00	4.931	0.001	-0.002	32360	(INF)	
8_2-FTS-13C	528.80>509.00	----	4.933	0.001	-0.186	35823	----	
8_2-FTS-13C_IS	528.80>509.00	----	4.933	0.001	----	35823	----	
10_2-FtS_1	627.00>606.95	627.00>81.25	5.306	0.003	0.373	(INF)	(INF)	
HPFO_DA	329.00>169.00	329.00>285.10	4.295	-0.001	0.000	54105	2077	
HFPO_DA-13C	332.00>286.80	----	4.295	-0.001	-0.824	25844	----	
HFPO_DA-13C_IS	332.00>286.80	----	4.295	-0.001	----	25844	----	

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SN - Software-calculated S/N ratio outside criteria due to non-target peaks or drift in noise calculation window. Analyst review of noise levels (excluding non-target peaks) in chromatogram indicates S/N ratio meets criteria.

Insight Report
Ion Ratio Confirmation
Printed 9/9/2021 16:29:39

210909_017

Sample ID: PFC ICV @ 1.0ppb
Date Acquired: 9/9/2021 3:29:03 PM
Acquired by: System Administrator
Data File: 210909_017
Vial: 8 | Inj. Volume: 15.0000uL | Tray: 0

Name	m/z	Ref 1 m/z	Area	Ref 1 Measured	Ref 1 Actual Ratio	Ref 1 Set Ratio	Comment 1	Flag ID
13C7-PFUnDA_IS	570.00>525.00	----	5403792	----	----	----		
PFBS_1	299.00>80.00	298.80>99.00	176530	83022	47.03	49.34	24.67-74.01	
PFBS-13C	301.80>80.00	----	536502	----	----	----	0-0	
PFBS-13C_IS	301.80>80.00	----	536502	----	----	----	0-0	
PFPeS	349.00>99.00	349.00>79.95	74479	124842	167.62	151.30	75.65 -226.95	
PFHxS_1	399.00>80.00	399.00>99.00	106004	73768	69.59	62.92	31.46-94.38	
PFHxS-18O	402.70>84.05	----	391798	----	----	----	0-0	
PFHxS-18O_IS	402.70>84.05	----	391798	----	----	----	0-0	
PFHpS_1	449.00>80.15	449.00>99.20	138787	59429	42.82	40.53	20.26-60.79	
PFOS_1	499.00>80.00	499.00>99.00	99911	78237	78.31	73.81	36.91 -110.72	
PFOS-13C	502.80>80.05	----	518767	----	----	----	0-0	
PFOS-13C_IS	502.80>80.05	----	518767	----	----	----	0-0	
PFNS	549.00>99.00	549.00>79.95	80406	115520	143.67	160.25	80.13 -240.38	
PFDS_1	599.00>79.90	599.00>99.10	134109	90467	67.46	72.12	36.06 -108.19	
PFBA	213.00>169.10	----	415281	----	----	----		
PFBA-13C	216.90>172.15	----	1923808	----	----	----		
PFBA-13C_IS	216.90>172.15	----	1923808	----	----	----		
PFPeA	263.05>219.10	----	709891	----	----	----		
PFPeA-13C	267.90>223.00	----	1096109	----	----	----	0-0	
PFPeA-13C_IS	267.90>223.00	----	1096109	----	----	----	0-0	
PFHxA	313.00>269.00	313.00>119.10	811345	28522	3.52	4.40	2.2-6.61	
PFHxA-13C	314.90>270.10	----	3164919	----	----	----	0-0	
PFHxA-13C_IS	314.90>270.10	----	3164919	----	----	----	0-0	
PFHpA	362.90>319.00	362.90>169.00	694952	156577	22.53	24.40	12.2-36.6	
PFHpA-13C	366.90>322.10	----	2824283	----	----	----	0-0	
PFHpA-13C_IS	366.90>322.10	----	2824283	----	----	----	0-0	
PFOA	413.00>369.00	413.00>169.10	998180	319378	32.00	31.89	15.94-47.83	
PFOA-13C	416.80>372.05	----	3801850	----	----	----	0-0	
PFOA-13C_IS	416.80>372.05	----	3801850	----	----	----	0-0	
PFNA	463.00>418.90	463.00>219.00	729178	192823	26.44	23.25	11.63-34.88	
PFNA-13C	467.80>423.00	----	3297152	----	----	----	0-0	
PFNA-13C_IS	467.80>423.00	----	3297152	----	----	----	0-0	
PFDA	513.00>468.80	513.00>219.10	634459	150394	23.70	20.24	10.12-30.36	
PFDA-13C	514.80>469.95	----	2296849	----	----	----	0-0	
PFDA-13C_IS	514.80>469.95	----	2296849	----	----	----	0-0	
PFUnA	563.00>518.90	563.00>219.00	813455	104371	12.83	12.46	6.23-18.69	
PFUnA-13C	564.80>519.95	----	3500794	----	----	----	0-0	
PFUnA-13C_IS	564.80>519.95	----	3500794	----	----	----	0-0	
PFDoA	613.05>569.00	613.05>169.00	673282	120903	17.96	16.50	8.25-24.76	
PFDoA-13C	614.80>569.95	----	3712961	----	----	----	0-0	
PFDoA-13C_IS	614.80>569.95	----	3712961	----	----	----	0-0	
PFTrDA	663.00>618.90	662.90>169.00	842632	134241	15.93	15.29	7.65-22.94	
PFTeDA	713.00>669.00	713.00>169.10	852968	146937	17.23	17.47	8.73-26.2	
PFTeDA-13C	714.70>669.90	----	3809424	----	----	----	0-0	
PFTeDA-13C_IS	714.70>669.90	----	3809424	----	----	----	0-0	
FOSA	498.20>78.00	498.20>64.10	422146	23087	5.47	5.19	2.6-7.79	
FOSA-13C	506.00>78.05	----	1583073	----	----	----	0-0	

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Comment 1 field specifies acceptance range for Ref 1 ratio.
IRr - Ion ratio outside criteria. Exceedances for results above the MDL to be "K" flagged in the analytical report.

Insight Report
Ion Ratio Confirmation
Printed 9/9/2021 16:29:39

210909_017 (continued)

(Table continued from previous page)

Name	m/z	Ref 1 m/z	Area	Ref 1 Measured	Ref 1 Actual Ratio	Ref 1 Set Ratio	Comment 1	Flag ID
FOSA-13C_IS	506.00>78.05	----	1583073	----	----	----	0-0	
N-MeFOSA	512.00>169.10	512.00>219.00	136018	90934	66.85	69.94	34.97 -104.91	
N-MeFOSA-d3	514.90>168.90	----	349535	----	----	----	0-0	
N-MeFOSA-d3_IS	514.90>168.90	----	349535	----	----	----	0-0	
N-EtFOSA	526.90>169.10	526.90>219.00	23868	16560	69.38	66.52	33.26-99.77	
N-EtFOSA-d9	530.90>169.15	----	394741	----	----	----	0-0	
N-EtFOSA-d9_IS	530.90>169.15	----	394741	----	----	----	0-0	
N-MeFOSE	616.00>59.00	----	201587	----	----	----		
N-MeFOSE-d7	622.70>59.10	----	554772	----	----	----		
N-MeFOSE-d7_IS	622.70>59.10	----	554772	----	----	----		
N-EtFOSE	630.00>58.90	----	180689	----	----	----		
N-EtFOSE-d9	638.70>59.10	----	501867	----	----	----	0-0	
N-EtFOSE-d9_IS	638.70>59.10	----	501867	----	----	----	0-0	
N-MeFOSAA	570.20>419.00	570.20>512.00	130316	53411	40.99	39.56	19.78-59.34	
N-MeFOSAA-d3	572.80>419.05	----	611839	----	----	----	0-0	
N-MeFOSAA-d3 _IS	572.80>419.05	----	611839	----	----	----	0-0	
N-EtFOSAA	584.20>418.95	584.20>526.10	108440	86635	79.89	84.54	42.27 -126.81	
N-EtFOSAA-d5	588.80>419.00	----	560738	----	----	----	0-0	
N-EtFOSAA-d5_IS	588.80>419.00	----	560738	----	----	----	0-0	
4_2-FTS_1	327.00>307.05	327.00>81.10	109624	37784	34.47	34.12	17.06-51.19	
4_2-FTS-13C	328.80>309.05	----	570351	----	----	----	0-0	
4_2-FTS-13C_IS	328.80>309.05	----	570351	----	----	----	0-0	
6_2-FTS_1	427.00>407.00	427.00>80.90	143816	50863	35.37	37.36	18.68-56.04	
6_2-FTS-13C	428.90>409.00	----	494476	----	----	----	0-0	
6_2-FTS-13C_IS	428.90>409.00	----	494476	----	----	----	0-0	
8_2-FTS_1	527.10>506.90	527.20>487.00	73018	8164	11.18	10.63	5.32-15.95	
8_2-FTS-13C	528.80>509.00	----	352716	----	----	----	0-0	
8_2-FTS-13C_IS	528.80>509.00	----	352716	----	----	----	0-0	
10_2-FtS_1	627.00>606.95	627.00>81.25	59094	12970	21.95	21.61	10.8-32.41	
HPFO_DA	329.00>169.00	329.00>285.10	106398	112598	105.83	106.46	53.23 -159.68	
HFPO_DA-13C	332.00>286.80	----	523823	----	----	----		
HFPO_DA-13C_IS	332.00>286.80	----	523823	----	----	----		

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Comment 1 field specifies acceptance range for Ref 1 ratio.
IRr - Ion ratio outside criteria. Exceedances for results above the MDL to be "K" flagged in the analytical report.

Insight Report
Quantitation/Integration
Printed 9/9/2021 16:33:46

210909_017

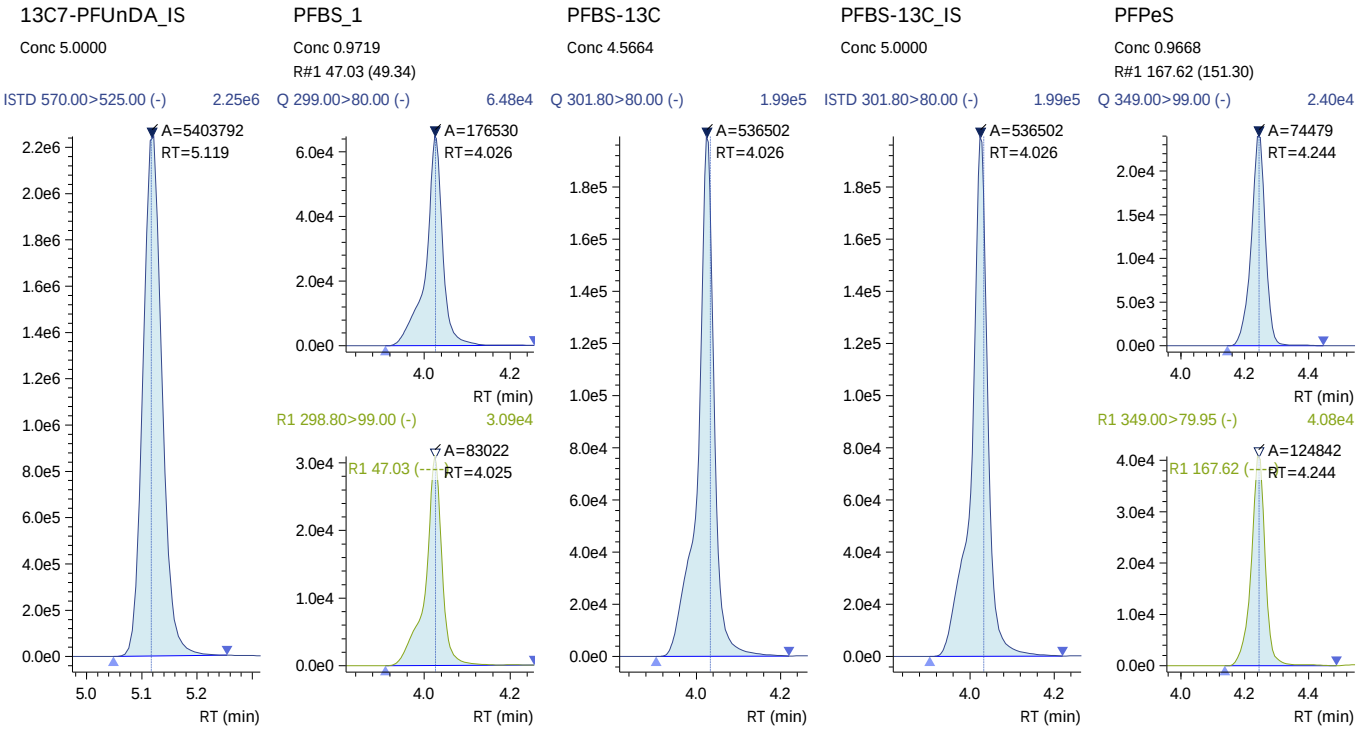
Sample ID: PFC ICV @ 1.0ppb
Date Acquired: 9/9/2021 3:29:03 PM
Acquired by: System Administrator
Data File: 210909_017
Vial: 8 | Inj. Volume: 15.0000uL | Tray: 0

Name	Mode ID	Found RT	Area	ISTD Area	ISTD Name	Std. Conc.	Conc.	Unit
13C7-PFUnDA_IS	Auto	5.119	5403792	5403792	----	5.0000	5.0000	ng/mL
PFBS_1	Auto	4.026	176530	536502	PFBS-13C_IS	0.8874	0.9719	ng/mL
PFBS-13C	Auto	4.026	536502	5403792	13C7-PFUnDA_IS	5.0000	4.5664	ng/mL
PFBS-13C_IS	Auto	4.026	536502	536502	----	5.0000	5.0000	ng/mL
PFPeS	Auto	4.244	74479	536502	PFBS-13C_IS	0.9409	0.9668	ng/mL
PFHxS_1	Auto	4.407	106004	391798	PFHxS-18O_IS	0.9131	0.8224	ng/mL
PFHxS-18O	Auto	4.409	391798	5403792	13C7-PFUnDA_IS	5.0000	4.6753	ng/mL
PFHxS-18O_IS	Auto	4.409	391798	391798	----	5.0000	5.0000	ng/mL
PFHpS_1	Auto	4.568	138787	391798	PFHxS-18O_IS	0.9534	1.0310	ng/mL
PFOS_1	Auto	4.738	99911	518767	PFOS-13C_IS	0.9292	1.0291	ng/mL
PFOS-13C	Auto	4.737	518767	5403792	13C7-PFUnDA_IS	5.0000	4.5300	ng/mL
PFOS-13C_IS	Auto	4.737	518767	518767	----	5.0000	5.0000	ng/mL
PFNS	Auto	4.916	80406	518767	PFOS-13C_IS	0.9616	1.1404	ng/mL
PFDS_1	Auto	5.097	134109	518767	PFOS-13C_IS	0.9647	1.0980	ng/mL
PFBA	M	3.411	415281	1923808	PFBA-13C_IS	1.0000	0.9627	ng/mL
PFBA-13C	Auto	3.411	1923808	5403792	13C7-PFUnDA_IS	5.0000	4.5641	ng/mL
PFBA-13C_IS	Auto	3.411	1923808	1923808	----	5.0000	5.0000	ng/mL
PFPeA	Auto	3.972	709891	1096109	PFPeA-13C_IS	1.0000	1.0306	ng/mL
PFPeA-13C	Auto	3.972	1096109	5403792	13C7-PFUnDA_IS	5.0000	4.5502	ng/mL
PFPeA-13C_IS	Auto	3.972	1096109	1096109	----	5.0000	5.0000	ng/mL
PFHxA	Auto	4.228	811345	3164919	PFHxA-13C_IS	1.0000	0.9811	ng/mL
PFHxA-13C	Auto	4.228	3164919	5403792	13C7-PFUnDA_IS	5.0000	4.6301	ng/mL
PFHxA-13C_IS	Auto	4.228	3164919	3164919	----	5.0000	5.0000	ng/mL
PFHpA	M	4.409	694952	2824283	PFHpA-13C_IS	1.0000	1.0199	ng/mL
PFHpA-13C	Auto	4.409	2824283	5403792	13C7-PFUnDA_IS	5.0000	4.5560	ng/mL
PFHpA-13C_IS	Auto	4.409	2824283	2824283	----	5.0000	5.0000	ng/mL
PFOA	Auto	4.576	998180	3801850	PFOA-13C_IS	1.0000	0.9576	ng/mL
PFOA-13C	Auto	4.576	3801850	5403792	13C7-PFUnDA_IS	5.0000	4.5875	ng/mL
PFOA-13C_IS	Auto	4.576	3801850	3801850	----	5.0000	5.0000	ng/mL
PFNA	Auto	4.750	729178	3297152	PFNA-13C_IS	1.0000	1.0695	ng/mL
PFNA-13C	Auto	4.750	3297152	5403792	13C7-PFUnDA_IS	5.0000	4.6178	ng/mL
PFNA-13C_IS	Auto	4.750	3297152	3297152	----	5.0000	5.0000	ng/mL
PFDA	Auto	4.934	634459	2296849	PFDA-13C_IS	1.0000	0.9799	ng/mL
PFDA-13C	Auto	4.934	2296849	5403792	13C7-PFUnDA_IS	5.0000	4.6268	ng/mL
PFDA-13C_IS	Auto	4.934	2296849	2296849	----	5.0000	5.0000	ng/mL
PFUnA	Auto	5.119	813455	3500794	PFUnA-13C_IS	1.0000	1.0498	ng/mL
PFUnA-13C	Auto	5.119	3500794	5403792	13C7-PFUnDA_IS	5.0000	4.6770	ng/mL
PFUnA-13C_IS	Auto	5.119	3500794	3500794	----	5.0000	5.0000	ng/mL
PFDoA	Auto	5.299	673282	3712961	PFDoA-13C_IS	1.0000	1.0181	ng/mL
PFDoA-13C	Auto	5.299	3712961	5403792	13C7-PFUnDA_IS	5.0000	4.4972	ng/mL
PFDoA-13C_IS	Auto	5.299	3712961	3712961	----	5.0000	5.0000	ng/mL
PFTrDA	Auto	5.462	842632	3809424	PFTeDA-13C_IS	1.0000	1.0834	ng/mL
PFTeDA	Auto	5.609	852968	3809424	PFTeDA-13C_IS	1.0000	1.0113	ng/mL
PFTeDA-13C	Auto	5.609	3809424	5403792	13C7-PFUnDA_IS	5.0000	4.5986	ng/mL
PFTeDA-13C_IS	Auto	5.609	3809424	3809424	----	5.0000	5.0000	ng/mL
FOSA	Auto	5.221	422146	1583073	FOSA-13C_IS	1.0000	1.1119	ng/mL
FOSA-13C	Auto	5.221	1583073	5403792	13C7-PFUnDA_IS	5.0000	4.6058	ng/mL
FOSA-13C_IS	Auto	5.221	1583073	1583073	----	5.0000	5.0000	ng/mL
N-MeFOSA	Auto	5.608	136018	349535	N-MeFOSA-d3_IS	1.0000	1.0221	ng/mL
N-MeFOSA-d3	Auto	5.605	349535	5403792	13C7-PFUnDA_IS	5.0000	4.5323	ng/mL
N-MeFOSA-d3_IS	Auto	5.605	349535	349535	----	5.0000	5.0000	ng/mL
N-EtFOSA	Auto	5.732	23868	394741	N-EtFOSA-d9_IS	1.0000	0.9976	ng/mL
N-EtFOSA-d9	Auto	5.727	394741	5403792	13C7-PFUnDA_IS	5.0000	4.3936	ng/mL
N-EtFOSA-d9_IS	Auto	5.727	394741	394741	----	5.0000	5.0000	ng/mL

210909_017 (continued)

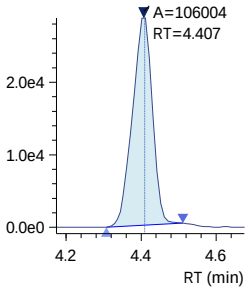
(Table continued from previous page)

Name	Mode ID	Found RT	Area	ISTD Area	ISTD Name	Std. Conc.	Conc.	Unit
N-MeFOSE	Auto	5.589	201587	554772	N-MeFOSE-d7_IS	1.0000	1.0109	ng/mL
N-MeFOSE-d7	Auto	5.582	554772	5403792	13C7-PFUnDA_IS	5.0000	4.6717	ng/mL
N-MeFOSE-d7_IS	Auto	5.582	554772	554772	----	5.0000	5.0000	ng/mL
N-EtFOSE	Auto	5.710	180689	501867	N-EtFOSE-d9_IS	1.0000	1.0388	ng/mL
N-EtFOSE-d9	Auto	5.700	501867	5403792	13C7-PFUnDA_IS	5.0000	4.4627	ng/mL
N-EtFOSE-d9_IS	Auto	5.700	501867	501867	----	5.0000	5.0000	ng/mL
N-MeFOSAA	Auto	5.034	130316	611839	N-MeFOSAA-d3_IS	1.0000	1.2821	ng/mL
N-MeFOSAA-d3	Auto	5.032	611839	5403792	13C7-PFUnDA_IS	5.0000	4.4847	ng/mL
N-MeFOSAA-d3_IS	Auto	5.032	611839	611839	----	5.0000	5.0000	ng/mL
N-EtFOSAA	Auto	5.132	108440	560738	N-EtFOSAA-d5_IS	1.0000	1.2967	ng/mL
N-EtFOSAA-d5	Auto	5.131	560738	5403792	13C7-PFUnDA_IS	5.0000	4.8606	ng/mL
N-EtFOSAA-d5_IS	Auto	5.131	560738	560738	----	5.0000	5.0000	ng/mL
4_2-FTS_1	Auto	4.203	109624	570351	4_2-FTS-13C_IS	0.9372	1.0645	ng/mL
4_2-FTS-13C	Auto	4.203	570351	5403792	13C7-PFUnDA_IS	5.0000	4.4606	ng/mL
4_2-FTS-13C_IS	Auto	4.203	570351	570351	----	5.0000	5.0000	ng/mL
6_2-FTS_1	Auto	4.565	143816	494476	6_2-FTS-13C_IS	0.9512	1.1146	ng/mL
6_2-FTS-13C	Auto	4.566	494476	5403792	13C7-PFUnDA_IS	5.0000	4.5772	ng/mL
6_2-FTS-13C_IS	Auto	4.566	494476	494476	----	5.0000	5.0000	ng/mL
8_2-FTS_1	Auto	4.931	73018	352716	8_2-FTS-13C_IS	0.9600	1.0835	ng/mL
8_2-FTS-13C	Auto	4.933	352716	5403792	13C7-PFUnDA_IS	5.0000	4.4913	ng/mL
8_2-FTS-13C_IS	Auto	4.933	352716	352716	----	5.0000	5.0000	ng/mL
10_2-FtS_1	Auto	5.306	59094	352716	8_2-FTS-13C_IS	0.9662	1.0802	ng/mL
HPFO_DA	Auto	4.295	106398	523823	HFPO_DA-13C_IS	1.0000	1.0160	ng/mL
HFPO_DA-13C	Auto	4.295	523823	5403792	13C7-PFUnDA_IS	5.0000	4.5237	ng/mL
HFPO_DA-13C_IS	Auto	4.295	523823	523823	----	5.0000	5.0000	ng/mL

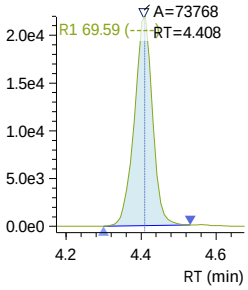


210909_017 (continued)

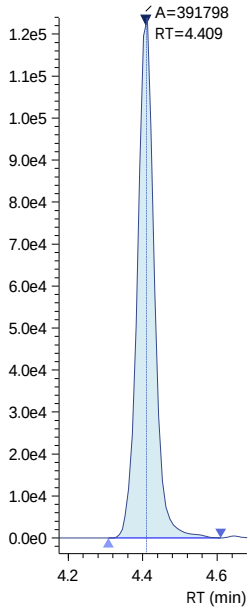
PFHxS_1
Conc 0.8224
R#1 69.59 (62.92)
Q 399.00>80.00 (-) 2.89e4



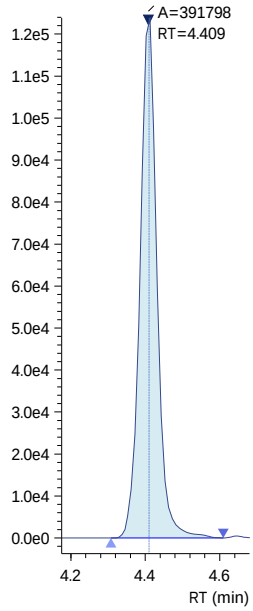
R1 399.00>99.00 (-) 2.19e4



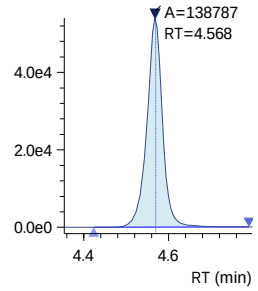
PFHxS-18O
Conc 4.6753
Q 402.70>84.05 (-) 1.24e5



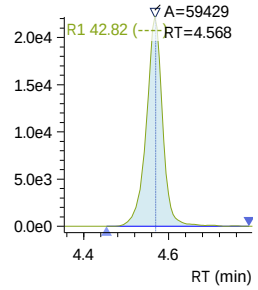
PFHxS-18O_IS
Conc 5.0000
ISTD 402.70>84.05 (-) 1.24e5



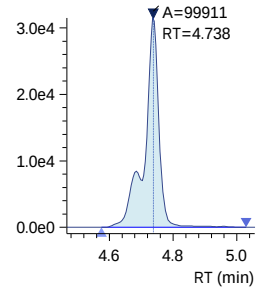
PFHpS_1
Conc 1.0310
R#1 42.82 (40.53)
Q 449.00>80.15 (-) 5.41e4



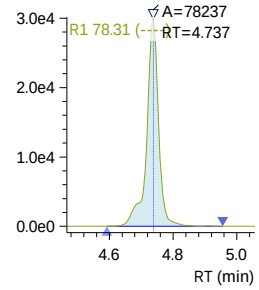
R1 449.00>99.20 (-) 2.22e4



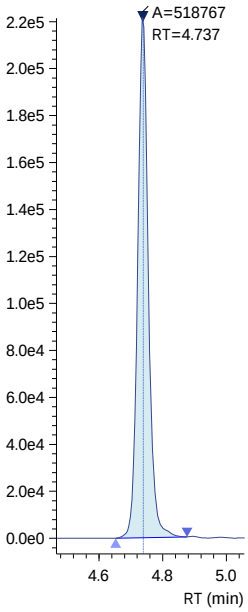
PFOS_1
Conc 1.0291
R#1 78.31 (73.81)
Q 499.00>80.00 (-) 3.15e4



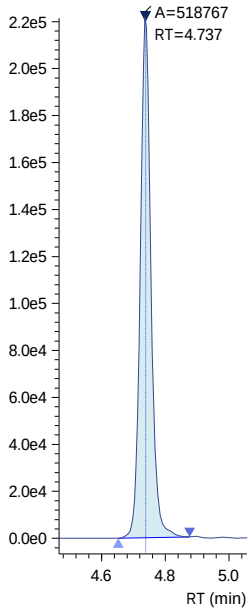
R1 499.00>99.00 (-) 3.02e4



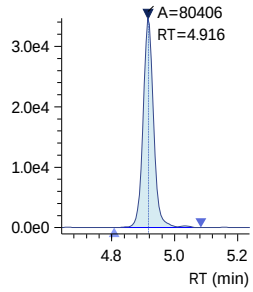
PFOS-13C
Conc 4.5300
Q 502.80>80.05 (-) 2.21e5



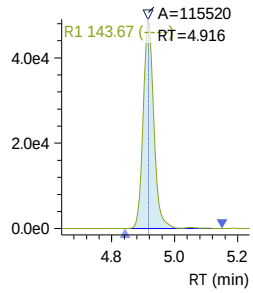
PFOS-13C_IS
Conc 5.0000
ISTD 502.80>80.05 (-) 2.21e5



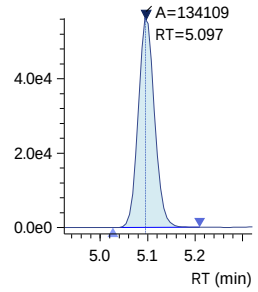
PFNS
Conc 1.1404
R#1 143.67 (160.25)
Q 549.00>99.00 (-) 3.47e4



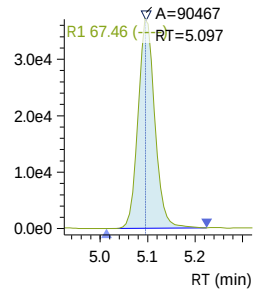
R1 549.00>79.95 (-) 4.90e4



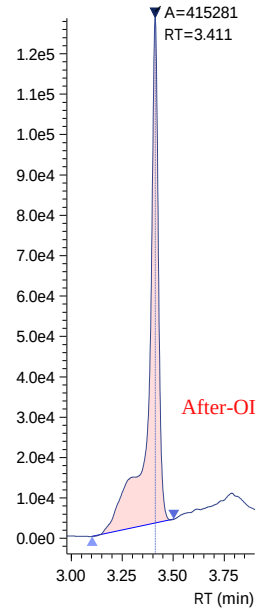
PFDS_1
Conc 1.0980
R#1 67.46 (72.12)
Q 599.00>79.90 (-) 5.63e4



R1 599.00>99.10 (-) 3.71e4

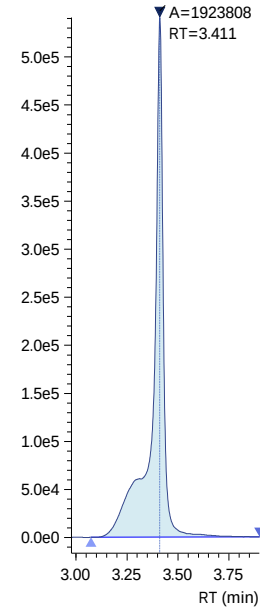


PFBA
Conc 0.9627
Q 213.00>169.10 (-) 1.29e5

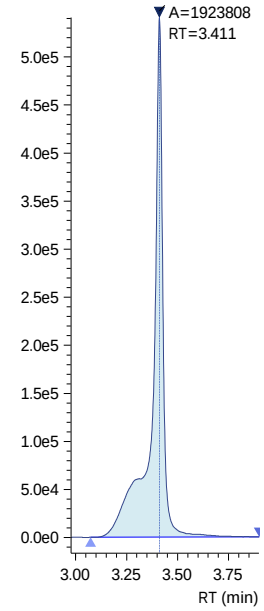


210909_017 (continued)

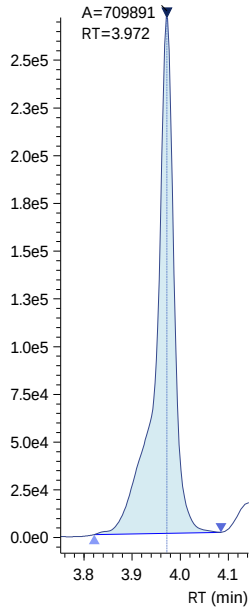
PFBA-13C
Conc 4.5641
Q 216.90>172.15 (-) 5.41e5



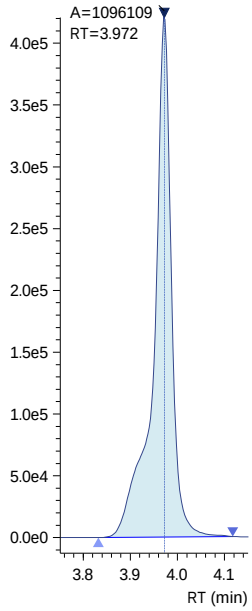
PFBA-13C_IS
Conc 5.0000
ISTD 216.90>172.15 (-) 5.41e5



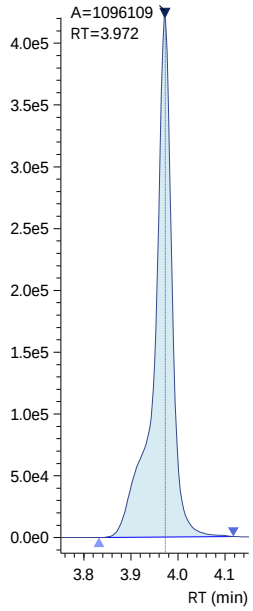
PFPeA
Conc 1.0306
Q 263.05>219.10 (-) 2.72e5



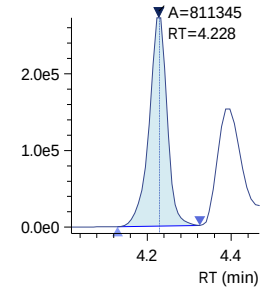
PFPeA-13C
Conc 4.5502
Q 267.90>223.00 (-) 4.21e5



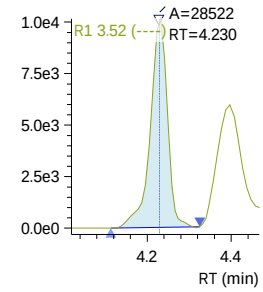
PFPeA-13C_IS
Conc 5.0000
ISTD 267.90>223.00 (-) 4.21e5



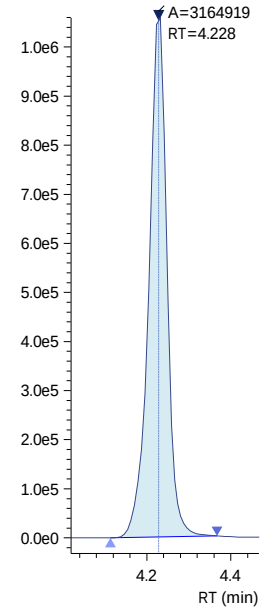
PFHxA
Conc 0.9811
R#1 3.52 (4.40)
Q 313.00>269.00 (-) 2.73e5



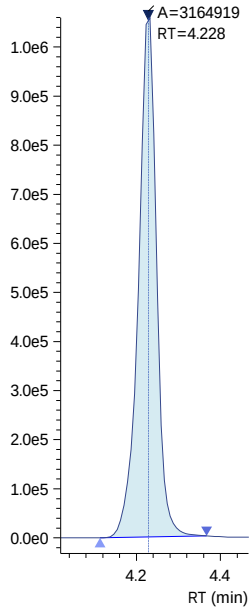
R1 313.00>119.10 (-) 1.02e4



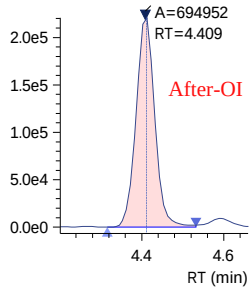
PFHxA-13C
Conc 4.6301
Q 314.90>270.10 (-) 1.06e6



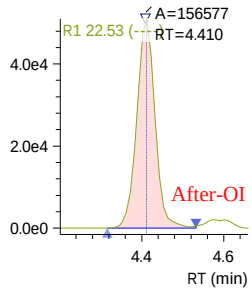
PFHxA-13C_IS
Conc 5.0000
ISTD 314.90>270.10 (-) 1.06e6



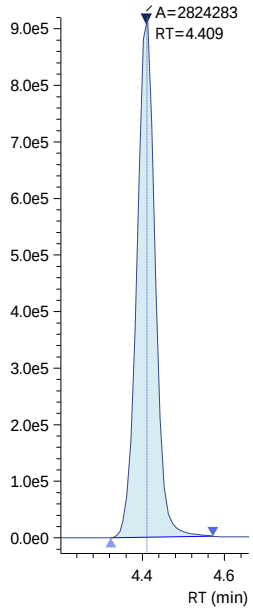
PFHpA
Conc 1.0199
R#1 22.53 (24.40)
Q 362.90>319.00 (-) 2.21e5



R1 362.90>169.00 (-) 5.10e4

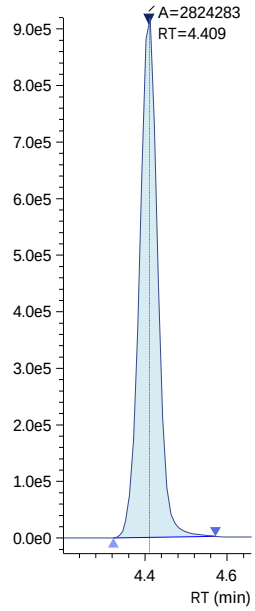


PFHpA-13C
Conc 4.5560
Q 366.90>322.10 (-) 9.19e5

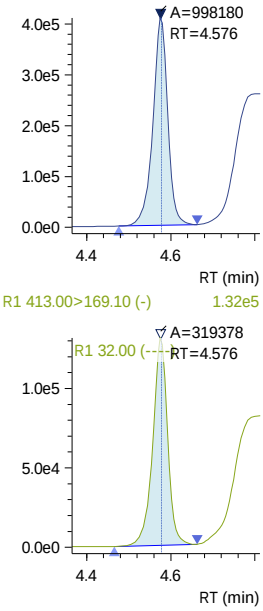


210909_017 (continued)

PFHpA-13C_IS
Conc 5.0000
ISTD 366.90>322.10 (-) 9.19e5

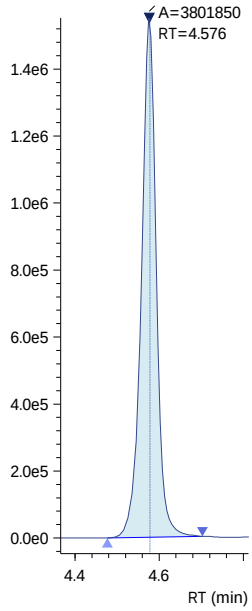


PFOA
Conc 0.9576
R#1 32.00 (31.89)
Q 413.00>369.00 (-) 4.12e5



R1 413.00>169.10 (-) 1.32e5

PFOA-13C
Conc 4.5875
Q 416.80>372.05 (-) 1.55e6



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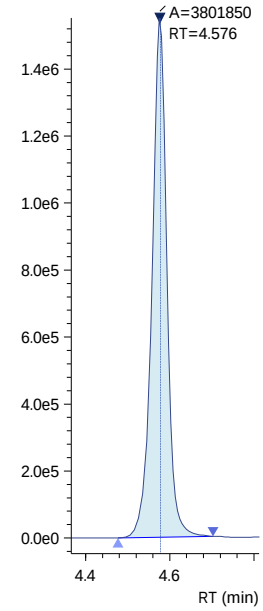
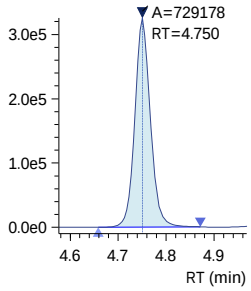
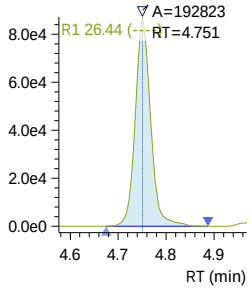
Conc 5.0000
ISTD 416.80>372.05 (-) 1.55e6



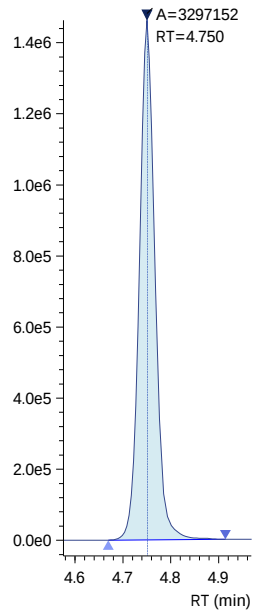
PFNA
Conc 1.0695
R#1 26.44 (23.25)
Q 463.00>418.90 (-) 3.26e5



R1 463.00>219.00 (-) 8.71e4



PFNA-13C
Conc 4.6178
Q 467.80>423.00 (-) 1.46e6



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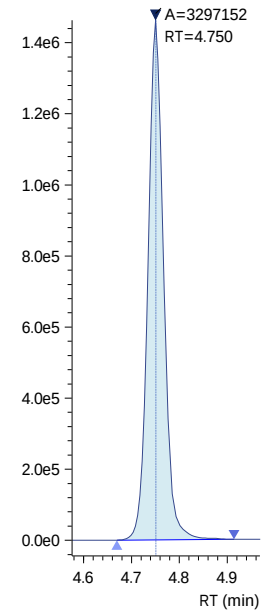
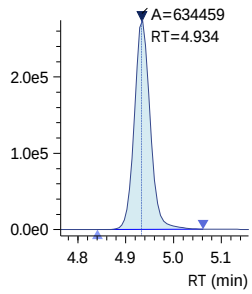
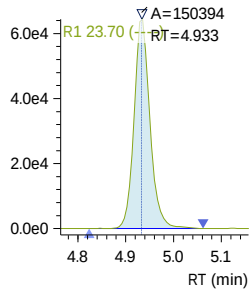
Conc 5.0000
ISTD 467.80>423.00 (-) 1.46e6



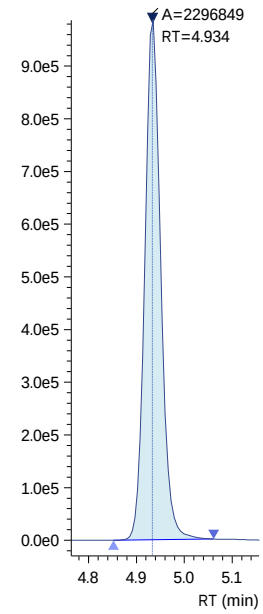
PFDA
Conc 0.9799
R#1 23.70 (20.24)
Q 513.00>468.80 (-) 2.74e5



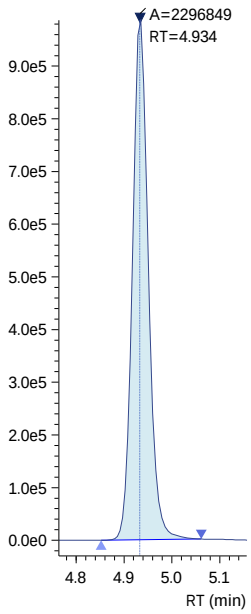
R1 513.00>219.10 (-) 6.44e4



PFDA-13C
Conc 4.6268
Q 514.80>469.95 (-) 9.87e5

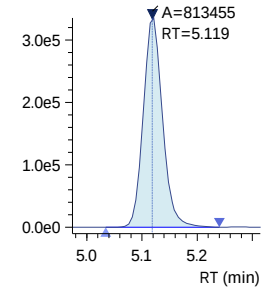


PFDA-13C_IS
Conc 5.0000
ISTD 514.80>469.95 (-) 9.87e5

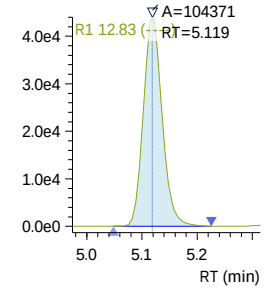


210909_017 (continued)

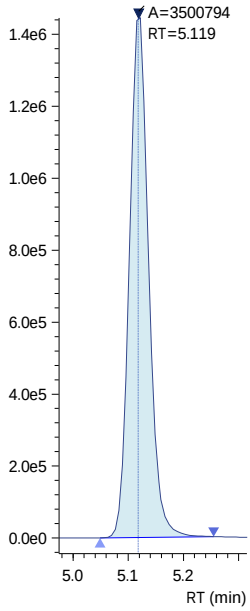
PFUnA
Conc 1.0498
R#1 12.83 (12.46)
Q 563.00>518.90 (-) 3.35e5



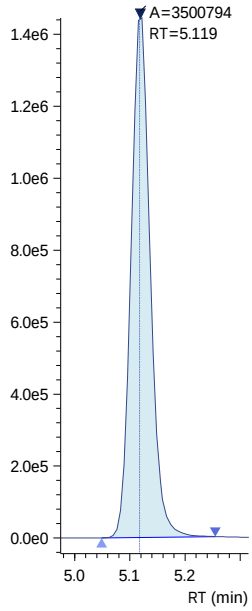
R1 563.00>219.00 (-) 4.41e4



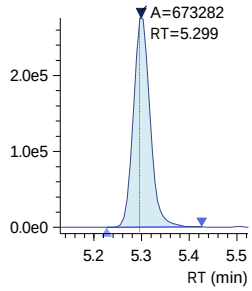
PFUnA-13C
Conc 4.6770
Q 564.80>519.95 (-) 1.45e6



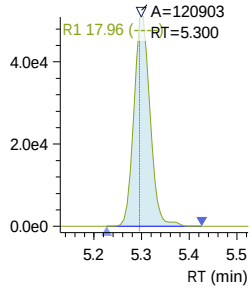
PFUnA-13C_IS
Conc 5.0000
ISTD 564.80>519.95 (-) 1.45e6



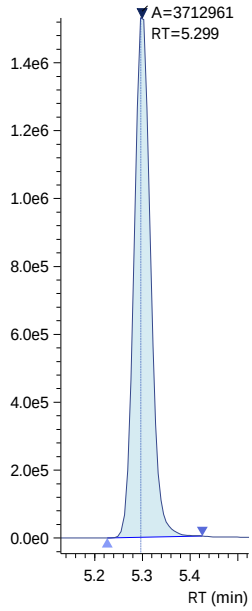
PFDoA
Conc 1.0181
R#1 17.96 (16.50)
Q 613.05>569.00 (-) 2.76e5



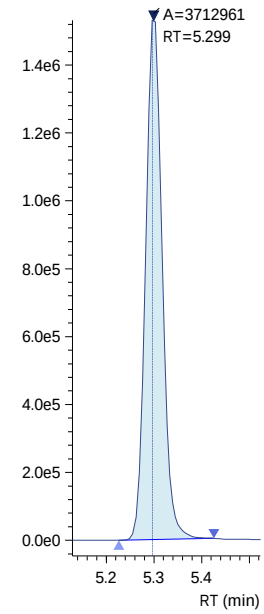
R1 613.05>169.00 (-) 5.09e4



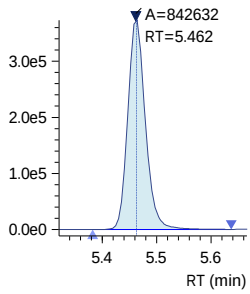
PFDoA-13C
Conc 4.4972
Q 614.80>569.95 (-) 1.53e6



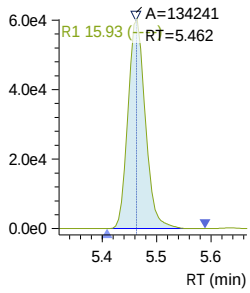
PFDoA-13C_IS
Conc 5.0000
ISTD 614.80>569.95 (-) 1.53e6



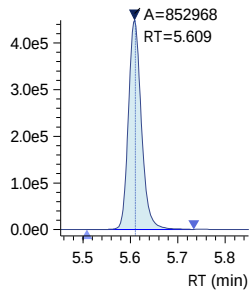
PFTrDA
Conc 1.0834
R#1 15.93 (15.29)
Q 663.00>618.90 (-) 3.73e5



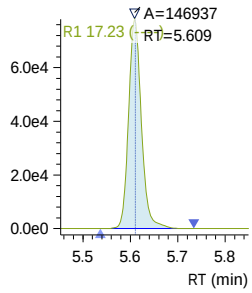
R1 662.90>169.00 (-) 6.03e4



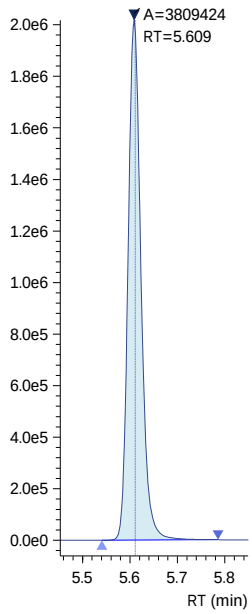
PFTeDA
Conc 1.0113
R#1 17.23 (17.47)
Q 713.00>669.00 (-) 4.49e5



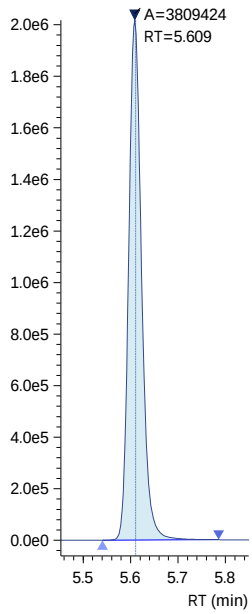
R1 713.00>169.10 (-) 7.81e4



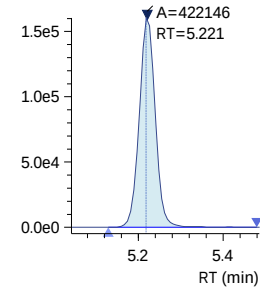
PFTeDA-13C
Conc 4.5986
Q 714.70>669.90 (-) 2.02e6

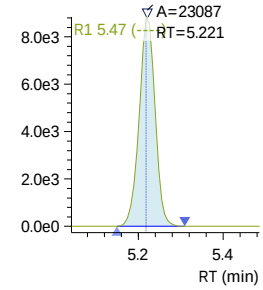


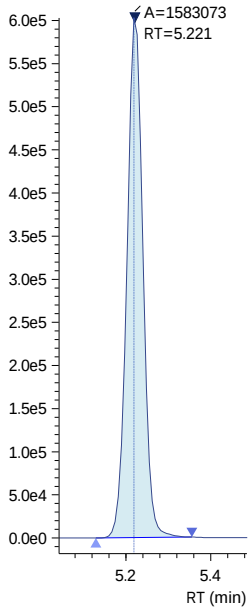
PFTeDA-13C_IS
Conc 5.0000
ISTD 714.70>669.90 (-) 2.02e6

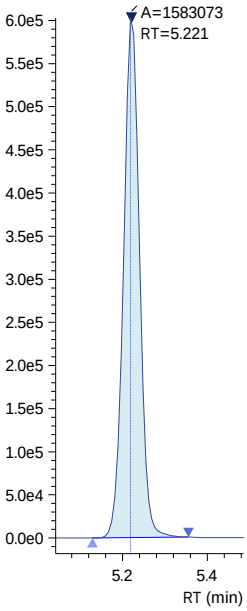


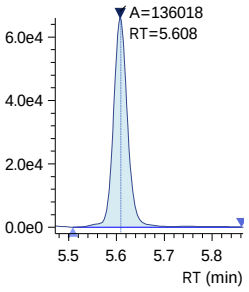
210909_017 (continued)

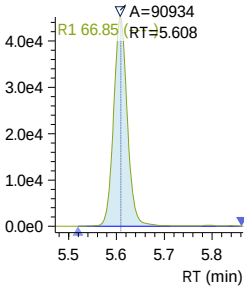
FOSA
Conc 1.1119
R#1 5.47 (5.19)
Q 498.20>78.00 (-) 1.60e5


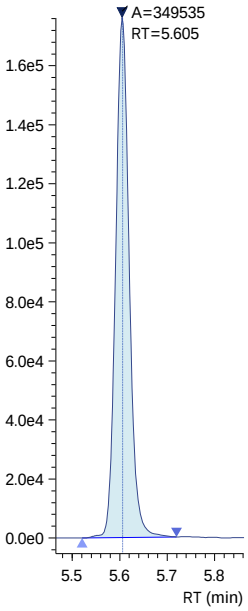
R1 498.20>64.10 (-) 8.84e3


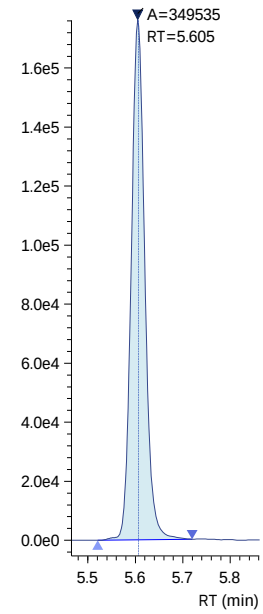
FOSA-13C
Conc 4.6058
Q 506.00>78.05 (-) 6.03e5


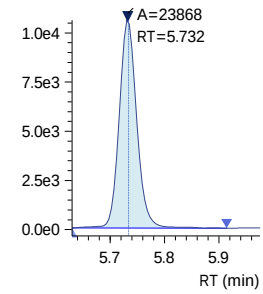
FOSA-13C_IS
Conc 5.0000
ISTD 506.00>78.05 (-) 6.03e5


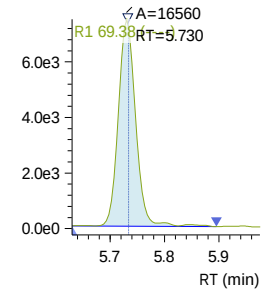
N-MeFOSA
Conc 1.0221
R#1 66.85 (69.94)
Q 512.00>169.10 (-) 6.60e4


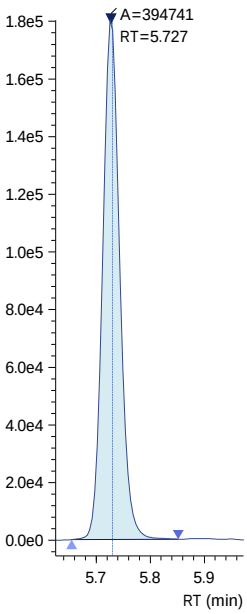
R1 512.00>219.00 (-) 4.52e4


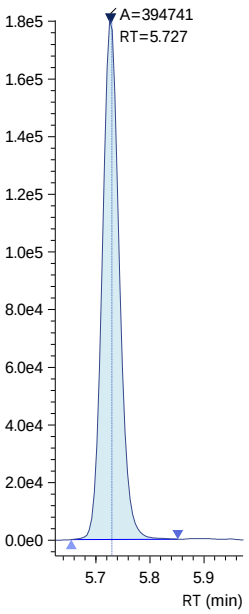
N-MeFOSA-d3
Conc 4.5323
Q 514.90>168.90 (-) 1.76e5


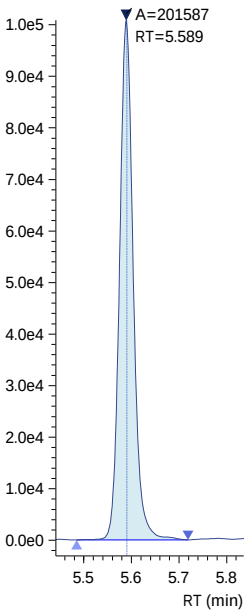
N-MeFOSA-d3_IS
Conc 5.0000
ISTD 514.90>168.90 (-) 1.76e5


N-EtFOSA
Conc 0.9976
R#1 69.38 (66.52)
Q 526.90>169.10 (-) 1.06e4


R1 526.90>219.00 (-) 7.54e3


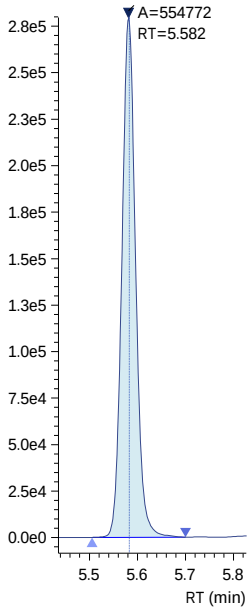
N-EtFOSA-d9
Conc 4.3936
Q 530.90>169.15 (-) 1.80e5


N-EtFOSA-d9_IS
Conc 5.0000
ISTD 530.90>169.15 (-) 1.80e5


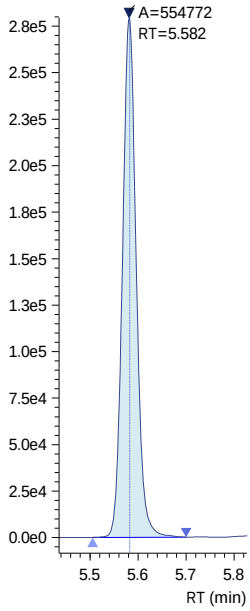
N-MeFOSE
Conc 1.0109
Q 616.00>59.00 (-) 1.01e5


210909_017 (continued)

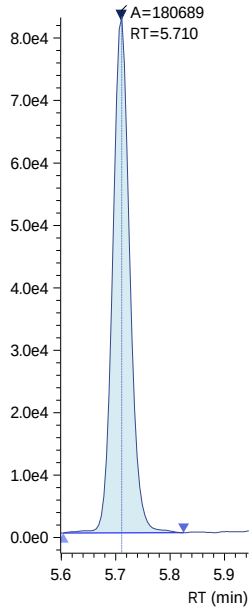
N-MeFOSE-d7
Conc 4.6717
Q 622.70>59.10 (-) 2.80e5



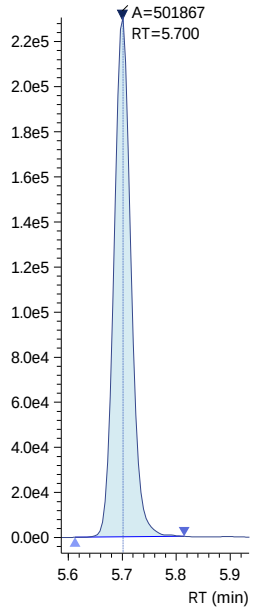
N-MeFOSE-d7_IS
Conc 5.0000
ISTD 622.70>59.10 (-) 2.80e5



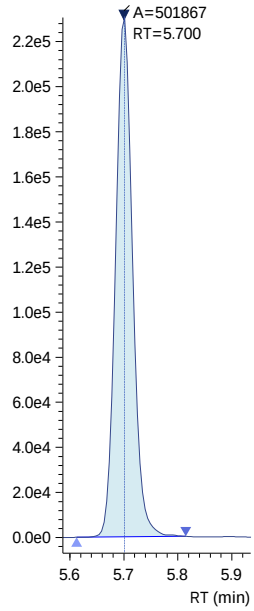
N-EtFOSE
Conc 1.0388
Q 630.00>58.90 (-) 8.33e4



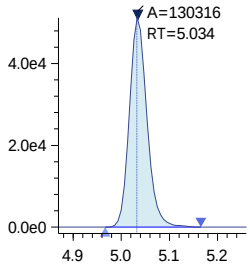
N-EtFOSE-d9
Conc 4.4627
Q 638.70>59.10 (-) 2.31e5



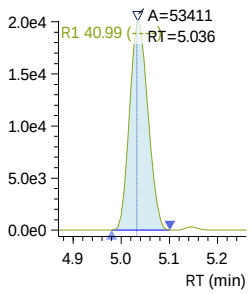
N-EtFOSE-d9_IS
Conc 5.0000
ISTD 638.70>59.10 (-) 2.31e5



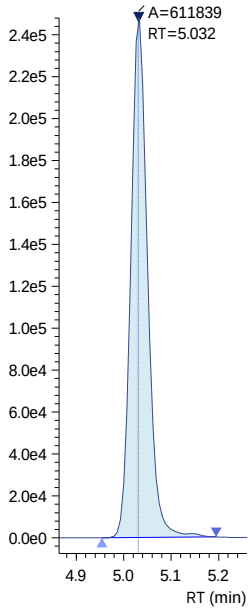
N-MeFOSAA
Conc 1.2821
R#1 40.99 (39.56)
Q 570.20>419.00 (-) 5.12e4



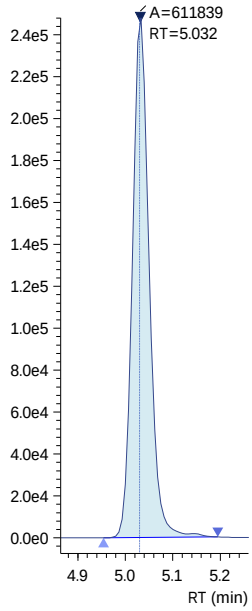
R1 570.20>512.00 (-) 2.01e4



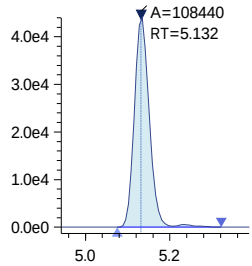
N-MeFOSAA-d3
Conc 4.4847
Q 572.80>419.05 (-) 2.48e5



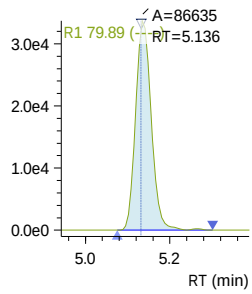
N-MeFOSAA-d3_IS
Conc 5.0000
ISTD 572.80>419.05 (-) 2.48e5



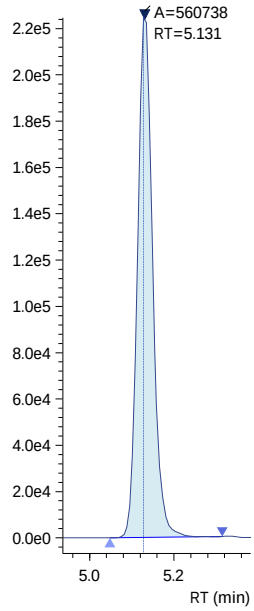
N-EtFOSAA
Conc 1.2967
R#1 79.89 (84.54)
Q 584.20>418.95 (-) 4.40e4



R1 584.20>526.10 (-) 3.37e4

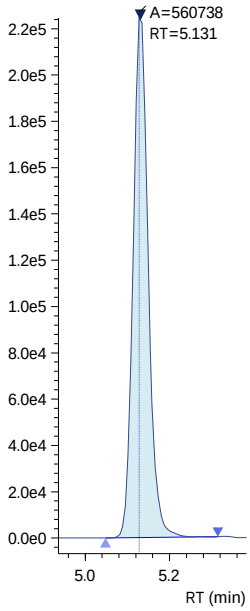


N-EtFOSAA-d5
Conc 4.8606
Q 588.80>419.00 (-) 2.25e5

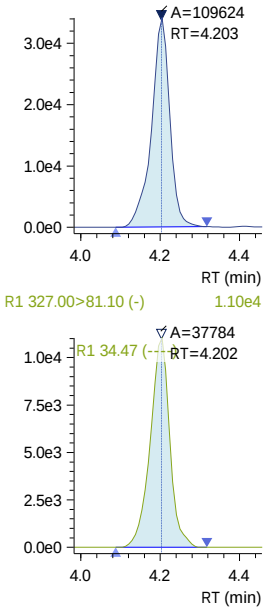


210909_017 (continued)

N-EtFOSAA-d5_IS
Conc 5.0000
ISTD 588.80>419.00 (-) 2.25e5

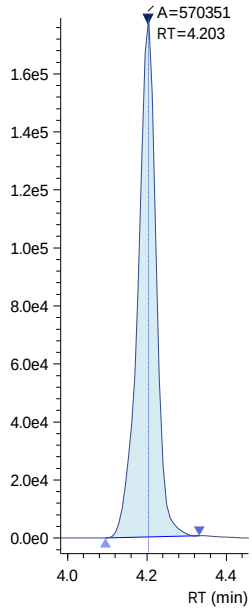


4_2-FTS_1
Conc 1.0645
R#1 34.47 (34.12)
Q 327.00>307.05 (-) 3.41e4

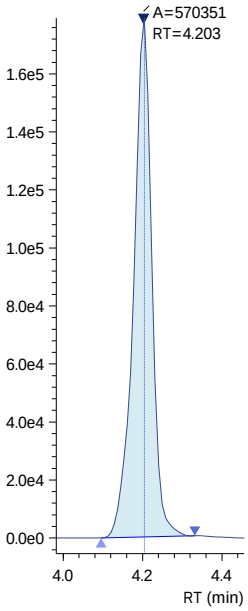


R1 327.00>81.10 (-) 1.10e4

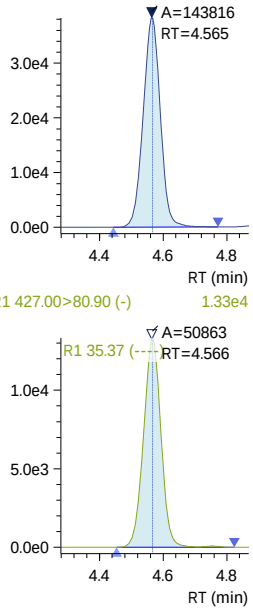
4_2-FTS-13C
Conc 4.4606
Q 328.80>309.05 (-) 1.79e5



4_2-FTS-13C_IS
Conc 5.0000
ISTD 328.80>309.05 (-) 1.79e5

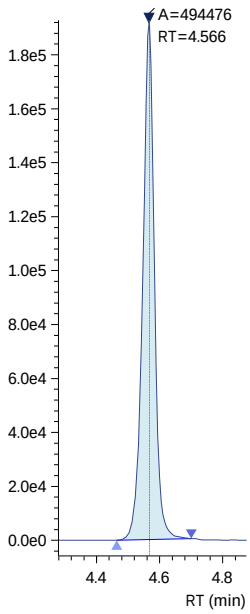


6_2-FTS_1
Conc 1.1146
R#1 35.37 (37.36)
Q 427.00>407.00 (-) 3.83e4

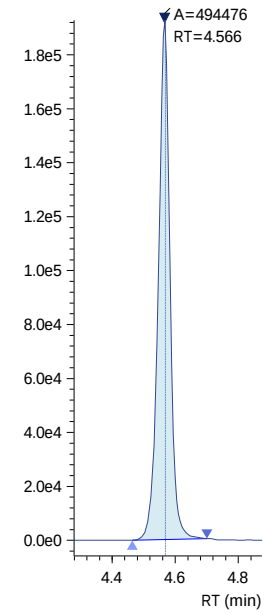


R1 427.00>80.90 (-) 1.33e4

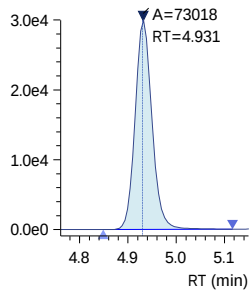
6_2-FTS-13C
Conc 4.5772
Q 428.90>409.00 (-) 1.93e5



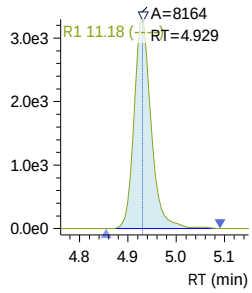
6_2-FTS-13C_IS
Conc 5.0000
ISTD 428.90>409.00 (-) 1.93e5



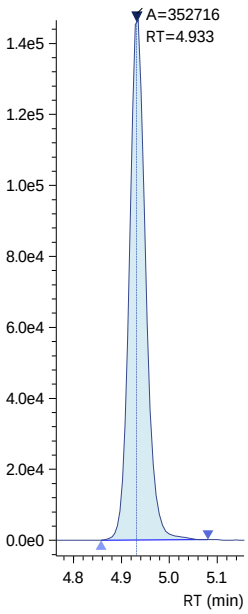
8_2-FTS_1
Conc 1.0835
R#1 11.18 (10.63)
Q 527.10>506.90 (-) 3.00e4



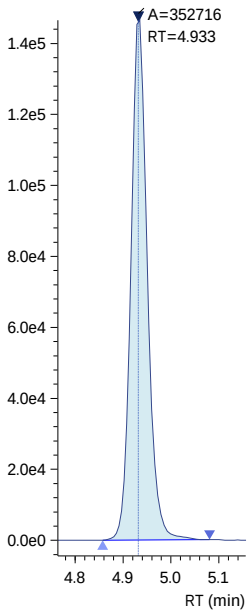
R1 527.20>487.00 (-) 3.30e3



8_2-FTS-13C
Conc 4.4913
Q 528.80>509.00 (-) 1.47e5

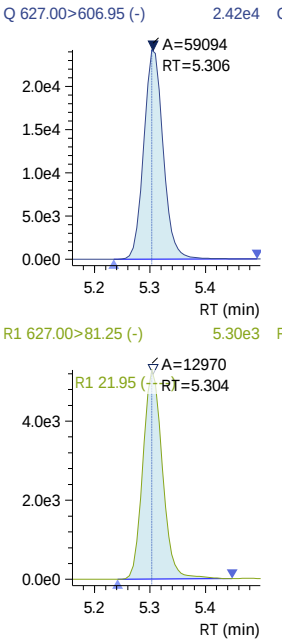


8_2-FTS-13C_IS
Conc 5.0000
ISTD 528.80>509.00 (-) 1.47e5

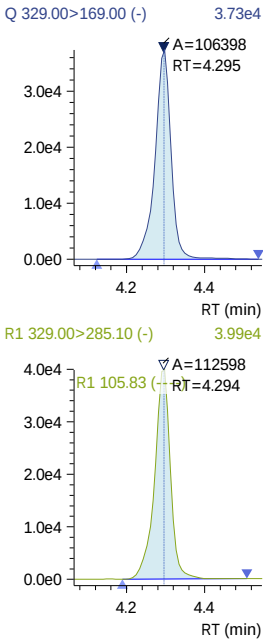


210909_017 (continued)

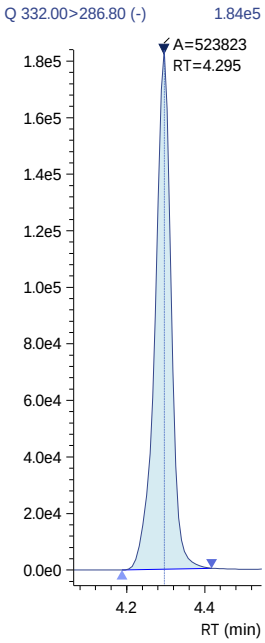
10_2-FtS_1
Conc 1.0802
R#1 21.95 (21.61)



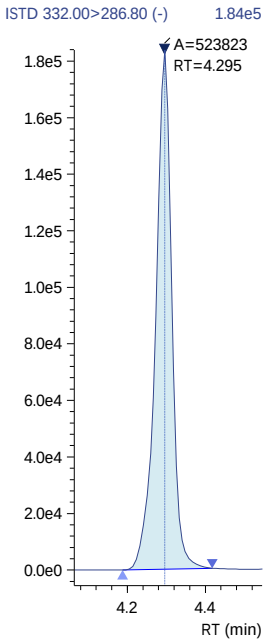
HPFO_DA
Conc 1.0160
R#1 105.83 (106.46)



HFPO_DA-13C
Conc 4.5237



HFPO_DA-13C_IS
Conc 5.0000

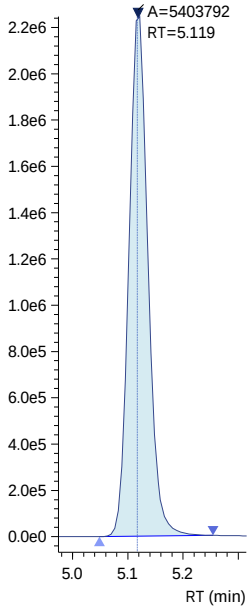


Insight Report
Before Manual Integration
Printed 9/9/2021 15:44:22

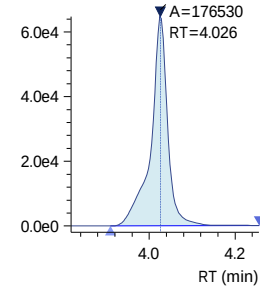
210909_017

Sample ID: PFC ICV @ 1.0ppb
Date Acquired: 9/9/2021 3:29:03 PM
Acquired by: System Administrator
Data File: 210909_017
Vial: 8 | Inj. Volume: 15.0000uL | Tray: 0

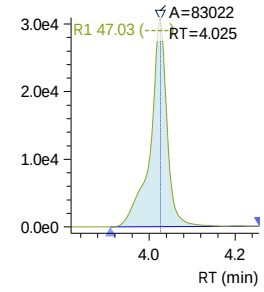
13C7-PFUnDA_IS
Conc 5.0000
ISTD 570.00>525.00 (-) 2.25e6



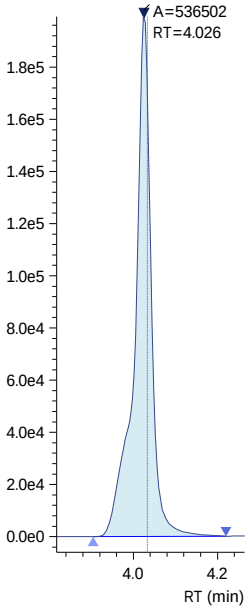
PFBS_1
Conc 0.9526
R#1 47.03 (46.55)
Q 299.00>80.00 (-) 6.48e4



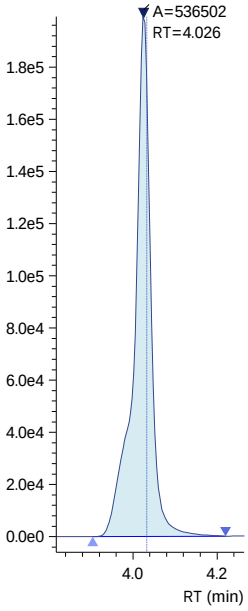
R1 298.80>99.00 (-) 3.09e4



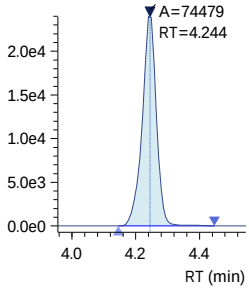
PFBS-13C
Conc 4.5664
Q 301.80>80.00 (-) 1.99e5



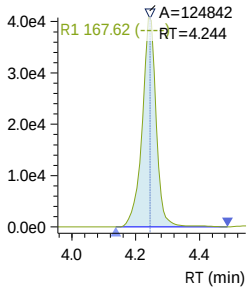
PFBS-13C_IS
Conc 5.0000
ISTD 301.80>80.00 (-) 1.99e5



PFPeS
Conc 0.9563
R#1 167.62 (154.38)
Q 349.00>99.00 (-) 2.40e4

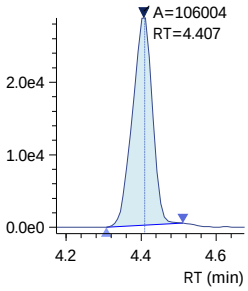


R1 349.00>79.95 (-) 4.08e4

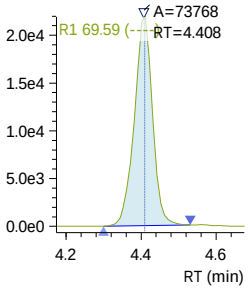


210909_017 (continued)

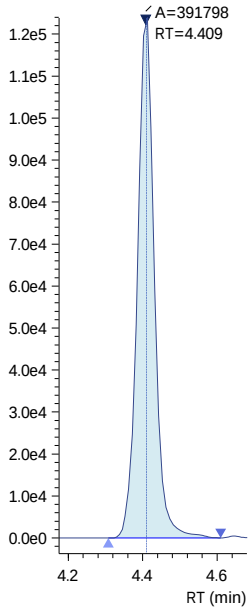
PFHxS_1
Conc 0.7590
R#1 69.59 (76.59)
Q 399.00>80.00 (-) 2.89e4



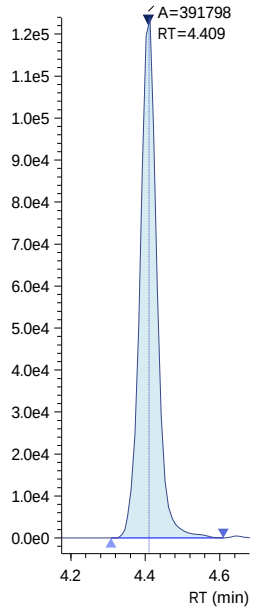
R1 399.00>99.00 (-) 2.19e4



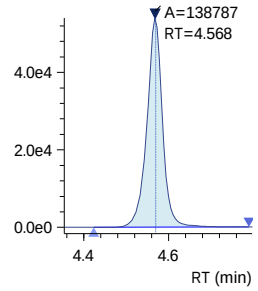
PFHxS-18O
Conc 4.6753
Q 402.70>84.05 (-) 1.24e5



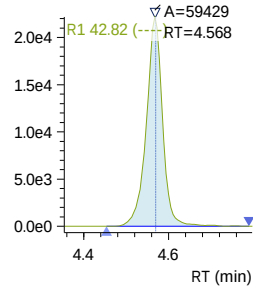
PFHxS-18O_IS
Conc 5.0000
ISTD 402.70>84.05 (-) 1.24e5



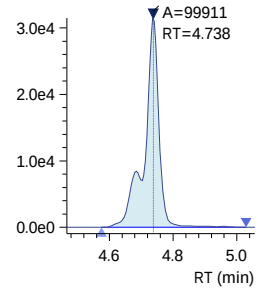
PFHpS_1
Conc 1.0177
R#1 42.82 (53.58)
Q 449.00>80.15 (-) 5.41e4



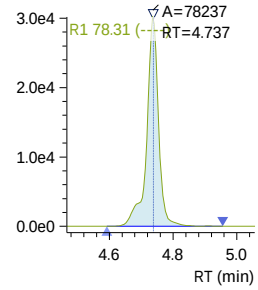
R1 449.00>99.20 (-) 2.22e4



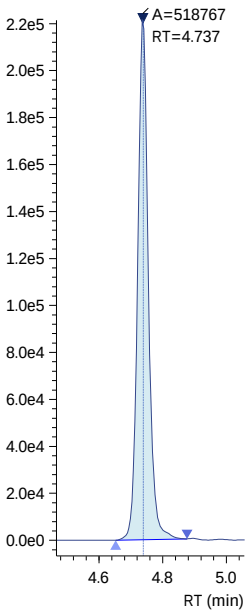
PFOS_1
Conc 1.0244
R#1 78.31 (84.68)
Q 499.00>80.00 (-) 3.15e4



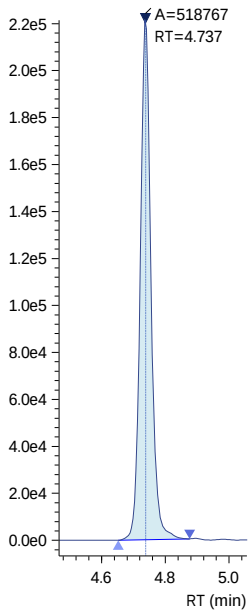
R1 499.00>99.00 (-) 3.02e4



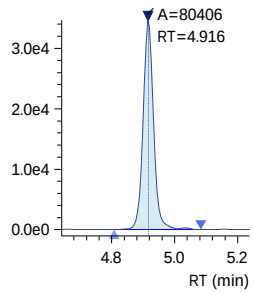
PFOS-13C
Conc 4.5300
Q 502.80>80.05 (-) 2.21e5



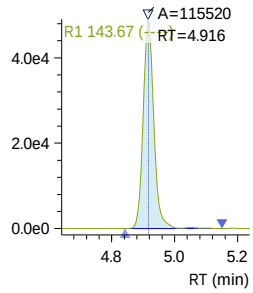
PFOS-13C_IS
Conc 5.0000
ISTD 502.80>80.05 (-) 2.21e5



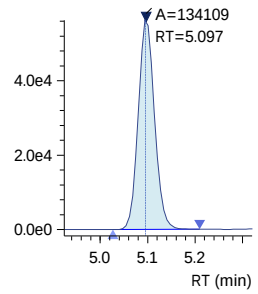
PFNS
Conc 1.1278
R#1 143.67 (133.04)
Q 549.00>99.00 (-) 3.47e4



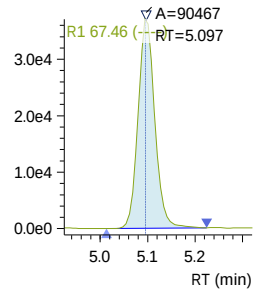
R1 549.00>79.95 (-) 4.90e4



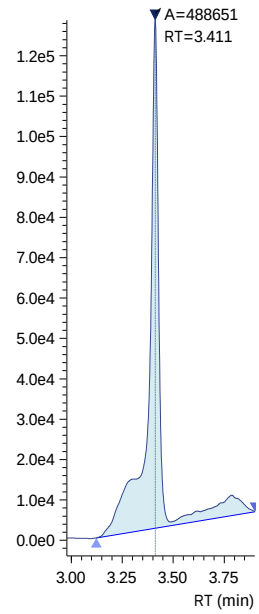
PFDS_1
Conc 1.0911
R#1 67.46 (89.20)
Q 599.00>79.90 (-) 5.63e4



R1 599.00>99.10 (-) 3.71e4

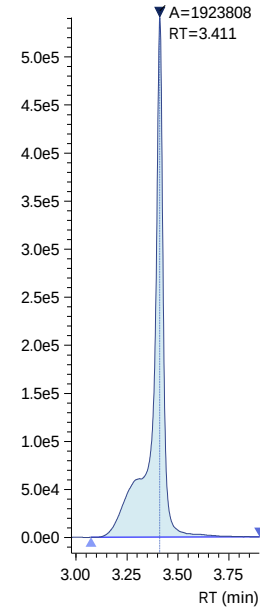


PFBA
Conc 1.1770
Q 213.00>169.10 (-) 1.29e5

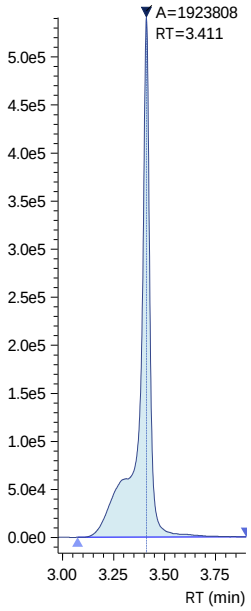


210909_017 (continued)

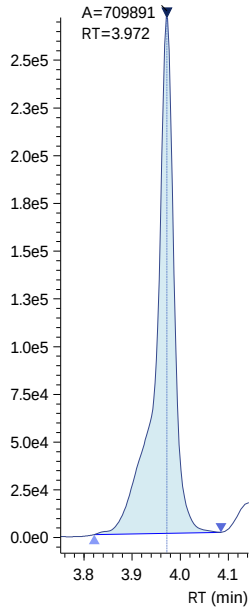
PFBA-13C
Conc 4.5641
Q 216.90>172.15 (-) 5.41e5



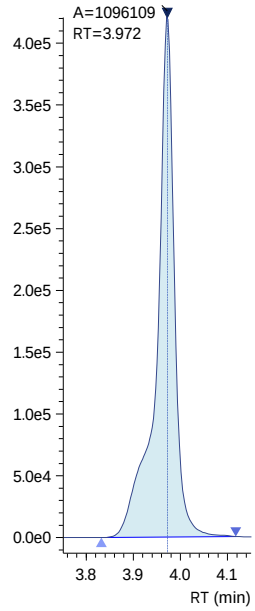
PFBA-13C_IS
Conc 5.0000
ISTD 216.90>172.15 (-) 5.41e5



PFPeA
Conc 1.0306
Q 263.05>219.10 (-) 2.72e5



PFPeA-13C
Conc 4.5502
Q 267.90>223.00 (-) 4.21e5



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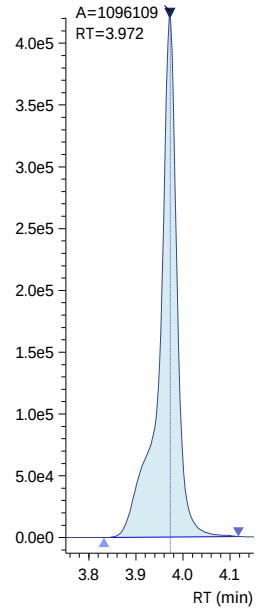
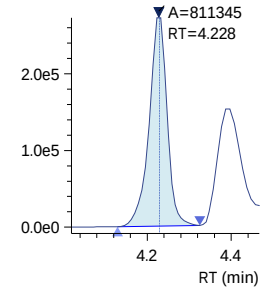
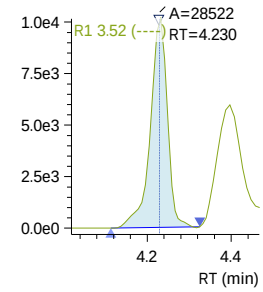
Conc 5.0000
ISTD 267.90>223.00 (-) 4.21e5



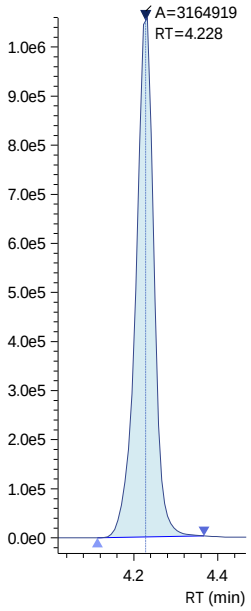
PFHxA
Conc 0.9811
R#1 3.52 (4.71)
Q 313.00>269.00 (-) 2.73e5



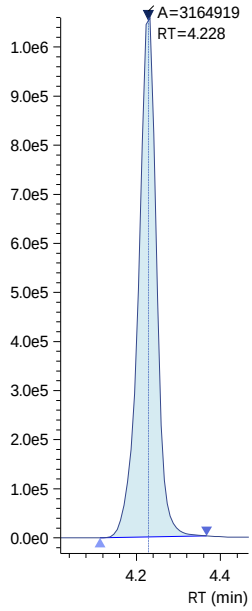
R1 313.00>119.10 (-) 1.02e4



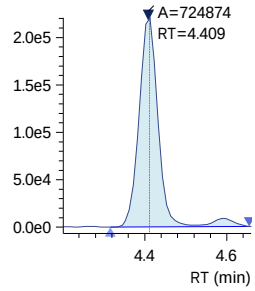
PFHxA-13C
Conc 4.6301
Q 314.90>270.10 (-) 1.06e6



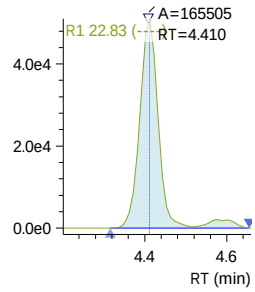
PFHxA-13C_IS
Conc 5.0000
ISTD 314.90>270.10 (-) 1.06e6



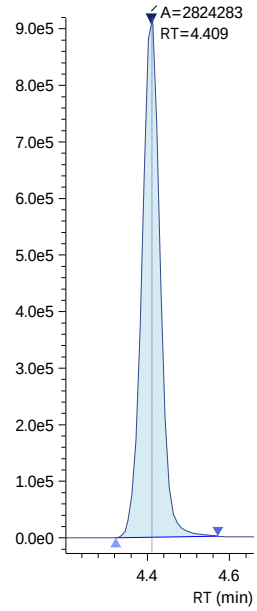
PFHpA
Conc 1.1026
R#1 22.83 (24.79)
Q 362.90>319.00 (-) 2.21e5



R1 362.90>169.00 (-) 5.10e4



PFHpA-13C
Conc 4.5560
Q 366.90>322.10 (-) 9.19e5



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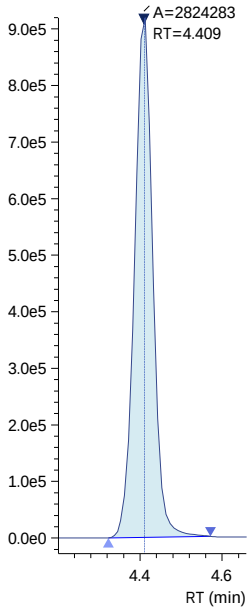
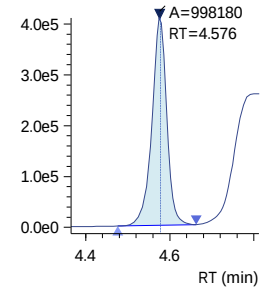
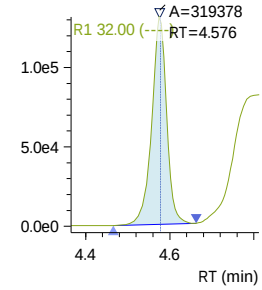
PFHpA-13C_IS
Conc 5.0000
ISTD 366.90>322.10 (-) 9.19e5



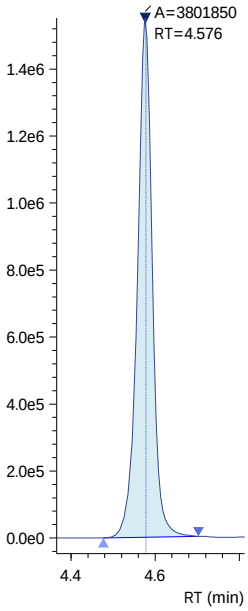
PFOA
Conc 1.0076
R#1 32.00 (30.61)
Q 413.00>369.00 (-) 4.12e5



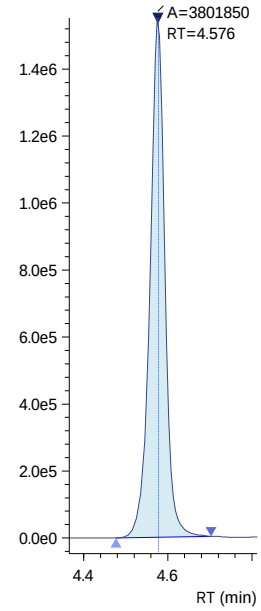
R1 413.00>169.10 (-) 1.32e5



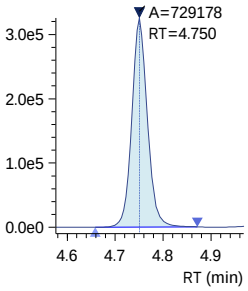
PFOA-13C
Conc 4.5875
Q 416.80>372.05 (-) 1.55e6



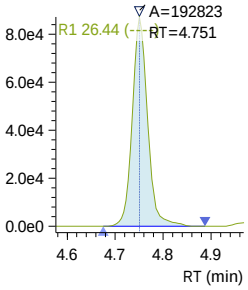
PFOA-13C_IS
Conc 5.0000
ISTD 416.80>372.05 (-) 1.55e6



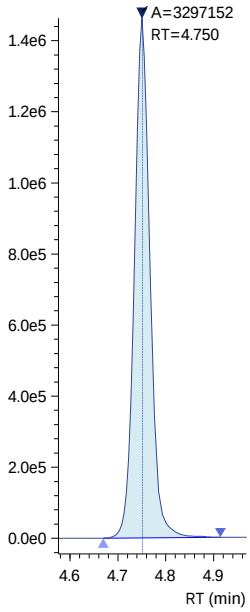
PFNA
Conc 1.0666
R#1 26.44 (23.82)
Q 463.00>418.90 (-) 3.26e5



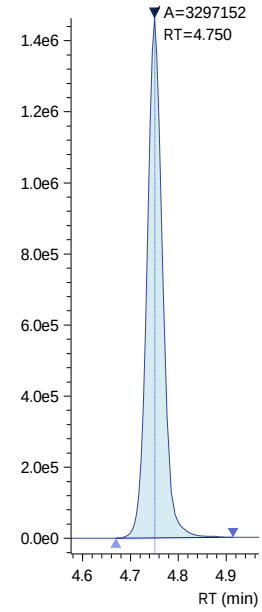
R1 463.00>219.00 (-) 8.71e4



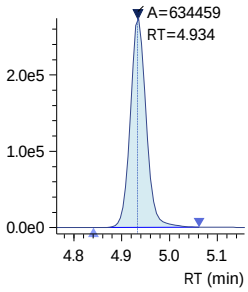
PFNA-13C
Conc 4.6178
Q 467.80>423.00 (-) 1.46e6



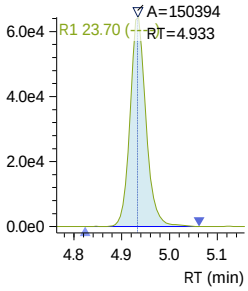
PFNA-13C_IS
Conc 5.0000
ISTD 467.80>423.00 (-) 1.46e6



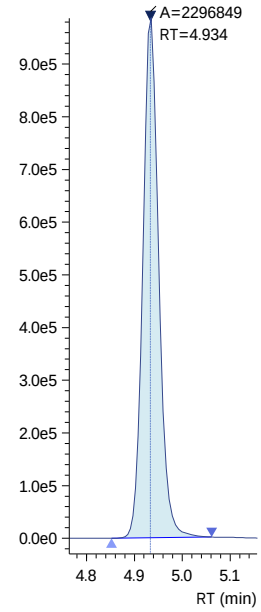
PFDA
Conc 0.9799
R#1 23.70 (20.11)
Q 513.00>468.80 (-) 2.74e5



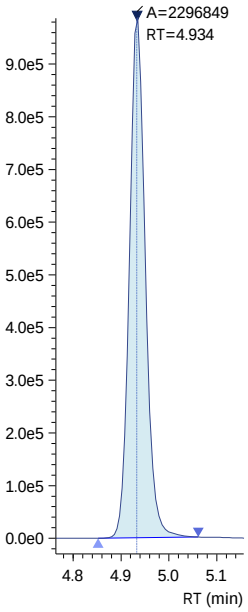
R1 513.00>219.10 (-) 6.44e4



PFDA-13C
Conc 4.6268
Q 514.80>469.95 (-) 9.87e5

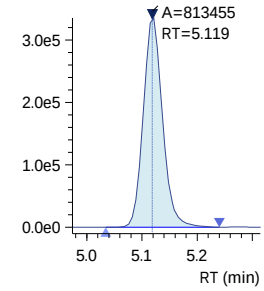


PFDA-13C_IS
Conc 5.0000
ISTD 514.80>469.95 (-) 9.87e5

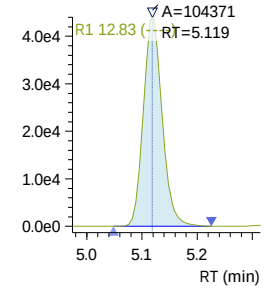


210909_017 (continued)

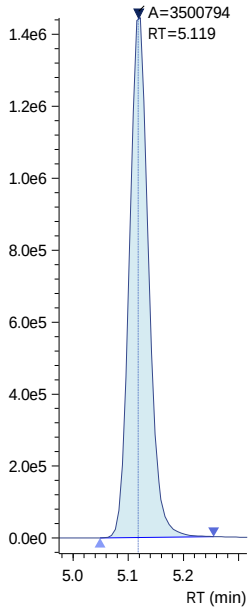
PFUnA
Conc 1.0498
R#1 12.83 (13.40)
Q 563.00>518.90 (-) 3.35e5



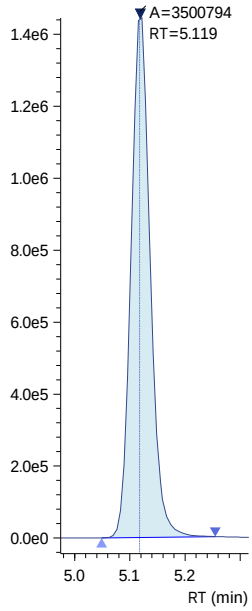
R1 563.00>219.00 (-) 4.41e4



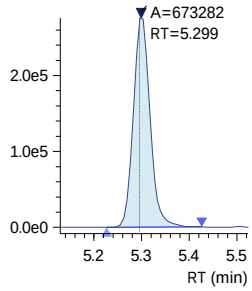
PFUnA-13C
Conc 4.6770
Q 564.80>519.95 (-) 1.45e6



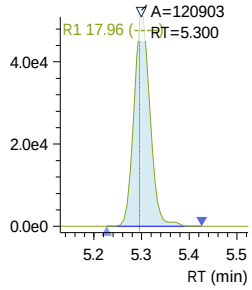
PFUnA-13C_IS
Conc 5.0000
ISTD 564.80>519.95 (-) 1.45e6



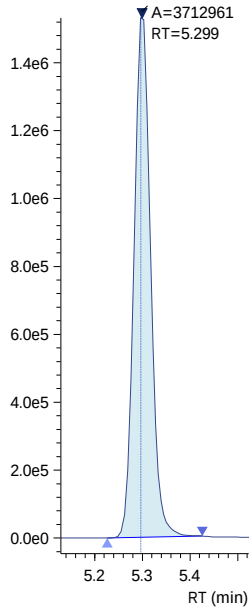
PFDoA
Conc 1.0151
R#1 17.96 (17.67)
Q 613.05>569.00 (-) 2.76e5



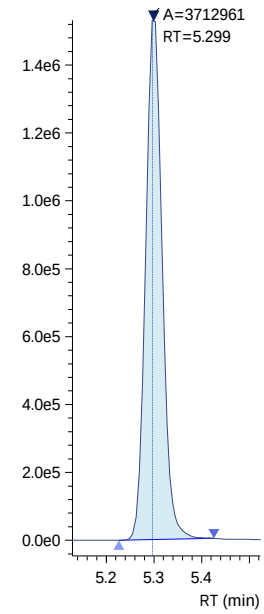
R1 613.05>169.00 (-) 5.09e4



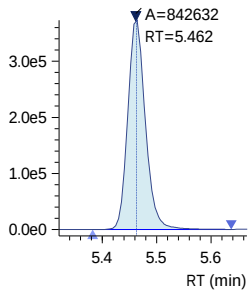
PFDoA-13C
Conc 4.4972
Q 614.80>569.95 (-) 1.53e6



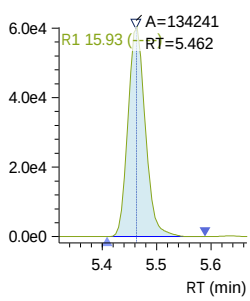
PFDoA-13C_IS
Conc 5.0000
ISTD 614.80>569.95 (-) 1.53e6



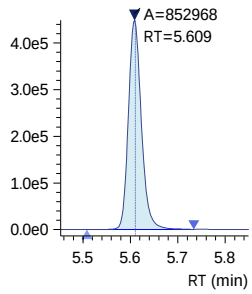
PFTrDA
Conc 1.0834
R#1 15.93 (14.03)
Q 663.00>618.90 (-) 3.73e5



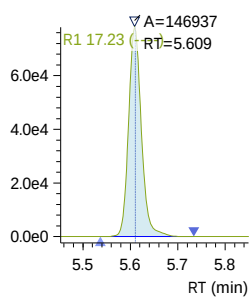
R1 662.90>169.00 (-) 6.03e4



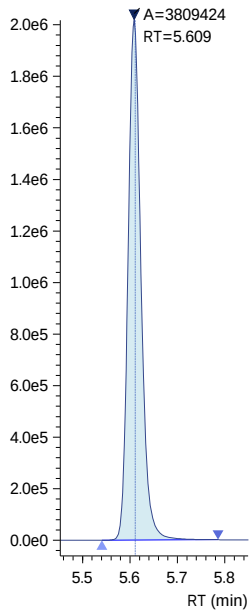
PFTeDA
Conc 1.0113
R#1 17.23 (16.71)
Q 713.00>669.00 (-) 4.49e5



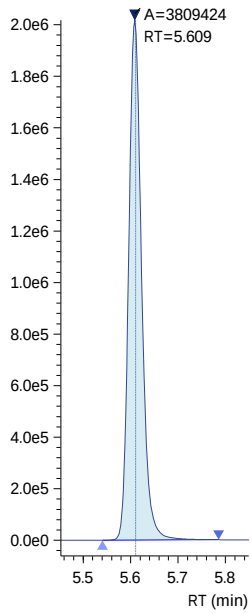
R1 713.00>169.10 (-) 7.81e4



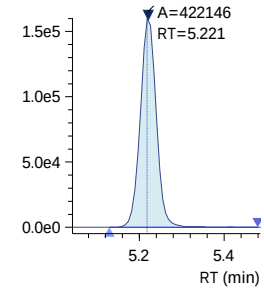
PFTeDA-13C
Conc 4.5986
Q 714.70>669.90 (-) 2.02e6

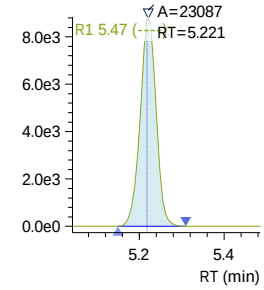


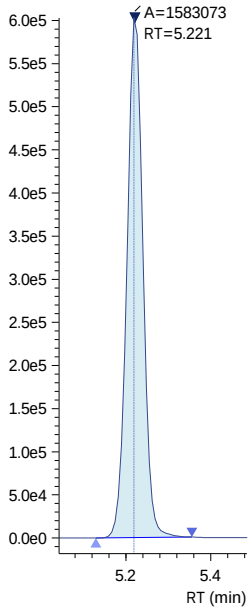
PFTeDA-13C_IS
Conc 5.0000
ISTD 714.70>669.90 (-) 2.02e6

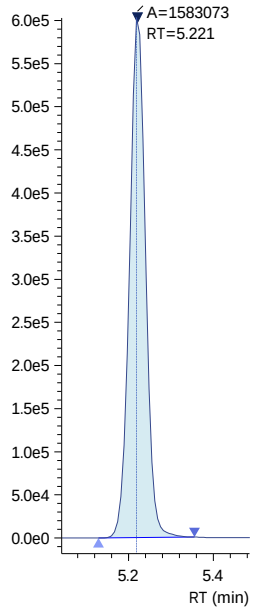


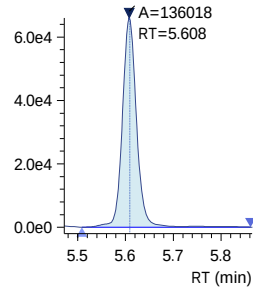
210909_017 (continued)

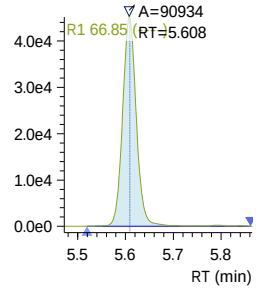
FOSA
Conc 1.1119
R#1 5.47 (4.71)
Q 498.20>78.00 (-) 1.60e5


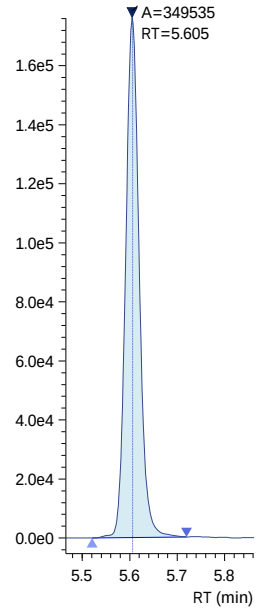
R1 498.20>64.10 (-) 8.84e3


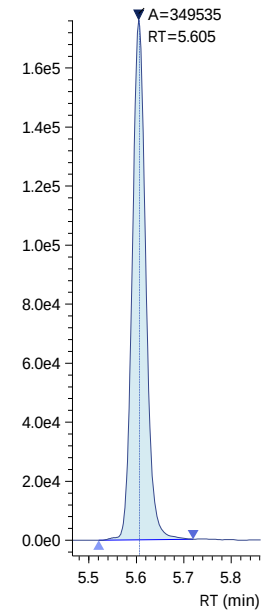
FOSA-13C
Conc 4.6058
Q 506.00>78.05 (-) 6.03e5


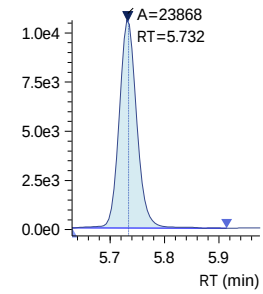
FOSA-13C_IS
Conc 5.0000
ISTD 506.00>78.05 (-) 6.03e5


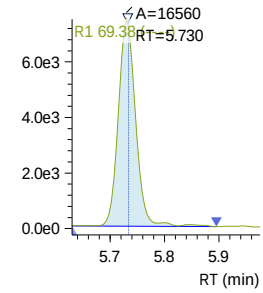
N-MeFOSA
Conc 1.0186
R#1 66.85 (66.26)
Q 512.00>169.10 (-) 6.60e4


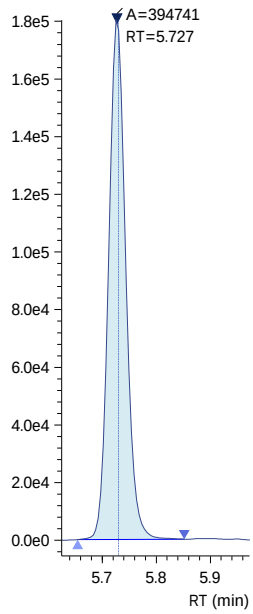
R1 512.00>219.00 (-) 4.52e4


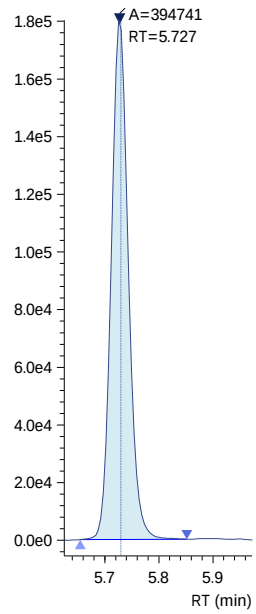
N-MeFOSA-d3
Conc 4.5323
Q 514.90>168.90 (-) 1.76e5


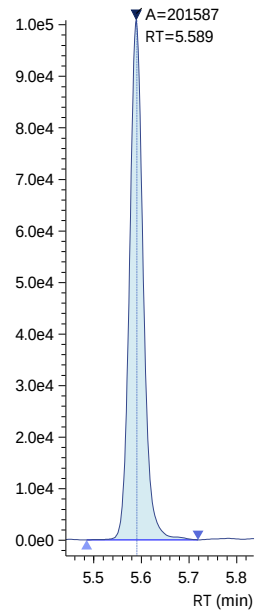
N-MeFOSA-d3_IS
Conc 5.0000
ISTD 514.90>168.90 (-) 1.76e5


N-MeFOSA
Conc 0.9695
R#1 69.38 (64.28)
Q 526.90>169.10 (-) 1.06e4


R1 526.90>219.00 (-) 7.54e3


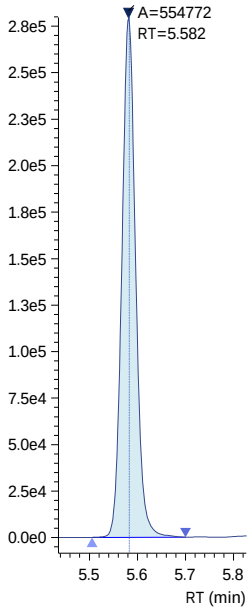
N-EtFOSA-d9
Conc 4.3936
Q 530.90>169.15 (-) 1.80e5


N-EtFOSA-d9_IS
Conc 5.0000
ISTD 530.90>169.15 (-) 1.80e5


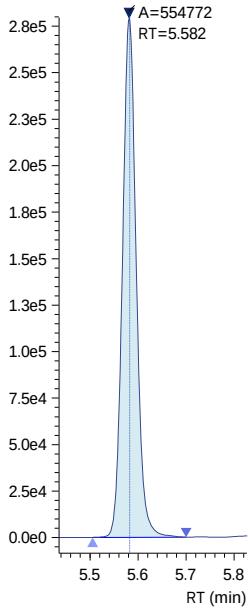
N-MeFOSE
Conc 1.0038
Q 616.00>59.00 (-) 1.01e5


210909_017 (continued)

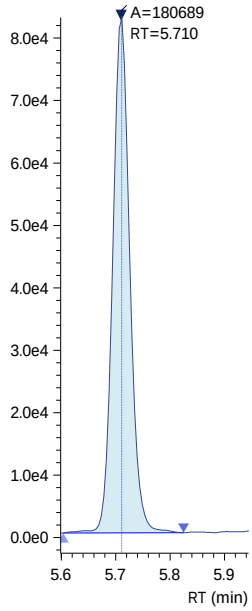
N-MeFOSE-d7
Conc 4.6717
Q 622.70>59.10 (-) 2.80e5



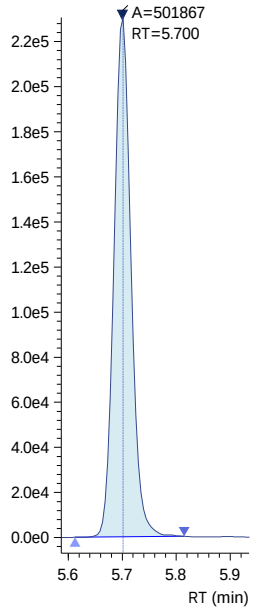
N-MeFOSE-d7_IS
Conc 5.0000
ISTD 622.70>59.10 (-) 2.80e5



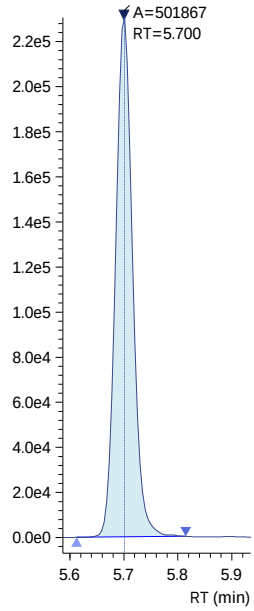
N-EtFOSE
Conc 1.0357
Q 630.00>58.90 (-) 8.33e4



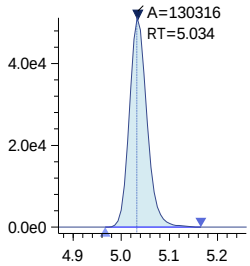
N-EtFOSE-d9
Conc 4.4627
Q 638.70>59.10 (-) 2.31e5



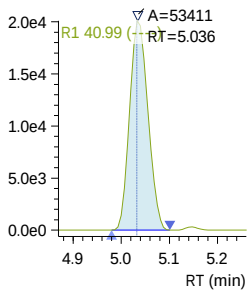
N-EtFOSE-d9_IS
Conc 5.0000
ISTD 638.70>59.10 (-) 2.31e5



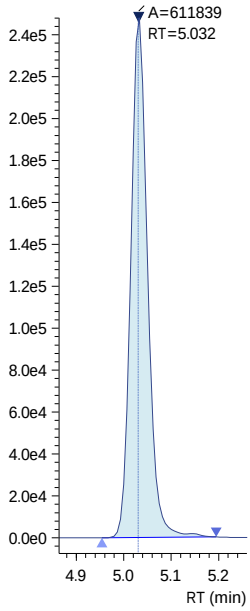
N-MeFOSAA
Conc 1.2821
R#1 40.99 (39.15)
Q 570.20>419.00 (-) 5.12e4



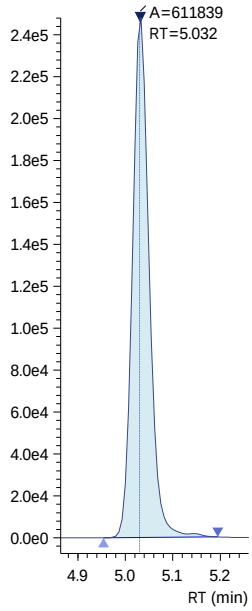
R1 570.20>512.00 (-) 2.01e4



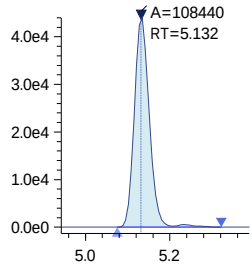
N-MeFOSAA-d3
Conc 4.4847
Q 572.80>419.05 (-) 2.48e5



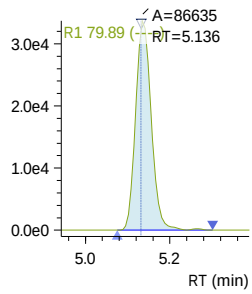
N-MeFOSAA-d3_IS
Conc 5.0000
ISTD 572.80>419.05 (-) 2.48e5



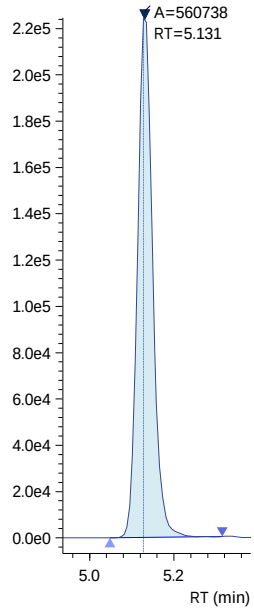
N-EtFOSAA
Conc 1.2967
R#1 79.89 (76.53)
Q 584.20>418.95 (-) 4.40e4



R1 584.20>526.10 (-) 3.37e4

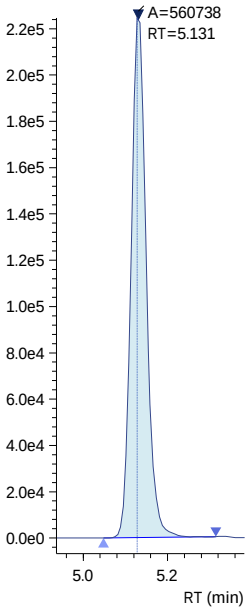


N-EtFOSAA-d5
Conc 4.8606
Q 588.80>419.00 (-) 2.25e5

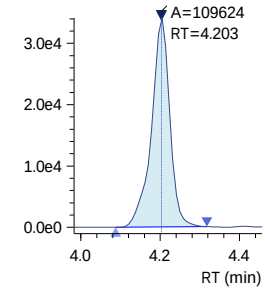


210909_017 (continued)

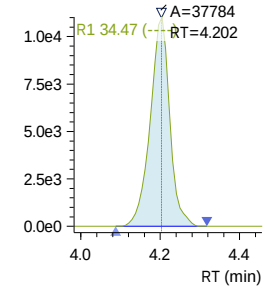
N-EtFOSAA-d5_IS
Conc 5.0000
ISTD 588.80>419.00 (-) 2.25e5



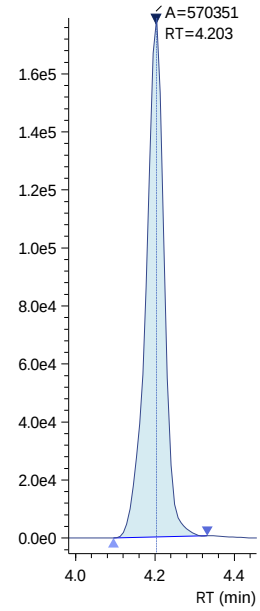
4_2-FTS_1
Conc 1.0645
R#1 34.47 (26.47)
Q 327.00>307.05 (-) 3.41e4



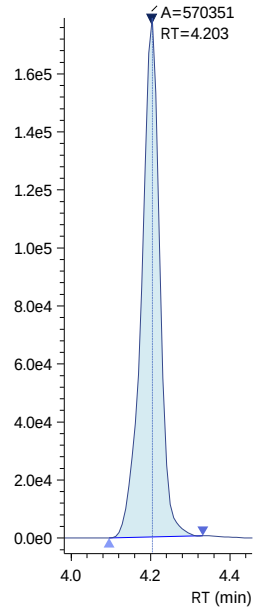
R1 327.00>81.10 (-) 1.10e4



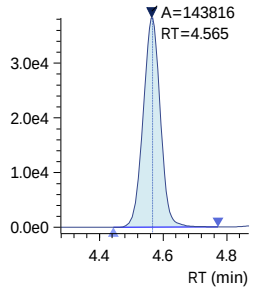
4_2-FTS-13C
Conc 4.4606
Q 328.80>309.05 (-) 1.79e5



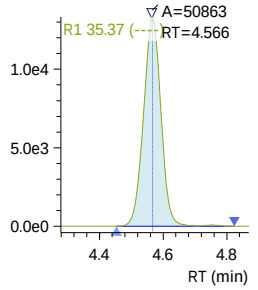
4_2-FTS-13C_IS
Conc 5.0000
ISTD 328.80>309.05 (-) 1.79e5



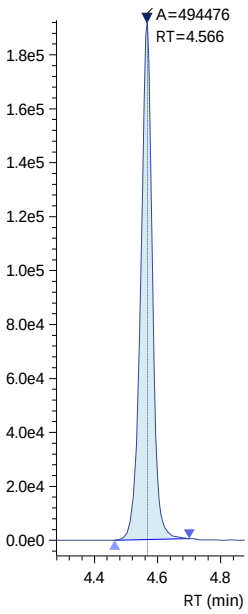
6_2-FTS_1
Conc 1.1089
R#1 35.37 (30.68)
Q 427.00>407.00 (-) 3.83e4



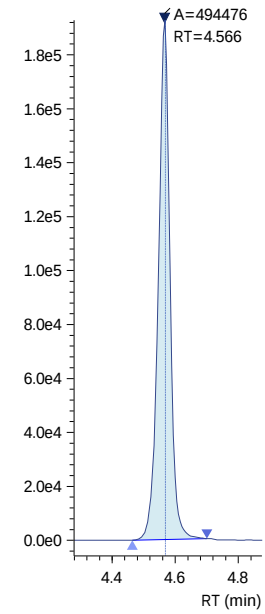
R1 427.00>80.90 (-) 1.33e4



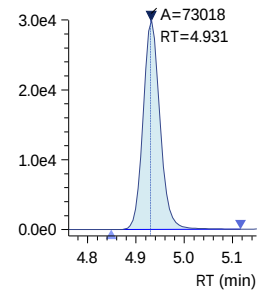
6_2-FTS-13C
Conc 4.5772
Q 428.90>409.00 (-) 1.93e5



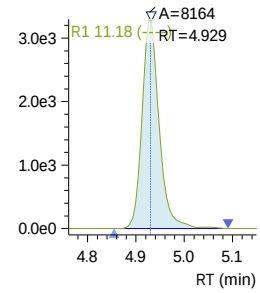
6_2-FTS-13C_IS
Conc 5.0000
ISTD 428.90>409.00 (-) 1.93e5



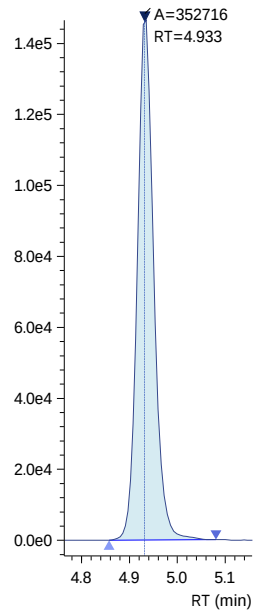
8_2-FTS_1
Conc 1.0835
R#1 11.18 (8.90)
Q 527.10>506.90 (-) 3.00e4



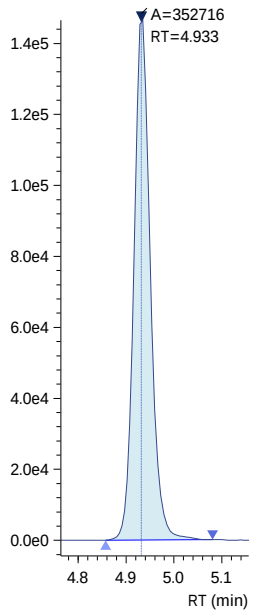
R1 527.20>487.00 (-) 3.30e3



8_2-FTS-13C
Conc 4.4913
Q 528.80>509.00 (-) 1.47e5

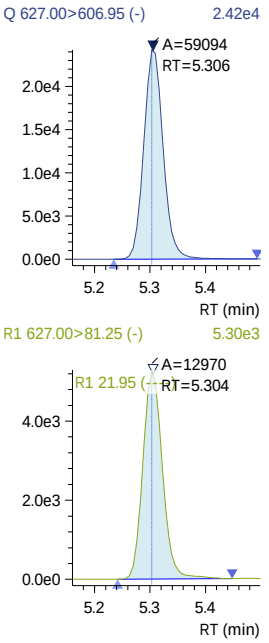


8_2-FTS-13C_IS
Conc 5.0000
ISTD 528.80>509.00 (-) 1.47e5

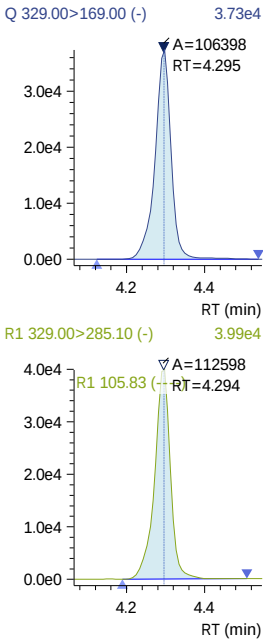


210909_017 (continued)

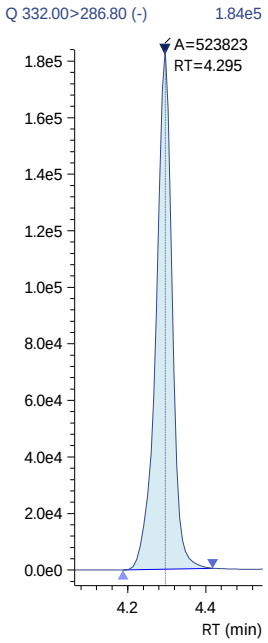
10_2-FtS_1
Conc 1.0802
R#1 21.95 (26.33)



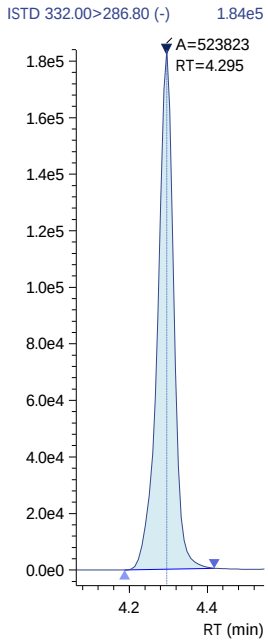
HPFO_DA
Conc 1.0011
R#1 105.83 (103.01)



HFPO_DA-13C
Conc 4.5237



HFPO_DA-13C_IS
Conc 5.0000



Insight Report
Quantitation/Integration
Printed 9/9/2021 16:33:46

210909_019

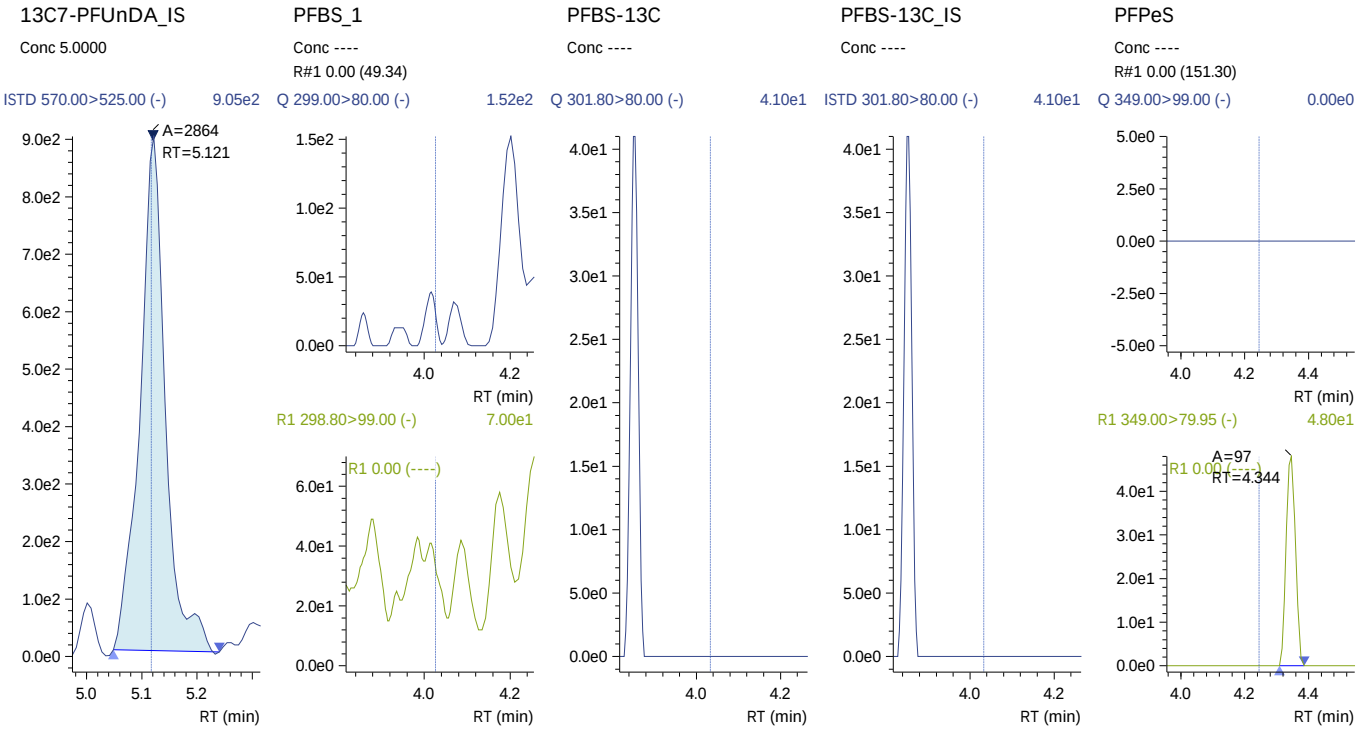
Sample ID: Tech PFOA
Date Acquired: 9/9/2021 3:50:01 PM
Acquired by: System Administrator
Data File: 210909_019
Vial: 9 | Inj. Volume: 15.0000uL | Tray: 0

Name	Mode ID	Found RT	Area	ISTD Area	ISTD Name	Std. Conc.	Conc.	Unit
13C7-PFUnDA_IS	Auto	5.121	2864	2864	----	----	5.0000	ng/mL
PFBS_1	ND(W/B)	----	----	----	PFBS-13C_IS	----	----	ng/mL
PFBS-13C	ND(W/B)	----	----	2864	13C7-PFUnDA_IS	----	----	ng/mL
PFBS-13C_IS	ND(W/B)	----	----	----	----	----	----	ng/mL
PFPeS	ND(W/B)	----	----	----	PFBS-13C_IS	----	----	ng/mL
PFHxS_1	ND(W/B)	----	----	225	PFHxS-18O_IS	----	----	ng/mL
PFHxS-18O	Auto	4.422	225	2864	13C7-PFUnDA_IS	----	5.0666	ng/mL
PFHxS-18O_IS	Auto	4.422	225	225	----	----	5.0000	ng/mL
PFHpS_1	ND(W/B)	----	----	225	PFHxS-18O_IS	----	----	ng/mL
PFOS_1	Auto	4.573	32	----	PFOS-13C_IS	----	0.0000	ng/mL
PFOS-13C	ND(W/B)	----	----	2864	13C7-PFUnDA_IS	----	----	ng/mL
PFOS-13C_IS	ND(W/B)	----	----	----	----	----	----	ng/mL
PFNS	Auto	4.822	70	----	PFOS-13C_IS	----	0.0000	ng/mL
PFDS_1	ND(W/B)	----	----	----	PFOS-13C_IS	----	----	ng/mL
PFBA	ND(W/B)	----	----	----	PFBA-13C_IS	----	----	ng/mL
PFBA-13C	ND(W/B)	----	----	2864	13C7-PFUnDA_IS	----	----	ng/mL
PFBA-13C_IS	ND(W/B)	----	----	----	----	----	----	ng/mL
PFPeA	Auto	3.864	22802	----	PFPeA-13C_IS	----	0.0000	ng/mL
PFPeA-13C	ND(W/B)	----	----	2864	13C7-PFUnDA_IS	----	----	ng/mL
PFPeA-13C_IS	ND(W/B)	----	----	----	----	----	----	ng/mL
PFHxA	ND(W/B)	----	----	708	PFHxA-13C_IS	----	----	ng/mL
PFHxA-13C	Auto	4.234	708	2864	13C7-PFUnDA_IS	----	1.9546	ng/mL
PFHxA-13C_IS	Auto	4.234	708	708	----	----	5.0000	ng/mL
PFHpA	ND(W/B)	----	----	621	PFHpA-13C_IS	----	----	ng/mL
PFHpA-13C	Auto	4.462	621	2864	13C7-PFUnDA_IS	----	1.8903	ng/mL
PFHpA-13C_IS	Auto	4.462	621	621	----	----	5.0000	ng/mL
PFOA	Auto	4.578	864871	43	PFOA-13C_IS	----	73369.7339	ng/mL
PFOA-13C	Auto	4.729	43	2864	13C7-PFUnDA_IS	----	0.0979	ng/mL
PFOA-13C_IS	Auto	4.729	43	43	----	----	5.0000	ng/mL
PFNA	ND(W/B)	----	----	----	PFNA-13C_IS	----	----	ng/mL
PFNA-13C	ND(W/B)	----	----	2864	13C7-PFUnDA_IS	----	----	ng/mL
PFNA-13C_IS	ND(W/B)	----	----	----	----	----	----	ng/mL
PFDA	Auto	4.965	715	----	PFDA-13C_IS	----	0.0000	ng/mL
PFDA-13C	ND(W/B)	----	----	2864	13C7-PFUnDA_IS	----	----	ng/mL
PFDA-13C_IS	ND(W/B)	----	----	----	----	----	----	ng/mL
PFUnA	ND(W/B)	----	----	----	PFUnA-13C_IS	----	----	ng/mL
PFUnA-13C	ND(W/B)	----	----	2864	13C7-PFUnDA_IS	----	----	ng/mL
PFUnA-13C_IS	ND(W/B)	----	----	----	----	----	----	ng/mL
PFDoA	Auto	5.303	581	971	PFDoA-13C_IS	----	3.3576	ng/mL
PFDoA-13C	Auto	5.320	971	2864	13C7-PFUnDA_IS	----	2.2197	ng/mL
PFDoA-13C_IS	Auto	5.320	971	971	----	----	5.0000	ng/mL
PFTrDA	Auto	5.459	976	2705	PFTeDA-13C_IS	----	1.7673	ng/mL
PFTeDA	Auto	5.614	1689	2705	PFTeDA-13C_IS	----	2.8202	ng/mL
PFTeDA-13C	Auto	5.616	2705	2864	13C7-PFUnDA_IS	----	6.1616	ng/mL
PFTeDA-13C_IS	Auto	5.616	2705	2705	----	----	5.0000	ng/mL
FOSA	ND(W/B)	----	----	1042	FOSA-13C_IS	----	----	ng/mL
FOSA-13C	Auto	5.252	1042	2864	13C7-PFUnDA_IS	----	5.7213	ng/mL
FOSA-13C_IS	Auto	5.252	1042	1042	----	----	5.0000	ng/mL
N-MeFOSA	Auto	5.622	1416	----	N-MeFOSA-d3_IS	----	0.0000	ng/mL
N-MeFOSA-d3	ND(W/B)	----	----	2864	13C7-PFUnDA_IS	----	----	ng/mL
N-MeFOSA-d3_IS	ND(W/B)	----	----	----	----	----	----	ng/mL
N-EtFOSA	ND(W/B)	----	----	1361	N-EtFOSA-d9_IS	----	----	ng/mL
N-EtFOSA-d9	Auto	5.748	1361	2864	13C7-PFUnDA_IS	----	28.5873	ng/mL
N-EtFOSA-d9_IS	Auto	5.748	1361	1361	----	----	5.0000	ng/mL

210909_019 (continued)

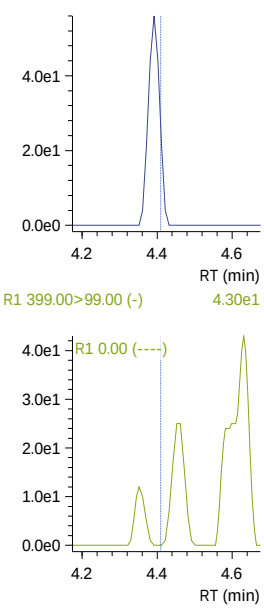
(Table continued from previous page)

Name	Mode ID	Found RT	Area	ISTD Area	ISTD Name	Std. Conc.	Conc.	Unit
N-MeFOSE	Auto	5.591	1099	1392	N-MeFOSE-d7_IS	----	2.1959	ng/mL
N-MeFOSE-d7	Auto	5.641	1392	2864	13C7-PFUnDA_IS	----	22.1254	ng/mL
N-MeFOSE-d7_IS	Auto	5.641	1392	1392	----	----	5.0000	ng/mL
N-EtFOSE	ND(W/B)	----	----	74	N-EtFOSE-d9_IS	----	----	ng/mL
N-EtFOSE-d9	Auto	5.669	74	2864	13C7-PFUnDA_IS	----	1.2493	ng/mL
N-EtFOSE-d9_IS	Auto	5.669	74	74	----	----	5.0000	ng/mL
N-MeFOSAA	ND(W/B)	----	----	1857	N-MeFOSAA-d3_IS	----	----	ng/mL
N-MeFOSAA-d3	Auto	5.044	1857	2864	13C7-PFUnDA_IS	----	25.6879	ng/mL
N-MeFOSAA-d3_IS	Auto	5.044	1857	1857	----	----	5.0000	ng/mL
N-EtFOSAA	ND(W/B)	----	----	----	N-EtFOSAA-d5_IS	----	----	ng/mL
N-EtFOSAA-d5	ND(W/B)	----	----	2864	13C7-PFUnDA_IS	----	----	ng/mL
N-EtFOSAA-d5_IS	ND(W/B)	----	----	----	----	----	----	ng/mL
4_2-FTS_1	ND(W/B)	----	----	----	4_2-FTS-13C_IS	----	----	ng/mL
4_2-FTS-13C	ND(W/B)	----	----	2864	13C7-PFUnDA_IS	----	----	ng/mL
4_2-FTS-13C_IS	ND(W/B)	----	----	----	----	----	----	ng/mL
6_2-FTS_1	Auto	4.557	47	----	6_2-FTS-13C_IS	----	0.0000	ng/mL
6_2-FTS-13C	ND(W/B)	----	----	2864	13C7-PFUnDA_IS	----	----	ng/mL
6_2-FTS-13C_IS	ND(W/B)	----	----	----	----	----	----	ng/mL
8_2-FTS_1	ND(W/B)	----	----	----	8_2-FTS-13C_IS	----	----	ng/mL
8_2-FTS-13C	ND(W/B)	----	----	2864	13C7-PFUnDA_IS	----	----	ng/mL
8_2-FTS-13C_IS	ND(W/B)	----	----	----	----	----	----	ng/mL
10_2-FtS_1	Auto	5.384	6	----	8_2-FTS-13C_IS	----	0.0000	ng/mL
HPFO_DA	Auto	4.409	307	----	HFPO_DA-13C_IS	----	0.0000	ng/mL
HFPO_DA-13C	ND(W/B)	----	----	2864	13C7-PFUnDA_IS	----	----	ng/mL
HFPO_DA-13C_IS	ND(W/B)	----	----	----	----	----	----	ng/mL

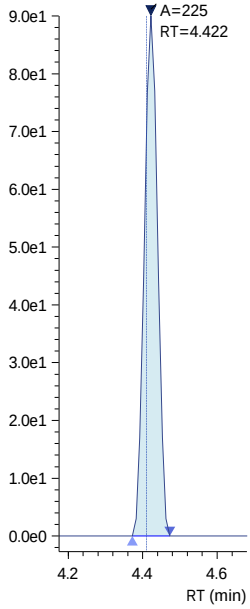


210909_019 (continued)

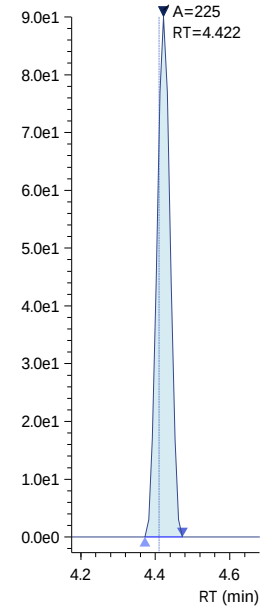
PFHxS_1
Conc ----
R#1 0.00 (62.92)
Q 399.00>80.00 (-) 5.60e1
R1 399.00>99.00 (-) 4.30e1



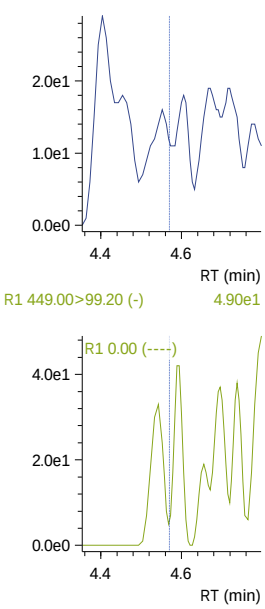
PFHxS-18O
Conc 5.0666
Q 402.70>84.05 (-) 9.00e1



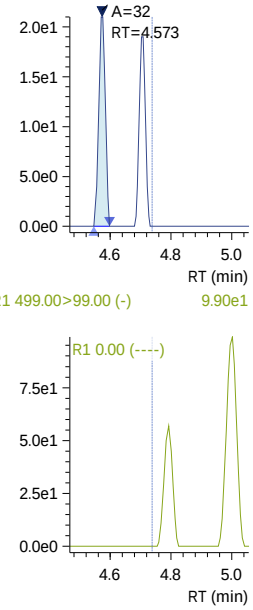
PFHxS-18O_IS
Conc 5.0000
ISTD 402.70>84.05 (-) 9.00e1



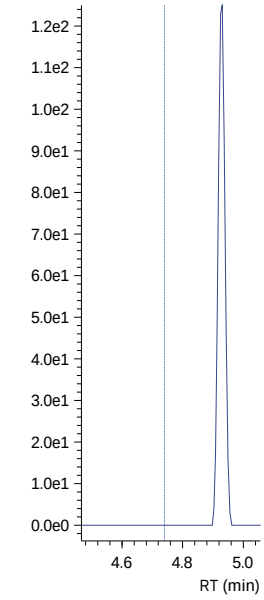
PFHpS_1
Conc ----
R#1 0.00 (40.53)
Q 449.00>80.15 (-) 2.90e1
R1 449.00>99.20 (-) 4.90e1



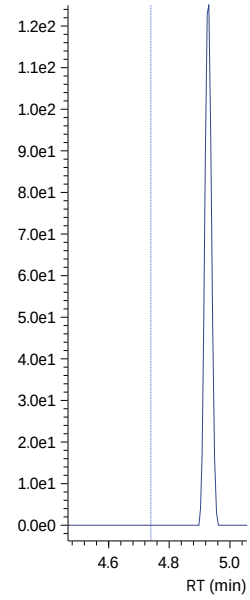
PFOS_1
Conc 0.0000
R#1 0.00 (73.81)
Q 499.00>80.00 (-) 2.10e1
R1 499.00>99.00 (-) 9.90e1



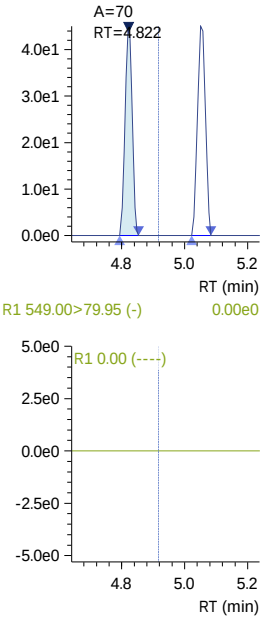
PFOS-13C
Conc ----
Q 502.80>80.05 (-) 1.25e2



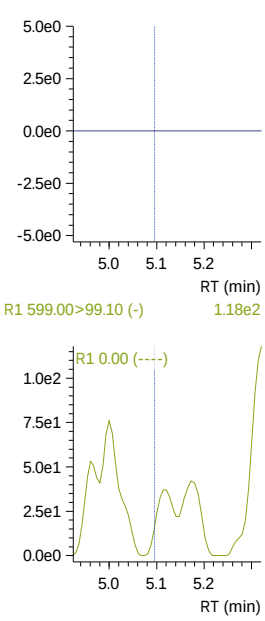
PFOS-13C_IS
Conc ----
ISTD 502.80>80.05 (-) 1.25e2



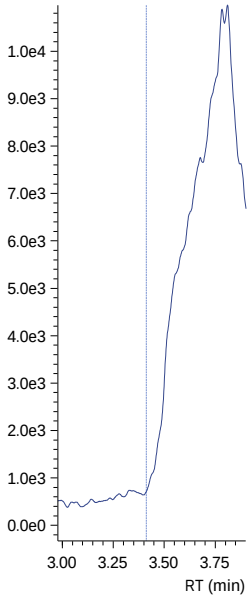
PFNS
Conc 0.0000
R#1 0.00 (160.25)
Q 549.00>99.00 (-) 4.50e1
R1 549.00>79.95 (-) 0.00e0



PFDS_1
Conc ----
R#1 0.00 (72.12)
Q 599.00>79.90 (-) 0.00e0
R1 599.00>99.10 (-) 1.18e2

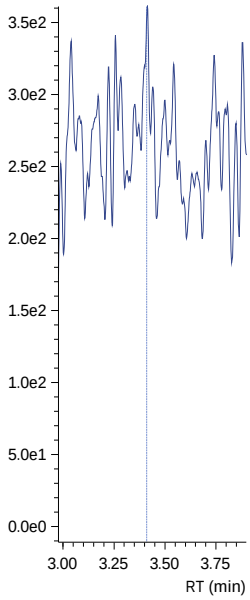


PFBA
Conc ----
Q 213.00>169.10 (-) 1.10e4

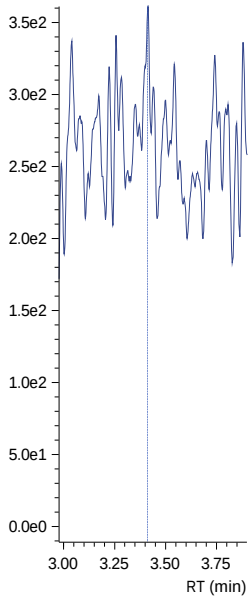


210909_019 (continued)

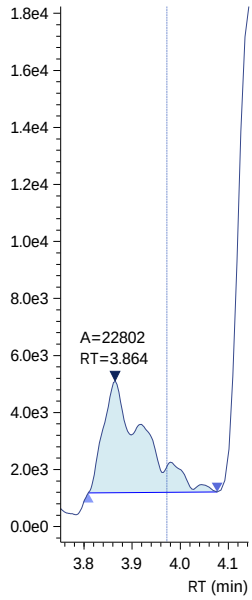
PFBA-13C
Conc ----
Q 216.90>172.15 (-) 3.61e2



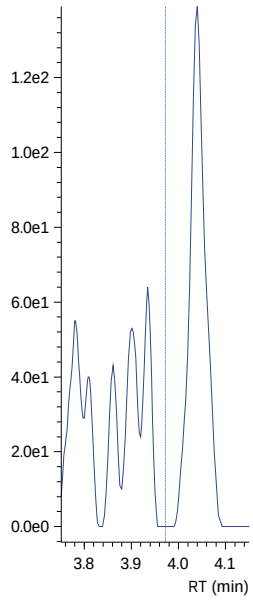
PFBA-13C_IS
Conc ----
ISTD 216.90>172.15 (-) 3.61e2



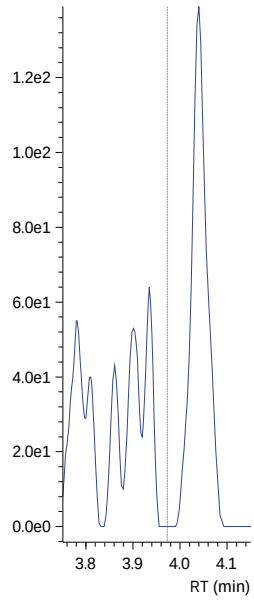
PFPeA
Conc 0.0000
Q 263.05>219.10 (-) 1.82e4



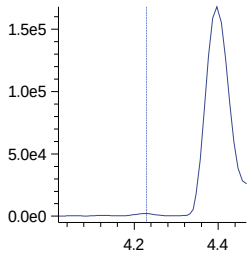
PFPeA-13C
Conc ----
Q 267.90>223.00 (-) 1.39e2



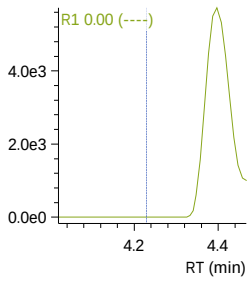
PFPeA-13C_IS
Conc ----
ISTD 267.90>223.00 (-) 1.39e2



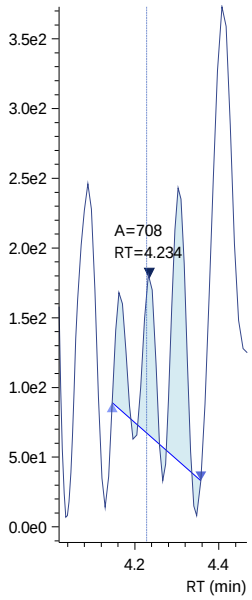
PFHxA
Conc ----
R#1 0.00 (4.40)
Q 313.00>269.00 (-) 1.68e5



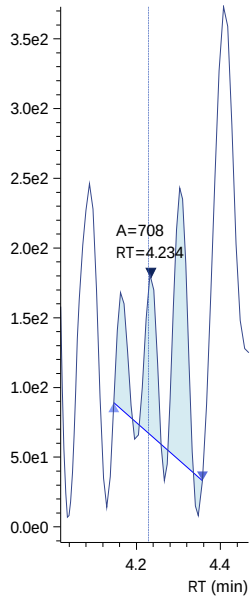
R1 313.00>119.10 (-) 5.73e3



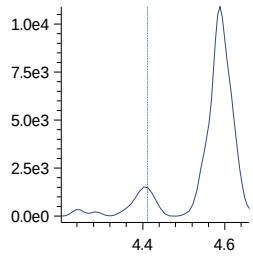
PFHxA-13C
Conc 1.9546
Q 314.90>270.10 (-) 3.73e2



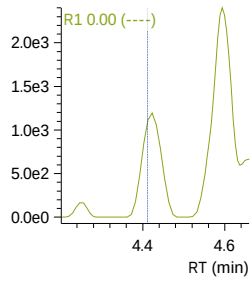
PFHxA-13C_IS
Conc 5.0000
ISTD 314.90>270.10 (-) 3.73e2



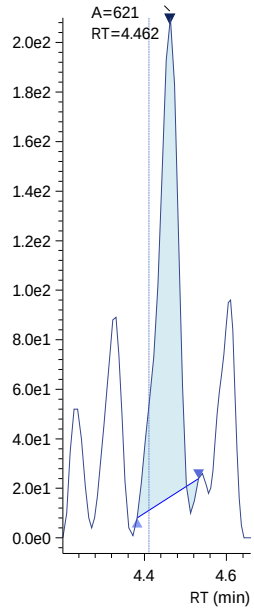
PFHpA
Conc ----
R#1 0.00 (24.40)
Q 362.90>319.00 (-) 1.09e4



R1 362.90>169.00 (-) 2.40e3

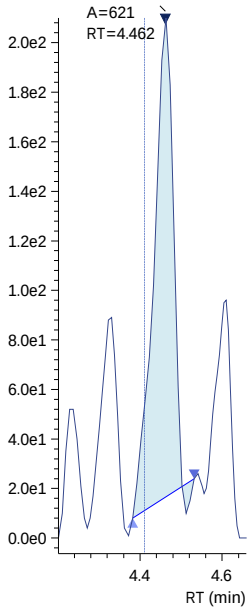


PFHpA-13C
Conc 1.8903
Q 366.90>322.10 (-) 2.10e2

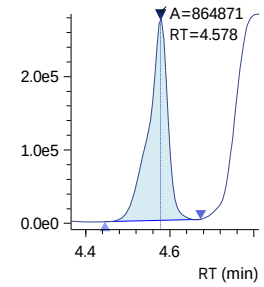


210909_019 (continued)

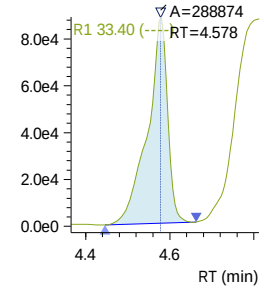
PFHpA-13C_IS
Conc 5.0000
ISTD 366.90>322.10 (-) 2.10e2



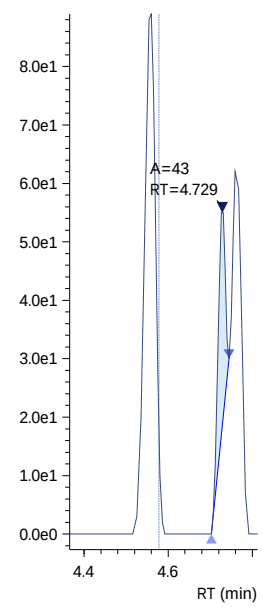
PFOA
Conc 73369.7339
R#1 33.40 (31.89)
Q 413.00>369.00 (-) 2.85e5



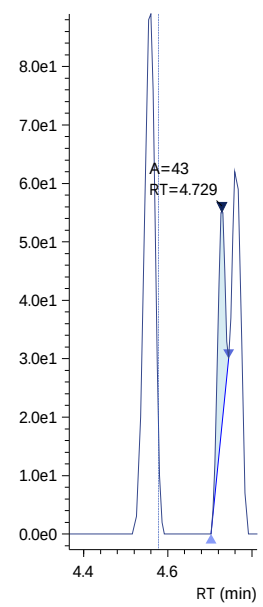
R1 413.00>169.10 (-) 8.94e4



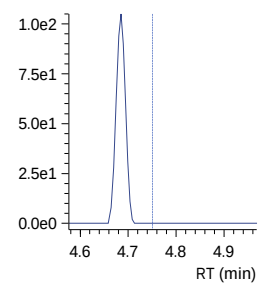
PFOA-13C
Conc 0.0979
Q 416.80>372.05 (-) 8.90e1



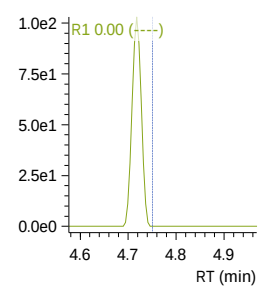
PFOA-13C_IS
Conc 5.0000
ISTD 416.80>372.05 (-) 8.90e1



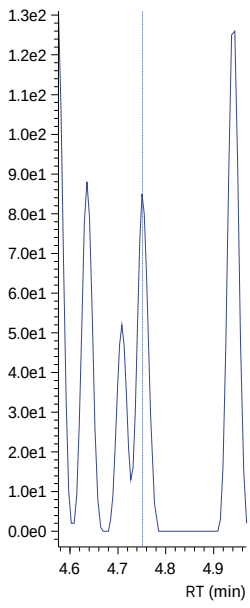
PFNA
Conc ----
R#1 0.00 (23.25)
Q 463.00>418.90 (-) 1.05e2



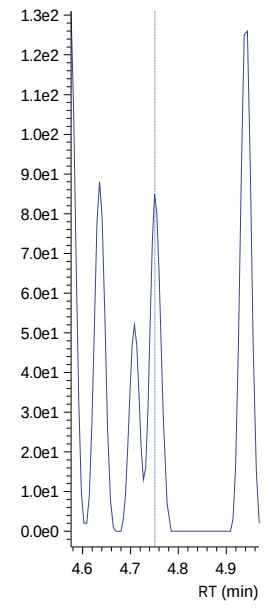
R1 463.00>219.00 (-) 1.03e2



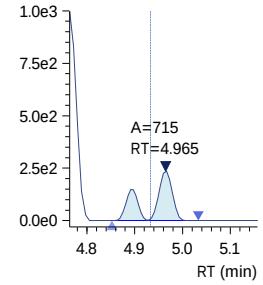
PFNA-13C
Conc ----
Q 467.80>423.00 (-) 1.31e2



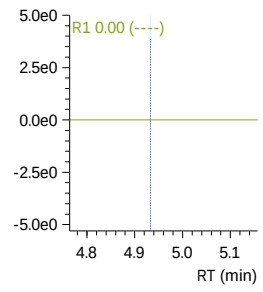
PFNA-13C_IS
Conc ----
ISTD 467.80>423.00 (-) 1.31e2



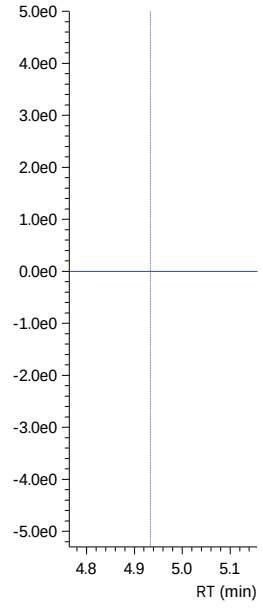
PFDA
Conc 0.0000
R#1 0.00 (20.24)
Q 513.00>468.80 (-) 9.98e2



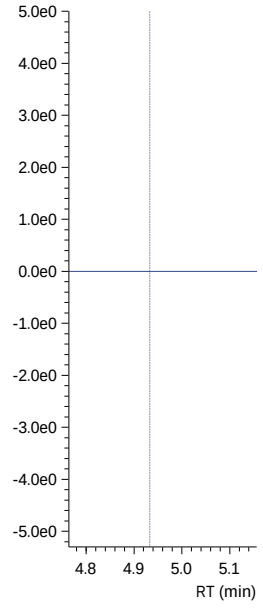
R1 513.00>219.10 (-) 0.00e0



PFDA-13C
Conc ----
Q 514.80>469.95 (-) 0.00e0

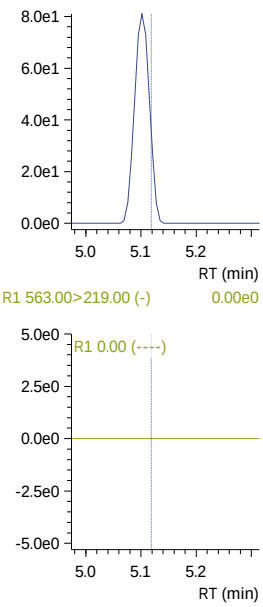


PFDA-13C_IS
Conc ----
ISTD 514.80>469.95 (-) 0.00e0

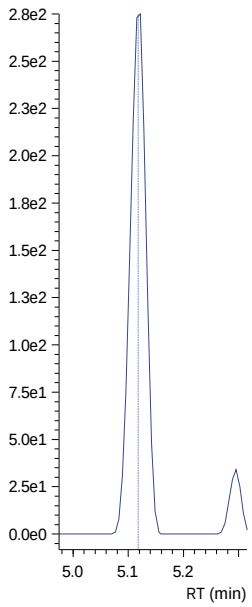


210909_019 (continued)

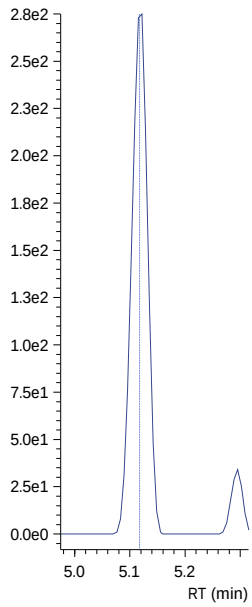
PFUnA
Conc ----
R#1 0.00 (12.46)
Q 563.00>518.90 (-) 8.10e1
R1 563.00>219.00 (-) 0.00e0



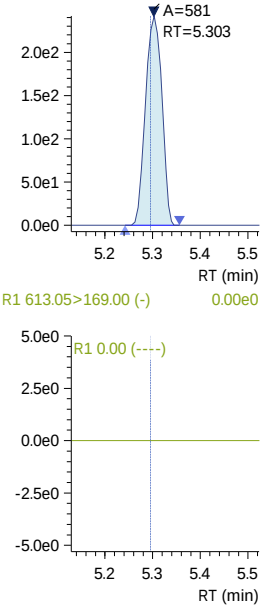
PFUnA-13C
Conc ----
Q 564.80>519.95 (-) 2.75e2



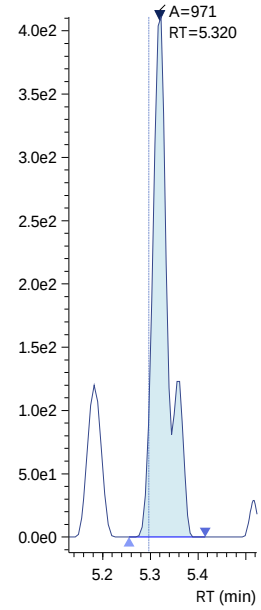
PFUnA-13C_IS
Conc ----
ISTD 564.80>519.95 (-) 2.75e2



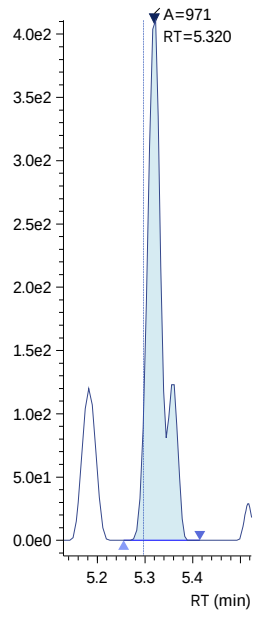
PFDoA
Conc 3.3576
R#1 0.00 (16.50)
Q 613.05>569.00 (-) 2.42e2
R1 613.05>169.00 (-) 0.00e0



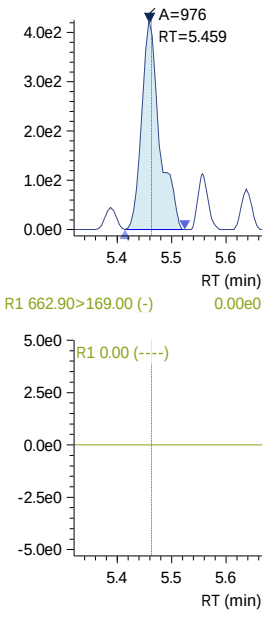
PFDoA-13C
Conc 2.2197
Q 614.80>569.95 (-) 4.11e2



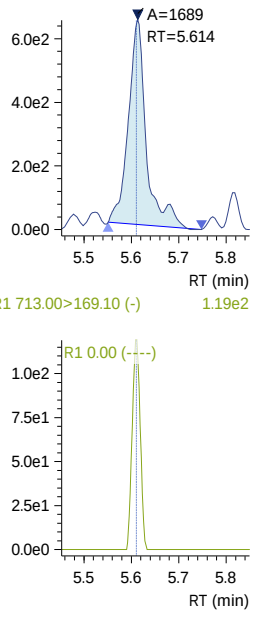
PFDoA-13C_IS
Conc 5.0000
ISTD 614.80>569.95 (-) 4.11e2



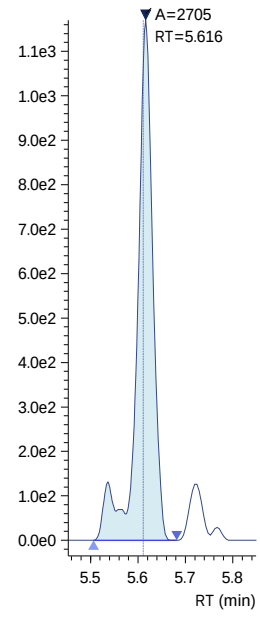
PFTrDA
Conc 1.7673
R#1 0.00 (15.29)
Q 663.00>618.90 (-) 4.25e2
R1 662.90>169.00 (-) 0.00e0



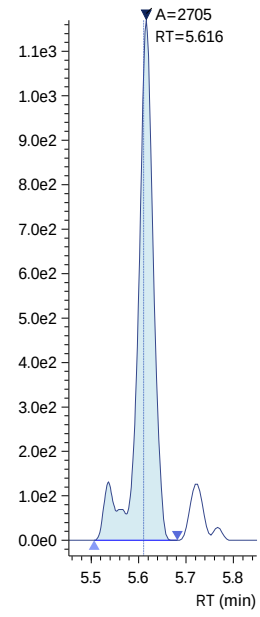
PFTeDA
Conc 2.8202
R#1 0.00 (17.47)
Q 713.00>669.00 (-) 6.58e2
R1 713.00>169.10 (-) 1.19e2



PFTeDA-13C
Conc 6.1616
Q 714.70>669.90 (-) 1.17e3



PFTeDA-13C_IS
Conc 5.0000
ISTD 714.70>669.90 (-) 1.17e3



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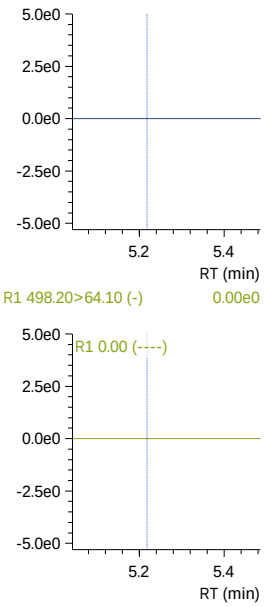
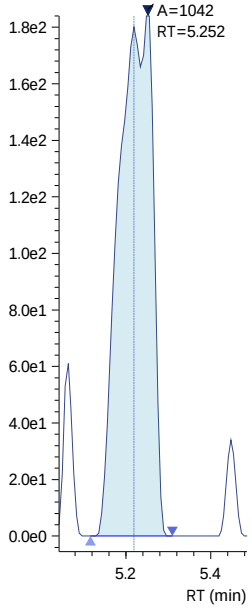
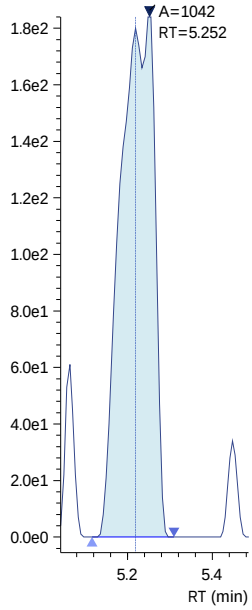
FOSA
Conc ----
R#1 0.00 (5.19)
Q 498.20>78.00 (-) 0.00e0
R1 498.20>64.10 (-) 0.00e0



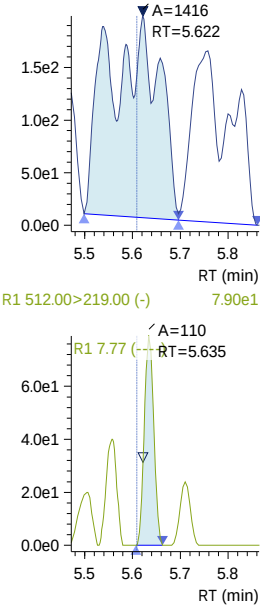
FOSA-13C
Conc 5.7213
Q 506.00>78.05 (-) 1.84e2



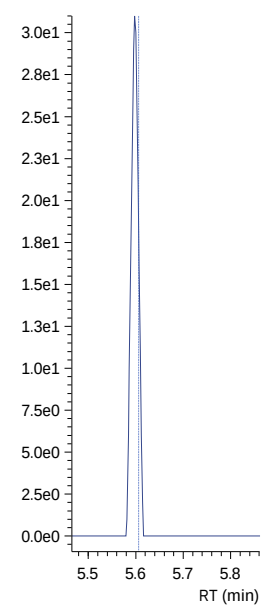
FOSA-13C_IS
Conc 5.0000
ISTD 506.00>78.05 (-) 1.84e2



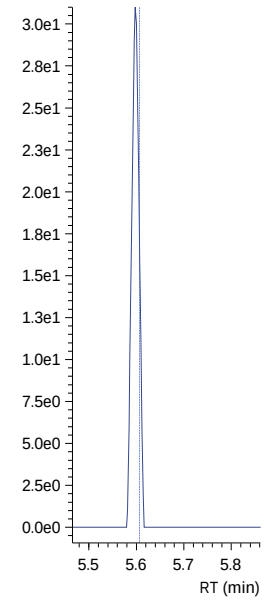
N-MeFOSA
Conc 0.0000
R#1 7.77 (69.94)
Q 512.00>169.10 (-) 1.99e2
R1 512.00>219.00 (-) 7.90e1



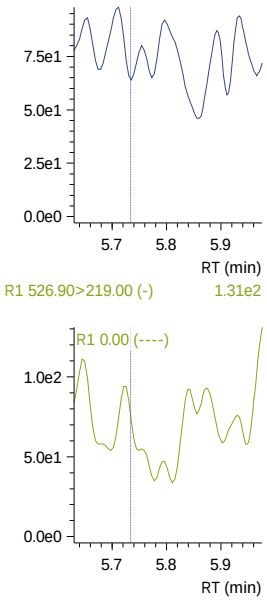
N-MeFOSA-d3
Conc ----
Q 514.90>168.90 (-) 3.10e1



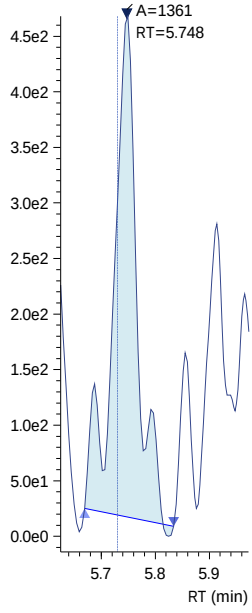
N-MeFOSA-d3_IS
Conc ----
ISTD 514.90>168.90 (-) 3.10e1



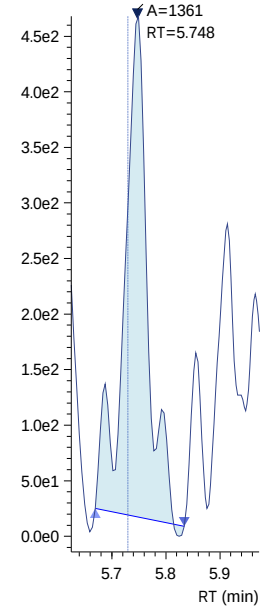
N-MeFOSA
Conc ----
R#1 0.00 (66.52)
Q 526.90>169.10 (-) 9.80e1
R1 526.90>219.00 (-) 1.31e2



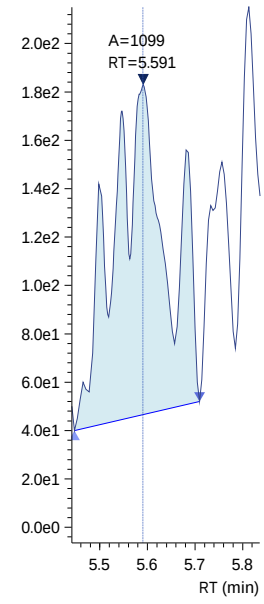
N-EtFOSA-d9
Conc 28.5873
Q 530.90>169.15 (-) 4.68e2



N-EtFOSA-d9_IS
Conc 5.0000
ISTD 530.90>169.15 (-) 4.68e2

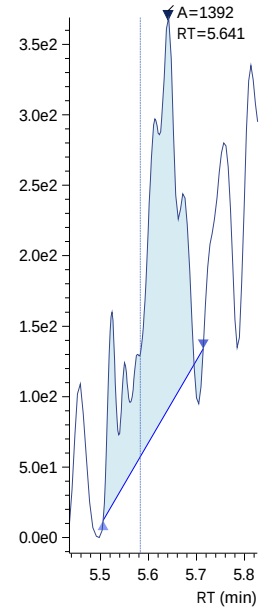


N-MeFOSE
Conc 2.1959
Q 616.00>59.00 (-) 2.15e2

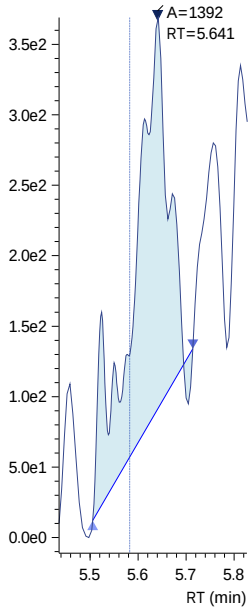


210909_019 (continued)

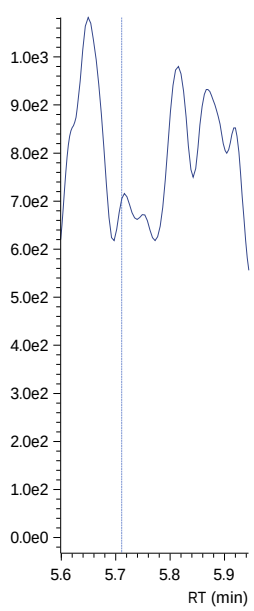
N-MeFOSE-d7
Conc 22.1254
Q 622.70>59.10 (-) 3.69e2



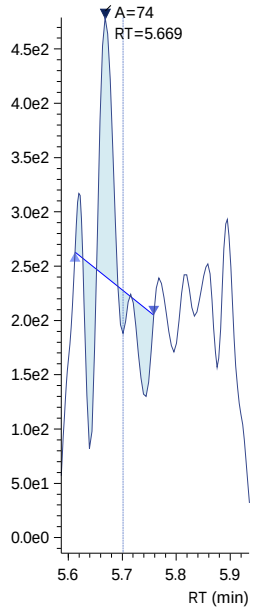
N-MeFOSE-d7_IS
Conc 5.0000
ISTD 622.70>59.10 (-) 3.69e2



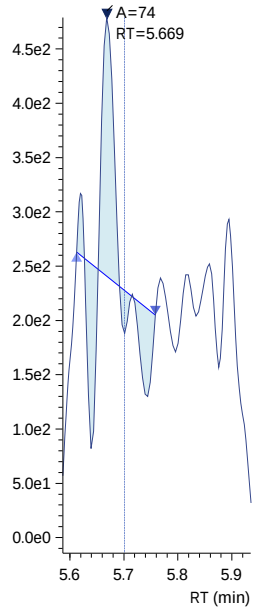
N-EtFOSE
Conc ----
Q 630.00>58.90 (-) 1.08e3



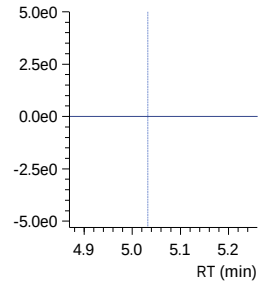
N-EtFOSE-d9
Conc 1.2493
Q 638.70>59.10 (-) 4.79e2



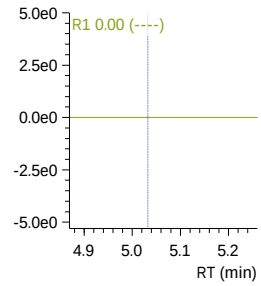
N-EtFOSE-d9_IS
Conc 5.0000
ISTD 638.70>59.10 (-) 4.79e2



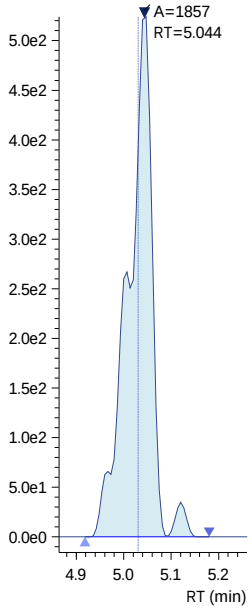
N-MeFOSAA
Conc ----
R#1 0.00 (39.56)
Q 570.20>419.00 (-) 0.00e0



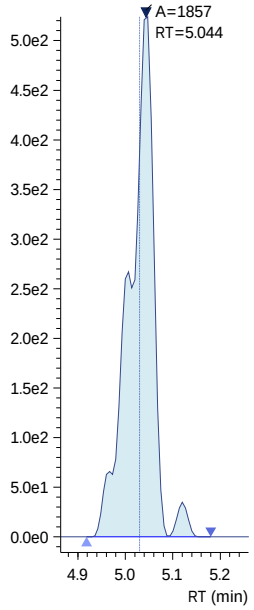
R1 570.20>512.00 (-) 0.00e0



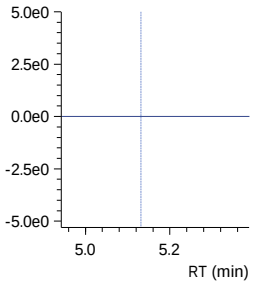
N-MeFOSAA-d3
Conc 25.6879
Q 572.80>419.05 (-) 5.24e2



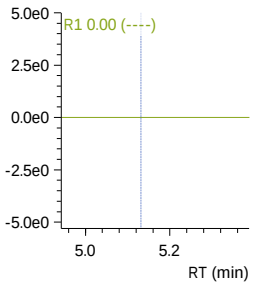
N-MeFOSAA-d3_IS
Conc 5.0000
ISTD 572.80>419.05 (-) 5.24e2



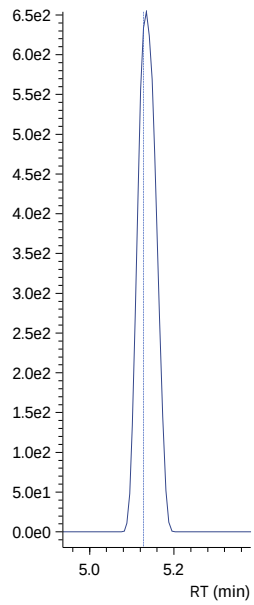
N-EtFOSAA
Conc ----
R#1 0.00 (84.54)
Q 584.20>418.95 (-) 0.00e0



R1 584.20>526.10 (-) 0.00e0

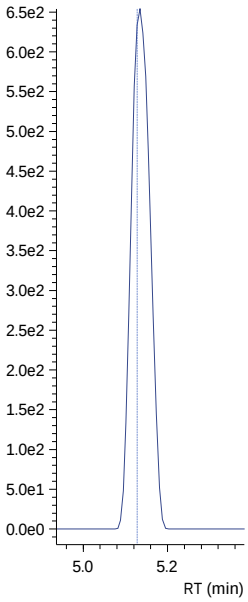


N-EtFOSAA-d5
Conc ----
Q 588.80>419.00 (-) 6.54e2

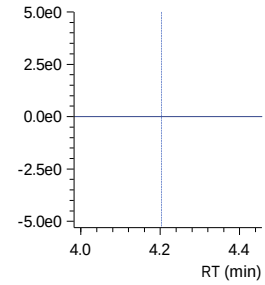


210909_019 (continued)

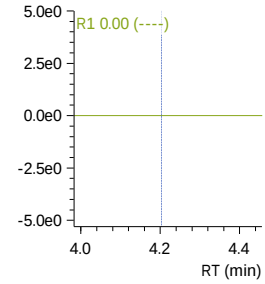
N-EtFOSAA-d5_IS
Conc ----
ISTD 588.80>419.00 (-) 6.54e2



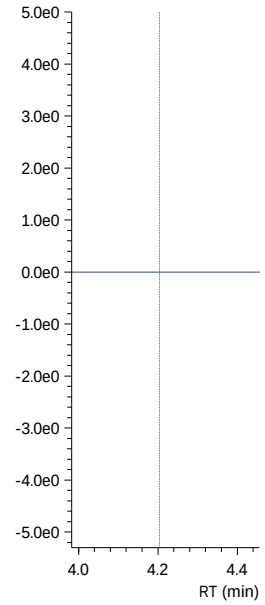
4_2-FTS_1
Conc ----
R#1 0.00 (34.12)
Q 327.00>307.05 (-) 0.00e0



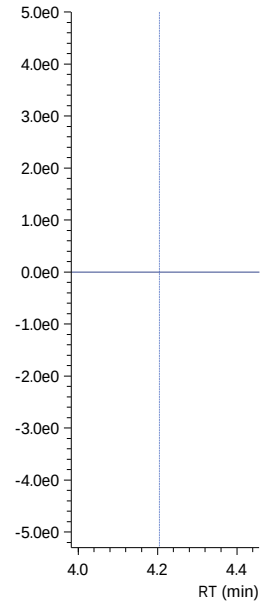
R1 327.00>81.10 (-) 0.00e0



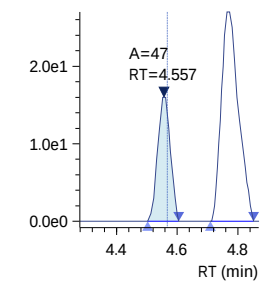
4_2-FTS-13C
Conc ----
Q 328.80>309.05 (-) 0.00e0



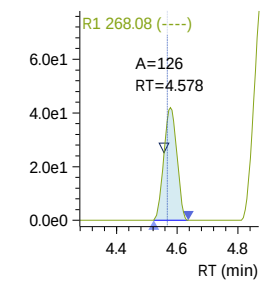
4_2-FTS-13C_IS
Conc ----
ISTD 328.80>309.05 (-) 0.00e0



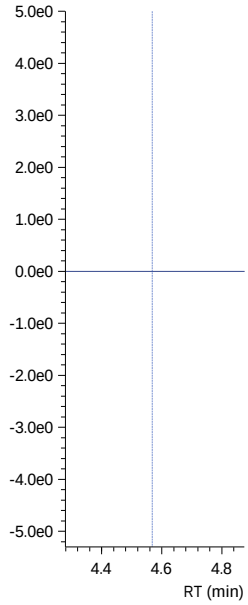
6_2-FTS_1
Conc 0.0000
R#1 268.08 (37.36)
Q 427.00>407.00 (-) 2.70e1



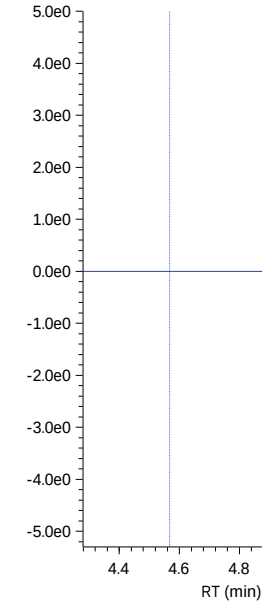
R1 427.00>80.90 (-) 7.80e1



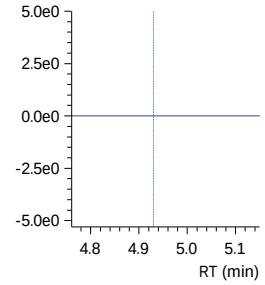
6_2-FTS-13C
Conc ----
Q 428.90>409.00 (-) 0.00e0



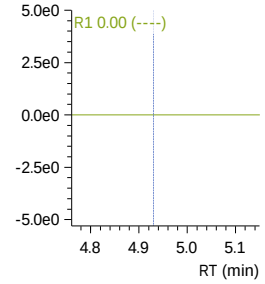
6_2-FTS-13C_IS
Conc ----
ISTD 428.90>409.00 (-) 0.00e0



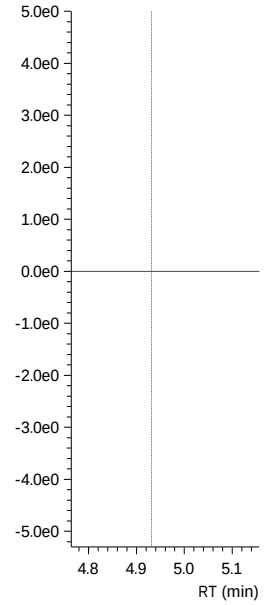
8_2-FTS_1
Conc ----
R#1 0.00 (10.63)
Q 527.10>506.90 (-) 0.00e0



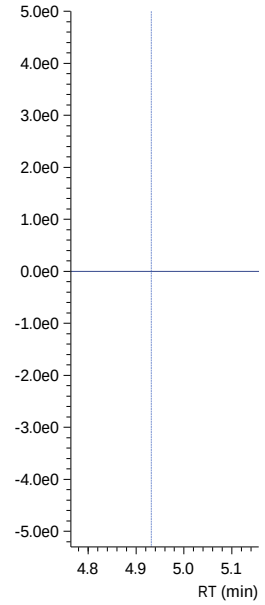
R1 527.20>487.00 (-) 0.00e0



8_2-FTS-13C
Conc ----
Q 528.80>509.00 (-) 0.00e0

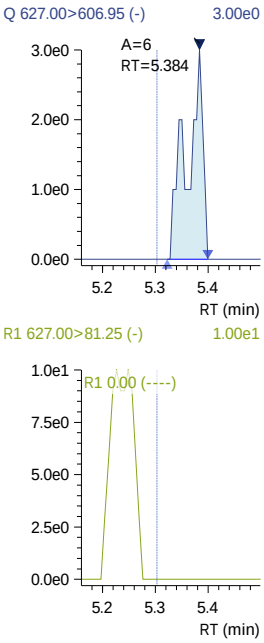


8_2-FTS-13C_IS
Conc ----
ISTD 528.80>509.00 (-) 0.00e0

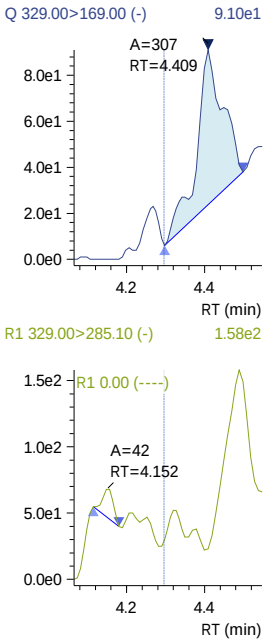


210909_019 (continued)

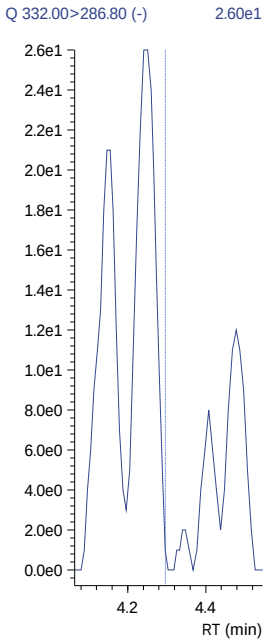
10_2-FtS_1
Conc 0.0000
R#1 0.00 (21.61)



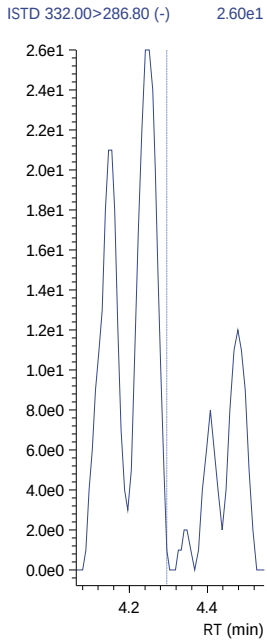
HPFO_DA
Conc 0.0000
R#1 0.00 (106.46)



HFPO_DA-13C
Conc ----



HFPO_DA-13C_IS
Conc ----



210823_B3

ALS Environmental

Injection Log

LCMS06 -Shimadzu 8050

ICAL Date: 8/19/2021

Std. xp: 12/12/21 (ICV xp 9/30/21; TPFOA xp 2/17/22)

ICAL ID: KC2100446

LIMS ID: 736760

teview: U. Amadioha

Review:

mn: Phenomenex EVO-C18 100X4.6 mm S/N: H21-242279

ile Phases **A:** 5mM Ammonium Acetate in H2O 21-OLC-02-02L **B:** 5mM Ammonium Acetate in MeOH 21-OLC-02-10I

Sample Name		File Name	Acquisition Method	Dilution	R	
PFC CCV @ 1.0ppb	21-OLC-02-11E	210823_007	PFAS_updated_210724_30_AREAS_LCMS06.lcm	1x	☒	
CCB	21-OLC-02-11I	210823_008	PFAS_updated_210724_30_AREAS_LCMS06.lcm	1x	☒	
KQ2115525-04	MB	210823_017	PFAS_updated_210724_30_AREAS_LCMS06.lcm	1x	☒	
KQ2115525-03	LCS	210823_018	PFAS_updated_210724_30_AREAS_LCMS06.lcm	1x	☒	
K2109002-021		210823_019	PFAS_updated_210724_30_AREAS_LCMS06.lcm	1x	☒	
K2109099-001		210823_020	PFAS_updated_210724_30_AREAS_LCMS06.lcm	1x	☒	
K2109099-002		210823_021	PFAS_updated_210724_30_AREAS_LCMS06.lcm	1x	☒	RR to confirm high PFBS isotope with hit
K2109099-003		210823_022	PFAS_updated_210724_30_AREAS_LCMS06.lcm	1x	☒	RR to confirm high PFBS isotope with hit
K2109099-004		210823_023	PFAS_updated_210724_30_AREAS_LCMS06.lcm	1x	☒	RR to confirm high PFBS isotope with hit
K2109099-005		210823_024	PFAS_updated_210724_30_AREAS_LCMS06.lcm	1x	☒	RR to confirm high PFBS isotope with hit
K2109099-006		210823_025	PFAS_updated_210724_30_AREAS_LCMS06.lcm	1x	☒	RR to confirm high PFBS, PFOS & PFBA isotope with hit
K2109102-001		210823_026	PFAS_updated_210724_30_AREAS_LCMS06.lcm	1x	☒	
K2109102-002		210823_027	PFAS_updated_210724_30_AREAS_LCMS06.lcm	1x	☒	
K2109102-003		210823_028	PFAS_updated_210724_30_AREAS_LCMS06.lcm	1x	☒	
K2109102-004		210823_029	PFAS_updated_210724_30_AREAS_LCMS06.lcm	1x	☒	
K2109102-005		210823_030	PFAS_updated_210724_30_AREAS_LCMS06.lcm	1x	☒	
K2109102-006		210823_031	PFAS_updated_210724_30_AREAS_LCMS06.lcm	1x	☒	
K2109142-001		210823_032	PFAS_updated_210724_30_AREAS_LCMS06.lcm	1x	☒	RR to confirm low PFTeDA isotopes
R2107978-006		210823_033	PFAS_updated_210724_30_AREAS_LCMS06.lcm	1x	☒	
R2107979-001		210823_034	PFAS_updated_210724_30_AREAS_LCMS06.lcm	1x	☒	
R2107979-002		210823_035	PFAS_updated_210724_30_AREAS_LCMS06.lcm	1x	☒	
R2107979-003		210823_036	PFAS_updated_210724_30_AREAS_LCMS06.lcm	1x	☒	
R2107979-004		210823_037	PFAS_updated_210724_30_AREAS_LCMS06.lcm	1x	☒	
KQ2115525-01	MS	210823_038	PFAS_updated_210724_30_AREAS_LCMS06.lcm	1x	☒	
KQ2115525-02	DMS	210823_039	PFAS_updated_210724_30_AREAS_LCMS06.lcm	1x	☒	
KQ2115935-03	MB	210823_044	PFAS_updated_210724_30_AREAS_LCMS06.lcm	1x	☒	
KQ2115935-02	LCS	210823_045	PFAS_updated_210724_30_AREAS_LCMS06.lcm	1x	☒	
K2108836-045		210823_046	PFAS_updated_210724_30_AREAS_LCMS06.lcm	1x	☒	DL for PFOS & 6:2-FTS
KQ2115935-01	K2108836-045DUP	210823_047	PFAS_updated_210724_30_AREAS_LCMS06.lcm	1x	☒	DL for PFOS & 6:2-FTS
K2108836-046		210823_048	PFAS_updated_210724_30_AREAS_LCMS06.lcm	1x	☒	
K2108836-047		210823_049	PFAS_updated_210724_30_AREAS_LCMS06.lcm	1x	☒	
K2108836-048		210823_050	PFAS_updated_210724_30_AREAS_LCMS06.lcm	1x	☒	
K2108836-049		210823_051	PFAS_updated_210724_30_AREAS_LCMS06.lcm	1x	☒	
K2108836-050		210823_052	PFAS_updated_210724_30_AREAS_LCMS06.lcm	1x	☒	
K2108836-051		210823_053	PFAS_updated_210724_30_AREAS_LCMS06.lcm	1x	☒	
K2108836-052	K2108836-051DUP	210823_054	PFAS_updated_210724_30_AREAS_LCMS06.lcm	1x	☒	
K2108836-053		210823_055	PFAS_updated_210724_30_AREAS_LCMS06.lcm	1x	☒	
K2108836-054		210823_056	PFAS_updated_210724_30_AREAS_LCMS06.lcm	1x	☒	
K2108836-055		210823_057	PFAS_updated_210724_30_AREAS_LCMS06.lcm	1x	☒	
K2108836-056		210823_058	PFAS_updated_210724_30_AREAS_LCMS06.lcm	1x	☒	
K2108836-057		210823_059	PFAS_updated_210724_30_AREAS_LCMS06.lcm	1x	☒	
K2108836-058		210823_060	PFAS_updated_210724_30_AREAS_LCMS06.lcm	1x	☒	
K2108836-059		210823_061	PFAS_updated_210724_30_AREAS_LCMS06.lcm	1x	☒	
K2108836-060		210823_062	PFAS_updated_210724_30_AREAS_LCMS06.lcm	1x	☒	
K2108836-061		210823_063	PFAS_updated_210724_30_AREAS_LCMS06.lcm	1x	☒	
K2108836-062		210823_064	PFAS_updated_210724_30_AREAS_LCMS06.lcm	1x	☒	
K2108836-063	K2108836-062DUP	210823_065	PFAS_updated_210724_30_AREAS_LCMS06.lcm	1x	☒	
K2108836-064		210823_066	PFAS_updated_210724_30_AREAS_LCMS06.lcm	1x	☒	

210828_B1

ALS Environmental

		ICAL Date:	8/19/2021
		Std. xp:	12/12/21 (ICV xp 9/30/21; TPFOA xp 2/17/22)
leview:	U. Amadioha	ICAL ID:	KC2100446
Review:		LIMS ID:	736808

Injection Log

LCMS06 -Shimadzu 8050

mn: Phenomenex EVO-C18 100X4.6 mm S/N: H21-242279

ile Phases A: 5mM Ammonium Acetate in H2O 21-OLC-02-18D B: 5mM Ammonium Acetate In MeOH 21-OLC-02-18G

Sample Name		File Name	Acquisition Method	Dilution	R	
PFC CCV @ 1.0ppb	21-OLC-02-11E	210828_007	PFAS_updated_210724_30_AREAS_LCMS06.lcm	1x	☒	
CCB	21-OLC-02-11I	210828_008	PFAS_updated_210724_30_AREAS_LCMS06.lcm	1x	☒	
K2109099-005		210828_012	PFAS_updated_210724_30_AREAS_LCMS06.lcm	1x	☒	Report this run
K2109099-006		210828_013	PFAS_updated_210724_30_AREAS_LCMS06.lcm	1x	☒	Report this run
K2109142-001		210828_014	PFAS_updated_210724_30_AREAS_LCMS06.lcm	1x	☒	Confirms low PFTeDA
KQ2116489-03	MB	210828_015	PFAS_updated_210724_30_AREAS_LCMS06.lcm	1x	☒	
KQ2116489-02	LCS	210828_016	PFAS_updated_210724_30_AREAS_LCMS06.lcm	1x	☒	
K2108073-022	RX	210828_017	PFAS_updated_210724_30_AREAS_LCMS06.lcm	1x	☒	Report PFPeS & PFBS
KQ2116489-01	K2108073-022DUP	210828_018	PFAS_updated_210724_30_AREAS_LCMS06.lcm	1x	☒	Report PFPeS & PFBS
K2108073-043	RX	210828_019	PFAS_updated_210724_30_AREAS_LCMS06.lcm	1x	☒	Report PFPeS & PFBS
K2108073-044	RX	210828_020	PFAS_updated_210724_30_AREAS_LCMS06.lcm	1x	☒	Report PFPeS & PFBS
K2108836-021	RX	210828_021	PFAS_updated_210724_30_AREAS_LCMS06.lcm	1x	☒	Report PFPeS & PFBS
K2108836-022	RX	210828_022	PFAS_updated_210724_30_AREAS_LCMS06.lcm	1x	☒	Report PFPeS & PFBS
K2108836-043	RX	210828_023	PFAS_updated_210724_30_AREAS_LCMS06.lcm	1x	☒	Report PFPeS & PFBS
K2108836-044	RX	210828_024	PFAS_updated_210724_30_AREAS_LCMS06.lcm	1x	☒	Report PFPeS & PFBS

210914_B1

ALS Environmental

Injection Log

LCMS06 -Shimadzu 8050

ICAL Date: 9/9/2021

Std. xp: 12/12/21 (ICV xp 9/30/21; TPFOA xp 2/17/22)

ICAL ID: KC2100481

LIMS ID: 738712

teview: U. Amadioha

Review: [signature]

mn: Phenomenex EVO-C18 100X4.6 mm S/N: H21-242279

ile Phases A: 5mM Ammonium Acetate in H2O 21-OLC-02-21I B: 5mM Ammonium Acetate In MeOH 21-OLC-02-21K

Sample Name		File Name	Acquisition Method	Dilution	R	
PFC CCV @ 1.0ppb	21-OLC-02-24E	210914_015	PFAS_updated_210724_30_AREAS_LCMS06.lcm	1x	☒	
CCB	21-OLC-02-11I	210914_016	PFAS_updated_210724_30_AREAS_LCMS06.lcm	1x	☒	
KQ2115544-04	MB	210914_017	PFAS_updated_210724_30_AREAS_LCMS06.lcm	1x	☒	
KQ2115544-05	LCS	210914_018	PFAS_updated_210724_30_AREAS_LCMS06.lcm	1x	☒	
KQ2115544-06	DLCS	210914_019	PFAS_updated_210724_30_AREAS_LCMS06.lcm	1x	☒	
KQ2115544-07	MDL1	210914_020	PFAS_updated_210724_30_AREAS_LCMS06.lcm	1x	☒	
KQ2115544-08	MDL2	210914_021	PFAS_updated_210724_30_AREAS_LCMS06.lcm	1x	☒	
K2109142-002		210914_022	PFAS_updated_210724_30_AREAS_LCMS06.lcm	1x	☒	Low 13C8-FOSA, D3-MeFOSA, D5-EtFOSA, D7-MeFOSA confirmed with MS-DMS
KQ2115544-01	MS	210914_023	PFAS_updated_210724_30_AREAS_LCMS06.lcm	1x	☒	Confirms Low 13C8-FOSA, D3-MeFOSA, D5-EtFOSA, D7-MeFOSA in parent sample
KQ2115544-02	DMS	210914_024	PFAS_updated_210724_30_AREAS_LCMS06.lcm	1x	☒	Confirms Low 13C8-FOSA, D3-MeFOSA, D5-EtFOSA, D7-MeFOSA in parent sample

210831_B2

ALS Environmental

		ICAL Date:	8/19/2021
		Std. xp:	12/12/21 (ICV xp 9/30/21; TPFOA xp 2/17/22)
teview:	U. Amadioha	ICAL ID:	KC2100446
Review:		LIMS ID:	737225

Injection Log

LCMS06 -Shimadzu 8050

mn: Phenomenex EVO-C18 100X4.6 mm S/N: H21-242279

ile Phases A: 5mM Ammonium Acetate in H2O 21-OLC-02-18D B: 5mM Ammonium Acetate in MeOH 21-OLC-02-18G

Sample Name		File Name	Acquisition Method	Dilution	R	
PFC CCV @ 1.0ppb	21-OLC-02-11E	210831_028	PFAS_updated_210724_30_AREAS_LCMS06.lcm	1x	☒	
CCB	21-OLC-02-11I	210831_029	PFAS_updated_210724_30_AREAS_LCMS06.lcm	1x	☒	
KQ2116572-04	MB	210831_030	PFAS_updated_210724_30_AREAS_LCMS06.lcm	1x	☒	
KQ2116572-03	LCS	210831_031	PFAS_updated_210724_30_AREAS_LCMS06.lcm	1x	☒	RR to confrim low PFPeS recovery
K2109083-001		210831_032	PFAS_updated_210724_30_AREAS_LCMS06.lcm	1x	☒	
K2109083-002		210831_033	PFAS_updated_210724_30_AREAS_LCMS06.lcm	1x	☒	
KQ2116572-01	MS	210831_034	PFAS_updated_210724_30_AREAS_LCMS06.lcm	1x	☒	
KQ2116572-02	DMS	210831_035	PFAS_updated_210724_30_AREAS_LCMS06.lcm	1x	☒	
K2109102-001		210831_036	PFAS_updated_210724_30_AREAS_LCMS06.lcm	1x	☒	report this run
K2109102-002		210831_037	PFAS_updated_210724_30_AREAS_LCMS06.lcm	1x	☒	report this run
K2109102-003		210831_038	PFAS_updated_210724_30_AREAS_LCMS06.lcm	1x	☒	report this run
K2109102-006		210831_039	PFAS_updated_210724_30_AREAS_LCMS06.lcm	1x	☒	report this run

Analysis: PFC	IS/Lot/Exp.: 21-OLC-02-12B exp: 2/9/22		Filter lot: 200111103			Solvent/Lot: N.A.	
Pipette: Curie, Pascal			Envi-Carb: ———			Centrifuge: ———	
Sample ID	IS Amount	Sample Aliquot	Final Volume	Dilution Factor	Date	Analyst	Analyte for dilution
K2109102-001	10 uL	990 uL	1 mL	1X	8-31-21	BL	reanalyze for 13C3-PFBS high w/ hit
K2109102-002	10 uL	990 uL	1 mL	1X	"	"	reanalyze for 13C4-PFBA high w/ hit
K2109102-003	10 uL	990 uL	1 mL	1X	"	"	reanalyze for 13C4-PFBA high w/ hit
K2109102-006	10 uL	990 uL	1 mL	1X	↓	↓	reanalyze for 13C3-PFBS high w/ hit

Aaaamazing!

210827_B3

Injection Log

LCMS06 -Shimadzu 8050

ICAL Date: 8/19/2021

Std. xp: 12/12/21 (ICV xp 9/30/21; TPFOA xp 2/17/22)

ICAL ID: KC2100446

LIMS ID: 736807

leview: U. Amadioha

Review:

mn: Phenomenex EVO-C18 100X4.6 mm S/N: H21-242279

ile Phases A: 5mM Ammonium Acetate in H2O 21-OLC-02-18D B: 5mM Ammonium Acetate In MeOH 21-OLC-02-18G

Sample Name		File Name	Acquisition Method	Dilution	R	
PFC CCV @ 1.0ppb	21-OLC-02-11E	210827_109	PFAS_updated_210724_30_AREAS_LCMS06.lcm	1x	☒	
CCB	21-OLC-02-11I	210827_110	PFAS_updated_210724_30_AREAS_LCMS06.lcm	1x		Injection error
KQ2116108-01	MS	210827_111	PFAS_updated_210724_30_AREAS_LCMS06.lcm	1x	☒	NR
KQ2116108-02	DMS	210827_112	PFAS_updated_210724_30_AREAS_LCMS06.lcm	1x	☒	NR
R2108182-001		210827_113	PFAS_updated_210724_30_AREAS_LCMS06.lcm	1x	☒	Confirms low 13C2-PFUnDA, 13C2-PFDoDA, 13C2-PFTeDA, 13C8-FOSA, D3-MeFOSAA & D5-EtFOSAA
R2108182-003		210827_114	PFAS_updated_210724_30_AREAS_LCMS06.lcm	1x	☒	Confrims low 13C2-PFDoDA & 13C2-PFTeDA
R2108182-004		210827_115	PFAS_updated_210724_30_AREAS_LCMS06.lcm	1x	☒	Confrims low 13C2-PFTeDA
R2108182-005		210827_116	PFAS_updated_210724_30_AREAS_LCMS06.lcm	1x	☒	Confirms low 13C2-PFUnDA, 13C2-PFDoDA & 13C2-PFTeDA
R2108421-002		210827_117	PFAS_updated_210724_30_AREAS_LCMS06.lcm	1x	☒	Confrims low 13C2-PFTeDA
R2108421-005		210827_118	PFAS_updated_210724_30_AREAS_LCMS06.lcm	1x	☒	Confrims low 13C2-PFDoDA & 13C2-PFTeDA
R2108421-006		210827_119	PFAS_updated_210724_30_AREAS_LCMS06.lcm	1x	☒	Confrims low 13C2-PFTeDA
PFC CCV @ 1.0ppb	21-OLC-02-11E	210827_120	PFAS_updated_210724_30_AREAS_LCMS06.lcm	1x	☒	
CCB	21-OLC-02-11I	210827_121	PFAS_updated_210724_30_AREAS_LCMS06.lcm	1x		Injection error
K2109099-002		210827_122	PFAS_updated_210724_30_AREAS_LCMS06.lcm	1x	☒	Report PFBS
K2109099-003		210827_123	PFAS_updated_210724_30_AREAS_LCMS06.lcm	1x	☒	Report PFBS
K2109099-004		210827_124	PFAS_updated_210724_30_AREAS_LCMS06.lcm	1x	☒	Report PFBS
K2109099-005		210827_125	PFAS_updated_210724_30_AREAS_LCMS06.lcm	1x		Injection error
K2109099-006		210827_126	PFAS_updated_210724_30_AREAS_LCMS06.lcm	1x		Injection error
K2109142-001		210827_127	PFAS_updated_210724_30_AREAS_LCMS06.lcm	1x		Injection error
KQ2116489-03	MB	210827_128	PFAS_updated_210724_30_AREAS_LCMS06.lcm	1x		Injection error
KQ2116489-02	LCS	210827_129	PFAS_updated_210724_30_AREAS_LCMS06.lcm	1x		Injection error
K2108073-022	RX	210827_130	PFAS_updated_210724_30_AREAS_LCMS06.lcm	1x		Injection error
KQ2116489-01	K2108073-022DUP	210827_131	PFAS_updated_210724_30_AREAS_LCMS06.lcm	1x		Injection error
K2108073-043	RX	210827_132	PFAS_updated_210724_30_AREAS_LCMS06.lcm	1x		Injection error
K2108073-044	RX	210827_133	PFAS_updated_210724_30_AREAS_LCMS06.lcm	1x		Injection error
K2108836-021	RX	210827_134	PFAS_updated_210724_30_AREAS_LCMS06.lcm	1x		Injection error
K2108836-022	RX	210827_135	PFAS_updated_210724_30_AREAS_LCMS06.lcm	1x		Injection error
K2108836-043	RX	210827_136	PFAS_updated_210724_30_AREAS_LCMS06.lcm	1x		Injection error
K2108836-044	RX	210827_137	PFAS_updated_210724_30_AREAS_LCMS06.lcm	1x		Injection error

J:\LCMS06\Data\210827_B3\inject log 210819_curve

Analysis: PFC	IS/Lot/Exp.: Exp: 2-9-22 21-OLC-02-12B		Filter lot: 210026103			Solvent/Lot:	
Pipette: Curie, Pascal			Envi-Carb:			Centrifuge:	
Sample ID	IS Amount	Sample Aliquot	Final Volume	Dilution Factor	Date	Analyst	Analyte for dilution
R2108182-001	10 uL	990 uL	1 mL	1X	8-27-21	UVA	RR to confirm low 13C2-PFUnDA, 13C2-PFDoDA, 13C2-PFTeDA, 13c8-FOSA, D3-MeFOSAA & D5-EtFOSAA
R2108182-003	10 uL	990 uL	1 mL	1X			RR to confirm low13C2-PFDoDA, & 13C2-PFTeDA
R2108182-004	10 uL	990 uL	1 mL	1X			RR to confirm low 13C2-PFTeDA
R2108182-005	10 uL	990 uL	1 mL	1X			RR to confirm low 13C2-PFDoDA & 13C2-PFTeDA
R2108421-002	10 uL	990 uL	1 mL	1X			RR to confrim low 13C2-PFTeDA
R2108421-005	10 uL	990 uL	1 mL	1X			RR to confirm low PFDoDA & 13C2-PFTeDA
R2108421-006	10 uL	990 uL	1 mL	1X			RR to confrim low 13C2-PFTeDA
K2109099-002	10 uL	990 uL	1 mL	1X			confirm high PFBS isotope w/ hit
K2109099-003	10 uL	990 uL	1 mL	1X			confirm high PFBS isotope w/ hit
K2109099-004	10 uL	990 uL	1 mL	1X			confirm high PFBS isotope w/ hit
K2109099-005	10 uL	990 uL	1 mL	1X			confirm high PFBS isotope w/ hit
K2109099-006	10 uL	990 uL	1 mL	1X			confirm high PFBS isotope w/ hit
K2109142-001	10 uL	990 uL	1 mL	1X		C	RR to confirm low PFTeDA isotopes

Subcontract Lab Results

ALS Environmental—Kelso Laboratory
1317 South 13th Avenue, Kelso, WA 98626
Phone (360)577-7222 Fax (360)636-1068
www.alsglobal.com

1435 Norjohn Court, Unit 1, Burlington, ON, Canada L7L 0E6

SVOC DATA PACKAGE

APPENDIX 1: INSTRUMENT OUTPUT DOCUMENTS

Including For Each Analytical Sequence::

- The scanned instrument runlogs

- Instrument output (SICP chromatograms) indicating the integrations used for quantification including:
  - GC chromatographic resolution checks, where appropriate
  - SICPs for the run
  - SICP chromatograms indicating both the automated and manual peak integrati where this has been edited

- Reference peak profiles indicating the mass resolution
  - Pre-run mass calibration check printouts
  - Post-run mass calibration check printouts

	File Name	Sample ID	File Text	MS File	Inlet File	Vial
1	7-210611A01	H7-21-CCV-0287	1613B-CS3+PERF-012	Dioxin_1613B	Dioxin_1613B	Tray1:1
2	7-210611A02	H7-21-CS2-0199	1613B-CS2-012	Dioxin_1613B	Dioxin_1613B	Tray1:4
3	7-210611A03	H7-21-CS1-0199	1613B-CS1-012	Dioxin_1613B	Dioxin_1613B	Tray1:5
4	7-210611A04	H7-21-CS0-0199	1613B-CS0-012	Dioxin_1613B	Dioxin_1613B	Tray1:6
5	7-210611A05	H7-21-LOD-0199	1613B-LOD-012	Dioxin_1613B	Dioxin_1613B	Tray1:7
6	7-210611A06	H7-21-CS5-0199	1613B-CS5-012	Dioxin_1613B	Dioxin_1613B	Tray1:8
7	7-210611A07	H7-21-CS4-0199	1613B-CS4-012	Dioxin_1613B	Dioxin_1613B	Tray1:9
8	7-210611A08	H7-21-RS1-0199	1613B-RS1-012	Dioxin_1613B	Dioxin_1613B	Tray1:10
9	---	---	Operator: NA	---	---	---
10	---	---	Detector: 380V	---	---	---
11	---	---	Column : DB5MS-US1221911H	---	---	---

Mass Res ✓
VP ✓
CS1 ✓
S:N ✓
RSD% ✓

	File Name	Sample ID	File Text	Sample Type	Na Conc Te	Na Conc Pe-Hp
1	7-210611A03	H7-21-CS1-0199	1613B-CS1-012	Standard	0.5	2.5
2	7-210611A02	H7-21-CS2-0199	1613B-CS2-012	Standard	2	10
3	7-210611A01	H7-21-CCV-0287	1613B-CS3+PERF-012	Standard	10	50
4	7-210611A07	H7-21-CS4-0199	1613B-CS4-012	Standard	40	200
5	7-210611A06	H7-21-CS5-0199	1613B-CS5-012	Standard	200	1000
6	7-210611A04	H7-21-CS0-0199	1613B-CS0-012	QC	0.1	0.5
7	7-210611A05	H7-21-LOD-0199	1613B-LOD-012	QC	.25	.25
8	7-210611A08	H7-21-RS1-0199	1613B-RS1-012	QC	10	50
9	---	---	Operator: NA	---	---	---
10	---	---	Detector: 380V	---	---	---
11	---	---	Column : DB5MS-US1221911H	---	---	---

Na Conc Oc	ES Conc Te-Hp	ES Conc Oc	Conc IS	Conc CS
5	100	200	100	0.5
20	100	200	100	2
100	100	200	100	10
400	100	200	100	40
2000	100	200	100	200
1	100	200	100	0.1
.5	100	200	100	.25
100	100	200	100	10
---	---	---	---	---
---	---	---	---	---
---	---	---	---	---

Quantify Sample Summary Report **MassLynx MassLynx V4.1 SCN 901**

Dataset: I:\Organics Instrument\HIGHRES GCMS Completed Results Files\HR-7\7-210611A-ICAL-1613.qld

Last Altered: Monday, June 14, 2021 09:35:05 Eastern Daylight Time
Printed: Thursday, June 17, 2021 12:13:23 Eastern Daylight Time

Method: C:\MassLynx\Dioxin.PRO\MethDB\Dioxin_1613B.mdb 08 Jun 2021 10:17:10
Calibration: C:\MassLynx\Dioxin.PRO\CurveDB\7-210611A-CAL5-1613.cdb 14 Jun 2021 09:35:05

Name: 7-210611A03, Date: 11-Jun-2021, Time: 13:54:08, ID: H7-21-CS1-0199, Description: 1613B-CS1-012, Vial: Tray1:5

	Target Analyte	#Hom	Total Area	Ion1 Area	Ion2 Area	Ra	Ra Fail=YES	RT	RRT	RT LCL	RT UCL	pg	%Rec	Mod.Comment	Noise 1	Noise 2
1	2378-TCDD		6020	2790	3230	0.86	NO	28.50	1.00	28.47	28.53	0.50134671	100.3		1788	1161
2	12378-PeCDD		17694	10810	6884	1.57	NO	32.32	1.00	32.28	32.35	2.3810383	95.2		1438	565
3	123478-HxCDD		17970	10403	7567	1.37	NO	34.31	1.00	34.28	34.35	2.4253928	97.0		1119	1089
4	123678-HxCDD		17731	9782	7950	1.23	NO	34.37	1.00	34.33	34.40	2.2885145	91.5		1119	1089
5	123789-HxCDD		17798	10389	7409	1.40	NO	34.49	1.00	34.46	34.53	2.4097661	96.4		1119	1089
6	1234678-HpCDD		16813	8366	8447	0.99	NO	35.98	1.00	35.95	36.02	2.5514853	102.1		1779	1599
7	OCDD		30234	14262	15972	0.89	NO	37.49	1.00	37.46	37.53	5.3040678	106.1		795	809
8	2378-TCDF		7541	3413	4127	0.83	NO	27.60	1.00	27.56	27.63	0.46927791	93.9	NA210614MB	828	1626
9	12378-PeCDF		30557	18213	12344	1.48	NO	31.41	1.00	31.38	31.44	2.3389709	93.6		921	990
10	23478-PeCDF		33590	20388	13203	1.54	NO	32.11	1.00	32.08	32.14	2.4110888	96.4		921	990
11	123478-HxCDF		30411	17112	13299	1.29	NO	33.84	1.00	33.80	33.87	2.2939288	91.8		2545	758
12	123678-HxCDF		35335	19848	15487	1.28	NO	33.90	1.00	33.87	33.93	2.5419838	101.7		2545	758
13	234678-HxCDF		31222	17872	13351	1.34	NO	34.23	1.00	34.19	34.26	2.3931672	95.7		2545	758
14	123789-HxCDF		28004	16253	11752	1.38	NO	34.64	1.00	34.61	34.67	2.5310883	101.2		2545	758
15	1234678-HpCDF		23098	15276	7822	1.95	NO	35.42	1.00	35.39	35.46	2.5256261	101.0		1376	750
16	1234789-HpCDF		19072	12206	6867	1.78	NO	36.24	1.00	36.21	36.28	2.5318045	101.3		1376	750
17	OCDF		36965	17286	19679	0.88	NO	37.59	1.00	37.56	37.63	4.6060120	92.1		758	1314
18	13C-2378-TCDD		1034226	451400	582826	0.77	NO	28.48	1.02	28.45	28.52	99.307847	99.3		4388	1893
19	13C-12378-PeCDD		749560	455234	294326	1.55	NO	32.31	1.16	32.27	32.34	100.26811	100.3		1759	1751
20	13C-123478-HxCDD		713597	398401	315196	1.26	NO	34.30	0.99	34.27	34.34	98.161687	98.2		2895	1726
21	13C-123678-HxCDD		756220	429662	326558	1.32	NO	34.35	1.00	34.32	34.39	99.305075	99.3		2895	1726
22	13C-1234678-HpCDD		633499	322667	310833	1.04	NO	35.98	1.04	35.95	36.02	112.34955	112.3		3411	3987
23	13C-OCDD		1065754	507277	558477	0.91	NO	37.49	1.09	37.46	37.53	277.77014	138.9		2886	3301
24	13C-2378-TCDF		1520861	662186	858676	0.77	NO	27.57	0.99	27.53	27.60	97.803174	97.8		5783	3221
25	13C-12378-PeCDF		1185272	727969	457302	1.59	NO	31.40	1.13	31.37	31.43	96.792737	96.8		2598	1858
26	13C-23478-PeCDF		1143198	701068	442130	1.59	NO	32.10	1.15	32.07	32.13	98.266064	98.3		2598	1858
27	13C-123478-HxCDF		997989	344150	653839	0.53	NO	33.82	0.98	33.79	33.86	97.344009	97.3		3594	2662
28	13C-123678-HxCDF		1067099	377206	689893	0.55	NO	33.90	0.98	33.87	33.93	94.580839	94.6		3594	2662
29	13C-234678-HxCDF		920303	315716	604587	0.52	NO	34.22	0.99	34.18	34.25	96.463596	96.5		3594	2662
30	13C-123789-HxCDF		849006	302458	546548	0.55	NO	34.64	1.00	34.61	34.67	98.659301	98.7		3594	2662
31	13C-1234678-HpCDF		851051	262673	588378	0.45	NO	35.41	1.03	35.38	35.45	108.34976	108.3		2406	6529
32	13C-1234789-HpCDF		680921	217530	463391	0.47	NO	36.23	1.05	36.20	36.27	114.66581	114.7		2406	6529
33	13C-1234-TCDD		885162	381416	503746	0.76	NO	27.80	0.00	27.77	27.83	111.32964	111.3		4388	1893
34	13C-123789-HxCDD		784495	440211	344284	1.28	NO	34.48	0.00	34.45	34.52	124.60707	124.6		2895	1726

Dataset: I:\Organics Instrument\HIGHRES GCMS Completed Results Files\HR-7\7-210611A-ICAL-1613.qld

Last Altered: Monday, June 14, 2021 09:35:05 Eastern Daylight Time
Printed: Thursday, June 17, 2021 12:13:23 Eastern Daylight Time

Name: 7-210611A03, Date: 11-Jun-2021, Time: 13:54:08, ID: H7-21-CS1-0199, Description: 1613B-CS1-012, Vial: Tray1:5

	Target Analyte	#Hom	Total Area	Ion1 Area	Ion2 Area	Ra	Ra Fail=YES	RT	RRT	RT LCL	RT UCL	pg	%Rec	Mod.Comment	Noise 1	Noise 2
35	37Cl-2378-TCDD		4892	4892				28.50	1.00	28.47	28.53	0.46084410	92.2		903	
36	Total-Tetradioxins	1		2790								0.50134671			1788	
37	Total-Pentadioxins	1		10810								2.3810383			1438	
38	Total-Hexadioxins	3		30574								7.1236735			1119	
39	Total-Heptadioxins	1		8366								2.5514853			1779	
40	Total-OCDD	1		14262								5.3040678			795	
41	Total-Tetrafurans	1		3413								0.46927791			828	
42	Total-PeCDF-F1			0											675	
43	Total-Pentafurans	2		38601								4.7500597			921	
44	Total-Hexafurans	4		71084								9.7601680			2545	
45	Total-Heptafurans	2		27482								5.0574306			1376	
46	Totals-OCDF	1		17286								4.6060120			758	
47	Totals-37Cl-2378-TCDD	4		5277								0.49706949			903	

Quantify Sample Summary Report **MassLynx MassLynx V4.1 SCN 901**

Dataset: I:\Organics Instrument\HIGHRES GCMS Completed Results Files\HR-7\7-210611A-ICAL-1613.qld

Last Altered: Monday, June 14, 2021 09:35:05 Eastern Daylight Time
Printed: Thursday, June 17, 2021 12:13:23 Eastern Daylight Time

Name: 7-210611A02, Date: 11-Jun-2021, Time: 13:13:45, ID: H7-21-CS2-0199, Description: 1613B-CS2-012, Vial: Tray1:4

	Target Analyte	#Hom	Total Area	Ion1 Area	Ion2 Area	Ra	Ra Fail=YES	RT	RRT	RT LCL	RT UCL	pg	%Rec	Mod.Comment	Noise 1	Noise 2
1	2378-TCDD		18948	8571	10377	0.83	NO	28.54	1.00	28.51	28.58	2.0299886	101.5		2040	1122
2	12378-PeCDD		52865	33177	19688	1.69	NO	32.33	1.00	32.30	32.36	9.6821195	96.8		1394	558
3	123478-HxCDD		53048	29201	23848	1.22	NO	34.32	1.00	34.29	34.36	10.618590	106.2		1437	1344
4	123678-HxCDD		50742	28306	22437	1.26	NO	34.38	1.00	34.34	34.41	10.045464	100.5		1437	1344
5	123789-HxCDD		50319	27339	22980	1.19	NO	34.50	1.00	34.47	34.54	10.278979	102.8		1437	1344
6	1234678-HpCDD		40303	20493	19810	1.03	NO	35.99	1.00	35.96	36.03	9.9165750	99.2		913	673
7	OCDD		50521	24130	26391	0.91	NO	37.50	1.00	37.47	37.54	19.786929	98.9		842	1143
8	2378-TCDF		25186	10003	15183	0.66	NO	27.64	1.00	27.61	27.67	2.0099014	100.5		848	1464
9	12378-PeCDF		98897	62184	36713	1.69	NO	31.43	1.00	31.40	31.46	9.9472138	99.5		1401	1321
10	23478-PeCDF		100476	61975	38501	1.61	NO	32.12	1.00	32.09	32.15	9.7091800	97.1		1401	1321
11	123478-HxCDF		88183	49001	39182	1.25	NO	33.85	1.00	33.81	33.88	9.8221211	98.2		1289	1462
12	123678-HxCDF		95710	54692	41018	1.33	NO	33.92	1.00	33.89	33.95	9.8179192	98.2		1289	1462
13	234678-HxCDF		87346	49152	38193	1.29	NO	34.24	1.00	34.20	34.27	9.9588719	99.6		1289	1462
14	123789-HxCDF		73129	40371	32758	1.23	NO	34.65	1.00	34.62	34.69	9.6768758	96.8		1289	1462
15	1234678-HpCDF		56579	38423	18156	2.12	NO	35.44	1.00	35.40	35.47	10.044841	100.4		1989	1376
16	1234789-HpCDF		44802	28671	16132	1.78	NO	36.26	1.00	36.22	36.29	10.152282	101.5		1989	1376
17	OCDF		70722	34015	36707	0.93	NO	37.60	1.00	37.57	37.63	19.673175	98.4		1635	1431
18	13C-2378-TCDD		803932	352342	451590	0.78	NO	28.53	1.02	28.49	28.56	95.648379	95.6		3114	1949
19	13C-12378-PeCDD		550752	333884	216868	1.54	NO	32.32	1.16	32.28	32.35	91.285736	91.3		1518	1393
20	13C-123478-HxCDD		481173	269199	211974	1.27	NO	34.32	1.00	34.29	34.36	98.532118	98.5		2592	2517
21	13C-123678-HxCDD		493019	275867	217153	1.27	NO	34.37	1.00	34.33	34.40	96.377319	96.4		2592	2517
22	13C-1234678-HpCDD		390710	200212	190499	1.05	NO	35.99	1.04	35.96	36.03	103.14967	103.1		2267	1692
23	13C-OCDD		477388	226394	250994	0.90	NO	37.50	1.09	37.47	37.54	185.21992	92.6		1776	1709
24	13C-2378-TCDF		1186058	518009	668049	0.78	NO	27.61	0.99	27.58	27.64	94.505996	94.5		5666	3255
25	13C-12378-PeCDF		902007	555780	346227	1.61	NO	31.42	1.13	31.39	31.45	91.269276	91.3		1790	1960
26	13C-23478-PeCDF		849183	519150	330034	1.57	NO	32.11	1.15	32.08	32.14	90.442707	90.4		1790	1960
27	13C-123478-HxCDF		675863	234837	441026	0.53	NO	33.84	0.98	33.80	33.87	98.136365	98.1		3242	5190
28	13C-123678-HxCDF		748357	261963	486395	0.54	NO	33.91	0.98	33.88	33.94	98.740464	98.7		3242	5190
29	13C-234678-HxCDF		618684	217865	400819	0.54	NO	34.23	0.99	34.19	34.26	96.535912	96.5		3242	5190
30	13C-123789-HxCDF		579893	201872	378021	0.53	NO	34.64	1.00	34.61	34.67	100.31428	100.3		3242	5190
31	13C-1234678-HpCDF		524153	161229	362924	0.44	NO	35.42	1.03	35.39	35.46	99.338611	99.3		2263	7004
32	13C-1234789-HpCDF		398894	124949	273945	0.46	NO	36.24	1.05	36.21	36.28	99.996022	100.0		2263	7004
33	13C-1234-TCDD		714386	313781	400604	0.78	NO	27.84	0.00	27.81	27.88	89.850546	89.9		3114	1949
34	13C-123789-HxCDD		526990	293783	233207	1.26	NO	34.49	0.00	34.46	34.53	83.705686	83.7		2592	2517
35	37Cl-2378-TCDD		17295	17295				28.54	1.00	28.51	28.58	2.0186184	100.9		826	
36	Total-Tetradioxins	1		8571								2.0299886			2040	
37	Total-Pentadioxins	1		33177								9.6821195			1394	

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Last Altered: Monday, June 14, 2021 09:35:05 Eastern Daylight Time
Printed: Thursday, June 17, 2021 12:13:23 Eastern Daylight Time

Name: 7-210611A02, Date: 11-Jun-2021, Time: 13:13:45, ID: H7-21-CS2-0199, Description: 1613B-CS2-012, Vial: Tray1:4

	Target Analyte	#Hom	Total Area	Ion1 Area	Ion2 Area	Ra	Ra Fail=YES	RT	RRT	RT LCL	RT UCL	pg	%Rec	Mod.Comment	Noise 1	Noise 2
38	Total-Hexadioxins	3		84845								30.943033			1437	
39	Total-Heptadioxins	1		20493								9.9165750			913	
40	Total-OCDD	1		24130								19.786929			842	
41	Total-Tetrafurans	2		10156								2.0370318			848	
42	Total-PeCDF-F1			0											602	
43	Total-Pentafurans	3		124494								19.709315			1401	
44	Total-Hexafurans	5		193642								39.362977			1289	
45	Total-Heptafurans	2		67094								20.197123			1989	
46	Totals-OCDF	1		34015								19.673175			1635	
47	Totals-37Cl-2378-TCDD	4		17709								2.0669197			826	

Quantify Sample Summary Report **MassLynx MassLynx V4.1 SCN 901**

Dataset: I:\Organics Instrument\HIGHRES GCMS Completed Results Files\HR-7\7-210611A-ICAL-1613.qld

Last Altered: Monday, June 14, 2021 09:35:05 Eastern Daylight Time
Printed: Thursday, June 17, 2021 12:13:23 Eastern Daylight Time

Name: 7-210611A01, Date: 11-Jun-2021, Time: 12:07:42, ID: H7-21-CCV-0287, Description: 1613B-CS3+PERF-012, Vial: Tray1:1

	Target Analyte	#Hom	Total Area	Ion1 Area	Ion2 Area	Ra	Ra Fail=YES	RT	RRT	RT LCL	RT UCL	pg	%Rec	Mod.Comment	Noise 1	Noise 2
1	2378-TCDD		146279	64594	81685	0.79	NO	28.54	1.00	28.51	28.58	9.6813160	96.8		2382	1288
2	12378-PeCDD		454849	281224	173625	1.62	NO	32.33	1.00	32.30	32.36	49.421125	98.8		1545	2216
3	123478-HxCDD		395249	232036	163213	1.42	NO	34.32	1.00	34.29	34.36	47.774904	95.5		2438	2693
4	123678-HxCDD		397645	210977	186667	1.13	NO	34.38	1.00	34.34	34.41	50.019032	100.0		2438	2693
5	123789-HxCDD		392988	218208	174780	1.25	NO	34.50	1.00	34.47	34.54	49.724965	99.4		2438	2693
6	1234678-HpCDD		283487	144963	138524	1.05	NO	35.99	1.00	35.96	36.03	50.378625	100.8		2803	2614
7	OCDD		350355	167010	183345	0.91	NO	37.51	1.00	37.48	37.54	98.259358	98.3		2381	1424
8	2378-TCDF		212507	95476	117031	0.82	NO	27.63	1.00	27.59	27.66	10.098762	101.0		1150	2721
9	12378-PeCDF		886879	546193	340687	1.60	NO	31.43	1.00	31.40	31.46	49.593395	99.2		2369	3133
10	23478-PeCDF		897816	552429	345386	1.60	NO	32.12	1.00	32.09	32.15	51.046866	102.1		2369	3133
11	123478-HxCDF		760821	425930	334892	1.27	NO	33.85	1.00	33.81	33.88	50.232840	100.5		5520	7855
12	123678-HxCDF		750697	420352	330345	1.27	NO	33.91	1.00	33.88	33.94	48.326583	96.7		5520	7855
13	234678-HxCDF		758581	421852	336729	1.25	NO	34.24	1.00	34.20	34.27	49.631977	99.3		5520	7855
14	123789-HxCDF		577247	324496	252751	1.28	NO	34.65	1.00	34.62	34.69	48.989963	98.0		5520	7855
15	1234678-HpCDF		422607	278321	144286	1.93	NO	35.44	1.00	35.40	35.47	48.965894	97.9		2928	2632
16	1234789-HpCDF		314696	207820	106876	1.94	NO	36.26	1.00	36.22	36.29	47.930505	95.9		2928	2632
17	OCDF		480301	231658	248643	0.93	NO	37.60	1.00	37.57	37.63	95.674112	95.7		1527	3276
18	13C-2378-TCDD		1301342	562177	739165	0.76	NO	28.51	1.02	28.48	28.55	99.703898	99.7		3808	2421
19	13C-12378-PeCDD		928347	560894	367453	1.53	NO	32.32	1.16	32.28	32.35	99.087598	99.1		2643	1888
20	13C-123478-HxCDD		796835	446250	350585	1.27	NO	34.31	0.99	34.28	34.35	105.19369	105.2		2611	3122
21	13C-123678-HxCDD		775933	435194	340739	1.28	NO	34.37	1.00	34.33	34.40	97.786627	97.8		2611	3122
22	13C-1234678-HpCDD		540966	279404	261562	1.07	NO	35.99	1.04	35.96	36.03	92.071945	92.1		3360	2104
23	13C-OCDD		666668	314535	352133	0.89	NO	37.50	1.09	37.47	37.54	166.75168	83.4		2815	1433
24	13C-2378-TCDF		1991695	878268	1113428	0.79	NO	27.61	0.99	27.58	27.64	102.19714	102.2		6384	3627
25	13C-12378-PeCDF		1622438	998914	623524	1.60	NO	31.42	1.13	31.39	31.45	105.71714	105.7		2830	2209
26	13C-23478-PeCDF		1443244	891857	551387	1.62	NO	32.11	1.15	32.08	32.14	98.986100	99.0		2830	2209
27	13C-123478-HxCDF		1140188	396586	743602	0.53	NO	33.84	0.98	33.80	33.87	106.73134	106.7		3655	4707
28	13C-123678-HxCDF		1192476	425062	767414	0.55	NO	33.90	0.98	33.87	33.93	101.43326	101.4		3655	4707
29	13C-234678-HxCDF		1078145	380505	697639	0.55	NO	34.23	0.99	34.19	34.26	108.45310	108.5		3655	4707
30	13C-123789-HxCDF		904160	318061	586099	0.54	NO	34.64	1.00	34.61	34.67	100.83352	100.8		3655	4707
31	13C-1234678-HpCDF		803137	250949	552188	0.45	NO	35.42	1.03	35.39	35.46	98.128369	98.1		3036	2733
32	13C-1234789-HpCDF		593472	181973	411500	0.44	NO	36.24	1.05	36.21	36.28	95.911395	95.9		3036	2733
33	13C-1234-TCDD		1109354	486991	622363	0.78	NO	27.83	0.00	27.80	27.86	139.52700	139.5		3808	2421
34	13C-123789-HxCDD		817443	451177	366266	1.23	NO	34.49	0.00	34.46	34.53	129.84057	129.8		2611	3122
35	37Cl-2378-TCDD		128578	128578				28.54	1.00	28.51	28.58	9.6640474	96.6		927	
36	Total-Tetradioxins	8		296096								44.546050			2382	
37	Total-Pentadioxins	3		871753								153.61773			1545	

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Last Altered: Monday, June 14, 2021 09:35:05 Eastern Daylight Time
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Name: 7-210611A01, Date: 11-Jun-2021, Time: 12:07:42, ID: H7-21-CCV-0287, Description: 1613B-CS3+PERF-012, Vial: Tray1:1

	Target Analyte	#Hom	Total Area	Ion1 Area	Ion2 Area	Ra	Ra Fail=YES	RT	RRT	RT LCL	RT UCL	pg	%Rec	Mod.Comment	Noise 1	Noise 2
38	Total-Hexadioxins	4		902527								201.26427			2438	
39	Total-Heptadioxins	2		289878								100.10766			2803	
40	Total-OCDD	2		167497								98.553470			2381	
41	Total-Tetrafurans	6		471075								51.275342			1150	
42	Total-PeCDF-F1	1		517498								54.999240			748	
43	Total-Pentafurans	5		1578184								144.43482			2369	
44	Total-Hexafurans	6		1767709								218.83531			5520	
45	Total-Heptafurans	2		486141								96.896399			2928	
46	Totals-OCDF	1		231658								95.674112			1527	
47	Totals-37Cl-2378-TCDD	10		130892								9.8379840			927	

Quantify Sample Summary Report **MassLynx MassLynx V4.1 SCN 901**

Dataset: I:\Organics Instrument\HIGHRES GCMS Completed Results Files\HR-7\7-210611A-ICAL-1613.qld

Last Altered: Monday, June 14, 2021 09:35:05 Eastern Daylight Time
Printed: Thursday, June 17, 2021 12:13:23 Eastern Daylight Time

Name: 7-210611A07, Date: 11-Jun-2021, Time: 16:48:17, ID: H7-21-CS4-0199, Description: 1613B-CS4-012, Vial: Tray1:9

	Target Analyte	#Hom	Total Area	Ion1 Area	Ion2 Area	Ra	Ra Fail=YES	RT	RRT	RT LCL	RT UCL	pg	%Rec	Mod.Comment	Noise 1	Noise 2
1	2378-TCDD		358813	158117	200696	0.79	NO	28.51	1.00	28.48	28.55	40.161883	100.4		1480	1211
2	12378-PeCDD		1146537	711413	435124	1.63	NO	32.32	1.00	32.28	32.35	211.45293	105.7		766	961
3	123478-HxCDD		967785	537141	430644	1.25	NO	34.31	1.00	34.28	34.35	215.49717	107.7		3991	2158
4	123678-HxCDD		1044493	587283	457210	1.28	NO	34.37	1.00	34.33	34.40	199.30511	99.7		3991	2158
5	123789-HxCDD		980962	546106	434857	1.26	NO	34.49	1.00	34.46	34.53	206.78275	103.4		3991	2158
6	1234678-HpCDD		714885	370825	344060	1.08	NO	35.99	1.00	35.96	36.03	201.54183	100.8		2675	1701
7	OCDD		870284	411445	458840	0.90	NO	37.50	1.00	37.47	37.54	406.60238	101.7		2771	3940
8	2378-TCDF		501256	220290	280966	0.78	NO	27.60	1.00	27.56	27.63	41.068294	102.7		1064	2035
9	12378-PeCDF		2031754	1248304	783451	1.59	NO	31.41	1.00	31.38	31.44	208.23144	104.1		5750	4032
10	23478-PeCDF		2194391	1345037	849354	1.58	NO	32.11	1.00	32.08	32.14	206.32765	103.2		5750	4032
11	123478-HxCDF		1801012	1001303	799709	1.25	NO	33.84	1.00	33.80	33.87	209.14836	104.6		4619	4636
12	123678-HxCDF		2007369	1137369	869999	1.31	NO	33.91	1.00	33.88	33.94	205.64902	102.8		4619	4636
13	234678-HxCDF		1785448	987319	798129	1.24	NO	34.23	1.00	34.19	34.26	207.56734	103.8		4619	4636
14	123789-HxCDF		1486961	841294	645667	1.30	NO	34.65	1.00	34.62	34.69	206.36663	103.2		4619	4636
15	1234678-HpCDF		1072276	699091	373185	1.87	NO	35.42	1.00	35.39	35.46	204.33367	102.2		11103	2950
16	1234789-HpCDF		808880	525097	283783	1.85	NO	36.24	1.00	36.21	36.28	209.53965	104.8		11103	2950
17	OCDF		1348843	634017	714825	0.89	NO	37.59	1.00	37.56	37.63	447.59531	111.9		5557	4564
18	13C-2378-TCDD		769482	338514	430968	0.79	NO	28.50	1.03	28.47	28.53	100.18259	100.2		2608	1620
19	13C-12378-PeCDD		546927	329342	217585	1.51	NO	32.31	1.16	32.27	32.34	99.200072	99.2		2115	984
20	13C-123478-HxCDD		432549	243547	189001	1.29	NO	34.31	0.99	34.28	34.35	91.364304	91.4		3449	3922
21	13C-123678-HxCDD		511507	285409	226098	1.26	NO	34.37	1.00	34.33	34.40	103.14009	103.1		3449	3922
22	13C-1234678-HpCDD		341000	176520	164480	1.07	NO	35.98	1.04	35.95	36.02	92.860712	92.9		3998	3715
23	13C-OCDD		400190	189320	210870	0.90	NO	37.49	1.09	37.46	37.53	160.15749	80.1		1931	3383
24	13C-2378-TCDF		1155237	506169	649068	0.78	NO	27.58	0.99	27.55	27.62	100.73033	100.7		4839	2629
25	13C-12378-PeCDF		885222	545049	340173	1.60	NO	31.40	1.13	31.37	31.43	98.017307	98.0		3655	1549
26	13C-23478-PeCDF		872726	537609	335118	1.60	NO	32.10	1.15	32.07	32.13	101.71522	101.7		3655	1549
27	13C-123478-HxCDF		648251	231695	416557	0.56	NO	33.82	0.98	33.79	33.86	97.091156	97.1		2606	3441
28	13C-123678-HxCDF		749327	258497	490830	0.53	NO	33.90	0.98	33.87	33.93	101.98184	102.0		2606	3441
29	13C-234678-HxCDF		606771	211821	394950	0.54	NO	34.22	0.99	34.18	34.25	97.658581	97.7		2606	3441
30	13C-123789-HxCDF		552905	197266	355640	0.55	NO	34.64	1.00	34.61	34.67	98.657703	98.7		2606	3441
31	13C-1234678-HpCDF		488330	151075	337254	0.45	NO	35.41	1.03	35.38	35.45	95.463738	95.5		3270	9204
32	13C-1234789-HpCDF		348931	111827	237105	0.47	NO	36.23	1.05	36.20	36.27	90.225667	90.2		3270	9204
33	13C-1234-TCDD		652825	285331	367495	0.78	NO	27.80	0.00	27.77	27.83	82.107917	82.1		2608	1620
34	13C-123789-HxCDD		510901	277725	233177	1.19	NO	34.49	0.00	34.46	34.53	81.150258	81.2		3449	3922
35	37Cl-2378-TCDD		316155	316155				28.51	1.00	28.48	28.55	40.379997	100.9		1104	
36	Total-Tetradioxins	1		158117								40.161883			1480	
37	Total-Pentadioxins	4		714214								212.29369			766	

Quantify Sample Summary Report **MassLynx MassLynx V4.1 SCN 901**

Dataset: I:\Organics Instrument\HIGHRES GCMS Completed Results Files\HR-7\7-210611A-ICAL-1613.qld

Last Altered: Monday, June 14, 2021 09:35:05 Eastern Daylight Time
Printed: Thursday, June 17, 2021 12:13:23 Eastern Daylight Time

Name: 7-210611A07, Date: 11-Jun-2021, Time: 16:48:17, ID: H7-21-CS4-0199, Description: 1613B-CS4-012, Vial: Tray1:9

	Target Analyte	#Hom	Total Area	Ion1 Area	Ion2 Area	Ra	Ra Fail=YES	RT	RRT	RT LCL	RT UCL	pg	%Rec	Mod.Comment	Noise 1	Noise 2
38	Total-Hexadioxins	4		1671097								621.78912			3991	
39	Total-Heptadioxins	2		374580								203.62843			2675	
40	Total-OCDD	1		411445								406.60238			2771	
41	Total-Tetrafurans	4		224029								41.776362			1064	
42	Total-PeCDF-F1			0								0.00000000			1083	
43	Total-Pentafurans	5		2607903								416.84223			5750	
44	Total-Hexafurans	6		3970432								829.37601			4619	
45	Total-Heptafurans	3		1229464								415.47435			11103	
46	Totals-OCDF	1		634017								447.59531			5557	
47	Totals-37Cl-2378-TCDD	5		317114								40.502469			1104	

Quantify Sample Summary Report **MassLynx MassLynx V4.1 SCN 901**

Dataset: I:\Organics Instrument\HIGHRES GCMS Completed Results Files\HR-7\7-210611A-ICAL-1613.qld

Last Altered: Monday, June 14, 2021 09:35:05 Eastern Daylight Time
Printed: Thursday, June 17, 2021 12:13:23 Eastern Daylight Time

Name: 7-210611A06, Date: 11-Jun-2021, Time: 16:04:38, ID: H7-21-CS5-0199, Description: 1613B-CS5-012, Vial: Tray1:8

	Target Analyte	#Hom	Total Area	Ion1 Area	Ion2 Area	Ra	Ra Fail=YES	RT	RRT	RT LCL	RT UCL	pg	%Rec	Mod.Comment	Noise 1	Noise 2
1	2378-TCDD		1780973	783996	996977	0.79	NO	28.51	1.00	28.48	28.55	202.02672	101.0		1866	1322
2	12378-PeCDD		5850813	3614095	2236718	1.62	NO	32.32	1.00	32.28	32.35	1033.6856	103.4		1393	871
3	123478-HxCDD		4878624	2716943	2161681	1.26	NO	34.32	1.00	34.29	34.36	935.00001	93.5		3291	2560
4	123678-HxCDD		5658373	3158440	2499933	1.26	NO	34.38	1.00	34.34	34.41	1083.1416	108.3		3291	2560
5	123789-HxCDD		4984694	2768049	2216645	1.25	NO	34.50	1.00	34.47	34.54	979.78263	98.0		3291	2560
6	1234678-HpCDD		3677889	1911822	1766067	1.08	NO	35.99	1.00	35.96	36.03	972.46673	97.2		2932	5102
7	OCDD		5309187	2512587	2796600	0.90	NO	37.51	1.00	37.48	37.54	1901.4809	95.1		3203	5632
8	2378-TCDF		2434114	1072332	1361782	0.79	NO	27.61	1.00	27.58	27.64	203.98200	102.0		1555	2330
9	12378-PeCDF		10496617	6420038	4076579	1.57	NO	31.42	1.00	31.39	31.45	1036.6652	103.7		4479	3905
10	23478-PeCDF		11001310	6765077	4236233	1.60	NO	32.12	1.00	32.09	32.15	1012.0709	101.2		4479	3905
11	123478-HxCDF		9323475	5216865	4106610	1.27	NO	33.85	1.00	33.81	33.88	1049.8178	105.0		6640	3117
12	123678-HxCDF		9893786	5537609	4356177	1.27	NO	33.91	1.00	33.88	33.94	1006.6378	100.7		6640	3117
13	234678-HxCDF		8981251	5027709	3953542	1.27	NO	34.24	1.00	34.20	34.27	1016.3697	101.6		6640	3117
14	123789-HxCDF		7434916	4154792	3280124	1.27	NO	34.65	1.00	34.62	34.69	1008.2447	100.8		6640	3117
15	1234678-HpCDF		5311458	3478632	1832827	1.90	NO	35.42	1.00	35.39	35.46	984.27920	98.4		13013	10225
16	1234789-HpCDF		4075958	2674537	1401422	1.91	NO	36.24	1.00	36.21	36.28	965.74163	96.6		13013	10225
17	OCDF		8014920	3839567	4175353	0.92	NO	37.60	1.00	37.57	37.63	2038.8189	101.9		6348	5876
18	13C-2378-TCDD		759264	327810	431453	0.76	NO	28.50	1.02	28.47	28.53	105.15729	105.2		2759	2343
19	13C-12378-PeCDD		570930	348621	222309	1.57	NO	32.31	1.16	32.27	32.34	110.15849	110.2		1974	1264
20	13C-123478-HxCDD		502555	282605	219949	1.28	NO	34.31	0.99	34.28	34.35	106.74820	106.7		2593	2019
21	13C-123678-HxCDD		509883	287033	222851	1.29	NO	34.37	1.00	34.33	34.40	103.39089	103.4		2593	2019
22	13C-1234678-HpCDD		363586	182508	181078	1.01	NO	35.98	1.04	35.95	36.02	99.568128	99.6		1924	2934
23	13C-OCDD		522048	244526	277523	0.88	NO	37.50	1.09	37.47	37.54	210.10077	105.1		1613	3282
24	13C-2378-TCDF		1129452	500672	628779	0.80	NO	27.58	0.99	27.55	27.62	104.76337	104.8		5566	3267
25	13C-12378-PeCDF		918625	561672	356953	1.57	NO	31.41	1.13	31.38	31.44	108.20354	108.2		1993	1826
26	13C-23478-PeCDF		891980	545703	346277	1.58	NO	32.11	1.15	32.08	32.14	110.58991	110.6		1993	1826
27	13C-123478-HxCDF		668568	233782	434786	0.54	NO	33.84	0.98	33.80	33.87	100.69712	100.7		3375	2864
28	13C-123678-HxCDF		754502	264859	489643	0.54	NO	33.90	0.98	33.87	33.93	103.26360	103.3		3375	2864
29	13C-234678-HxCDF		623336	221773	401563	0.55	NO	34.23	0.99	34.19	34.26	100.88881	100.9		3375	2864
30	13C-123789-HxCDF		565849	198811	367038	0.54	NO	34.64	1.00	34.61	34.67	101.53519	101.5		3375	2864
31	13C-1234678-HpCDF		502160	159832	342328	0.47	NO	35.42	1.03	35.39	35.46	98.719526	98.7		4058	6450
32	13C-1234789-HpCDF		381497	122231	259265	0.47	NO	36.24	1.05	36.21	36.28	99.201102	99.2		4058	6450
33	13C-1234-TCDD		613683	264275	349408	0.76	NO	27.82	0.00	27.78	27.85	77.184891	77.2		2759	2343
34	13C-123789-HxCDD		508044	284915	223129	1.28	NO	34.49	0.00	34.46	34.53	80.696420	80.7		2593	2019
35	37Cl-2378-TCDD		1609054	1609054				28.51	1.00	28.48	28.55	218.61959	109.3		1606	
36	Total-Tetradioxins	3		801486								206.53423			1866	
37	Total-Pentadioxins	4		3623893								1036.5100			1393	

Quantify Sample Summary Report **MassLynx MassLynx V4.1 SCN 901**

Dataset: I:\Organics Instrument\HIGHRES GCMS Completed Results Files\HR-7\7-210611A-ICAL-1613.qld

Last Altered: Monday, June 14, 2021 09:35:05 Eastern Daylight Time
Printed: Thursday, June 17, 2021 12:13:23 Eastern Daylight Time

Name: 7-210611A06, Date: 11-Jun-2021, Time: 16:04:38, ID: H7-21-CS5-0199, Description: 1613B-CS5-012, Vial: Tray1:8

	Target Analyte	#Hom	Total Area	Ion1 Area	Ion2 Area	Ra	Ra Fail=YES	RT	RRT	RT LCL	RT UCL	pg	%Rec	Mod.Comment	Noise 1	Noise 2
38	Total-Hexadioxins	3		8643432								2997.9242			3291	
39	Total-Heptadioxins	2		1931135								982.09954			2932	
40	Total-OCDD	4		2513266								1901.6932			3203	
41	Total-Tetrafurans	4		1090673								207.52349			1555	
42	Total-PeCDF-F1			0											570	
43	Total-Pentafurans	8		13260586								2060.3183			4479	
44	Total-Hexafurans	7		19992138								4092.0887			6640	
45	Total-Heptafurans	4		6184217								1958.5701			13013	
46	Totals-OCDF	3		3840286								2039.2134			6348	
47	Totals-37Cl-2378-TCDD	5		1609830								218.72496			1606	

Quantify Sample Report **MassLynx MassLynx V4.1 SCN 901**

Dataset: I:\Organics Instrument\HIGHRES GCMS Completed Results Files\HR-7\7-210611A-ICAL-1613.qld

Last Altered: Monday, June 14, 2021 09:35:05 Eastern Daylight Time
Printed: Thursday, June 17, 2021 12:13:23 Eastern Daylight Time

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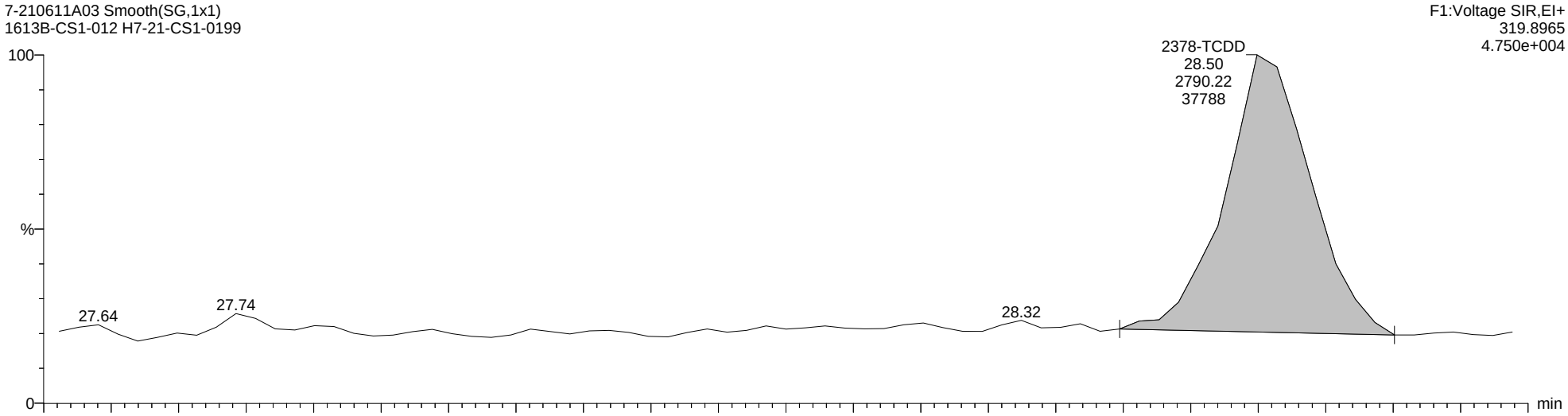
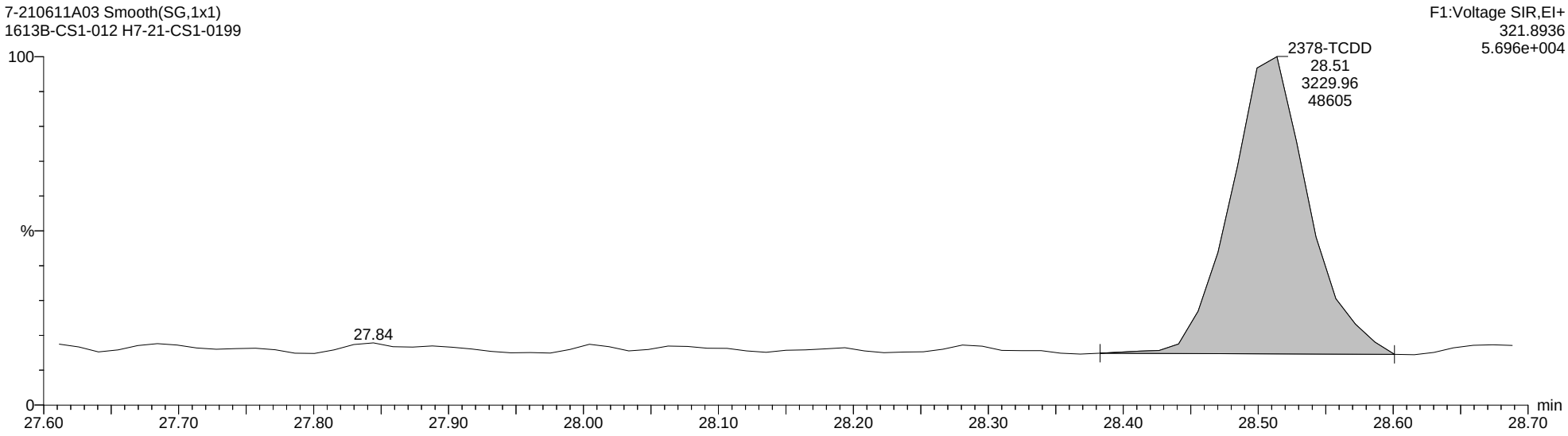
Calibration: C:\MassLynx\Dioxin.PRO\CurveDB\7-210611A-CAL5-1613.cdb 14 Jun 2021 09:35:05

Name: 7-210611A03, Date: 11-Jun-2021, Time: 13:54:08, ID: H7-21-CS1-0199, Description: 1613B-CS1-012, Vial: Tray1:5

2378-TCDD





Quantify Sample Report **MassLynx MassLynx V4.1 SCN 901**

Dataset: I:\Organics Instrument\HIGHRES GCMS Completed Results Files\HR-7\7-210611A-ICAL-1613.qld

Last Altered: Monday, June 14, 2021 09:35:05 Eastern Daylight Time
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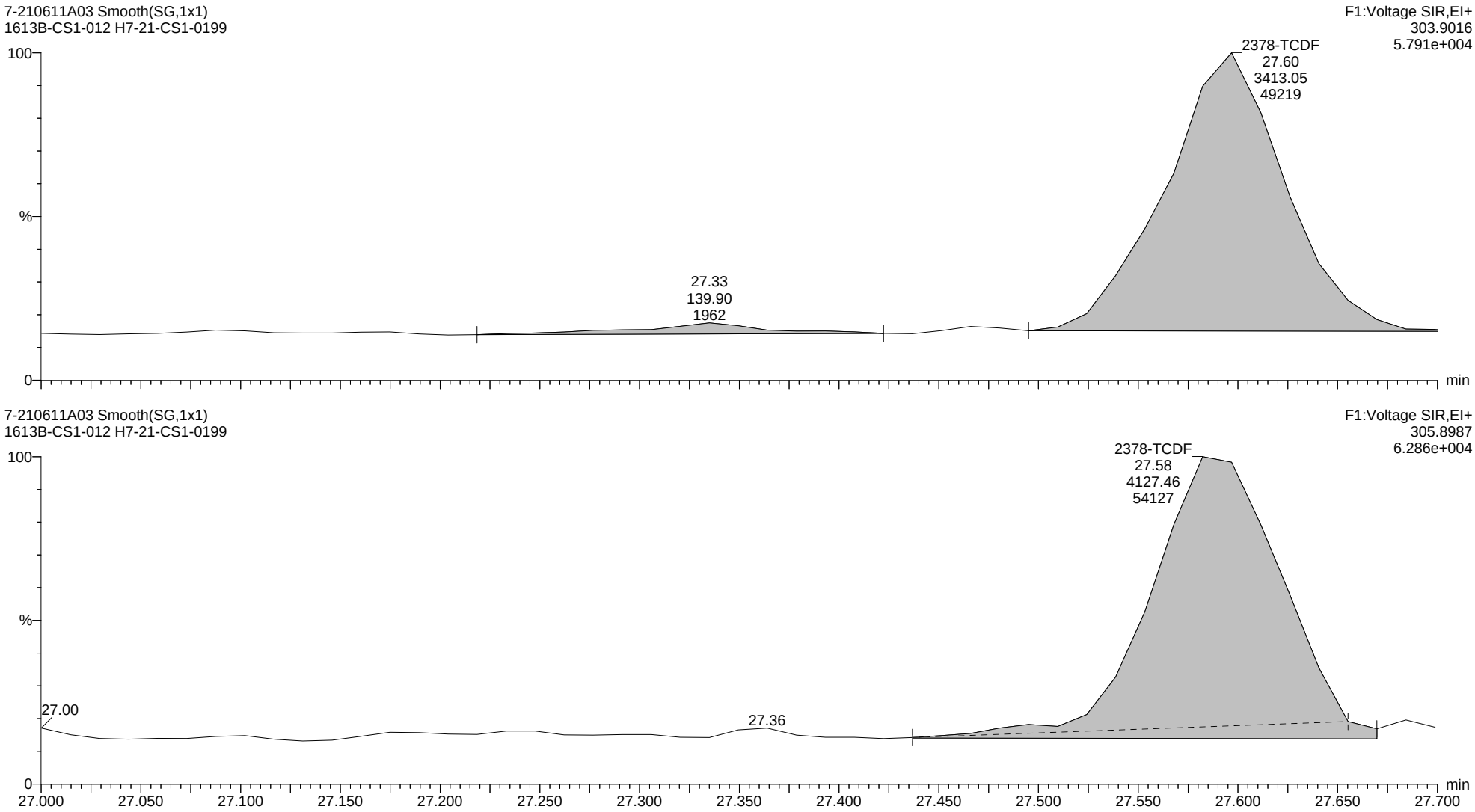
Name: 7-210611A03, Date: 11-Jun-2021, Time: 13:54:08, ID: H7-21-CS1-0199, Description: 1613B-CS1-012, Vial: Tray1:5

2378-TCDF



1435 Norjohn Court, Unit 1, Burlington, ON, Canada L7L 0E6

SVOC DATA PACKAGE

APPENDIX 1: INSTRUMENT OUTPUT DOCUMENTS

Including For Each Analytical Sequence::

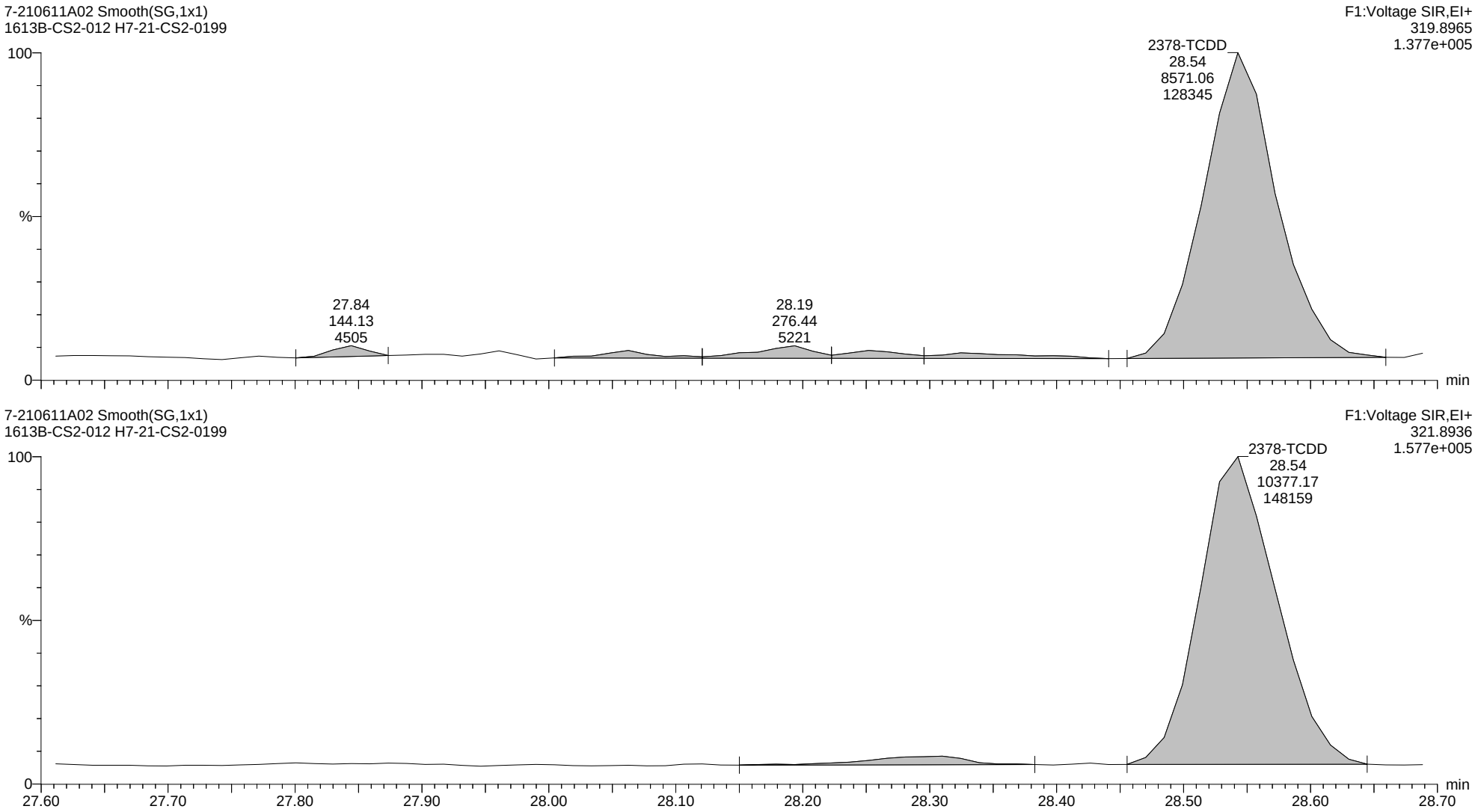
- The scanned instrument runlogs

- Instrument output (SICP chromatograms) indicating the integrations used for quantification including:
  - GC chromatographic resolution checks, where appropriate
  - SICPs for the run
  - SICP chromatograms indicating both the automated and manual peak integrati where this has been edited

- Reference peak profiles indicating the mass resolution
  - Pre-run mass calibration check printouts
  - Post-run mass calibration check printouts

Name: 7-210611A02, Date: 11-Jun-2021, Time: 13:13:45, ID: H7-21-CS2-0199, Description: 1613B-CS2-012, Vial: Tray1:4

2378-TCDD



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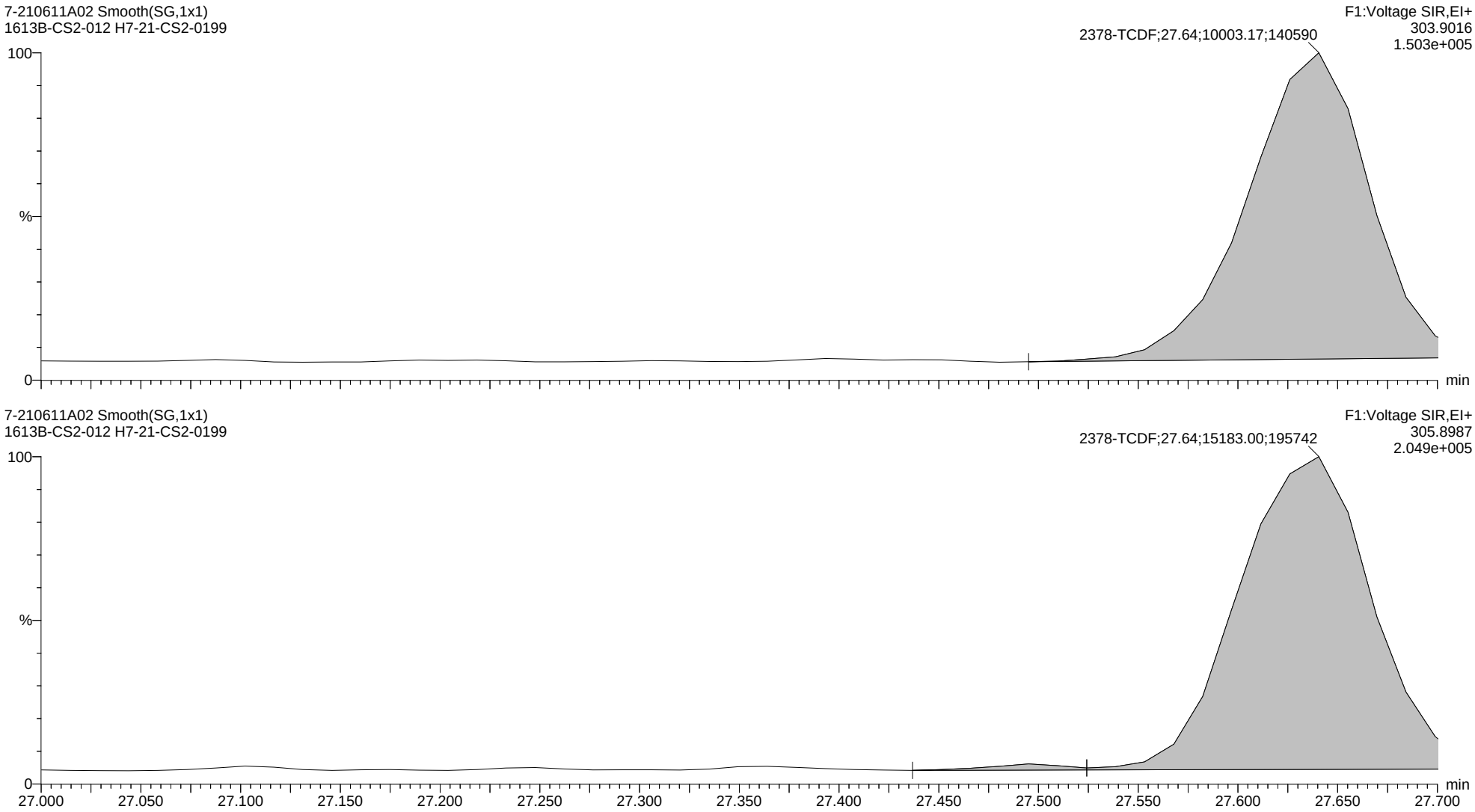

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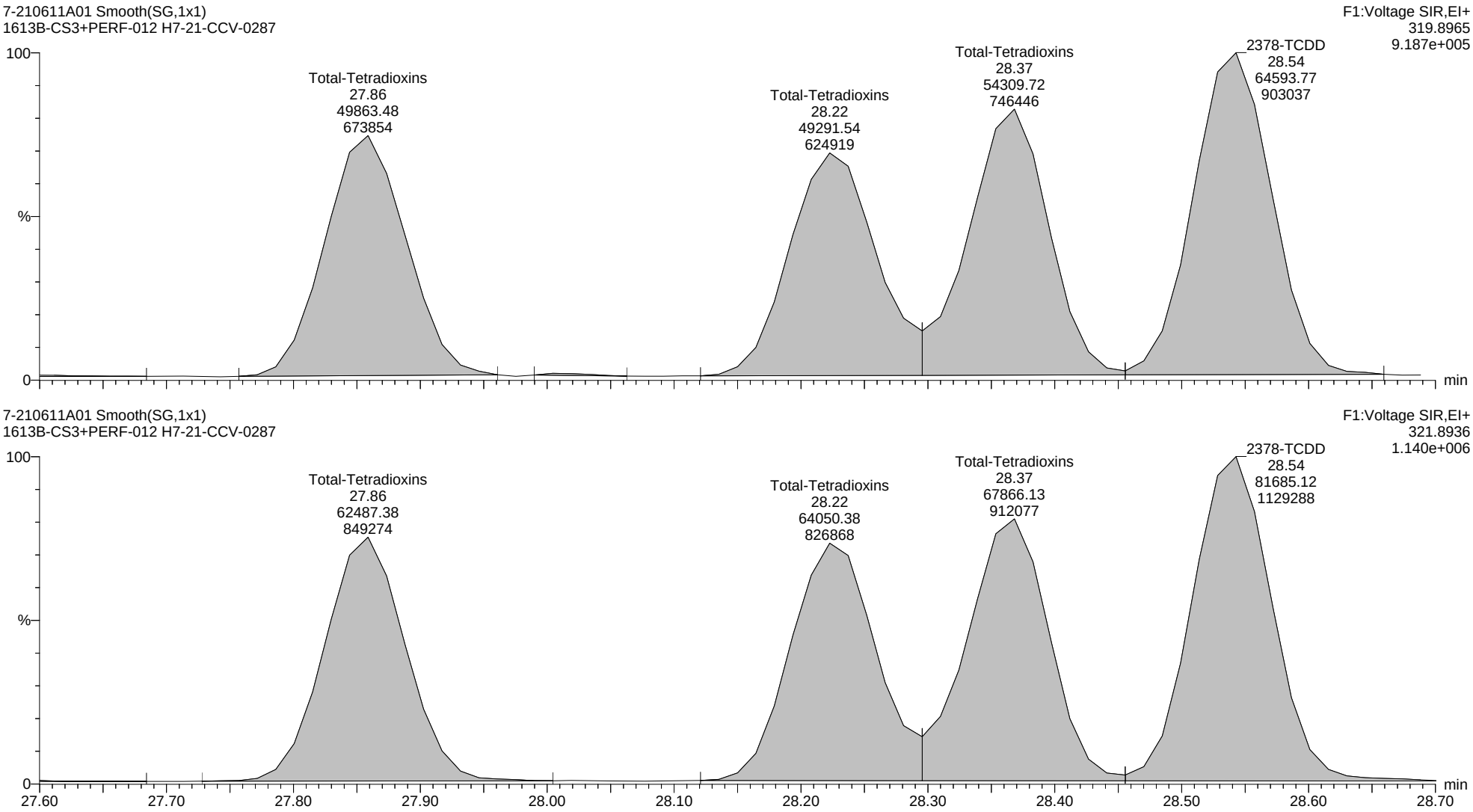

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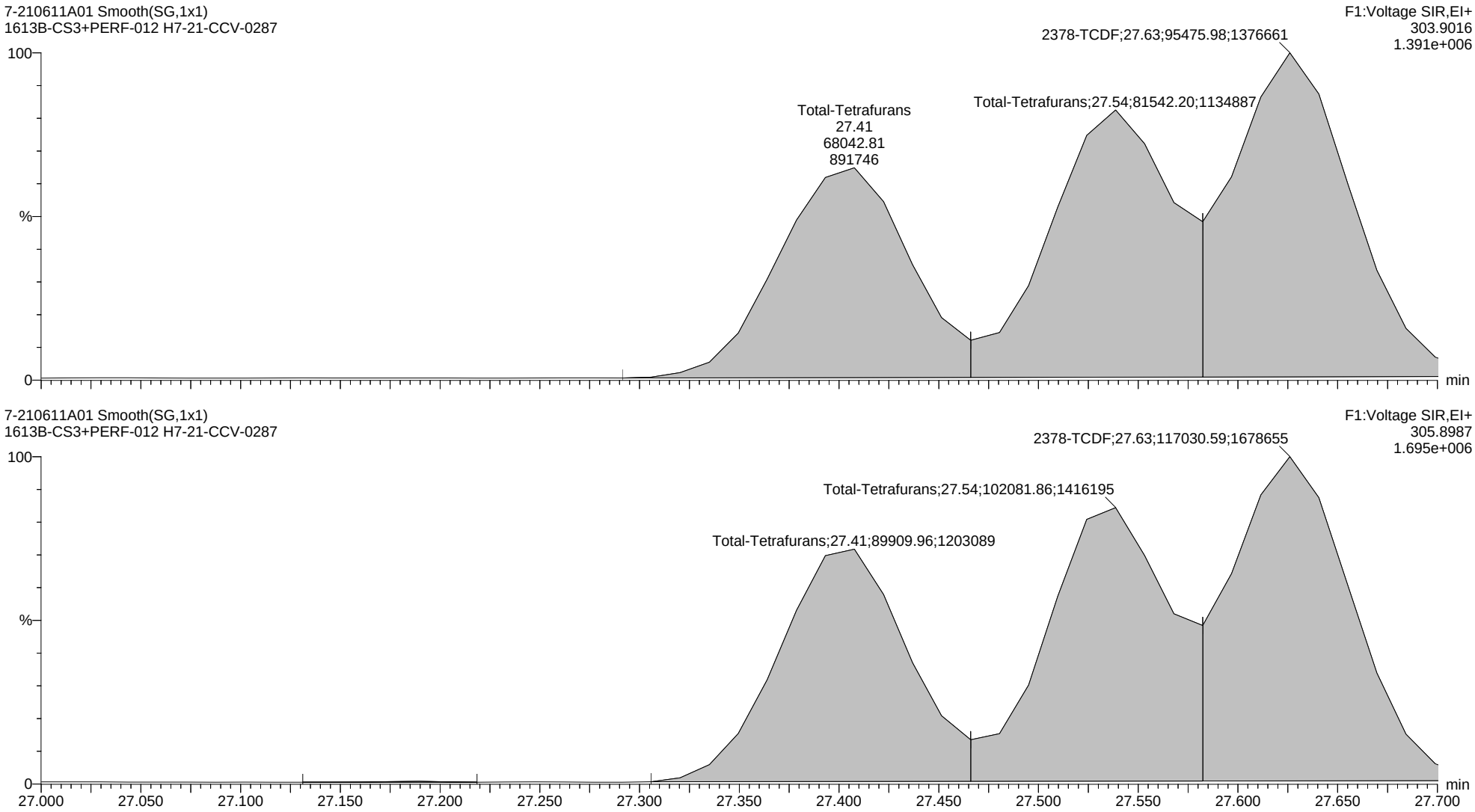
2378-TCDF



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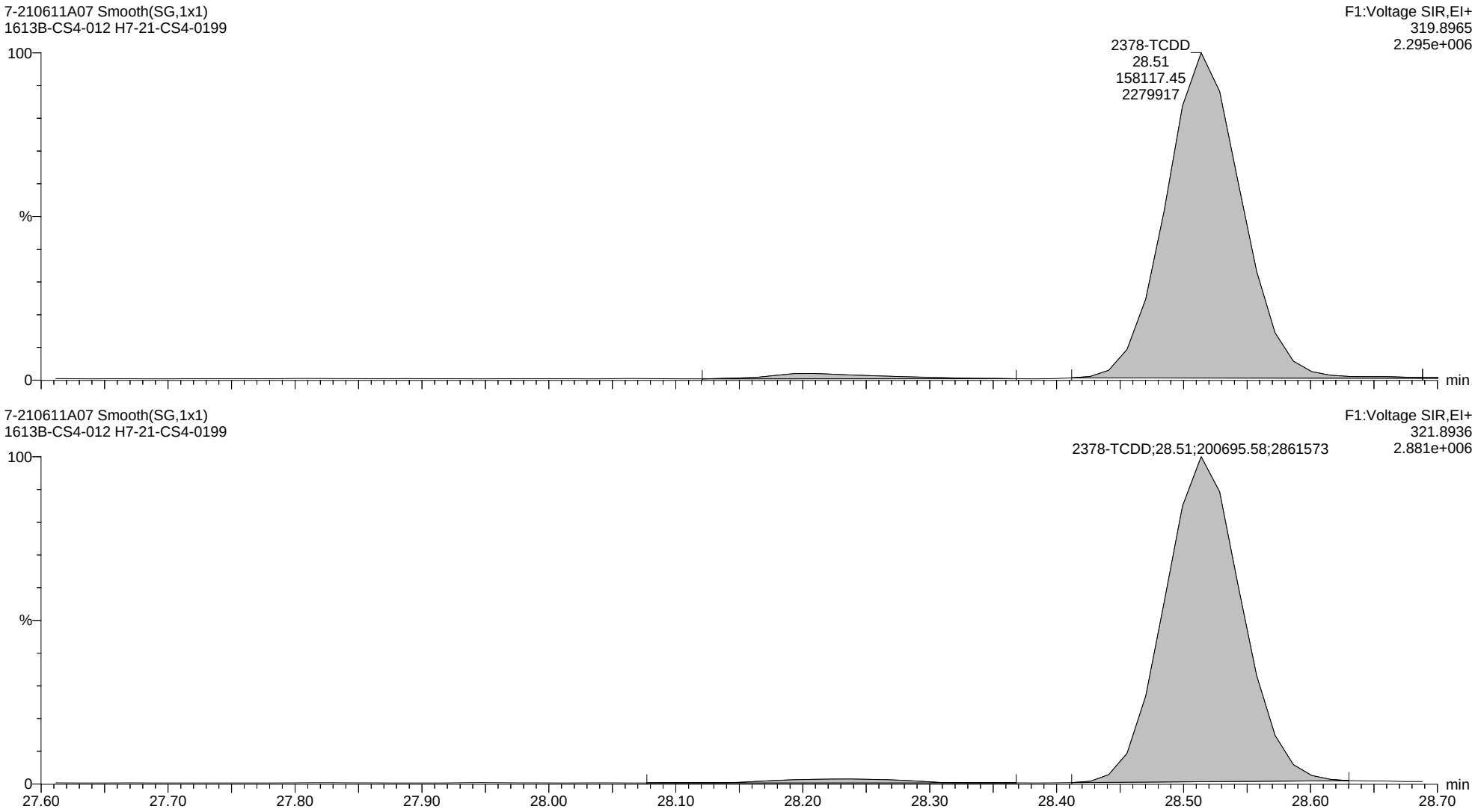
2378-TCDD



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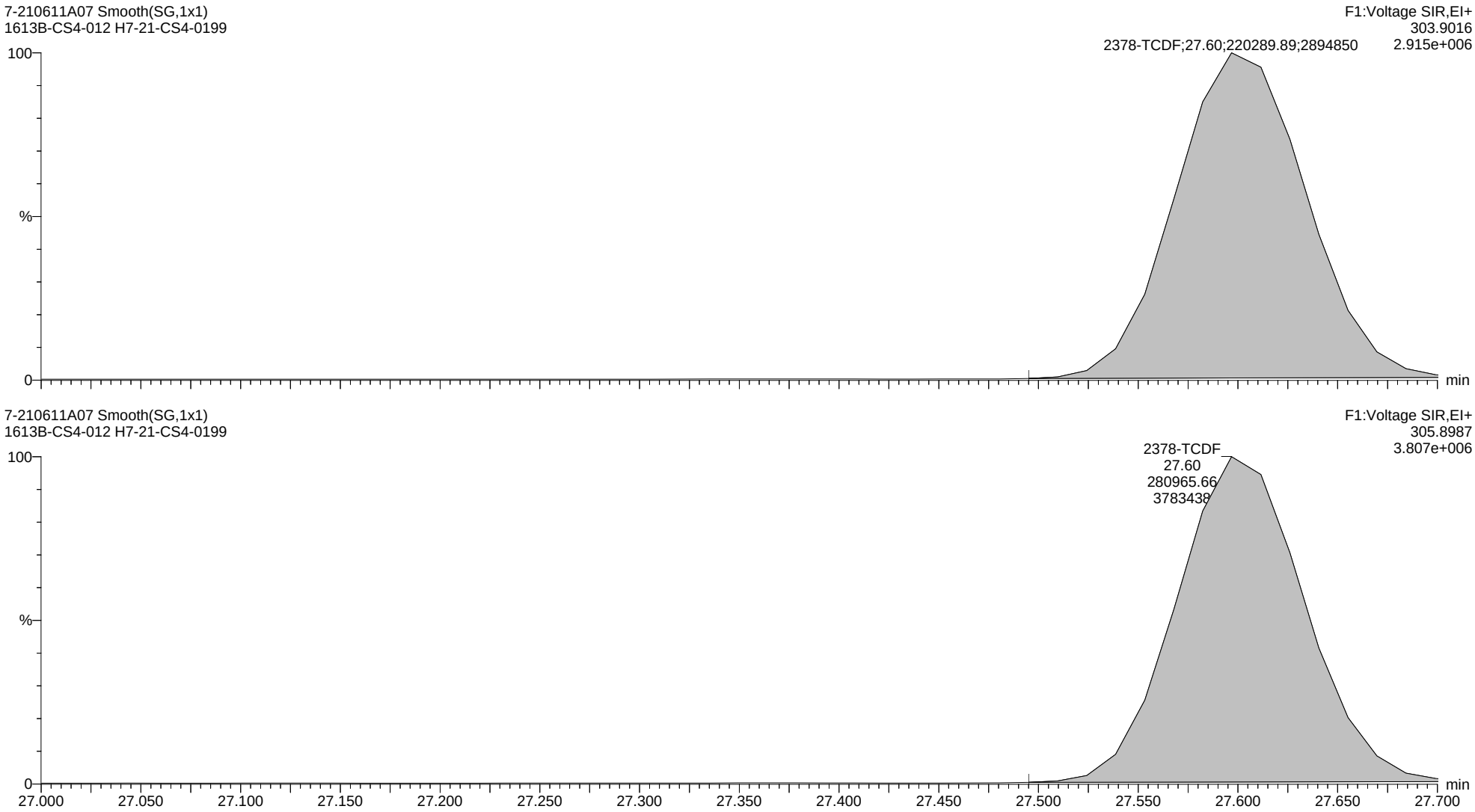
2378-TCDF



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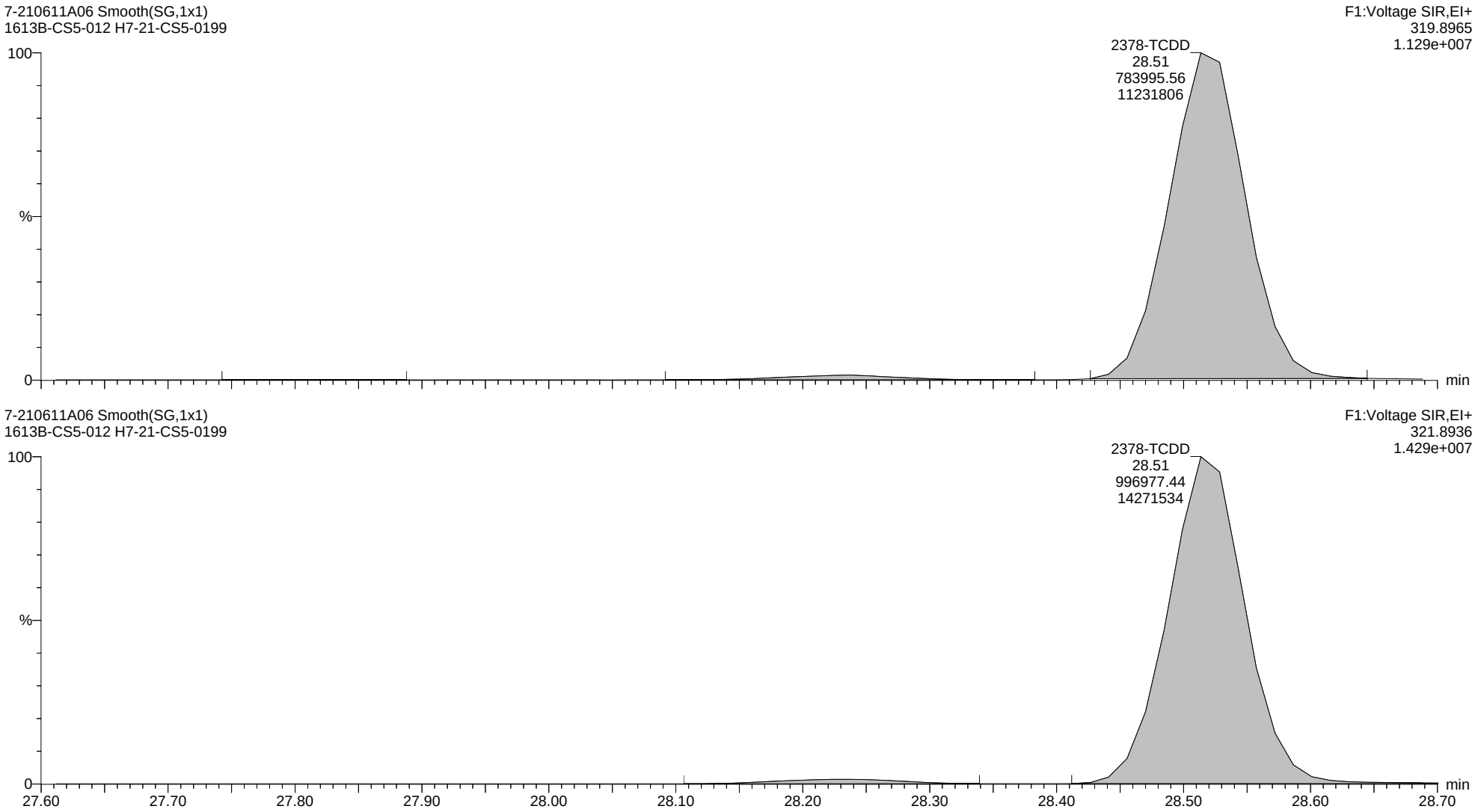
2378-TCDD



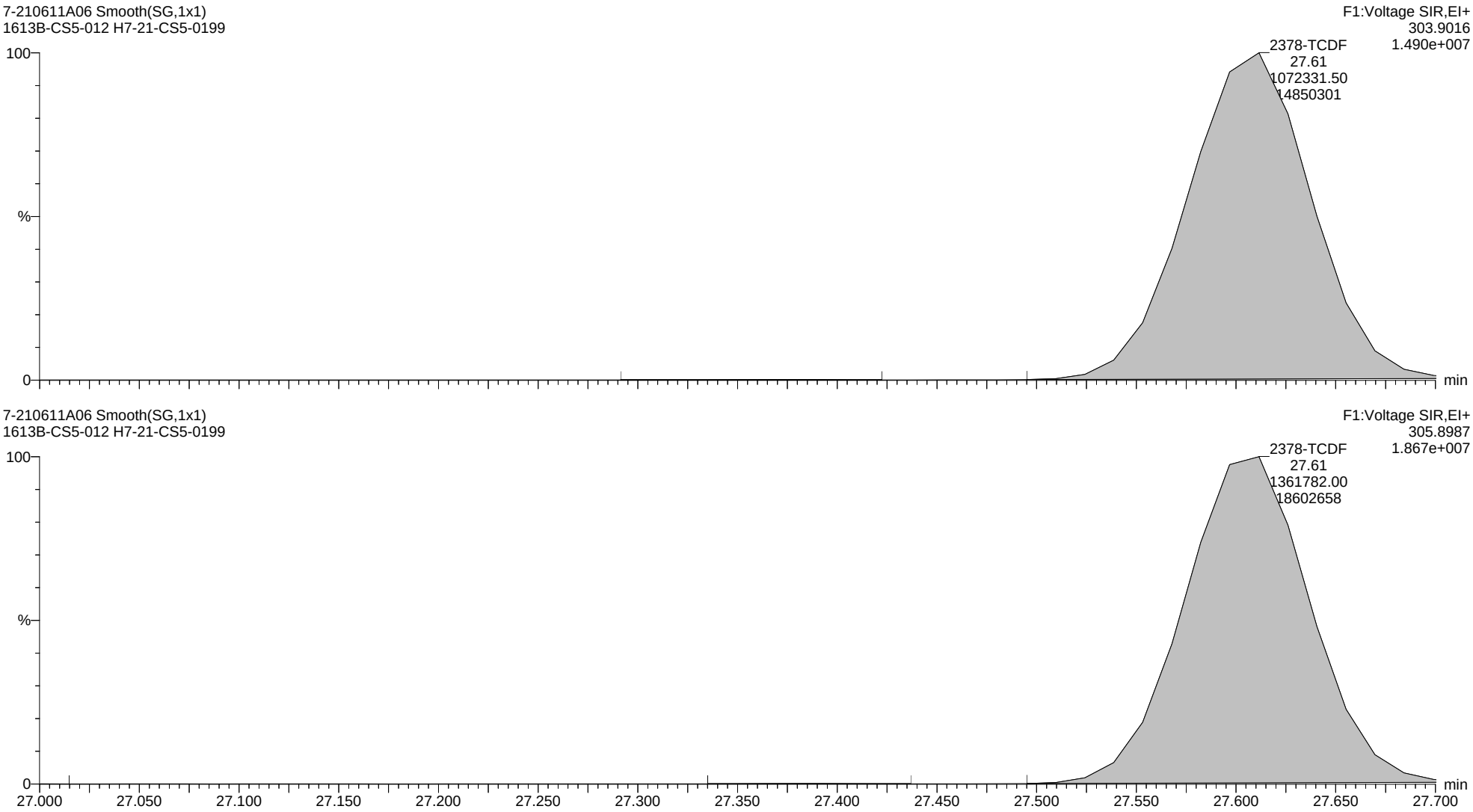
Quantify Sample Report **MassLynx MassLynx V4.1 SCN 901**

Dataset: I:\Organics Instrument\HIGHRES GCMS Completed Results Files\HR-7\7-210611A-ICAL-1613.qld

Last Altered: Monday, June 14, 2021 09:35:05 Eastern Daylight Time
Printed: Thursday, June 17, 2021 12:13:23 Eastern Daylight Time

Name: 7-210611A06, Date: 11-Jun-2021, Time: 16:04:38, ID: H7-21-CS5-0199, Description: 1613B-CS5-012, Vial: Tray1:8

2378-TCDF



Quantify Audit Report MassLynx MassLynx V4.1 SCN 901

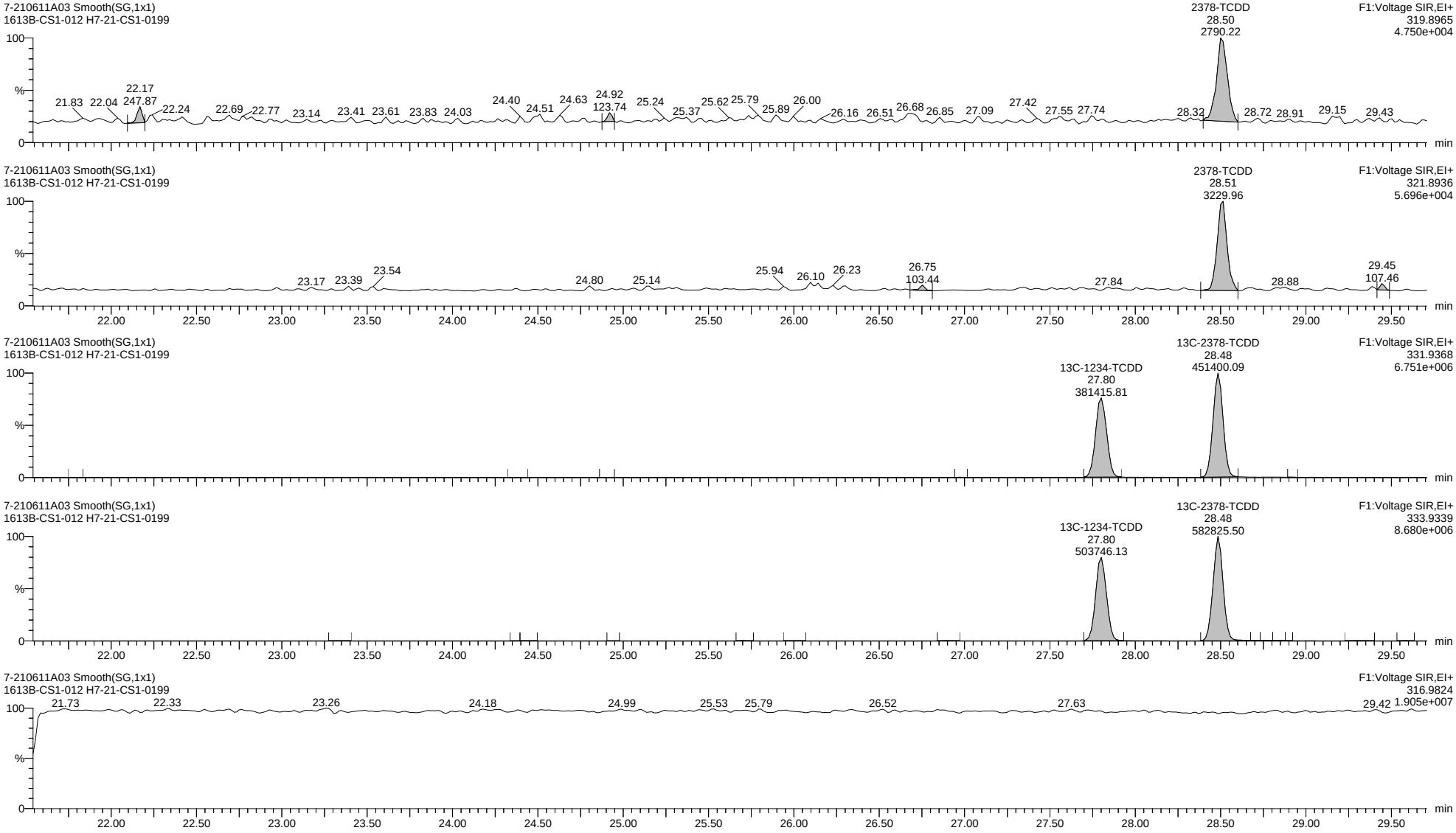
Dataset: I:\Organics Instrument\HIGHRES GCMS Completed Results Files\HR-7\7-210611A-ICAL-1613.qld

Last Altered: Monday, June 14, 2021 09:35:05 Eastern Daylight Time
Printed: Thursday, June 17, 2021 12:13:23 Eastern Daylight Time

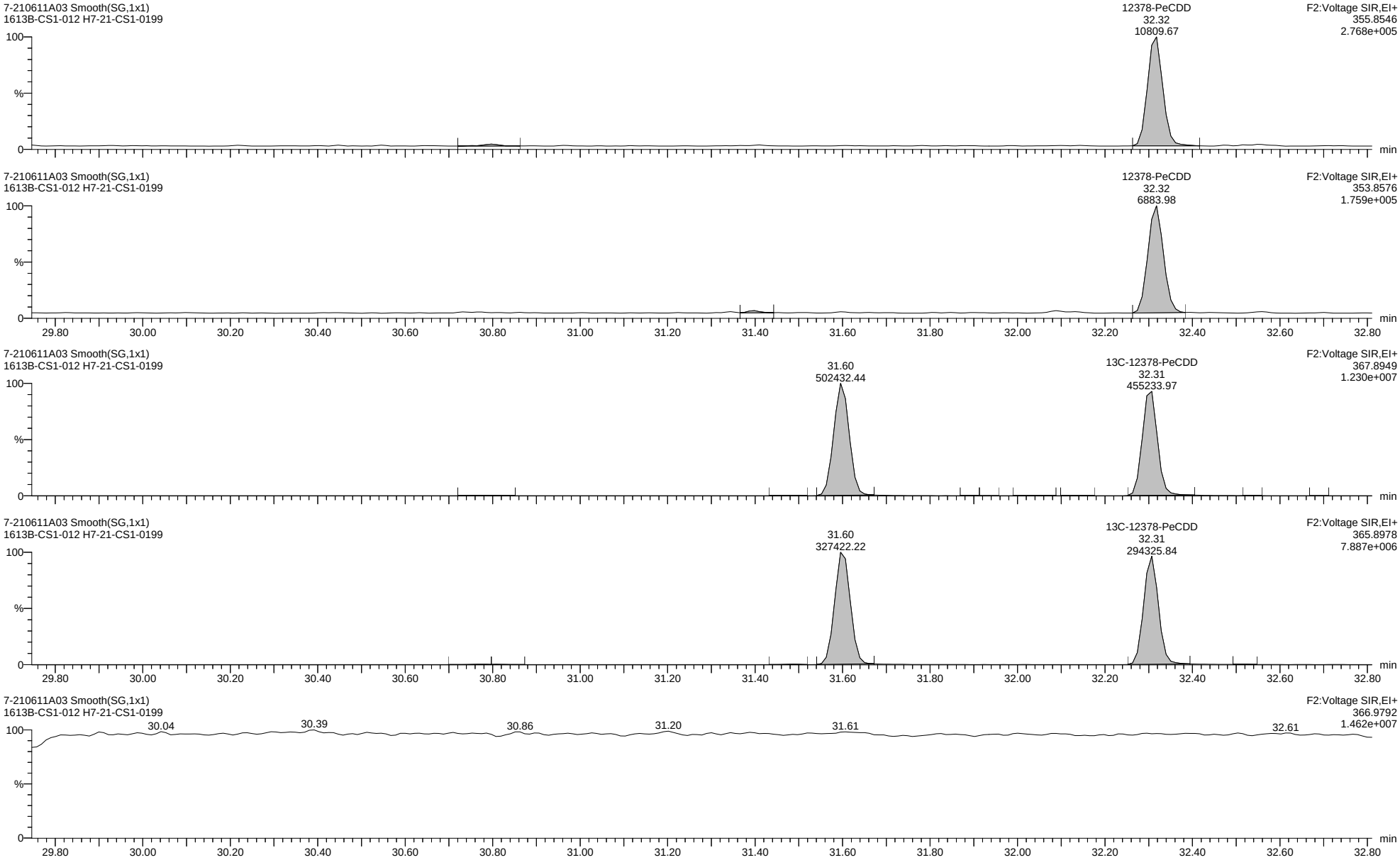
Date	Time	Event	Details	Comments
14-Jun-21	09:28:44	Process Extract		
14-Jun-21	09:28:44	Process Integrate		
14-Jun-21	09:28:44	Process Calibrate		
14-Jun-21	09:28:44	Process Quantify		
14-Jun-21	09:28:44	Dataset Created		
14-Jun-21	09:29:08	Pre modification peak	Sample:7-210611A03, Compound:TF, RT:27.582	
14-Jun-21	09:29:08	Peak modified	Sample:7-210611A03, Compound:TF, RT:27.582	NA210614MB
14-Jun-21	09:30:21	Method modified		
14-Jun-21	09:30:26	Process Calibrate		
14-Jun-21	09:30:26	Process Quantify		
14-Jun-21	09:30:53	Method modified		
14-Jun-21	09:31:05	Peak deleted	Sample:7-210611A07, Compound:13CHXD, RT:34.907	
14-Jun-21	09:31:05	Peak deleted	Sample:7-210611A07, Compound:13CHXD, RT:34.864	
14-Jun-21	09:31:05	Peak deleted	Sample:7-210611A07, Compound:13CHXD, RT:34.811	
14-Jun-21	09:31:05	Peak deleted	Sample:7-210611A07, Compound:13CHXD, RT:34.715	
14-Jun-21	09:31:05	Peak deleted	Sample:7-210611A07, Compound:13CHXD, RT:34.641	
14-Jun-21	09:31:05	Peak deleted	Sample:7-210611A07, Compound:13CHXD, RT:34.928	
14-Jun-21	09:31:05	Peak deleted	Sample:7-210611A07, Compound:13CHXD, RT:34.864	
14-Jun-21	09:31:05	Peak deleted	Sample:7-210611A07, Compound:13CHXD, RT:34.705	
14-Jun-21	09:31:05	Peak deleted	Sample:7-210611A07, Compound:13CHXD, RT:34.641	
14-Jun-21	09:31:10	Process Calibrate		
14-Jun-21	09:31:10	Process Quantify		
14-Jun-21	09:31:55	Peak deleted	Sample:7-210611A06, Compound:13CHXD, RT:34.747	
14-Jun-21	09:31:55	Peak deleted	Sample:7-210611A06, Compound:13CHXD, RT:34.641	
14-Jun-21	09:31:55	Peak deleted	Sample:7-210611A06, Compound:13CHXD, RT:34.641	
14-Jun-21	09:32:10	Peak deleted	Sample:7-210611A06, Compound:13CHPF, RT:36.420	
14-Jun-21	09:32:10	Peak deleted	Sample:7-210611A06, Compound:13CHPF, RT:36.387	
14-Jun-21	09:35:04	Peak deleted	Sample:7-210611A03, Compound:13CHXD, RT:34.747	
14-Jun-21	09:35:04	Peak deleted	Sample:7-210611A03, Compound:13CHXD, RT:34.641	
14-Jun-21	09:35:04	Peak deleted	Sample:7-210611A03, Compound:13CHXD, RT:34.620	
14-Jun-21	09:35:04	Peak deleted	Sample:7-210611A03, Compound:13CHXD, RT:34.620	
14-Jun-21	09:35:04	Peak deleted	Sample:7-210611A03, Compound:13CHXD, RT:34.970	
14-Jun-21	09:35:04	Peak deleted	Sample:7-210611A03, Compound:13CHXD, RT:34.917	
14-Jun-21	09:35:04	Peak deleted	Sample:7-210611A03, Compound:13CHXD, RT:34.811	
14-Jun-21	09:35:04	Peak deleted	Sample:7-210611A03, Compound:13CHXD, RT:34.673	
14-Jun-21	09:36:44	Dataset Saved	Saved to 'I:\Organics Instrument\HIGHRES GCMS Complete...	
14-Jun-21	09:37:29	Calibration Saved	Saved to 'C:\MassLynx\Dioxin.PRO\CurveDB\7-210611A-CAL...	
14-Jun-21	09:37:47	Dataset Saved	Saved to 'I:\Organics Instrument\HIGHRES GCMS Complete...	

Method: C:\MassLynx\Dioxin.PRO\MethDB\Dioxin_1613B.mdb 08 Jun 2021 10:17:10
Calibration: C:\MassLynx\Dioxin.PRO\CurveDB\7-210611A-CAL5-1613.cdb 14 Jun 2021 09:35:05

Name: 7-210611A03, Date: 11-Jun-2021, Time: 13:54:08, ID: H7-21-CS1-0199, Description: 1613B-CS1-012, Vial: Tray1:5



Name: 7-210611A03, Date: 11-Jun-2021, Time: 13:54:08, ID: H7-21-CS1-0199, Description: 1613B-CS1-012, Vial: Tray1:5



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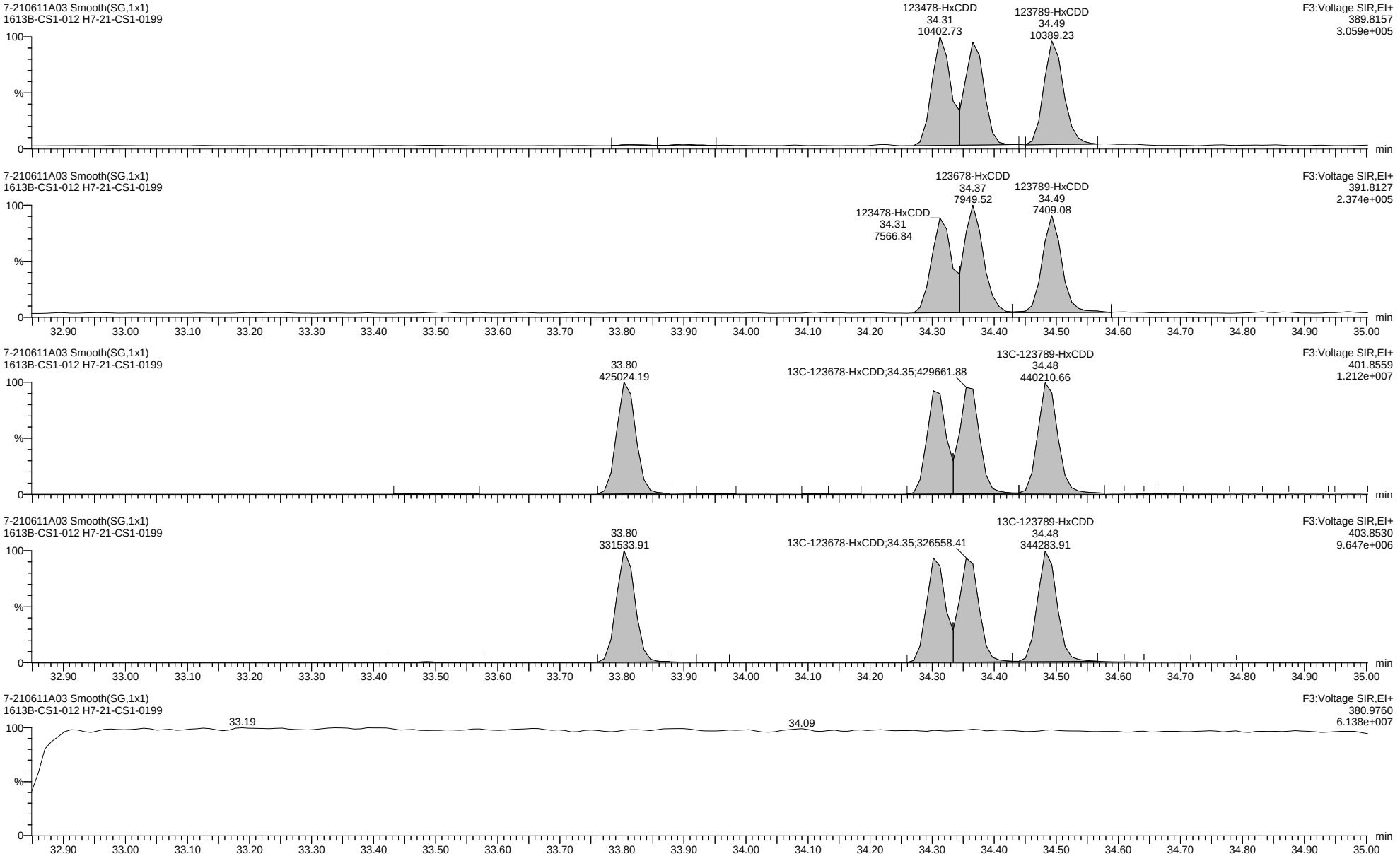

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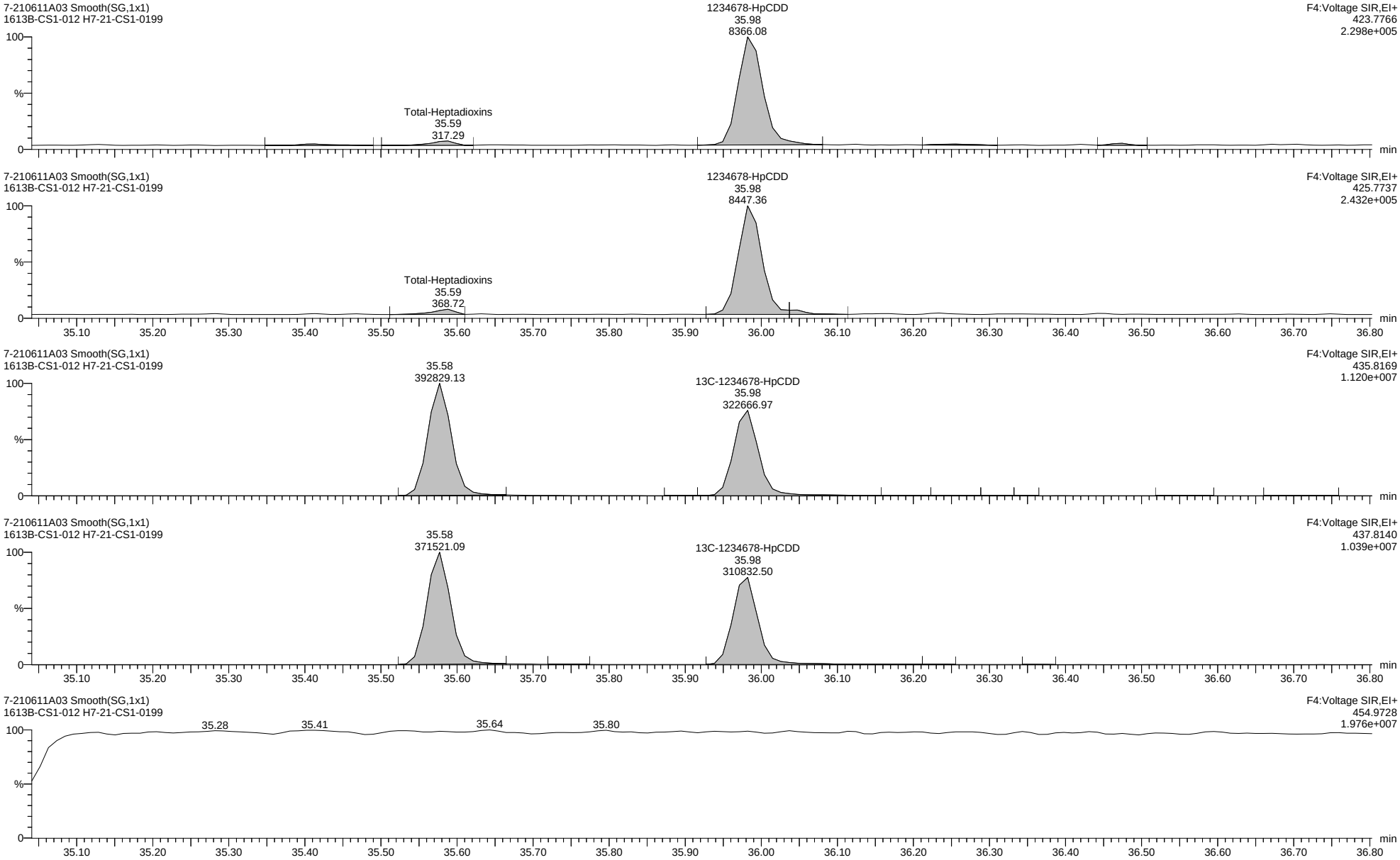

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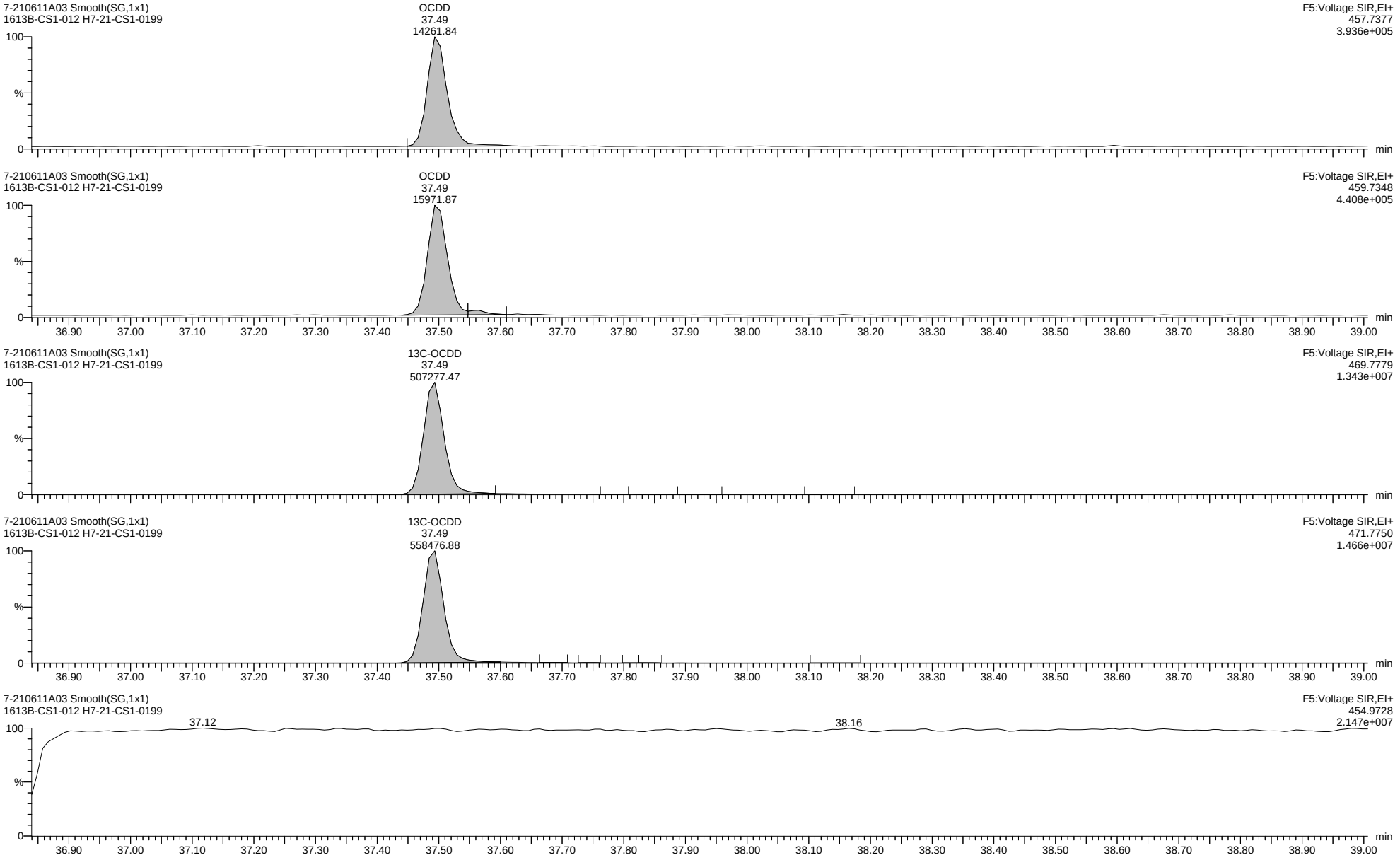

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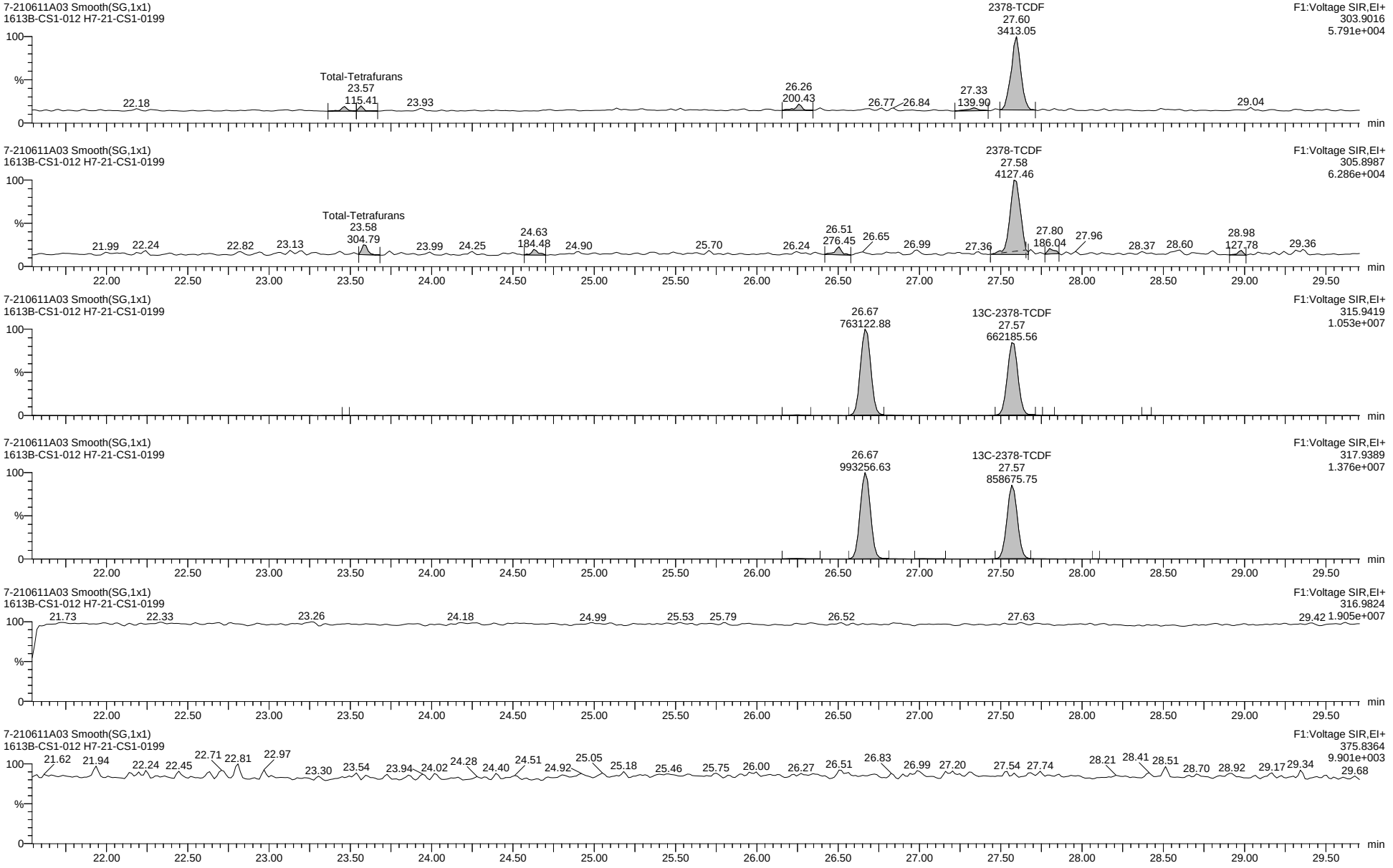

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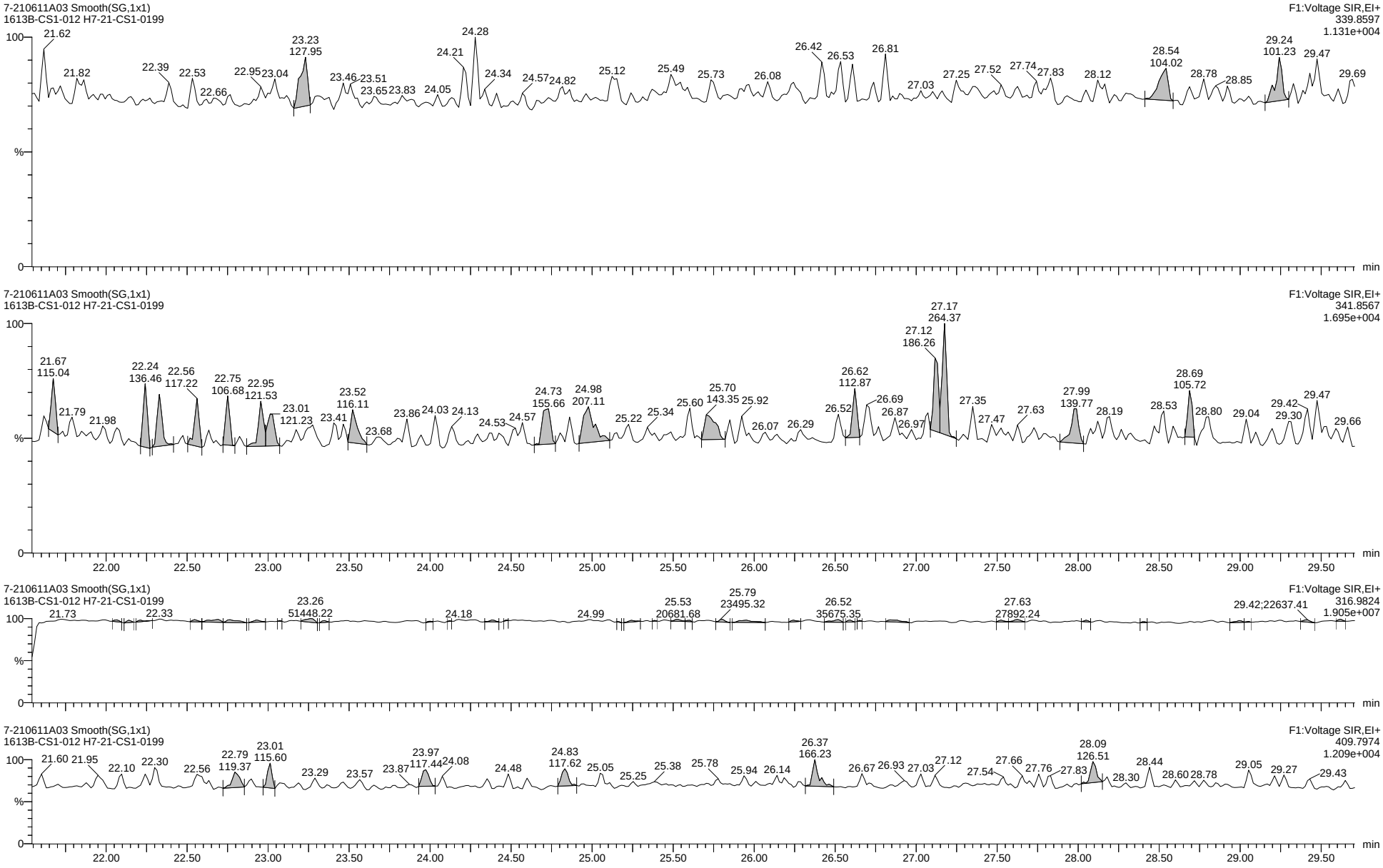

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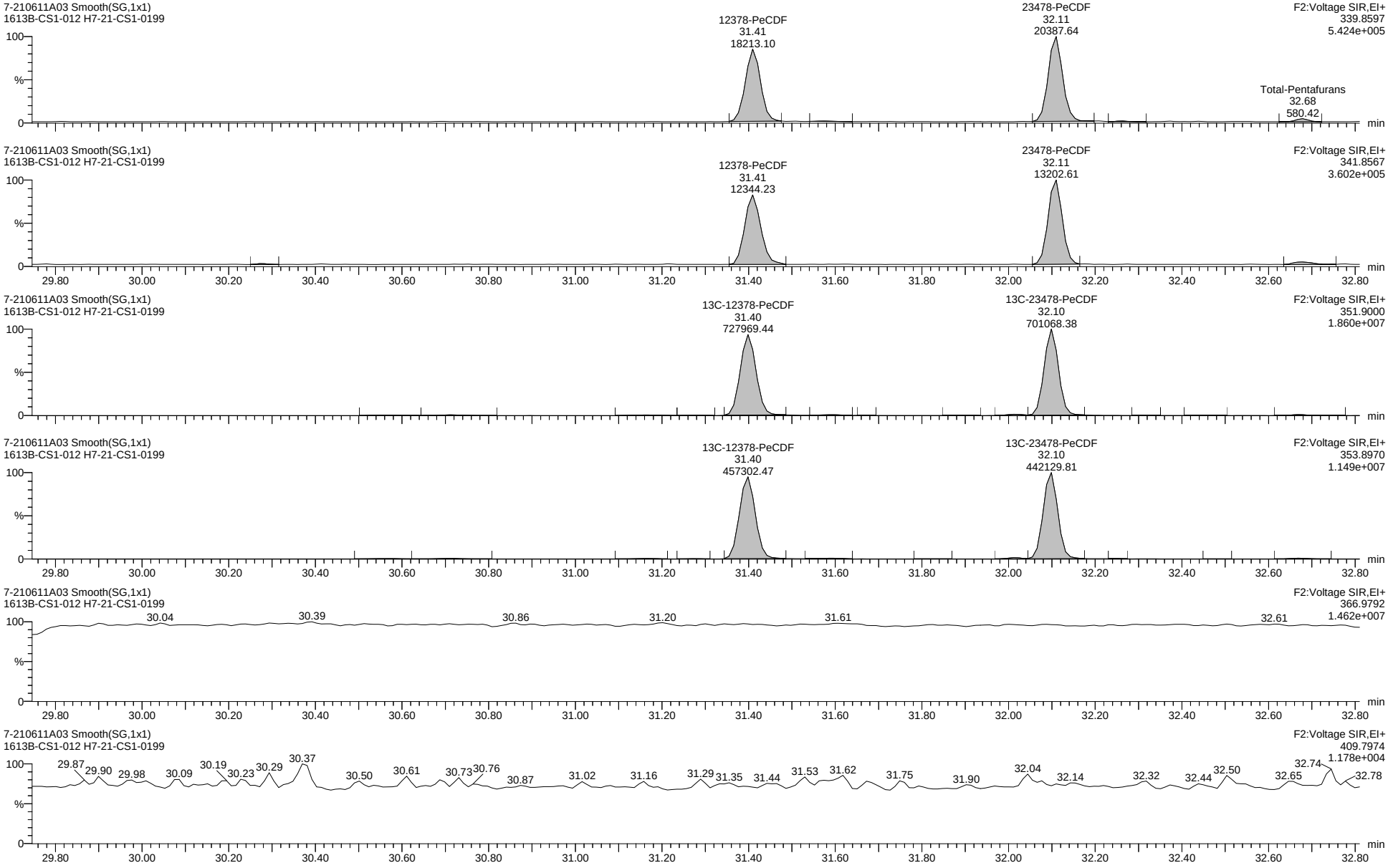

Dataset: I:\Organics Instrument\HIGHRES GCMS Completed Results Files\HR-7\7-210611A-ICAL-1613.qld

Last Altered: Monday, June 14, 2021 09:35:05 Eastern Daylight Time
Printed: Thursday, June 17, 2021 12:13:23 Eastern Daylight Time

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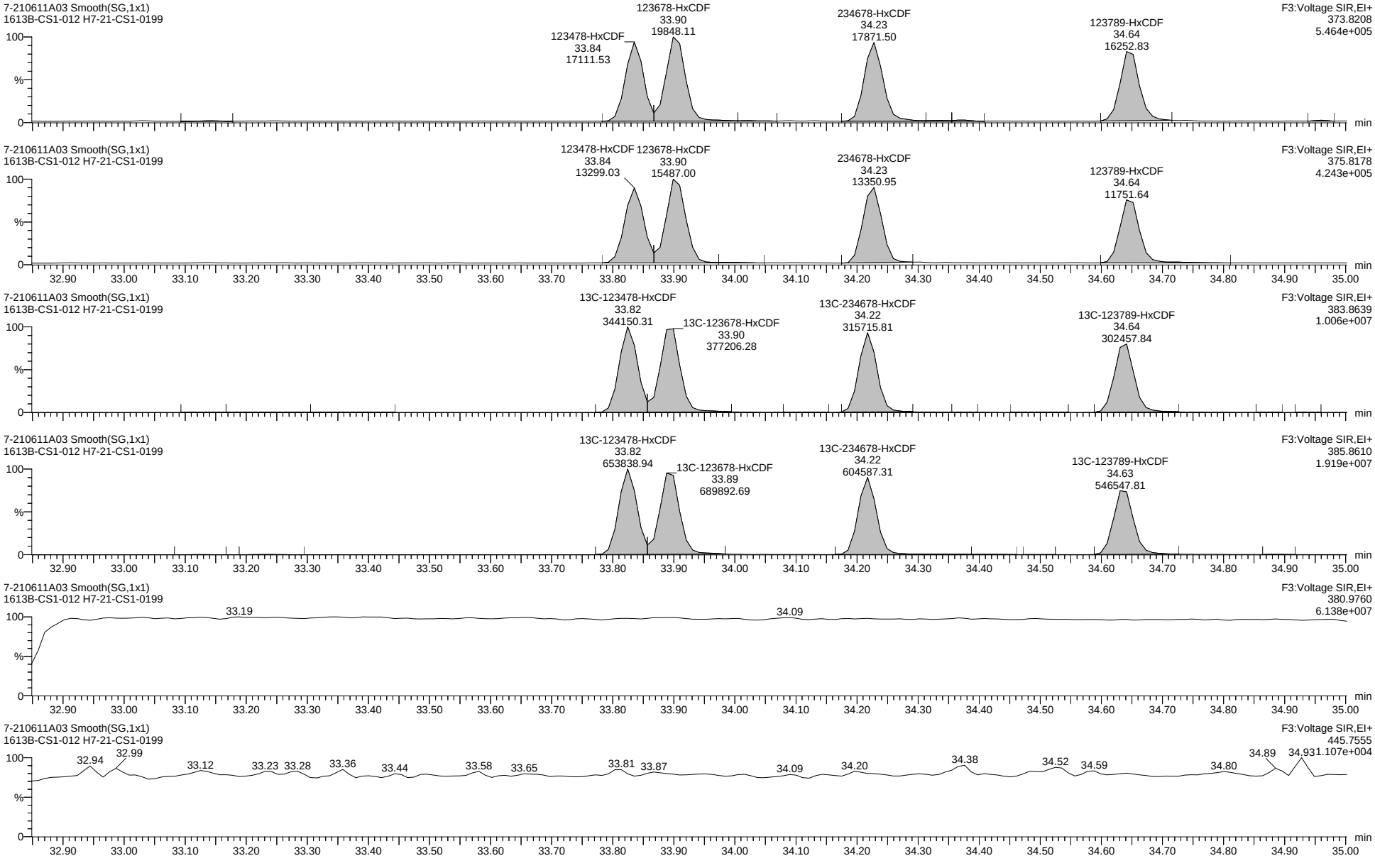

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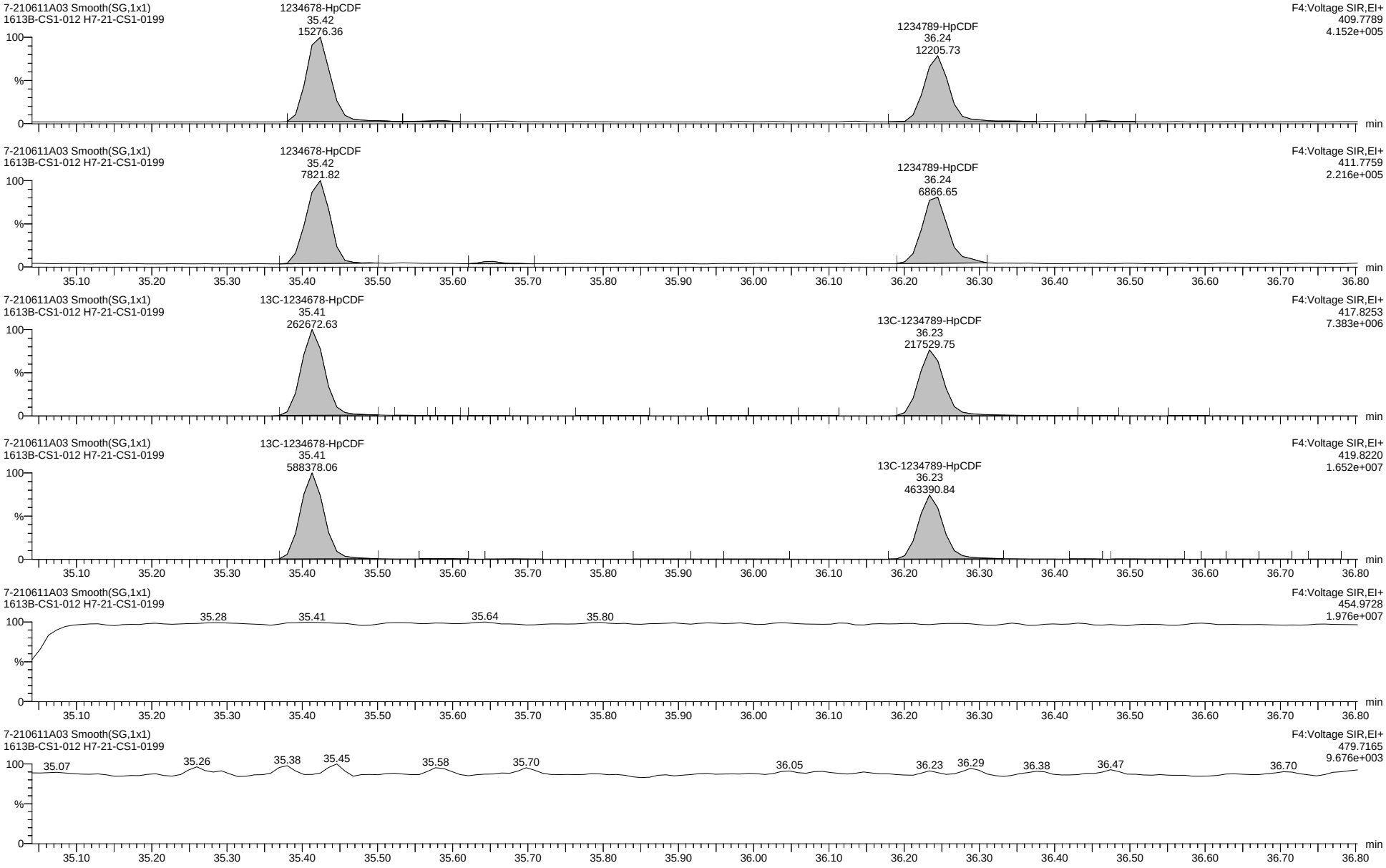

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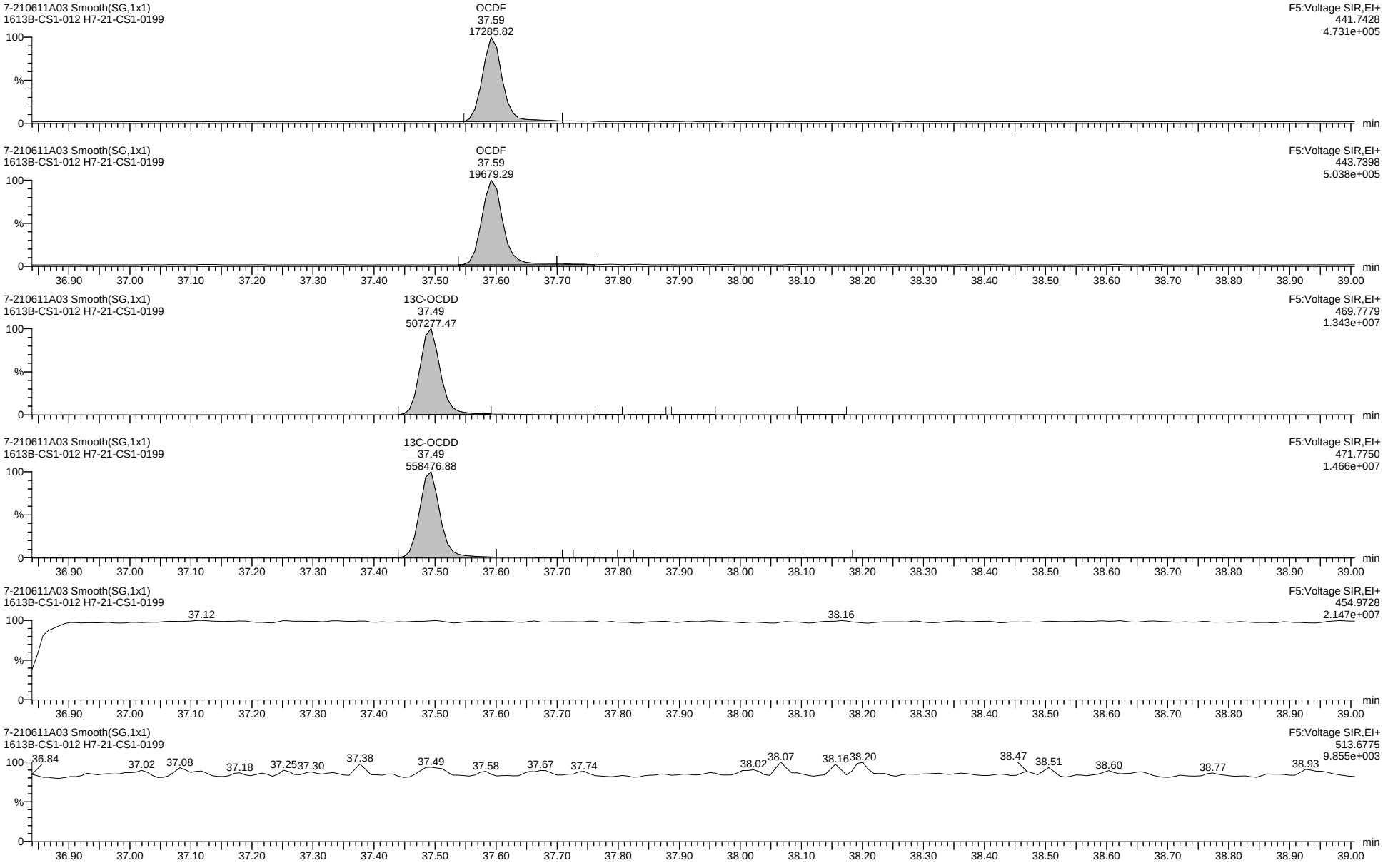
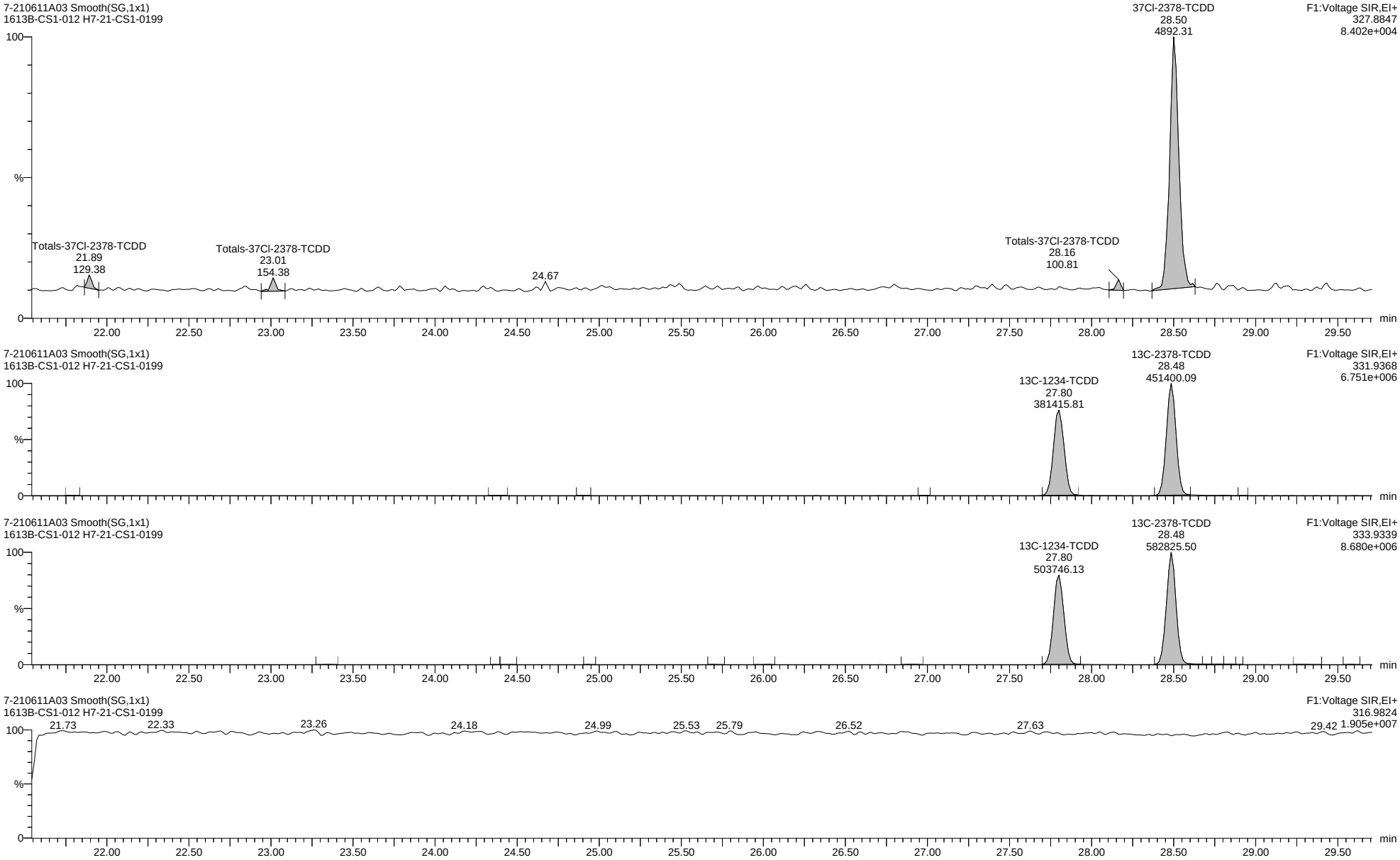


Name: 7-210611A03, Date: 11-Jun-2021, Time: 13:54:08, ID: H7-21-CS1-0199, Description: 1613B-CS1-012, Vial: Tray1:5



Quantify Sample Template Report **MassLynx MassLynx V4.1 SCN 901**

Dataset: I:\Organics Instrument\HIGHRES GCMS Completed Results Files\HR-7\7-210611A-ICAL-1613.qld

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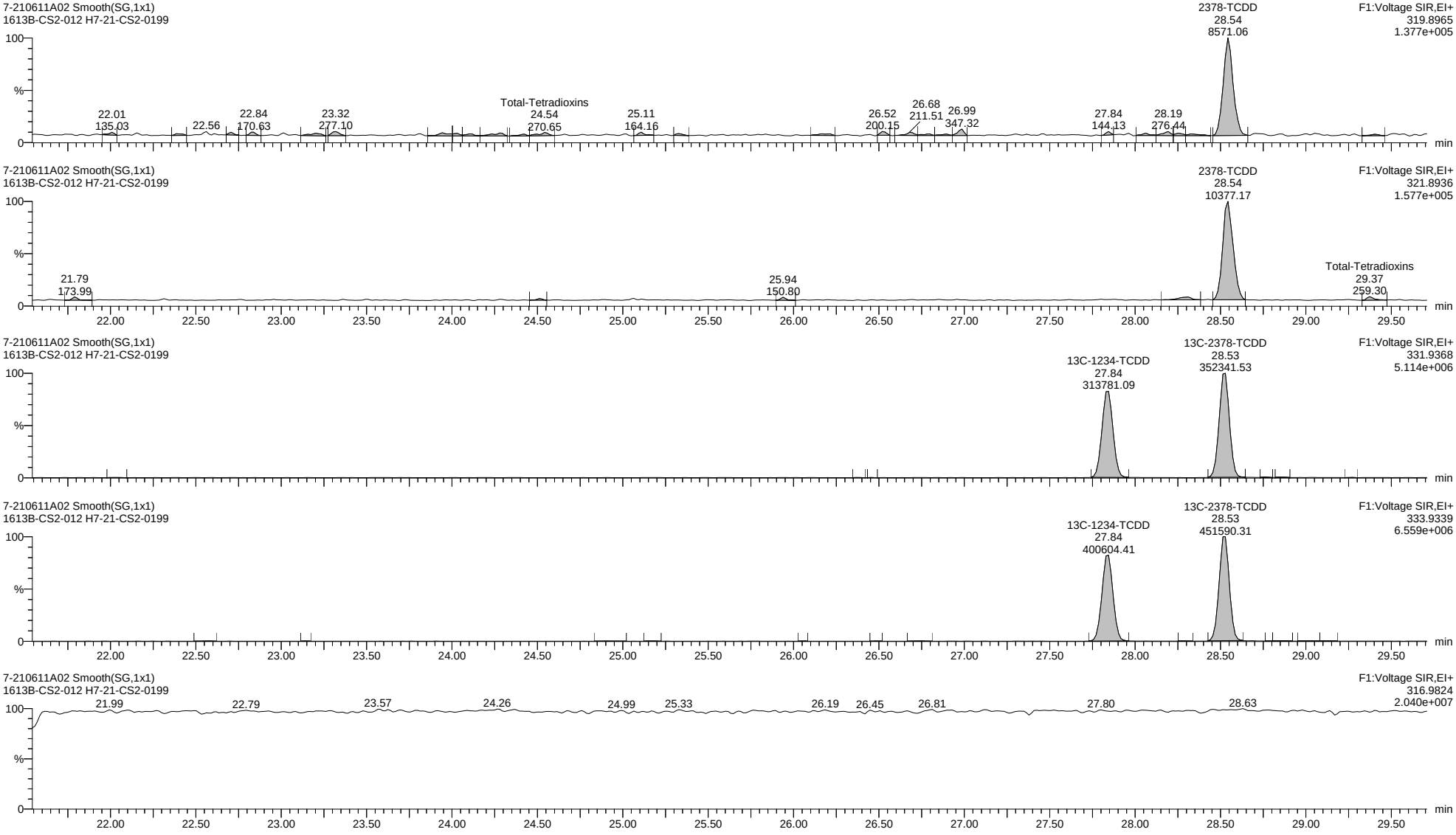
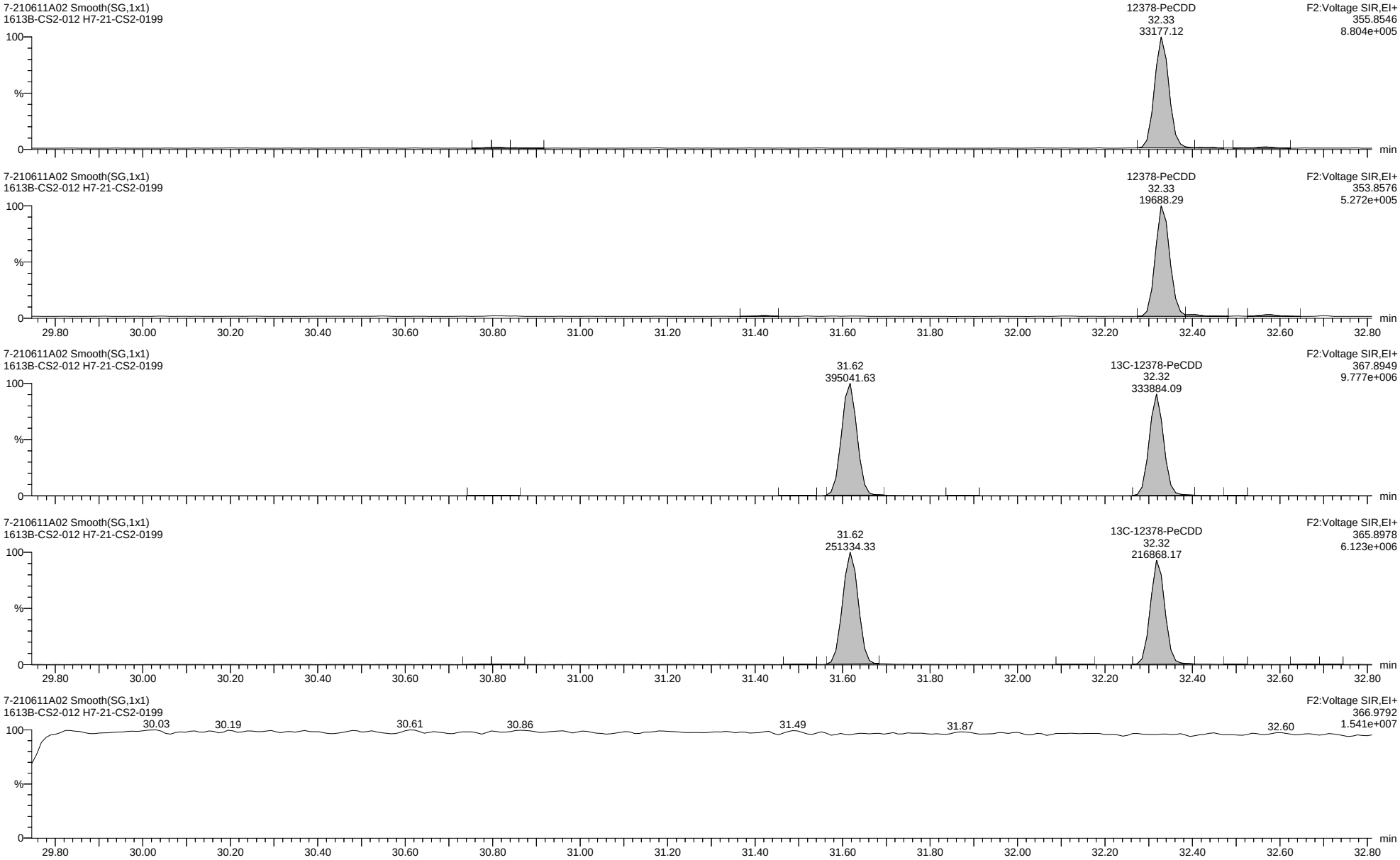
Printed: Thursday, June 17, 2021 12:13:23 Eastern Daylight Time

Method: C:\MassLynx\Dioxin.PRO\MethDB\Dioxin_1613B.mdb 08 Jun 2021 10:17:10
Calibration: C:\MassLynx\Dioxin.PRO\CurveDB\7-210611A-CAL5-1613.cdb 14 Jun 2021 09:35:05

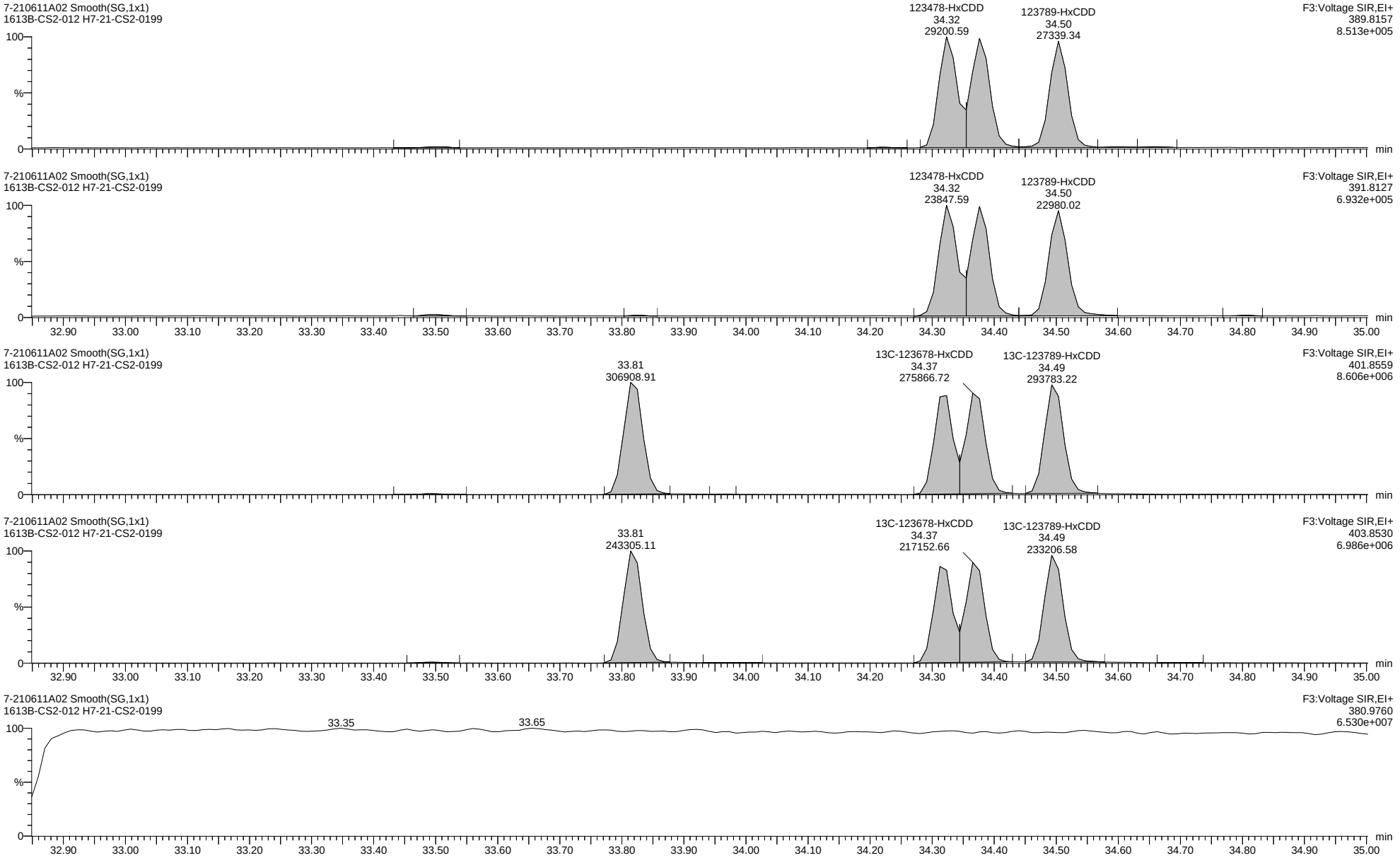
Name: 7-210611A02, Date: 11-Jun-2021, Time: 13:13:45, ID: H7-21-CS2-0199, Description: 1613B-CS2-012, Vial: Tray1:4



Name: 7-210611A02, Date: 11-Jun-2021, Time: 13:13:45, ID: H7-21-CS2-0199, Description: 1613B-CS2-012, Vial: Tray1:4



Name: 7-210611A02, Date: 11-Jun-2021, Time: 13:13:45, ID: H7-21-CS2-0199, Description: 1613B-CS2-012, Vial: Tray1:4



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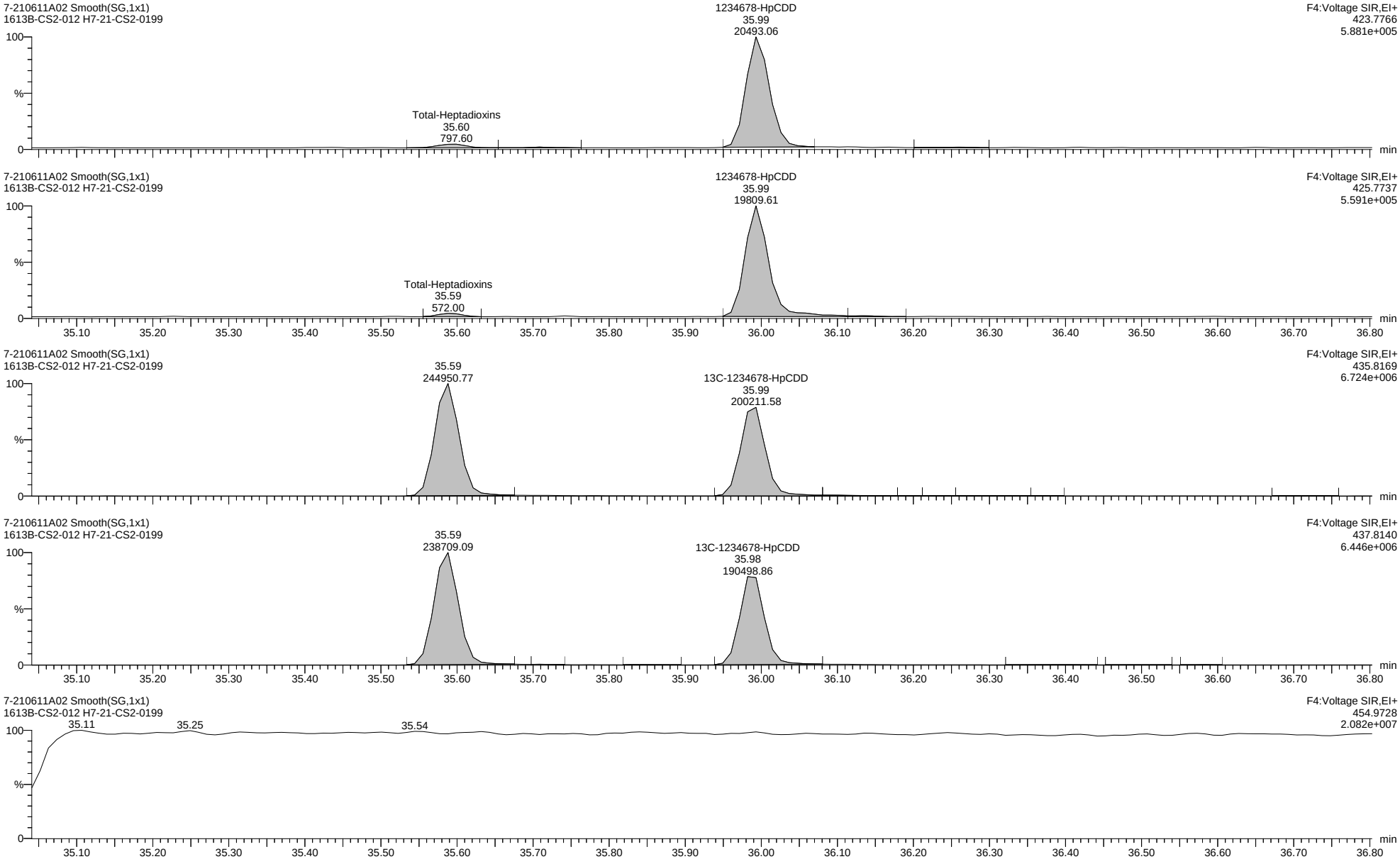

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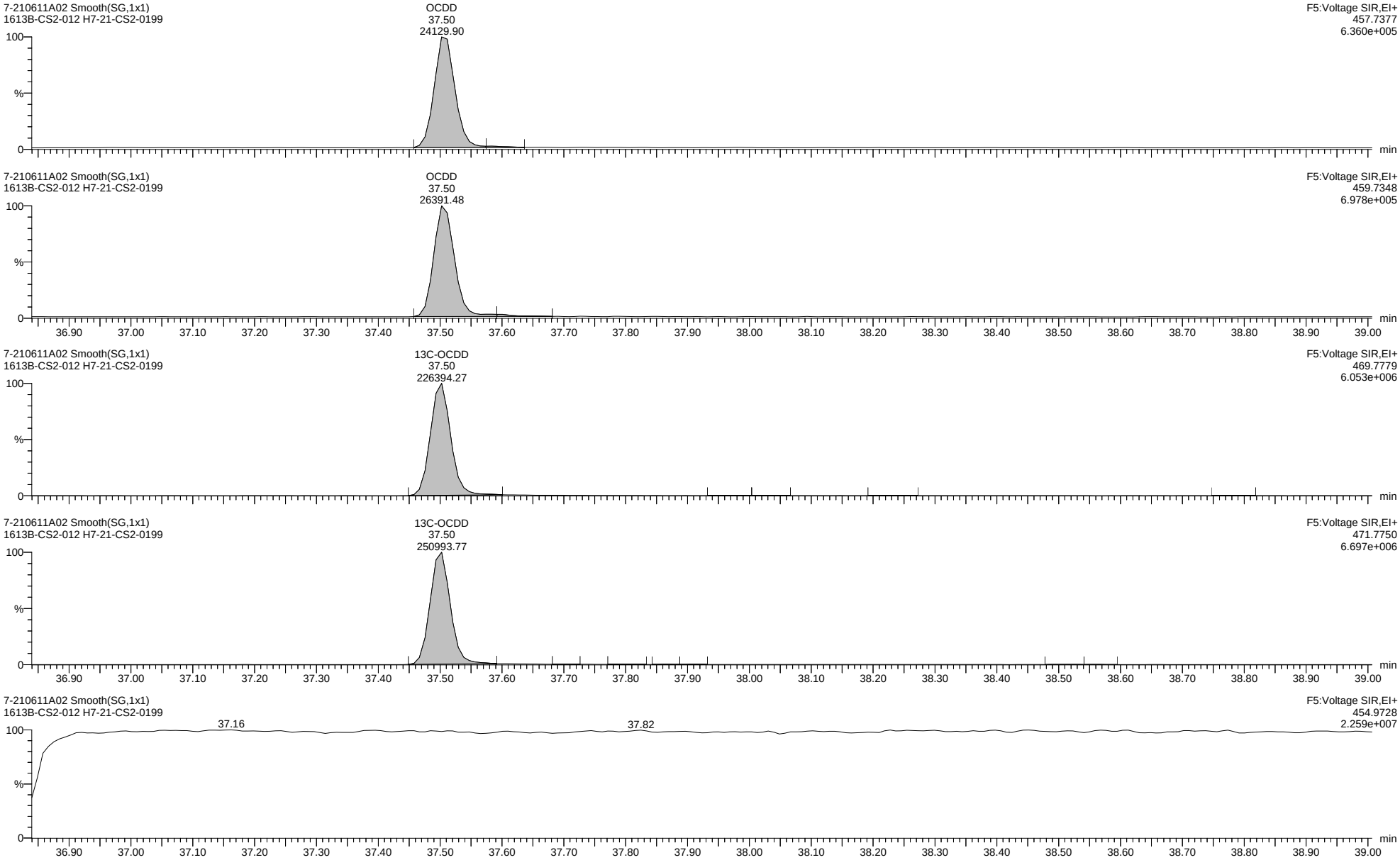

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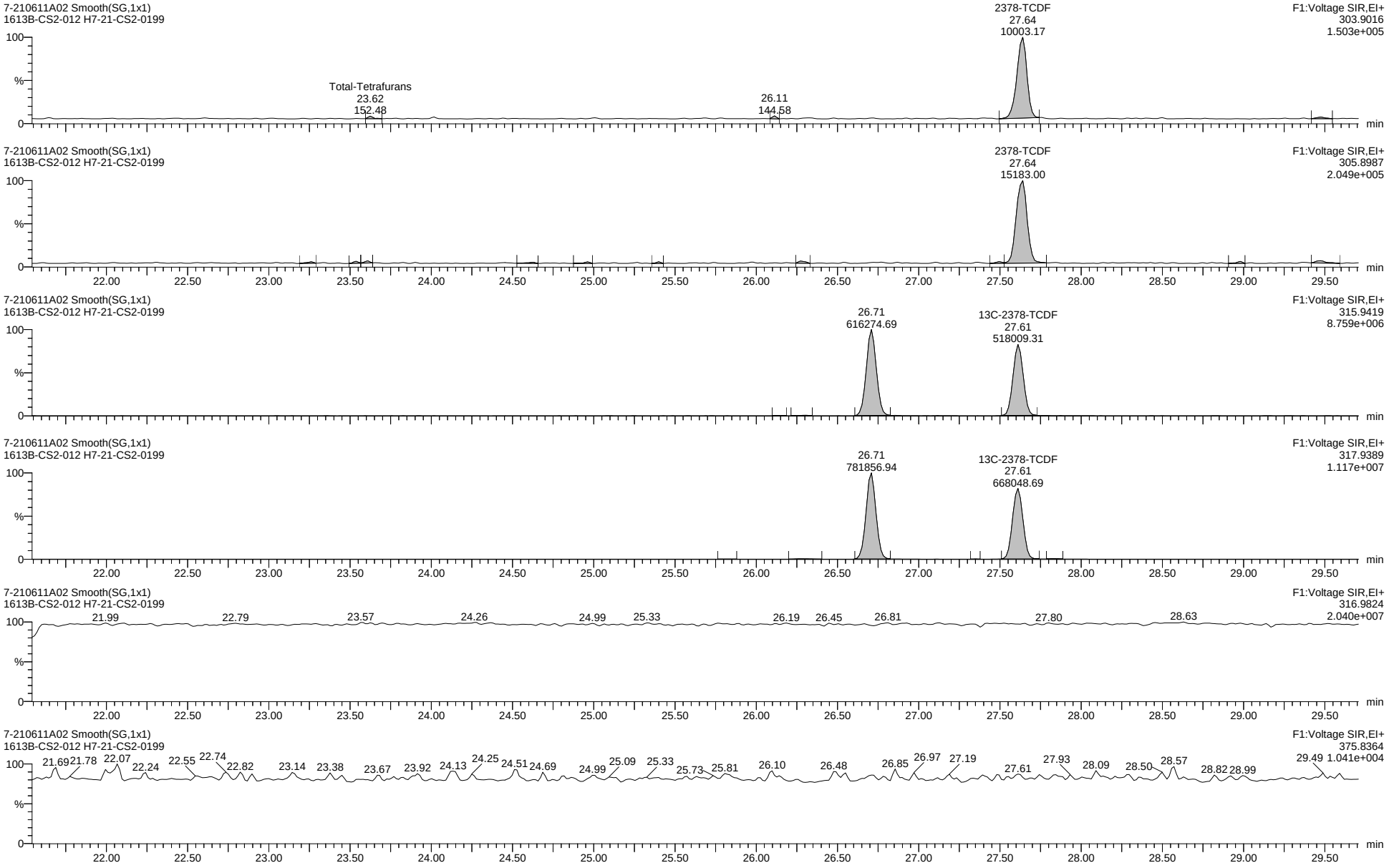

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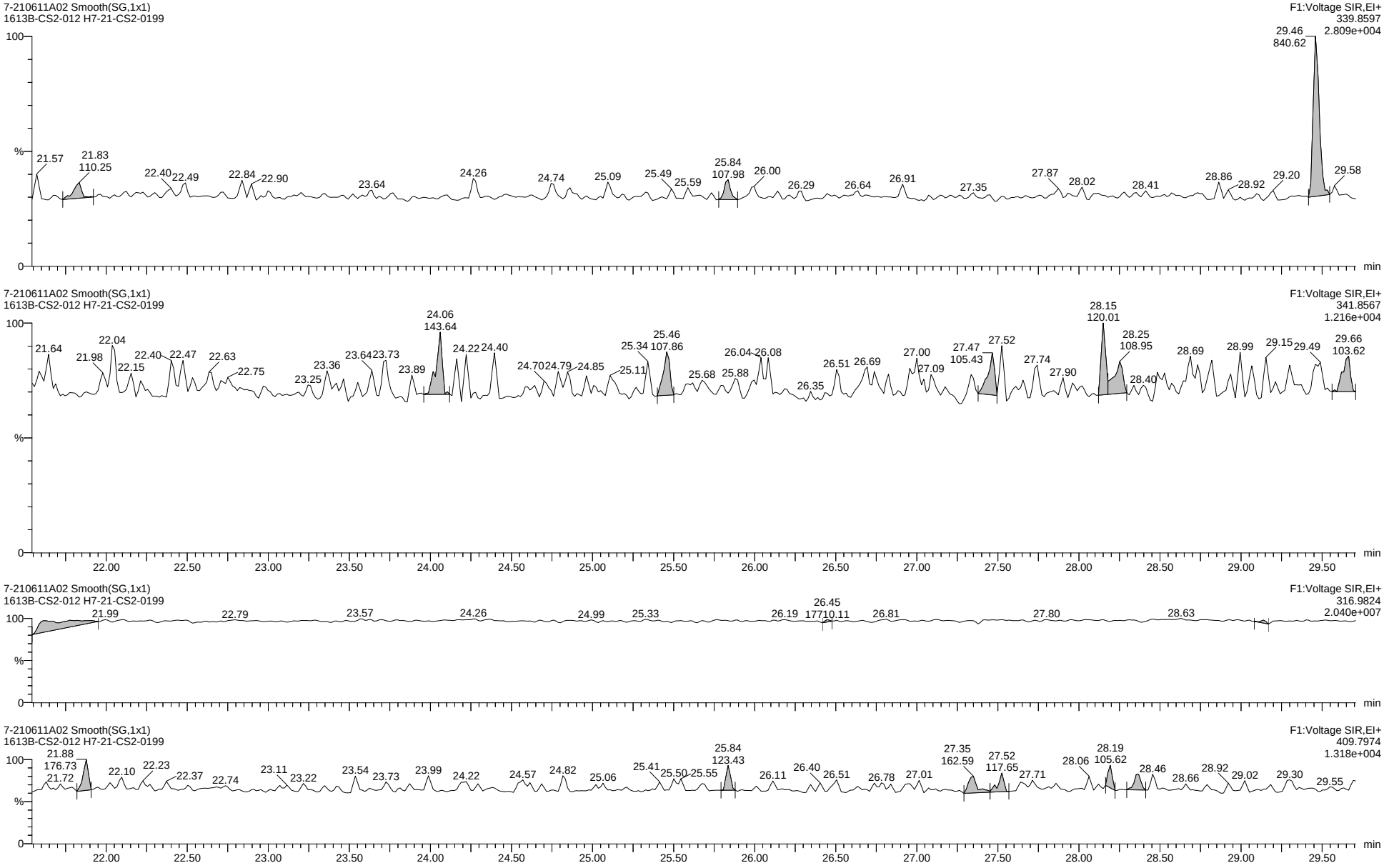

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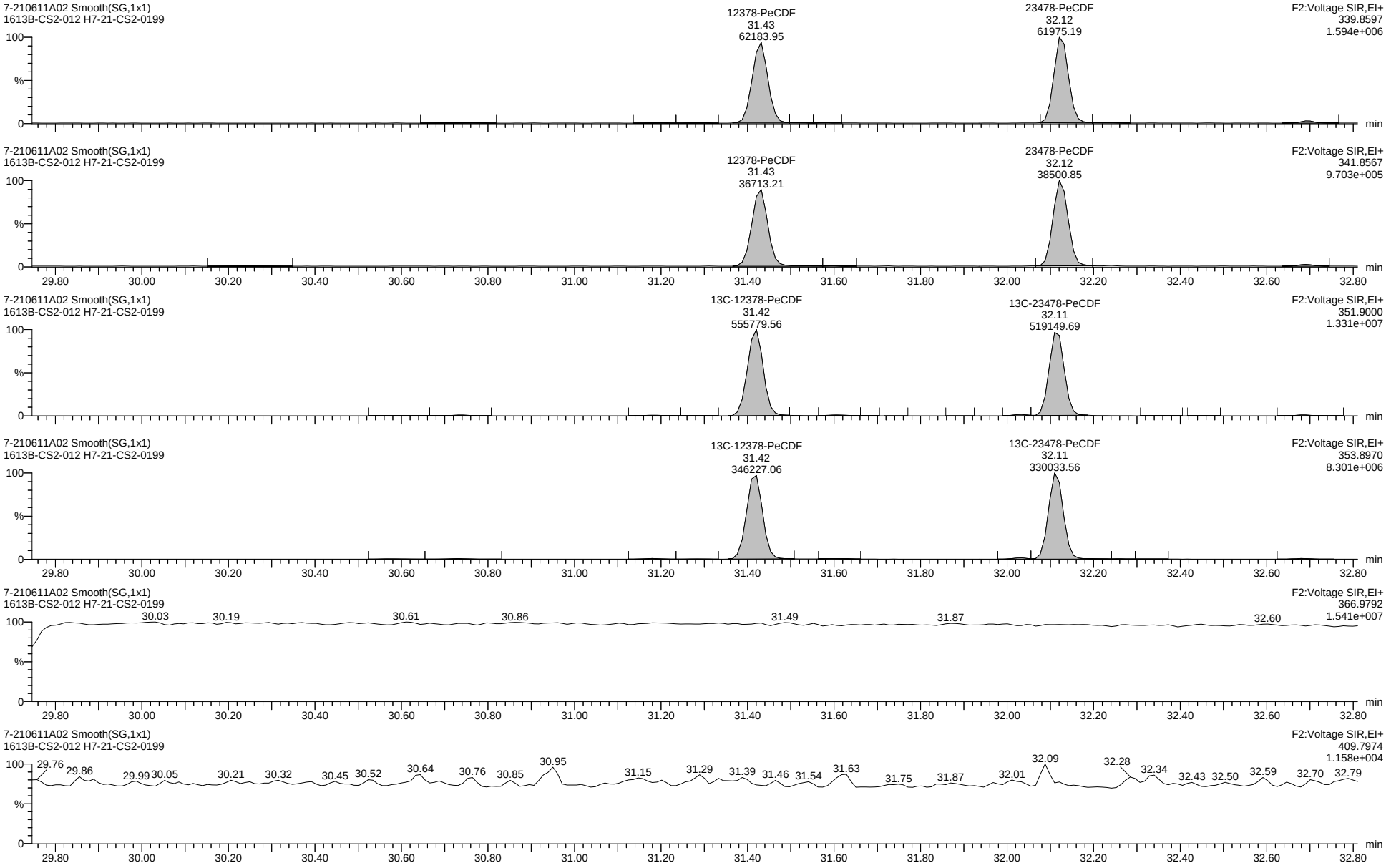

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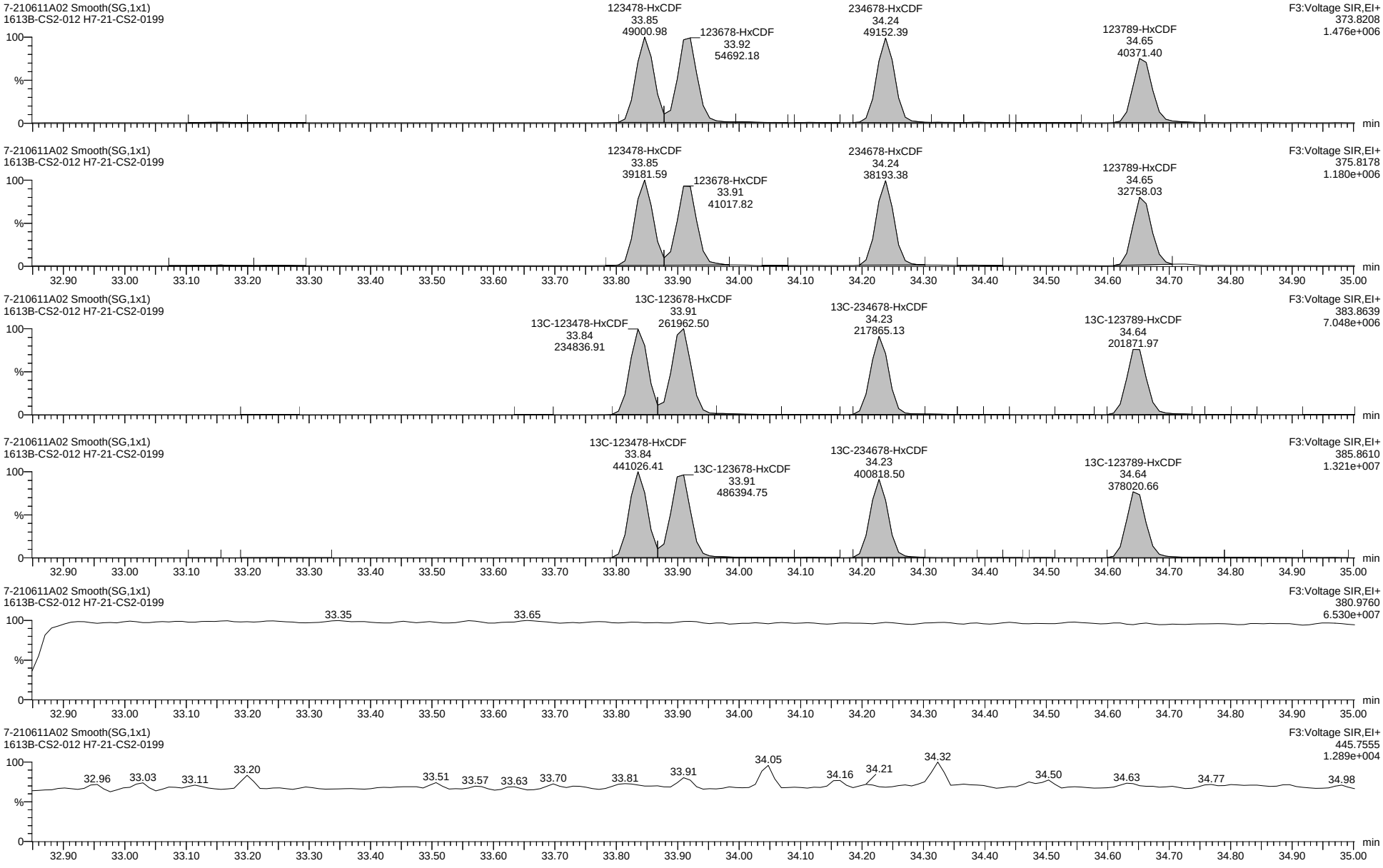

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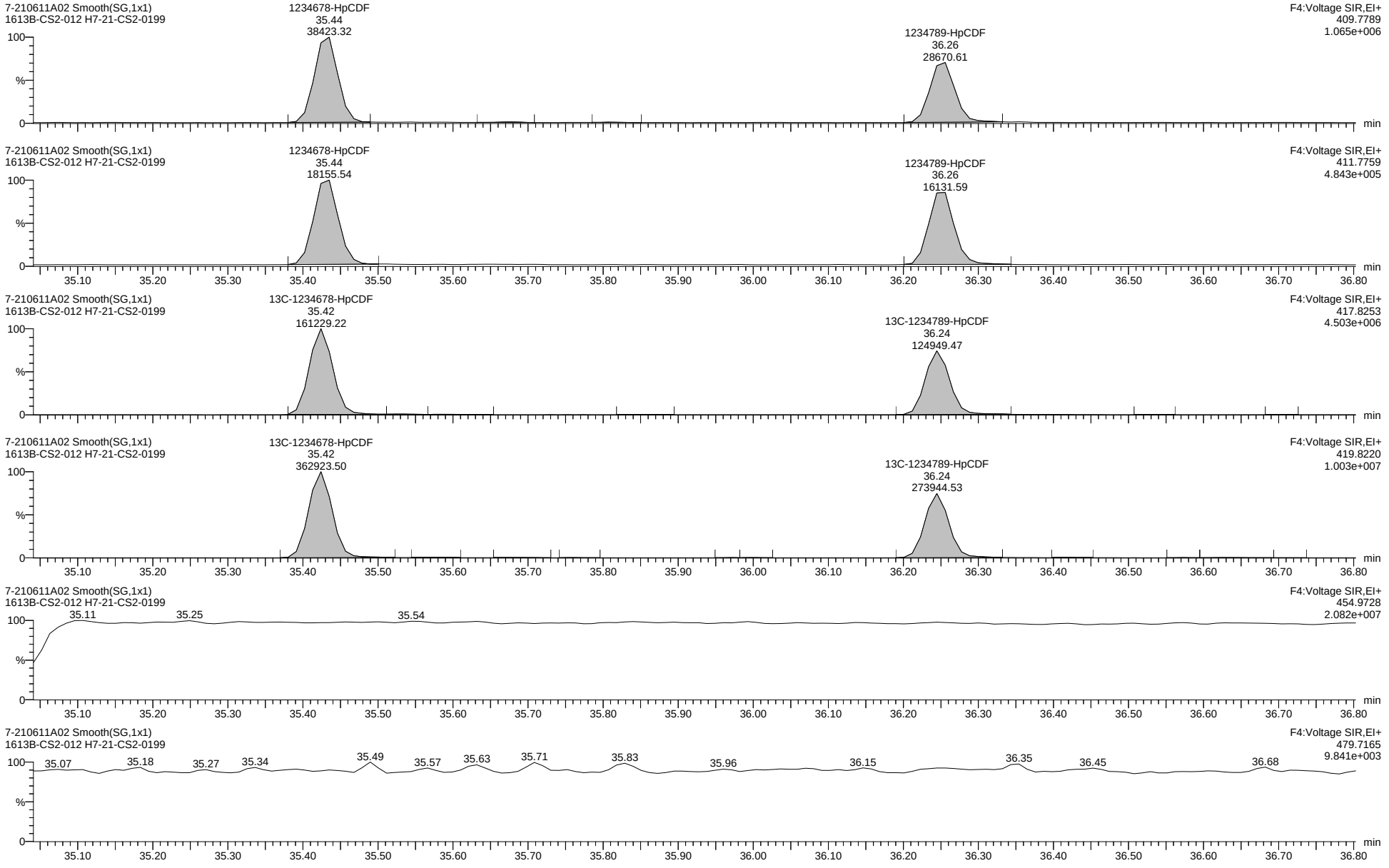

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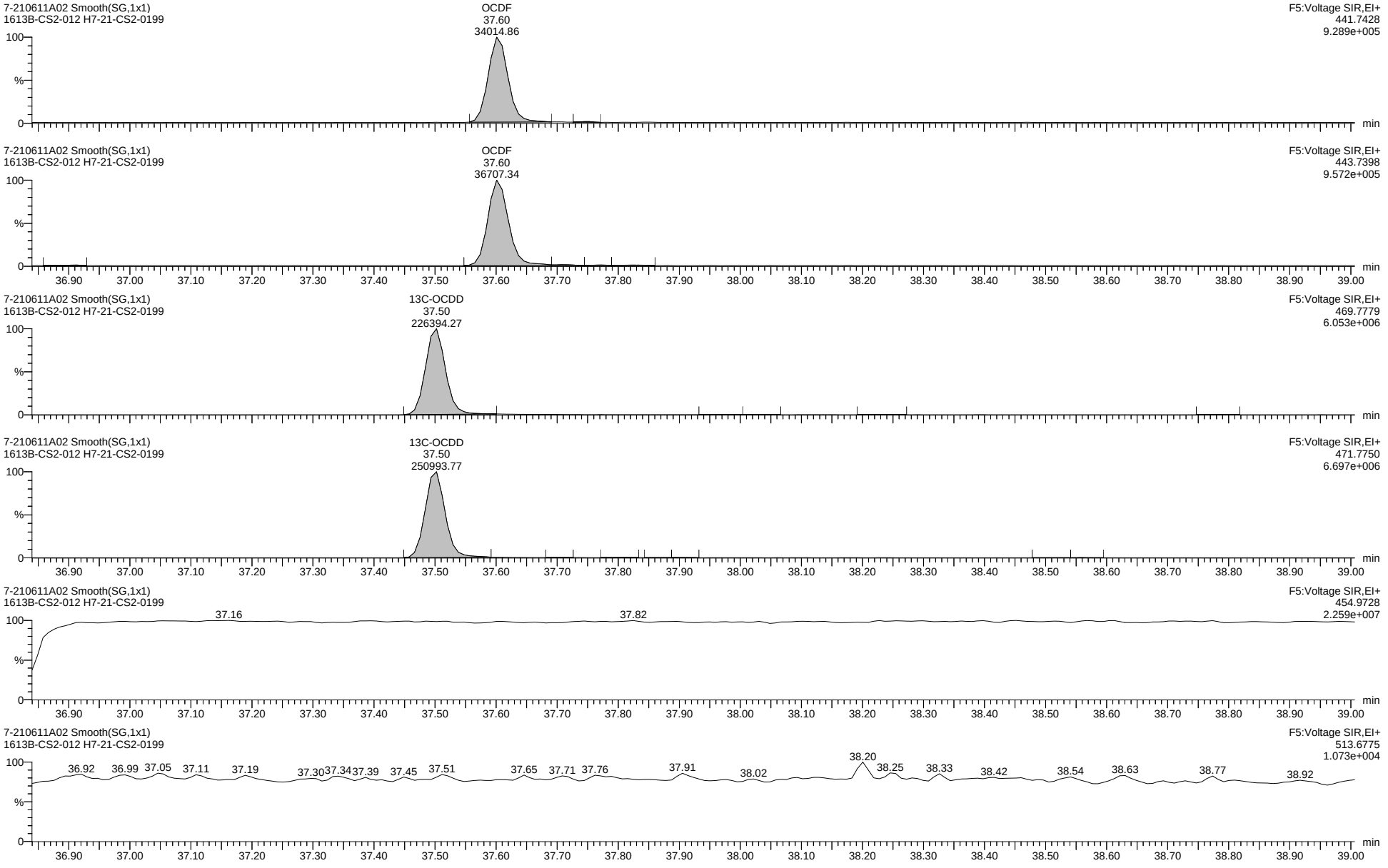

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Last Altered: Monday, June 14, 2021 09:35:05 Eastern Daylight Time
Printed: Thursday, June 17, 2021 12:13:23 Eastern Daylight Time

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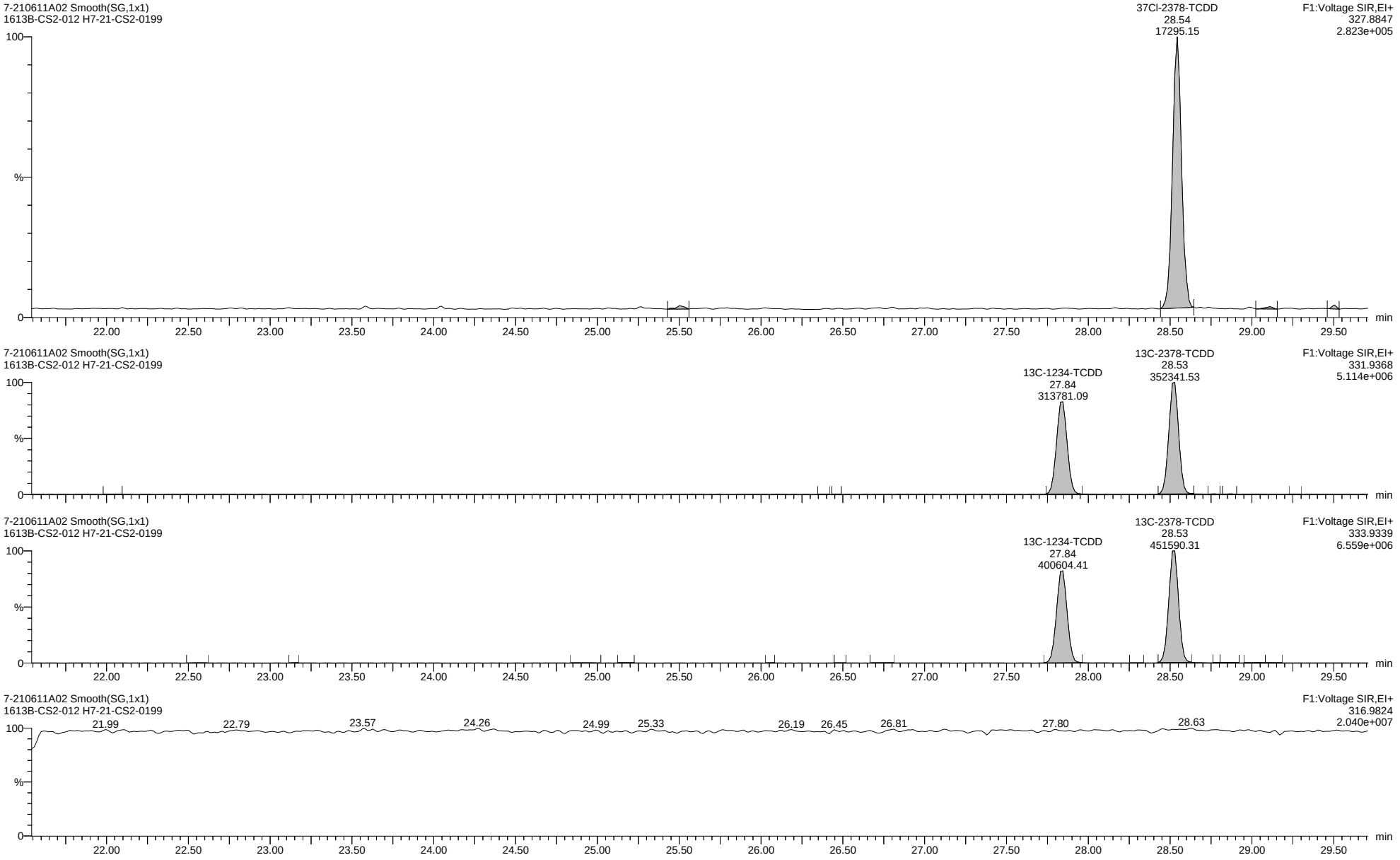

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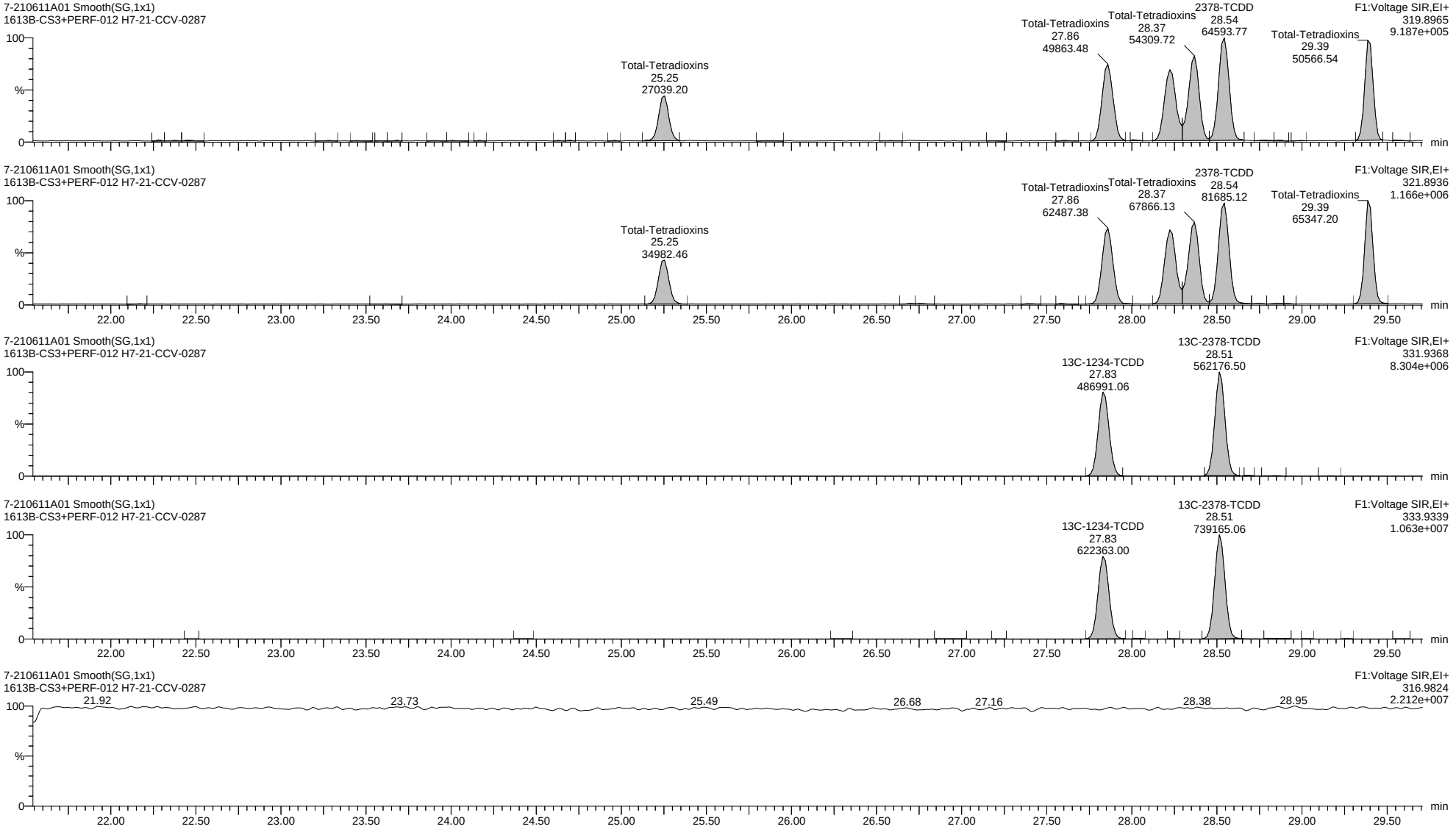
Calibration: C:\MassLynx\Dioxin.PRO\CurveDB\7-210611A-CAL5-1613.cdb 14 Jun 2021 09:35:05

Name: 7-210611A01, Date: 11-Jun-2021, Time: 12:07:42, ID: H7-21-CCV-0287, Description: 1613B-CS3+PERF-012, Vial: Tray1:1



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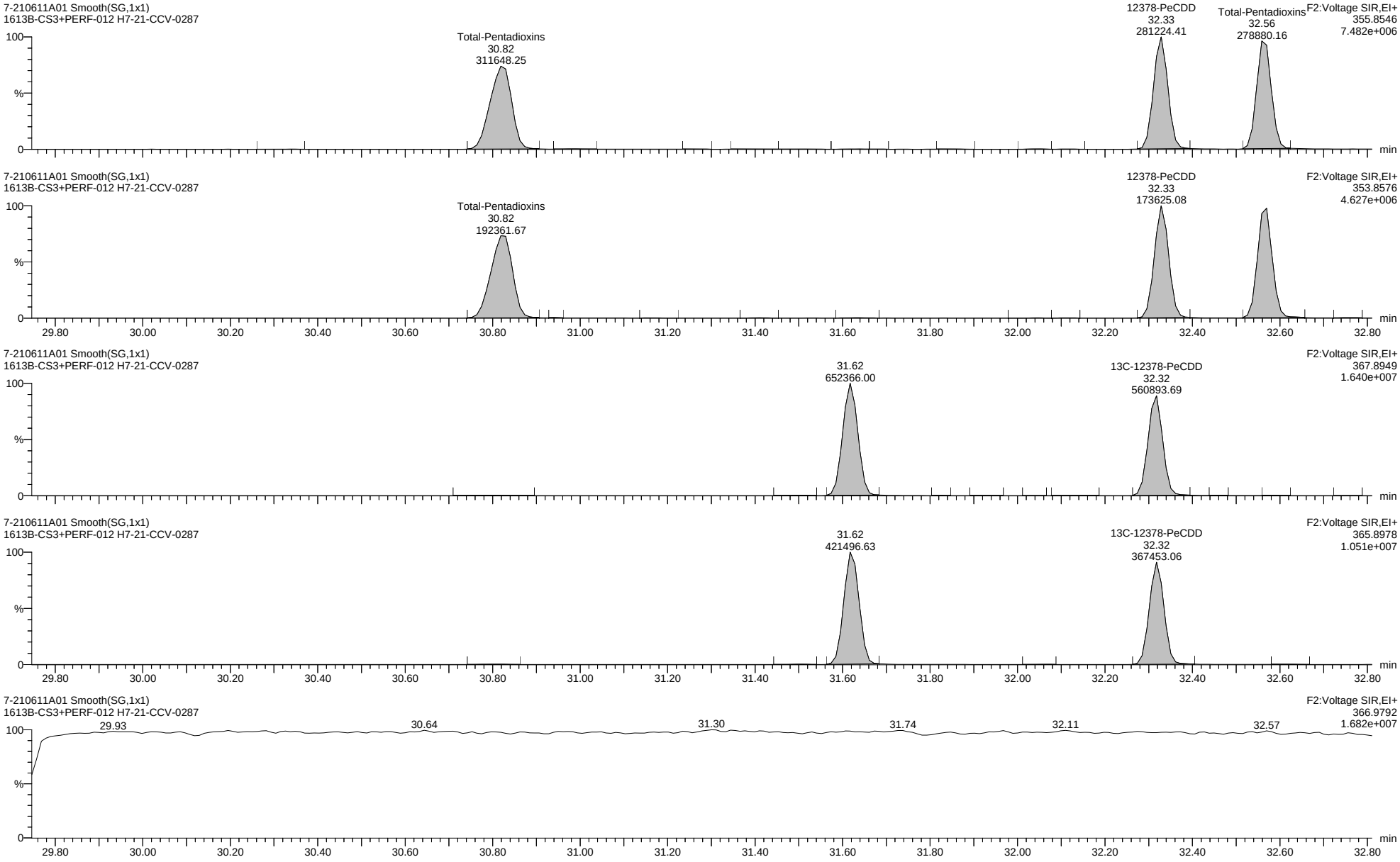

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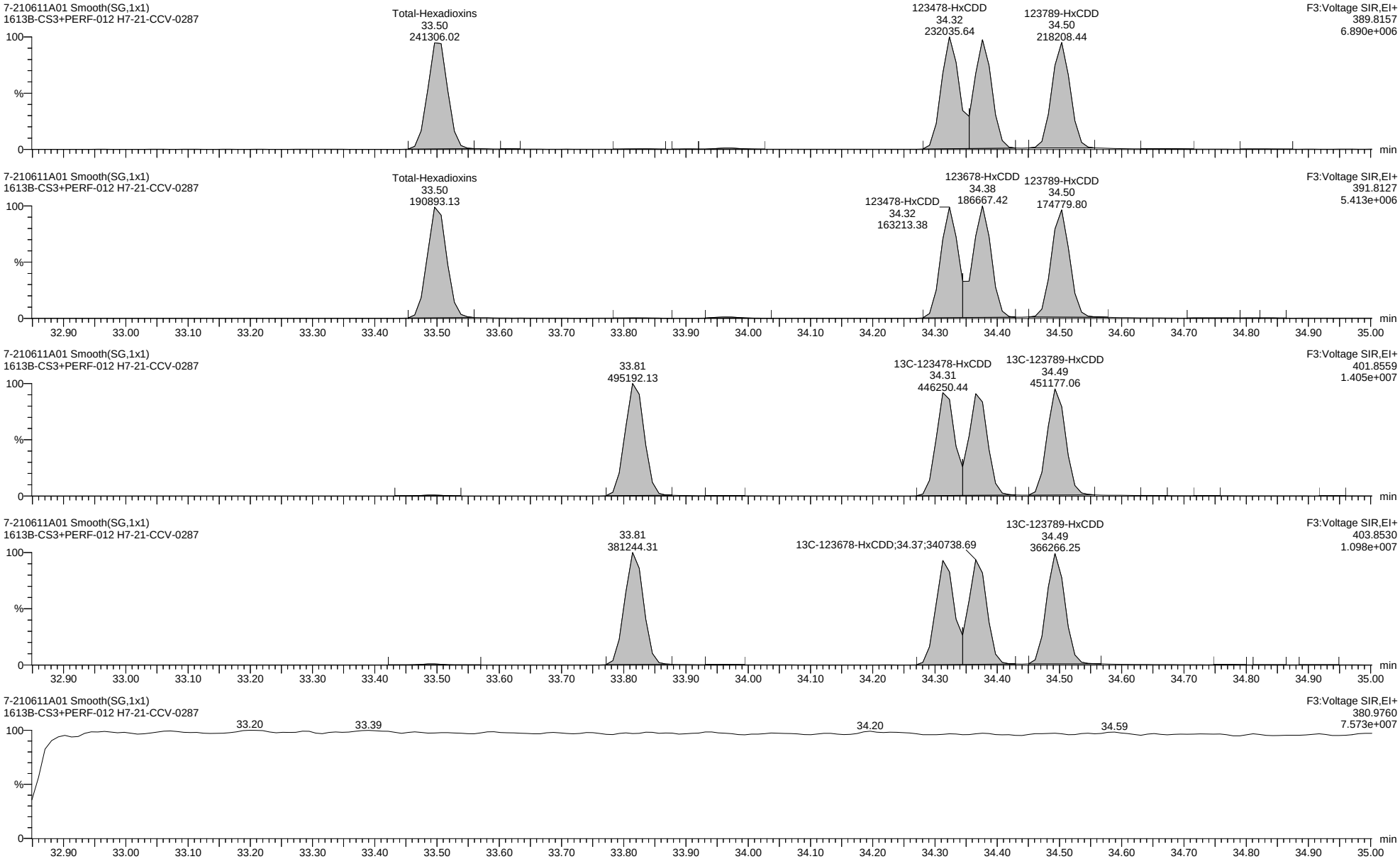

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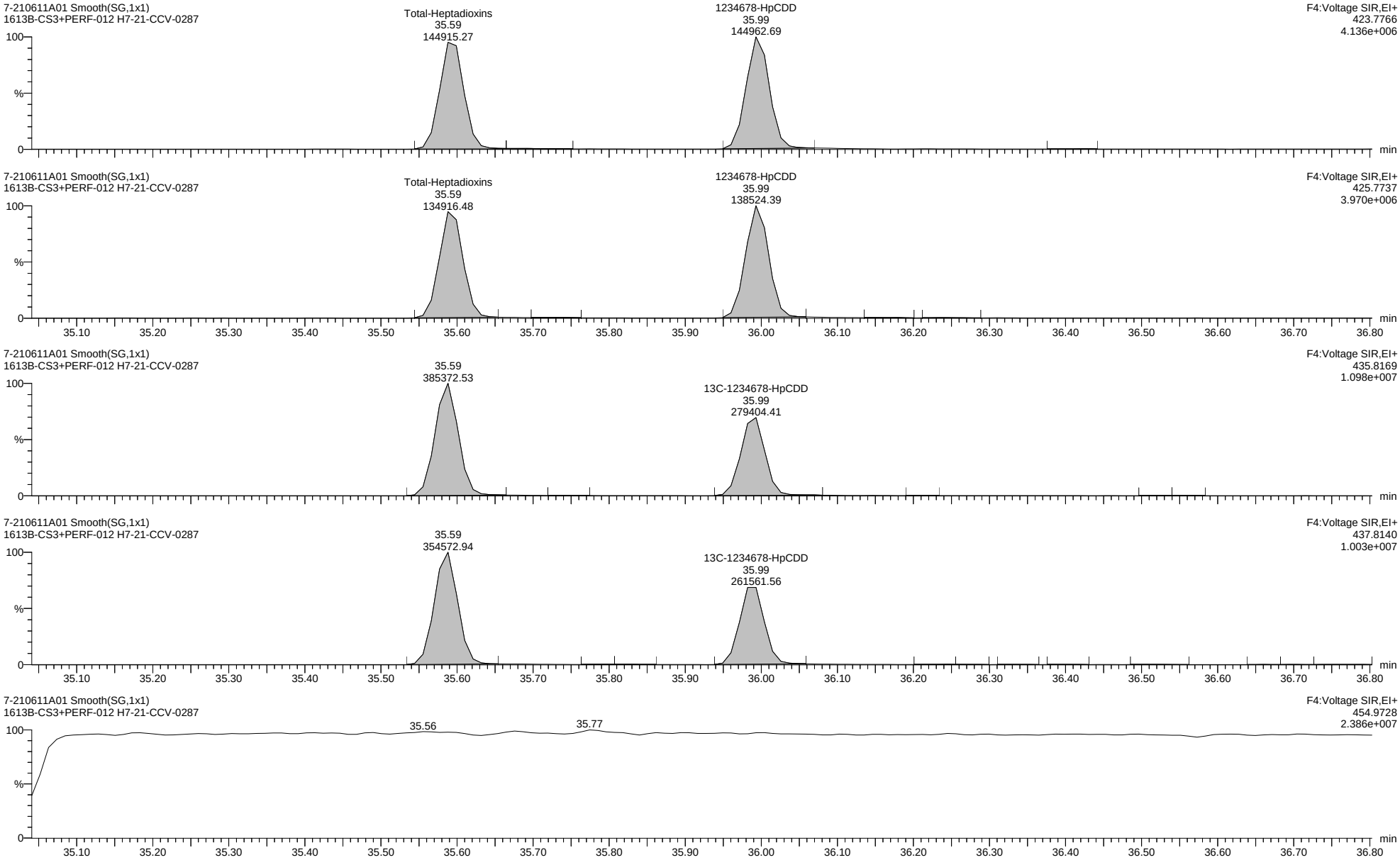
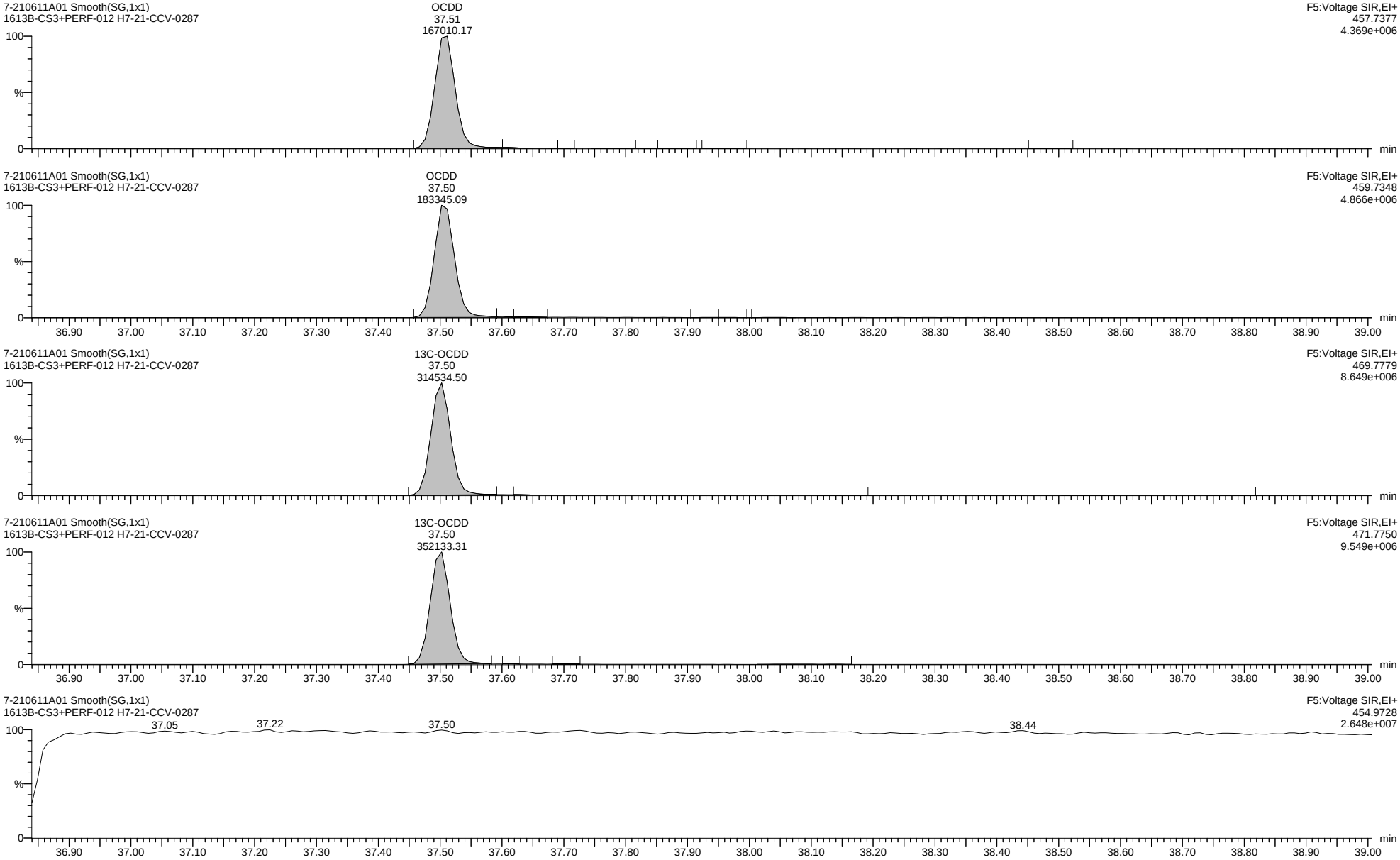
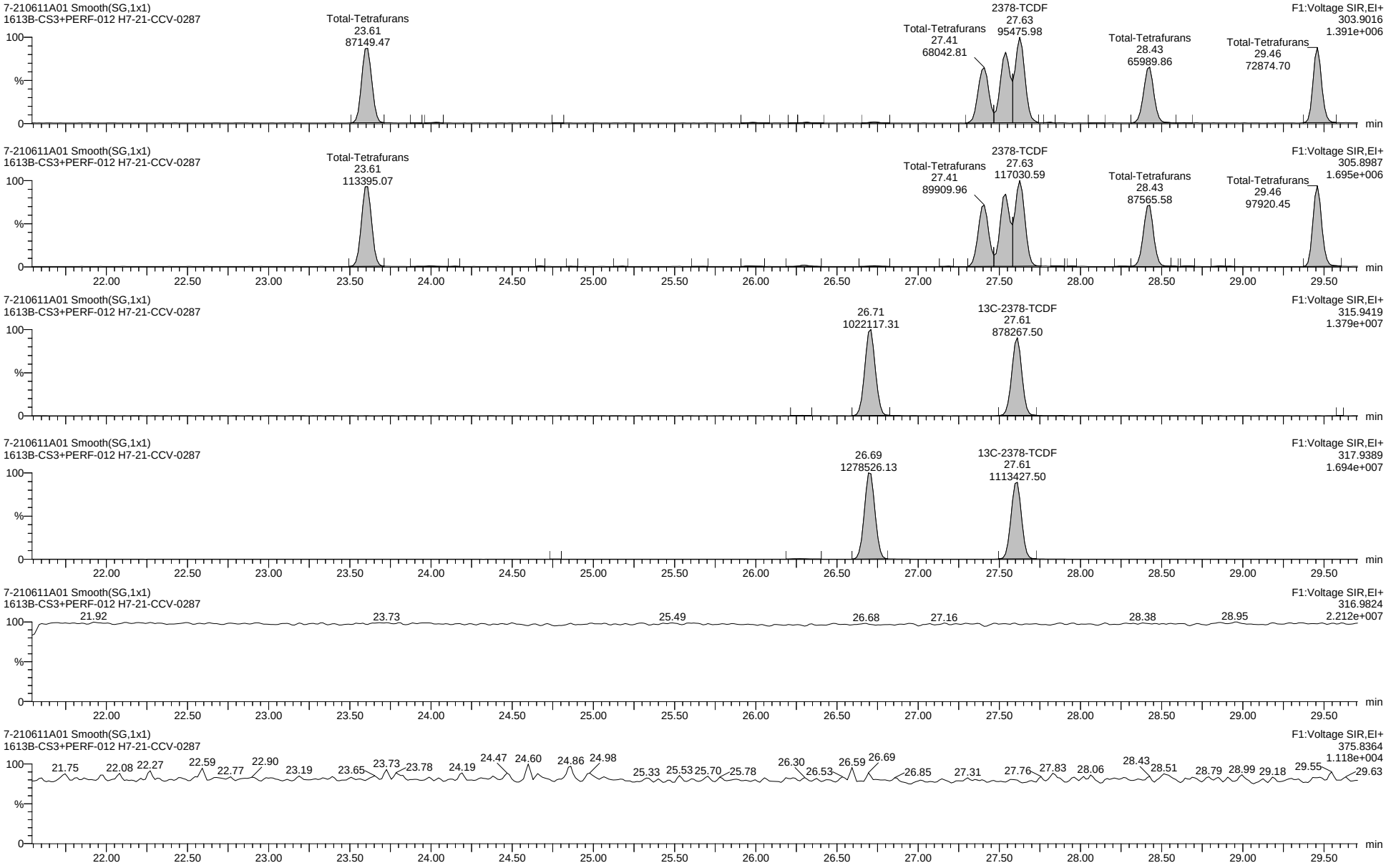


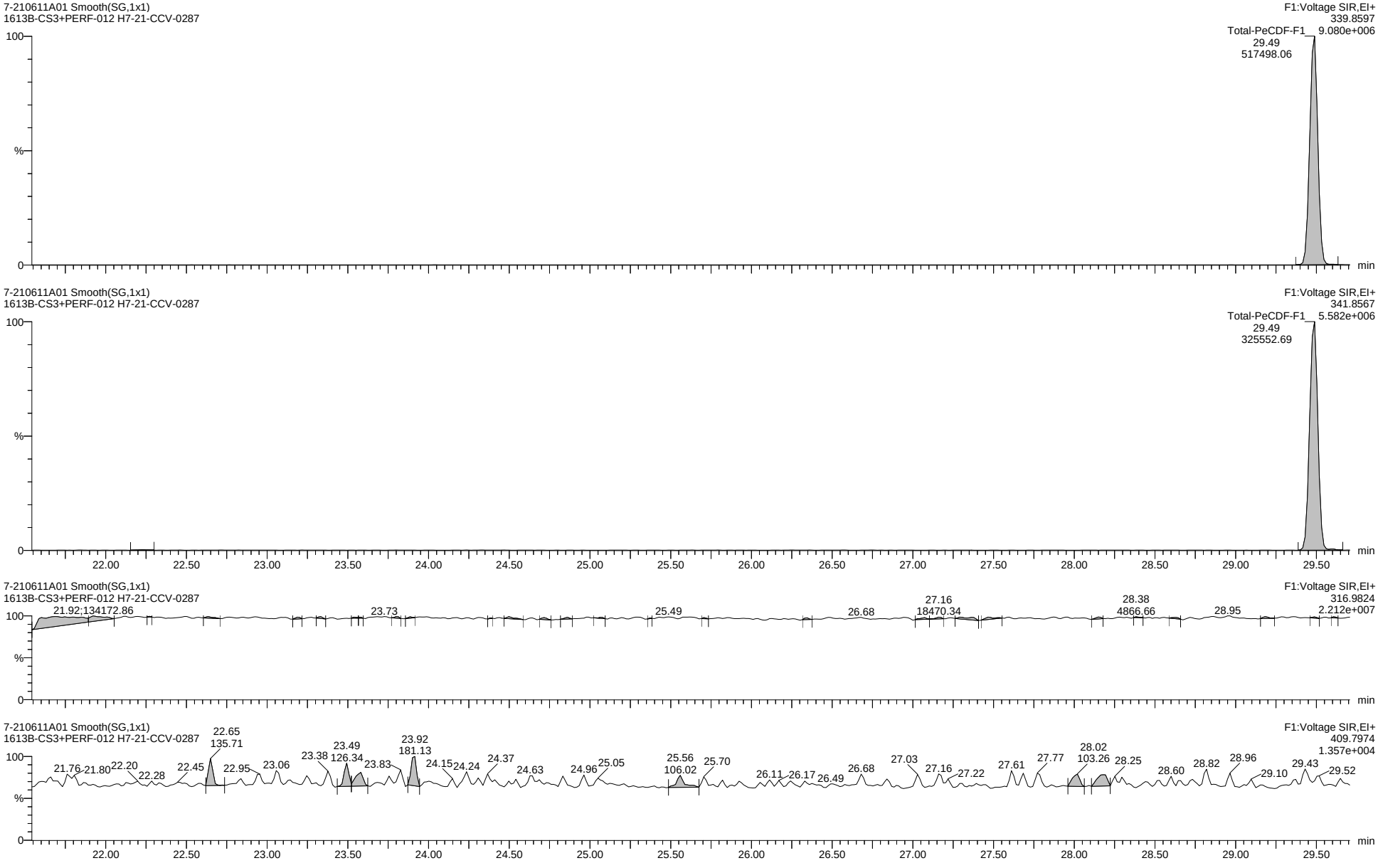
Name: 7-210611A01, Date: 11-Jun-2021, Time: 12:07:42, ID: H7-21-CCV-0287, Description: 1613B-CS3+PERF-012, Vial: Tray1:1



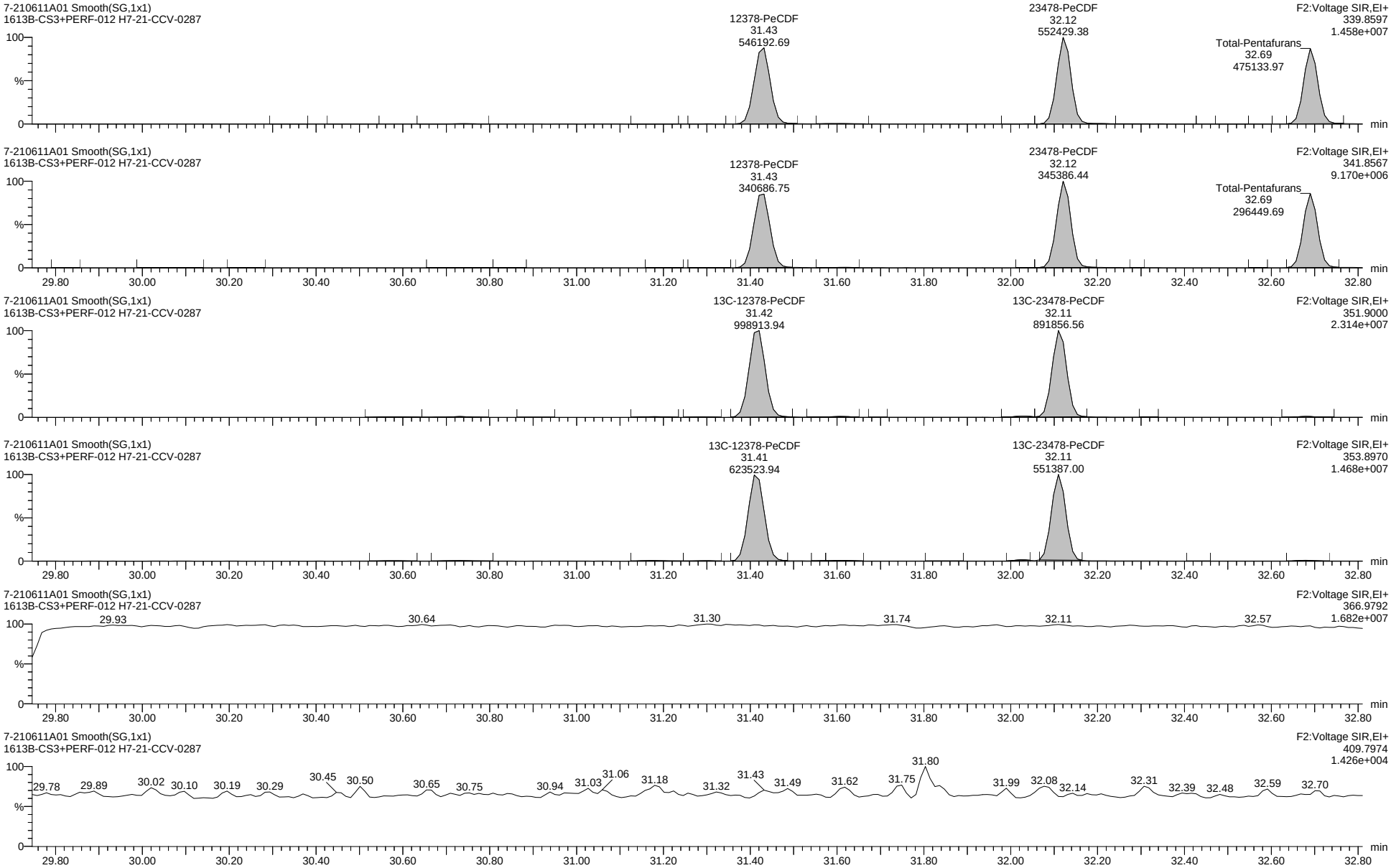
Name: 7-210611A01, Date: 11-Jun-2021, Time: 12:07:42, ID: H7-21-CCV-0287, Description: 1613B-CS3+PERF-012, Vial: Tray1:1



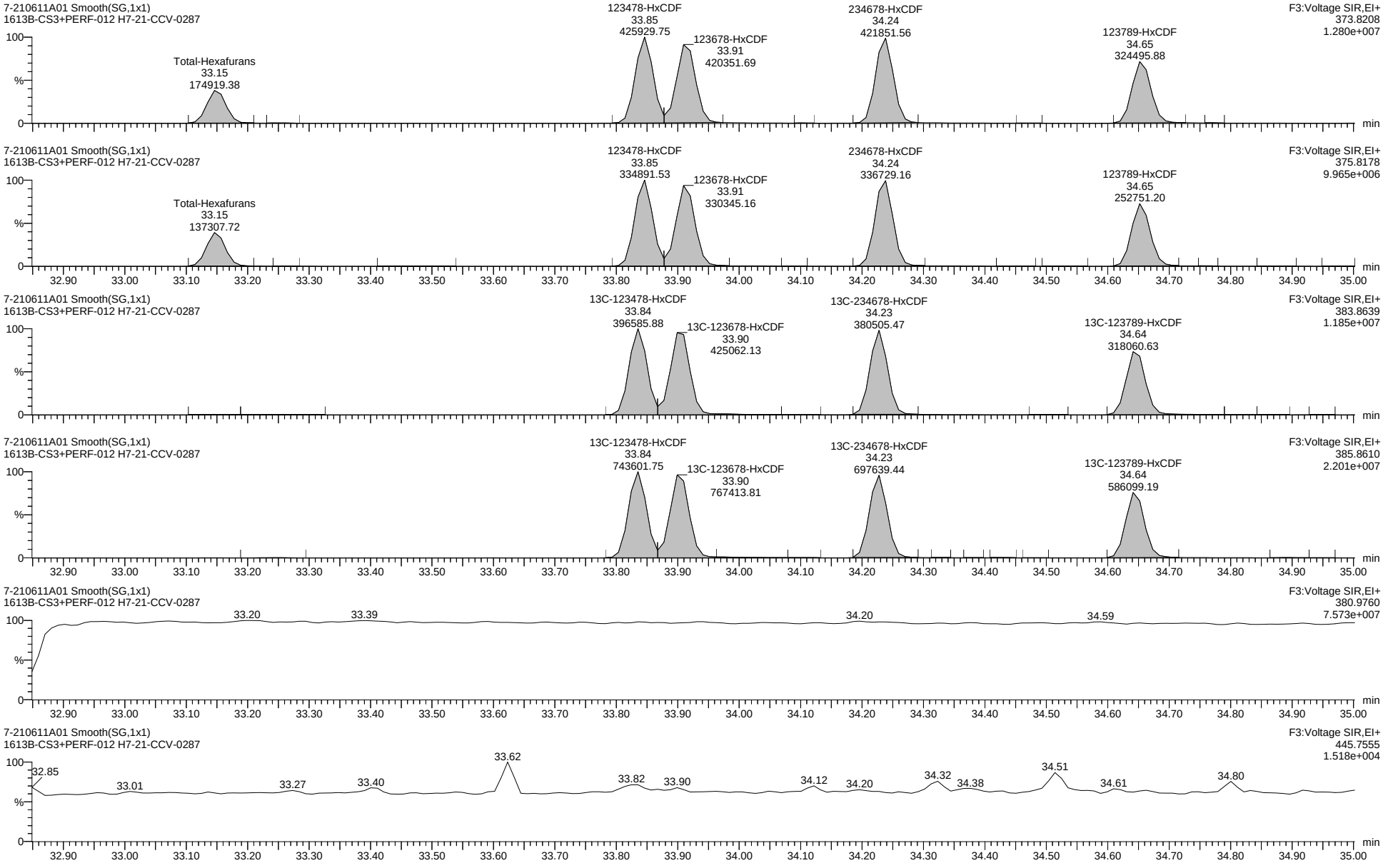
Name: 7-210611A01, Date: 11-Jun-2021, Time: 12:07:42, ID: H7-21-CCV-0287, Description: 1613B-CS3+PERF-012, Vial: Tray1:1



Name: 7-210611A01, Date: 11-Jun-2021, Time: 12:07:42, ID: H7-21-CCV-0287, Description: 1613B-CS3+PERF-012, Vial: Tray1:1



Name: 7-210611A01, Date: 11-Jun-2021, Time: 12:07:42, ID: H7-21-CCV-0287, Description: 1613B-CS3+PERF-012, Vial: Tray1:1

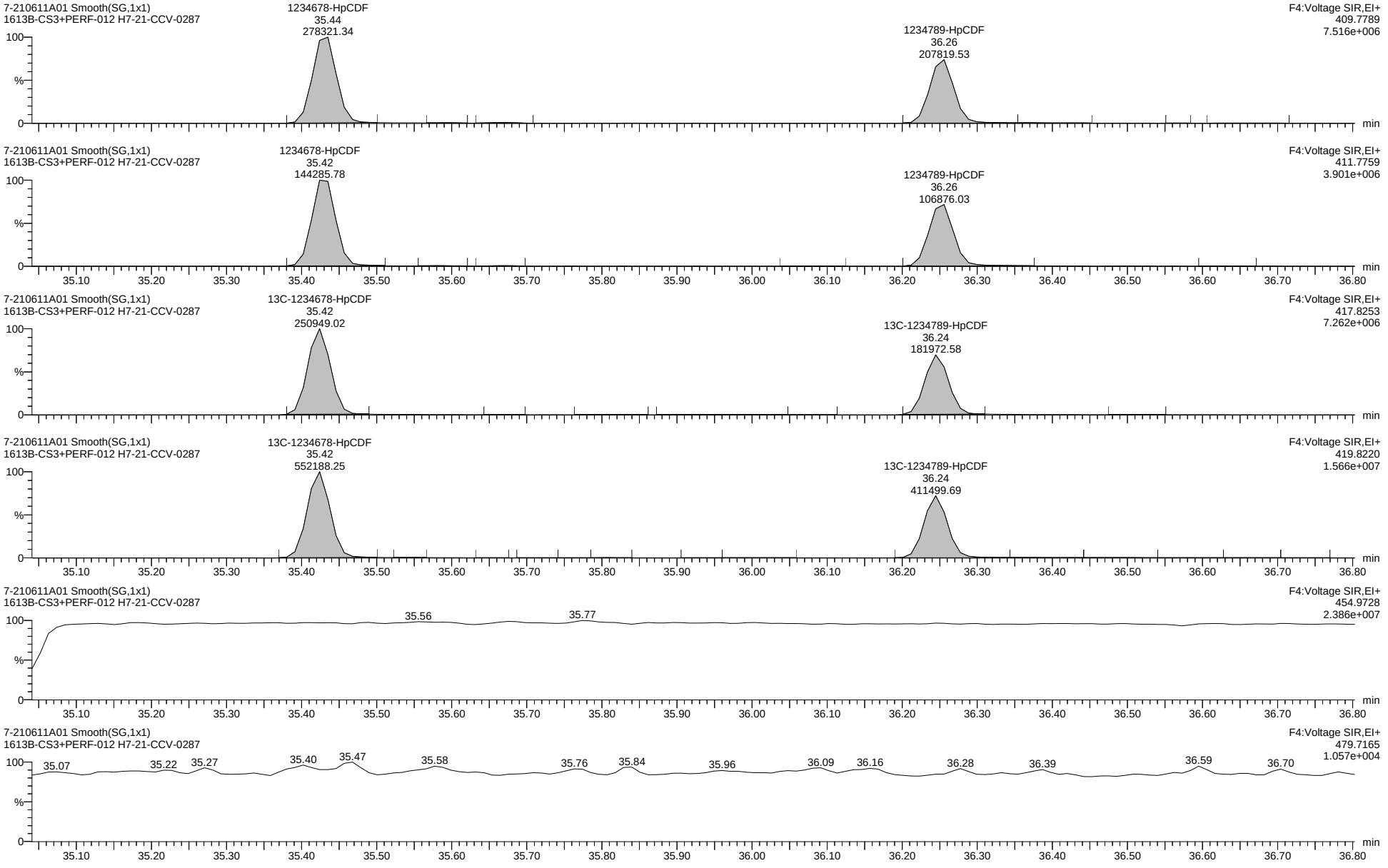


Quantify Sample Template Report **MassLynx MassLynx V4.1 SCN 901**

Dataset: I:\Organics Instrument\HIGHRES GCMS Completed Results Files\HR-7\7-210611A-ICAL-1613.qld

Last Altered: Monday, June 14, 2021 09:35:05 Eastern Daylight Time
Printed: Thursday, June 17, 2021 12:13:23 Eastern Daylight Time

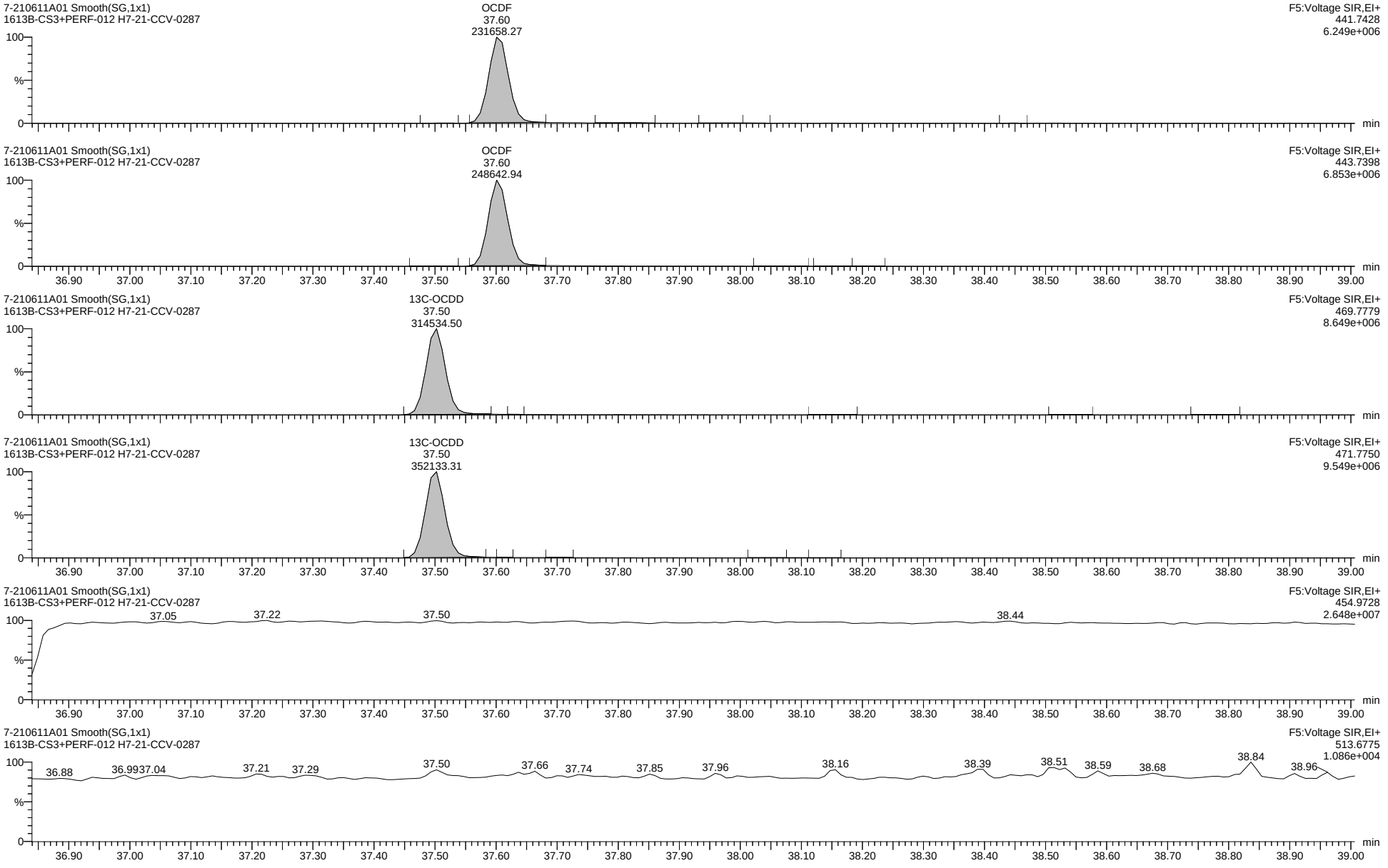
Name: 7-210611A01, Date: 11-Jun-2021, Time: 12:07:42, ID: H7-21-CCV-0287, Description: 1613B-CS3+PERF-012, Vial: Tray1:1



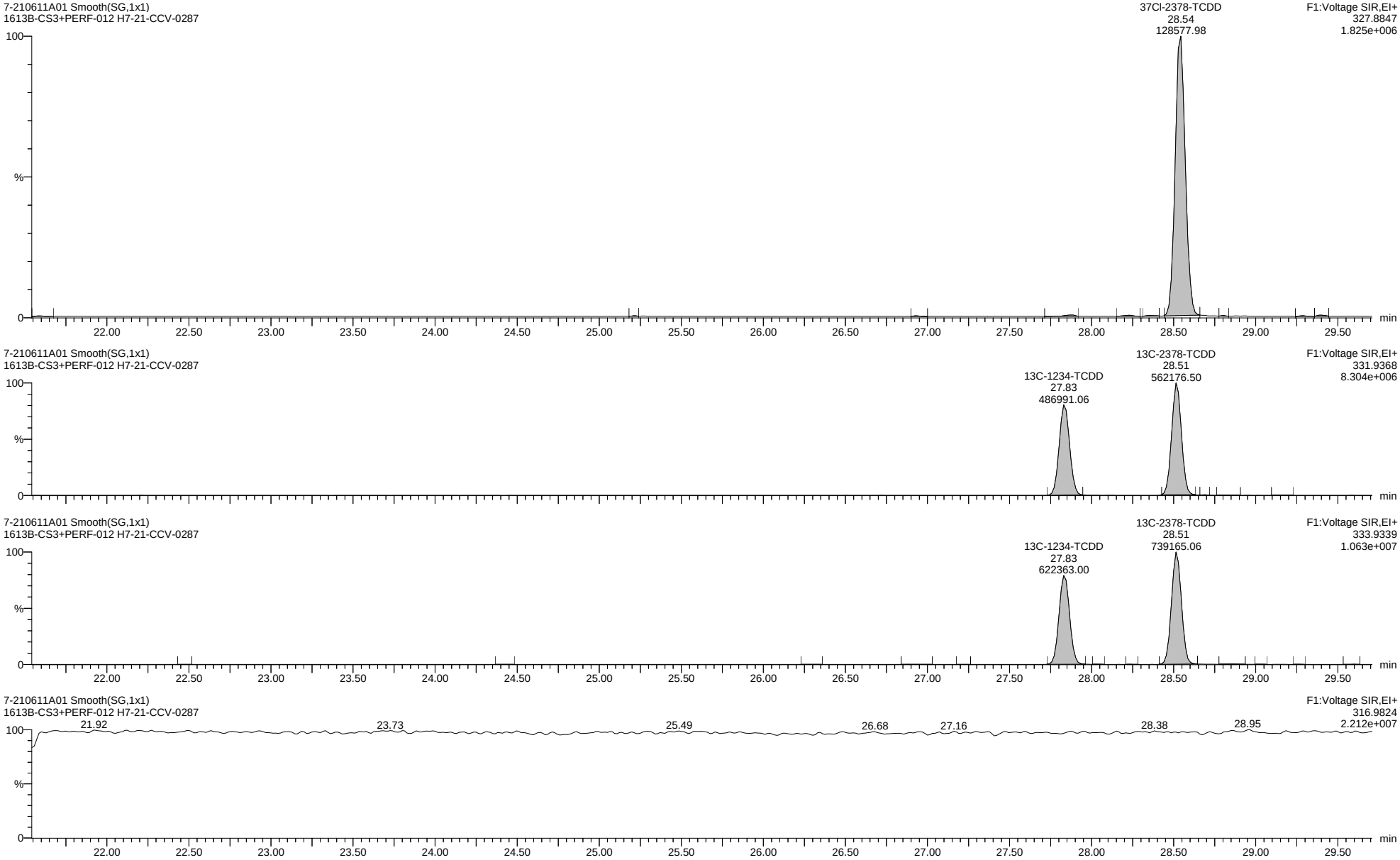
Dataset: I:\Organics Instrument\HIGHRES GCMS Completed Results Files\HR-7\7-210611A-ICAL-1613.qld

Last Altered: Monday, June 14, 2021 09:35:05 Eastern Daylight Time
Printed: Thursday, June 17, 2021 12:13:23 Eastern Daylight Time

Name: 7-210611A01, Date: 11-Jun-2021, Time: 12:07:42, ID: H7-21-CCV-0287, Description: 1613B-CS3+PERF-012, Vial: Tray1:1



Name: 7-210611A01, Date: 11-Jun-2021, Time: 12:07:42, ID: H7-21-CCV-0287, Description: 1613B-CS3+PERF-012, Vial: Tray1:1



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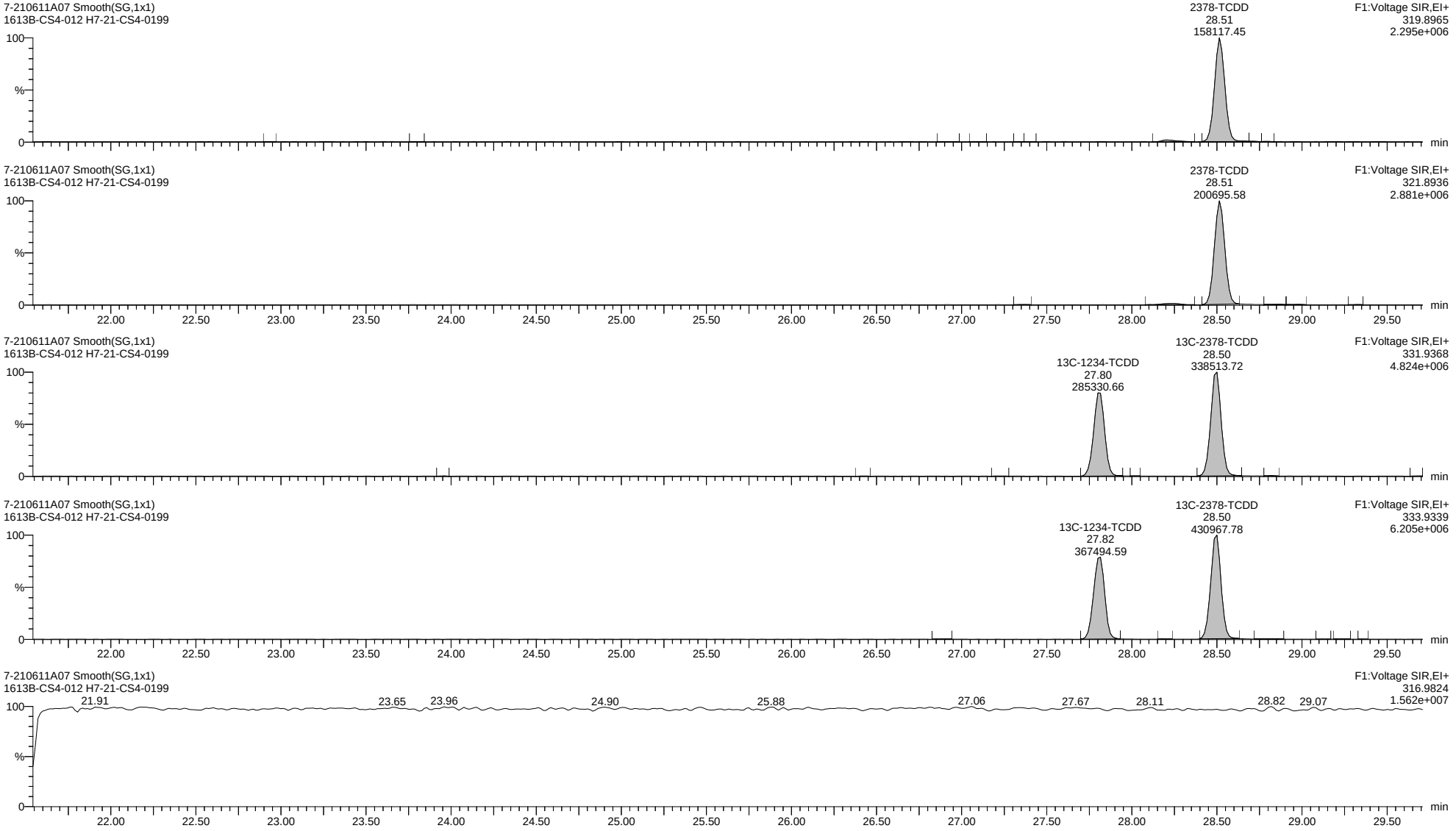
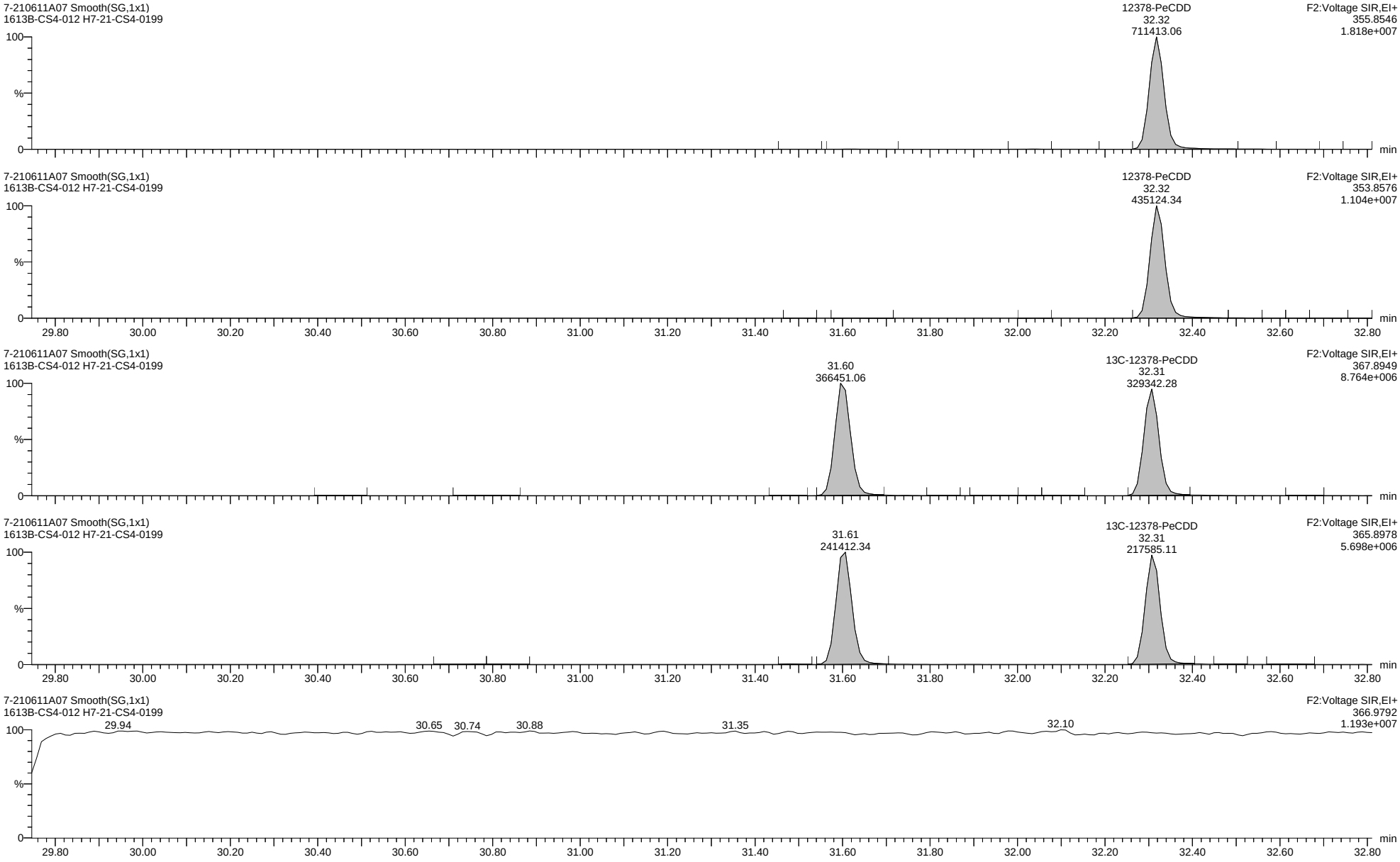
Calibration: C:\MassLynx\Dioxin.PRO\CurveDB\7-210611A-CAL5-1613.cdb 14 Jun 2021 09:35:05

Name: 7-210611A07, Date: 11-Jun-2021, Time: 16:48:17, ID: H7-21-CS4-0199, Description: 1613B-CS4-012, Vial: Tray1:9



Name: 7-210611A07, Date: 11-Jun-2021, Time: 16:48:17, ID: H7-21-CS4-0199, Description: 1613B-CS4-012, Vial: Tray1:9



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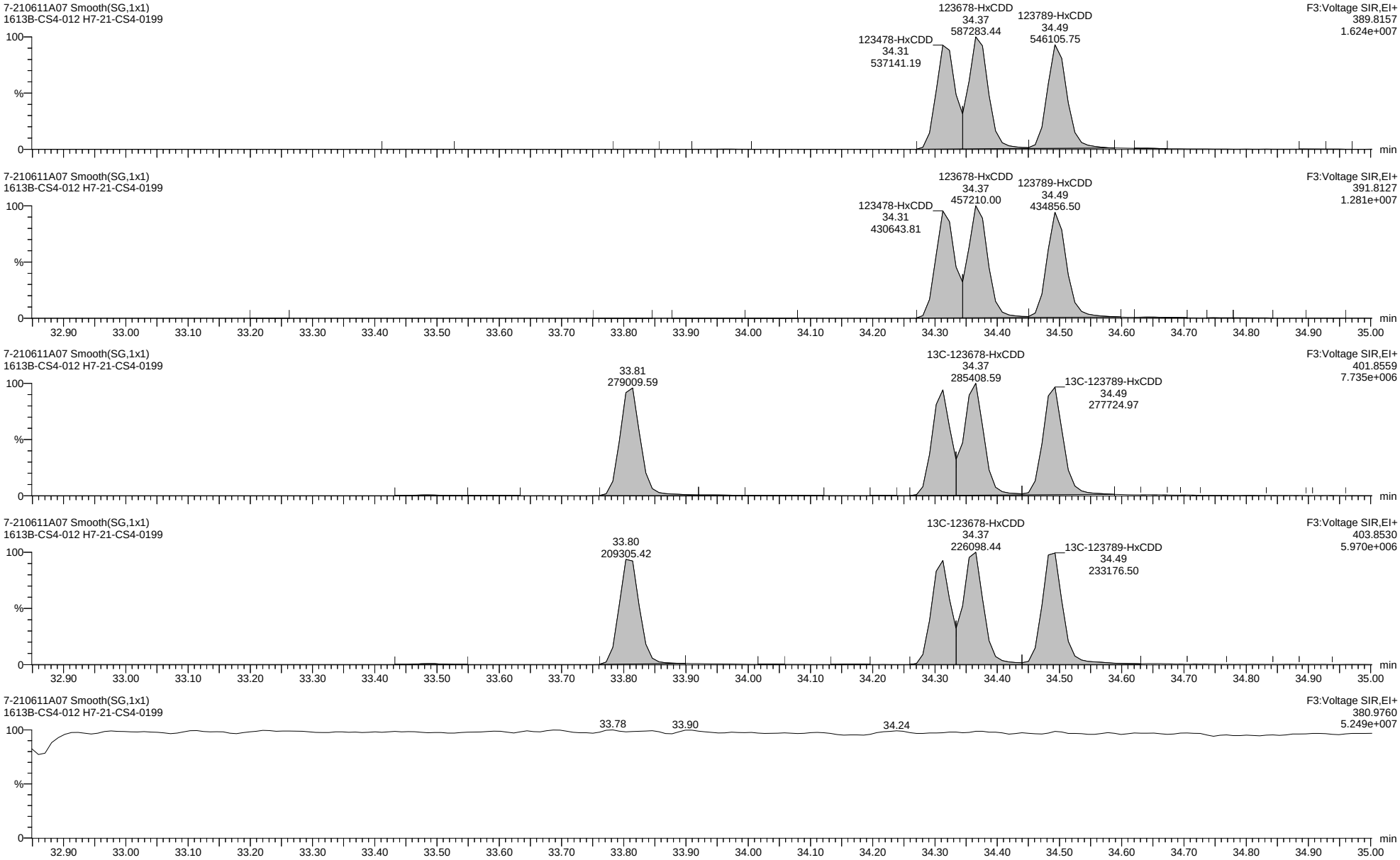

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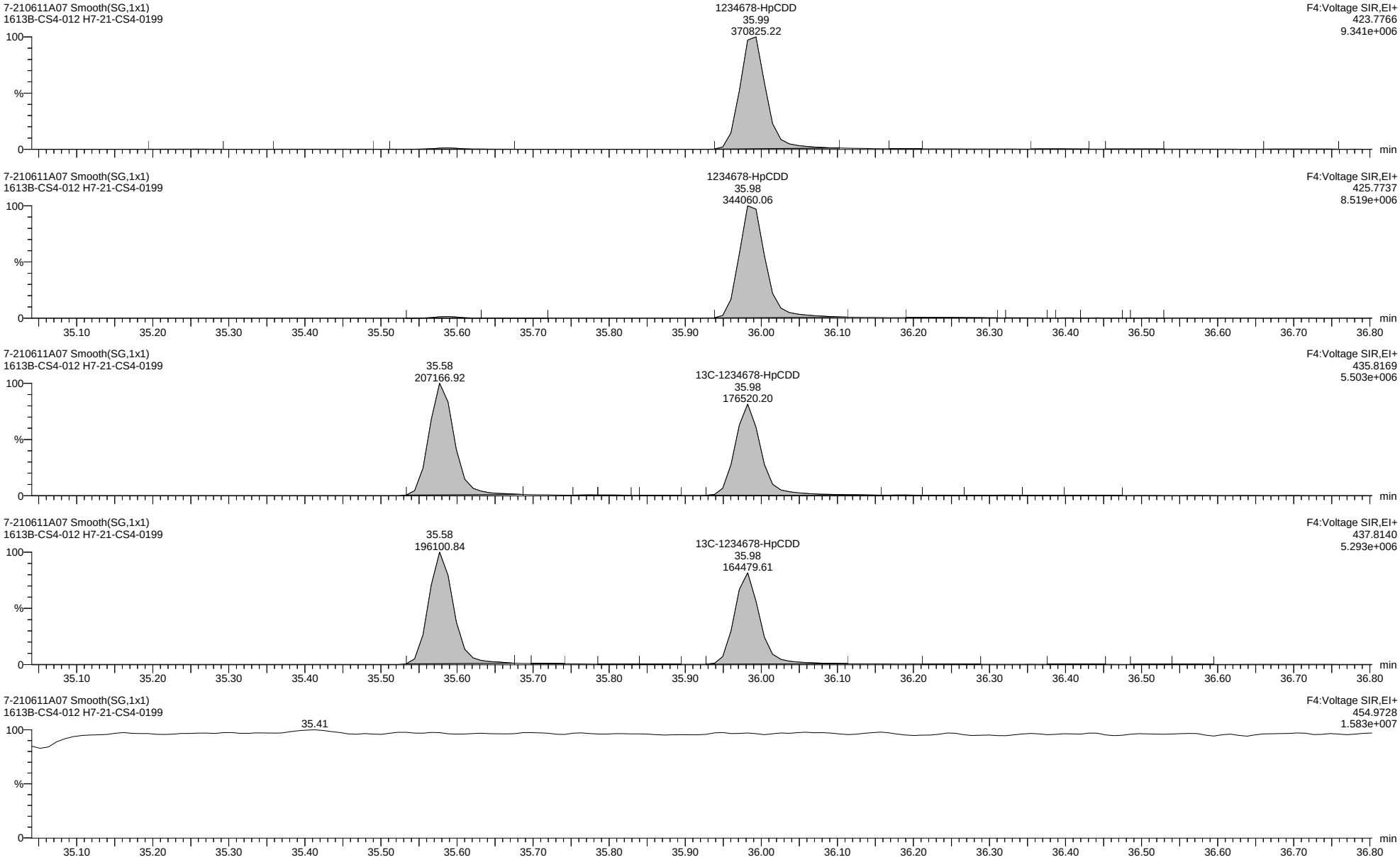

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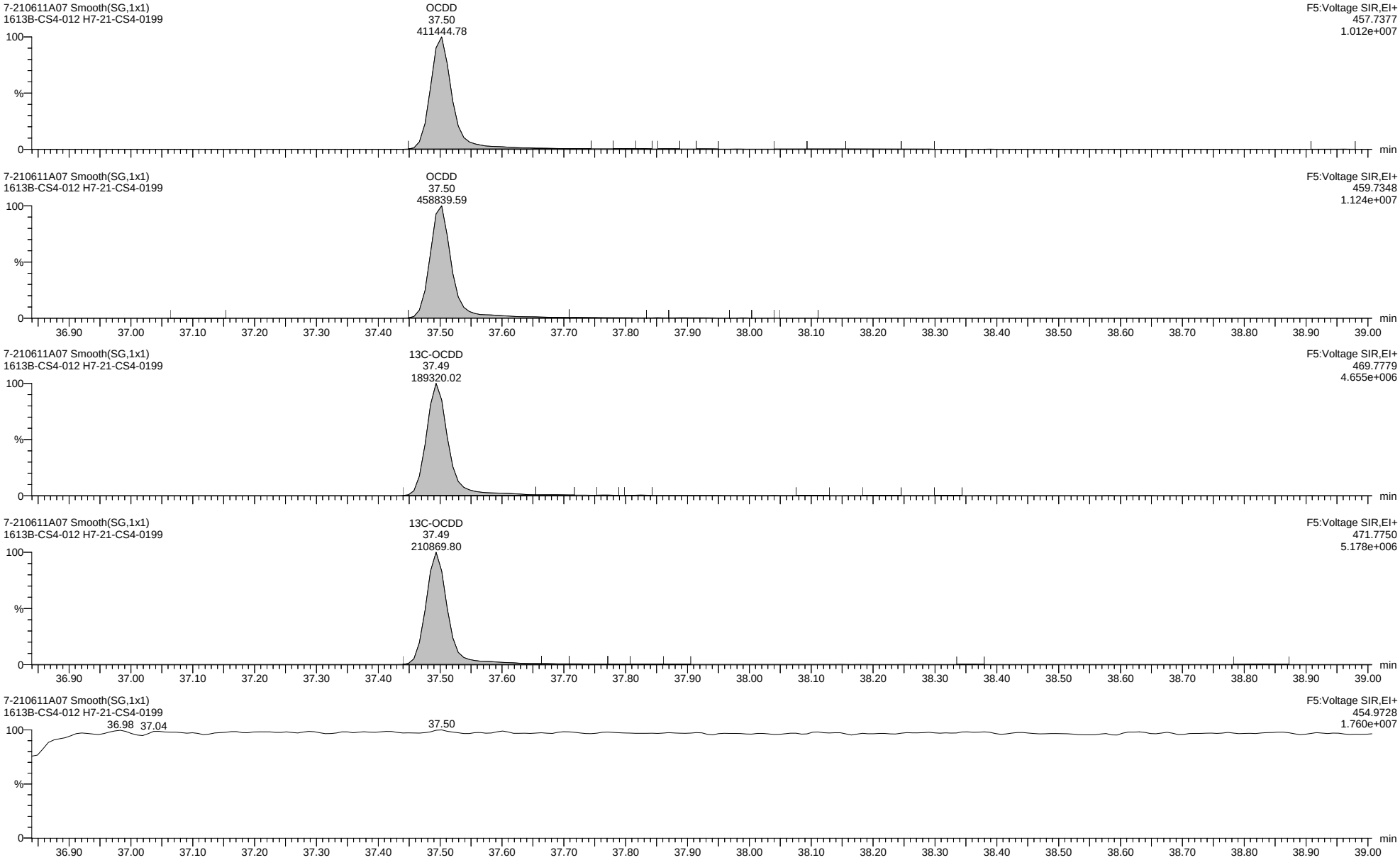

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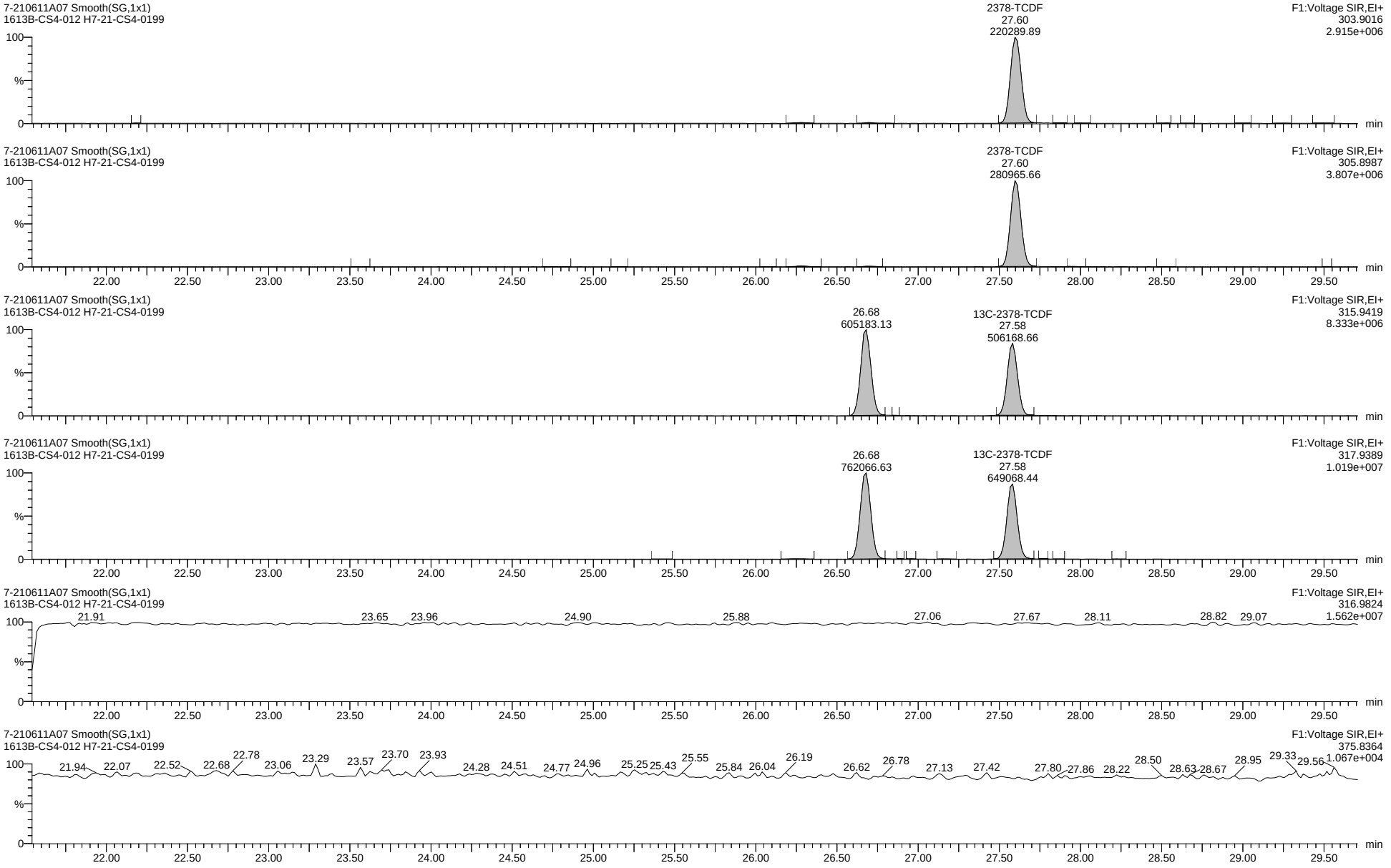

Dataset: I:\Organics Instrument\HIGHRES GCMS Completed Results Files\HR-7\7-210611A-ICAL-1613.qld

Last Altered: Monday, June 14, 2021 09:35:05 Eastern Daylight Time
Printed: Thursday, June 17, 2021 12:13:23 Eastern Daylight Time

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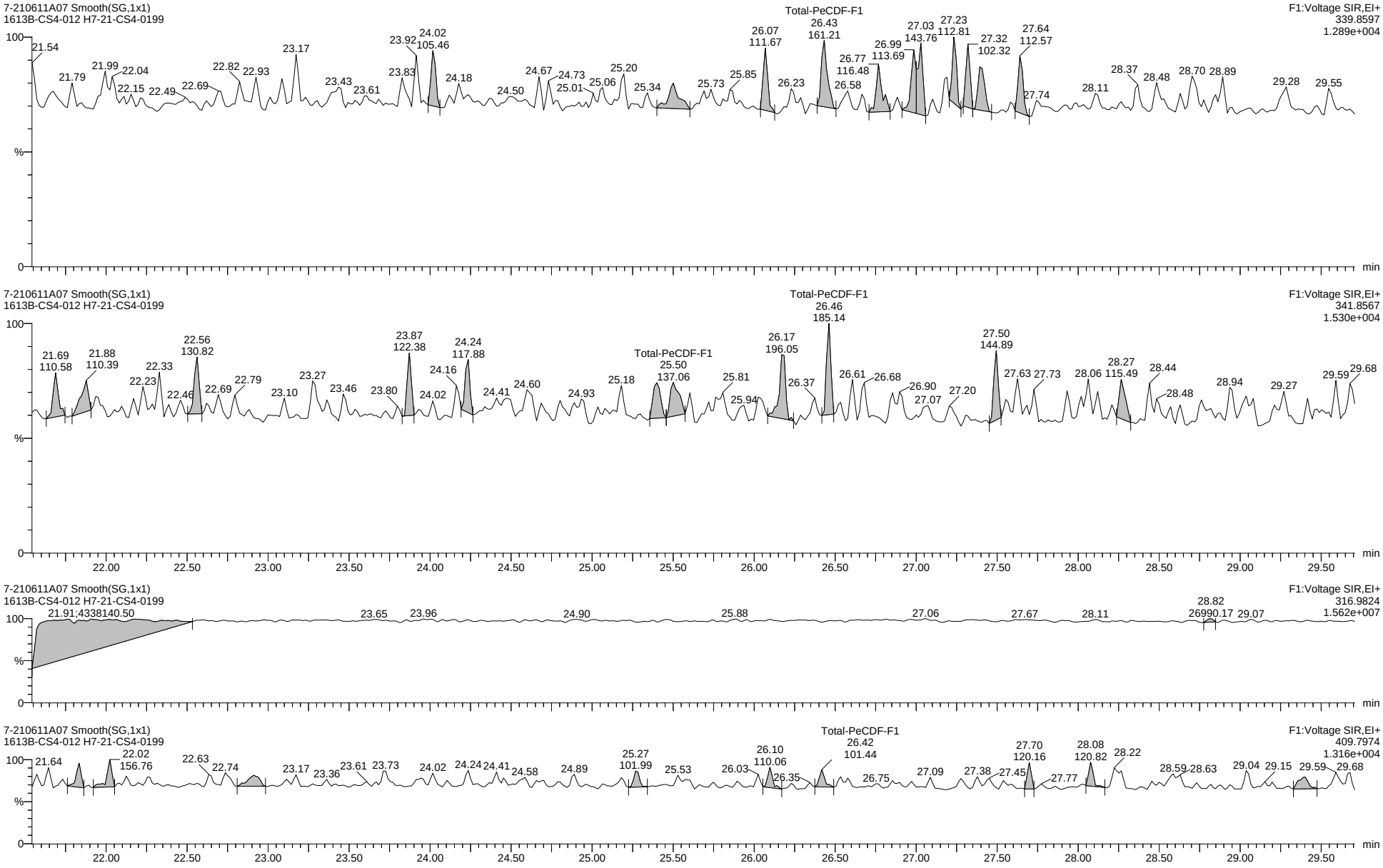

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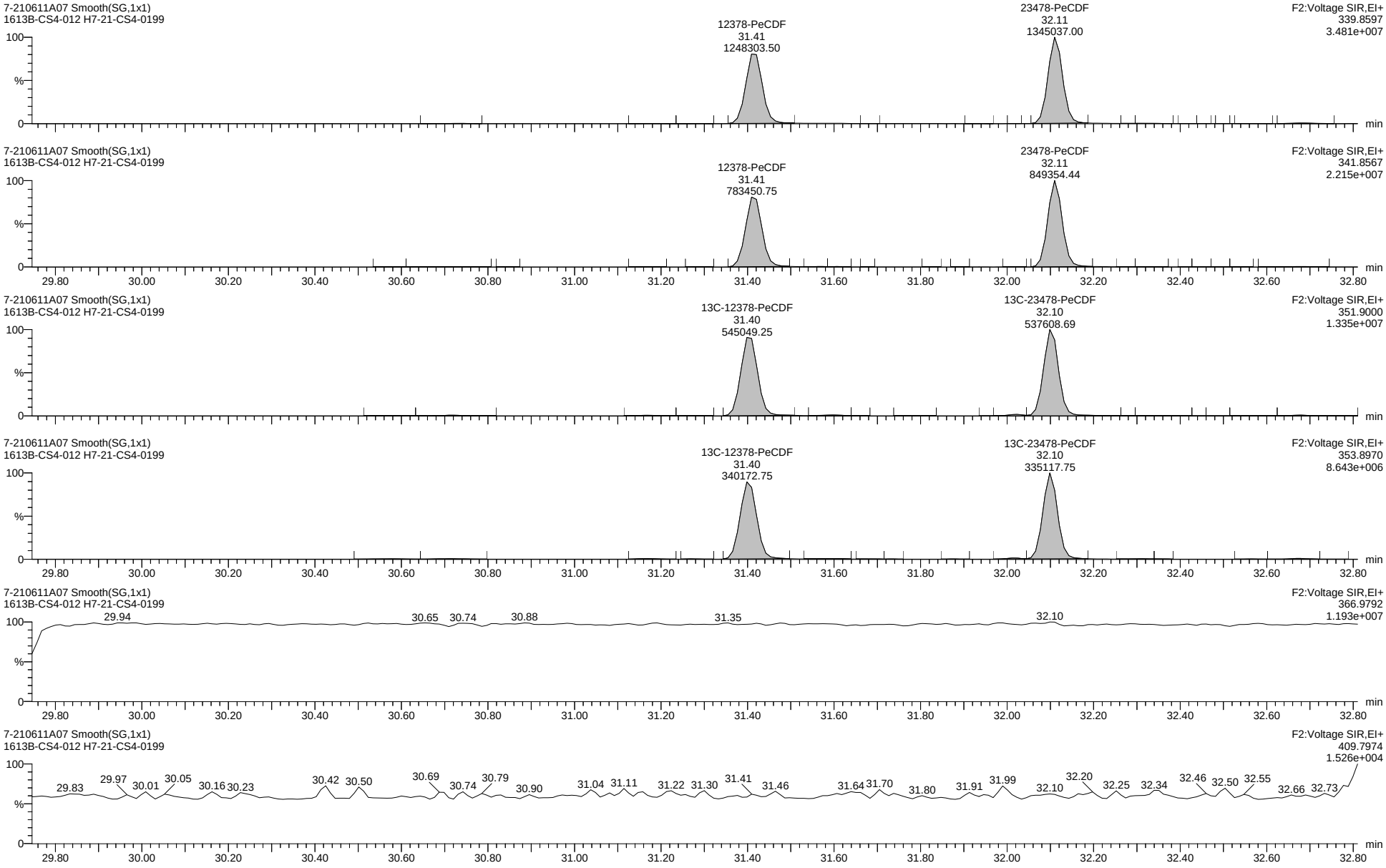

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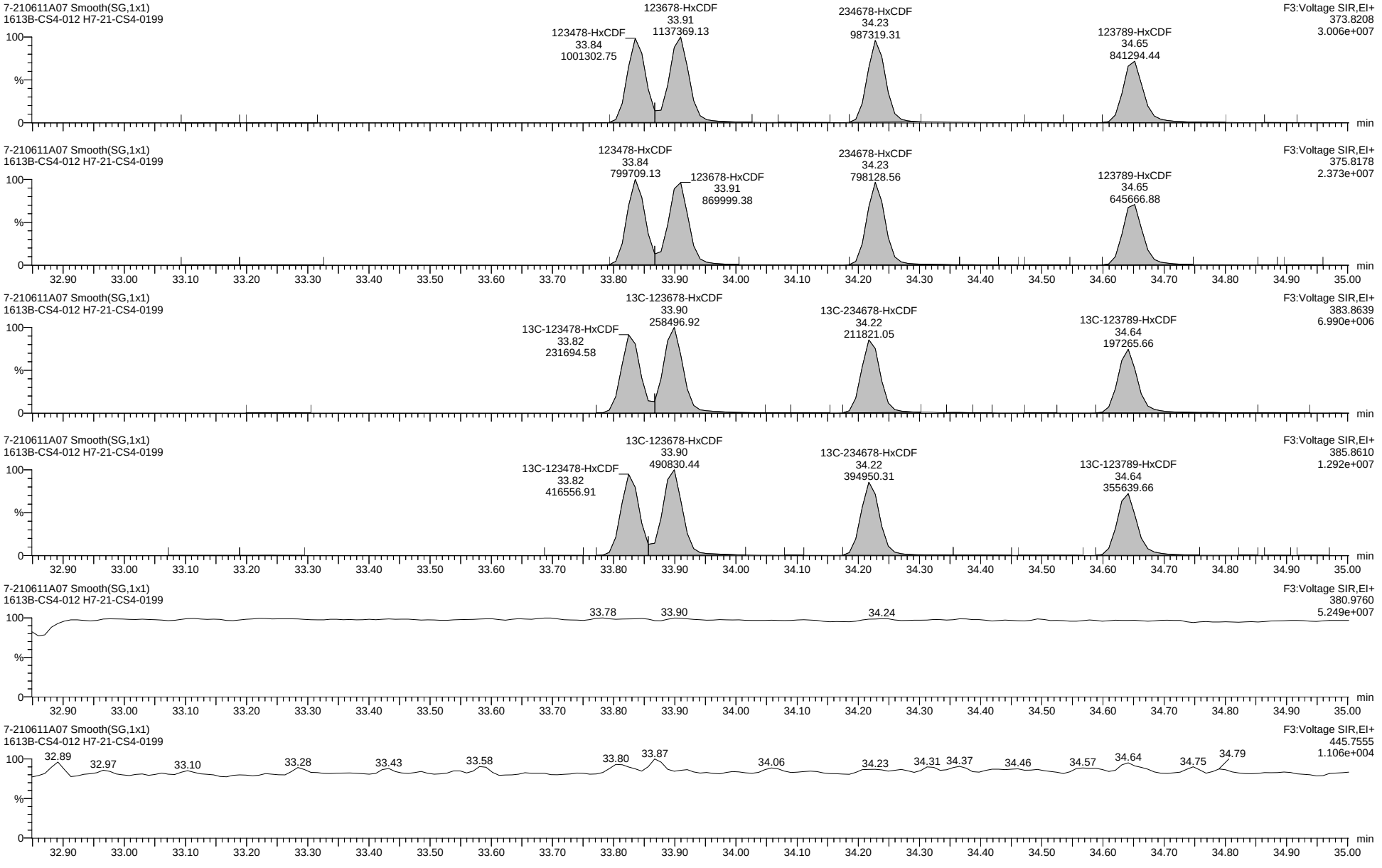

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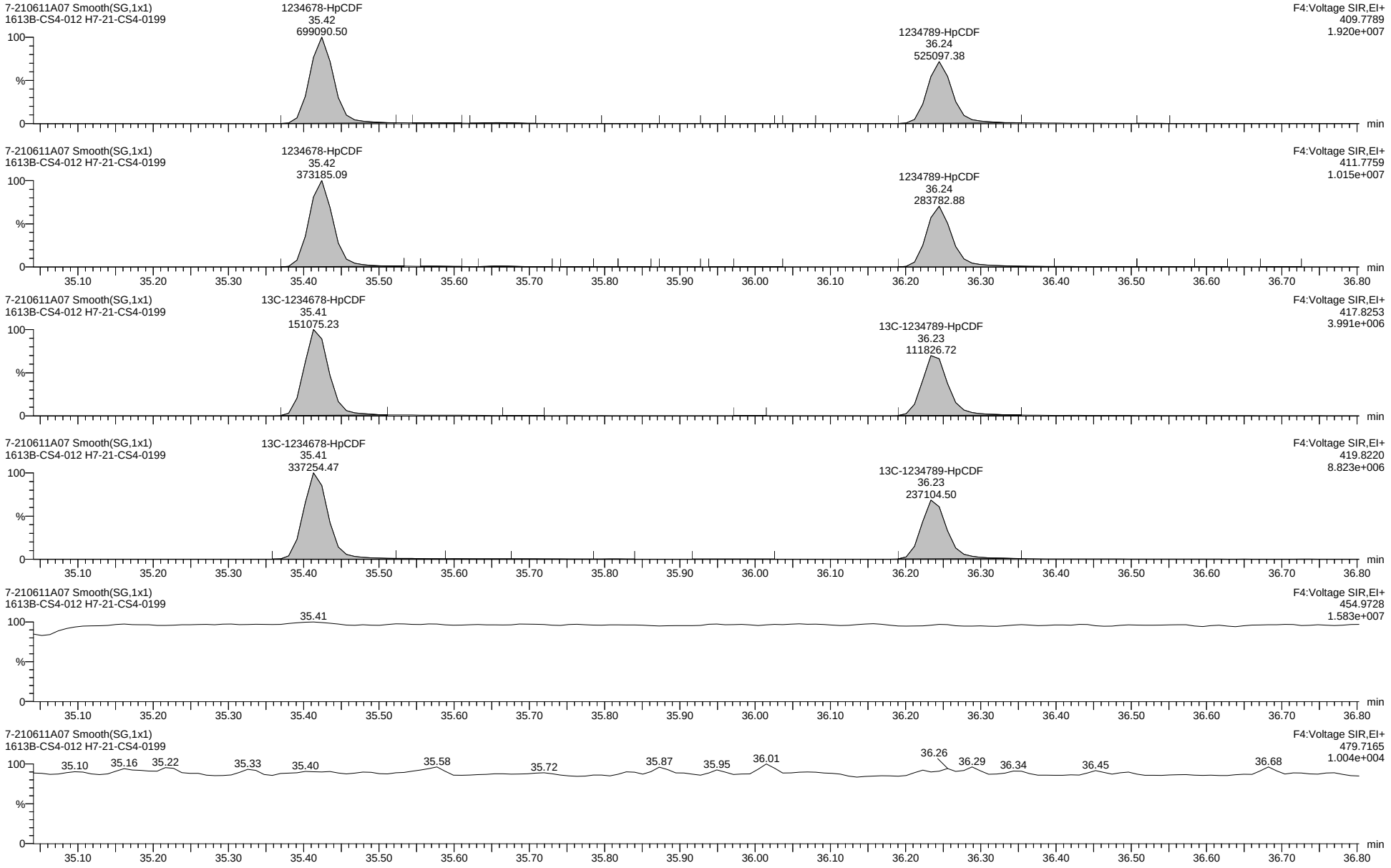

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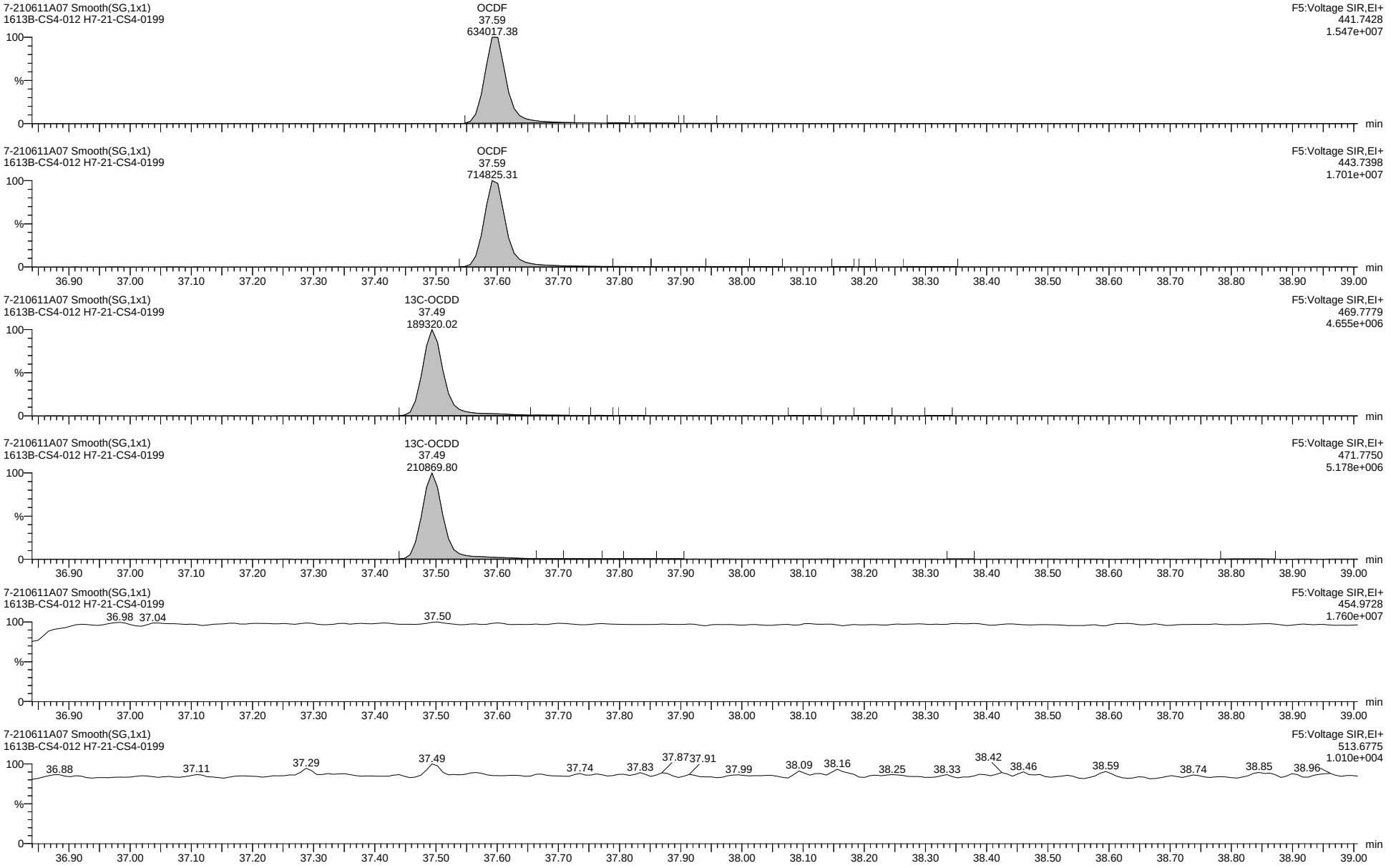
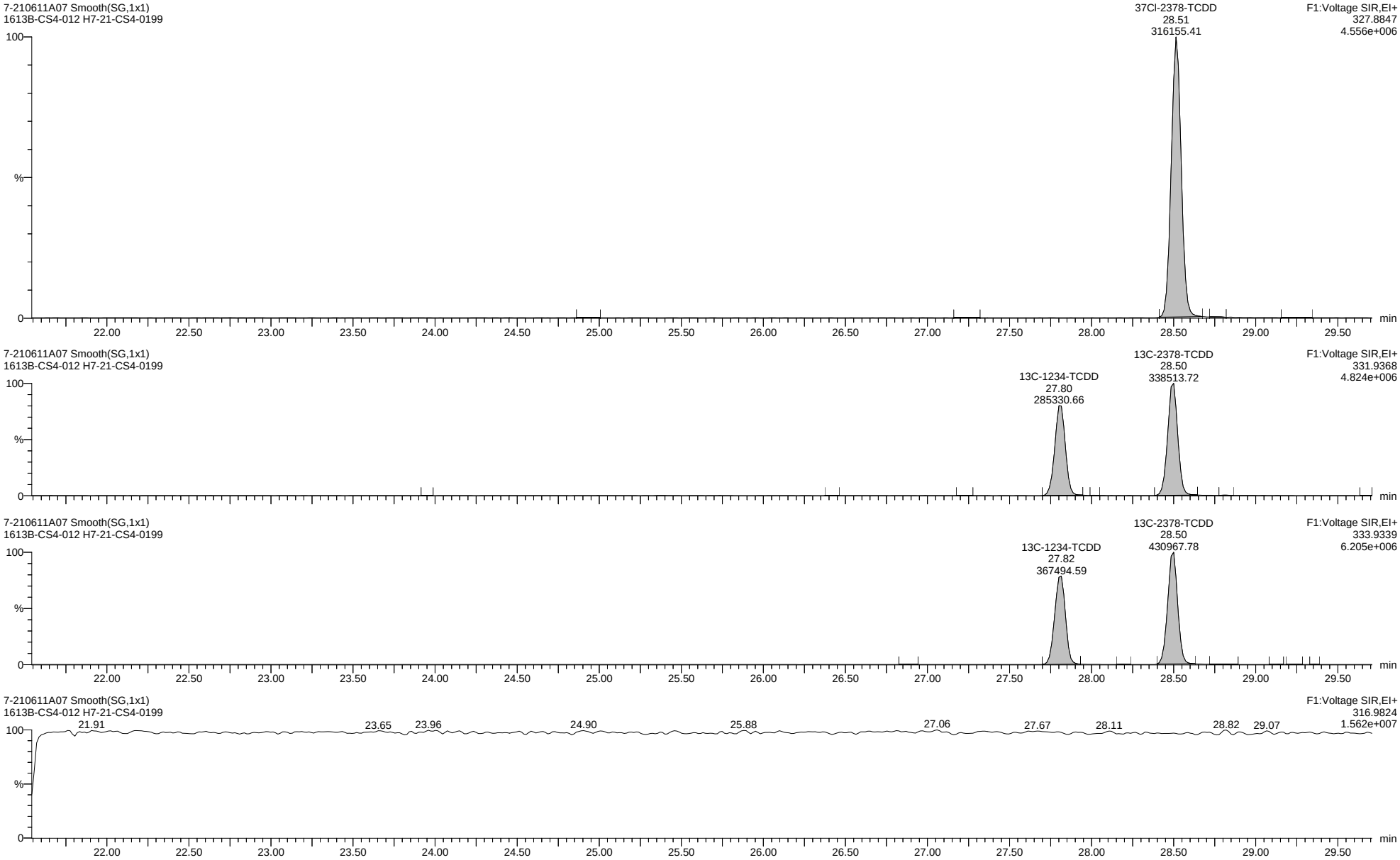


Name: 7-210611A07, Date: 11-Jun-2021, Time: 16:48:17, ID: H7-21-CS4-0199, Description: 1613B-CS4-012, Vial: Tray1:9



Quantify Sample Template Report **MassLynx MassLynx V4.1 SCN 901**

Dataset: I:\Organics Instrument\HIGHRES GCMS Completed Results Files\HR-7\7-210611A-ICAL-1613.qld

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Printed: Thursday, June 17, 2021 12:13:23 Eastern Daylight Time

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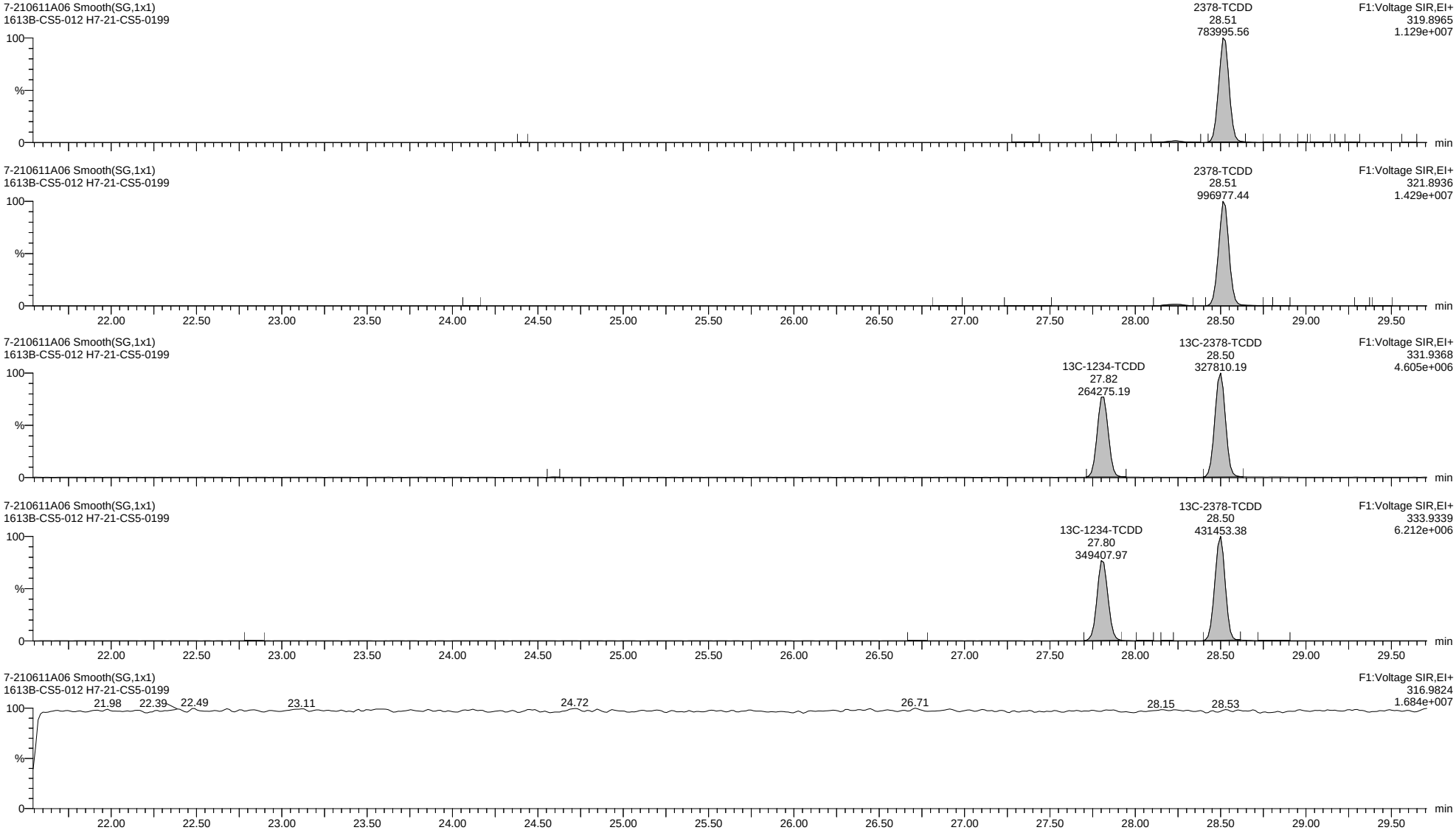
Calibration: C:\MassLynx\Dioxin.PRO\CurveDB\7-210611A-CAL5-1613.cdb 14 Jun 2021 09:35:05

Name: 7-210611A06, Date: 11-Jun-2021, Time: 16:04:38, ID: H7-21-CS5-0199, Description: 1613B-CS5-012, Vial: Tray1:8



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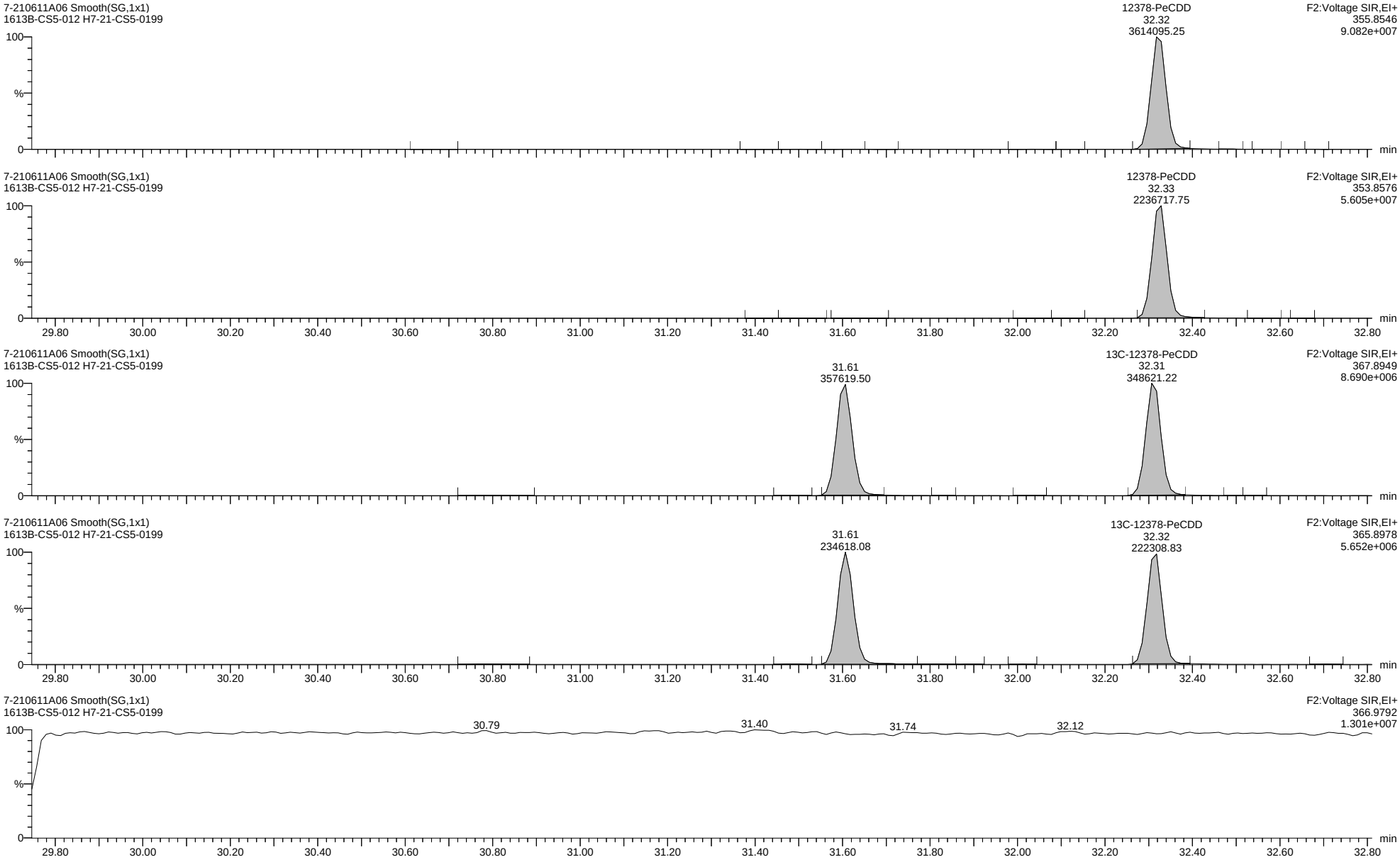

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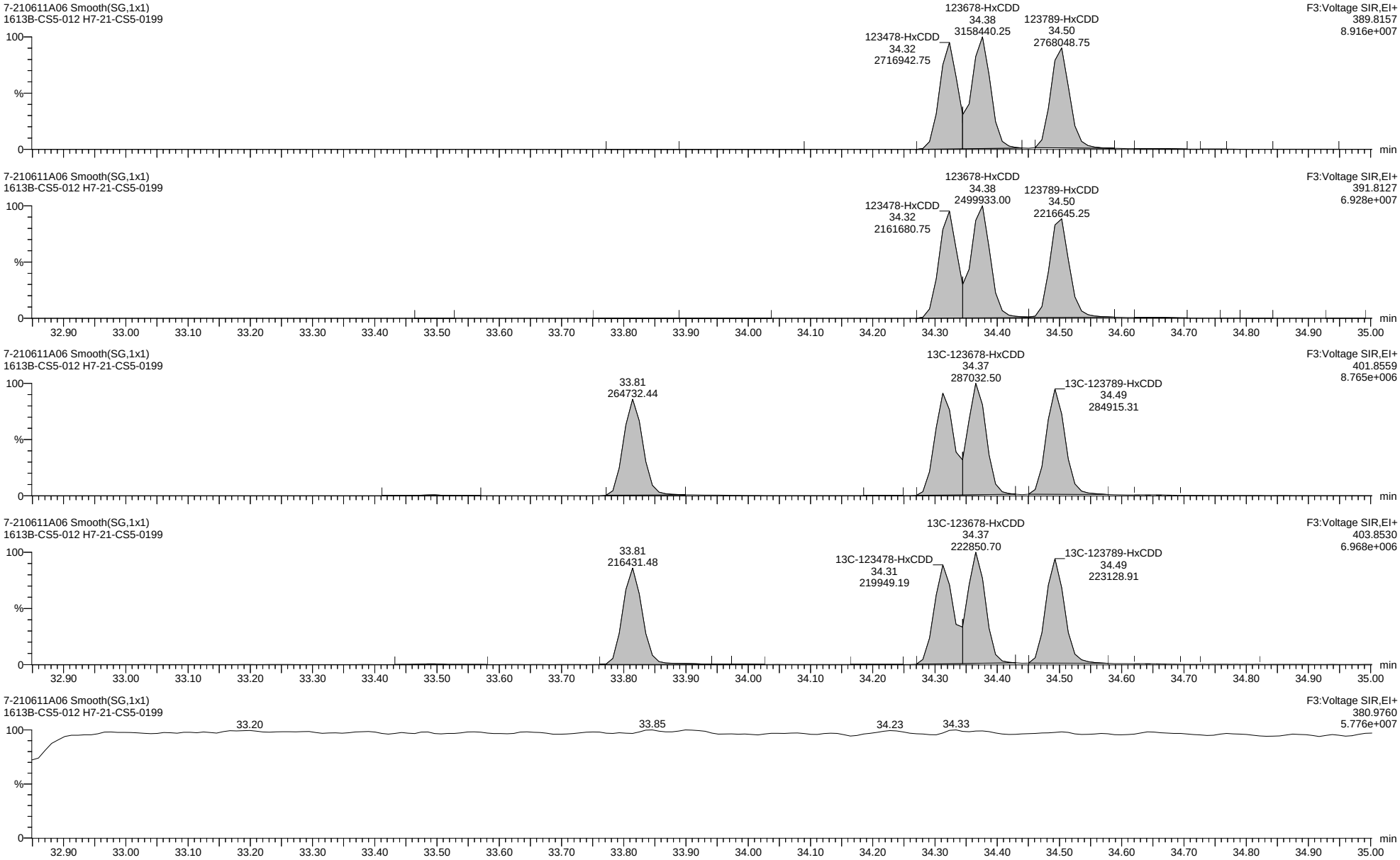

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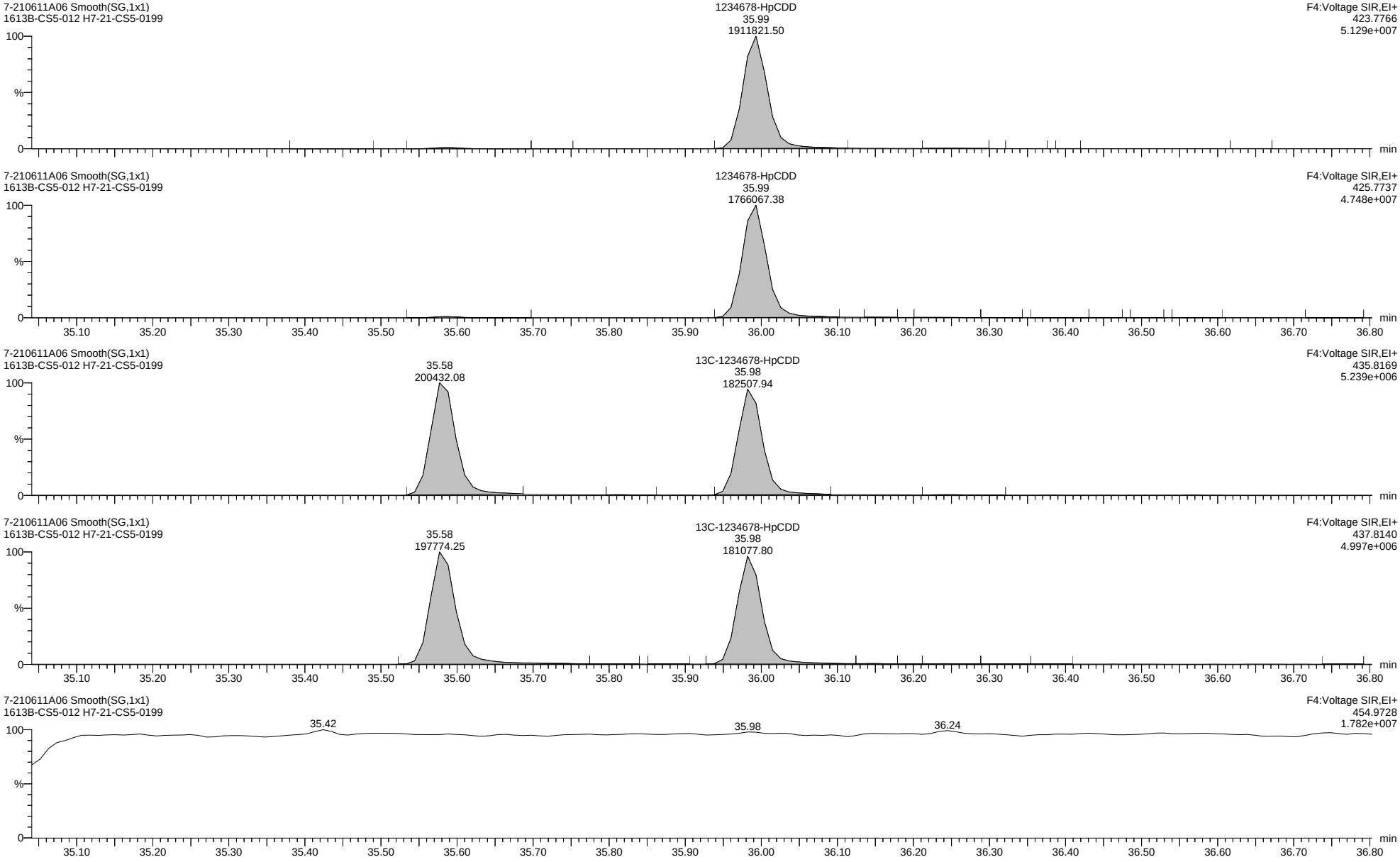

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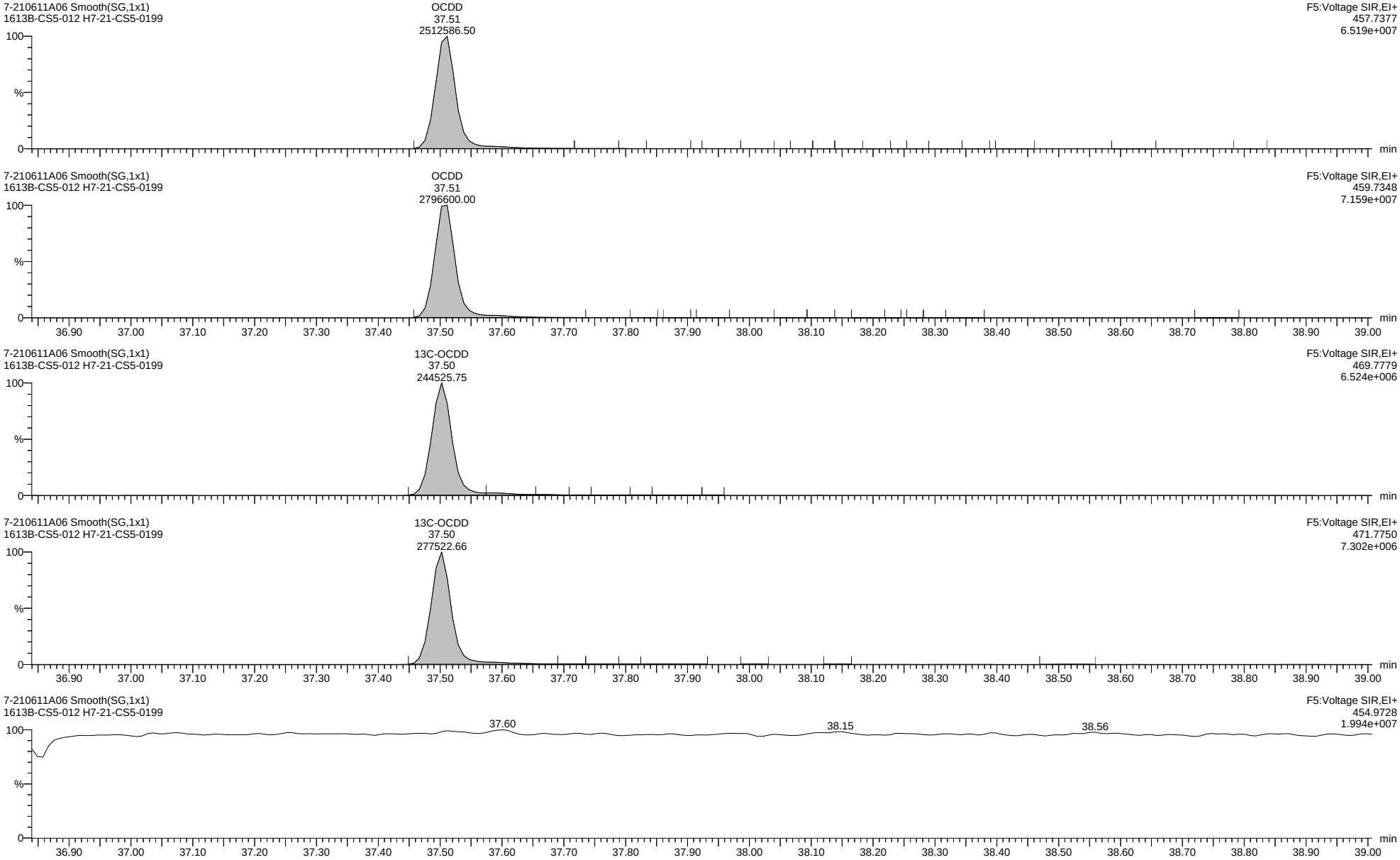

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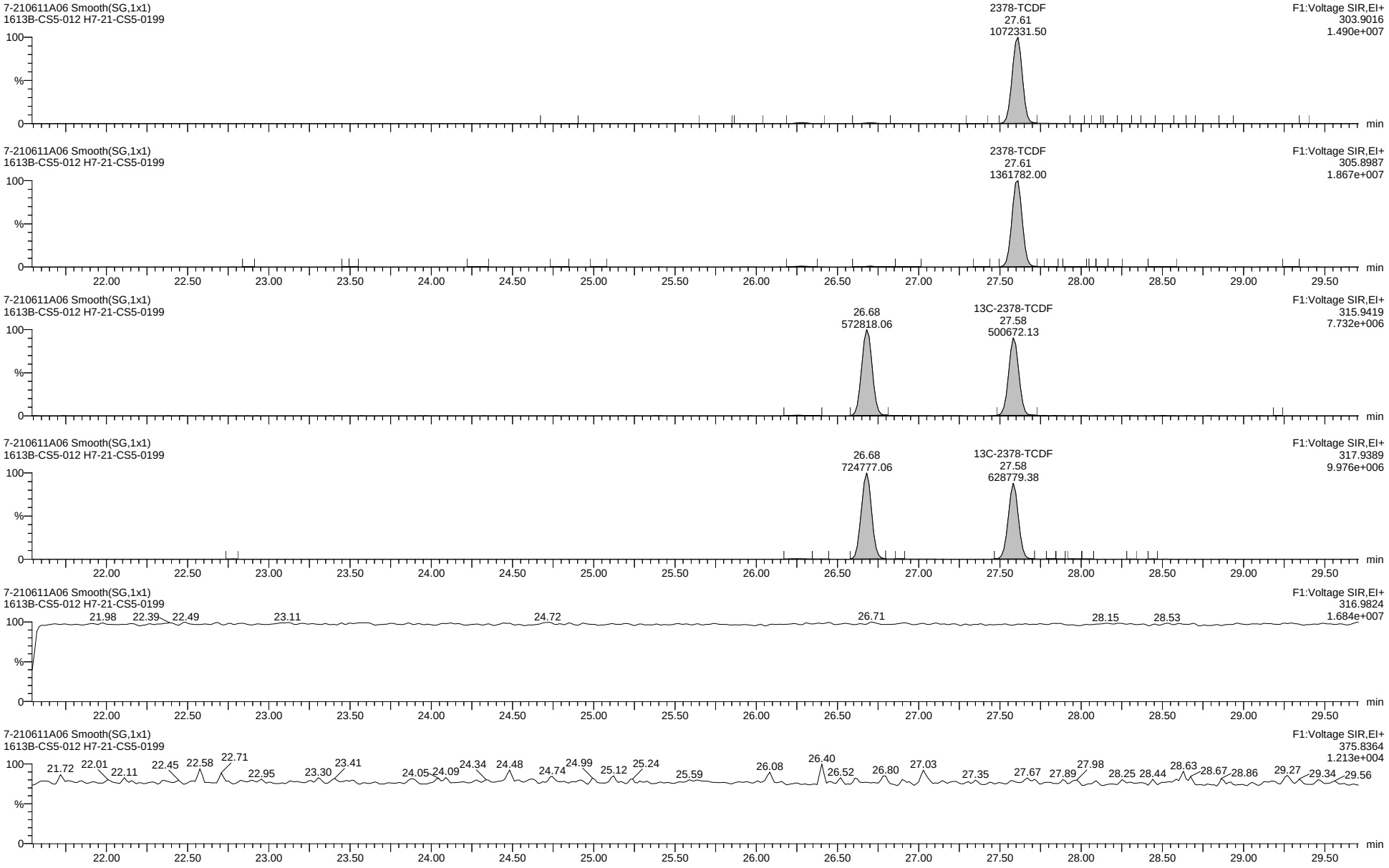

Dataset: I:\Organics Instrument\HIGHRES GCMS Completed Results Files\HR-7\7-210611A-ICAL-1613.qld

Last Altered: Monday, June 14, 2021 09:35:05 Eastern Daylight Time
Printed: Thursday, June 17, 2021 12:13:23 Eastern Daylight Time

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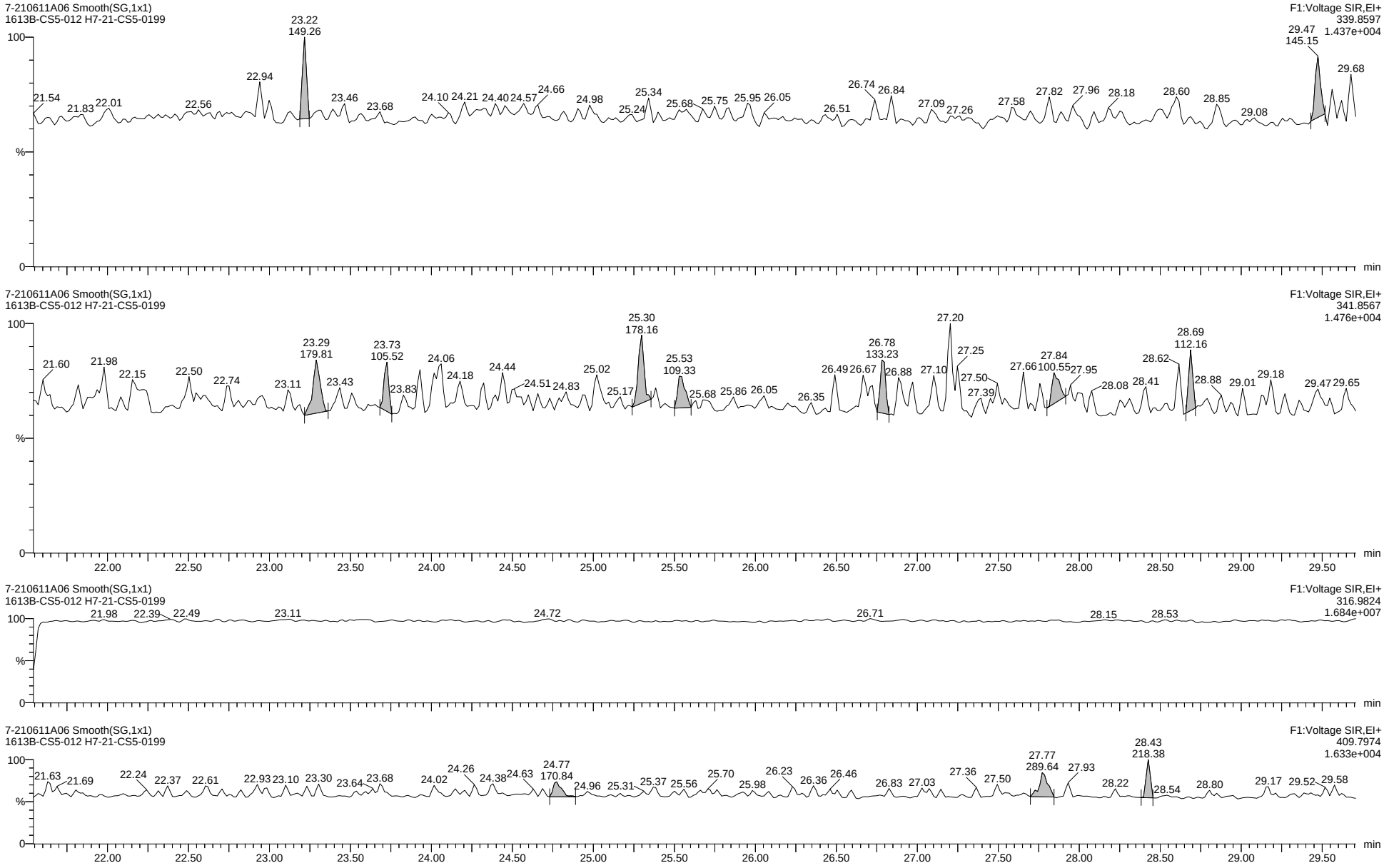

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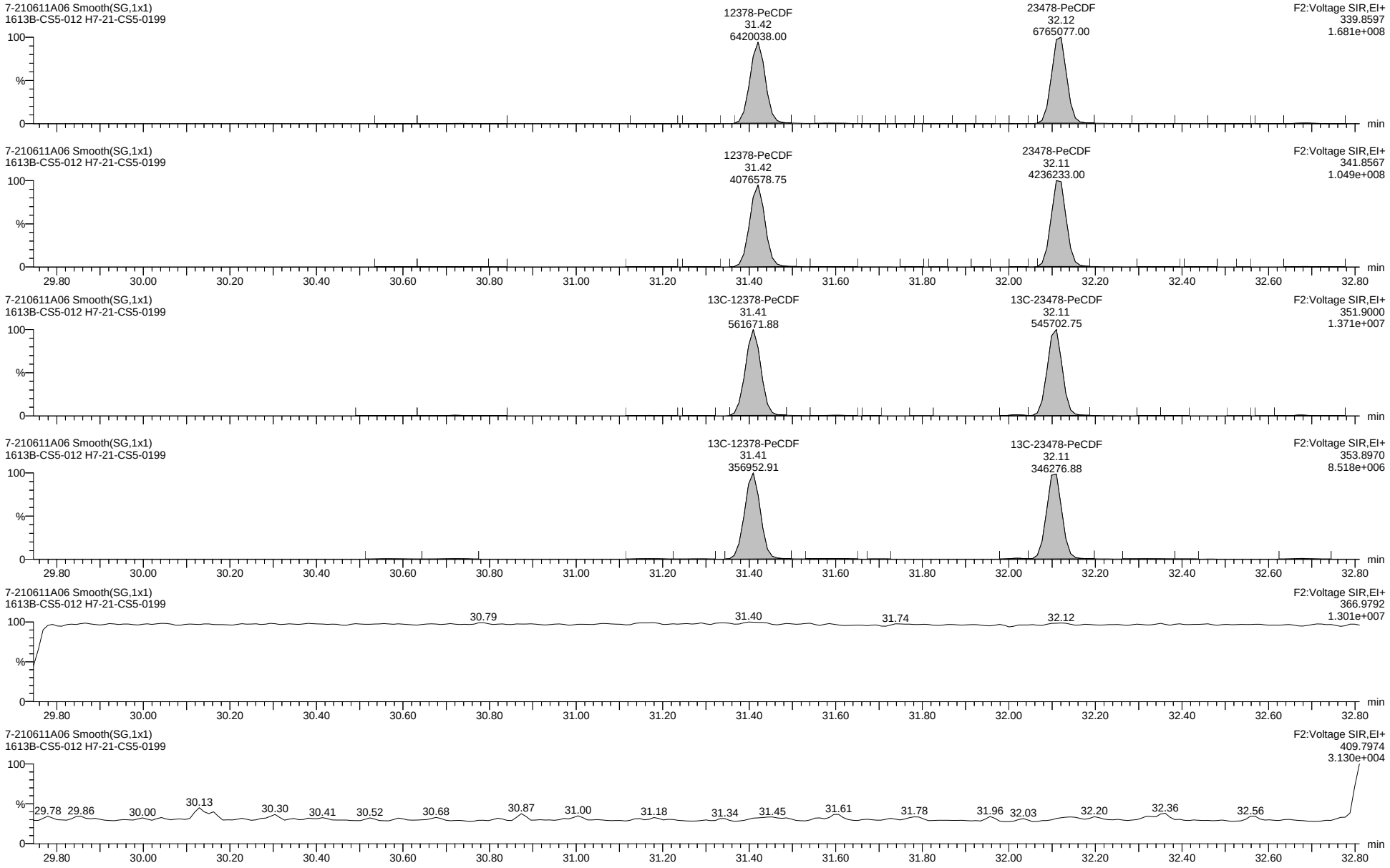

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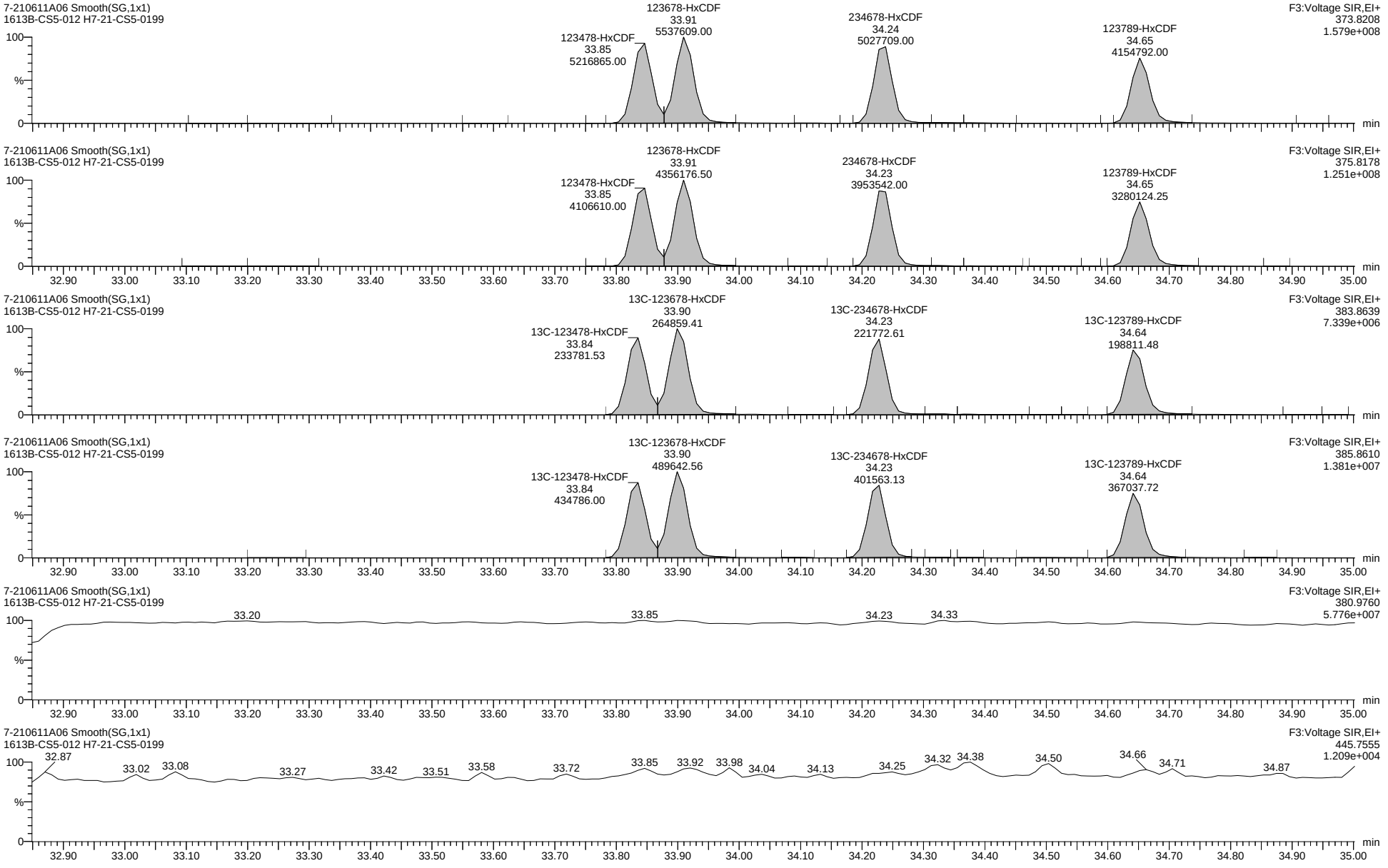

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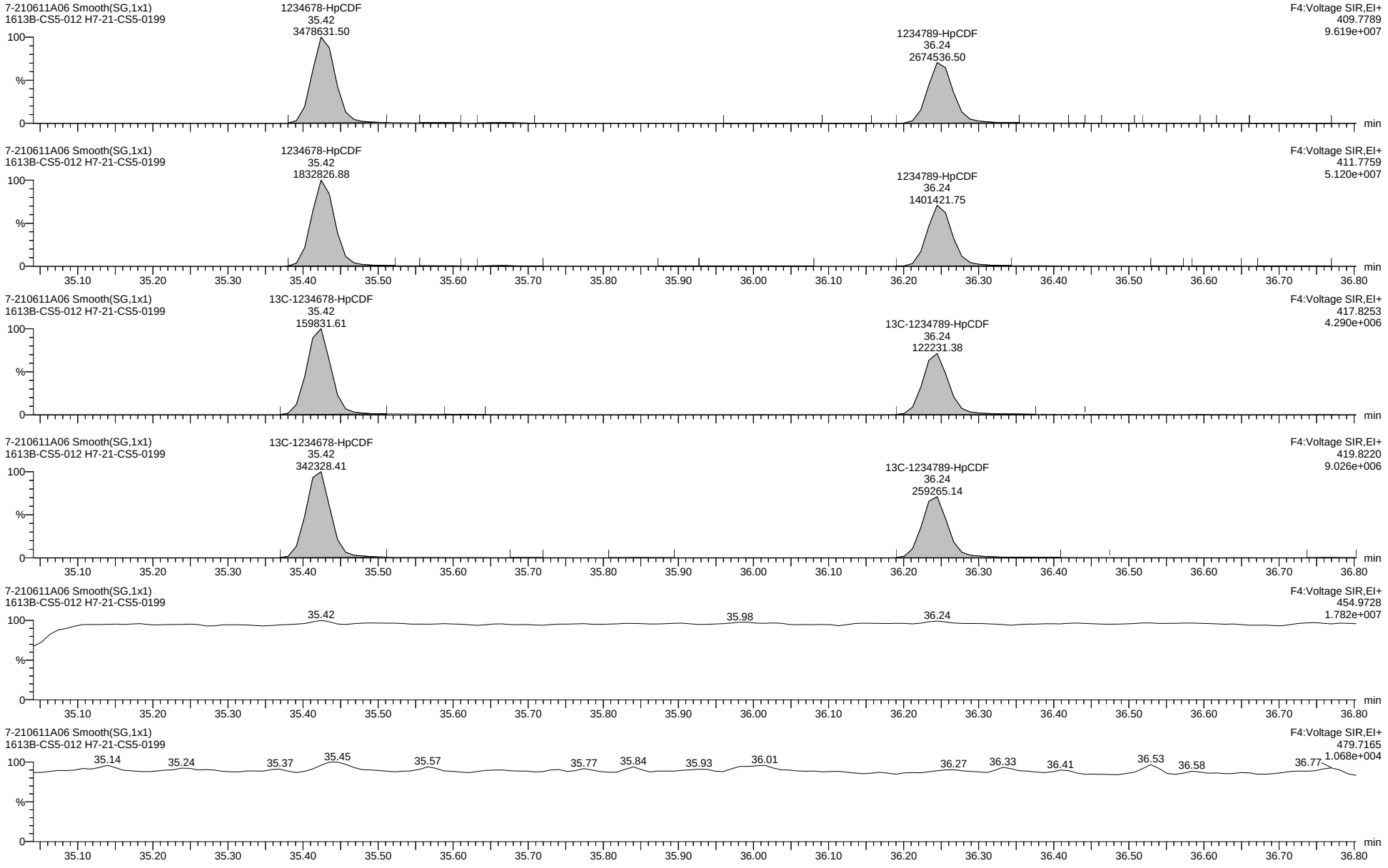

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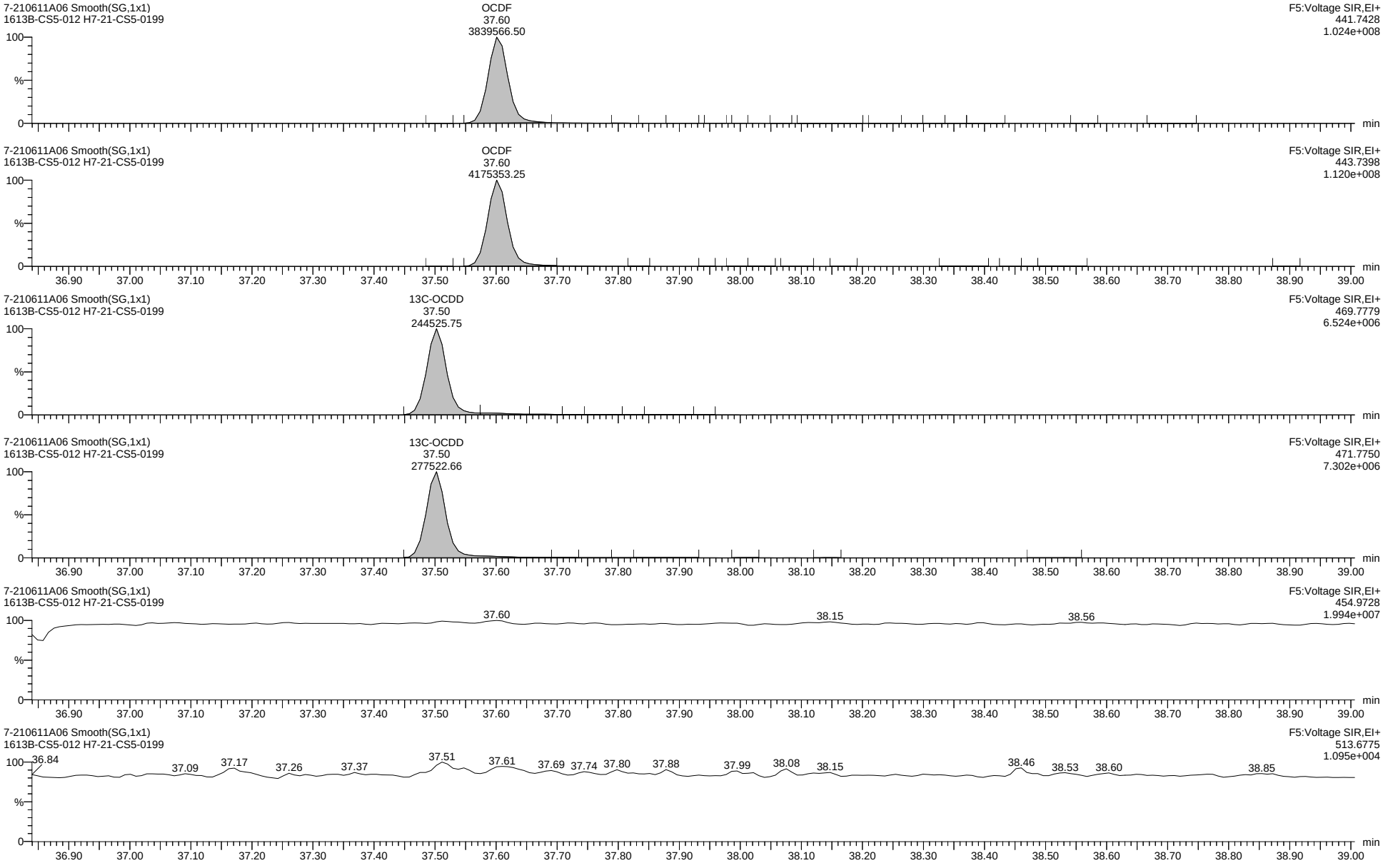

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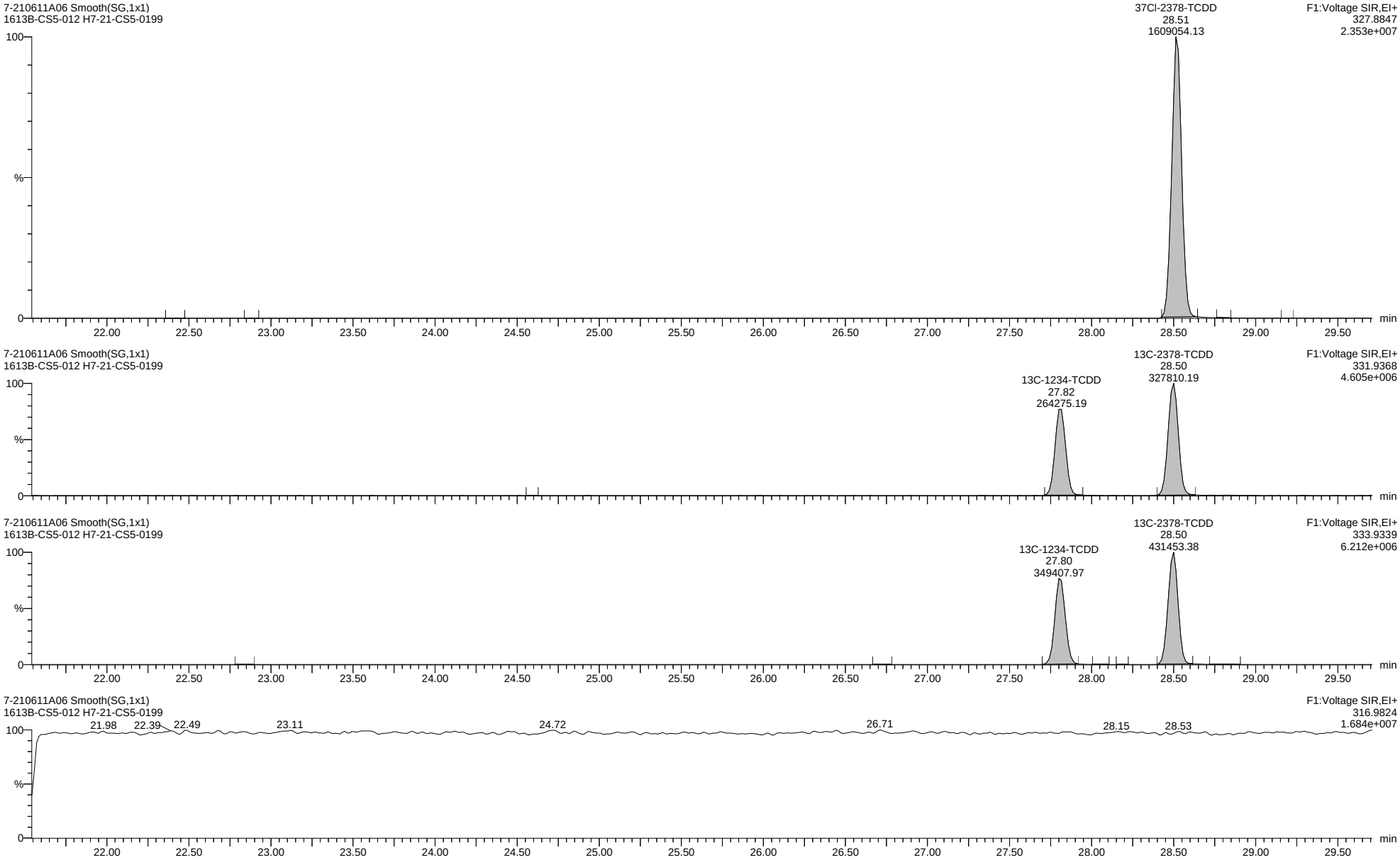

Quantify Sample Summary Report **MassLynx MassLynx V4.1 SCN 901**

Dataset: I:\Organics Instrument\HIGHRES GCMS Completed Results Files\HR-7\7-210611A-ICAL-1613-QC.qld

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Printed: Thursday, June 17, 2021 12:18:56 Eastern Daylight Time

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Calibration: C:\MassLynx\Dioxin.PRO\CurveDB\7-210611A-CAL5-1613.cdb 14 Jun 2021 09:35:05

Name: 7-210611A08, Date: 11-Jun-2021, Time: 17:31:55, ID: H7-21-RS1-0199, Description: 1613B-RS1-012, Vial: Tray1:10

	Target Analyte	#Hom	Total Area	Ion1 Area	Ion2 Area	Ra	Ra Fail=YES	RT	RRT	RT LCL	RT UCL	pg	%Rec	Mod.Comment	Noise 1	Noise 2
1	2378-TCDD		70367	30902	39465	0.78	NO	28.50	1.00	28.47	28.53	9.5191363	95.2		1421	799
2	12378-PeCDD		238510	147854	90656	1.63	NO	32.31	1.00	32.27	32.34	54.591903	109.2		813	915
3	123478-HxCDD		185435	104576	80859	1.29	NO	34.31	1.00	34.28	34.35	49.890690	99.8		2455	1221
4	123678-HxCDD		220242	127733	92508	1.38	NO	34.37	1.00	34.33	34.40	53.877883	107.8		2455	1221
5	123789-HxCDD		209044	121779	87264	1.40	NO	34.49	1.00	34.46	34.53	54.956229	109.9		2455	1221
6	1234678-HpCDD		165886	86861	79025	1.10	NO	35.98	1.00	35.95	36.02	51.979171	104.0		1449	3883
7	OCDD		210829	102524	108305	0.95	NO	37.49	1.00	37.46	37.53	104.02160	104.0		2539	3530
8	2378-TCDF		106335	47271	59064	0.80	NO	27.60	1.00	27.56	27.63	10.375414	103.8		1026	1471
9	12378-PeCDF		422838	258428	164410	1.57	NO	31.41	1.00	31.38	31.44	51.625787	103.3		2542	3158
10	23478-PeCDF		409936	251104	158832	1.58	NO	32.11	1.00	32.08	32.14	49.065746	98.1		2542	3158
11	123478-HxCDF		375497	210217	165280	1.27	NO	33.84	1.00	33.80	33.87	50.578406	101.2		4811	2132
12	123678-HxCDF		399231	226723	172508	1.31	NO	33.90	1.00	33.87	33.93	50.609406	101.2		4811	2132
13	234678-HxCDF		358215	202483	155733	1.30	NO	34.23	1.00	34.19	34.26	49.480198	99.0		4811	2132
14	123789-HxCDF		325306	183477	141829	1.29	NO	34.64	1.00	34.61	34.67	55.545722	111.1		4811	2132
15	1234678-HpCDF		229987	149619	80368	1.86	NO	35.41	1.00	35.38	35.45	50.110523	100.2		6187	1696
16	1234789-HpCDF		183946	119990	63956	1.88	NO	36.23	1.00	36.20	36.27	50.902617	101.8		6187	1696
17	OCDF		325404	159283	166121	0.96	NO	37.59	1.00	37.56	37.63	114.03344	114.0		3512	4947
18	13C-2378-TCDD		636675	275172	361502	0.76	NO	28.48	1.02	28.45	28.52	97.387889	97.4		2338	1502
19	13C-12378-PeCDD		440690	267207	173483	1.54	NO	32.30	1.16	32.26	32.33	93.909324	93.9		1916	1949
20	13C-123478-HxCDD		357990	209227	148763	1.41	NO	34.30	0.99	34.27	34.34	94.753462	94.8		3184	2493
21	13C-123678-HxCDD		398982	217807	181175	1.20	NO	34.35	1.00	34.32	34.39	100.81200	100.8		3184	2493
22	13C-1234678-HpCDD		306805	155407	151398	1.03	NO	35.97	1.04	35.94	36.00	104.69429	104.7		3472	3342
23	13C-OCDD		378950	179645	199305	0.90	NO	37.48	1.09	37.45	37.52	190.04016	95.0		2296	2586
24	13C-2378-TCDF		970042	419283	550759	0.76	NO	27.58	0.99	27.55	27.62	99.374099	99.4		5116	3105
25	13C-12378-PeCDF		743079	456908	286170	1.60	NO	31.40	1.13	31.37	31.43	96.667094	96.7		1701	1200
26	13C-23478-PeCDF		685581	420612	264969	1.59	NO	32.10	1.15	32.07	32.13	93.877184	93.9		1701	1200
27	13C-123478-HxCDF		558885	194284	364601	0.53	NO	33.82	0.98	33.79	33.86	104.89176	104.9		2349	4963
28	13C-123678-HxCDF		605570	213033	392537	0.54	NO	33.89	0.98	33.85	33.92	103.27568	103.3		2349	4963
29	13C-234678-HxCDF		510681	182561	328120	0.56	NO	34.22	0.99	34.18	34.25	102.99540	103.0		2349	4963
30	13C-123789-HxCDF		449399	158090	291309	0.54	NO	34.63	1.00	34.60	34.66	100.48356	100.5		2349	4963
31	13C-1234678-HpCDF		427091	133736	293355	0.46	NO	35.41	1.03	35.38	35.45	104.62335	104.6		3318	5237
32	13C-1234789-HpCDF		326643	105046	221597	0.47	NO	36.23	1.05	36.20	36.27	105.83900	105.8		3318	5237
33	13C-1234-TCDD		555653	244189	311464	0.78	NO	27.80	0.00	27.77	27.83	69.886233	69.9		2338	1502
34	13C-123789-HxCDD		407713	231010	176703	1.31	NO	34.48	0.00	34.45	34.52	64.760055	64.8		3184	2493

Quantify Sample Summary Report **MassLynx MassLynx V4.1 SCN 901**

Dataset: I:\Organics Instrument\HIGHRES GCMS Completed Results Files\HR-7\7-210611A-ICAL-1613-QC.qld

Last Altered: Monday, June 14, 2021 09:56:28 Eastern Daylight Time
Printed: Thursday, June 17, 2021 12:18:56 Eastern Daylight Time

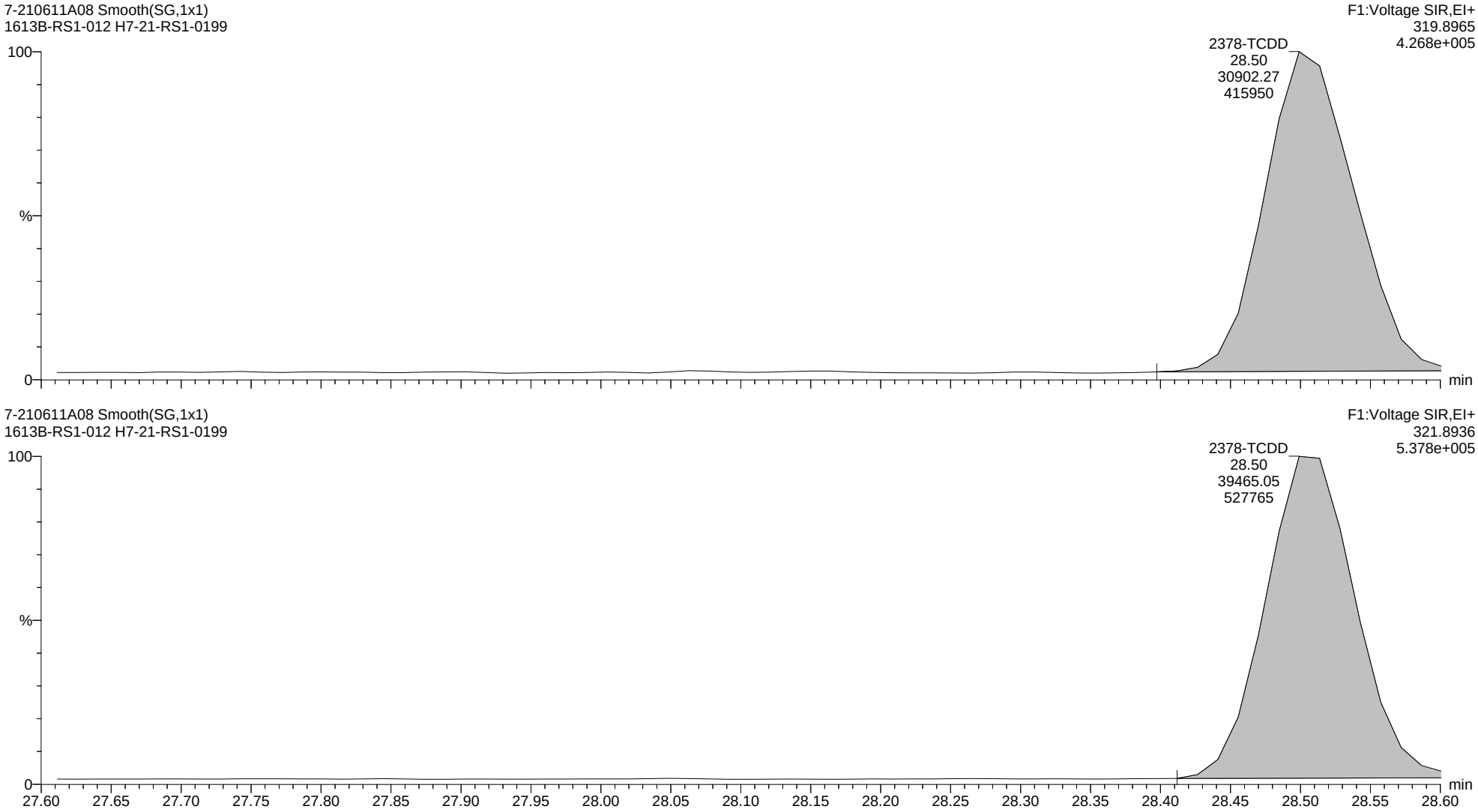
Name: 7-210611A08, Date: 11-Jun-2021, Time: 17:31:55, ID: H7-21-RS1-0199, Description: 1613B-RS1-012, Vial: Tray1:10

	Target Analyte	#Hom	Total Area	Ion1 Area	Ion2 Area	Ra	Ra Fail=YES	RT	RRT	RT LCL	RT UCL	pg	%Rec	Mod.Comment	Noise 1	Noise 2
35	37Cl-2378-TCDD		76071	76071				28.51	1.00	28.48	28.55	11.415127	114.2		1022	
36	Total-Tetradioxins	1		30902								9.5191363			1421	
37	Total-Pentadioxins	1		147854								54.591903			813	
38	Total-Hexadioxins	3		354089								158.72480			2455	
39	Total-Heptadioxins	2		87653								52.481629			1449	
40	Total-OCDD	1		102524								104.02160			2539	
41	Total-Tetrafurans	1		47271								10.375414			1026	
42	Total-PeCDF-F1			0											1023	
43	Total-Pentafurans	3		511453								101.08356			2542	
44	Total-Hexafurans	5		823584								206.38879			4811	
45	Total-Heptafurans	2		269609								101.01314			6187	
46	Totals-OCDF	1		159283								114.03344			3512	
47	Totals-37Cl-2378-TCDD	3		76319								11.452207			1022	

Method: C:\MassLynx\Dioxin.PRO\MethDB\Dioxin_1613B.mdb 08 Jun 2021 10:17:10
Calibration: C:\MassLynx\Dioxin.PRO\CurveDB\7-210611A-CAL5-1613.cdb 14 Jun 2021 09:35:05

Name: 7-210611A08, Date: 11-Jun-2021, Time: 17:31:55, ID: H7-21-RS1-0199, Description: 1613B-RS1-012, Vial: Tray1:10

2378-TCDD



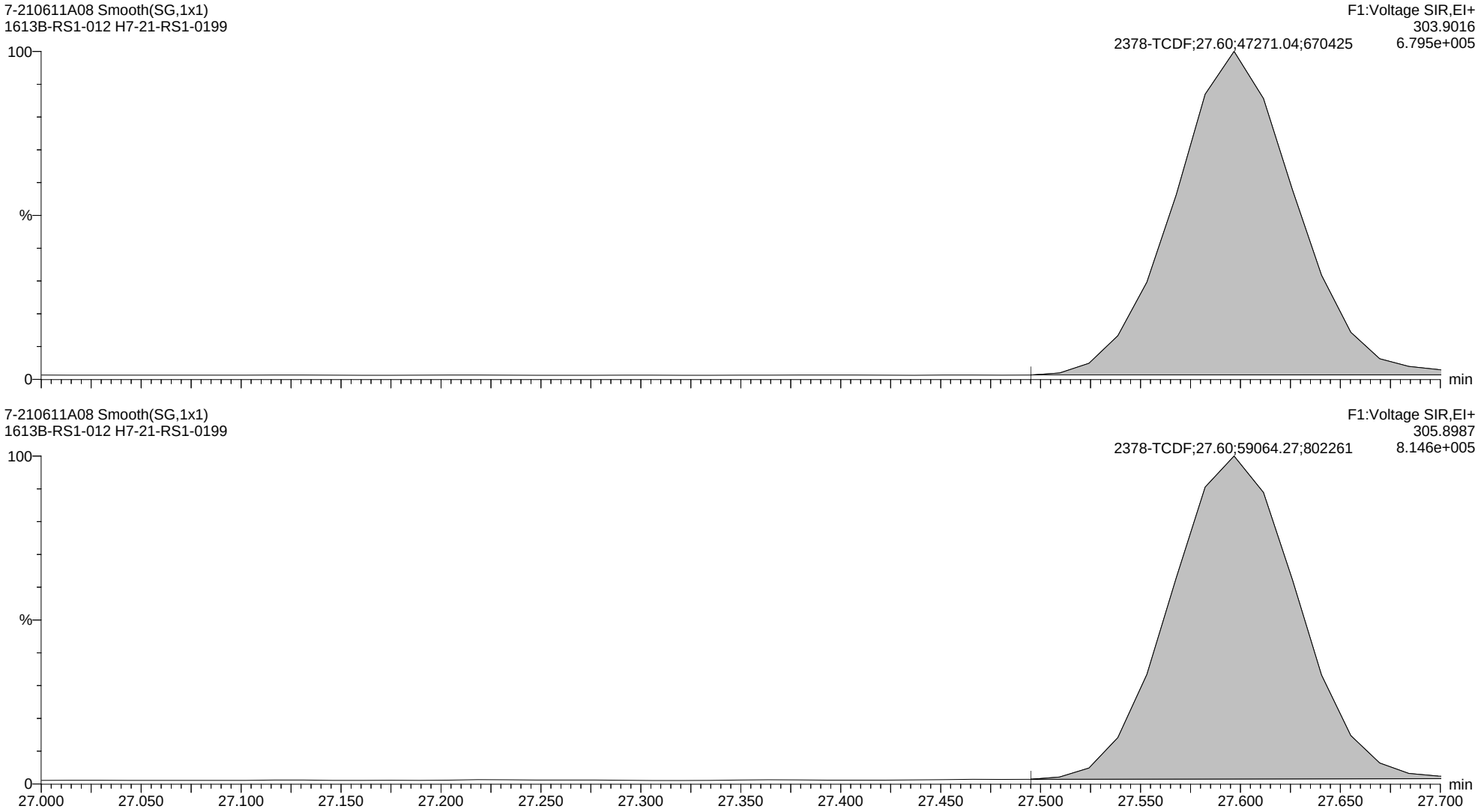
Quantify Sample Report **MassLynx MassLynx V4.1 SCN 901**

Dataset: I:\Organics Instrument\HIGHRES GCMS Completed Results Files\HR-7\7-210611A-ICAL-1613-QC.qld

Last Altered: Monday, June 14, 2021 09:56:28 Eastern Daylight Time
Printed: Thursday, June 17, 2021 12:18:56 Eastern Daylight Time

Name: 7-210611A08, Date: 11-Jun-2021, Time: 17:31:55, ID: H7-21-RS1-0199, Description: 1613B-RS1-012, Vial: Tray1:10

2378-TCDF



Quantify Audit Report MassLynx MassLynx V4.1 SCN 901

Dataset: I:\Organics Instrument\HIGHRES GCMS Completed Results Files\HR-7\7-210611A-ICAL-1613-QC.qld

Last Altered: Monday, June 14, 2021 09:56:28 Eastern Daylight Time
Printed: Thursday, June 17, 2021 12:18:56 Eastern Daylight Time

Date	Time	Event	Details	Comments
14-Jun-21	09:37:49	Process Extract		
14-Jun-21	09:37:49	Process Integrate		
14-Jun-21	09:37:49	Process Quantify		
14-Jun-21	09:37:50	Dataset Created		
14-Jun-21	09:38:20	Pre modification peak	Sample:7-210611A04, Compound:TD, RT:28.499	
14-Jun-21	09:38:20	Peak modified	Sample:7-210611A04, Compound:TD, RT:28.499	NA210614MB
14-Jun-21	09:38:41	Pre modification peak	Sample:7-210611A04, Compound:PD, RT:32.318	
14-Jun-21	09:38:41	Peak modified	Sample:7-210611A04, Compound:PD, RT:32.318	NA210614MB
14-Jun-21	09:38:56	Pre modification peak	Sample:7-210611A04, Compound:HXD, RT:34.366	
14-Jun-21	09:38:56	Peak modified	Sample:7-210611A04, Compound:HXD, RT:34.366	NA210614MB
14-Jun-21	09:39:06	Pre modification peak	Sample:7-210611A04, Compound:HXD, RT:34.493	
14-Jun-21	09:39:06	Peak modified	Sample:7-210611A04, Compound:HXD, RT:34.493	NA210614MB
14-Jun-21	09:39:18	Pre modification peak	Sample:7-210611A04, Compound:OCD, RT:37.493	
14-Jun-21	09:39:18	Peak modified	Sample:7-210611A04, Compound:OCD, RT:37.493	NA210614MB
14-Jun-21	09:39:27	Pre modification peak	Sample:7-210611A04, Compound:TF, RT:27.597	
14-Jun-21	09:39:27	Peak modified	Sample:7-210611A04, Compound:TF, RT:27.597	NA210614MB
14-Jun-21	09:39:38	Pre modification peak	Sample:7-210611A04, Compound:PF-f2, RT:31.420	
14-Jun-21	09:39:38	Peak modified	Sample:7-210611A04, Compound:PF-f2, RT:31.420	NA210614MB
14-Jun-21	09:49:14	Pre modification peak	Sample:7-210611A04, Compound:HXF, RT:33.910	
14-Jun-21	09:49:14	Peak modified	Sample:7-210611A04, Compound:HXF, RT:33.910	NA210614MB
14-Jun-21	09:49:14	Pre modification peak	Sample:7-210611A04, Compound:HXF, RT:33.835	
14-Jun-21	09:49:14	Peak modified	Sample:7-210611A04, Compound:HXF, RT:33.835	NA210614MB
14-Jun-21	09:49:33	Pre modification peak	Sample:7-210611A04, Compound:HXF, RT:34.228	
14-Jun-21	09:49:33	Peak modified	Sample:7-210611A04, Compound:HXF, RT:34.228	NA210614MB
14-Jun-21	09:49:47	Pre modification peak	Sample:7-210611A04, Compound:HPF, RT:35.424	
14-Jun-21	09:49:47	Peak modified	Sample:7-210611A04, Compound:HPF, RT:35.424	NA210614MB
14-Jun-21	09:49:59	Pre modification peak	Sample:7-210611A04, Compound:OCF, RT:37.601	
14-Jun-21	09:49:59	Peak modified	Sample:7-210611A04, Compound:OCF, RT:37.601	NA210614MB
14-Jun-21	09:50:15	Pre modification peak	Sample:7-210611A05, Compound:OCF, RT:37.601	
14-Jun-21	09:50:15	Peak modified	Sample:7-210611A05, Compound:OCF, RT:37.601	NA210614MB
14-Jun-21	09:50:34	Pre modification peak	Sample:7-210611A05, Compound:HPF, RT:36.245	
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14-Jun-21	09:50:50	Peak modified	Sample:7-210611A05, Compound:HXF, RT:33.910	NA210614MB
14-Jun-21	09:50:50	Pre modification peak	Sample:7-210611A05, Compound:HXF, RT:33.835	
14-Jun-21	09:50:50	Peak modified	Sample:7-210611A05, Compound:HXF, RT:33.835	NA210614MB
14-Jun-21	09:51:14	Pre modification peak	Sample:7-210611A05, Compound:HXF, RT:34.652	
14-Jun-21	09:51:14	Peak modified	Sample:7-210611A05, Compound:HXF, RT:34.652	NA210614MB
14-Jun-21	09:51:14	Pre modification peak	Sample:7-210611A05, Compound:HXF, RT:34.238	
14-Jun-21	09:51:14	Peak modified	Sample:7-210611A05, Compound:HXF, RT:34.238	NA210614MB
14-Jun-21	09:51:28	Pre modification peak	Sample:7-210611A05, Compound:PF-f2, RT:32.110	
14-Jun-21	09:51:28	Peak modified	Sample:7-210611A05, Compound:PF-f2, RT:32.110	NA210614MB
14-Jun-21	09:51:28	Pre modification peak	Sample:7-210611A05, Compound:PF-f2, RT:31.420	
14-Jun-21	09:51:28	Peak modified	Sample:7-210611A05, Compound:PF-f2, RT:31.420	NA210614MB
14-Jun-21	09:51:47	Pre modification peak	Sample:7-210611A05, Compound:HPD, RT:35.993	
14-Jun-21	09:51:47	Peak modified	Sample:7-210611A05, Compound:HPD, RT:35.993	NA210614MB
14-Jun-21	09:51:57	Pre modification peak	Sample:7-210611A05, Compound:OCD, RT:36.840	
14-Jun-21	09:51:57	Peak modified	Sample:7-210611A05, Compound:OCD, RT:36.840	NA210614MB
14-Jun-21	09:51:57	Pre modification peak	Sample:7-210611A05, Compound:OCD, RT:37.502	
14-Jun-21	09:51:57	Peak modified	Sample:7-210611A05, Compound:OCD, RT:37.502	NA210614MB
14-Jun-21	09:52:15	Pre modification peak	Sample:7-210611A05, Compound:TF, RT:27.597	
14-Jun-21	09:52:15	Peak modified	Sample:7-210611A05, Compound:TF, RT:27.597	NA210614MB
14-Jun-21	09:56:16	Pre modification peak	Sample:7-210611A05, Compound:TD, RT:28.528	

Quantify Audit Report MassLynx MassLynx V4.1 SCN 901

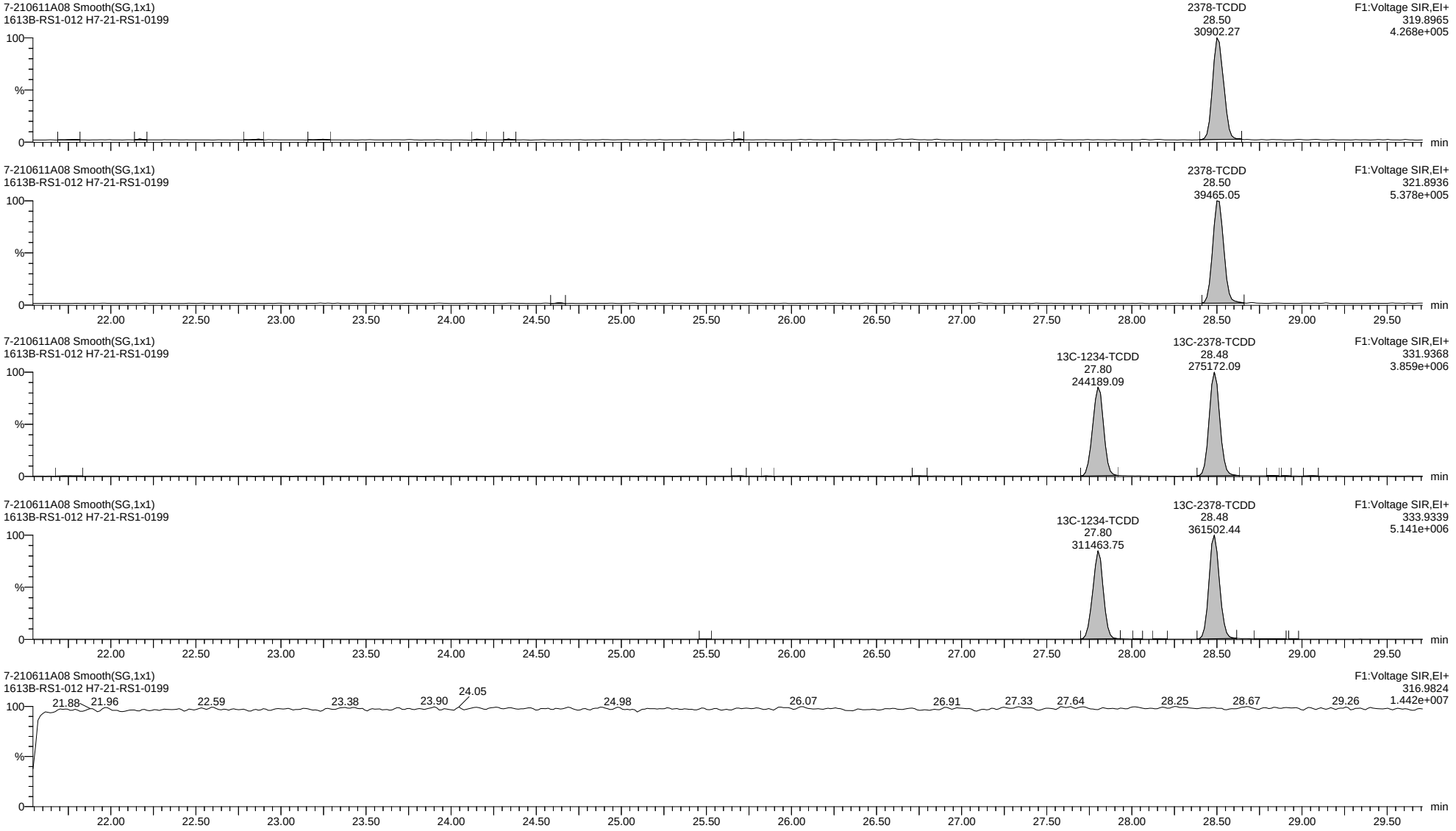
Dataset: I:\Organics Instrument\HIGHRES GCMS Completed Results Files\HR-7\7-210611A-ICAL-1613-QC.qld

Last Altered: Monday, June 14, 2021 09:56:28 Eastern Daylight Time
Printed: Thursday, June 17, 2021 12:18:56 Eastern Daylight Time

Date	Time	Event	Details	Comments
14-Jun-21	09:56:16	Peak modified	Sample:7-210611A05, Compound:TD, RT:28.528	NA210614MB
14-Jun-21	09:56:16	Pre modification peak	Sample:7-210611A05, Compound:TD, RT:28.514	
14-Jun-21	09:56:16	Peak modified	Sample:7-210611A05, Compound:TD, RT:28.514	NA210614MB
14-Jun-21	09:56:26	Pre modification peak	Sample:7-210611A05, Compound:PD, RT:32.318	
14-Jun-21	09:56:26	Peak modified	Sample:7-210611A05, Compound:PD, RT:32.318	NA210614MB
14-Jun-21	09:58:43	Dataset Saved	Saved to 'I:\Organics Instrument\HIGHRES GCMS Complete...	

Method: C:\MassLynx\Dioxin.PRO\MethDB\Dioxin_1613B.mdb 08 Jun 2021 10:17:10
Calibration: C:\MassLynx\Dioxin.PRO\CurveDB\7-210611A-CAL5-1613.cdb 14 Jun 2021 09:35:05

Name: 7-210611A08, Date: 11-Jun-2021, Time: 17:31:55, ID: H7-21-RS1-0199, Description: 1613B-RS1-012, Vial: Tray1:10



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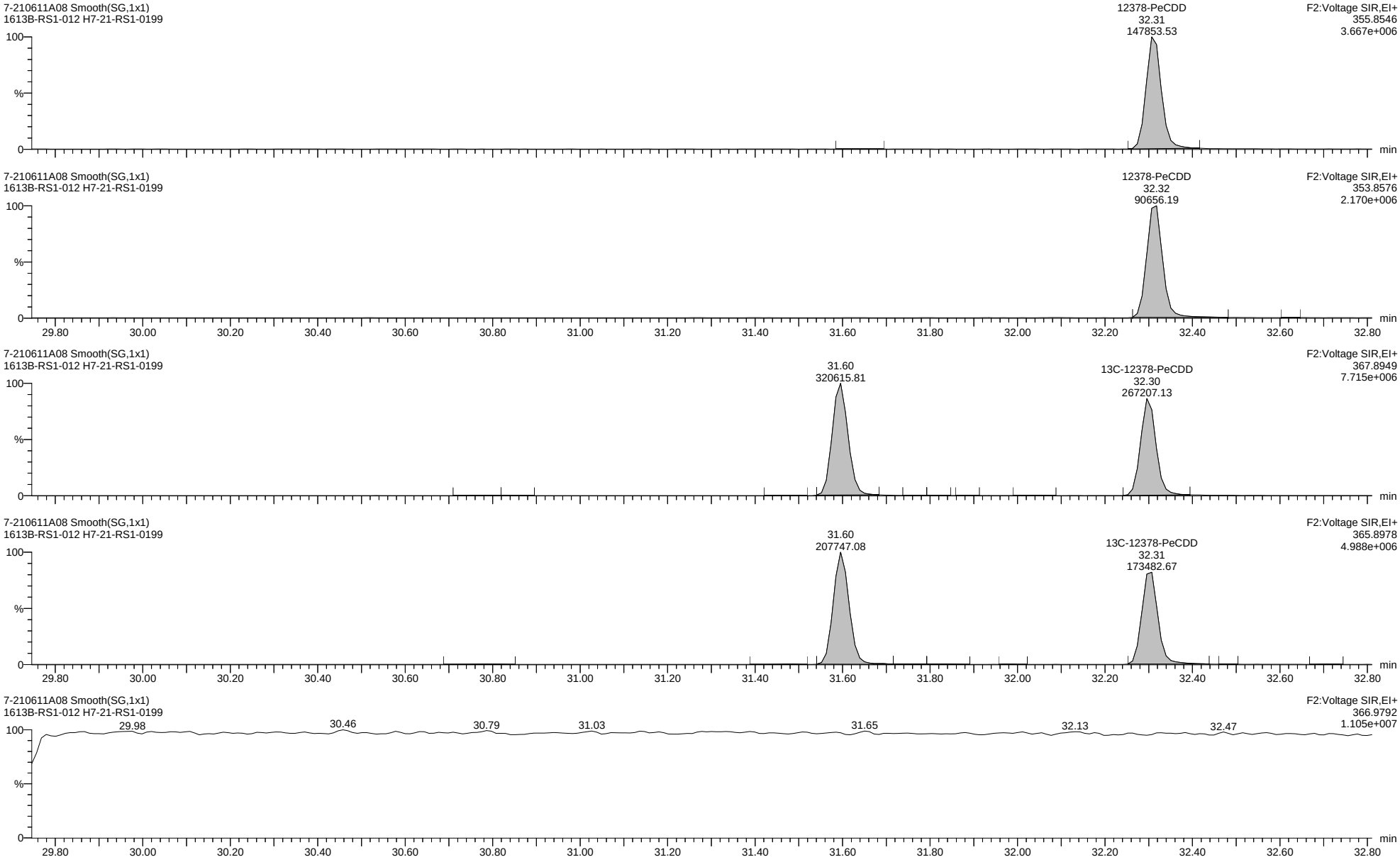

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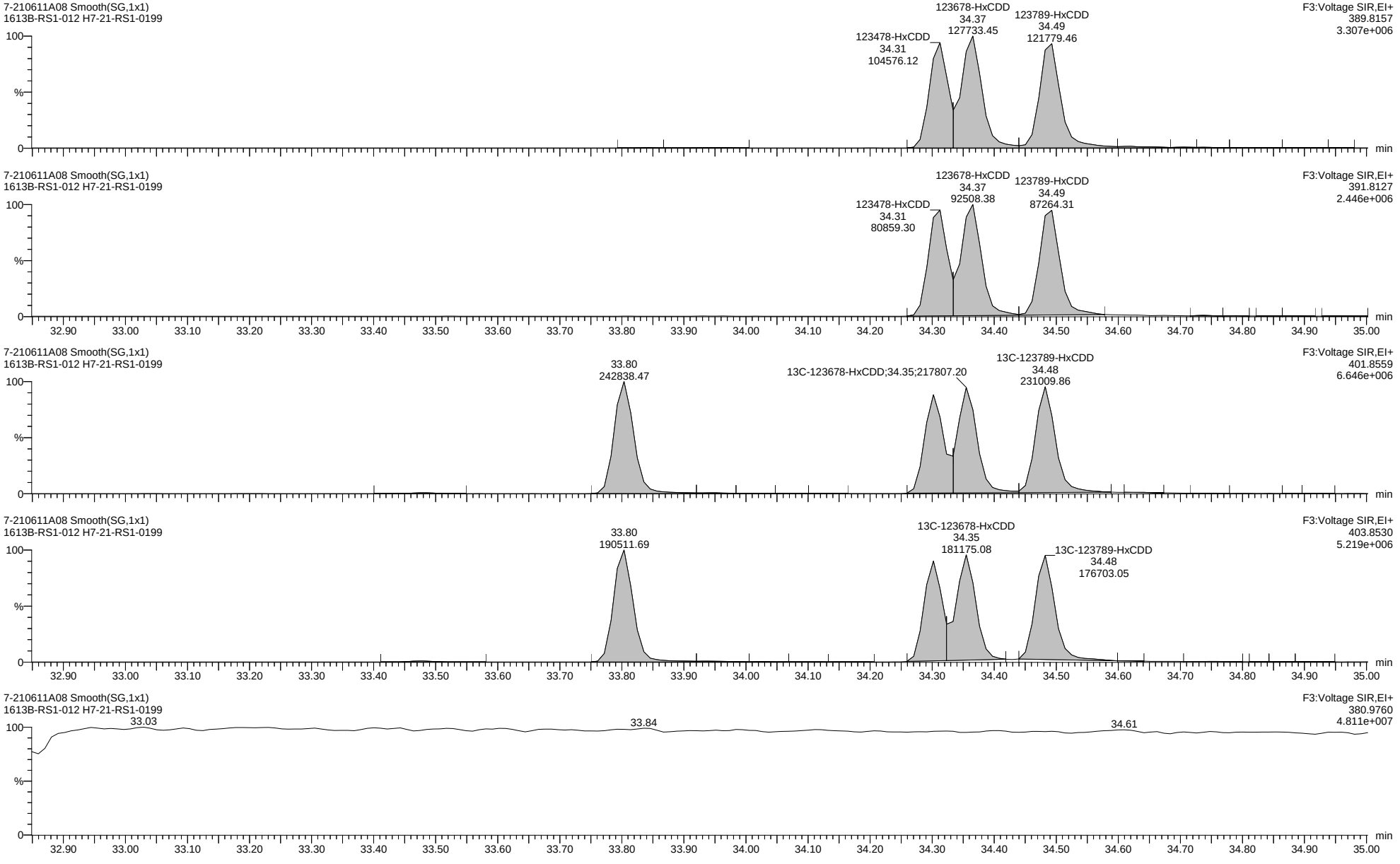

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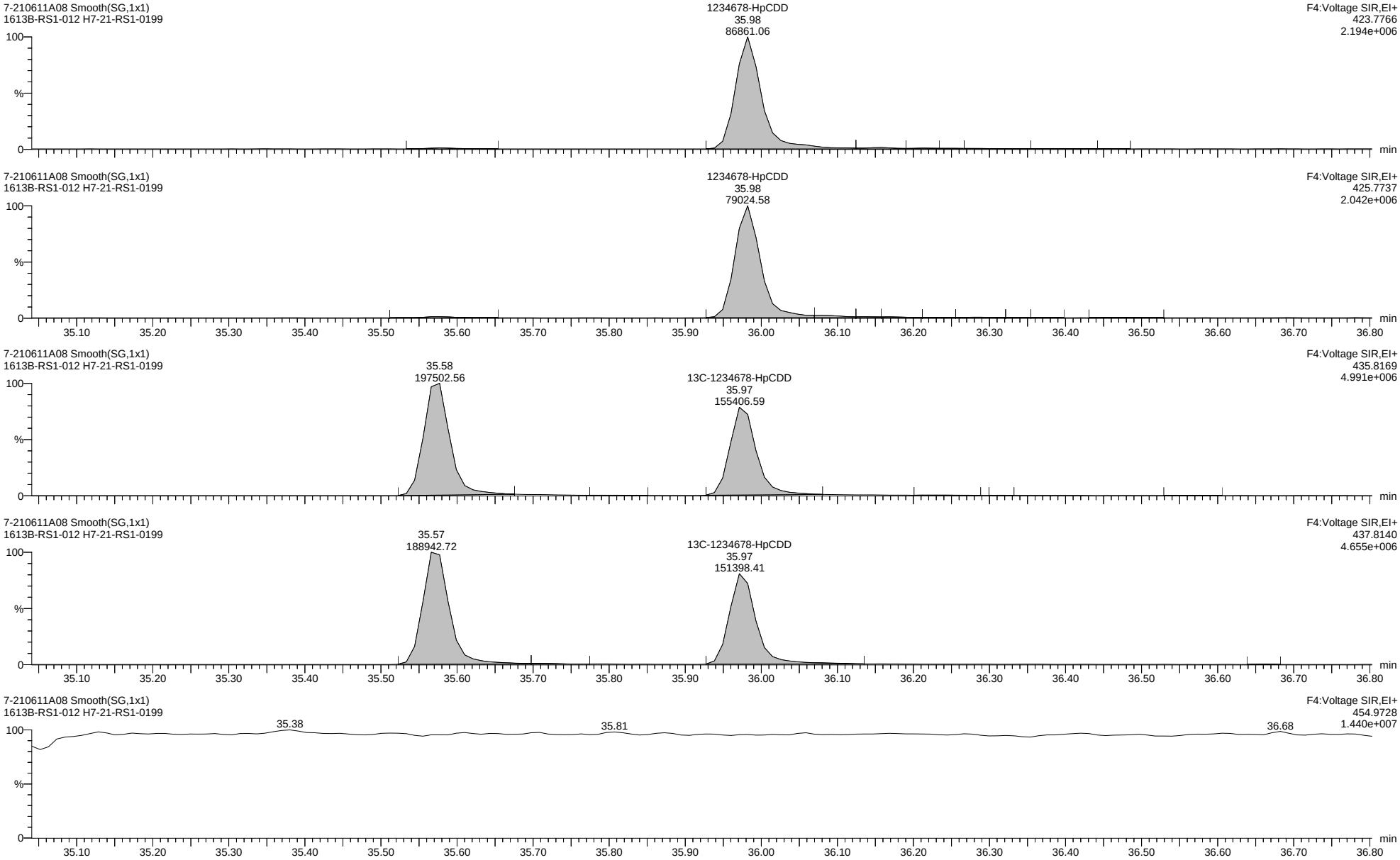

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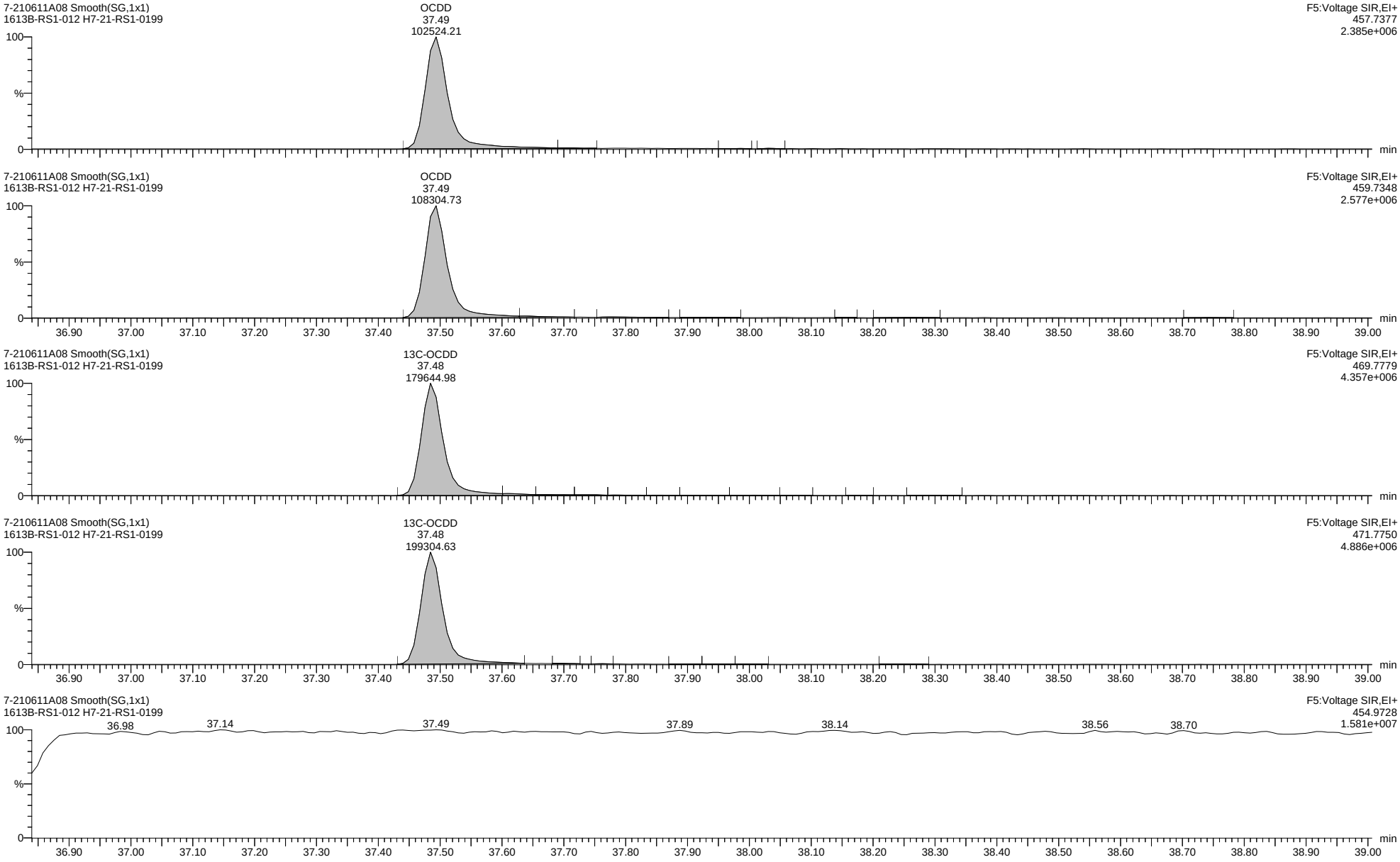

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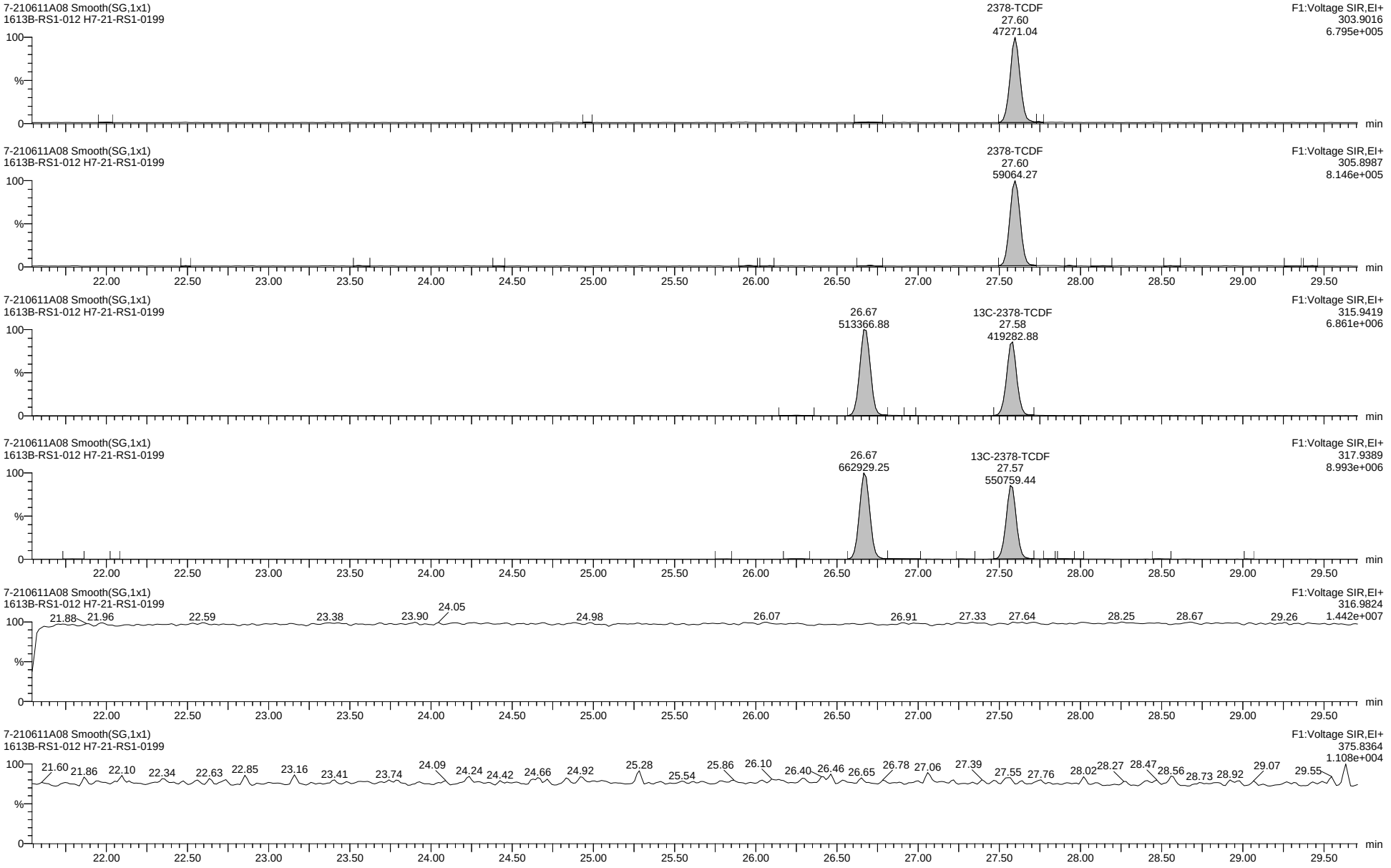

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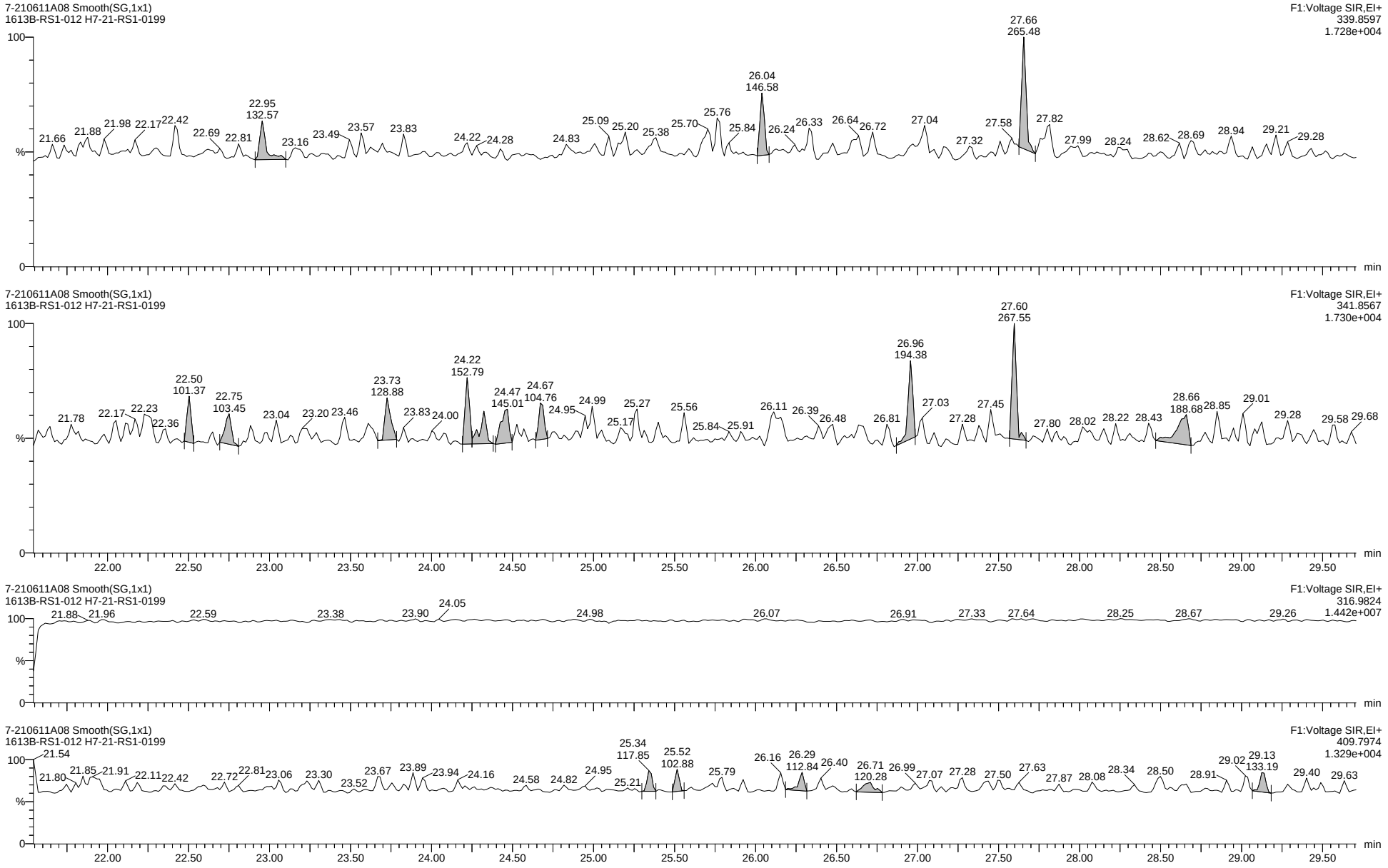

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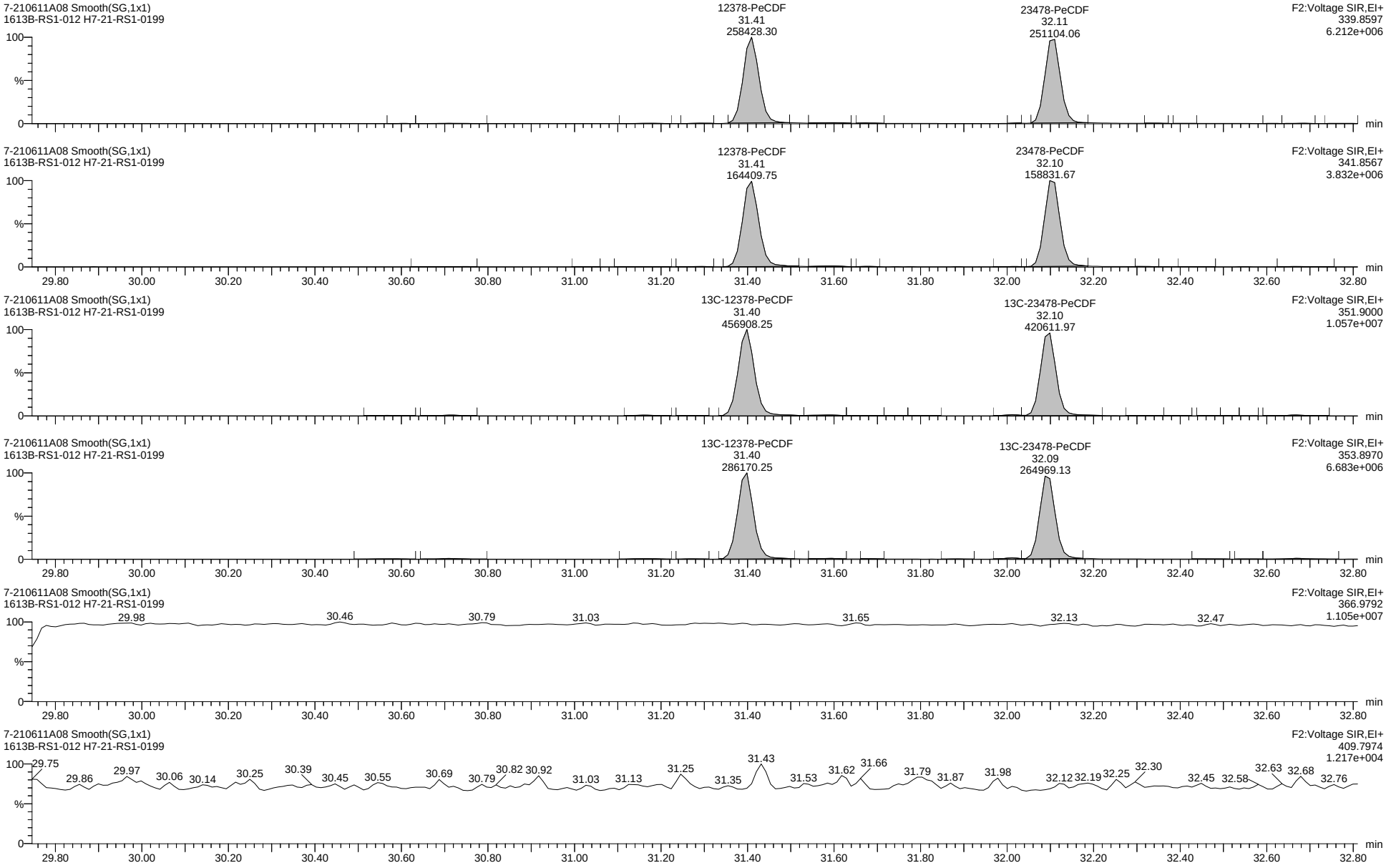

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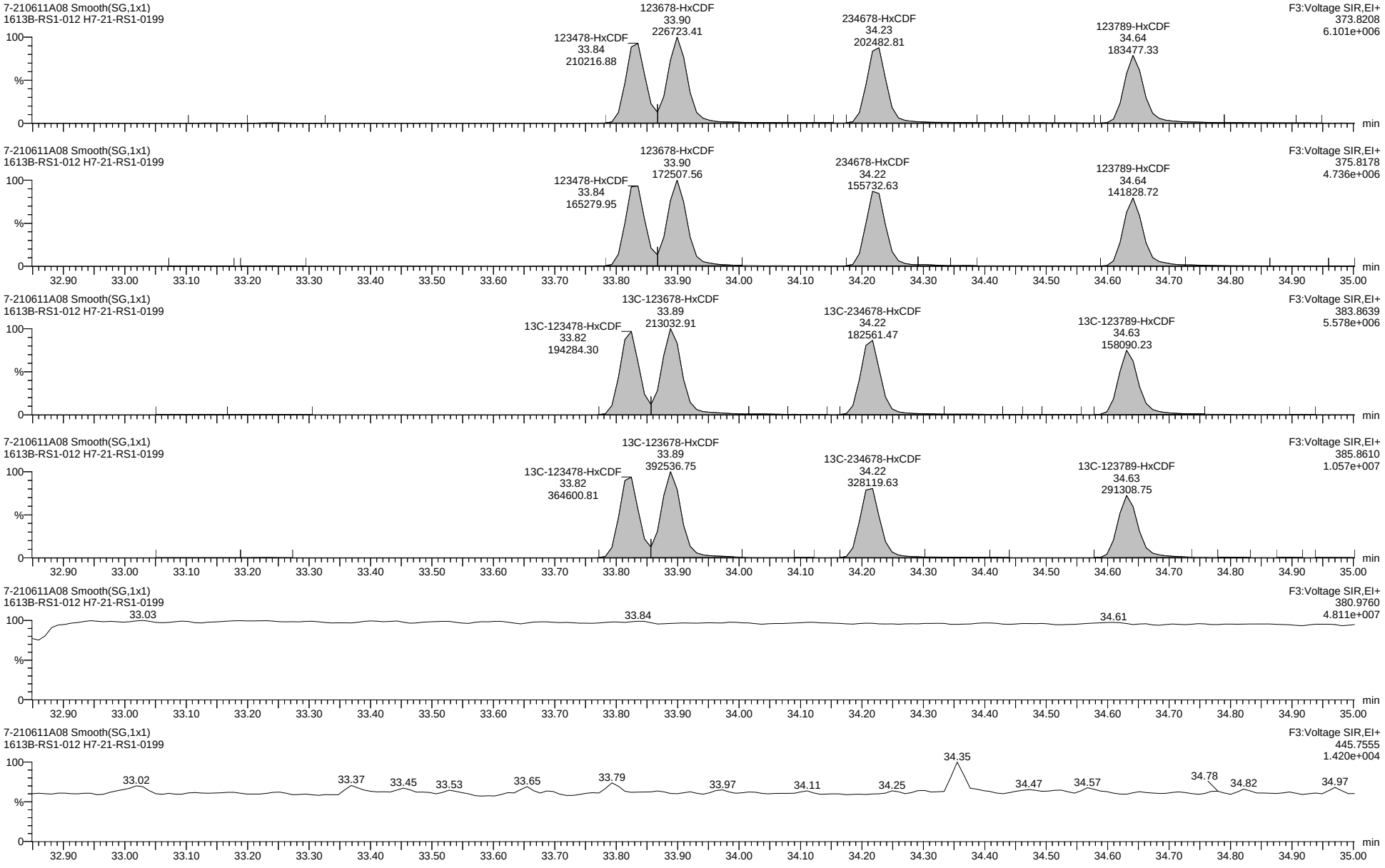

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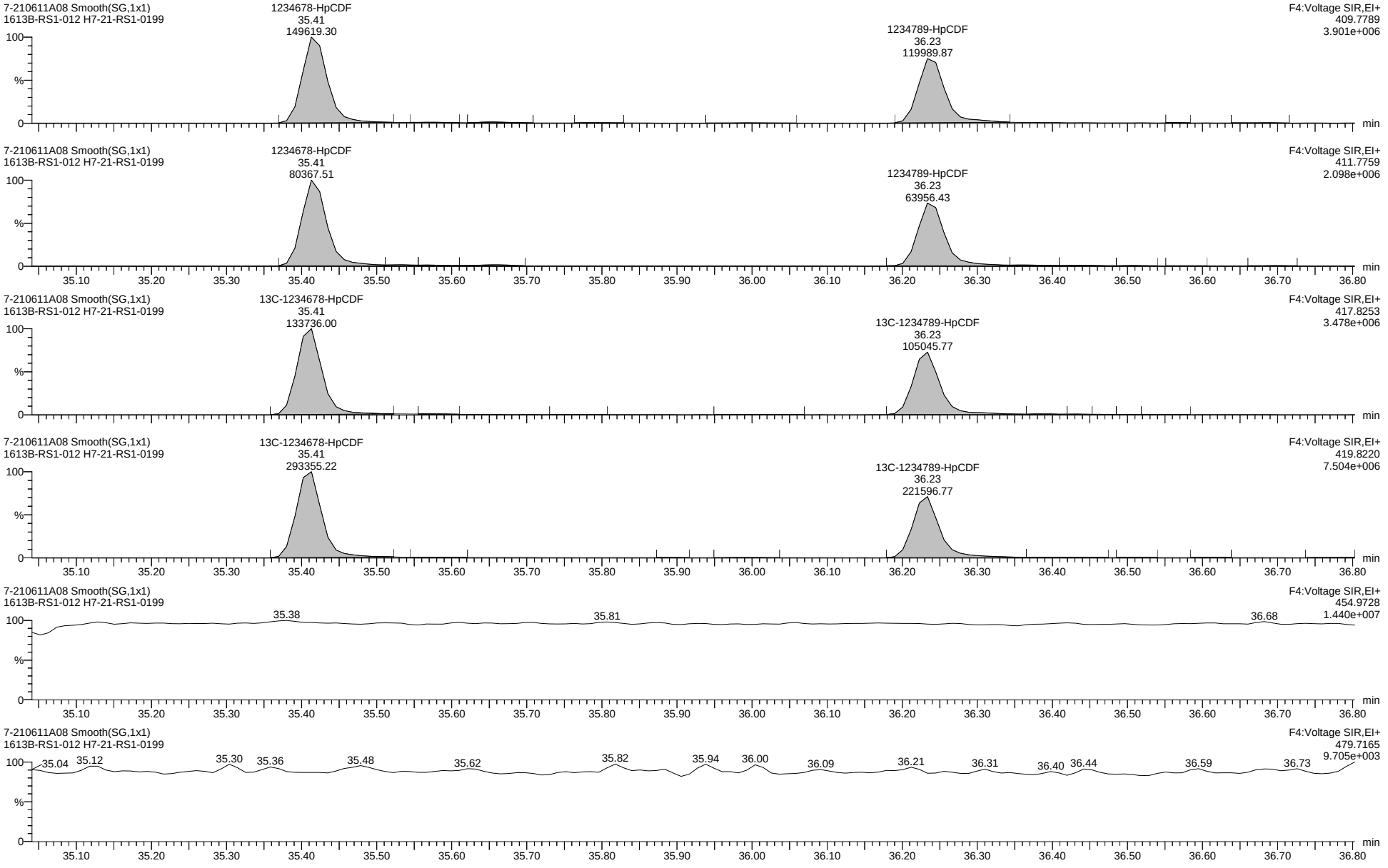
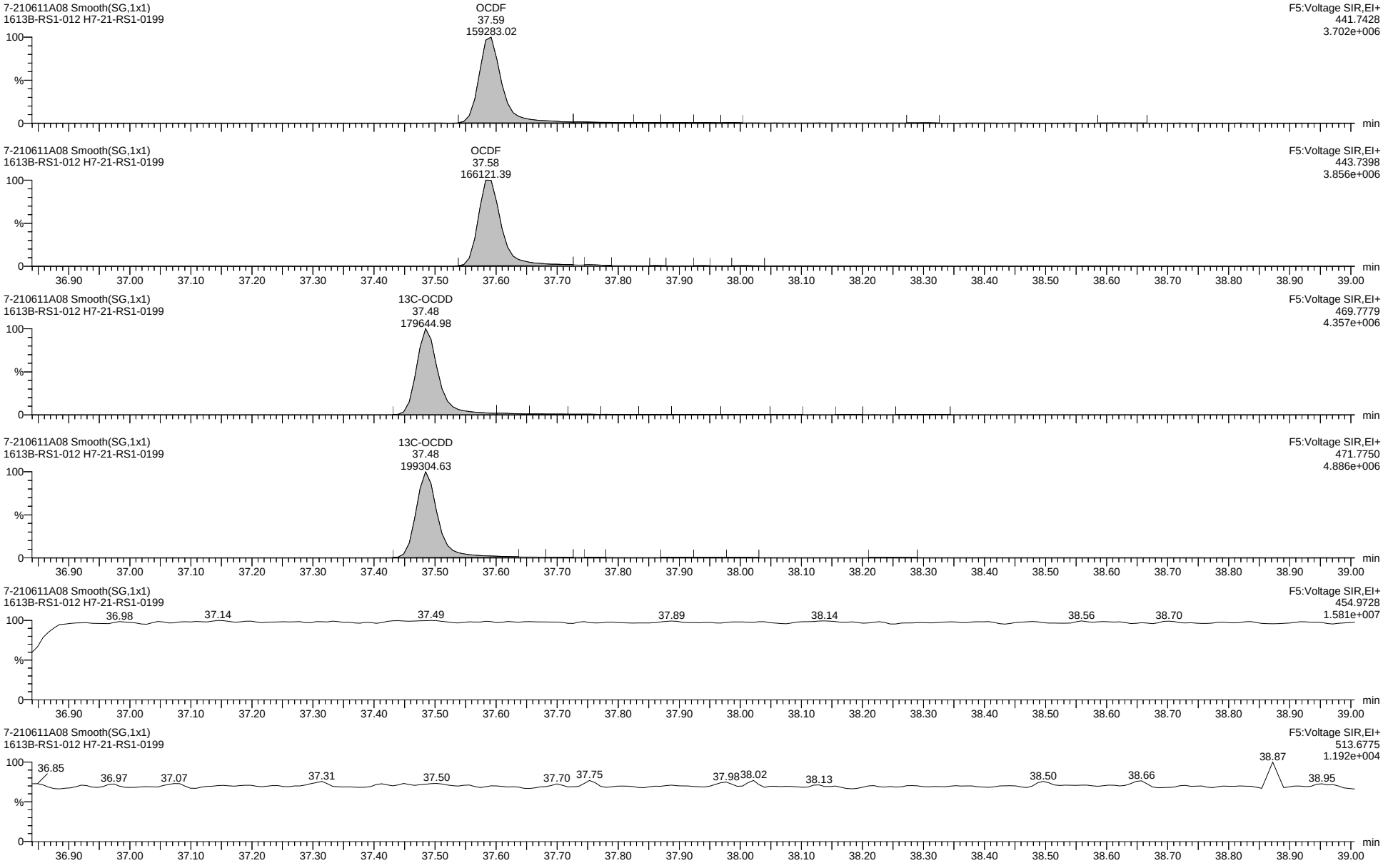


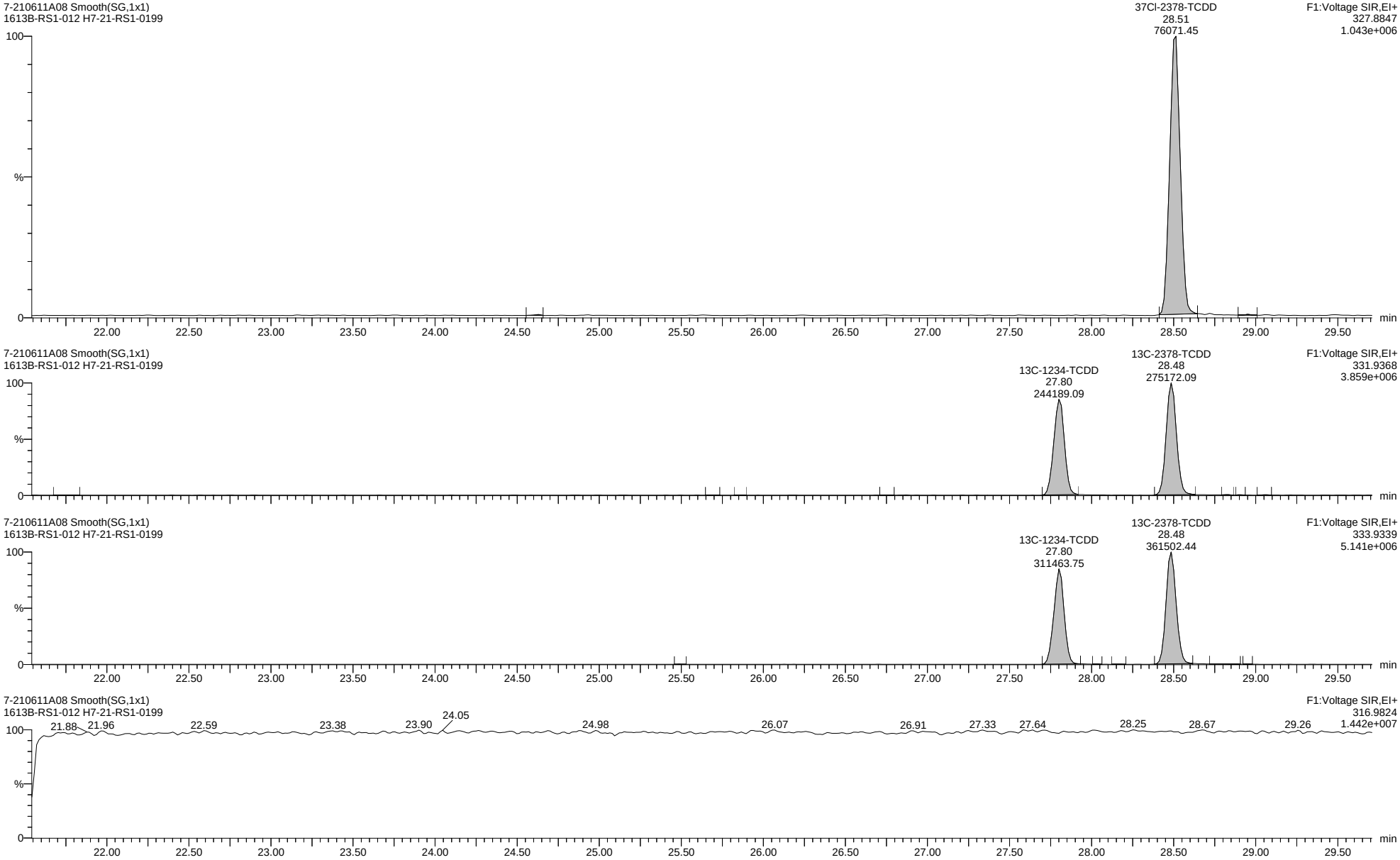
Dataset: I:\Organics Instrument\HIGHRES GCMS Completed Results Files\HR-7\7-210611A-ICAL-1613-QC.qld

Last Altered: Monday, June 14, 2021 09:56:28 Eastern Daylight Time
Printed: Thursday, June 17, 2021 12:18:56 Eastern Daylight Time

Name: 7-210611A08, Date: 11-Jun-2021, Time: 17:31:55, ID: H7-21-RS1-0199, Description: 1613B-RS1-012, Vial: Tray1:10



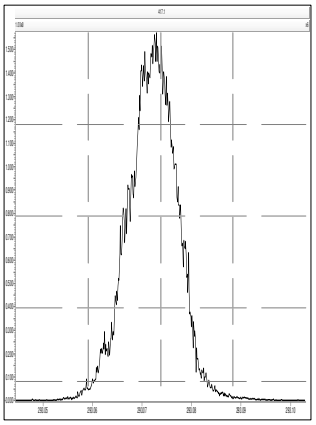
Name: 7-210611A08, Date: 11-Jun-2021, Time: 17:31:55, ID: H7-21-RS1-0199, Description: 1613B-RS1-012, Vial: Tray1:10



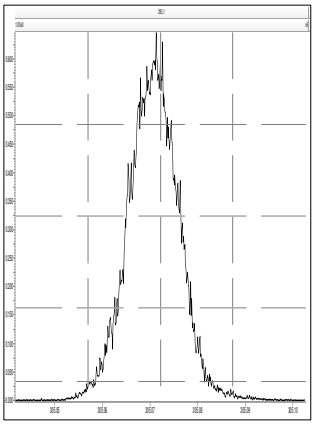
File: Experiment: Dioxin_1613B.exp Reference: Pfk.ref Function: 1 @ 200 (ppm)

Printed: Friday, June 11, 2021 12:03:02 Eastern Daylight Time

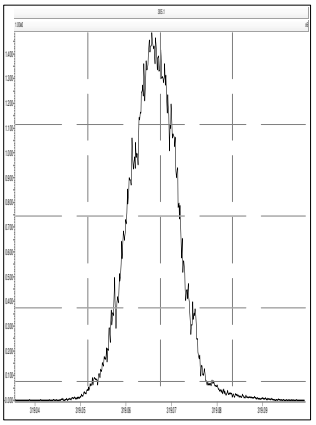
M 292.9824 R 12560



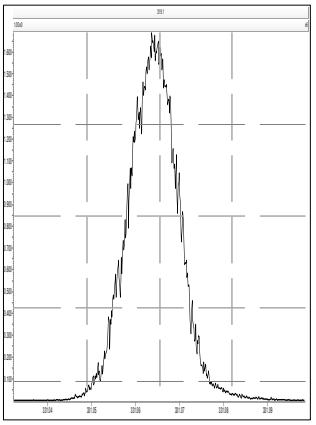
M 304.9824 R 12822



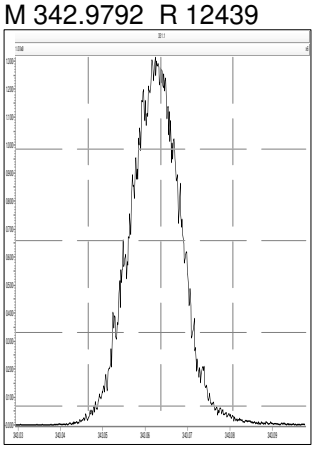
M 318.9792 R 13369



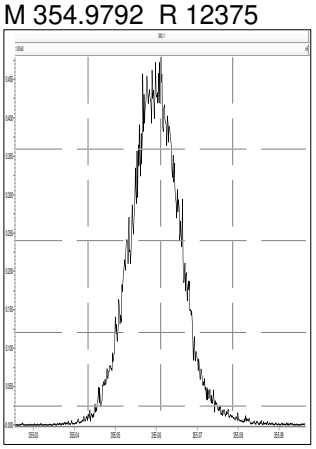
M 330.9792 R 12624



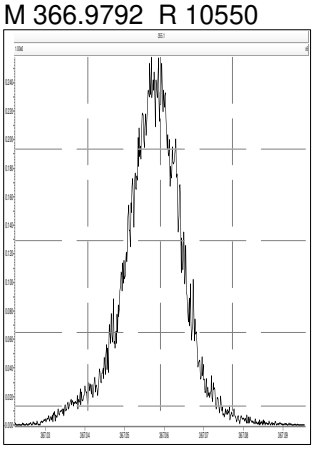
M 342.9792 R 12439



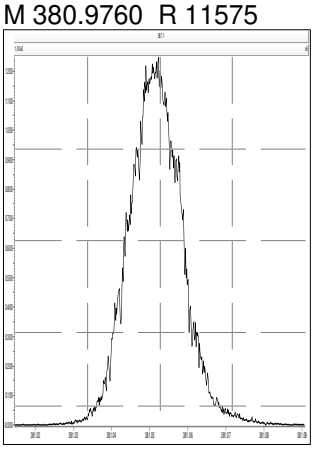
M 354.9792 R 12375



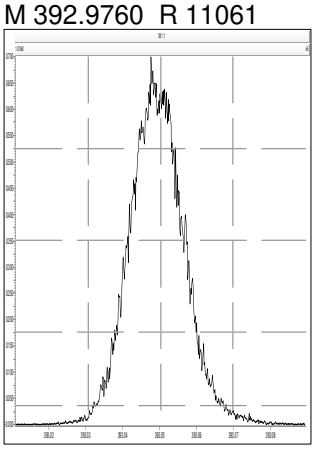
M 366.9792 R 10550



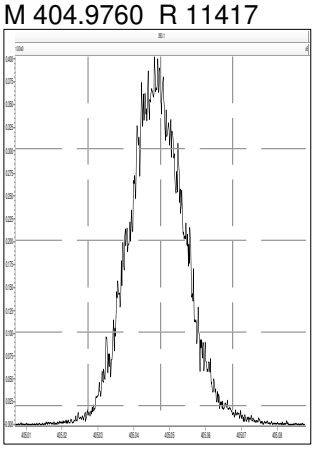
M 380.9760 R 11575



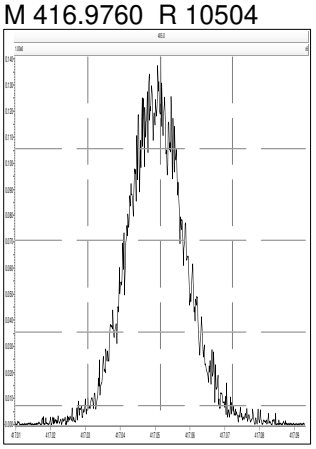
M 392.9760 R 11061



M 404.9760 R 11417



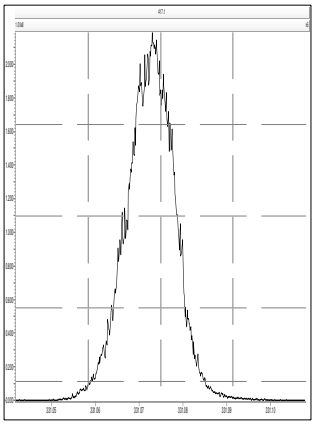
M 416.9760 R 10504



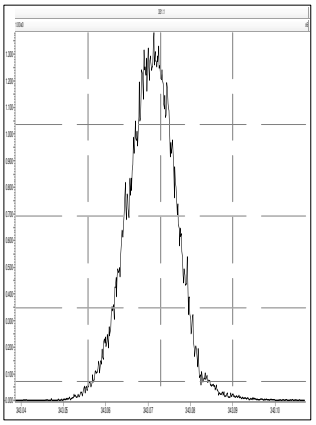
File: Experiment: Dioxin_1613B.exp Reference: Pfk.ref Function: 2 @ 200 (ppm)

Printed: Friday, June 11, 2021 12:03:22 Eastern Daylight Time

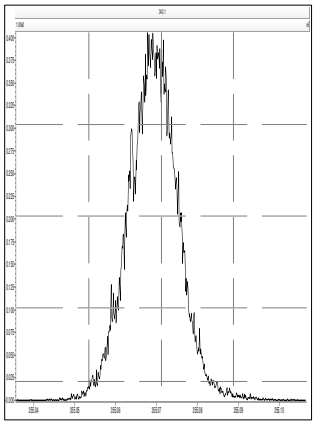
M 330.9792 R 12561



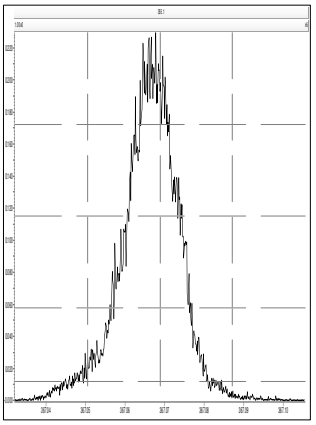
M 342.9792 R 13299



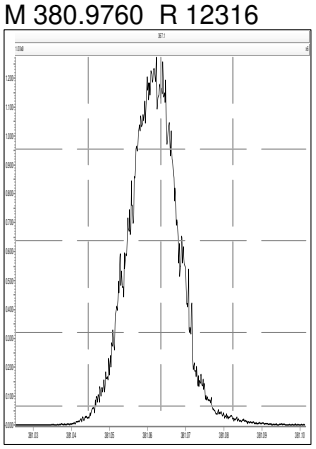
M 354.9792 R 13088



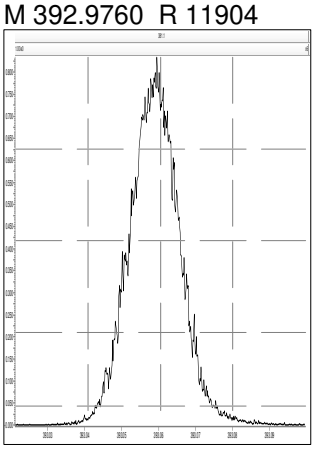
M 366.9792 R 10774



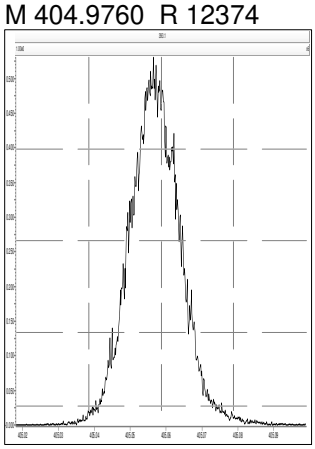
M 380.9760 R 12316



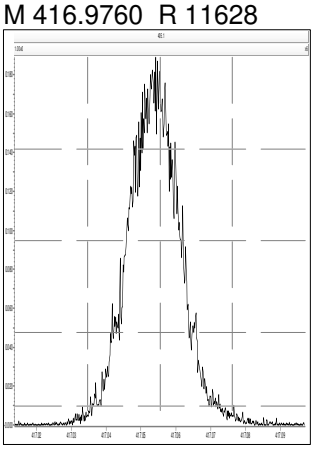
M 392.9760 R 11904



M 404.9760 R 12374



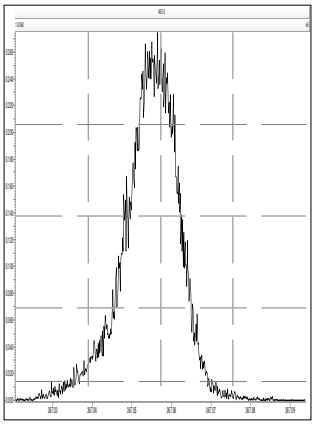
M 416.9760 R 11628



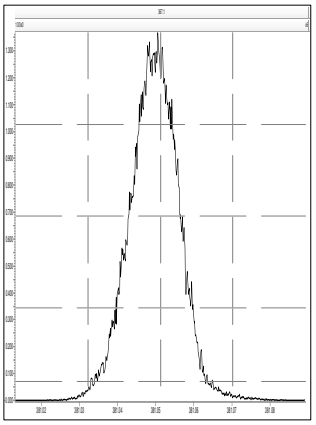
File: Experiment: Dioxin_1613B.exp Reference: Pfk.ref Function: 3 @ 200 (ppm)

Printed: Friday, June 11, 2021 12:03:44 Eastern Daylight Time

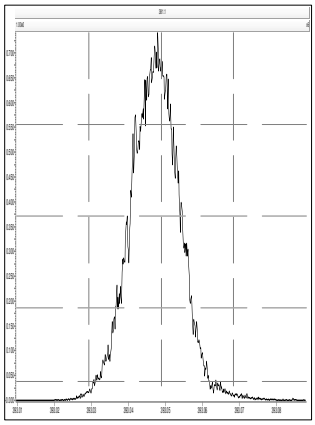
M 366.9792 R 10967



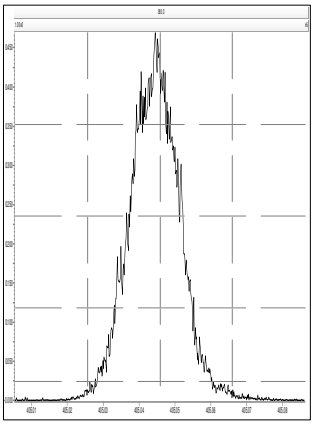
M 380.9760 R 12756



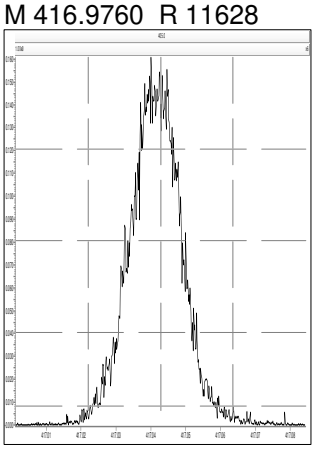
M 392.9760 R 12625



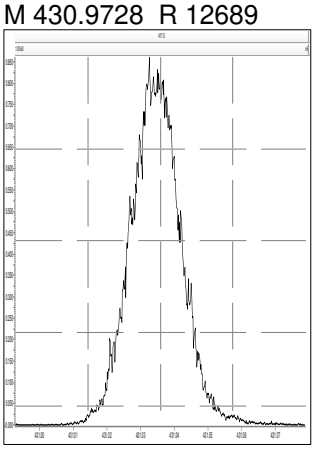
M 404.9760 R 12560



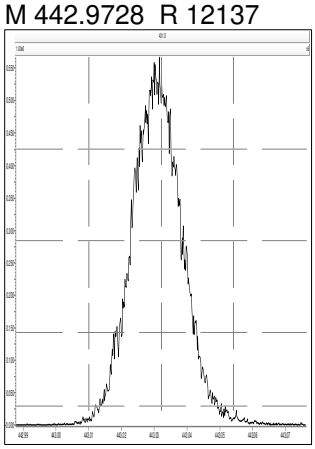
M 416.9760 R 11628



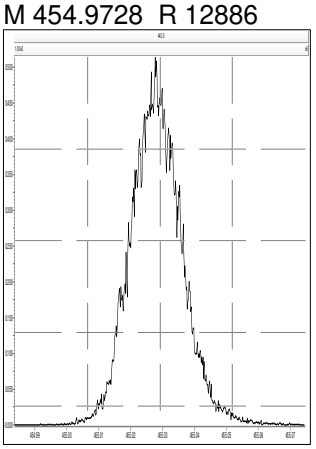
M 430.9728 R 12689



M 442.9728 R 12137



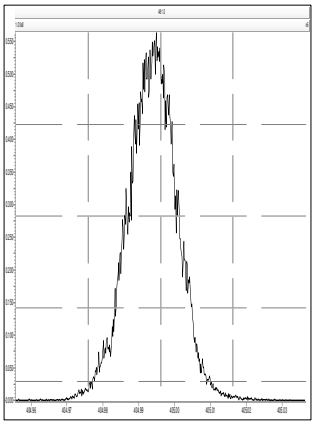
M 454.9728 R 12886



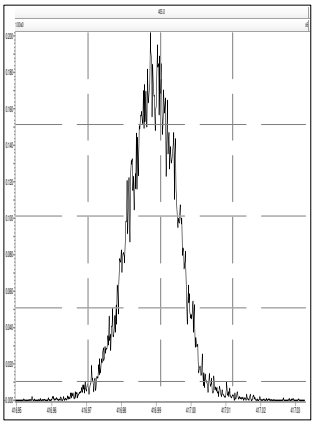
File: Experiment: Dioxin_1613B.exp Reference: Pfk.ref Function: 4 @ 200 (ppm)

Printed: Friday, June 11, 2021 12:04:05 Eastern Daylight Time

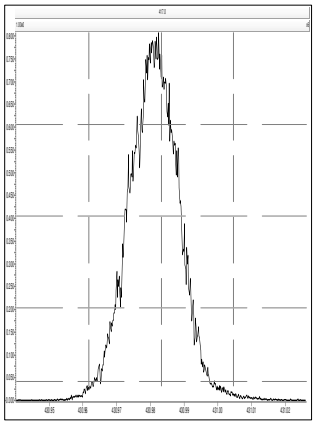
M 404.9760 R 12751



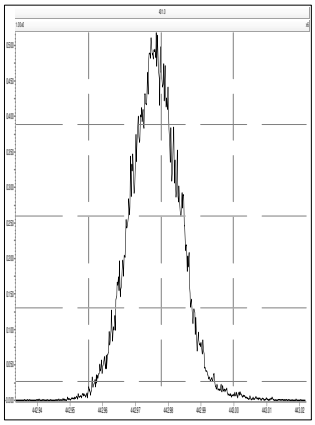
M 416.9760 R 13585



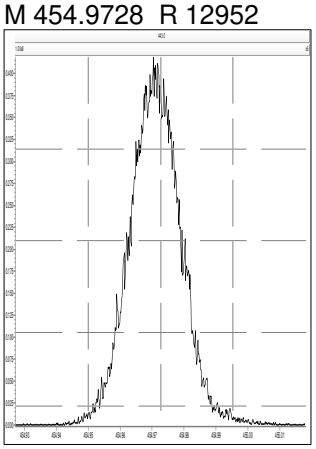
M 430.9728 R 12312



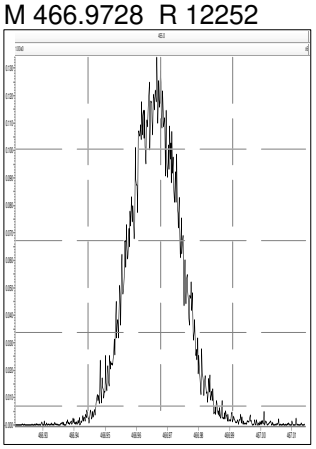
M 442.9728 R 12195



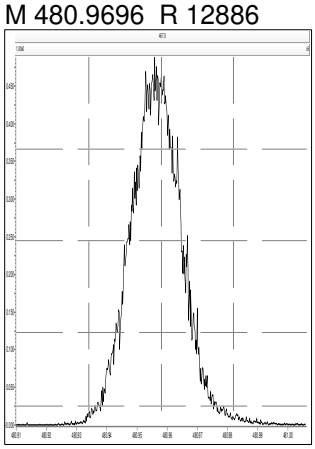
M 454.9728 R 12952



M 466.9728 R 12252



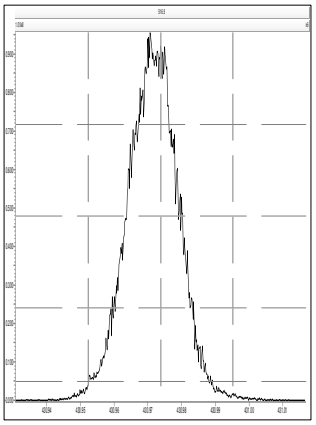
M 480.9696 R 12886



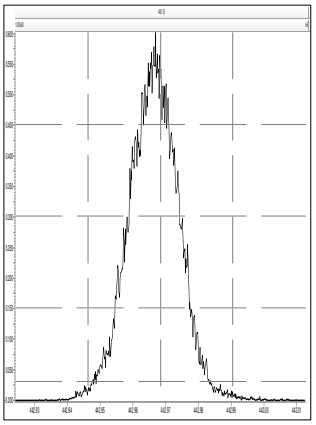
File: Experiment: Dioxin_1613B.exp Reference: Pfk.ref Function: 5 @ 200 (ppm)

Printed: Friday, June 11, 2021 12:04:31 Eastern Daylight Time

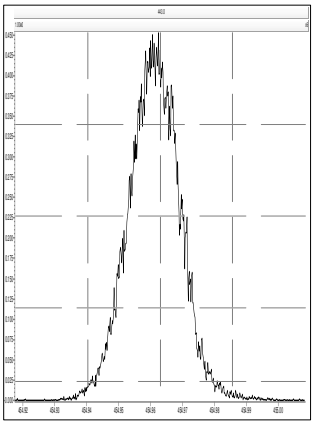
M 430.9728 R 11850



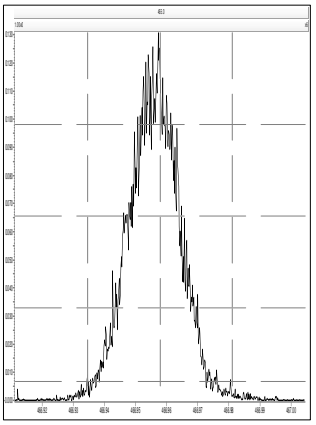
M 442.9728 R 12820



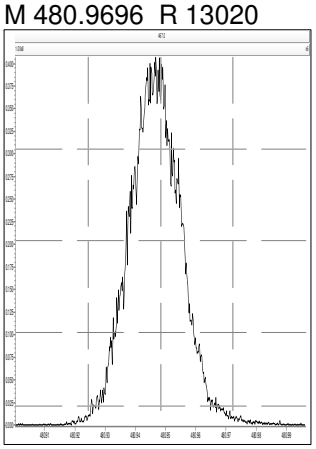
M 454.9728 R 12374



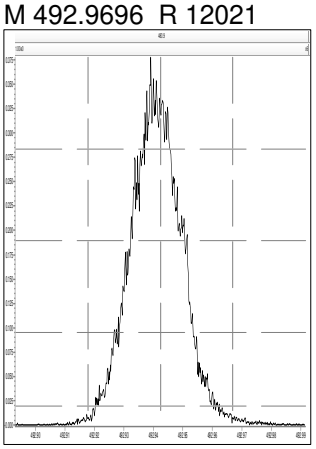
M 466.9728 R 13228



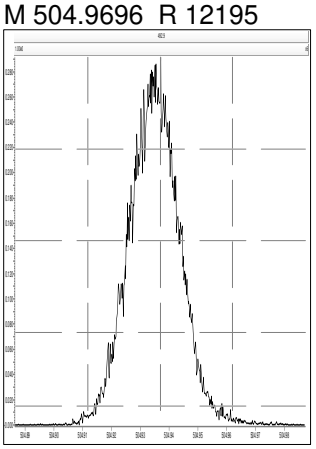
M 480.9696 R 13020



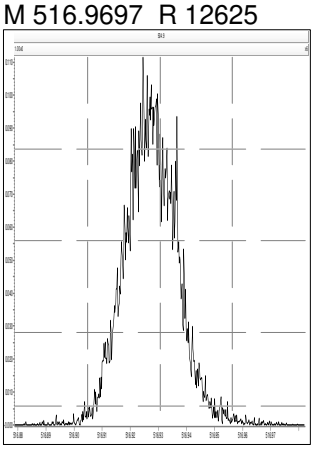
M 492.9696 R 12021



M 504.9696 R 12195



M 516.9697 R 12625



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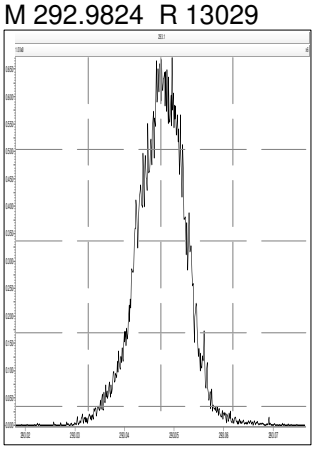
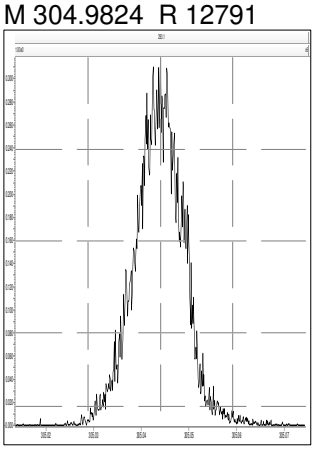
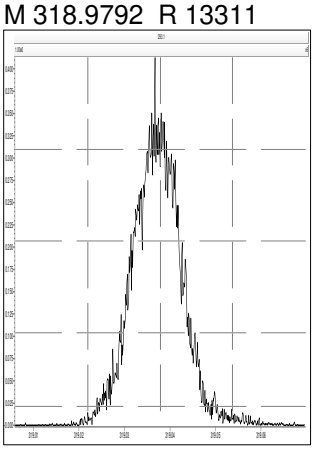
M 292.9824 R 13029



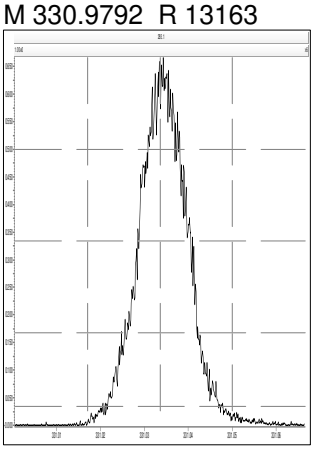
M 304.9824 R 12791



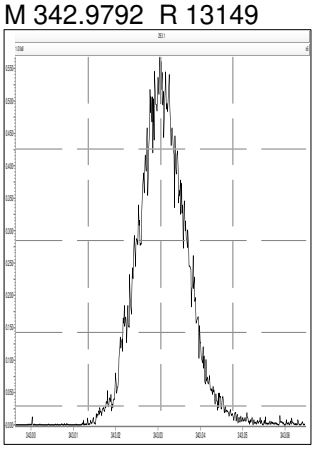
M 318.9792 R 13311



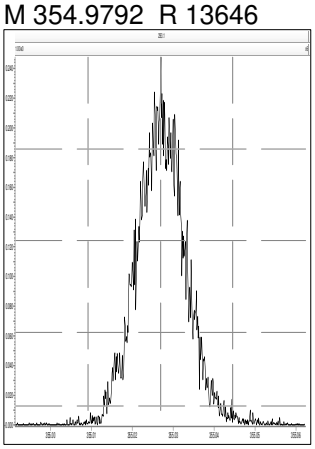
M 330.9792 R 13163



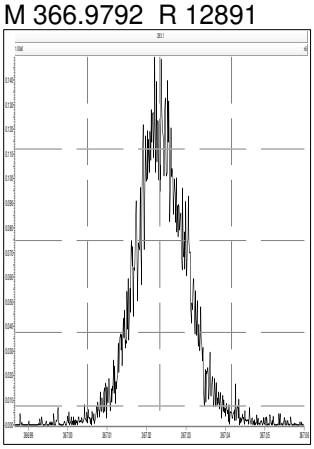
M 342.9792 R 13149



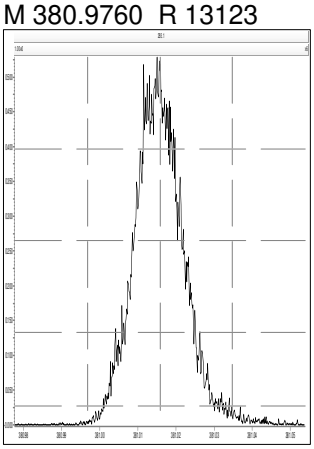
M 354.9792 R 13646



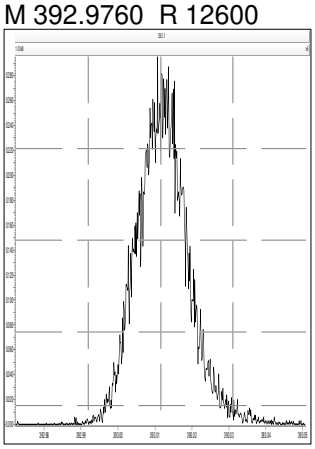
M 366.9792 R 12891



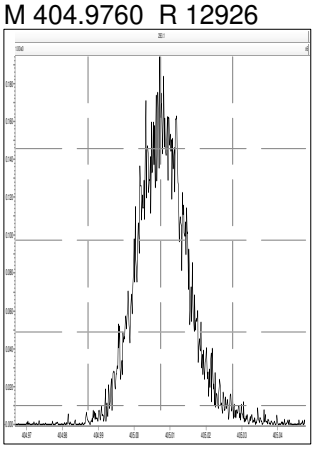
M 380.9760 R 13123



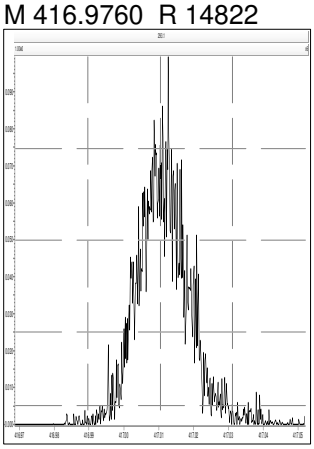
M 392.9760 R 12600



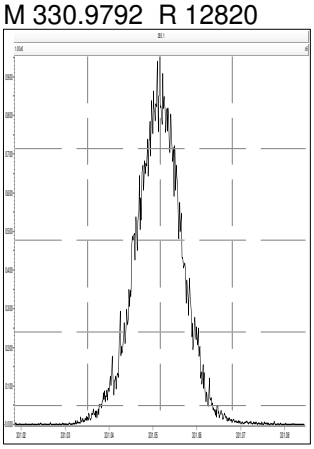
M 404.9760 R 12926



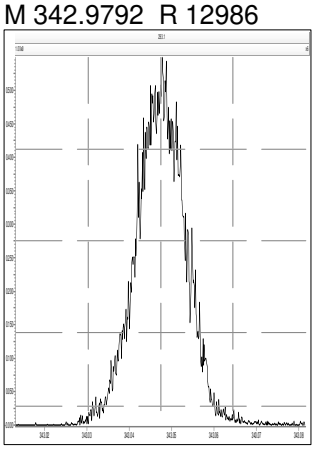
M 416.9760 R 14822



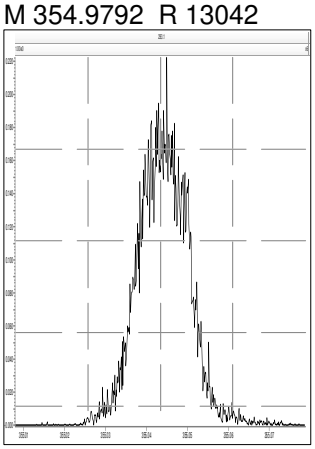
M 330.9792 R 12820



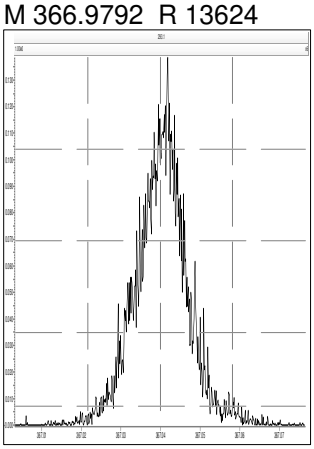
M 342.9792 R 12986



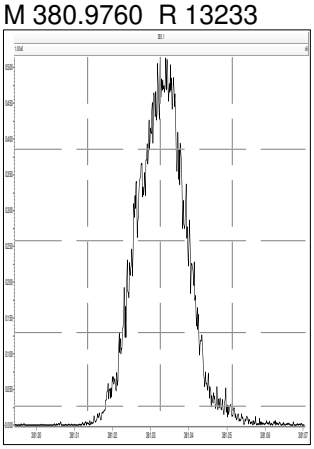
M 354.9792 R 13042



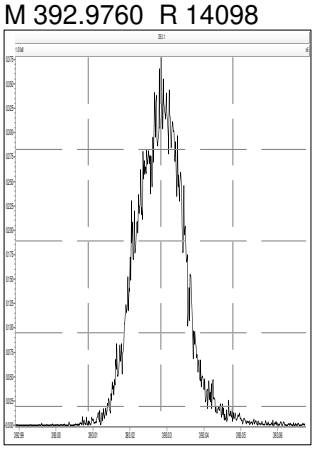
M 366.9792 R 13624



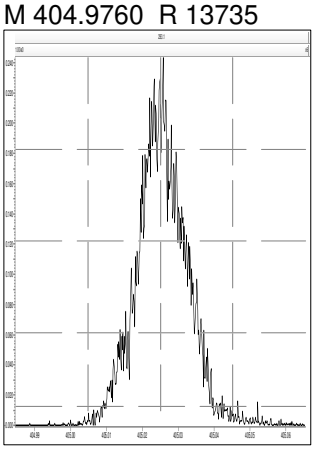
M 380.9760 R 13233



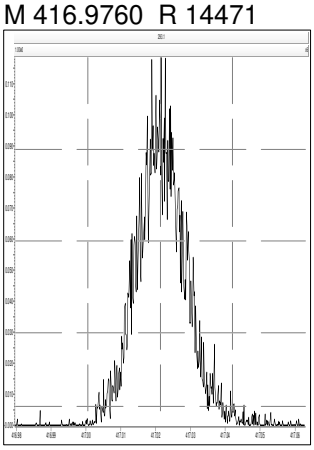
M 392.9760 R 14098



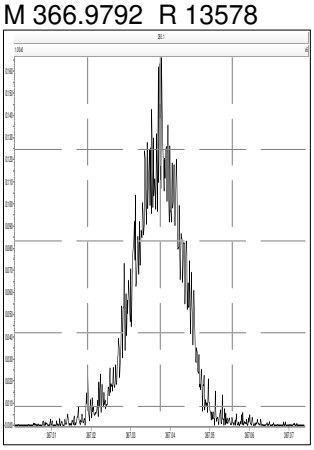
M 404.9760 R 13735



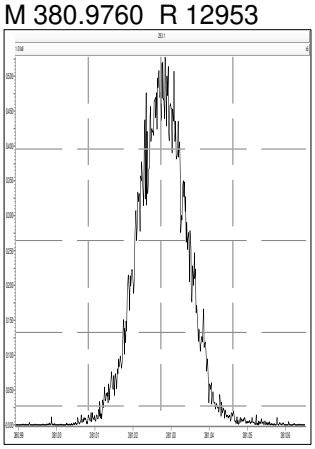
M 416.9760 R 14471



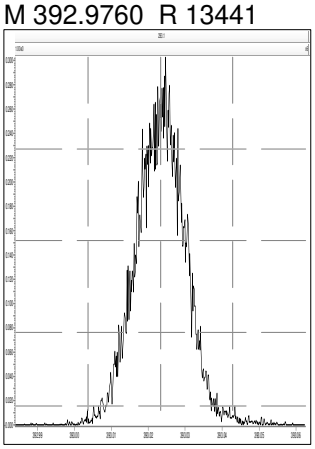
M 366.9792 R 13578



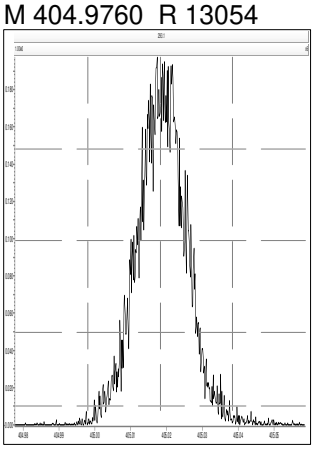
M 380.9760 R 12953



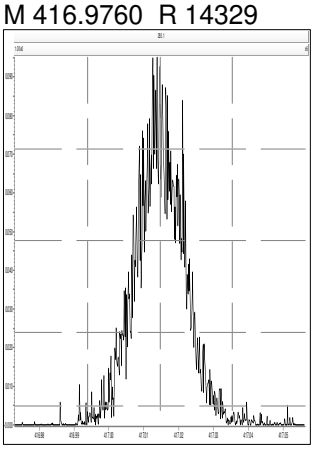
M 392.9760 R 13441



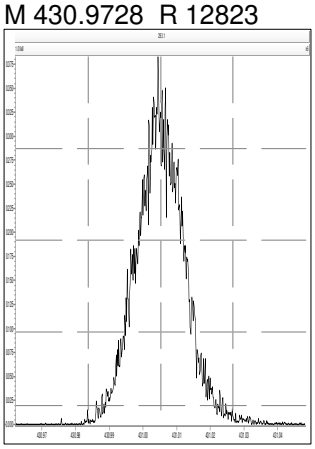
M 404.9760 R 13054



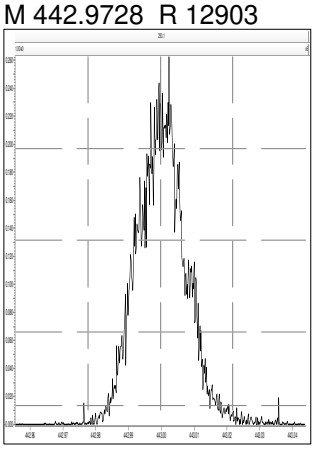
M 416.9760 R 14329



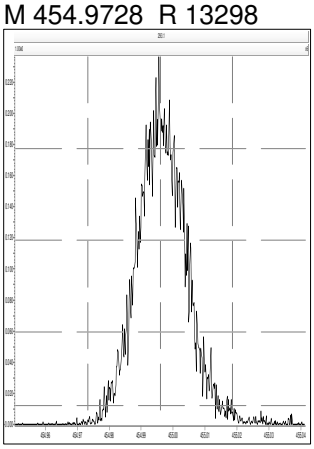
M 430.9728 R 12823



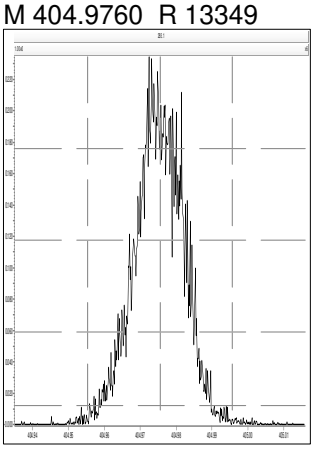
M 442.9728 R 12903



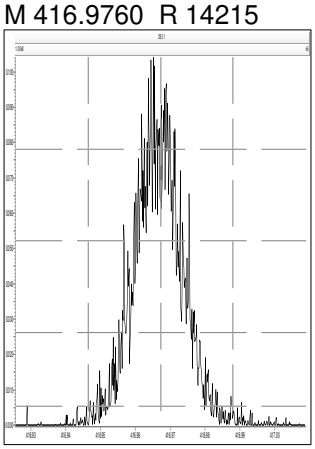
M 454.9728 R 13298



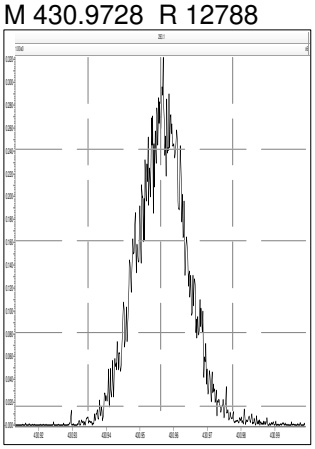
M 404.9760 R 13349



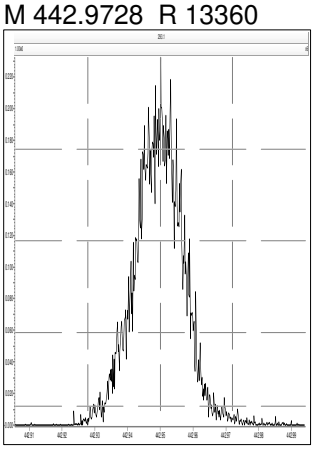
M 416.9760 R 14215



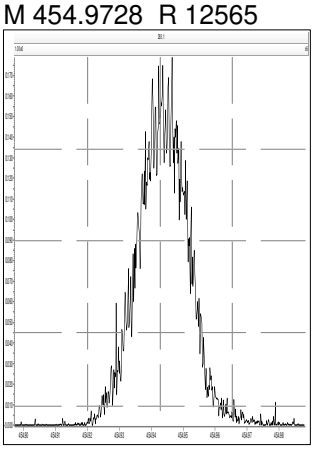
M 430.9728 R 12788



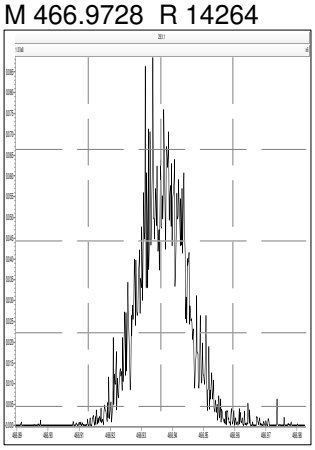
M 442.9728 R 13360



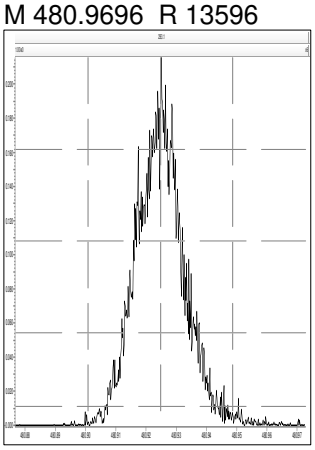
M 454.9728 R 12565



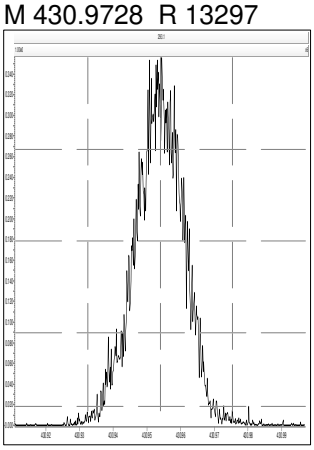
M 466.9728 R 14264



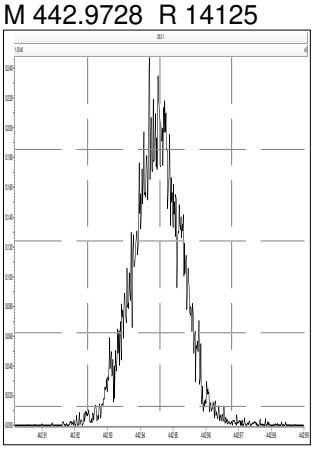
M 480.9696 R 13596



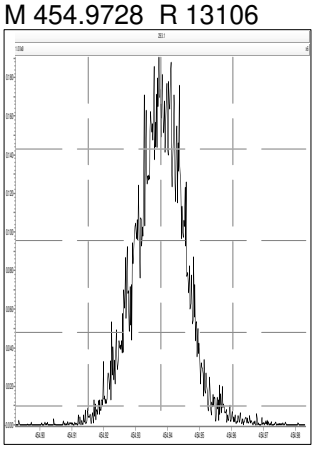
M 430.9728 R 13297



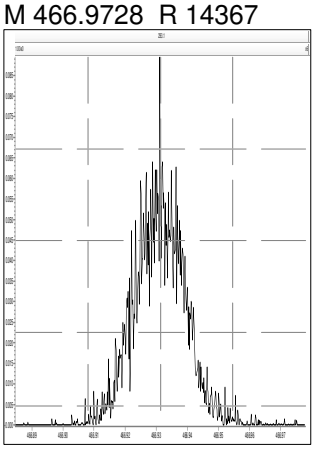
M 442.9728 R 14125



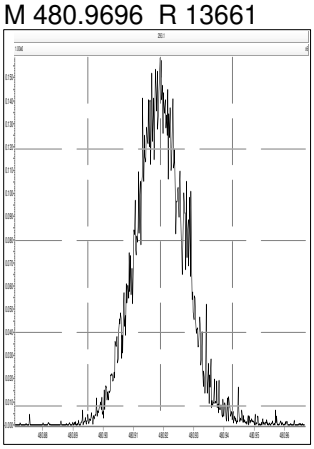
M 454.9728 R 13106



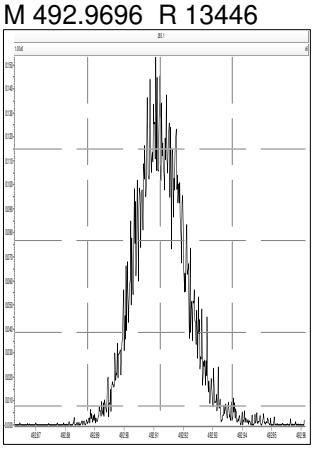
M 466.9728 R 14367



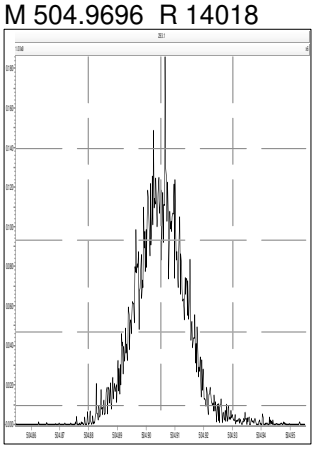
M 480.9696 R 13661



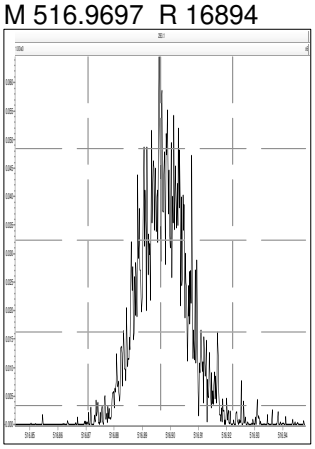
M 492.9696 R 13446



M 504.9696 R 14018



M 516.9697 R 16894



	File Name	Sample ID	File Text	MS File	Inlet File	Vial
1	7-211009A01	H7-21-CCV-600	1613B-CS3+PERF-012	Dioxin_1613B	Dioxin_1613B	Tray1:1
2	7-211009A02	WG3603564-2	LCS	Dioxin_1613B	Dioxin_1613B	Tray1:17
3	7-211009A03	WG3595594-2	LCS	Dioxin_1613B	Dioxin_1613B	Tray1:18
4	7-211009A04	TOLUENE	IB	Dioxin_1613B	Dioxin_1613B	Tray1:15
5	7-211009A05	TOLUENE	IB	Dioxin_1613B	Dioxin_1613B	Tray1:15
6	7-211009A06	NONANE	IB	Dioxin_1613B	Dioxin_1613B	Tray1:16
7	7-211009A07	NONANE	IB	Dioxin_1613B	Dioxin_1613B	Tray1:16
8	7-211009A08	WG3603564-1	MB	Dioxin_1613B	Dioxin_1613B	Tray1:19
9	7-211009A09	WG3595594-1	MB	Dioxin_1613B	Dioxin_1613B	Tray1:20
10	7-211009A10	H7-21-CCV-601	1613B-CS3+PERF-012	Dioxin_1613B	Dioxin_1613B	Tray1:1
11	7-211009A11	L2625428-1	1613	Dioxin_1613B	Dioxin_1613B	Tray1:21
12	7-211009A12	L2625382-11	1613	Dioxin_1613B	Dioxin_1613B	Tray1:22
13	7-211009A13	L2625400-13	1613	Dioxin_1613B	Dioxin_1613B	Tray1:23
14	7-211009A14	L2625409-18	1613	Dioxin_1613B	Dioxin_1613B	Tray1:24
15	7-211009A15	L2625419-5	1613	Dioxin_1613B	Dioxin_1613B	Tray1:25
16	7-211009A16	L2625533-17	1613	Dioxin_1613B	Dioxin_1613B	Tray1:26
17	7-211009A17	L2643545-1	1613	Dioxin_1613B	Dioxin_1613B	Tray1:27
18	7-211009A18	H7-21-CCV-601	1613B-CS3+PERF-012	Dioxin_1613B	Dioxin_1613B	Tray1:1
19	7-211009A19	TOLUENE	IB	Dioxin_1613B	Dioxin_1613B	Tray1:15
20	7-211009A20	NONANE	IB	Dioxin_1613B	Dioxin_1613B	Tray1:16
21	7-211009A21	L2621671-2	1613	Dioxin_1613B	Dioxin_1613B	Tray1:28
22	7-211009A22	L2636775-15	1613	Dioxin_1613B	Dioxin_1613B	Tray1:29
23	7-211009A23	L2636775-16	1613	Dioxin_1613B	Dioxin_1613B	Tray1:30
24	7-211009A24	L2636775-17	1613	Dioxin_1613B	Dioxin_1613B	Tray1:31
25	7-211009A25	L2636775-18	1613	Dioxin_1613B	Dioxin_1613B	Tray1:32
26	7-211009A26	L2636775-19	1613	Dioxin_1613B	Dioxin_1613B	Tray1:33
27	7-211009A27	L2636775-20	1613	Dioxin_1613B	Dioxin_1613B	Tray1:34
28	7-211009A28	L2636775-21	1613	Dioxin_1613B	Dioxin_1613B	Tray1:35
29	7-211009A29	L2636775-22	1613	Dioxin_1613B	Dioxin_1613B	Tray1:36
30	7-211009A30	L2636775-23	1613	Dioxin_1613B	Dioxin_1613B	Tray1:37
31	7-211009A31	L2636775-24	1613	Dioxin_1613B	Dioxin_1613B	Tray1:38
32	7-211009A32	L2636775-25	1613	Dioxin_1613B	Dioxin_1613B	Tray1:39
33	7-211009A33	L2636775-26	1613	Dioxin_1613B	Dioxin_1613B	Tray1:40
34	7-211009A34	L2636775-27	1613	Dioxin_1613B	Dioxin_1613B	Tray1:41
35	7-211009A35	H7-21-CCV-602	1613B-CS3+PERF-012	Dioxin_1613B	Dioxin_1613B	Tray1:1
36	---	---	---	---	---	---
37	---	---	---	---	---	---
38	---	---	Operator: KB	---	---	---
39	---	---	Detector: 380V	---	---	---
40	---	---	Column : DB5MSUS1331822H	---	---	---
41	---	---	---	---	---	---

stopped the run for Maintenance KB 9-Oct-21

Set to WIP. ✓

VPL✓
MRV✓
WIN✓
RT✓
C-CV/CK-
IB✓
IS✓
LM✓
CCV✓

CCV 600 partial injection.

CCV 600 Low ES HxCDD
WG3603564-1 MB high ES HxCDD

	File Name	Sample ID	File Text	Sample Type	Na Conc Te	Na Conc Pe-Hp	Na Conc Oc	ES Conc Te-Hp	ES Conc Oc	Conc IS	Conc CS
1	7-211009A01	H7-21-CCV-600	1613B-CS3+PERF-012	Analyte	10	50	100	100	200	100	10
2	7-211009A10	H7-21-CCV-601	1613B-CS3+PERF-012	Analyte	10	50	100	100	200	100	10
3	7-211009A02	WG3603564-2	LCS	Analyte	400	2000	4000	4000	8000	2000	80
4	7-211009A08	WG3603564-1	MB	Analyte	---	---	---	4000	8000	2000	80

Quantify Sample Summary Report **MassLynx MassLynx V4.1 SCN 901**

Dataset: I:\Organics Instrument\HIGHRES GCMS Completed Results Files\HR-7\2021\2110\7-211009A-1013A.qld

Last Altered: Wednesday, October 13, 2021 13:13:29 Eastern Daylight Time
Printed: Thursday, October 14, 2021 10:49:26 Eastern Daylight Time

Method: C:\MassLynx\Dioxin.PRO\MethDB\Dioxin_1613B.mdb 30 Aug 2021 12:17:57
Calibration: C:\MassLynx\Dioxin.PRO\CurveDB\7-210611A-CAL5-1613.cdb 14 Jun 2021 09:35:05

Name: 7-211009A01, Date: 09-Oct-2021, Time: 02:56:47, ID: H7-21-CCV-600, Description: 1613B-CS3+PERF-012, Vial: Tray1:1

	Target Analyte	#Hom	Total Area	Ion1 Area	Ion2 Area	Ra	Ra Fail=YES	RT	RRT	RT LCL	RT UCL	pg	%Rec	Mod.Comment	Noise 1	Noise 2
1	2378-TCDD		118934	52418	66516	0.79	NO	28.64	1.00	28.61	28.68	9.2499778	92.5		1754	1492
2	12378-PeCDD		368901	225607	143294	1.57	NO	32.39	1.00	32.36	32.43	49.952810	99.9		1860	2256
3	123478-HxCDD		364901	202835	162066	1.25	NO	34.37	1.00	34.33	34.40	53.790615	107.6		2572	813
4	123678-HxCDD		461502	258998	202504	1.28	NO	34.42	1.00	34.39	34.45	49.242163	98.5		2572	813
5	123789-HxCDD		454365	256708	197658	1.30	NO	34.55	1.00	34.51	34.58	57.661184	115.3		2572	813
6	1234678-HpCDD		353259	183479	169780	1.08	NO	36.05	1.00	36.02	36.08	50.871721	101.7		3355	2623
7	OCDD		636798	297815	338984	0.88	NO	37.57	1.00	37.53	37.60	96.422581	96.4		3196	5509
8	2378-TCDF		197769	87595	110174	0.80	NO	27.74	1.00	27.71	27.78	11.974955	119.7	KB211009MB	2854	2205
9	12378-PeCDF		684191	423519	260672	1.62	NO	31.51	1.00	31.47	31.54	50.833833	101.7		7035	5063
10	23478-PeCDF		782082	479849	302233	1.59	NO	32.20	1.00	32.16	32.23	51.425435	102.9		7035	5063
11	123478-HxCDF		678845	378243	300602	1.26	NO	33.90	1.00	33.87	33.93	52.763838	105.5		9163	5438
12	123678-HxCDF		937641	530683	406958	1.30	NO	33.96	1.00	33.93	34.00	52.254355	104.5		9163	5438
13	234678-HxCDF		818392	462267	356126	1.30	NO	34.29	1.00	34.26	34.33	51.439610	102.9		9163	5438
14	123789-HxCDF		621212	344778	276434	1.25	NO	34.71	1.00	34.67	34.74	49.701228	99.4		9163	5438
15	1234678-HpCDF		556509	365825	190683	1.92	NO	35.48	1.00	35.45	35.51	52.231636	104.5		5944	4296
16	1234789-HpCDF		417434	272109	145325	1.87	NO	36.30	1.00	36.27	36.33	50.240586	100.5		5944	4296
17	OCDF		942497	452644	489853	0.92	NO	37.66	1.00	37.63	37.70	101.36136	101.4		4608	3076
18	13C-2378-TCDD		1107415	477263	630152	0.76	NO	28.62	1.03	28.58	28.65	93.962835	94.0		2388	2229
19	13C-12378-PeCDD		744913	452191	292722	1.54	NO	32.38	1.16	32.35	32.42	88.052057	88.1		2778	2290
20	13C-123478-HxCDD		653381	363360	290021	1.25	NO	34.37	0.99	34.33	34.40	76.928577	76.9		1656	5697
21	13C-123678-HxCDD		914747	510078	404669	1.26	NO	34.41	1.00	34.38	34.44	102.81502	102.8		1656	5697
22	13C-1234678-HpCDD		667575	341080	326495	1.04	NO	36.04	1.04	36.00	36.07	101.33457	101.3		6322	5137
23	13C-OCDD		1234803	581337	653466	0.89	NO	37.57	1.09	37.53	37.60	275.46019	137.7		4576	4345
24	13C-2378-TCDF		1563157	687325	875832	0.78	NO	27.73	0.99	27.69	27.76	88.826658	88.8	KB211009MB	4337	3536
25	13C-12378-PeCDF		1221102	751109	469992	1.60	NO	31.50	1.13	31.46	31.53	88.115832	88.1		2813	6631
26	13C-23478-PeCDF		1247946	769892	478054	1.61	NO	32.19	1.15	32.15	32.22	94.788395	94.8		2813	6631
27	13C-123478-HxCDF		968536	337180	631356	0.53	NO	33.89	0.98	33.86	33.92	80.859673	80.9		6654	1948
28	13C-123678-HxCDF		1377479	490912	886568	0.55	NO	33.95	0.98	33.92	33.99	104.49999	104.5		6654	1948
29	13C-234678-HxCDF		1122279	395448	726831	0.54	NO	34.28	0.99	34.25	34.32	100.68530	100.7		6654	1948
30	13C-123789-HxCDF		959099	335145	623954	0.54	NO	34.71	1.00	34.67	34.74	95.394511	95.4		6654	1948
31	13C-1234678-HpCDF		991482	306559	684923	0.45	NO	35.48	1.03	35.45	35.51	108.04136	108.0		5414	5078
32	13C-1234789-HpCDF		751026	240998	510028	0.47	NO	36.30	1.05	36.27	36.33	108.24929	108.2		5414	5078
33	13C-1234-TCDD		1001718	434059	567659	0.76	NO	27.90	0.00	27.87	27.94	125.98923	126.0		2388	2229
34	13C-123789-HxCDD		916552	492653	423899	1.16	NO	34.55	0.00	34.51	34.58	145.58279	145.6		1656	5697

Quantify Sample Summary Report **MassLynx MassLynx V4.1 SCN 901**

Dataset: I:\Organics Instrument\HIGHRES GCMS Completed Results Files\HR-7\2021\2110\7-211009A-1013A.qld

Last Altered: Wednesday, October 13, 2021 13:13:29 Eastern Daylight Time
Printed: Thursday, October 14, 2021 10:49:26 Eastern Daylight Time

Name: 7-211009A01, Date: 09-Oct-2021, Time: 02:56:47, ID: H7-21-CCV-600, Description: 1613B-CS3+PERF-012, Vial: Tray1:1

	Target Analyte	#Hom	Total Area	Ion1 Area	Ion2 Area	Ra	Ra Fail=YES	RT	RRT	RT LCL	RT UCL	pg	%Rec	Mod.Comment	Noise 1	Noise 2
35	37Cl-2378-TCDD		107118	107118				28.64	1.00	28.61	28.68	8.9162090	89.2		1347	
36	Total-Tetradioxins	6		221159								39.138957			1754	
37	Total-Pentadioxins	5		725286								160.60358			1860	
38	Total-Hexadioxins	4		959110								214.42685			2572	
39	Total-Heptadioxins	2		365000								101.74581			3355	
40	Total-OCDD	1		297815								96.422581			3196	
41	Total-Tetrafurans	7		376371								51.458607			2854	
42	Total-PeCDF-F1	1		500437								67.458086			1075	
43	Total-Pentafurans	3		1294594								146.41982			7035	
44	Total-Hexafurans	5		1892449								227.77431			9163	
45	Total-Heptafurans	4		638822								102.59353			5944	
46	Totals-OCDF	3		456128								102.15896			4608	
47	Totals-37Cl-2378-TCDD	5		107803								8.9731772			1347	

Quantify Sample Summary Report **MassLynx MassLynx V4.1 SCN 901**

Dataset: I:\Organics Instrument\HIGHRES GCMS Completed Results Files\HR-7\2021\2110\7-211009A-1013A.qld

Last Altered: Wednesday, October 13, 2021 13:13:29 Eastern Daylight Time
Printed: Thursday, October 14, 2021 10:49:26 Eastern Daylight Time

Name: 7-211009A10, Date: 09-Oct-2021, Time: 09:29:48, ID: H7-21-CCV-601, Description: 1613B-CS3+PERF-012, Vial: Tray1:1

	Target Analyte	#Hom	Total Area	Ion1 Area	Ion2 Area	Ra	Ra Fail=YES	RT	RRT	RT LCL	RT UCL	pg	%Rec	Mod.Comment	Noise 1	Noise 2
1	2378-TCDD		381052	168005	213047	0.79	NO	28.59	1.00	28.55	28.62	9.2387703	92.4		1426	1564
2	12378-PeCDD		1236214	762817	473397	1.61	NO	32.37	1.00	32.34	32.41	50.405426	100.8		2615	4181
3	123478-HxCDD		1167564	651122	516442	1.26	NO	34.36	1.00	34.32	34.39	53.628362	107.3		4346	6002
4	123678-HxCDD		1390731	780922	609809	1.28	NO	34.41	1.00	34.38	34.44	49.346069	98.7		4346	6002
5	123789-HxCDD		1402378	780347	622030	1.25	NO	34.54	1.00	34.50	34.57	57.568995	115.1		4346	6002
6	1234678-HpCDD		989110	500471	488639	1.02	NO	36.04	1.00	36.00	36.07	51.760814	103.5		4390	6916
7	OCDD		1380490	655911	724579	0.91	NO	37.57	1.00	37.53	37.60	99.071771	99.1		4108	4571
8	2378-TCDF		597162	265227	331935	0.80	NO	27.68	1.00	27.65	27.72	11.684843	116.8		3620	3553
9	12378-PeCDF		2270151	1401734	868417	1.61	NO	31.48	1.00	31.44	31.51	51.303163	102.6		10985	6651
10	23478-PeCDF		2437599	1494683	942916	1.59	NO	32.18	1.00	32.14	32.21	50.207959	100.4		10985	6651
11	123478-HxCDF		2214434	1230680	983754	1.25	NO	33.89	1.00	33.86	33.92	52.079197	104.2		4618	8243
12	123678-HxCDF		2732115	1526824	1205291	1.27	NO	33.95	1.00	33.92	33.99	52.203384	104.4		4618	8243
13	234678-HxCDF		2418751	1341097	1077654	1.24	NO	34.28	1.00	34.25	34.32	51.764530	103.5		4618	8243
14	123789-HxCDF		1844526	1048257	796269	1.32	NO	34.70	1.00	34.66	34.73	50.253307	100.5		4618	8243
15	1234678-HpCDF		1565045	1027985	537061	1.91	NO	35.47	1.00	35.44	35.50	50.535721	101.1		7632	7448
16	1234789-HpCDF		1112046	742851	369196	2.01	NO	36.30	1.00	36.27	36.33	50.272390	100.5		7632	7448
17	OCDF		2004775	965178	1039597	0.93	NO	37.66	1.00	37.62	37.69	102.18748	102.2		5474	7145
18	13C-2378-TCDD		3552339	1533815	2018524	0.76	NO	28.57	1.03	28.54	28.61	96.294989	96.3		3876	2883
19	13C-12378-PeCDD		2473840	1521955	951884	1.60	NO	32.36	1.16	32.33	32.39	93.421985	93.4		3031	1871
20	13C-123478-HxCDD		2096929	1170146	926783	1.26	NO	34.36	0.99	34.32	34.39	78.790330	78.8		1044	5182
21	13C-123678-HxCDD		2750774	1544639	1206135	1.28	NO	34.40	1.00	34.37	34.43	98.668478	98.7		1044	5182
22	13C-1234678-HpCDD		1837074	927004	910070	1.02	NO	36.03	1.04	35.99	36.06	88.992239	89.0		5248	6475
23	13C-OCDD		2605303	1263392	1341911	0.94	NO	37.56	1.09	37.52	37.59	185.47574	92.7		7052	5962
24	13C-2378-TCDF		4837131	2144288	2692843	0.80	NO	27.67	0.99	27.64	27.70	87.815699	87.8		9236	3831
25	13C-12378-PeCDF		4014560	2463960	1550601	1.59	NO	31.46	1.13	31.43	31.50	92.551566	92.6		2813	5009
26	13C-23478-PeCDF		3983925	2436328	1547597	1.57	NO	32.16	1.15	32.13	32.20	96.674998	96.7		2813	5009
27	13C-123478-HxCDF		3200958	1120334	2080624	0.54	NO	33.88	0.98	33.85	33.91	85.283258	85.3		2064	1378
28	13C-123678-HxCDF		4017643	1431739	2585905	0.55	NO	33.94	0.98	33.91	33.98	97.268075	97.3		2064	1378
29	13C-234678-HxCDF		3296065	1161001	2135064	0.54	NO	34.27	0.99	34.24	34.30	94.368874	94.4		2064	1378
30	13C-123789-HxCDF		2816506	1007557	1808949	0.56	NO	34.69	1.00	34.65	34.72	89.400222	89.4		2064	1378
31	13C-1234678-HpCDF		2881875	893541	1988334	0.45	NO	35.47	1.03	35.44	35.50	100.21855	100.2		4693	4620
32	13C-1234789-HpCDF		1999471	645274	1354198	0.48	NO	36.29	1.05	36.26	36.32	91.971478	92.0		4693	4620
33	13C-1234-TCDD		3135463	1345340	1790123	0.75	NO	27.86	0.00	27.83	27.89	394.35724	394.4		3876	2883
34	13C-123789-HxCDD		2872033	1603324	1268709	1.26	NO	34.54	0.00	34.50	34.57	456.18628	456.2		1044	5182
35	37Cl-2378-TCDD		354246	354246				28.59	1.00	28.55	28.62	9.4203307	94.2		1942	
36	Total-Tetradioxins	9		741013								40.820438			1426	
37	Total-Pentadioxins	4		2475420								163.67021			2615	

Dataset: I:\Organics Instrument\HIGHRES GCMS Completed Results Files\HR-7\2021\2110\7-211009A-1013A.qld

Last Altered: Wednesday, October 13, 2021 13:13:29 Eastern Daylight Time
Printed: Thursday, October 14, 2021 10:49:26 Eastern Daylight Time

Name: 7-211009A10, Date: 09-Oct-2021, Time: 09:29:48, ID: H7-21-CCV-601, Description: 1613B-CS3+PERF-012, Vial: Tray1:1

	Target Analyte	#Hom	Total Area	Ion1 Area	Ion2 Area	Ra	Ra Fail=YES	RT	RRT	RT LCL	RT UCL	pg	%Rec	Mod.Comment	Noise 1	Noise 2
38	Total-Hexadioxins	5		2994163								216.98256			4346	
39	Total-Heptadioxins	2		1000368								102.51241			4390	
40	Total-OCDD	4		668941								100.93317			4108	
41	Total-Tetrafurans	7		1224062								53.528628			3620	
42	Total-PeCDF-F1	1		1560223								65.414633			1417	
43	Total-Pentafurans	4		4288685								150.08077			10985	
44	Total-Hexafurans	5		5742680								229.89577			4618	
45	Total-Heptafurans	2		1770836								100.80811			7632	
46	Totals-OCDF	1		965178								102.18748			5474	
47	Totals-37Cl-2378-TCDD	15		362541								9.6409064			1942	

Quantify Audit Report MassLynx MassLynx V4.1 SCN 901

Dataset: I:\Organics Instrument\HIGHRES GCMS Completed Results Files\HR-7\2021\2110\7-211009A-1013A.qld

Last Altered: Wednesday, October 13, 2021 13:13:29 Eastern Daylight Time
Printed: Thursday, October 14, 2021 10:49:26 Eastern Daylight Time

Date	Time	Event	Details	Comments
13-Oct-21	13:06:52	Dataset Saved	Saved to 'I:\Organics Instrument\HIGHRES GCMS Complete...	
13-Oct-21	13:08:47	Peak deleted	Sample:7-211009A02, Compound:PF-f1, RT:24.483	
13-Oct-21	13:08:47	Peak deleted	Sample:7-211009A02, Compound:PF-f1, RT:24.206	
13-Oct-21	13:08:47	Peak deleted	Sample:7-211009A02, Compound:PF-f1, RT:22.212	
13-Oct-21	13:08:47	Peak deleted	Sample:7-211009A02, Compound:PF-f1, RT:22.023	
13-Oct-21	13:08:47	Peak deleted	Sample:7-211009A02, Compound:PF-f1, RT:21.892	
13-Oct-21	13:08:47	Peak deleted	Sample:7-211009A02, Compound:PF-f1, RT:29.402	
13-Oct-21	13:08:47	Peak deleted	Sample:7-211009A02, Compound:PF-f1, RT:29.271	
13-Oct-21	13:08:47	Peak deleted	Sample:7-211009A02, Compound:PF-f1, RT:28.601	
13-Oct-21	13:08:47	Peak deleted	Sample:7-211009A02, Compound:PF-f1, RT:27.888	
13-Oct-21	13:08:47	Peak deleted	Sample:7-211009A02, Compound:PF-f1, RT:27.713	
13-Oct-21	13:08:47	Peak deleted	Sample:7-211009A02, Compound:PF-f1, RT:27.422	
13-Oct-21	13:08:47	Peak deleted	Sample:7-211009A02, Compound:PF-f1, RT:26.651	
13-Oct-21	13:08:47	Peak deleted	Sample:7-211009A02, Compound:PF-f1, RT:26.535	
13-Oct-21	13:08:47	Peak deleted	Sample:7-211009A02, Compound:PF-f1, RT:26.142	
13-Oct-21	13:08:47	Peak deleted	Sample:7-211009A02, Compound:PF-f1, RT:25.138	
13-Oct-21	13:08:47	Peak deleted	Sample:7-211009A02, Compound:PF-f1, RT:24.977	
13-Oct-21	13:08:47	Peak deleted	Sample:7-211009A02, Compound:PF-f1, RT:24.905	
13-Oct-21	13:08:47	Peak deleted	Sample:7-211009A02, Compound:PF-f1, RT:24.628	
13-Oct-21	13:08:54	Peak deleted	Sample:7-211009A03, Compound:PF-f1, RT:28.950	
13-Oct-21	13:08:54	Peak deleted	Sample:7-211009A03, Compound:PF-f1, RT:28.528	
13-Oct-21	13:08:54	Peak deleted	Sample:7-211009A03, Compound:PF-f1, RT:27.422	
13-Oct-21	13:08:54	Peak deleted	Sample:7-211009A03, Compound:PF-f1, RT:27.320	
13-Oct-21	13:08:54	Peak deleted	Sample:7-211009A03, Compound:PF-f1, RT:27.102	
13-Oct-21	13:08:54	Peak deleted	Sample:7-211009A03, Compound:PF-f1, RT:26.869	
13-Oct-21	13:08:54	Peak deleted	Sample:7-211009A03, Compound:PF-f1, RT:25.647	
13-Oct-21	13:08:54	Peak deleted	Sample:7-211009A03, Compound:PF-f1, RT:25.589	
13-Oct-21	13:08:54	Peak deleted	Sample:7-211009A03, Compound:PF-f1, RT:23.158	
13-Oct-21	13:08:54	Peak deleted	Sample:7-211009A03, Compound:PF-f1, RT:22.882	
13-Oct-21	13:08:54	Peak deleted	Sample:7-211009A03, Compound:PF-f1, RT:22.358	
13-Oct-21	13:08:54	Peak deleted	Sample:7-211009A03, Compound:PF-f1, RT:21.979	
13-Oct-21	13:08:54	Peak deleted	Sample:7-211009A03, Compound:PF-f1, RT:21.776	
13-Oct-21	13:08:54	Peak deleted	Sample:7-211009A03, Compound:PF-f1, RT:29.154	
13-Oct-21	13:08:58	Peak deleted	Sample:7-211009A08, Compound:PF-f1, RT:26.695	
13-Oct-21	13:08:58	Peak deleted	Sample:7-211009A08, Compound:PF-f1, RT:25.589	
13-Oct-21	13:08:58	Peak deleted	Sample:7-211009A08, Compound:PF-f1, RT:24.905	
13-Oct-21	13:08:58	Peak deleted	Sample:7-211009A08, Compound:PF-f1, RT:24.599	
13-Oct-21	13:08:58	Peak deleted	Sample:7-211009A08, Compound:PF-f1, RT:23.871	
13-Oct-21	13:08:58	Peak deleted	Sample:7-211009A08, Compound:PF-f1, RT:23.755	
13-Oct-21	13:08:58	Peak deleted	Sample:7-211009A08, Compound:PF-f1, RT:23.333	
13-Oct-21	13:08:58	Peak deleted	Sample:7-211009A08, Compound:PF-f1, RT:21.936	
13-Oct-21	13:08:58	Peak deleted	Sample:7-211009A08, Compound:PF-f1, RT:29.140	
13-Oct-21	13:08:58	Peak deleted	Sample:7-211009A08, Compound:PF-f1, RT:28.979	
13-Oct-21	13:08:58	Peak deleted	Sample:7-211009A08, Compound:PF-f1, RT:28.805	
13-Oct-21	13:08:58	Peak deleted	Sample:7-211009A08, Compound:PF-f1, RT:28.572	
13-Oct-21	13:08:58	Peak deleted	Sample:7-211009A08, Compound:PF-f1, RT:28.528	
13-Oct-21	13:08:58	Peak deleted	Sample:7-211009A08, Compound:PF-f1, RT:27.160	
13-Oct-21	13:08:58	Peak deleted	Sample:7-211009A08, Compound:PF-f1, RT:26.782	
13-Oct-21	13:09:05	Peak deleted	Sample:7-211009A09, Compound:PF-f1, RT:28.718	
13-Oct-21	13:09:05	Peak deleted	Sample:7-211009A09, Compound:PF-f1, RT:28.630	
13-Oct-21	13:09:05	Peak deleted	Sample:7-211009A09, Compound:PF-f1, RT:28.441	
13-Oct-21	13:09:05	Peak deleted	Sample:7-211009A09, Compound:PF-f1, RT:26.680	
13-Oct-21	13:09:05	Peak deleted	Sample:7-211009A09, Compound:PF-f1, RT:26.506	

Quantify Audit Report MassLynx MassLynx V4.1 SCN 901

Dataset: I:\Organics Instrument\HIGHRES GCMS Completed Results Files\HR-7\2021\2110\7-211009A-1013A.qld

Last Altered: Wednesday, October 13, 2021 13:13:29 Eastern Daylight Time
Printed: Thursday, October 14, 2021 10:49:26 Eastern Daylight Time

Date	Time	Event	Details	Comments
13-Oct-21	13:09:05	Peak deleted	Sample:7-211009A09, Compound:PF-f1, RT:26.331	
13-Oct-21	13:09:05	Peak deleted	Sample:7-211009A09, Compound:PF-f1, RT:26.069	
13-Oct-21	13:09:05	Peak deleted	Sample:7-211009A09, Compound:PF-f1, RT:24.657	
13-Oct-21	13:09:05	Peak deleted	Sample:7-211009A09, Compound:PF-f1, RT:24.599	
13-Oct-21	13:09:05	Peak deleted	Sample:7-211009A09, Compound:PF-f1, RT:24.352	
13-Oct-21	13:09:05	Peak deleted	Sample:7-211009A09, Compound:PF-f1, RT:24.250	
13-Oct-21	13:09:05	Peak deleted	Sample:7-211009A09, Compound:PF-f1, RT:23.056	
13-Oct-21	13:09:05	Peak deleted	Sample:7-211009A09, Compound:PF-f1, RT:22.299	
13-Oct-21	13:09:10	Peak deleted	Sample:7-211009A01, Compound:PF-f1, RT:29.096	
13-Oct-21	13:10:30	Pre modification peak	Sample:7-211009A08, Compound:HXD, RT:32.893	
13-Oct-21	13:10:30	Peak modified	Sample:7-211009A08, Compound:HXD, RT:32.893	
13-Oct-21	13:10:47	Peak deleted	Sample:7-211009A02, Compound:HPD, RT:36.629	
13-Oct-21	13:10:47	Peak deleted	Sample:7-211009A02, Compound:HPD, RT:36.465	
13-Oct-21	13:10:47	Peak deleted	Sample:7-211009A02, Compound:HPD, RT:35.776	
13-Oct-21	13:10:47	Peak deleted	Sample:7-211009A02, Compound:HPD, RT:35.469	
13-Oct-21	13:10:47	Peak deleted	Sample:7-211009A02, Compound:HPD, RT:36.749	
13-Oct-21	13:10:47	Peak deleted	Sample:7-211009A02, Compound:HPD, RT:36.684	
13-Oct-21	13:10:58	Peak deleted	Sample:7-211009A03, Compound:HPD, RT:36.542	
13-Oct-21	13:10:58	Peak deleted	Sample:7-211009A03, Compound:HPD, RT:36.454	
13-Oct-21	13:10:58	Peak deleted	Sample:7-211009A03, Compound:HPD, RT:36.410	
13-Oct-21	13:10:58	Peak deleted	Sample:7-211009A03, Compound:HPD, RT:36.355	
13-Oct-21	13:10:58	Peak deleted	Sample:7-211009A03, Compound:HPD, RT:36.257	
13-Oct-21	13:10:58	Peak deleted	Sample:7-211009A03, Compound:HPD, RT:35.480	
13-Oct-21	13:10:58	Peak deleted	Sample:7-211009A03, Compound:HPD, RT:36.760	
13-Oct-21	13:10:58	Peak deleted	Sample:7-211009A03, Compound:HPD, RT:36.596	
13-Oct-21	13:11:07	Peak deleted	Sample:7-211009A08, Compound:HPD, RT:36.355	
13-Oct-21	13:11:07	Peak deleted	Sample:7-211009A08, Compound:HPD, RT:36.301	
13-Oct-21	13:11:07	Pre modification peak	Sample:7-211009A08, Compound:HPD, RT:35.983	
13-Oct-21	13:11:07	Peak modified	Sample:7-211009A08, Compound:HPD, RT:35.983	
13-Oct-21	13:11:07	Peak deleted	Sample:7-211009A08, Compound:HPD, RT:35.458	
13-Oct-21	13:11:17	Peak deleted	Sample:7-211009A09, Compound:HPD, RT:35.491	
13-Oct-21	13:11:17	Peak deleted	Sample:7-211009A09, Compound:HPD, RT:36.290	
13-Oct-21	13:11:17	Peak deleted	Sample:7-211009A09, Compound:HPD, RT:35.469	
13-Oct-21	13:11:27	Pre modification peak	Sample:7-211009A08, Compound:OCD, RT:37.557	
13-Oct-21	13:11:27	Peak modified	Sample:7-211009A08, Compound:OCD, RT:37.557	KB211013M
13-Oct-21	13:12:00	Peak deleted	Sample:7-211009A02, Compound:TF, RT:22.474	
13-Oct-21	13:12:09	Peak deleted	Sample:7-211009A03, Compound:TF, RT:22.474	
13-Oct-21	13:12:16	Peak deleted	Sample:7-211009A08, Compound:TF, RT:22.503	
13-Oct-21	13:12:28	Peak deleted	Sample:7-211009A09, Compound:TF, RT:27.859	
13-Oct-21	13:12:28	Peak deleted	Sample:7-211009A09, Compound:TF, RT:22.489	
13-Oct-21	13:13:01	Peak deleted	Sample:7-211009A08, Compound:PF-f2, RT:32.153	
13-Oct-21	13:13:01	Peak deleted	Sample:7-211009A08, Compound:PF-f2, RT:31.201	
13-Oct-21	13:13:28	Peak deleted	Sample:7-211009A09, Compound:HXF, RT:34.664	
13-Oct-21	13:13:54	Dataset Saved	Saved to 'I:\Organics Instrument\HIGHRES GCMS Complete...	
09-Oct-21	14:59:40	Process Extract		
09-Oct-21	14:59:40	Process Integrate		
09-Oct-21	14:59:40	Process Quantify		
09-Oct-21	14:59:40	Dataset Created		
09-Oct-21	15:00:28	Pre modification peak	Sample:7-211009A01, Compound:13CTF, RT:21.543	
09-Oct-21	15:00:28	Peak modified	Sample:7-211009A01, Compound:13CTF, RT:21.543	KB211009MB
09-Oct-21	15:00:28	Pre modification peak	Sample:7-211009A01, Compound:13CTF, RT:27.728	
09-Oct-21	15:00:28	Peak modified	Sample:7-211009A01, Compound:13CTF, RT:27.728	KB211009MB
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Quantify Audit Report MassLynx MassLynx V4.1 SCN 901

Dataset: I:\Organics Instrument\HIGHRES GCMS Completed Results Files\HR-7\2021\2110\7-211009A-1013A.qld

Last Altered: Wednesday, October 13, 2021 13:13:29 Eastern Daylight Time
Printed: Thursday, October 14, 2021 10:49:26 Eastern Daylight Time

Date	Time	Event	Details	Comments
09-Oct-21	15:00:28	Peak modified	Sample:7-211009A01, Compound:13CTF, RT:21.543	KB211009MB
09-Oct-21	15:00:28	Pre modification peak	Sample:7-211009A01, Compound:13CTF, RT:21.543	
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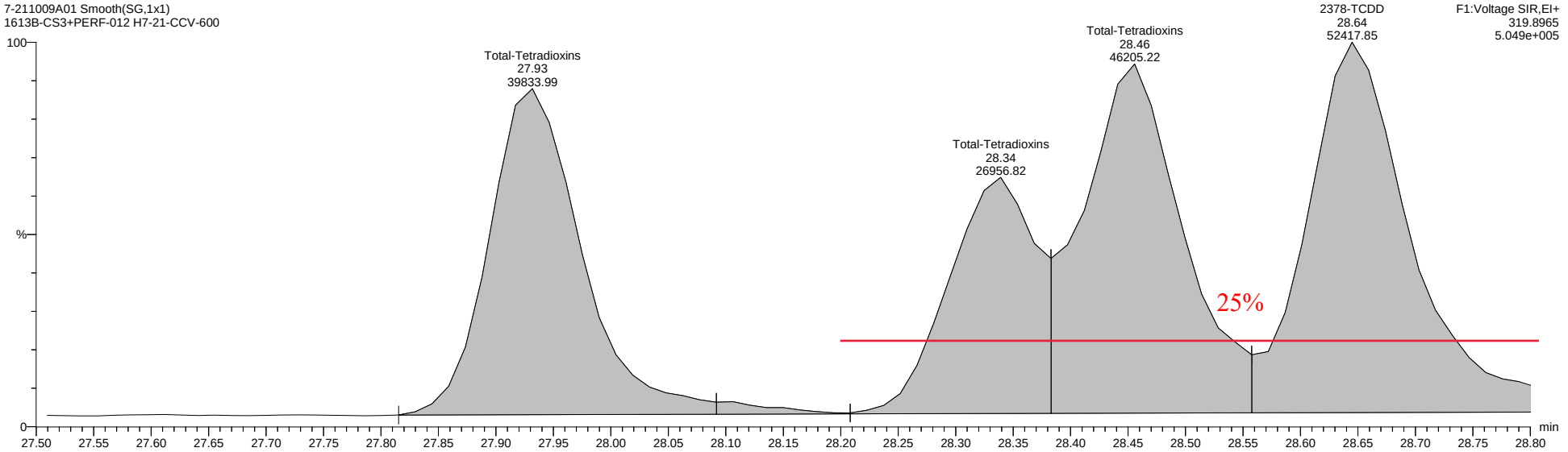
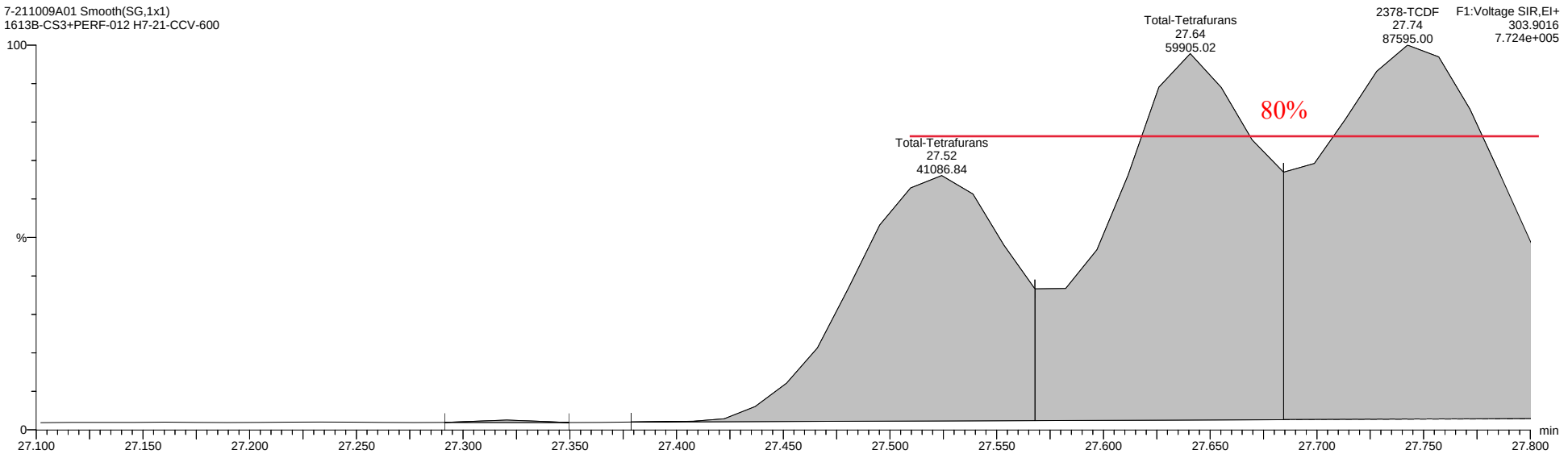
09-Oct-21	15:00:28	Pre modification peak	Sample:7-211009A01, Compound:13CTF, RT:21.543	
09-Oct-21	15:00:28	Peak modified	Sample:7-211009A01, Compound:13CTF, RT:21.543	KB211009MB
09-Oct-21	15:00:28	Pre modification peak	Sample:7-211009A01, Compound:13CTF, RT:27.728	
09-Oct-21	15:00:28	Peak modified	Sample:7-211009A01, Compound:13CTF, RT:27.728	KB211009MB
09-Oct-21	15:00:57	Pre modification peak	Sample:7-211009A01, Compound:TF, RT:27.990	
09-Oct-21	15:00:57	Peak modified	Sample:7-211009A01, Compound:TF, RT:27.990	KB211009MB
09-Oct-21	15:00:57	Pre modification peak	Sample:7-211009A01, Compound:TF, RT:27.743	
09-Oct-21	15:00:57	Peak modified	Sample:7-211009A01, Compound:TF, RT:27.743	KB211009MB
09-Oct-21	15:04:10	Dataset Saved	Saved to 'C:\MassLynx\Dioxin.PRO\Results Files\7-211009A....	
09-Oct-21	15:04:27	Dataset Saved	Saved to 'I:\Organics Instrument\HIGHRES GCMS Complete...	

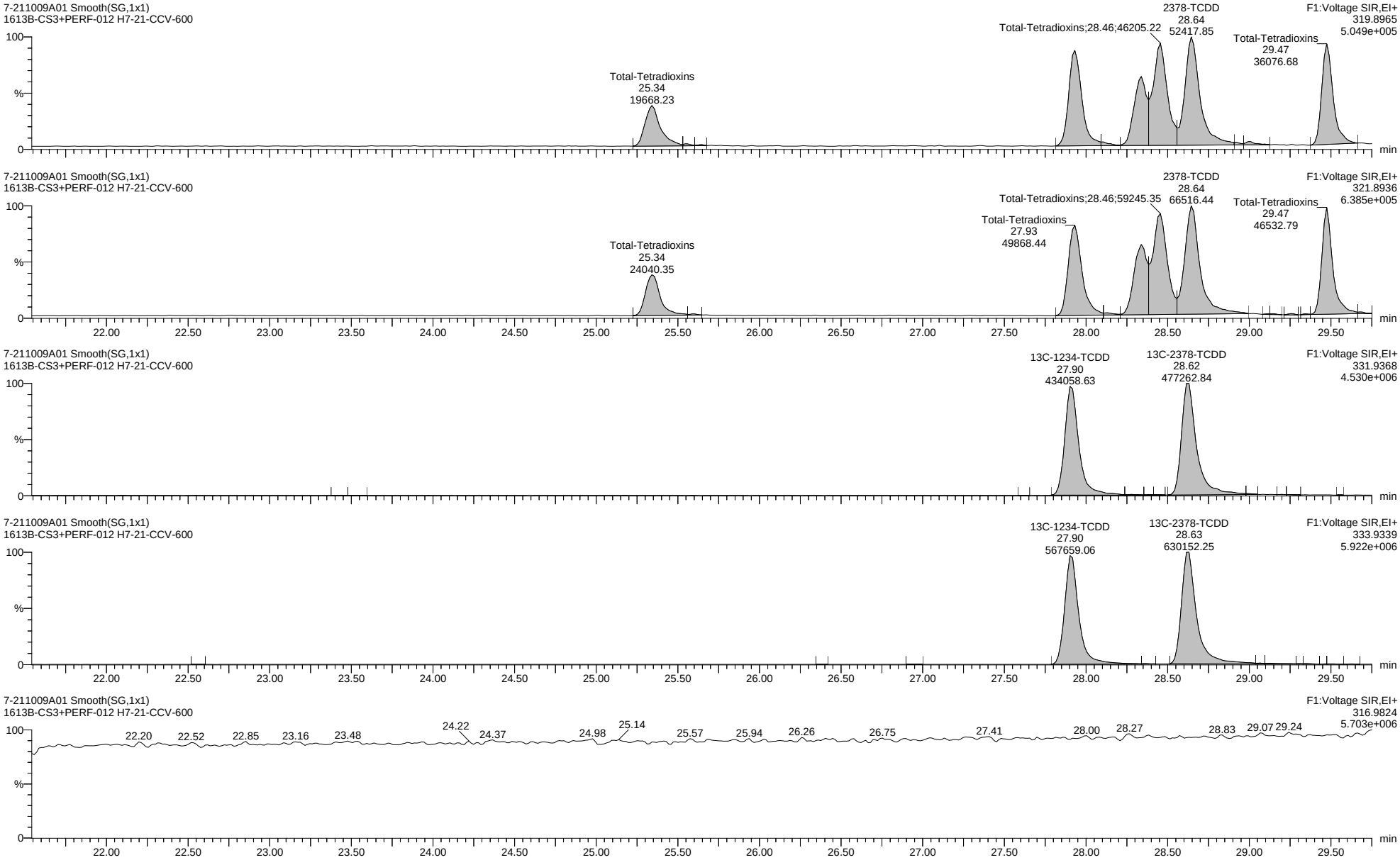
Method: C:\MassLynx\Dioxin.PRO\MethDB\Dioxin_1613B.mdb 30 Aug 2021 12:17:57
Calibration: C:\MassLynx\Dioxin.PRO\CurveDB\7-210611A-CAL5-1613.cdb 14 Jun 2021 09:35:05

Name: 7-211009A01, Date: 09-Oct-2021, Time: 02:56:47, ID: H7-21-CCV-600, Description: 1613B-CS3+PERF-012, Vial: Tray1:1





Name: 7-211009A01, Date: 09-Oct-2021, Time: 02:56:47, ID: H7-21-CCV-600, Description: 1613B-CS3+PERF-012, Vial: Tray1:1



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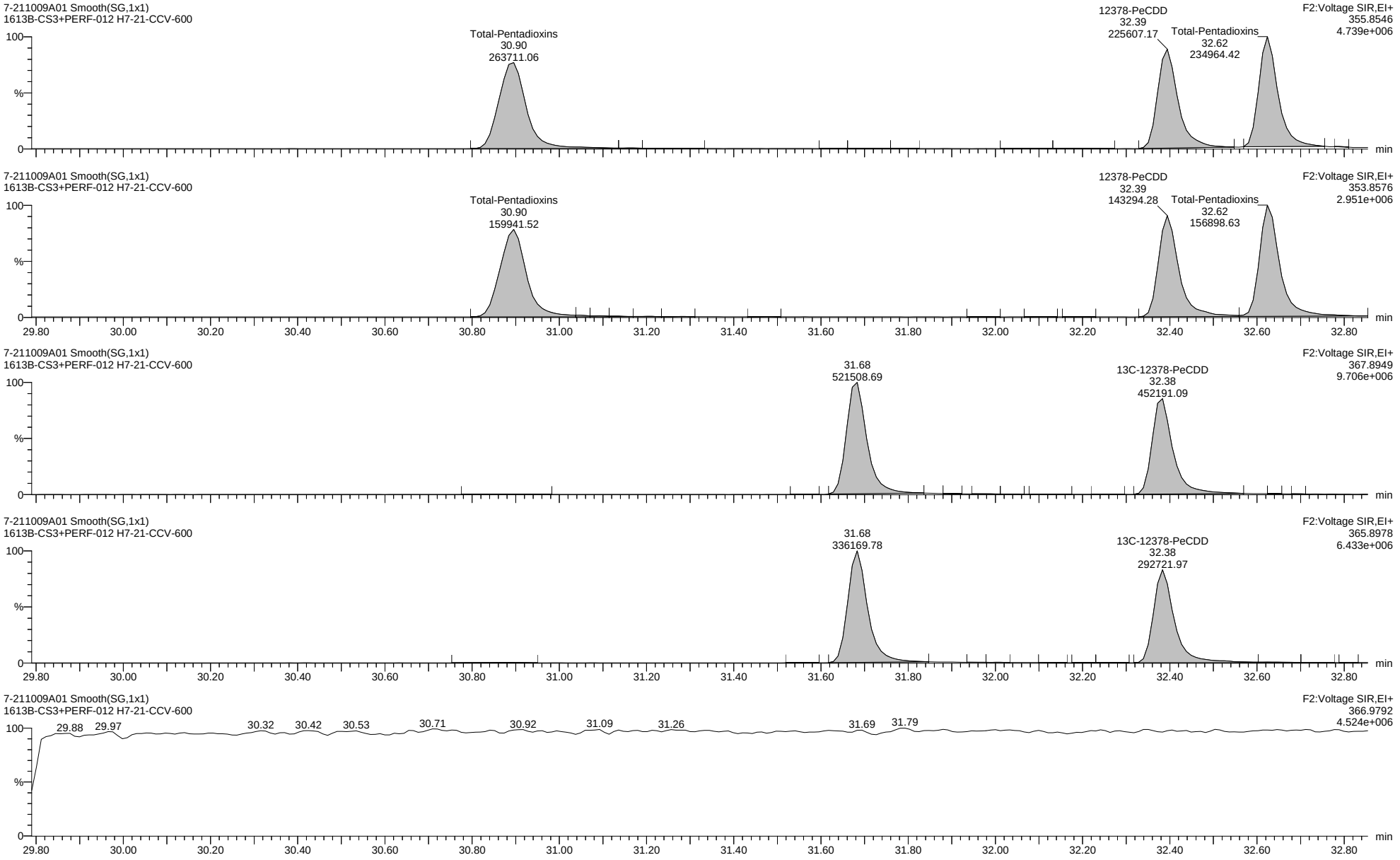

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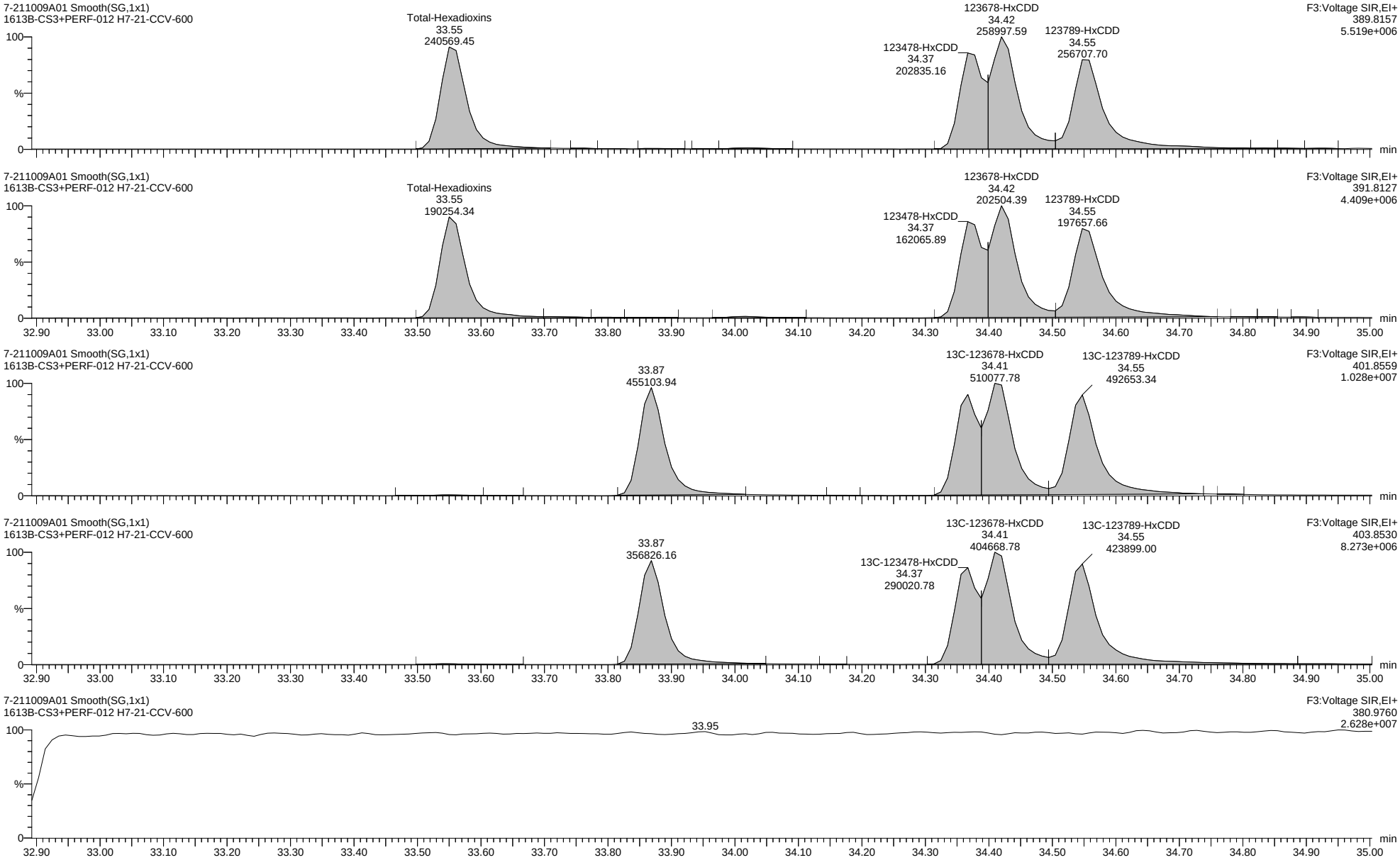

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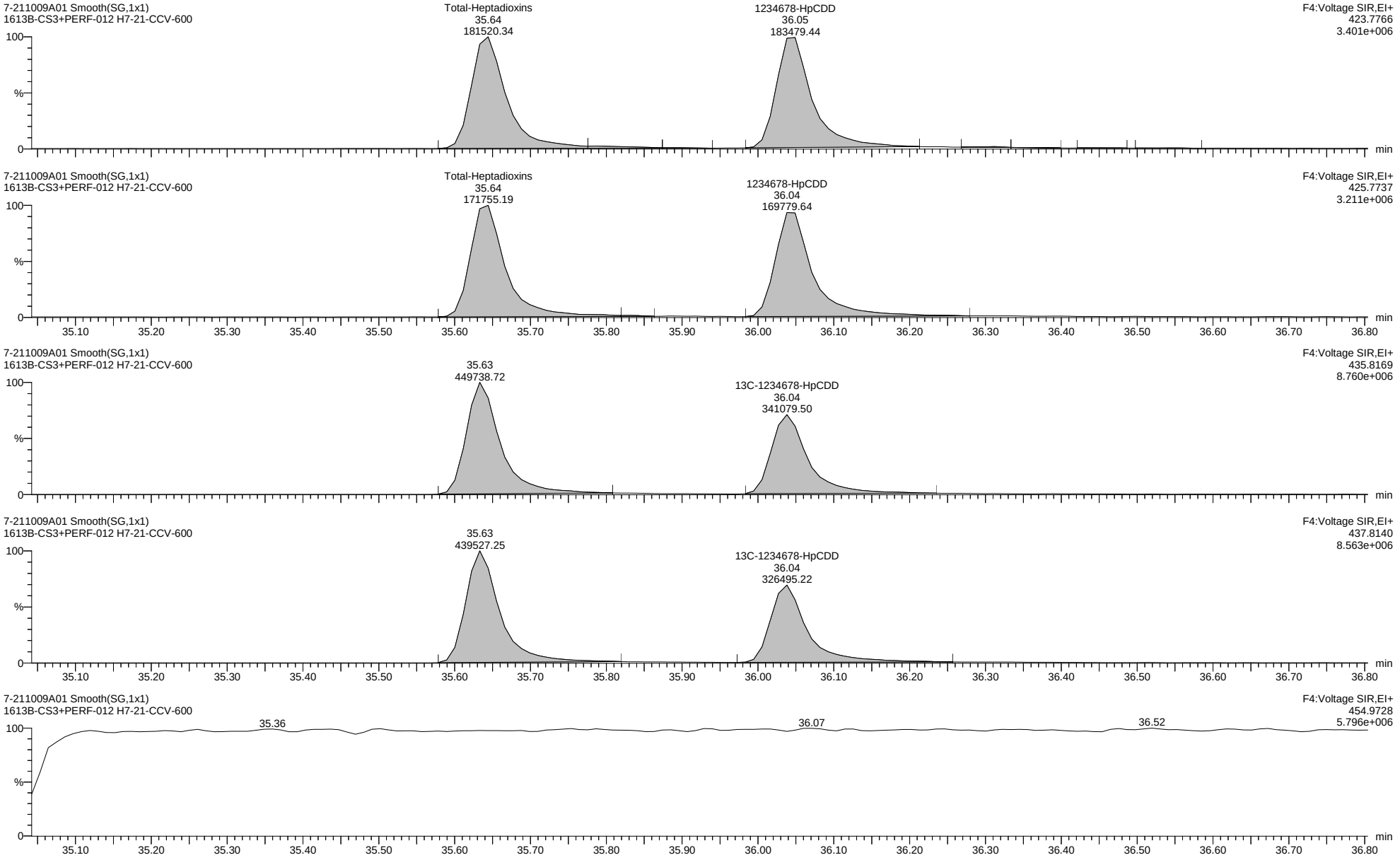

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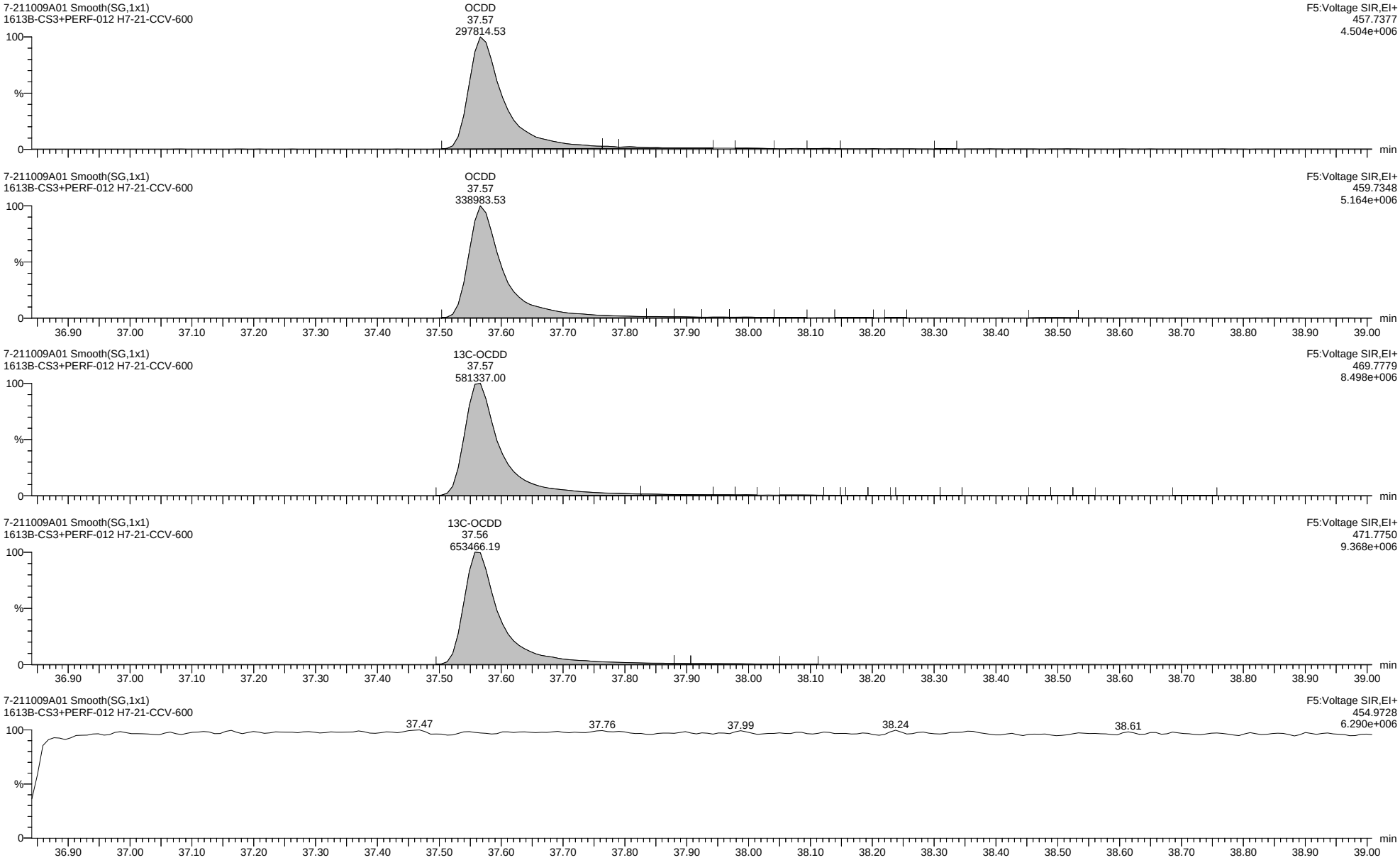
Last Altered: Wednesday, October 13, 2021 13:13:29 Eastern Daylight Time
Printed: Thursday, October 14, 2021 10:49:26 Eastern Daylight Time

Name: 7-211009A01, Date: 09-Oct-2021, Time: 02:56:47, ID: H7-21-CCV-600, Description: 1613B-CS3+PERF-012, Vial: Tray1:1



Quantify Sample Template Report **MassLynx MassLynx V4.1 SCN 901**

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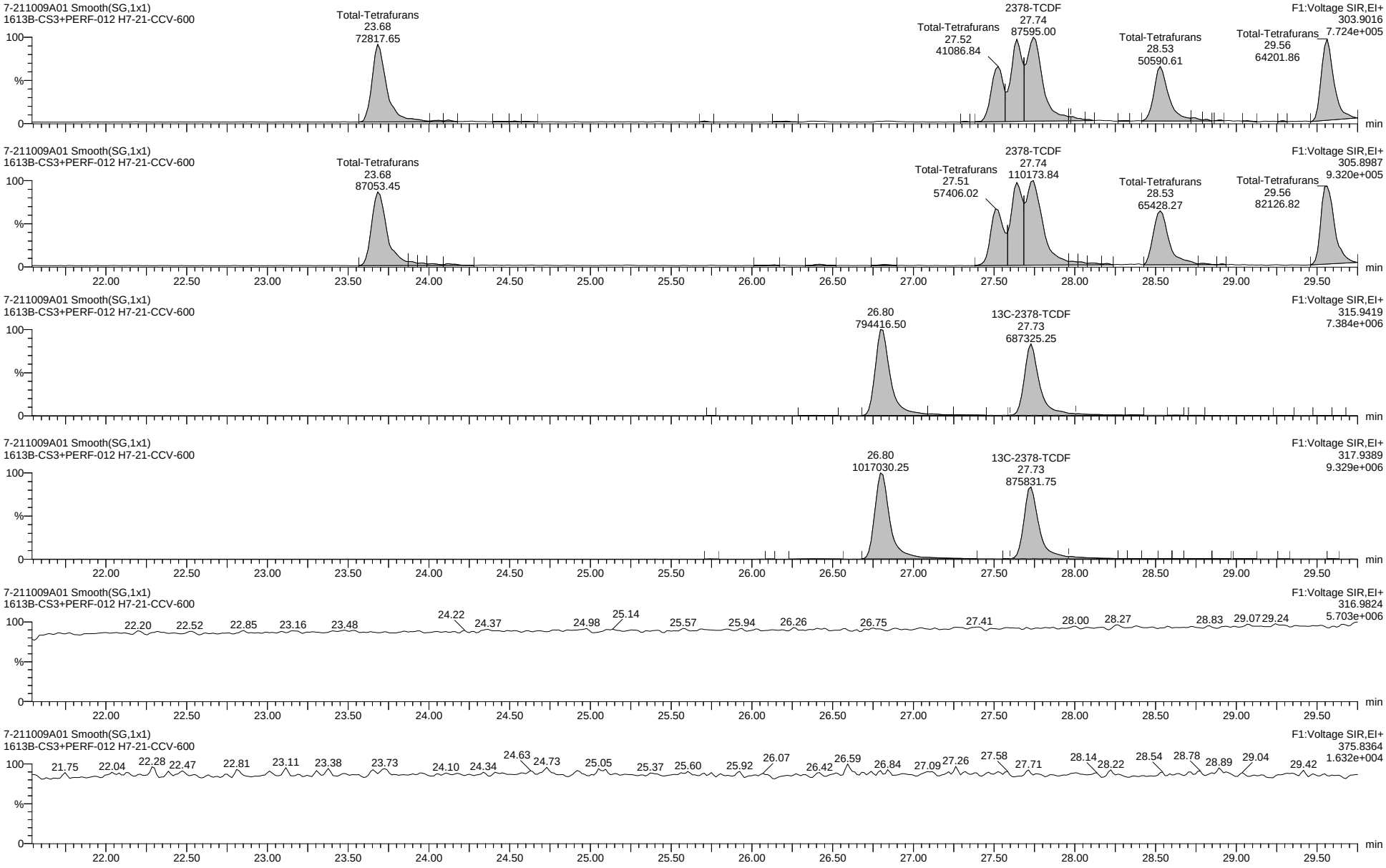
Printed: Thursday, October 14, 2021 10:49:26 Eastern Daylight Time

Name: 7-211009A01, Date: 09-Oct-2021, Time: 02:56:47, ID: H7-21-CCV-600, Description: 1613B-CS3+PERF-012, Vial: Tray1:1



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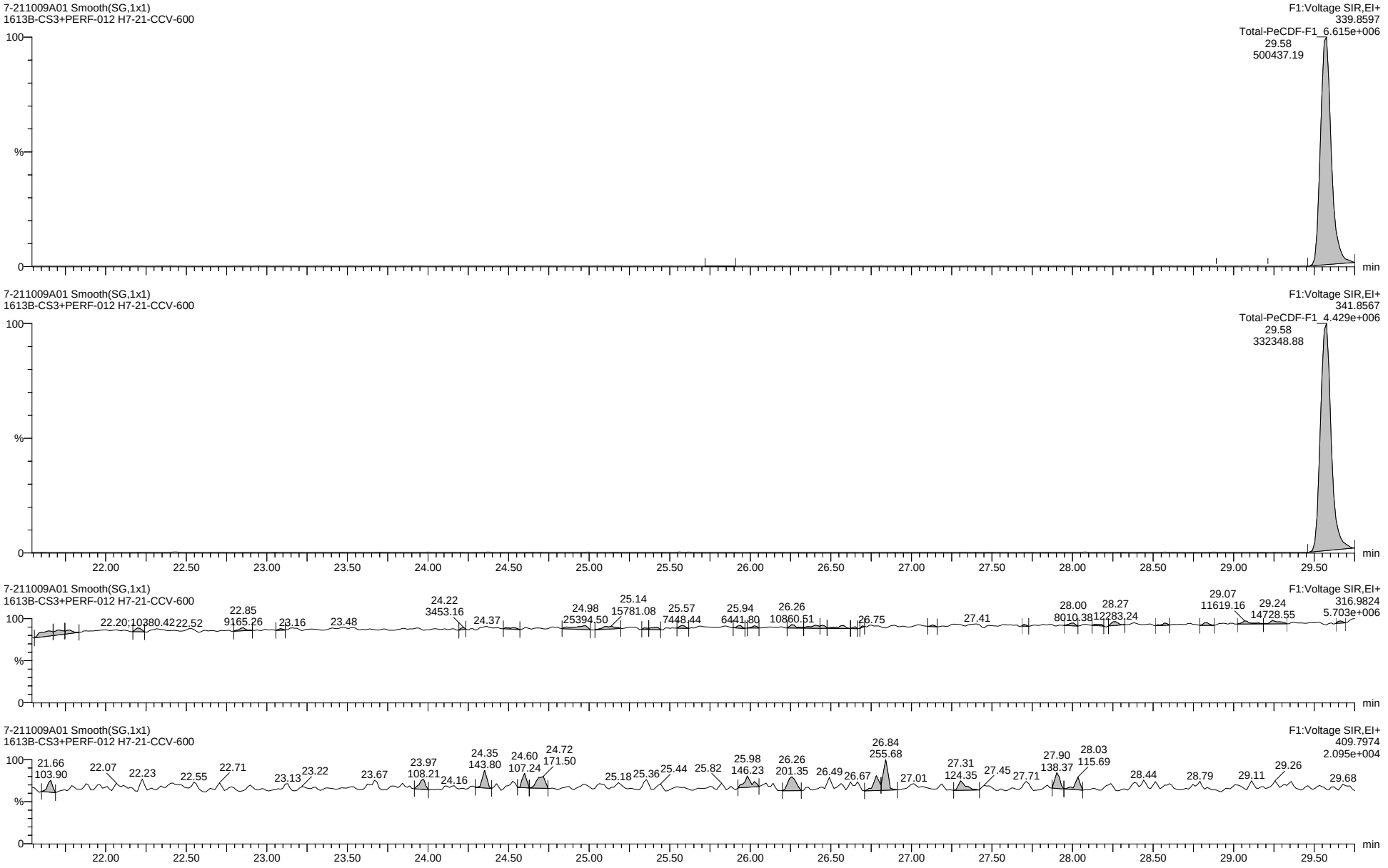
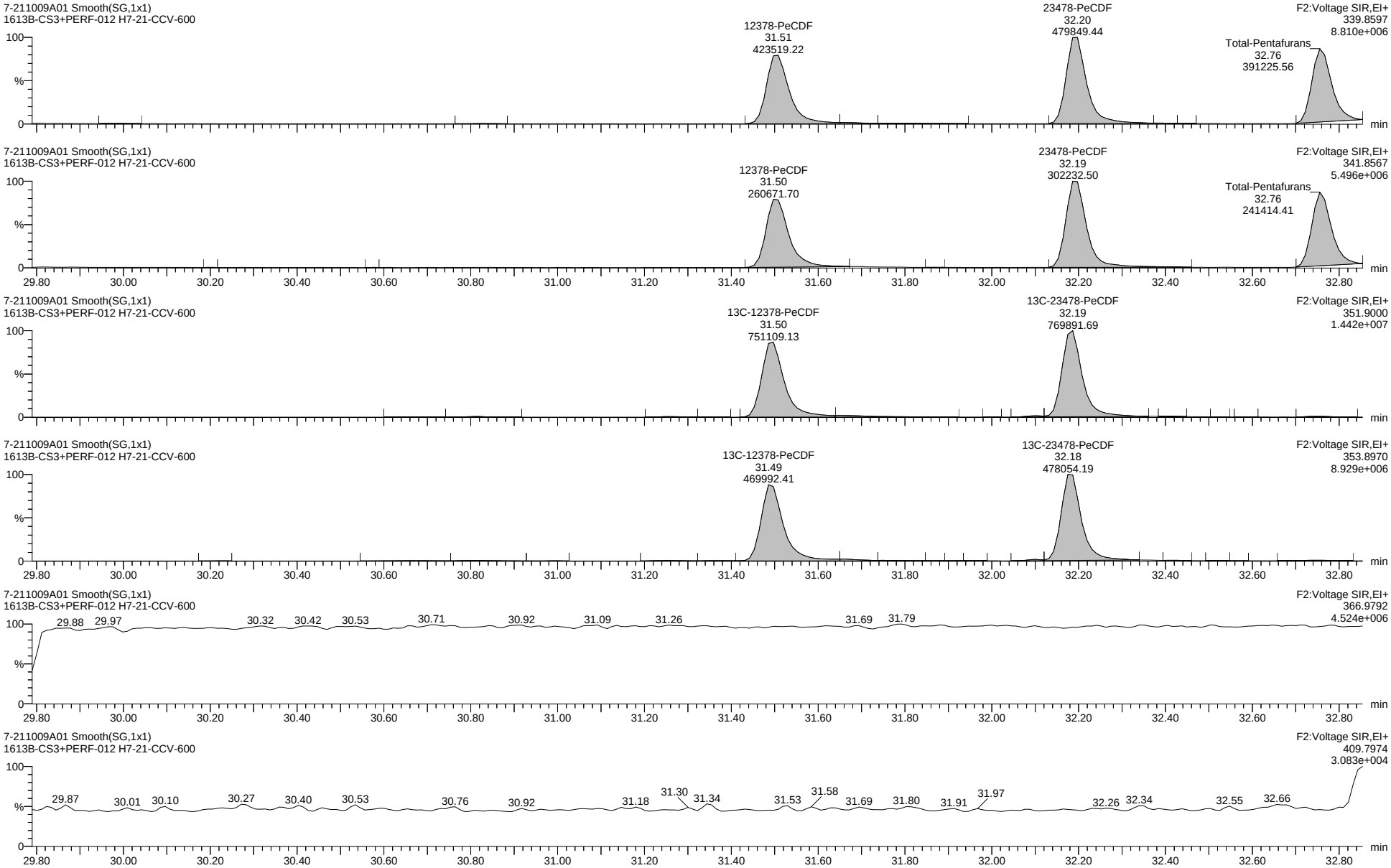


Name: 7-211009A01, Date: 09-Oct-2021, Time: 02:56:47, ID: H7-21-CCV-600, Description: 1613B-CS3+PERF-012, Vial: Tray1:1



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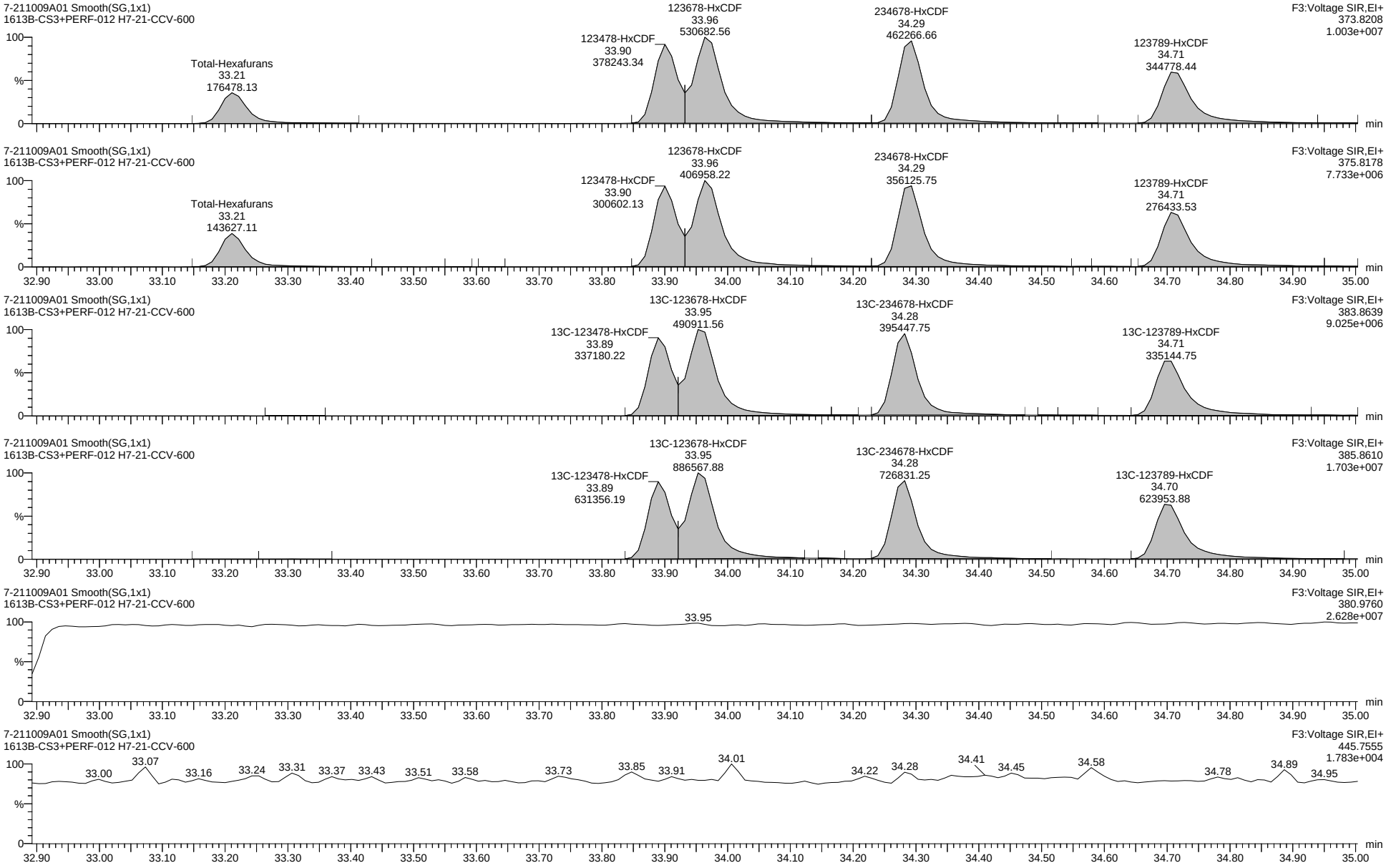

Dataset: I:\Organics Instrument\HIGHRES GCMS Completed Results Files\HR-7\2021\2110\7-211009A-1013A.qld

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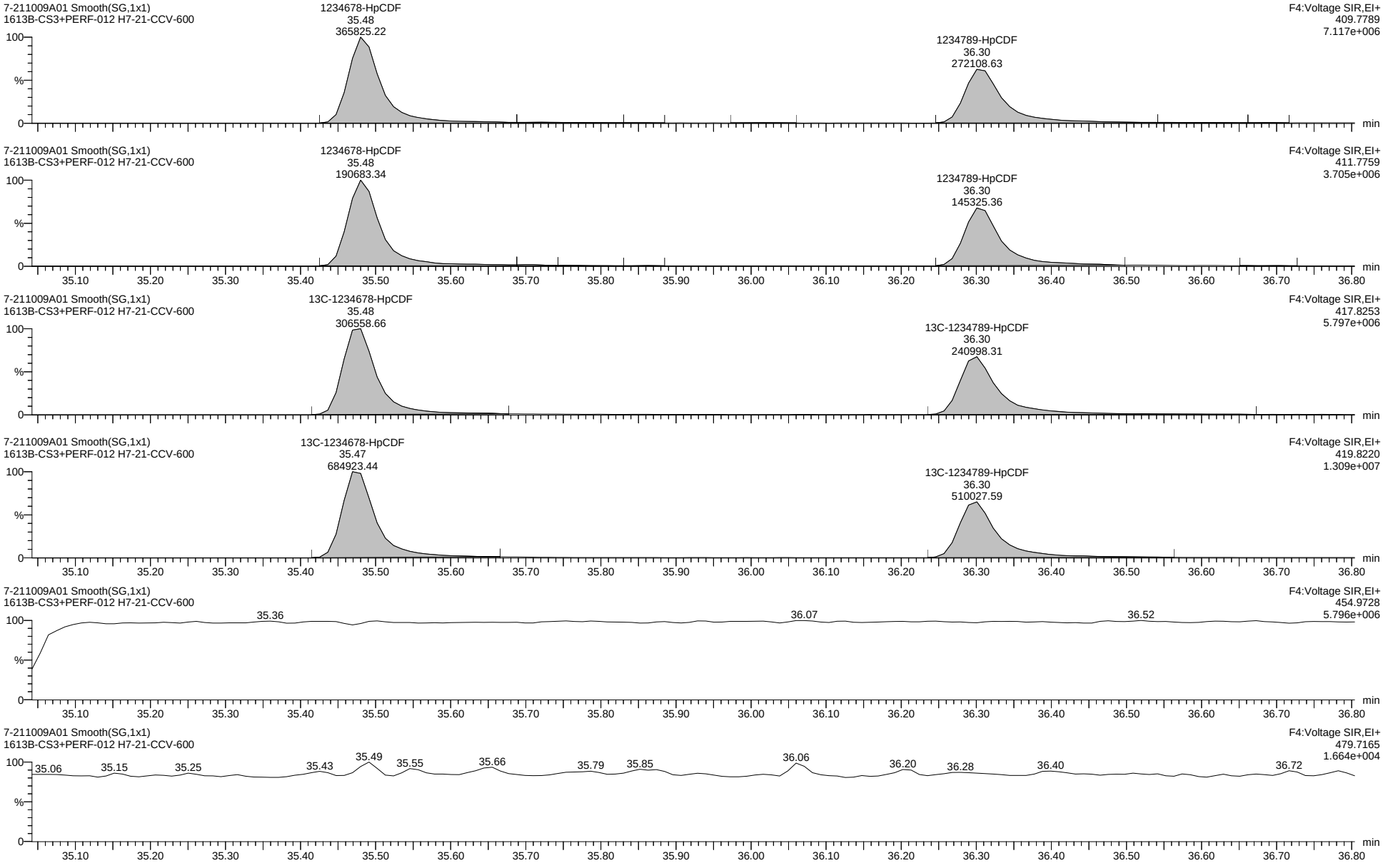
Printed: Thursday, October 14, 2021 10:49:26 Eastern Daylight Time

Name: 7-211009A01, Date: 09-Oct-2021, Time: 02:56:47, ID: H7-21-CCV-600, Description: 1613B-CS3+PERF-012, Vial: Tray1:1



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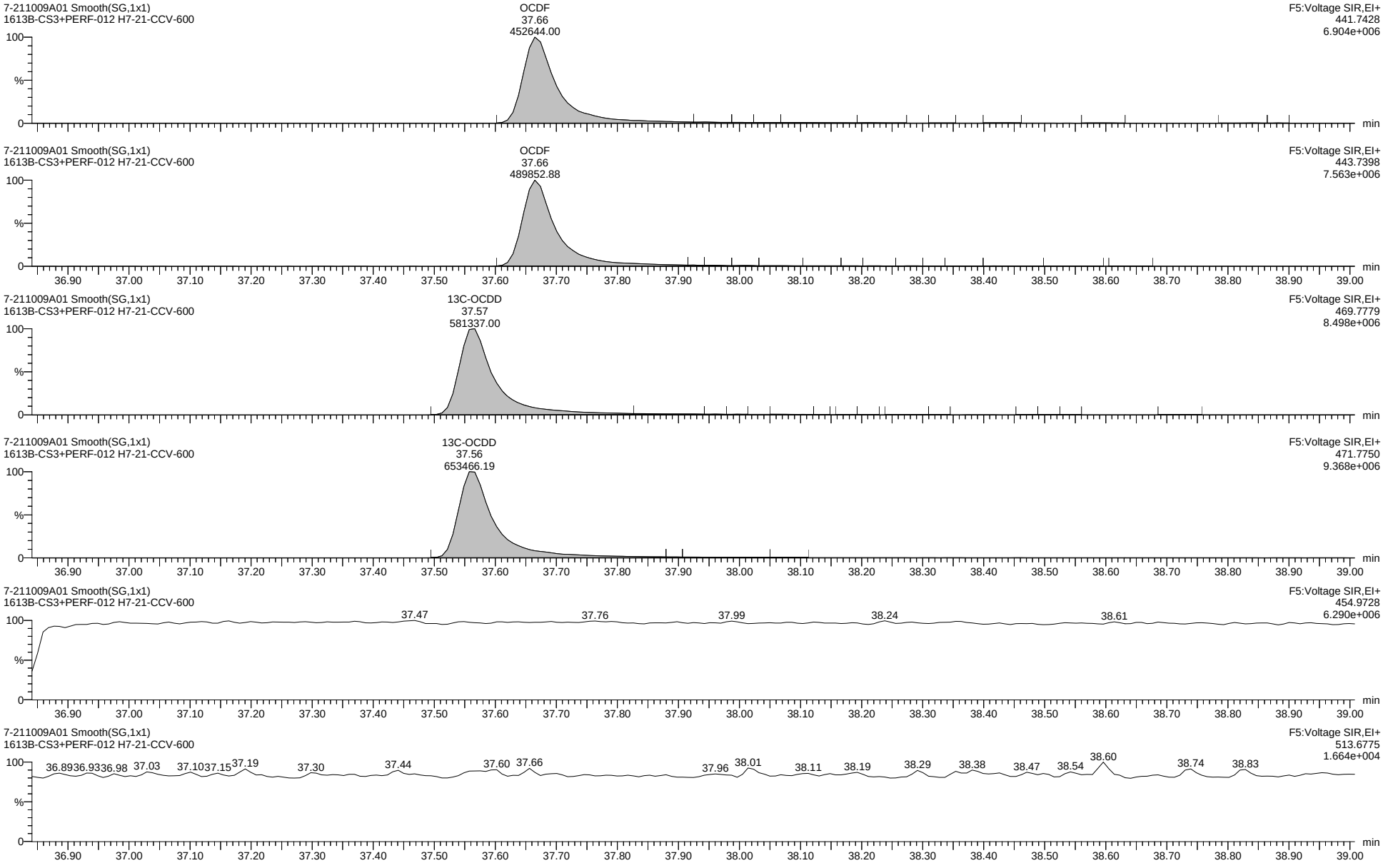
Last Altered: Wednesday, October 13, 2021 13:13:29 Eastern Daylight Time
Printed: Thursday, October 14, 2021 10:49:26 Eastern Daylight Time

Name: 7-211009A01, Date: 09-Oct-2021, Time: 02:56:47, ID: H7-21-CCV-600, Description: 1613B-CS3+PERF-012, Vial: Tray1:1



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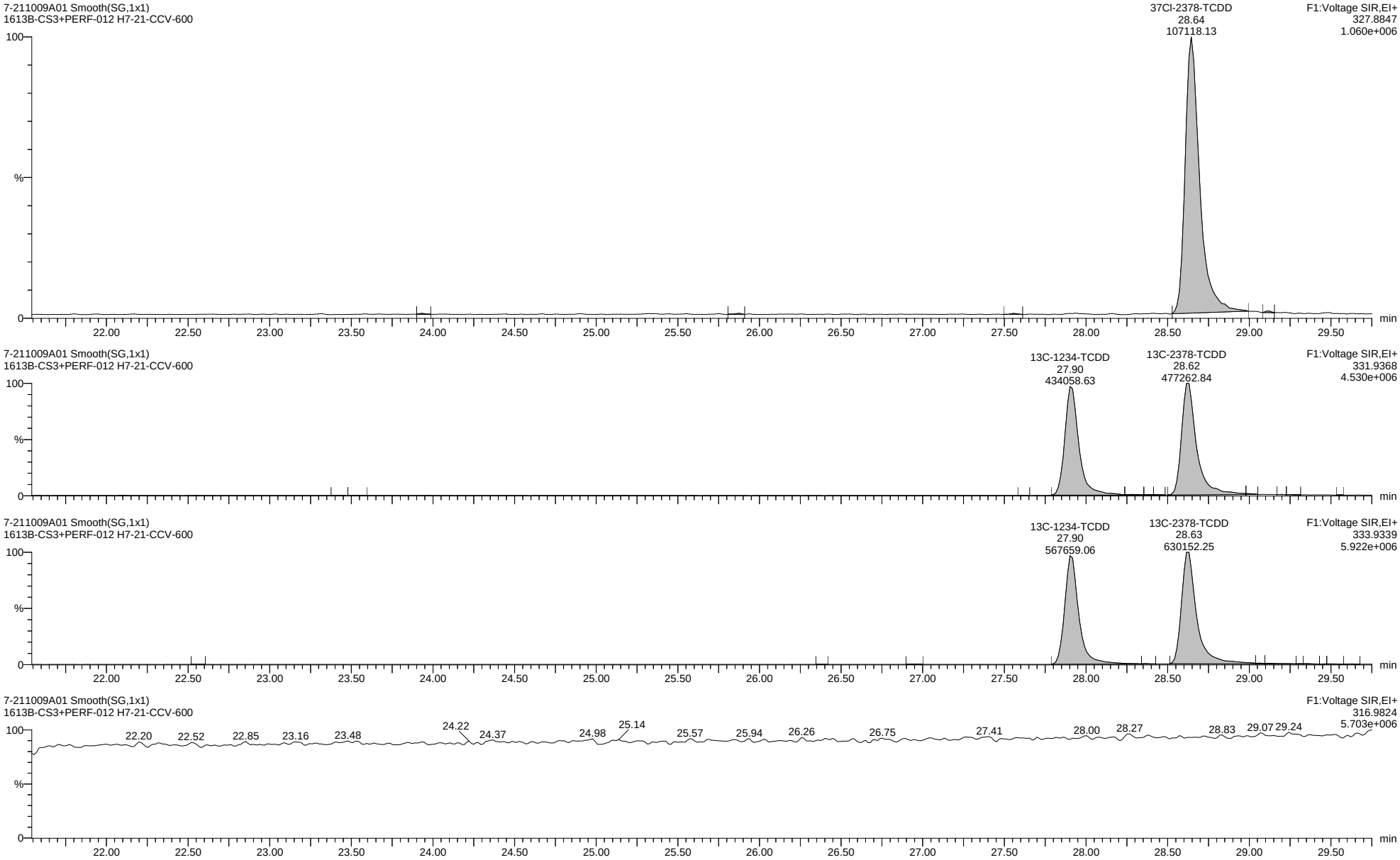
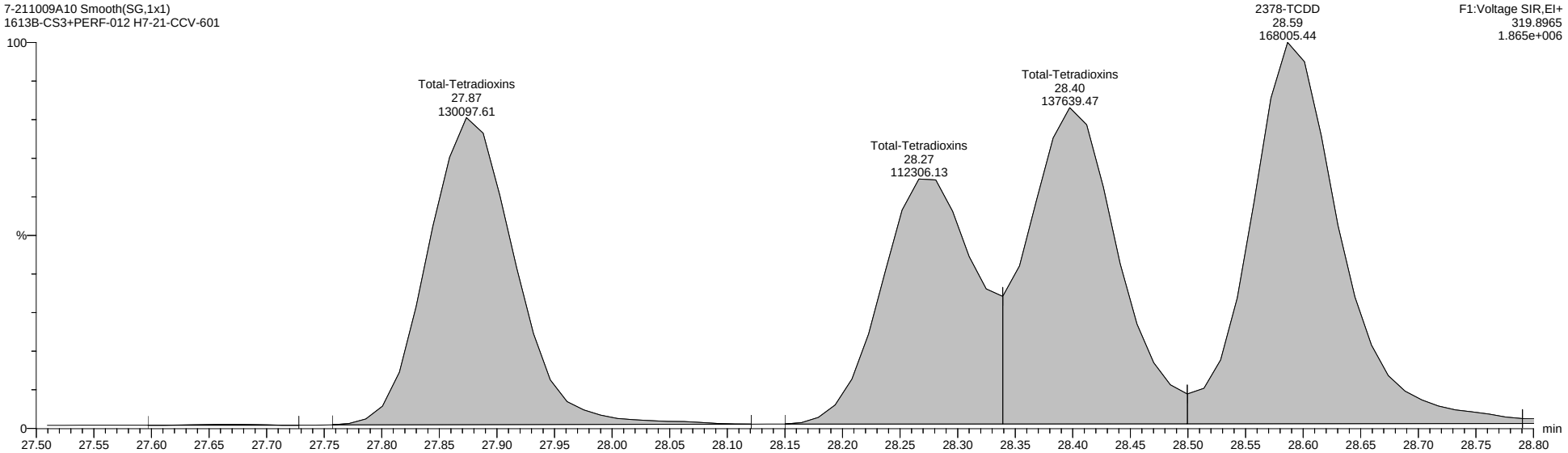
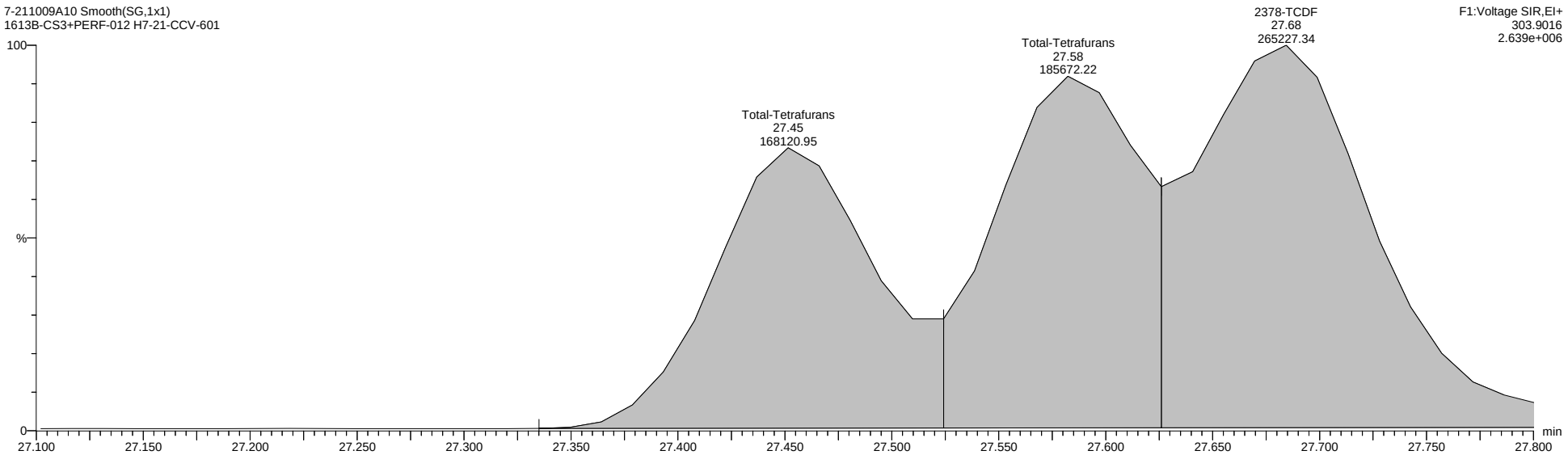


Method: C:\MassLynx\Dioxin.PRO\MethDB\Dioxin_1613B.mdb 30 Aug 2021 12:17:57
Calibration: C:\MassLynx\Dioxin.PRO\CurveDB\7-210611A-CAL5-1613.cdb 14 Jun 2021 09:35:05

Name: 7-211009A10, Date: 09-Oct-2021, Time: 09:29:48, ID: H7-21-CCV-601, Description: 1613B-CS3+PERF-012, Vial: Tray1:1





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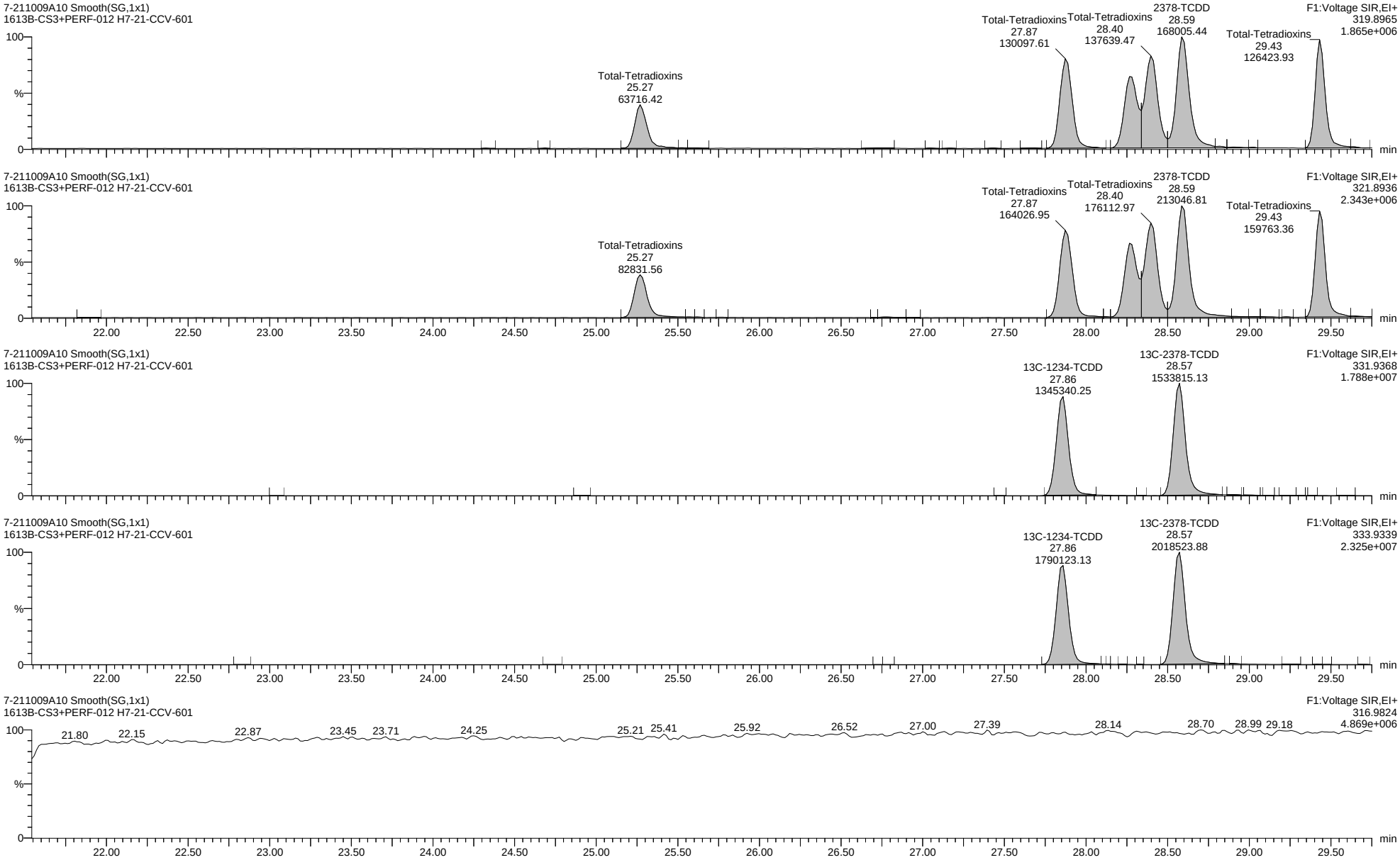

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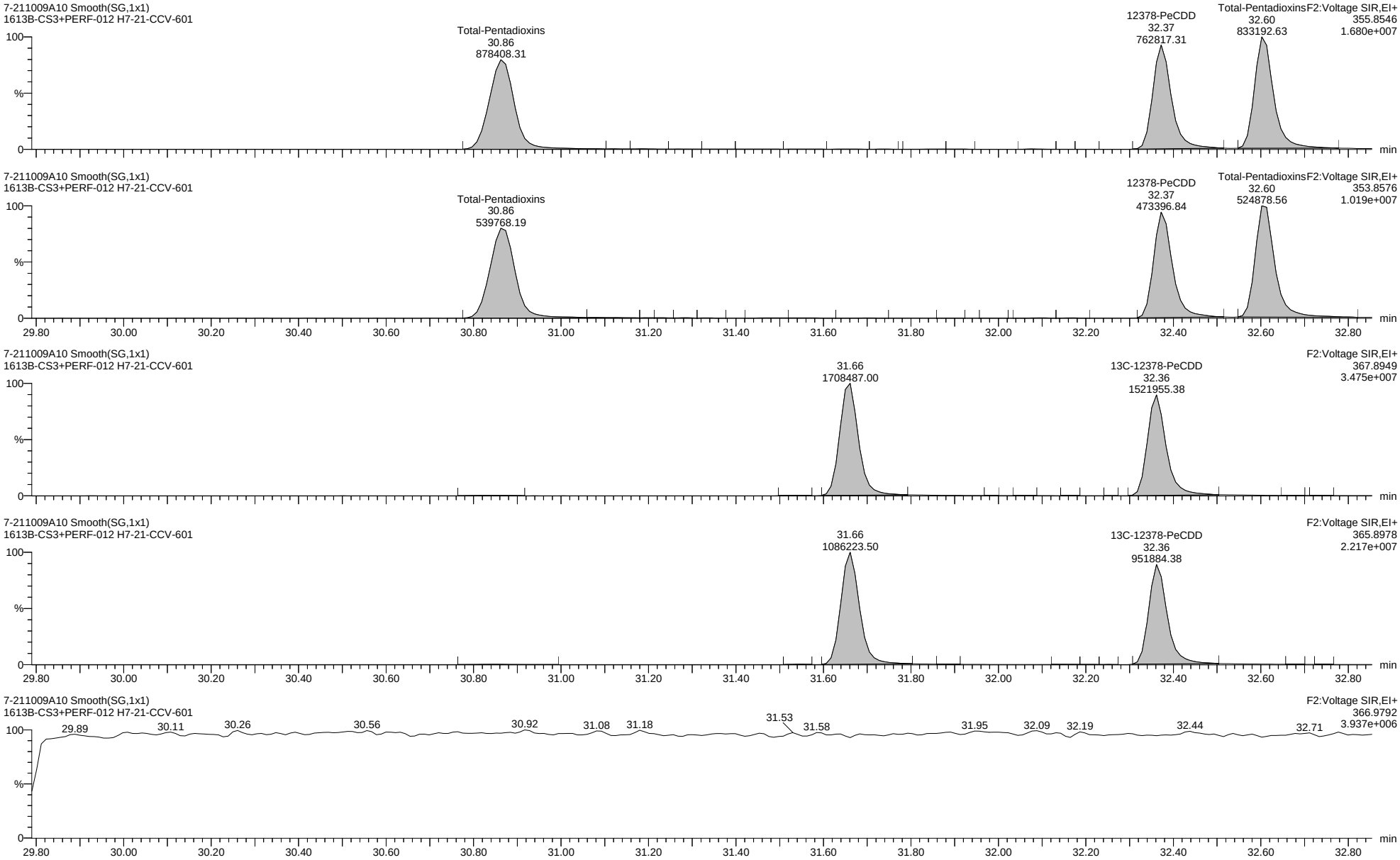

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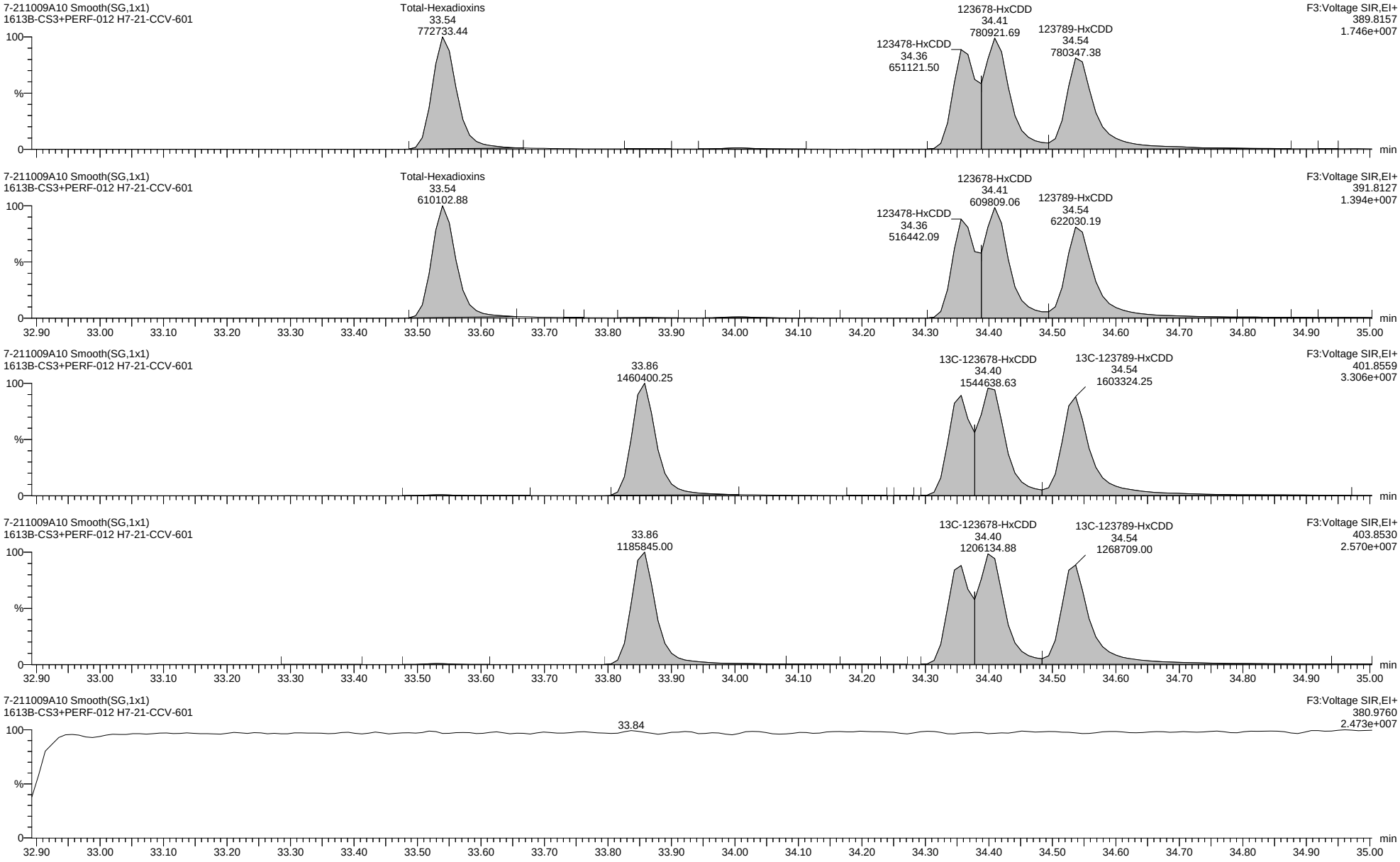

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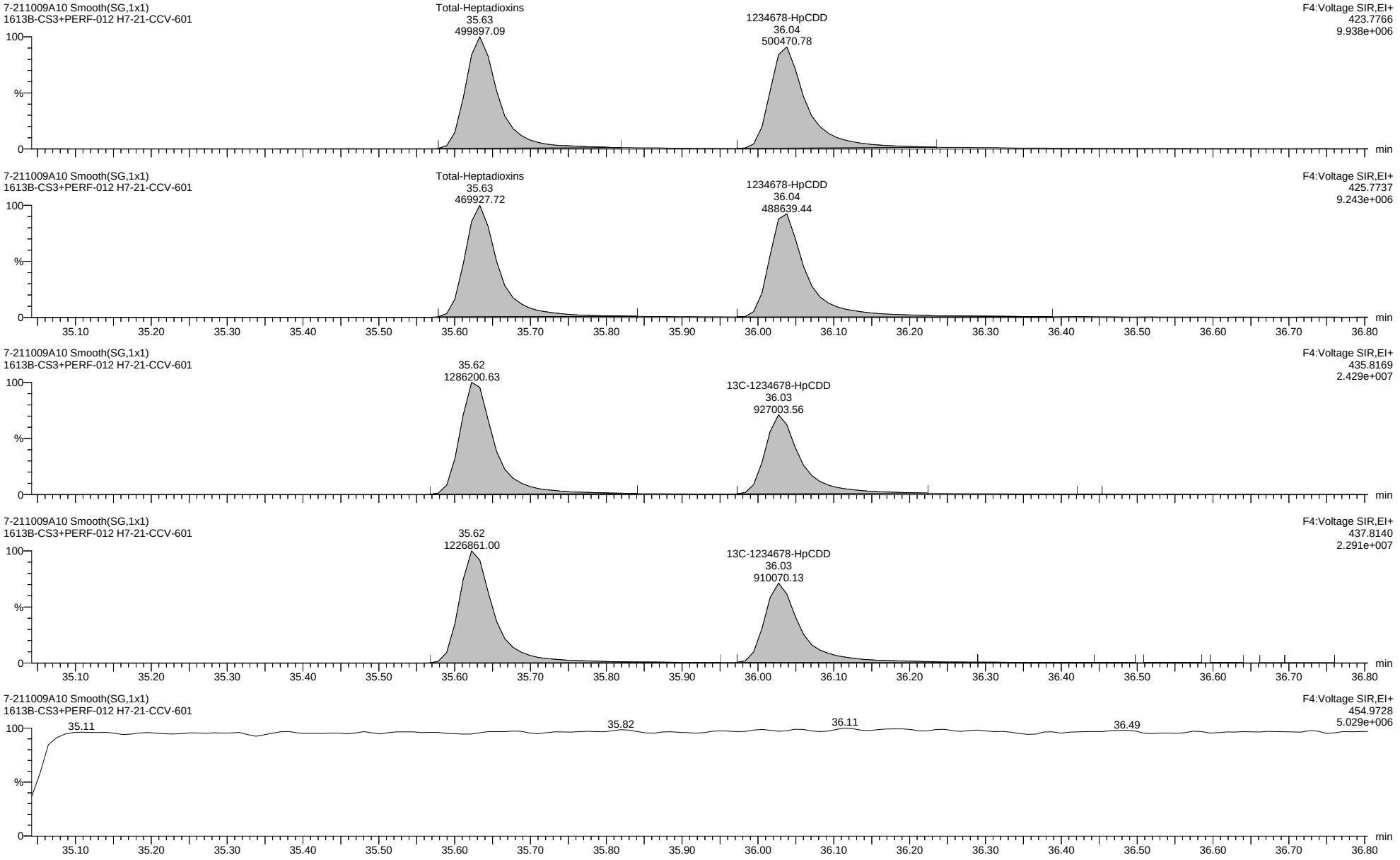

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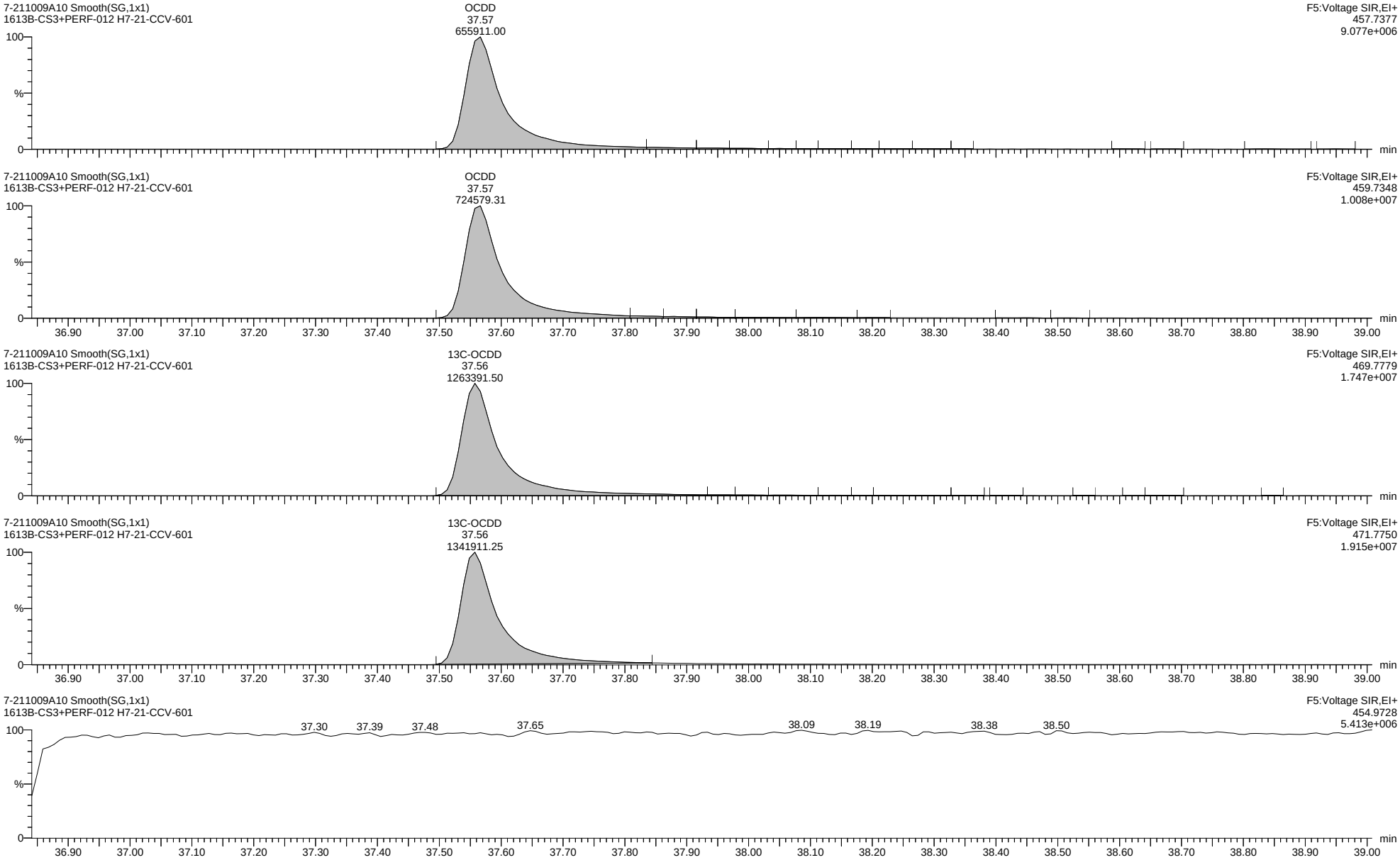

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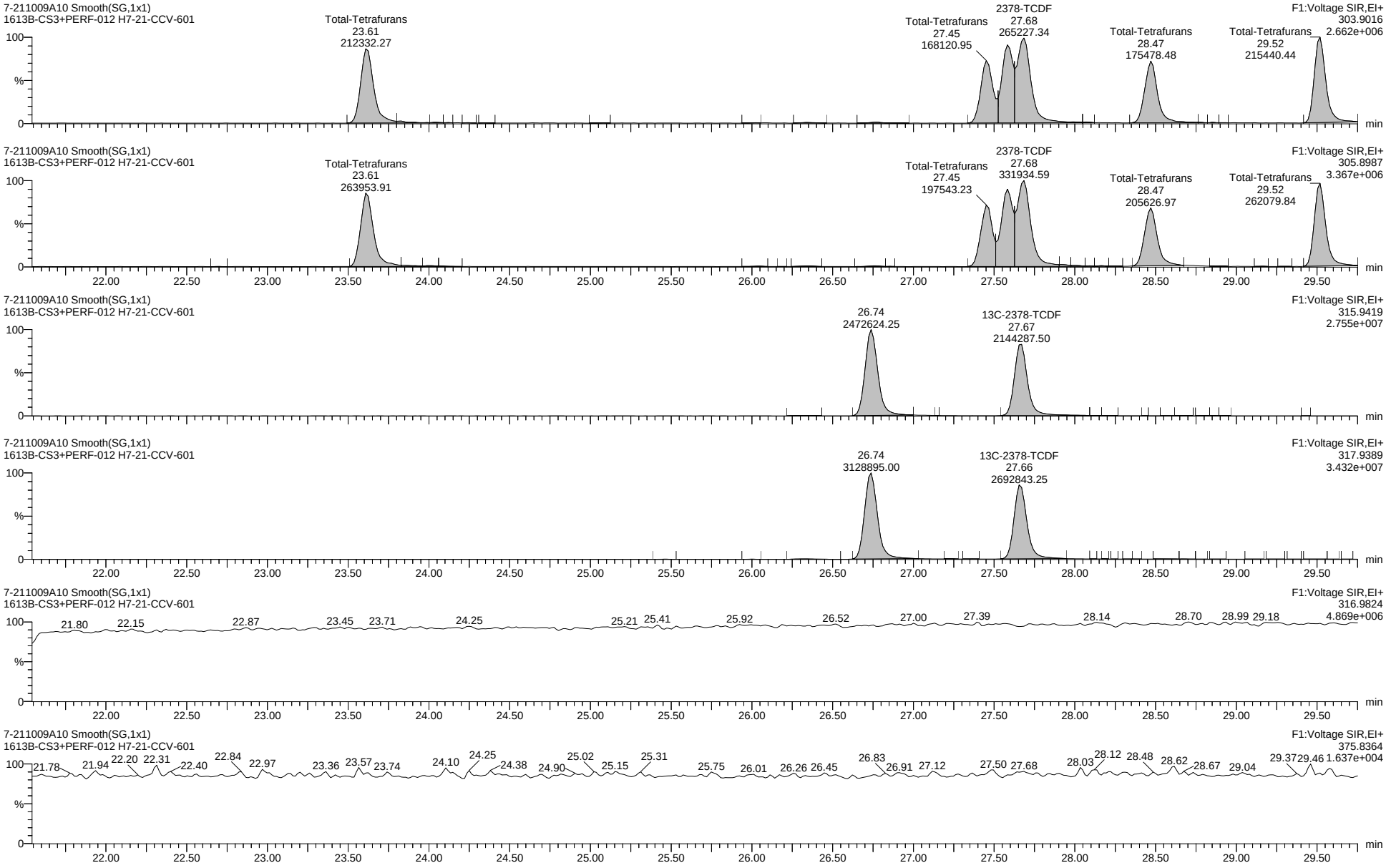

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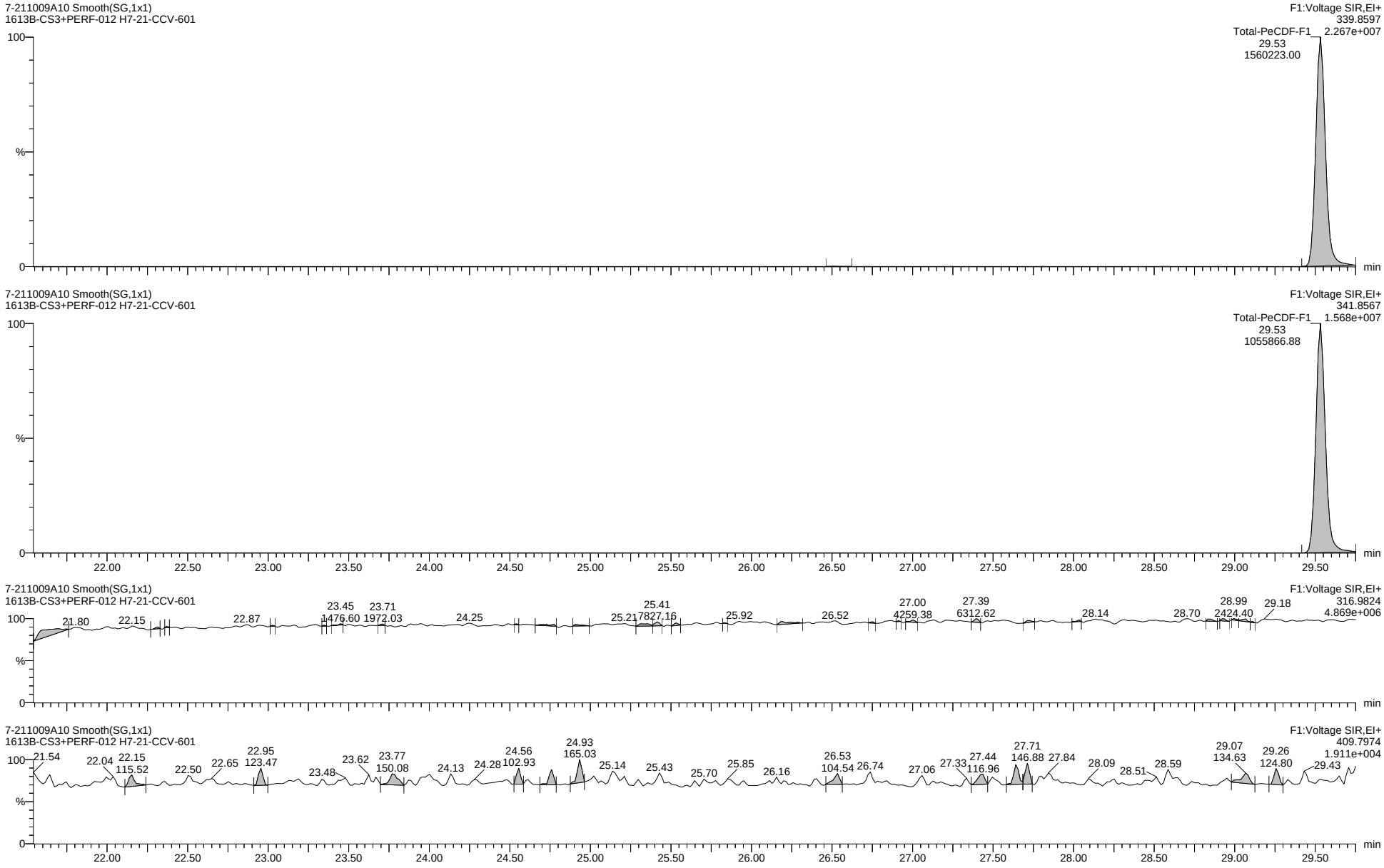

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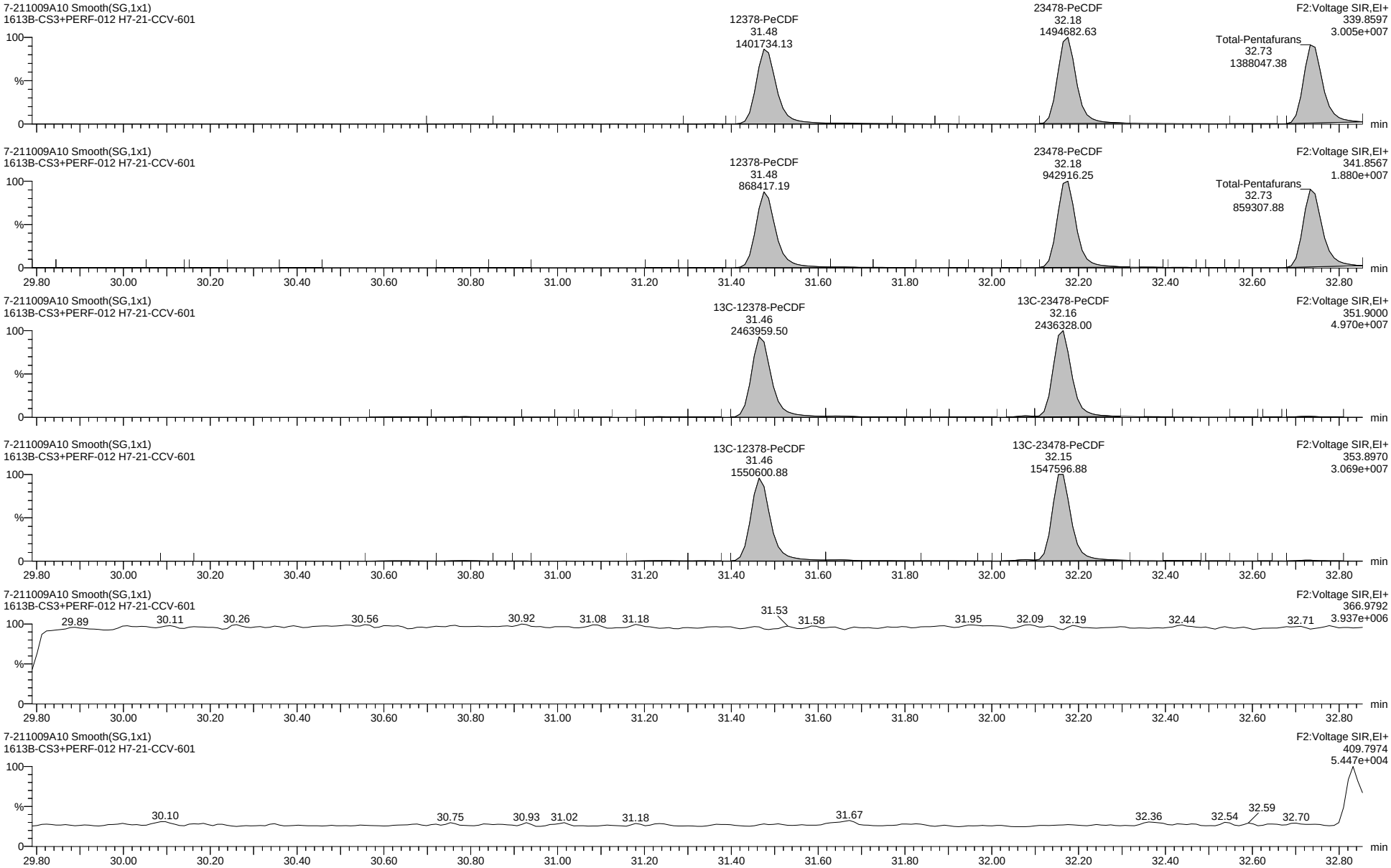

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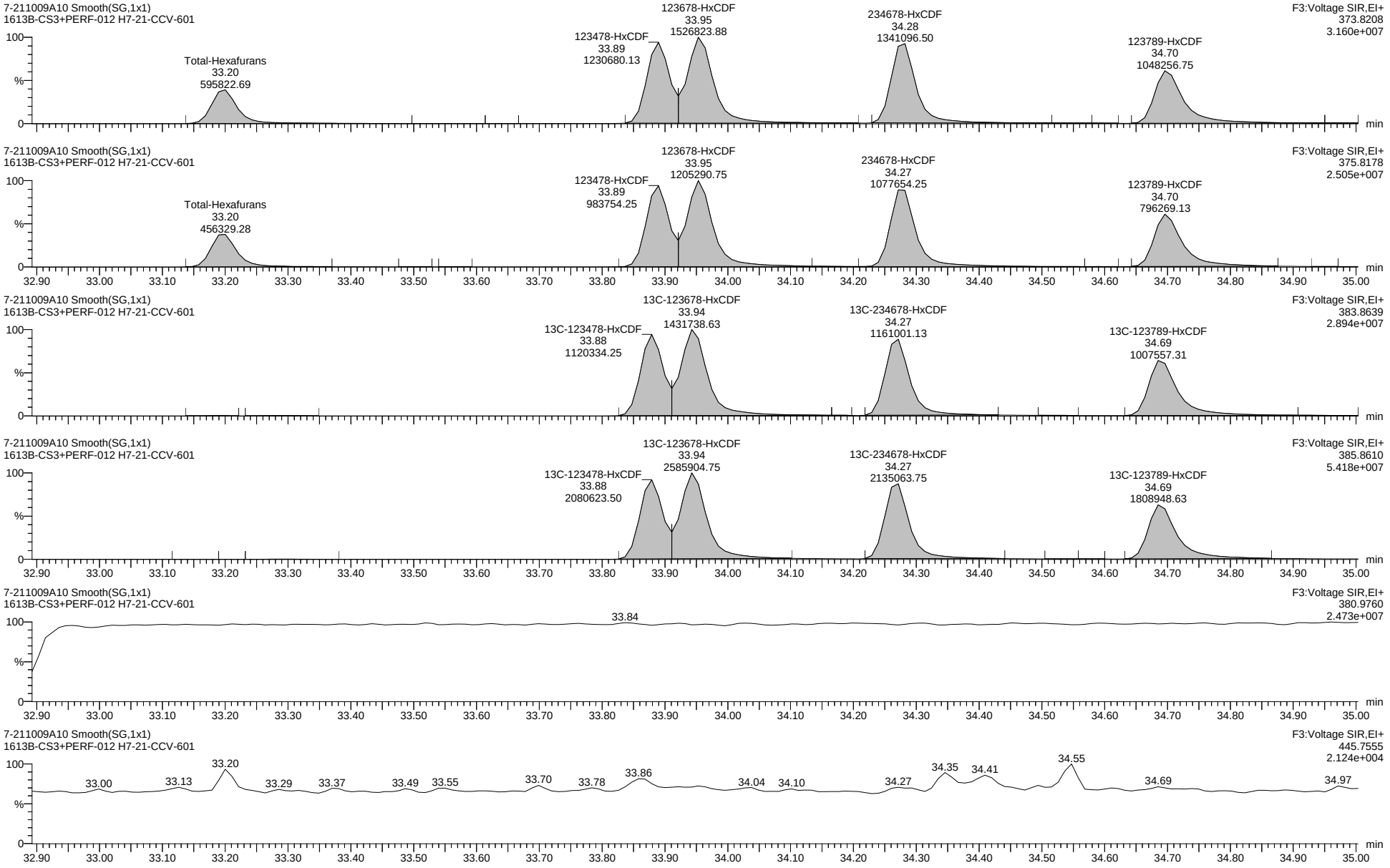

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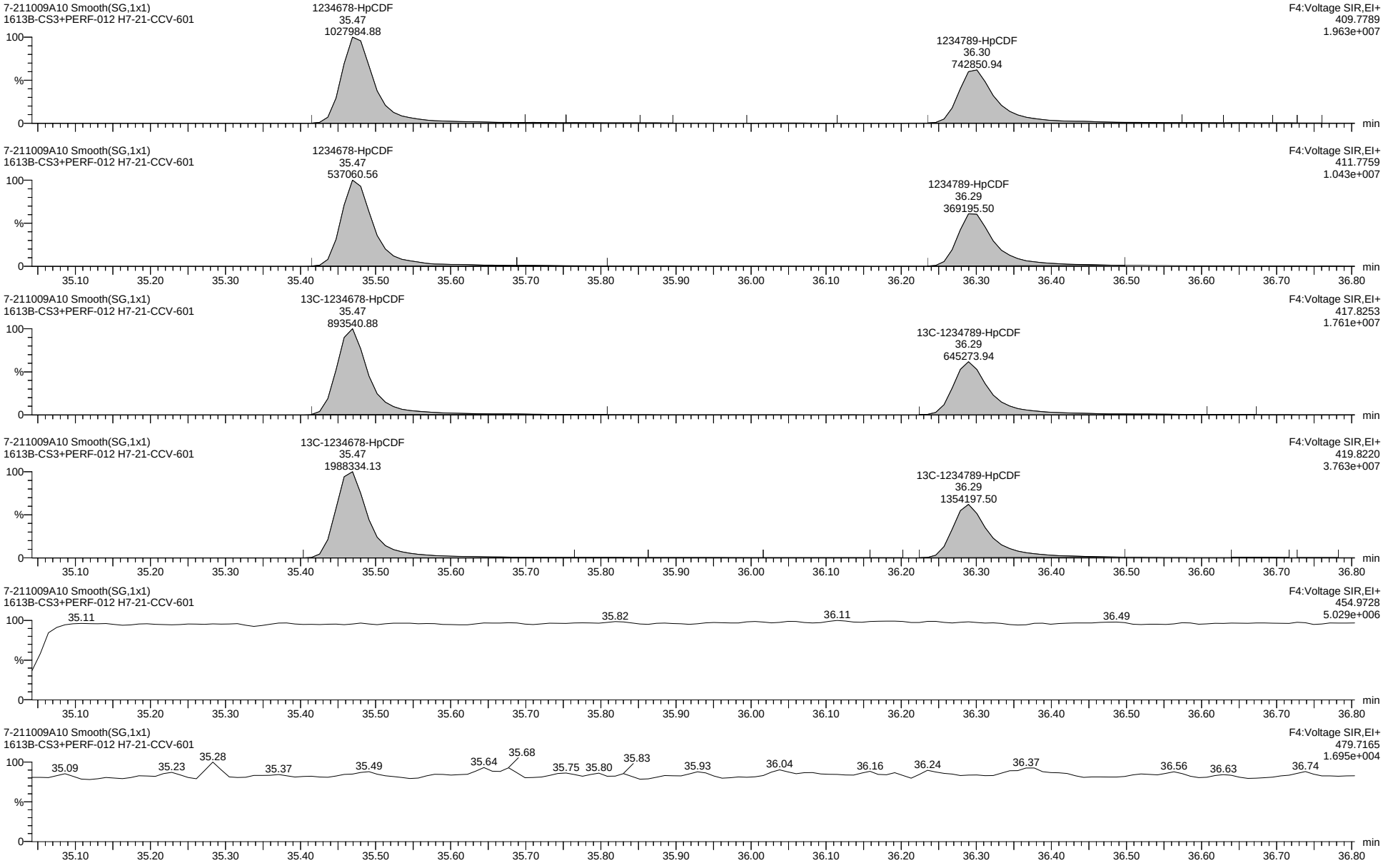

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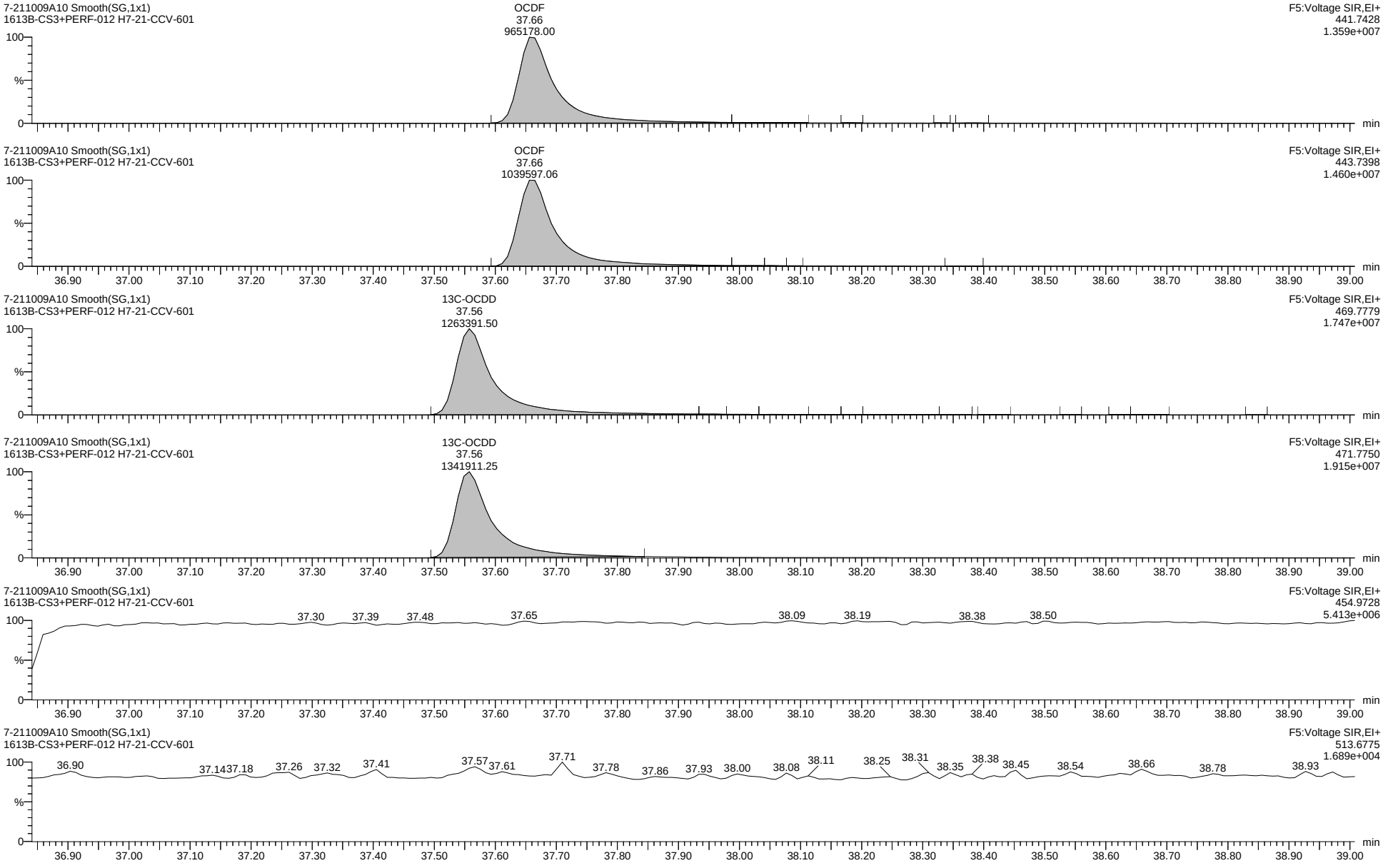

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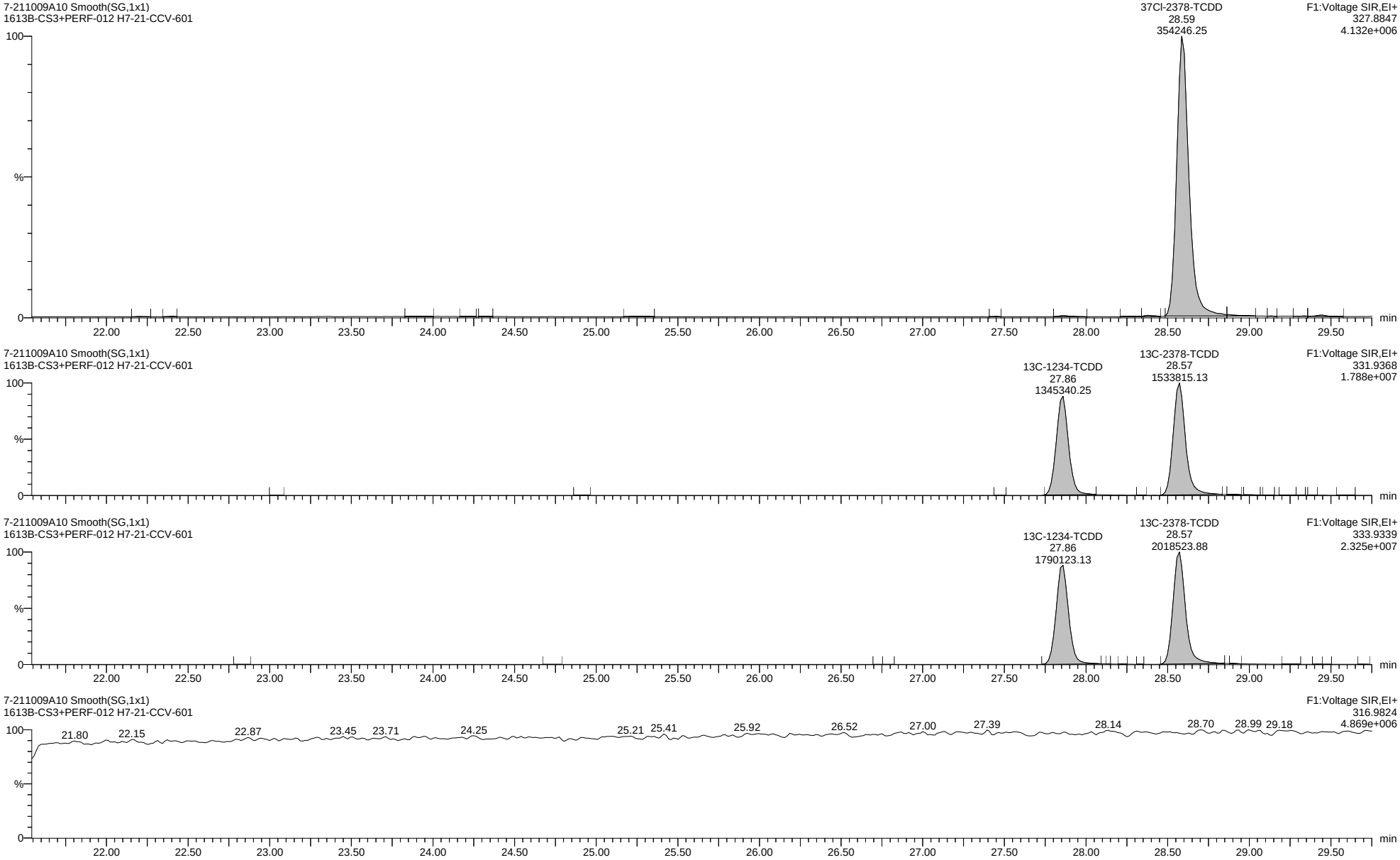

Quantify Sample Summary Report **MassLynx MassLynx V4.1 SCN 901**

Dataset: I:\Organics Instrument\HIGHRES GCMS Completed Results Files\HR-7\2021\2110\7-211009A1-1014KB.qld

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Printed: Thursday, October 14, 2021 10:47:51 Eastern Daylight Time

Method: C:\MassLynx\Dioxin.PRO\MethDB\Dioxin_1613B.mdb 30 Aug 2021 12:17:57
Calibration: C:\MassLynx\Dioxin.PRO\CurveDB\7-210611A-CAL5-1613.cdb 14 Jun 2021 09:35:05

Name: 7-211009A02, Date: 09-Oct-2021, Time: 03:37:25, ID: WG3603564-2, Description: LCS, Vial: Tray1:17

	Target Analyte	#Hom	Total Area	Ion1 Area	Ion2 Area	Ra	Ra Fail=YES	RT	RRT	RT LCL	RT UCL	pg	%Rec	Mod.Comment	Noise 1	Noise 2
1	2378-TCDD		319021	139367	179654	0.78	NO	28.59	1.00	28.55	28.62	320.17865	80.0		1163	1739
2	12378-PeCDD		1215651	744591	471060	1.58	NO	32.37	1.00	32.34	32.41	2194.8340	109.7		1700	1814
3	123478-HxCDD		822219	458623	363596	1.26	NO	34.36	1.00	34.32	34.39	2118.2845	105.9		1066	1494
4	123678-HxCDD		1114719	625395	489324	1.28	NO	34.41	1.00	34.38	34.44	1873.1310	93.7		1066	1494
5	123789-HxCDD		1108800	620584	488217	1.27	NO	34.54	1.00	34.50	34.57	2311.2460	115.6		1066	1494
6	1234678-HpCDD		673583	353843	319740	1.11	NO	36.03	1.00	35.99	36.06	2029.8588	101.5		3348	6047
7	OCDD		819125	388403	430723	0.90	NO	37.56	1.00	37.52	37.59	3798.1817	95.0		4174	3359
8	2378-TCDF		529132	237508	291625	0.81	NO	27.68	1.00	27.65	27.72	404.20668	101.1		1879	1753
9	12378-PeCDF		2199140	1363057	836083	1.63	NO	31.48	1.00	31.44	31.51	2153.8435	107.7		5897	4083
10	23478-PeCDF		2200549	1357825	842724	1.61	NO	32.16	1.00	32.13	32.20	1948.4825	97.4		5897	4083
11	123478-HxCDF		1717933	1005391	712542	1.41	NO	33.88	1.00	33.85	33.91	2115.9472	105.8		9974	9594
12	123678-HxCDF		2195449	1203204	992245	1.21	NO	33.95	1.00	33.92	33.99	1963.3794	98.2		9974	9594
13	234678-HxCDF		1834543	1029293	805250	1.28	NO	34.27	1.00	34.24	34.30	1918.5553	95.9		9974	9594
14	123789-HxCDF		1563495	888841	674654	1.32	NO	34.70	1.00	34.66	34.73	2122.2405	106.1		9974	9594
15	1234678-HpCDF		1102527	713205	389322	1.83	NO	35.47	1.00	35.44	35.50	1970.0709	98.5		9503	5395
16	1234789-HpCDF		794417	519729	274688	1.89	NO	36.29	1.00	36.26	36.32	2006.5564	100.3		9503	5395
17	OCDF		1262890	610915	651974	0.94	NO	37.66	1.00	37.62	37.69	4159.1669	104.0		5231	5482
18	13C-2378-TCDD		3432659	1474780	1957879	0.75	NO	28.57	1.03	28.54	28.61	2278.6769	57.0		3958	3021
19	13C-12378-PeCDD		2234716	1372912	861804	1.59	NO	32.35	1.16	32.32	32.38	2066.6293	51.7		2019	970
20	13C-123478-HxCDD		1495412	833529	661883	1.26	NO	34.35	0.99	34.31	34.38	1767.2805	44.2		1794	6402
21	13C-123678-HxCDD		2323387	1305703	1017684	1.28	NO	34.40	1.00	34.37	34.43	2621.2012	65.5		1794	6402
22	13C-1234678-HpCDD		1276052	653475	622577	1.05	NO	36.03	1.04	35.99	36.06	1944.2375	48.6		4954	5508
23	13C-OCDD		1612907	767645	845262	0.91	NO	37.55	1.09	37.52	37.58	3611.5495	45.1		4286	6637
24	13C-2378-TCDF		4956093	2171988	2784105	0.78	NO	27.67	0.99	27.64	27.70	2203.3654	55.1		3752	3745
25	13C-12378-PeCDF		3705323	2308665	1396658	1.65	NO	31.46	1.13	31.43	31.50	2091.8695	52.3		5413	7101
26	13C-23478-PeCDF		3706943	2284374	1422570	1.61	NO	32.15	1.15	32.12	32.19	2202.8339	55.1		5413	7101
27	13C-123478-HxCDF		2444797	904756	1540041	0.59	YES	33.87	0.98	33.83	33.90	2048.7169	51.2		1172	4400
28	13C-123678-HxCDF		3433604	1163881	2269723	0.51	NO	33.94	0.98	33.91	33.98	2614.5950	65.4		1172	4400
29	13C-234678-HxCDF		2698053	968104	1729949	0.56	NO	34.26	0.99	34.23	34.29	2429.6222	60.7		1172	4400
30	13C-123789-HxCDF		2261270	786308	1474962	0.53	NO	34.69	1.00	34.65	34.72	2257.5410	56.4		1172	4400
31	13C-1234678-HpCDF		2083118	671481	1411637	0.48	NO	35.46	1.03	35.42	35.49	2278.4639	57.0		11157	4732
32	13C-1234789-HpCDF		1431459	453338	978121	0.46	NO	36.28	1.05	36.25	36.31	2070.9621	51.8		11157	4732
33	13C-1234-TCDD		2560760	1113413	1447347	0.77	NO	27.86	0.00	27.83	27.89	322.07501	16.1		3958	3021
34	13C-123789-HxCDD		1826267	1023222	803045	1.27	NO	34.53	0.00	34.49	34.56	290.07942	14.5		1794	6402

Quantify Sample Summary Report **MassLynx MassLynx V4.1 SCN 901**

Dataset: I:\Organics Instrument\HIGHRES GCMS Completed Results Files\HR-7\2021\2110\7-211009A1-1014KB.qld

Last Altered: Thursday, October 14, 2021 10:12:56 Eastern Daylight Time
Printed: Thursday, October 14, 2021 10:47:51 Eastern Daylight Time

Name: 7-211009A02, Date: 09-Oct-2021, Time: 03:37:25, ID: WG3603564-2, Description: LCS, Vial: Tray1:17

	Target Analyte	#Hom	Total Area	Ion1 Area	Ion2 Area	Ra	Ra Fail=YES	RT	RRT	RT LCL	RT UCL	pg	%Rec	Mod.Comment	Noise 1	Noise 2
35	37Cl-2378-TCDD		36678	36678				28.59	1.00	28.55	28.62	23.885153	29.9		1706	
36	Total-Tetradioxins	2		139711								320.97673			1163	
37	Total-Pentadioxins	1		744591								2194.8340			1700	
38	Total-Hexadioxins	4		1708510								6317.8840			1066	
39	Total-Heptadioxins	1		353843								2029.8588			3348	
40	Total-OCDD	2		390367								3817.8731			4174	
41	Total-Tetrafurans	2		238222								405.45452			1879	
42	Total-PeCDF-F1	1		1862								3.2636671			1682	
43	Total-Pentafurans	7		2766627								4173.3333			5897	
44	Total-Hexafurans	5		4128752								8124.0148			9974	
45	Total-Heptafurans	2		1232934								3976.6273			9503	
46	Totals-OCDF	2		611135								4159.1669			5231	
47	Totals-37Cl-2378-TCDD	15		1380799								899.19546			1706	

Quantify Sample Summary Report **MassLynx MassLynx V4.1 SCN 901**

Dataset: I:\Organics Instrument\HIGHRES GCMS Completed Results Files\HR-7\2021\2110\7-211009A1-1014KB.qld

Last Altered: Thursday, October 14, 2021 10:12:56 Eastern Daylight Time
Printed: Thursday, October 14, 2021 10:47:51 Eastern Daylight Time

Name: 7-211009A08, Date: 09-Oct-2021, Time: 08:00:53, ID: WG3603564-1, Description: MB, Vial: Tray1:19

	Target Analyte	#Hom	Total Area	Ion1 Area	Ion2 Area	Ra	Ra Fail=YES	RT	RRT	RT LCL	RT UCL	pg	%Rec	Mod.Comment	Noise 1	Noise 2
1	2378-TCDD														1007	1156
2	12378-PeCDD														1247	970
3	123478-HxCDD														774	1504
4	123678-HxCDD														774	1504
5	123789-HxCDD														774	1504
6	1234678-HpCDD		336	107	229	0.47	YES	36.04	1.00	36.00	36.07	0.67289282			1533	1064
7	OCDD		828	266	562	0.47	YES	37.56	1.00	37.52	37.59	2.7245973		KB211014MB	742	849
8	2378-TCDF														1417	1641
9	12378-PeCDF		1062	589	472	1.25	YES	31.48	1.00	31.44	31.51	0.62271846		KB211014MB	1519	1853
10	23478-PeCDF		437	231	206	1.12	YES	32.18	1.00	32.14	32.21	0.23519044			1519	1853
11	123478-HxCDF		351	183	168	1.09	NO	33.90	1.00	33.87	33.93	0.27140358			737	1397
12	123678-HxCDF														737	1397
13	234678-HxCDF														737	1397
14	123789-HxCDF		932	414	518	0.80	YES	34.70	1.00	34.66	34.73	0.80025462			737	1397
15	1234678-HpCDF		291	181	110	1.65	NO	35.49	1.00	35.46	35.52	0.33666442			622	1071
16	1234789-HpCDF														622	1071
17	OCDF														858	1035
18	13C-2378-TCDD		5847174	2554397	3292777	0.78	NO	28.57	1.03	28.54	28.61	2543.2991	63.6		2828	2600
19	13C-12378-PeCDD		3678416	2244027	1434389	1.56	NO	32.36	1.16	32.33	32.39	2228.9510	55.7		2409	1403
20	13C-123478-HxCDD		2401308	1334205	1067103	1.25	NO	34.36	0.99	34.32	34.39	2041.2868	51.0		4587	2572
21	13C-123678-HxCDD		3463815	1948688	1515128	1.29	NO	34.41	1.00	34.38	34.44	2810.8985	70.3		4587	2572
22	13C-1234678-HpCDD		1919830	990469	929361	1.07	NO	36.03	1.04	35.99	36.06	2104.0453	52.6		2656	4274
23	13C-OCDD		2274027	1108171	1165856	0.95	NO	37.56	1.09	37.52	37.59	3662.6158	45.8		7006	6073
24	13C-2378-TCDF		8318965	3645116	4673849	0.78	NO	27.67	0.99	27.64	27.70	2423.3479	60.6		4156	3346
25	13C-12378-PeCDF		6186465	3807571	2378895	1.60	NO	31.48	1.13	31.44	31.51	2288.4978	57.2		1865	4055
26	13C-23478-PeCDF		6104073	3744702	2359371	1.59	NO	32.16	1.15	32.13	32.20	2376.7576	59.4		1865	4055
27	13C-123478-HxCDF		3897183	1359397	2537786	0.54	NO	33.88	0.98	33.85	33.91	2349.1000	58.7		1500	1120
28	13C-123678-HxCDF		5326896	1863709	3463187	0.54	NO	33.94	0.98	33.91	33.98	2917.6958	72.9		1500	1120
29	13C-234678-HxCDF		4133937	1449634	2684303	0.54	NO	34.27	0.99	34.24	34.30	2677.7111	66.9		1500	1120
30	13C-123789-HxCDF		3573489	1273392	2300097	0.55	NO	34.70	1.00	34.66	34.73	2566.1804	64.2		1500	1120
31	13C-1234678-HpCDF		3222798	1012405	2210394	0.46	NO	35.47	1.03	35.44	35.50	2535.5543	63.4		8505	3050
32	13C-1234789-HpCDF		2052882	623058	1429825	0.44	NO	36.29	1.05	36.26	36.32	2136.3327	53.4		8505	3050
33	13C-1234-TCDD		3908135	1689360	2218776	0.76	NO	27.86	0.00	27.83	27.89	491.53865	24.6		2828	2600
34	13C-123789-HxCDD		2538941	1409132	1129809	1.25	NO	34.54	0.00	34.50	34.57	403.27877	20.2		4587	2572
35	37Cl-2378-TCDD		110566	110566				28.60	1.00	28.57	28.63	47.178628	59.0		1194	
36	Total-Tetradioxins			0								0.00000000			1007	
37	Total-Pentadioxins			0								0.00000000			1247	

Dataset: I:\Organics Instrument\HIGHRES GCMS Completed Results Files\HR-7\2021\2110\7-211009A1-1014KB.qld

Last Altered: Thursday, October 14, 2021 10:12:56 Eastern Daylight Time
Printed: Thursday, October 14, 2021 10:47:51 Eastern Daylight Time

Name: 7-211009A08, Date: 09-Oct-2021, Time: 08:00:53, ID: WG3603564-1, Description: MB, Vial: Tray1:19

	Target Analyte	#Hom	Total Area	Ion1 Area	Ion2 Area	Ra	Ra Fail=YES	RT	RRT	RT LCL	RT UCL	pg	%Rec	Mod.Comment	Noise 1	Noise 2
38	Total-Hexadioxins			0								0.00000000			774	
39	Total-Heptadioxins			0								0.00000000			1533	
40	Total-OCDD			0								0.00000000			742	
41	Total-Tetrafurans			0								0.00000000			1417	
42	Total-PeCDF-F1			0											1711	
43	Total-Pentafurans			0								0.00000000			1519	
44	Total-Hexafurans	1		183								0.27140358			737	
45	Total-Heptafurans	1		181								0.33666442			622	
46	Totals-OCDF			0											858	
47	Totals-37Cl-2378-TCDD	6		112234								47.890078			1194	

Quantify Audit Report MassLynx MassLynx V4.1 SCN 901

Dataset: I:\Organics Instrument\HIGHRES GCMS Completed Results Files\HR-7\2021\2110\7-211009A1-1014KB.qld

Last Altered: Thursday, October 14, 2021 10:12:56 Eastern Daylight Time
Printed: Thursday, October 14, 2021 10:47:51 Eastern Daylight Time

Date	Time	Event	Details	Comments
14-Oct-21	10:06:06	Process Extract		
14-Oct-21	10:06:06	Process Integrate		
14-Oct-21	10:06:06	Process Quantify		
14-Oct-21	10:06:07	Dataset Created		
14-Oct-21	10:06:31	Dataset Saved	Saved to 'I:\Organics Instrument\HIGHRES GCMS Complete...	
14-Oct-21	10:06:49	Dataset Saved	Saved to 'I:\Organics Instrument\HIGHRES GCMS Complete...	
14-Oct-21	10:07:05	Peak deleted	Sample:7-211009A02, Compound:PF-f1, RT:24.483	
14-Oct-21	10:07:05	Peak deleted	Sample:7-211009A02, Compound:PF-f1, RT:24.206	
14-Oct-21	10:07:05	Peak deleted	Sample:7-211009A02, Compound:PF-f1, RT:22.212	
14-Oct-21	10:07:05	Peak deleted	Sample:7-211009A02, Compound:PF-f1, RT:22.023	
14-Oct-21	10:07:05	Peak deleted	Sample:7-211009A02, Compound:PF-f1, RT:21.892	
14-Oct-21	10:07:05	Peak deleted	Sample:7-211009A02, Compound:PF-f1, RT:29.402	
14-Oct-21	10:07:05	Peak deleted	Sample:7-211009A02, Compound:PF-f1, RT:29.271	
14-Oct-21	10:07:05	Peak deleted	Sample:7-211009A02, Compound:PF-f1, RT:28.601	
14-Oct-21	10:07:05	Peak deleted	Sample:7-211009A02, Compound:PF-f1, RT:27.888	
14-Oct-21	10:07:05	Peak deleted	Sample:7-211009A02, Compound:PF-f1, RT:27.713	
14-Oct-21	10:07:05	Peak deleted	Sample:7-211009A02, Compound:PF-f1, RT:27.422	
14-Oct-21	10:07:05	Peak deleted	Sample:7-211009A02, Compound:PF-f1, RT:26.651	
14-Oct-21	10:07:05	Peak deleted	Sample:7-211009A02, Compound:PF-f1, RT:26.535	
14-Oct-21	10:07:05	Peak deleted	Sample:7-211009A02, Compound:PF-f1, RT:26.142	
14-Oct-21	10:07:05	Peak deleted	Sample:7-211009A02, Compound:PF-f1, RT:25.138	
14-Oct-21	10:07:05	Peak deleted	Sample:7-211009A02, Compound:PF-f1, RT:24.977	
14-Oct-21	10:07:05	Peak deleted	Sample:7-211009A02, Compound:PF-f1, RT:24.905	
14-Oct-21	10:07:05	Peak deleted	Sample:7-211009A02, Compound:PF-f1, RT:24.628	
14-Oct-21	10:07:11	Peak deleted	Sample:7-211009A08, Compound:PF-f1, RT:26.695	
14-Oct-21	10:07:11	Peak deleted	Sample:7-211009A08, Compound:PF-f1, RT:25.589	
14-Oct-21	10:07:11	Peak deleted	Sample:7-211009A08, Compound:PF-f1, RT:24.905	
14-Oct-21	10:07:11	Peak deleted	Sample:7-211009A08, Compound:PF-f1, RT:24.599	
14-Oct-21	10:07:11	Peak deleted	Sample:7-211009A08, Compound:PF-f1, RT:23.871	
14-Oct-21	10:07:11	Peak deleted	Sample:7-211009A08, Compound:PF-f1, RT:23.755	
14-Oct-21	10:07:11	Peak deleted	Sample:7-211009A08, Compound:PF-f1, RT:23.333	
14-Oct-21	10:07:11	Peak deleted	Sample:7-211009A08, Compound:PF-f1, RT:21.936	
14-Oct-21	10:07:11	Peak deleted	Sample:7-211009A08, Compound:PF-f1, RT:29.140	
14-Oct-21	10:07:11	Peak deleted	Sample:7-211009A08, Compound:PF-f1, RT:28.979	
14-Oct-21	10:07:11	Peak deleted	Sample:7-211009A08, Compound:PF-f1, RT:28.805	
14-Oct-21	10:07:11	Peak deleted	Sample:7-211009A08, Compound:PF-f1, RT:28.572	
14-Oct-21	10:07:11	Peak deleted	Sample:7-211009A08, Compound:PF-f1, RT:28.528	
14-Oct-21	10:07:11	Peak deleted	Sample:7-211009A08, Compound:PF-f1, RT:27.160	
14-Oct-21	10:07:11	Peak deleted	Sample:7-211009A08, Compound:PF-f1, RT:26.782	
14-Oct-21	10:08:35	Peak deleted	Sample:7-211009A02, Compound:HPD, RT:36.629	
14-Oct-21	10:08:35	Peak deleted	Sample:7-211009A02, Compound:HPD, RT:36.465	
14-Oct-21	10:08:35	Peak deleted	Sample:7-211009A02, Compound:HPD, RT:35.776	
14-Oct-21	10:08:35	Peak deleted	Sample:7-211009A02, Compound:HPD, RT:35.469	
14-Oct-21	10:08:35	Peak deleted	Sample:7-211009A02, Compound:HPD, RT:36.749	
14-Oct-21	10:08:35	Peak deleted	Sample:7-211009A02, Compound:HPD, RT:36.684	
14-Oct-21	10:08:54	Peak deleted	Sample:7-211009A02, Compound:TF, RT:22.474	
14-Oct-21	10:08:54	Peak deleted	Sample:7-211009A02, Compound:TF, RT:27.422	
14-Oct-21	10:09:46	Peak deleted	Sample:7-211009A08, Compound:HXD, RT:34.653	
14-Oct-21	10:09:46	Peak deleted	Sample:7-211009A08, Compound:HXD, RT:34.399	
14-Oct-21	10:09:46	Peak deleted	Sample:7-211009A08, Compound:HXD, RT:34.239	
14-Oct-21	10:09:46	Peak deleted	Sample:7-211009A08, Compound:HXD, RT:33.921	
14-Oct-21	10:09:46	Peak deleted	Sample:7-211009A08, Compound:HXD, RT:33.858	
14-Oct-21	10:09:55	Peak deleted	Sample:7-211009A08, Compound:HPD, RT:36.355	

Quantify Audit Report MassLynx MassLynx V4.1 SCN 901

Dataset: I:\Organics Instrument\HIGHRES GCMS Completed Results Files\HR-7\2021\2110\7-211009A1-1014KB.qld

Last Altered: Thursday, October 14, 2021 10:12:56 Eastern Daylight Time
Printed: Thursday, October 14, 2021 10:47:51 Eastern Daylight Time

Date	Time	Event	Details	Comments
14-Oct-21	10:09:55	Peak deleted	Sample:7-211009A08, Compound:HPD, RT:36.301	
14-Oct-21	10:09:55	Peak deleted	Sample:7-211009A08, Compound:HPD, RT:36.071	
14-Oct-21	10:09:55	Peak deleted	Sample:7-211009A08, Compound:HPD, RT:35.458	
14-Oct-21	10:10:00	Pre modification peak	Sample:7-211009A08, Compound:OCD, RT:37.557	
14-Oct-21	10:10:00	Peak modified	Sample:7-211009A08, Compound:OCD, RT:37.557	KB211014MB
14-Oct-21	10:12:32	Peak deleted	Sample:7-211009A08, Compound:TF, RT:22.503	
14-Oct-21	10:12:45	Pre modification peak	Sample:7-211009A08, Compound:PF-f2, RT:31.201	
14-Oct-21	10:12:45	Peak modified	Sample:7-211009A08, Compound:PF-f2, RT:31.201	
14-Oct-21	10:12:54	Pre modification peak	Sample:7-211009A08, Compound:PF-f2, RT:31.486	
14-Oct-21	10:12:54	Peak modified	Sample:7-211009A08, Compound:PF-f2, RT:31.486	KB211014MB
14-Oct-21	10:13:04	Dataset Saved	Saved to 'I:\Organics Instrument\HIGHRES GCMS Complete...	

Dataset: I:\Organics Instrument\HIGHRES GCMS Completed Results Files\HR-7\2021\2110\7-211009A1-1014KB.qld

Last Altered: Thursday, October 14, 2021 10:12:56 Eastern Daylight Time
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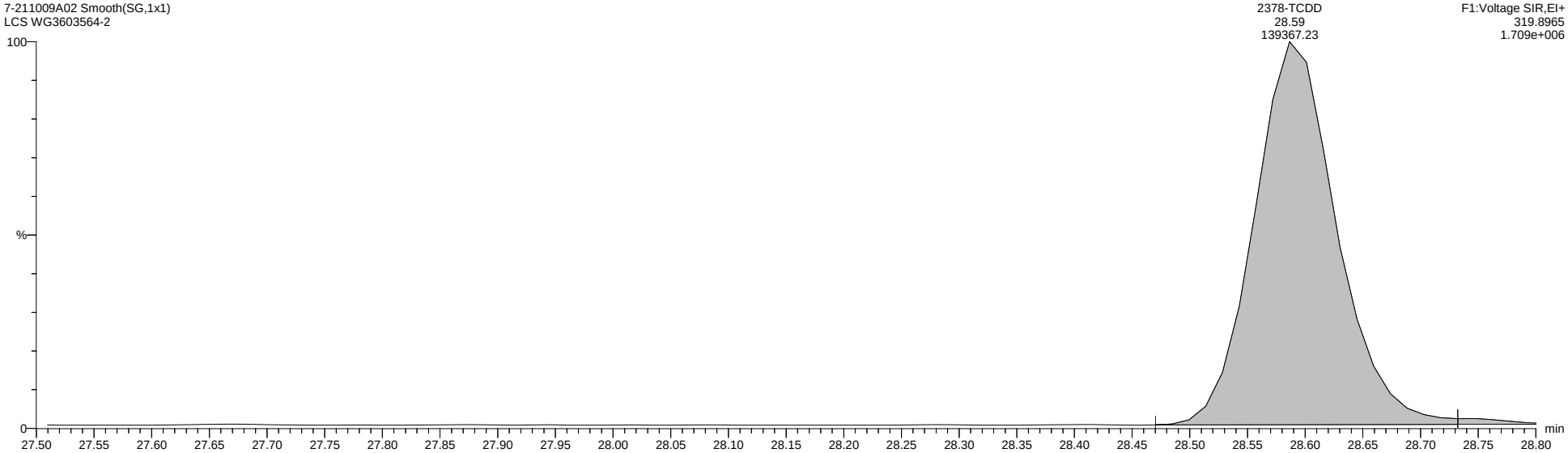
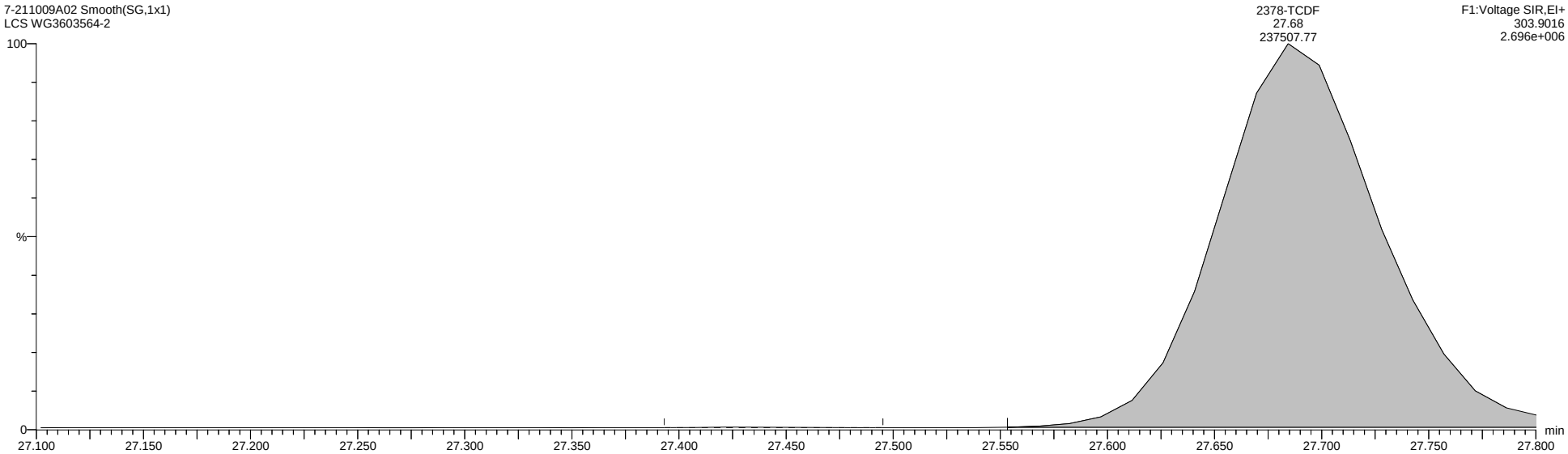
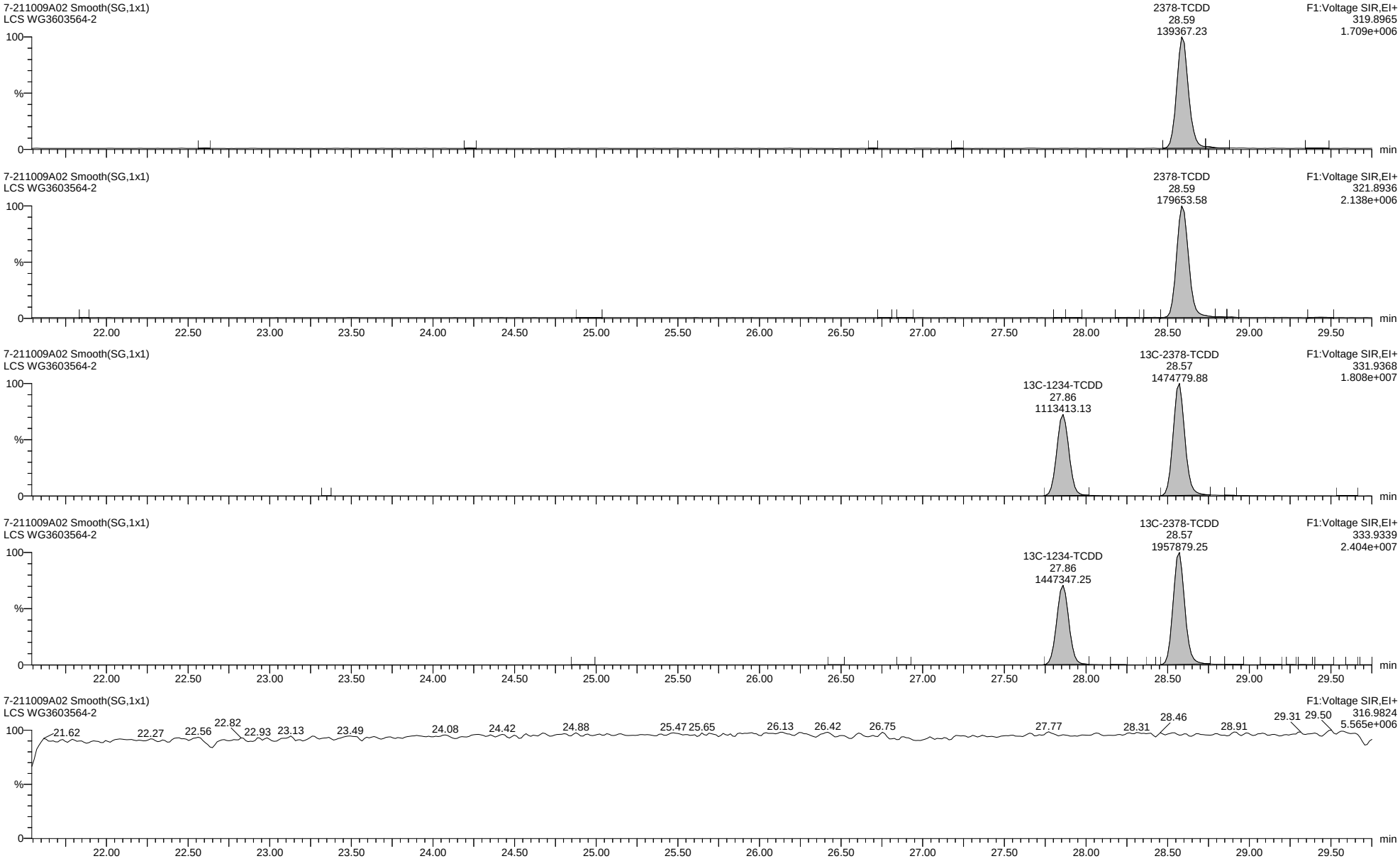
Method: C:\MassLynx\Dioxin.PRO\MethDB\Dioxin_1613B.mdb 30 Aug 2021 12:17:57
Calibration: C:\MassLynx\Dioxin.PRO\CurveDB\7-210611A-CAL5-1613.cdb 14 Jun 2021 09:35:05

Name: 7-211009A02, Date: 09-Oct-2021, Time: 03:37:25, ID: WG3603564-2, Description: LCS, Vial: Tray1:17

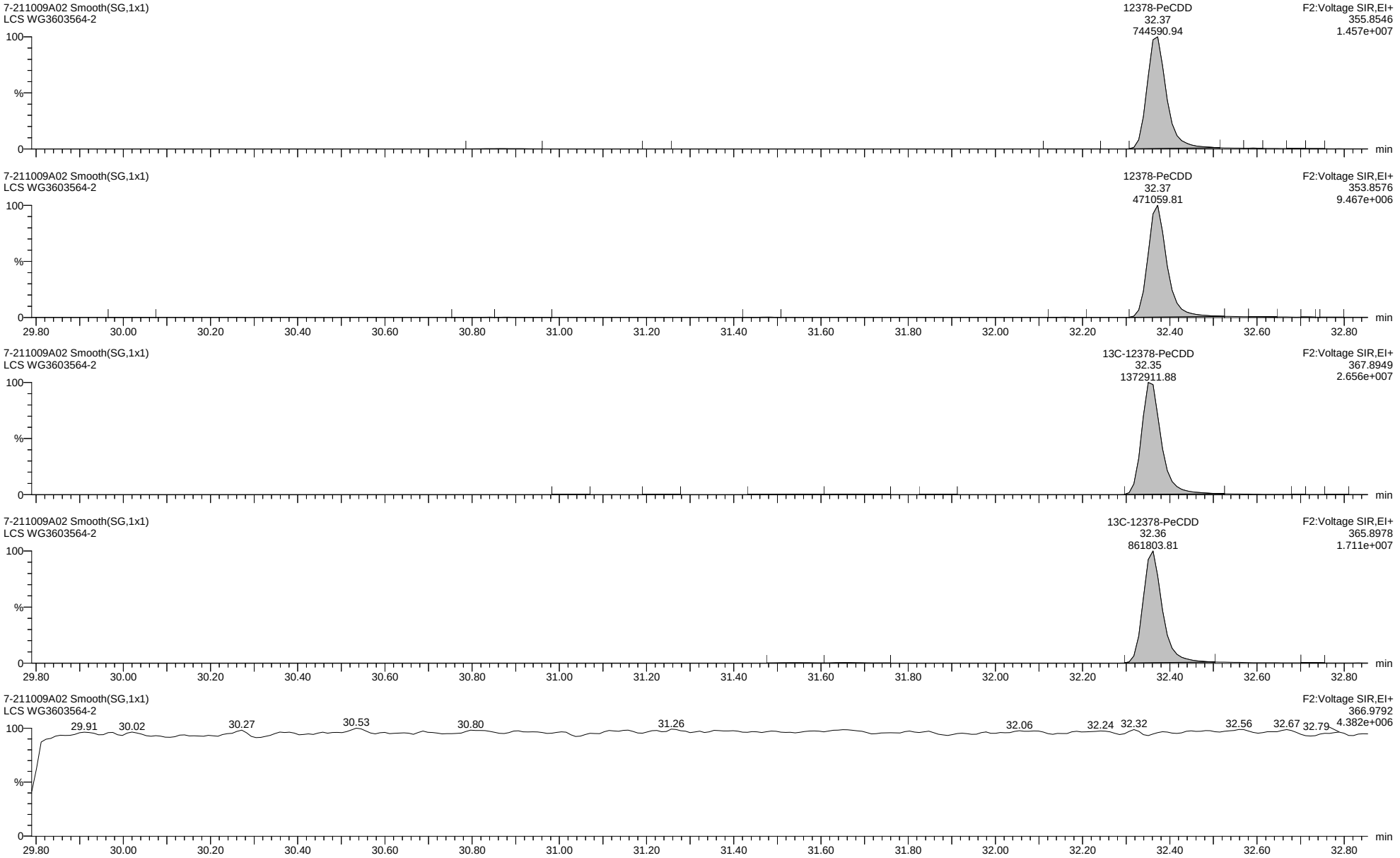




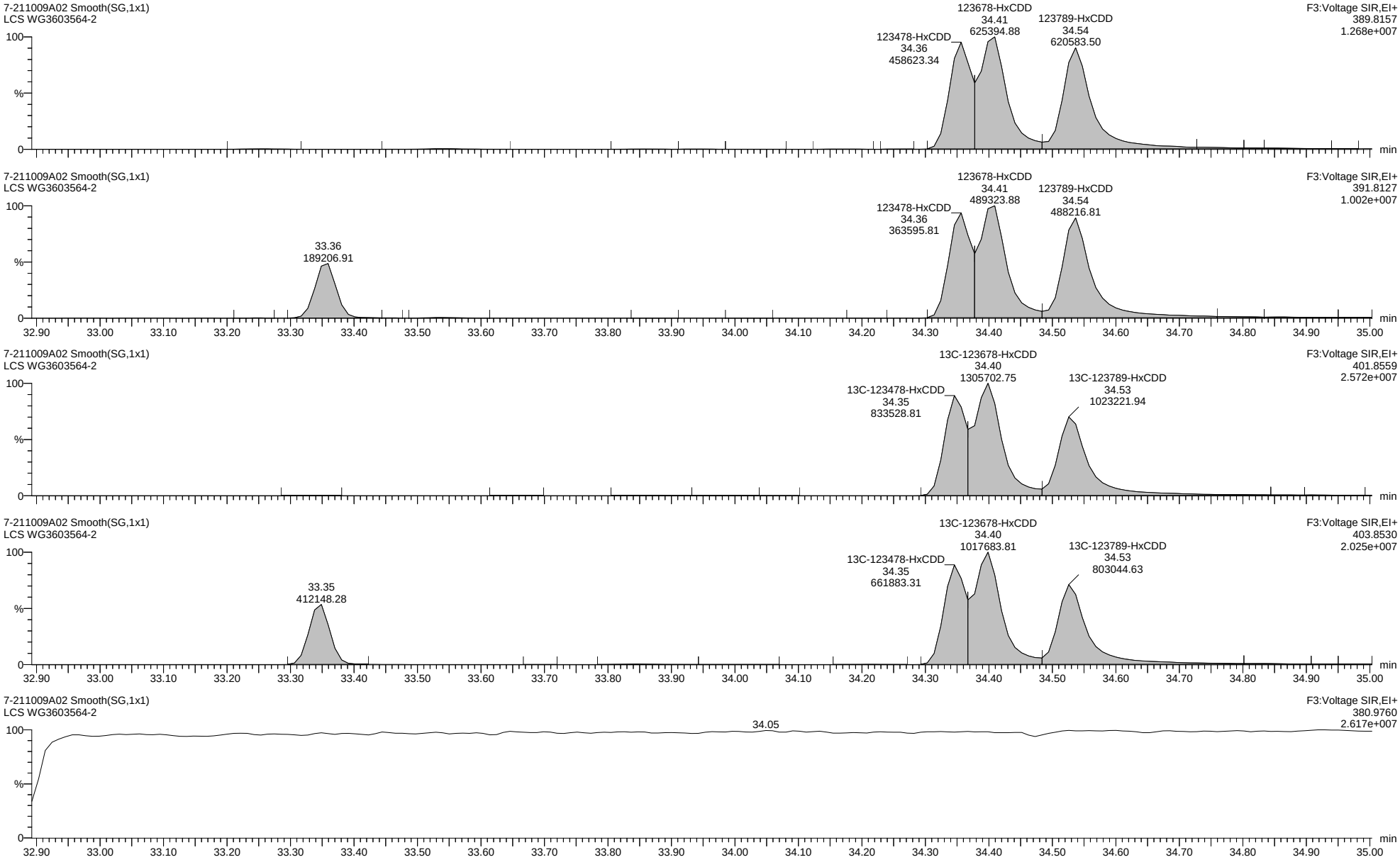
Name: 7-211009A02, Date: 09-Oct-2021, Time: 03:37:25, ID: WG3603564-2, Description: LCS, Vial: Tray1:17



Name: 7-211009A02, Date: 09-Oct-2021, Time: 03:37:25, ID: WG3603564-2, Description: LCS, Vial: Tray1:17



Name: 7-211009A02, Date: 09-Oct-2021, Time: 03:37:25, ID: WG3603564-2, Description: LCS, Vial: Tray1:17



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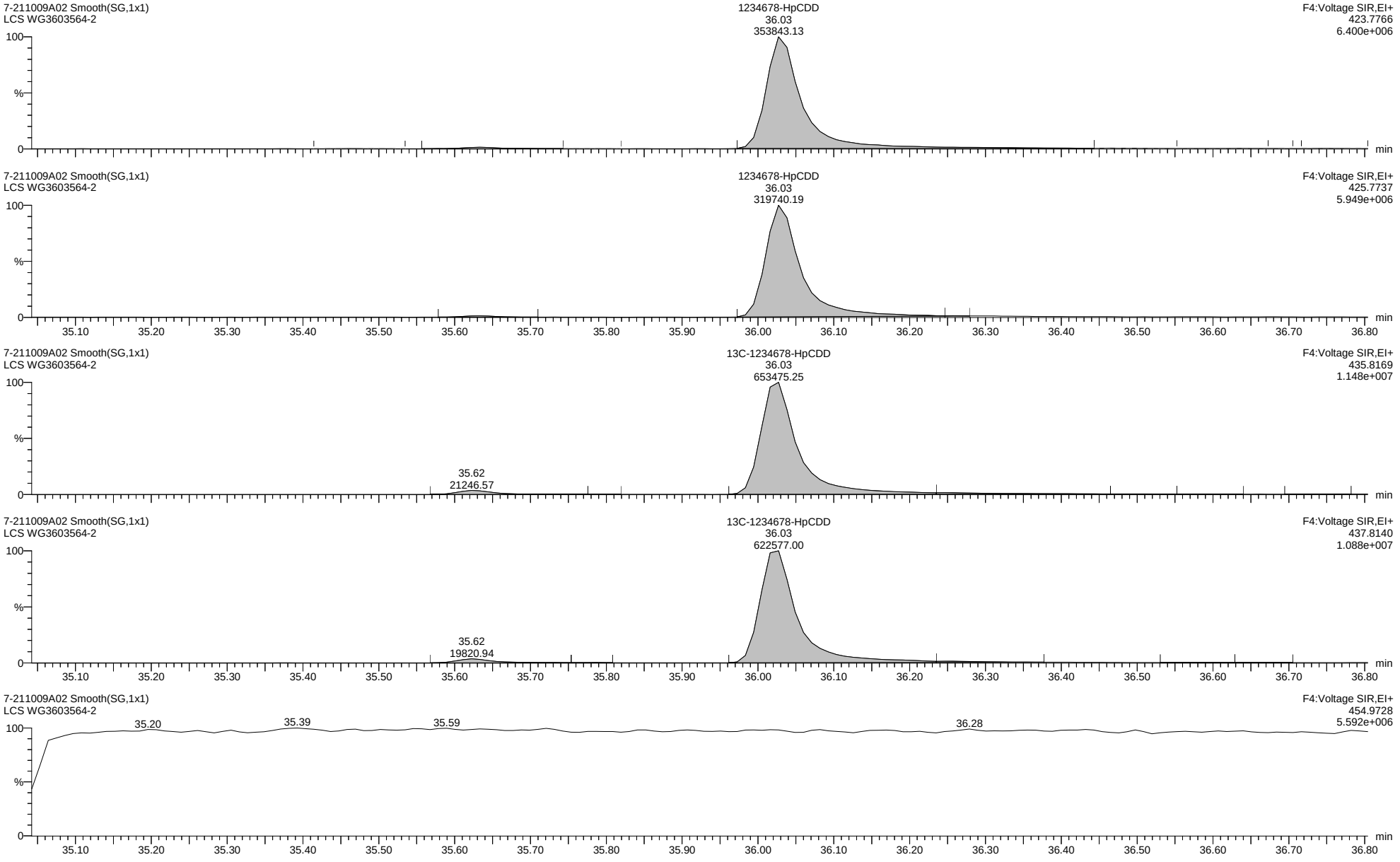

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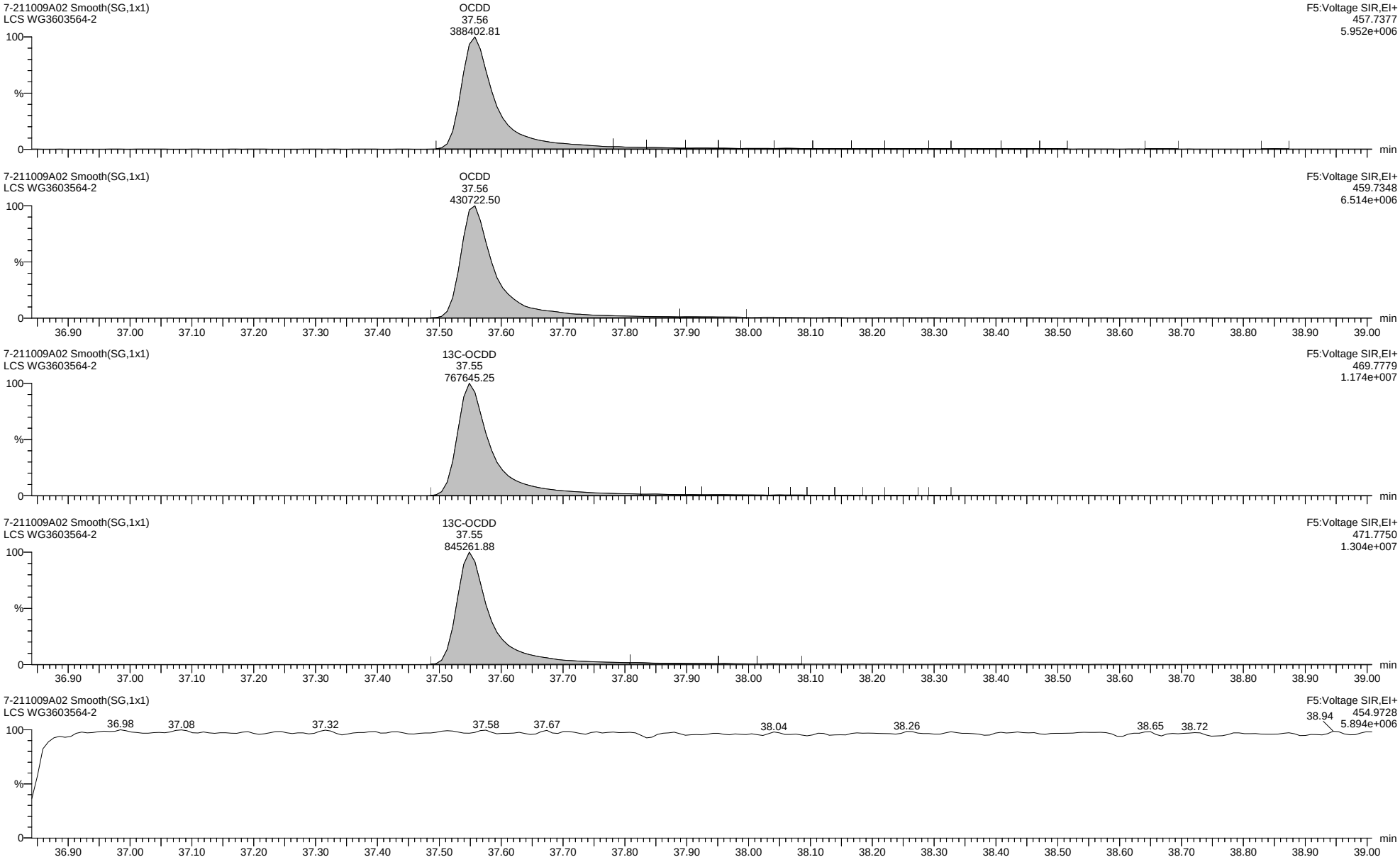

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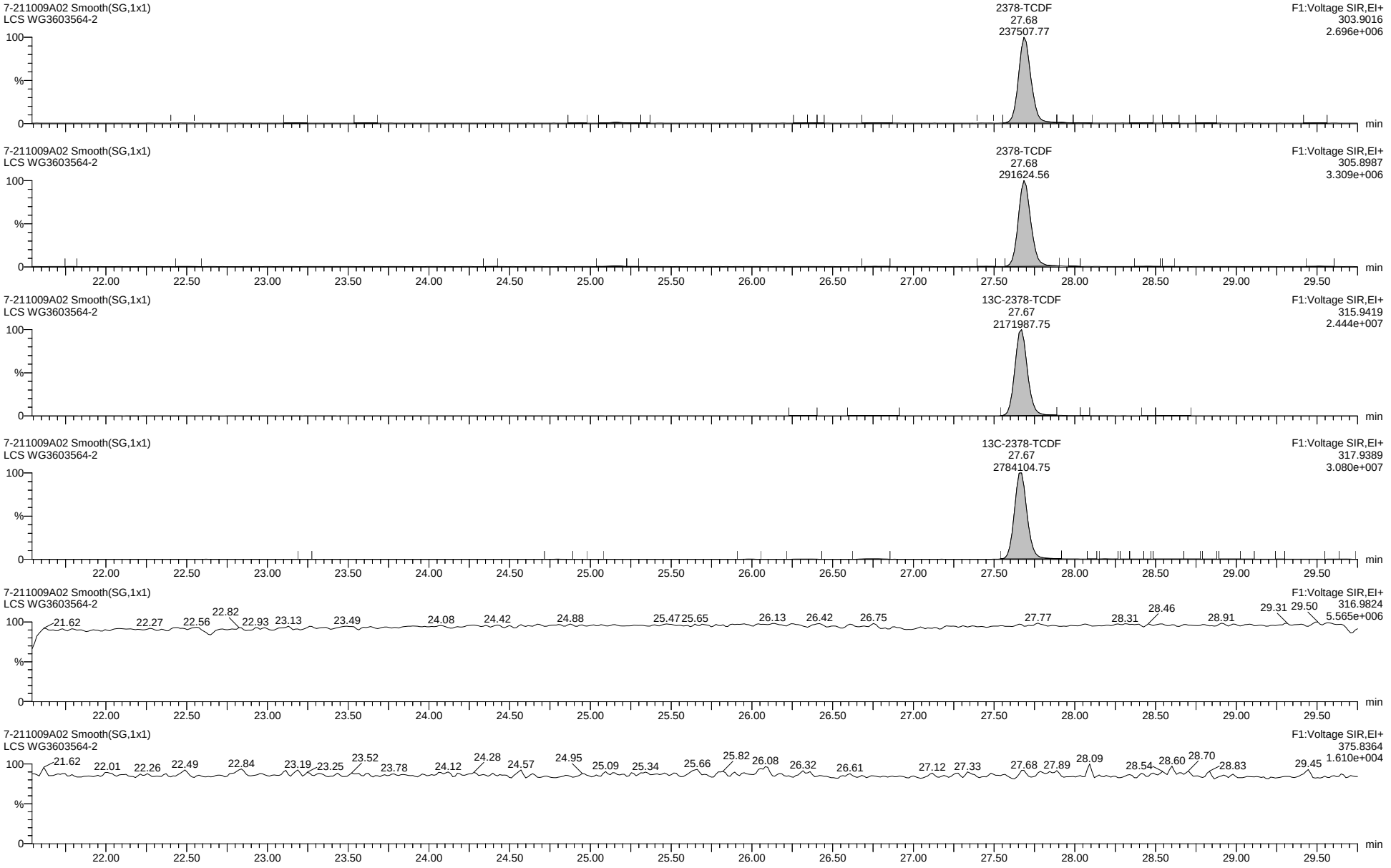

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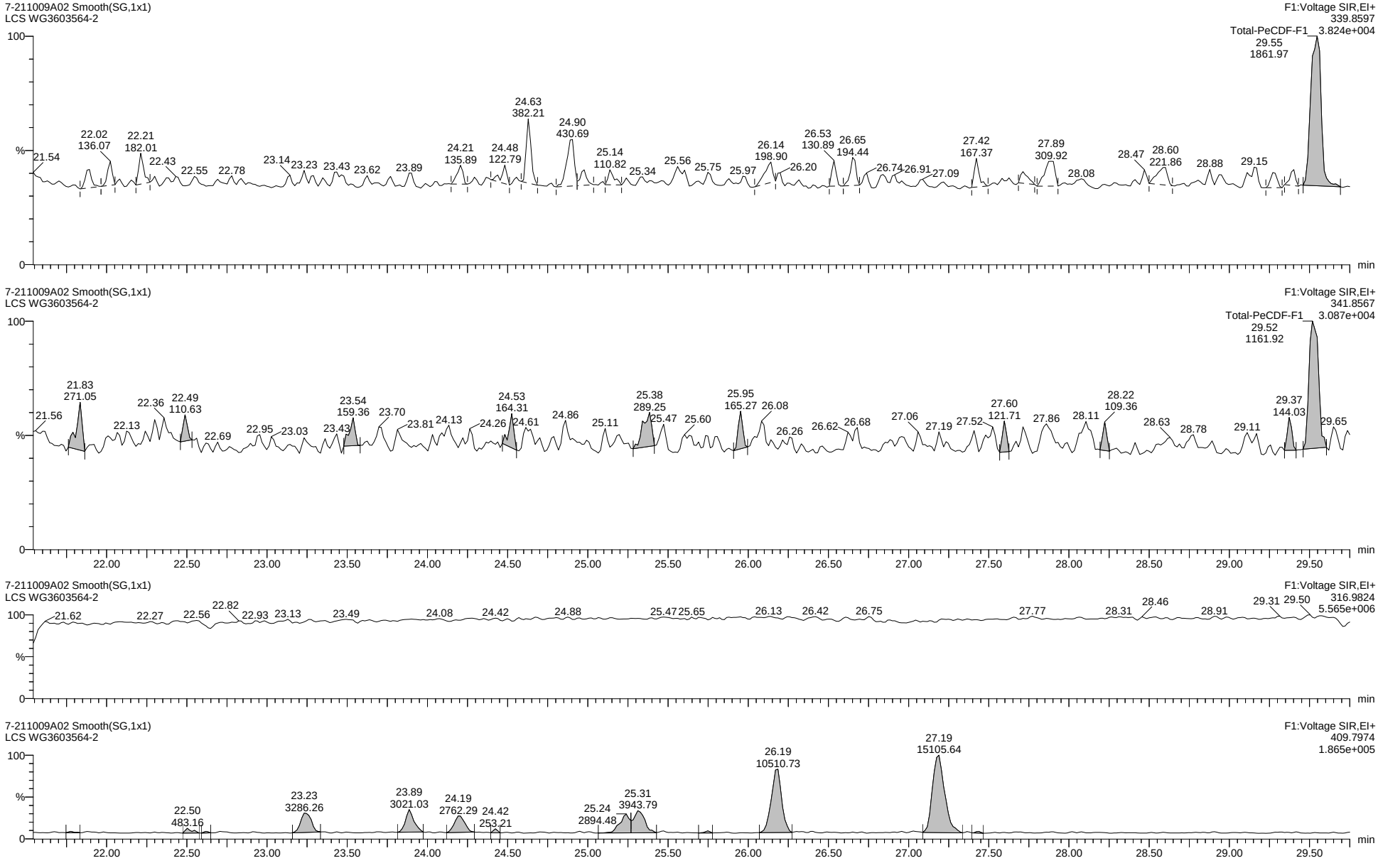

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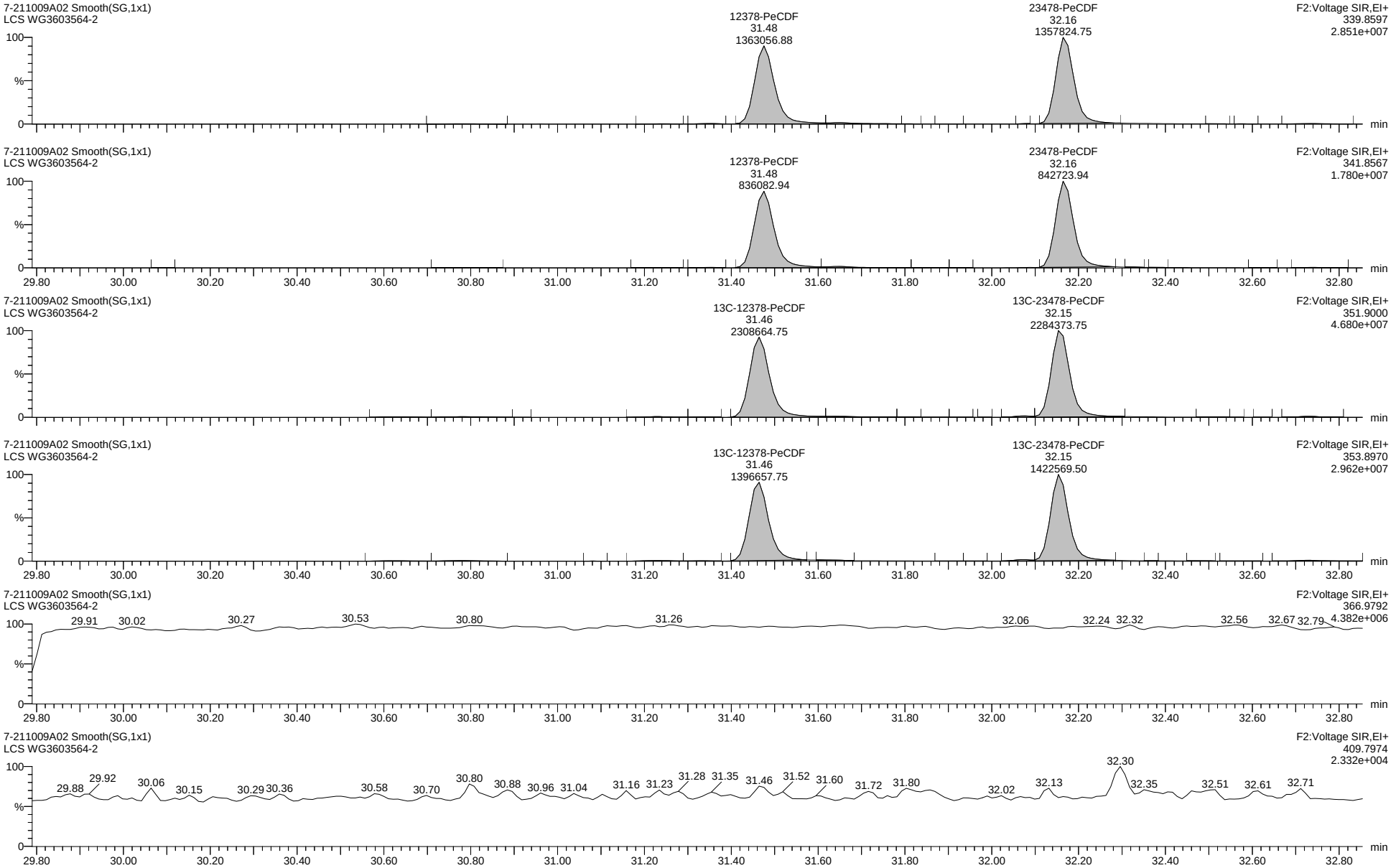

Quantify Sample Template Report **MassLynx MassLynx V4.1 SCN 901**

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Printed: Thursday, October 14, 2021 10:47:51 Eastern Daylight Time

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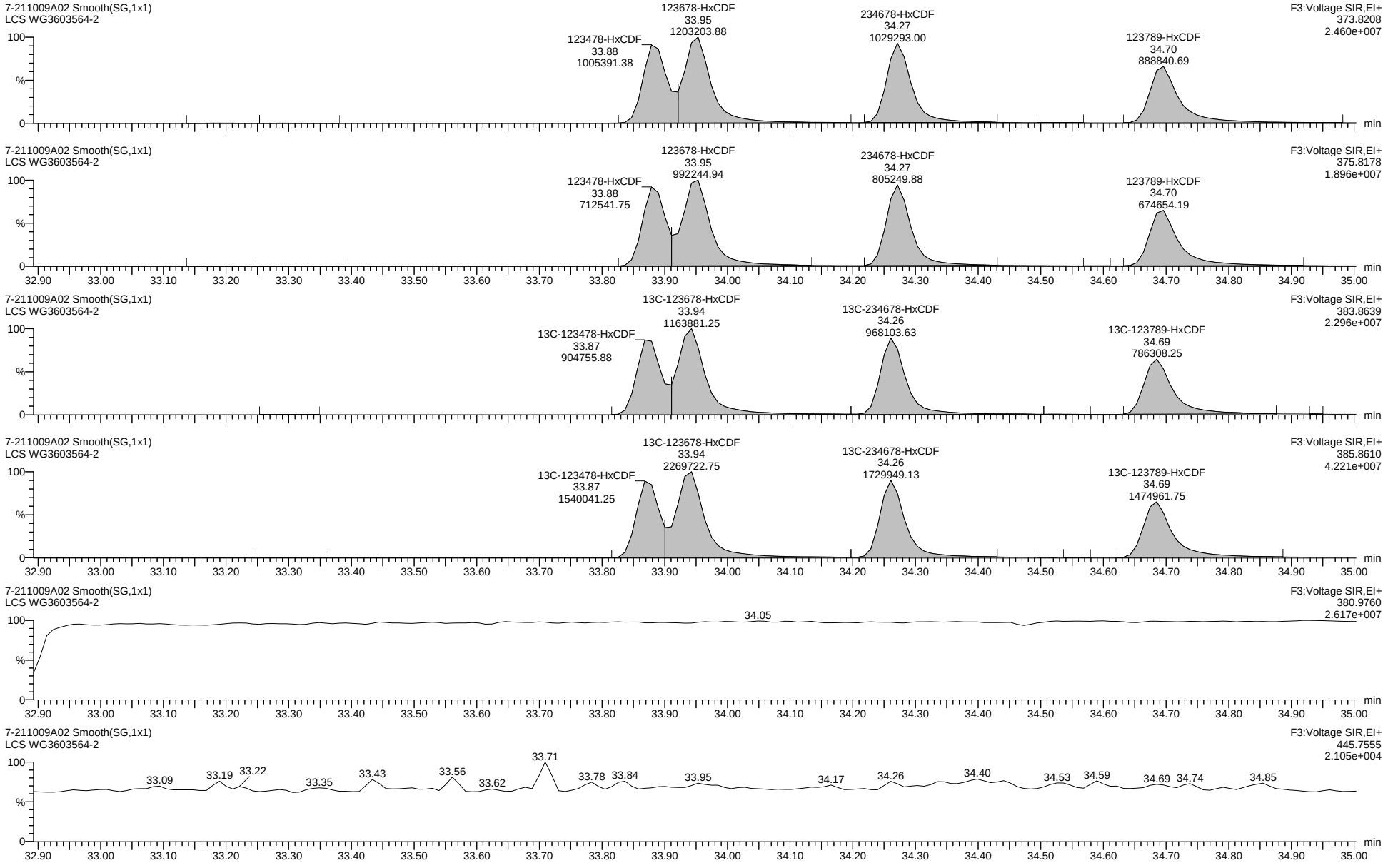

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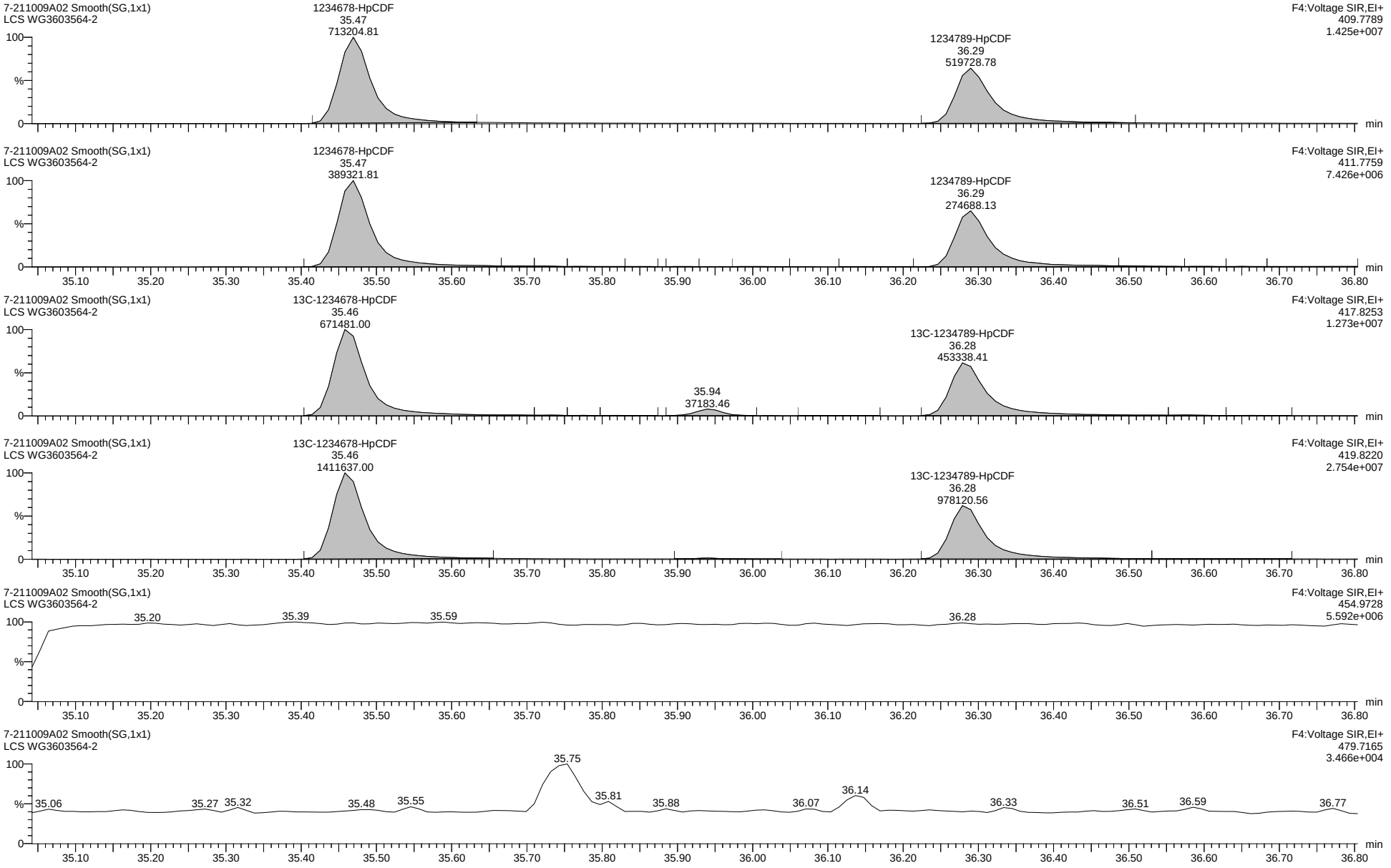

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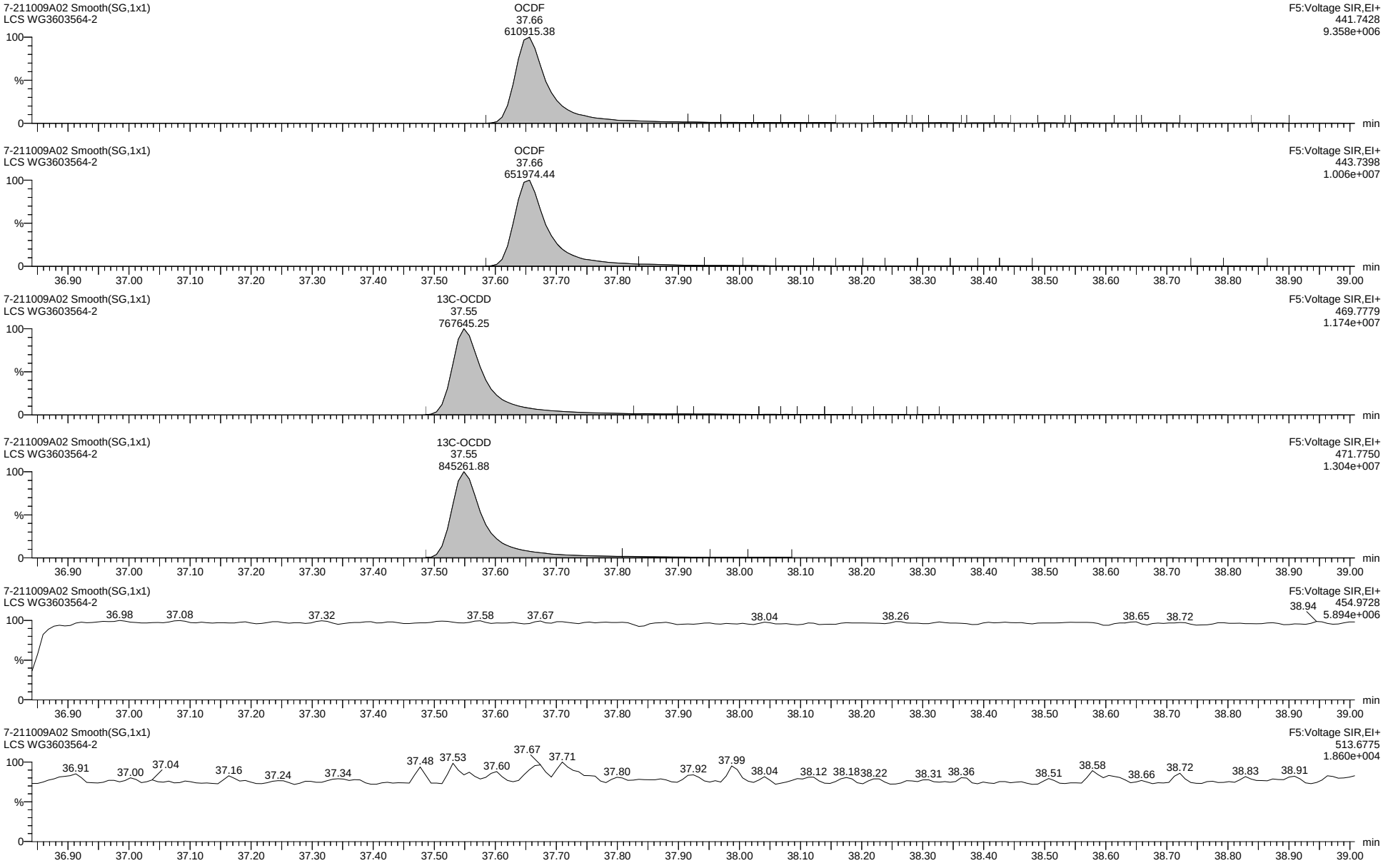

Quantify Sample Template Report **MassLynx MassLynx V4.1 SCN 901**

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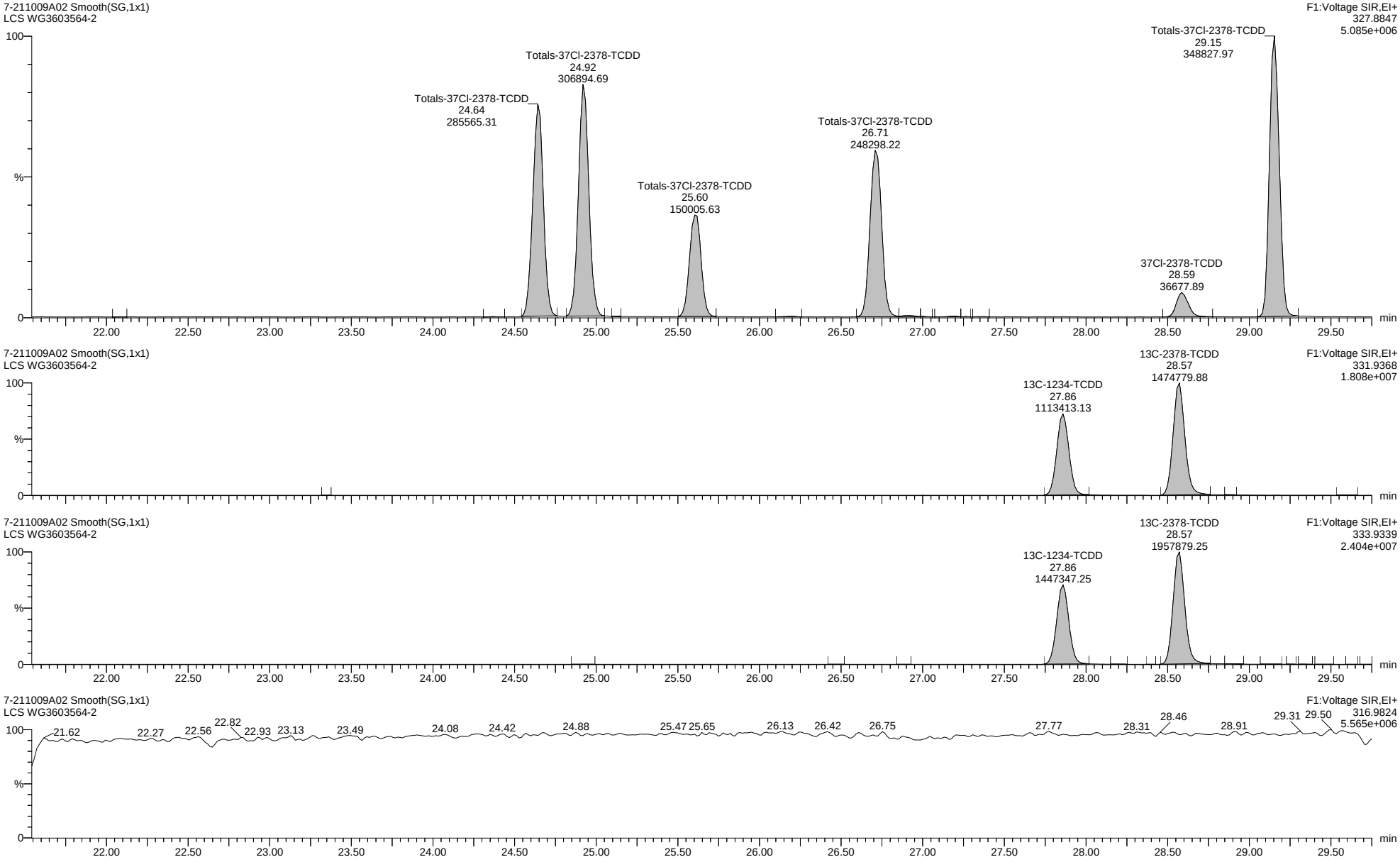

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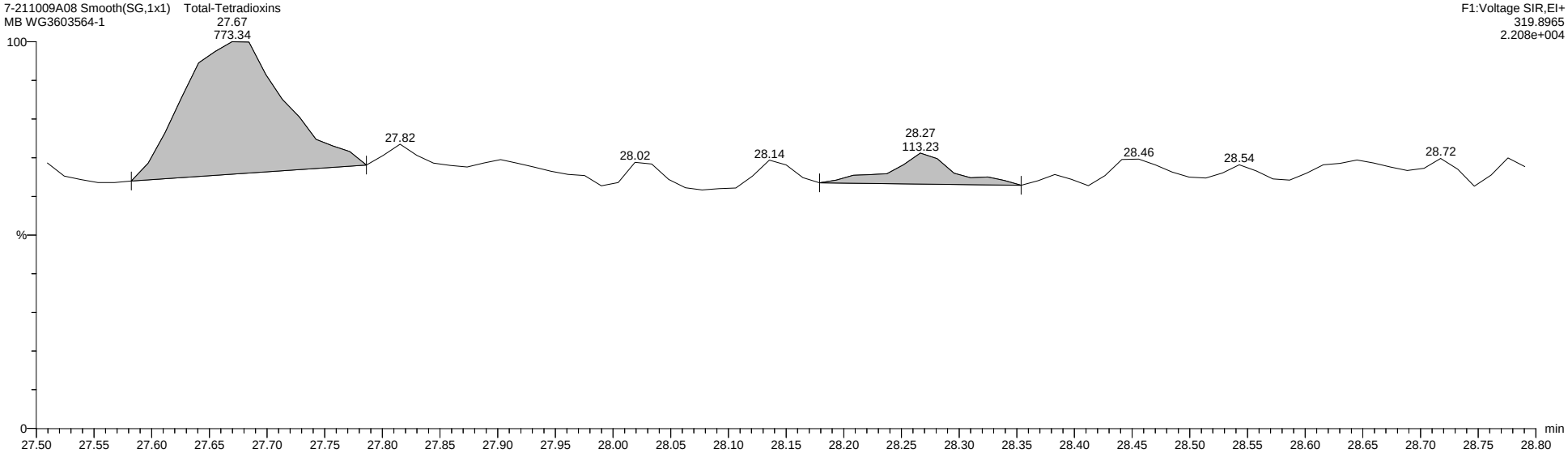

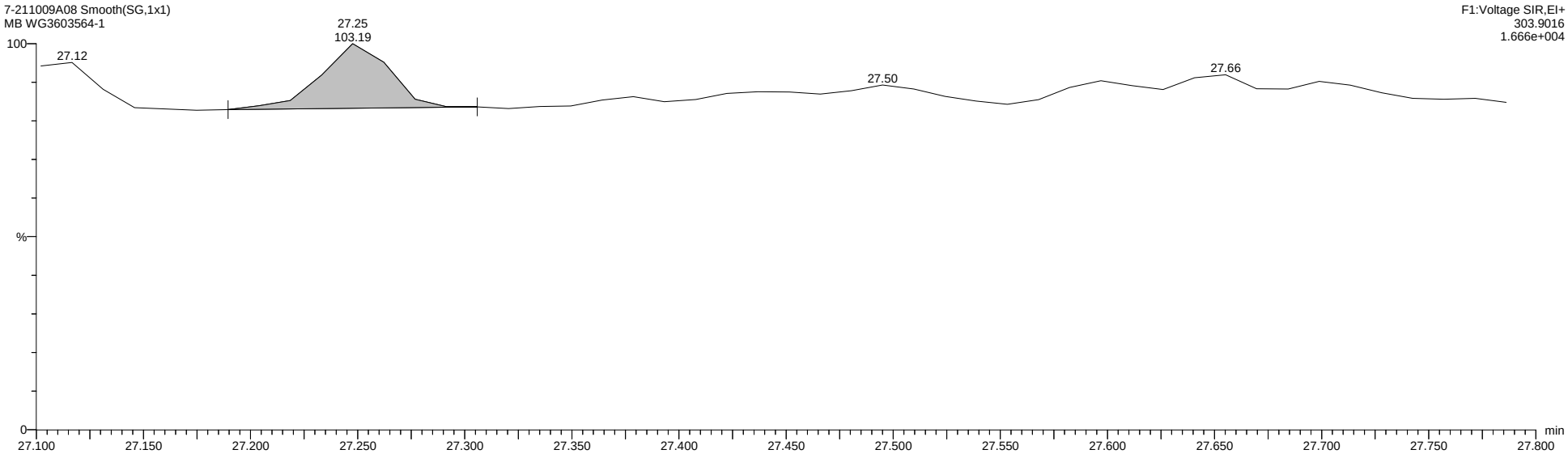

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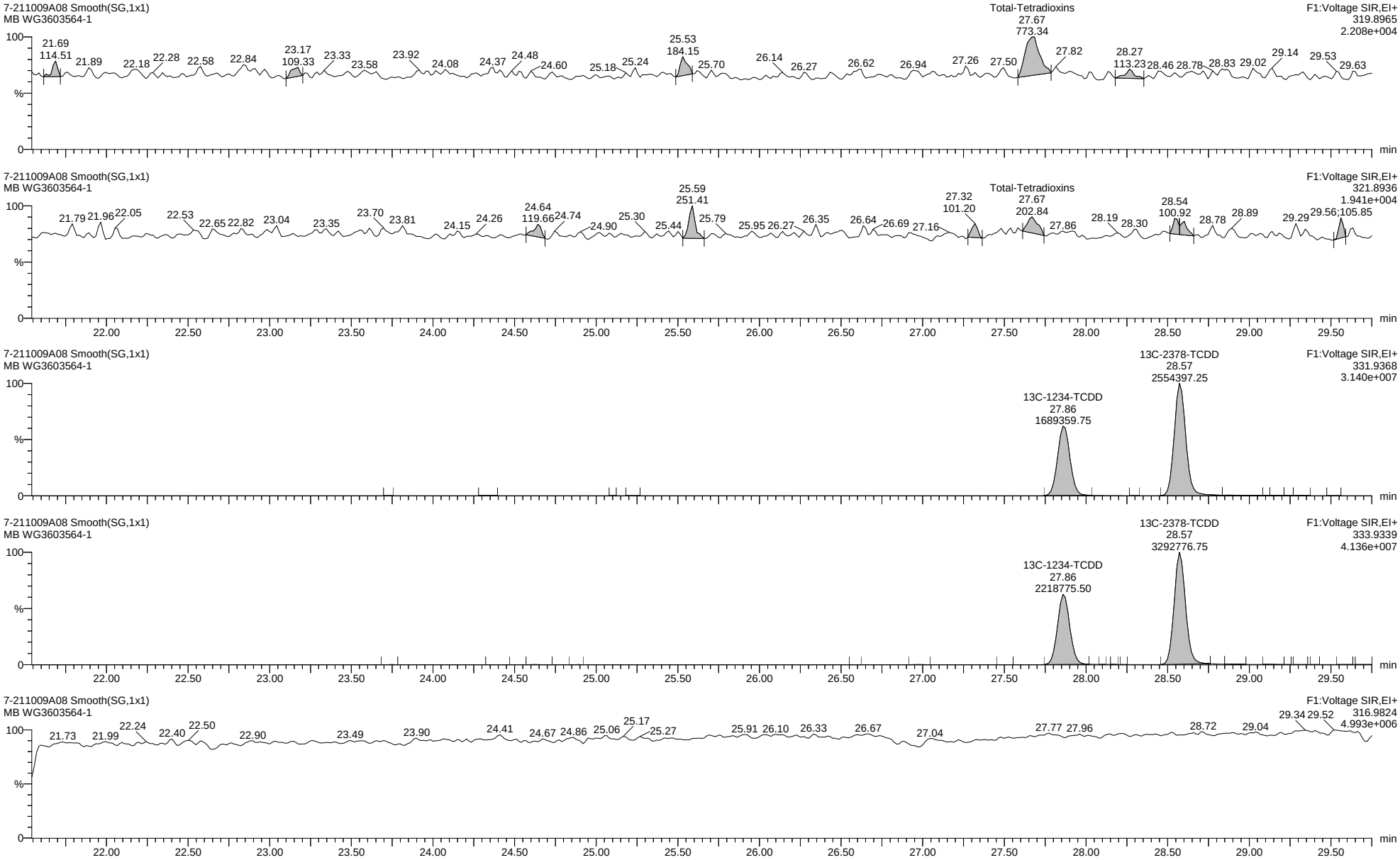

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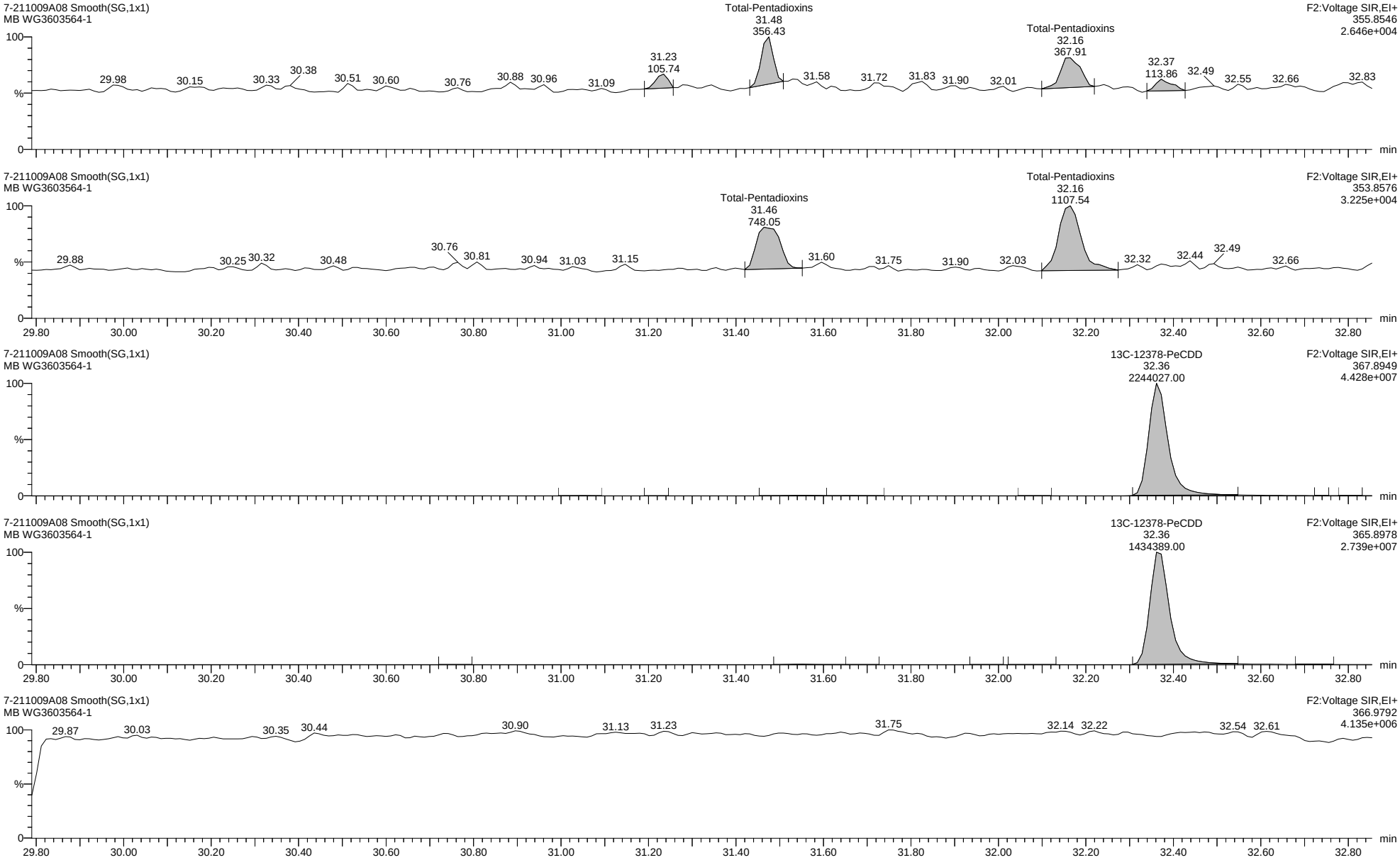

Quantify Sample Template Report **MassLynx MassLynx V4.1 SCN 901**

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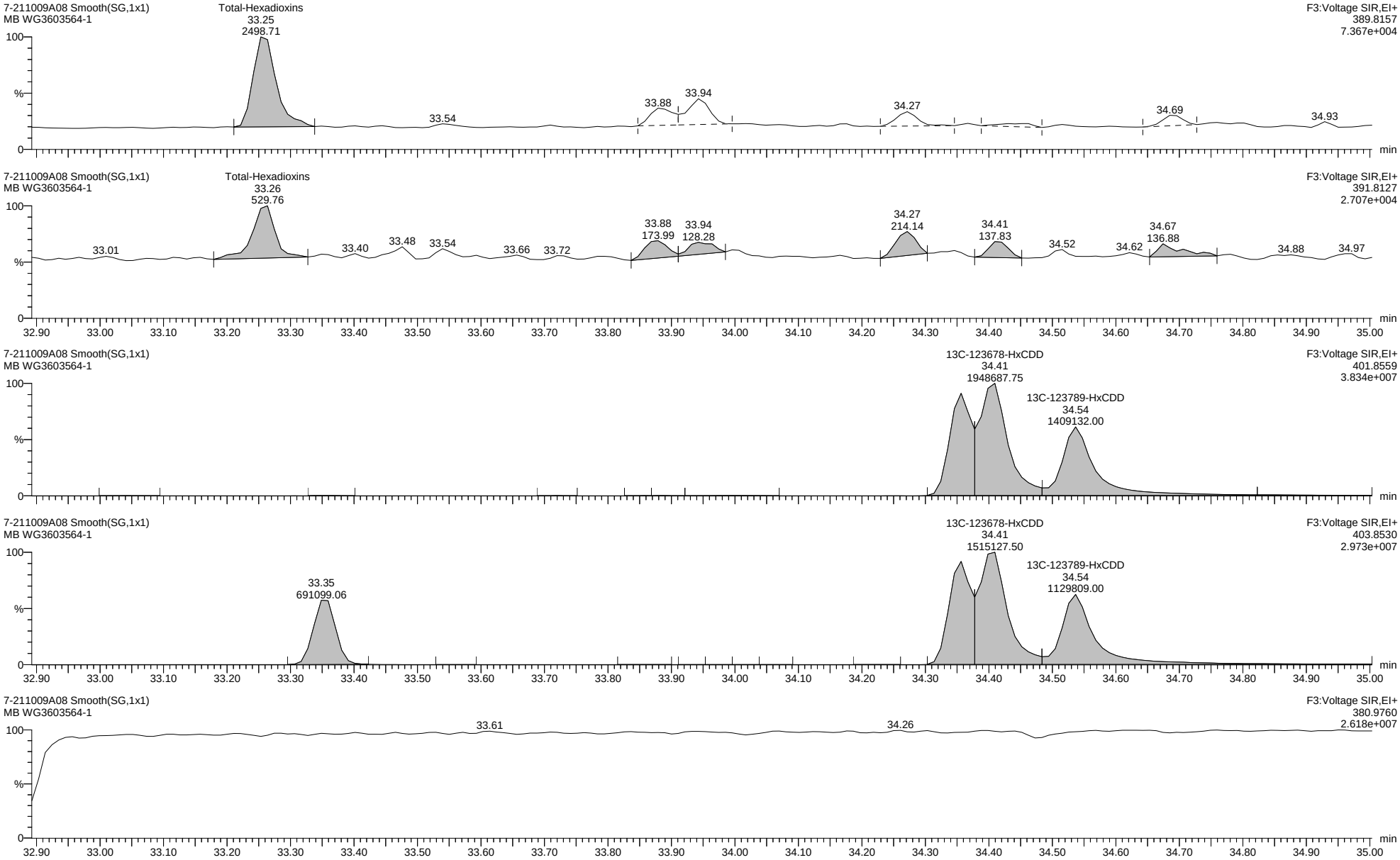

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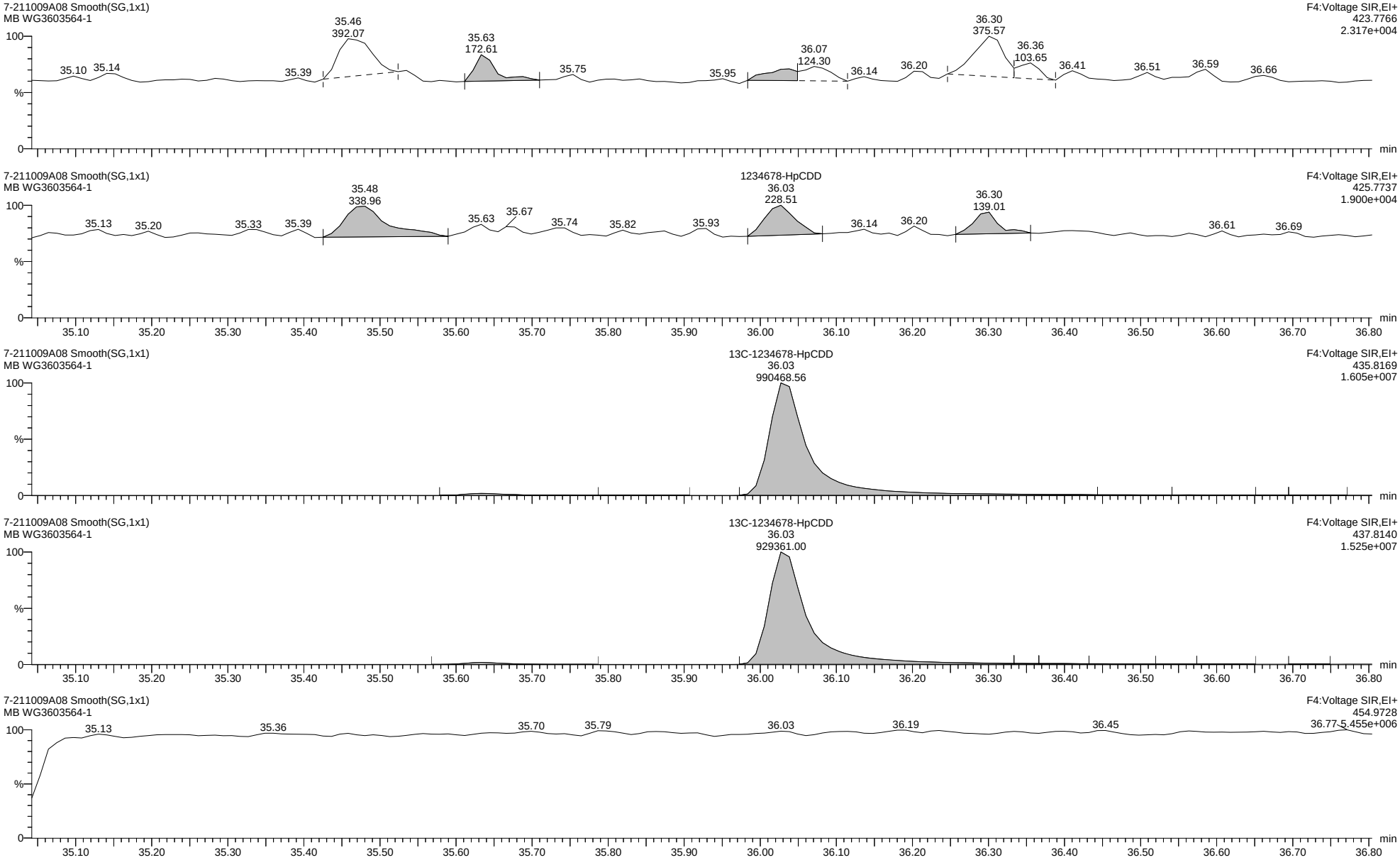

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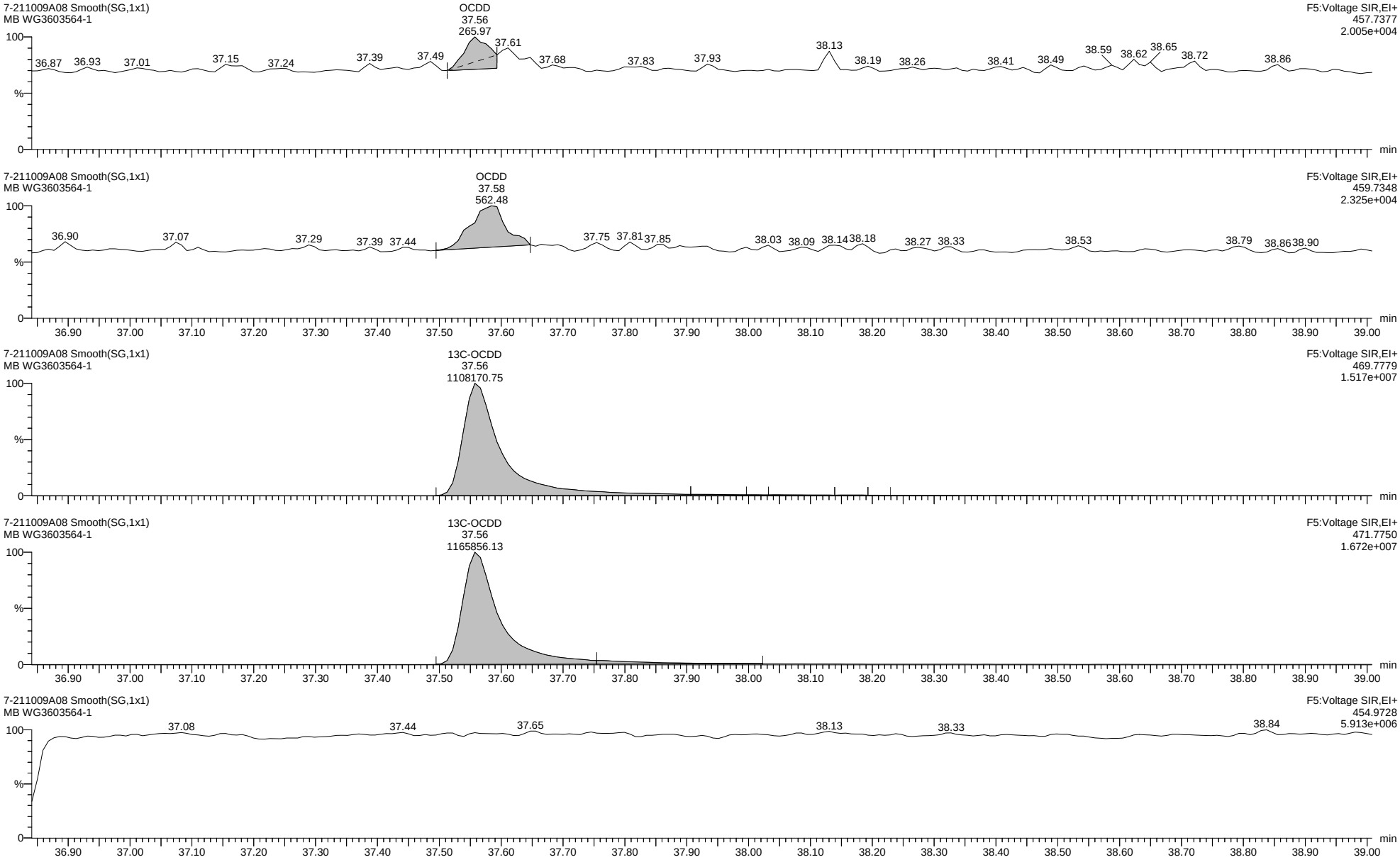

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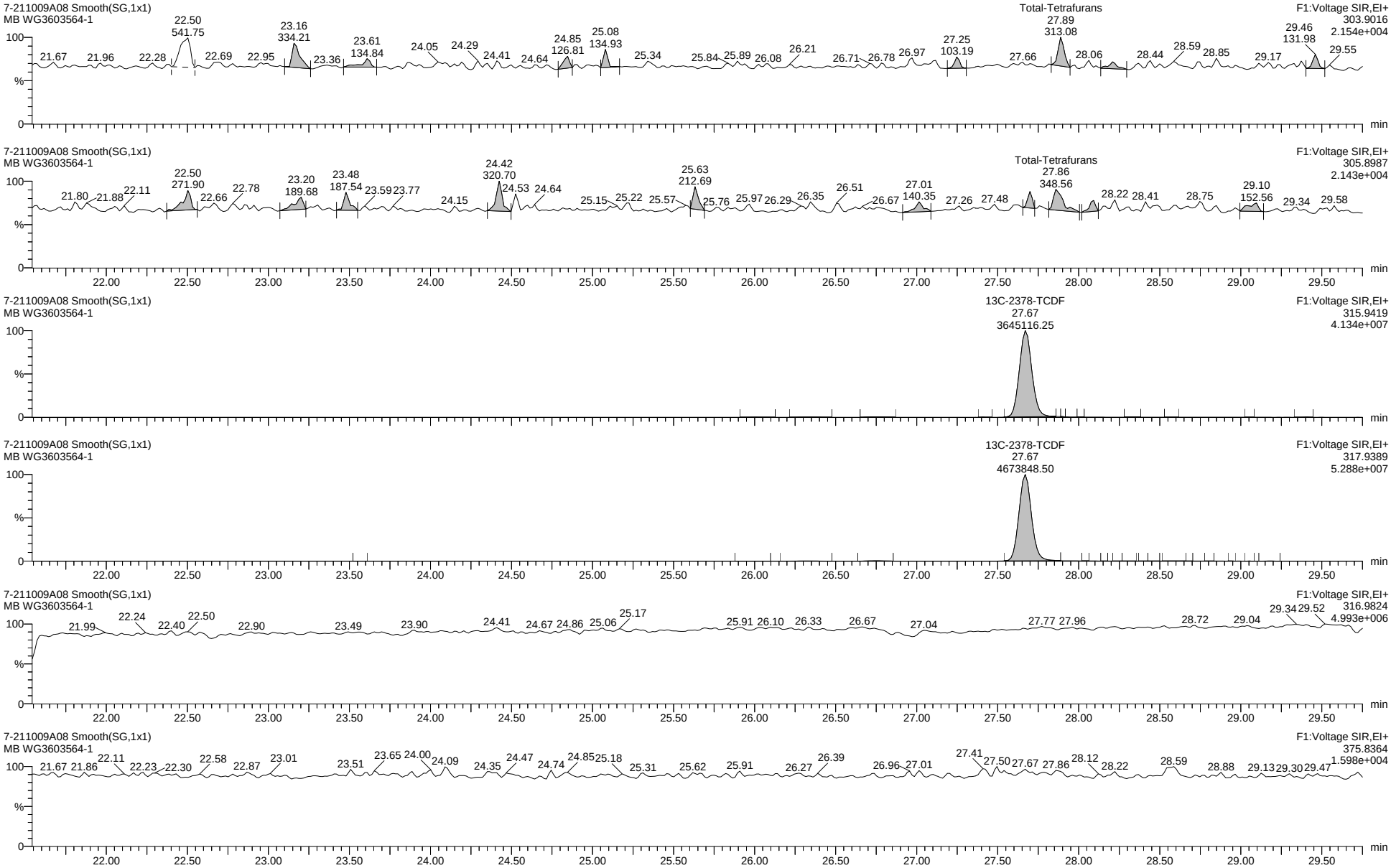

Quantify Sample Template Report **MassLynx MassLynx V4.1 SCN 901**

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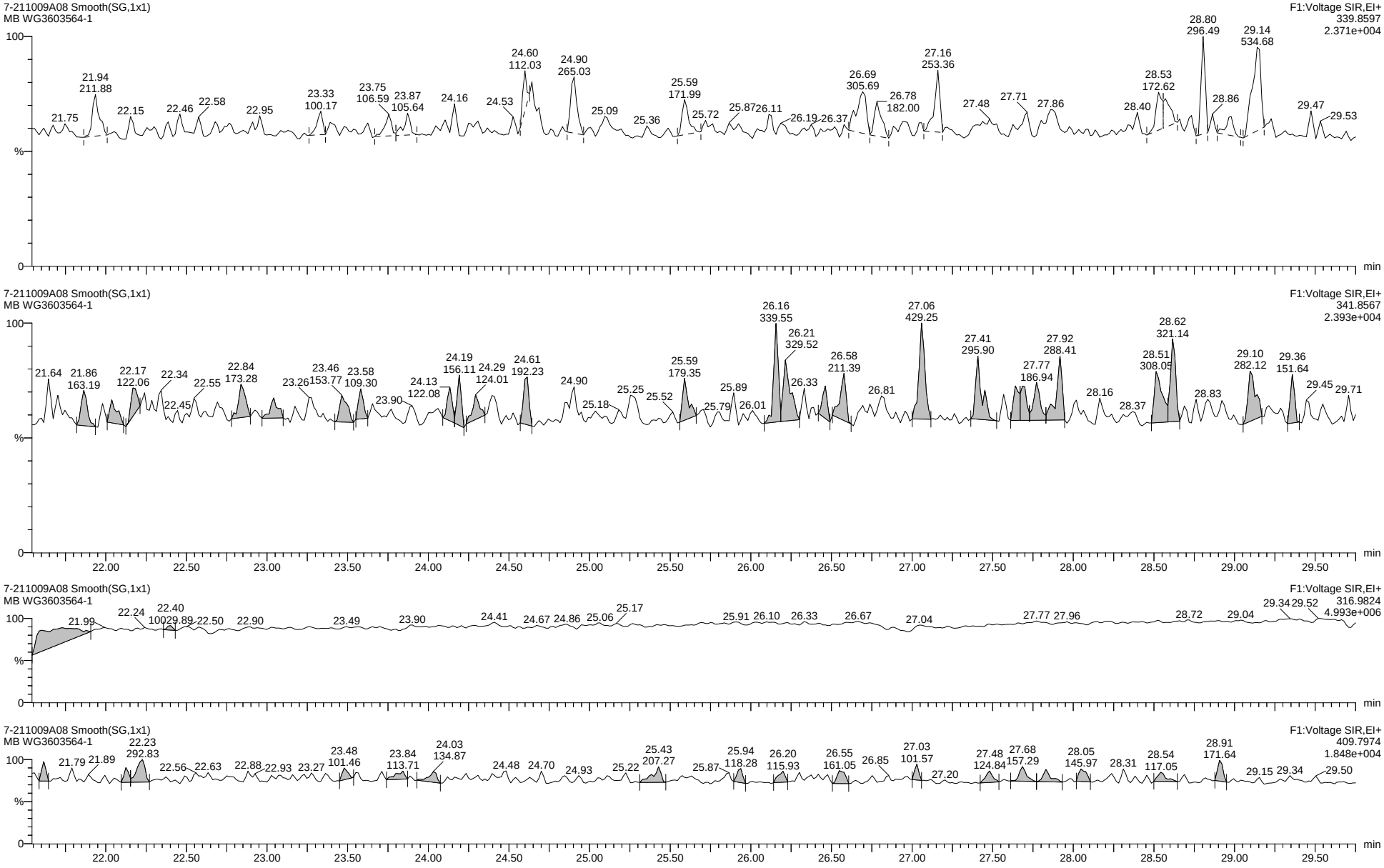

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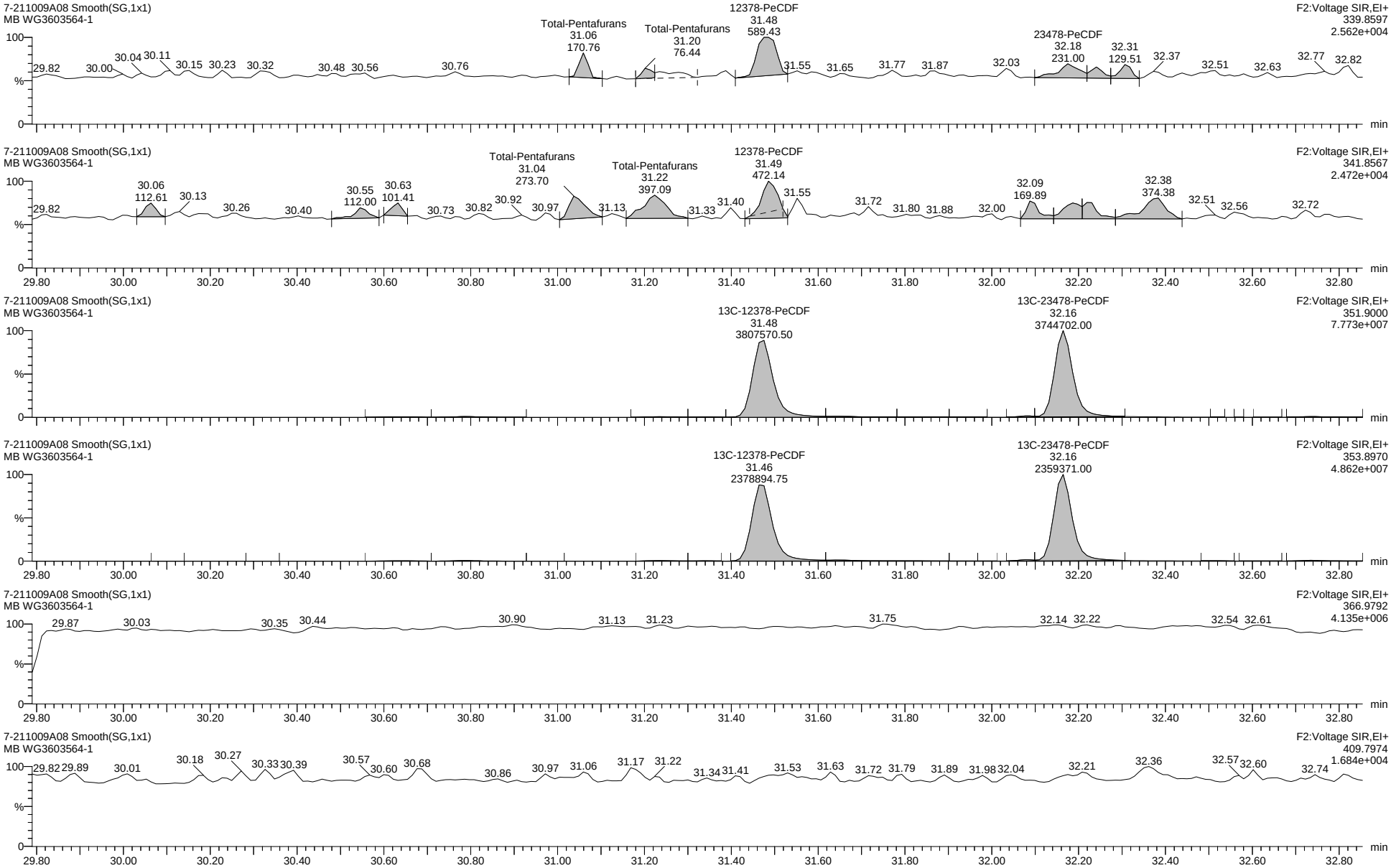

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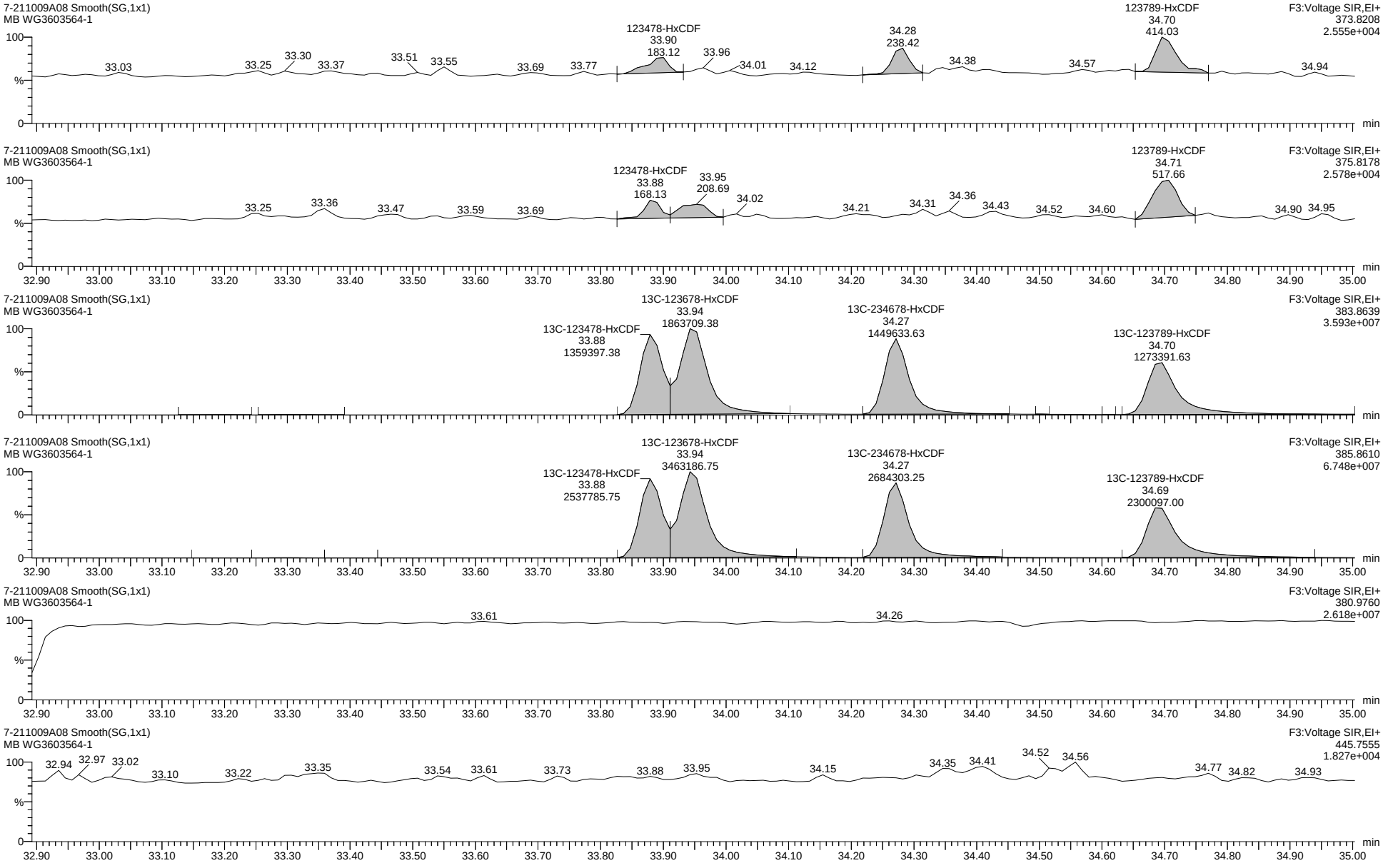

Quantify Sample Template Report **MassLynx MassLynx V4.1 SCN 901**

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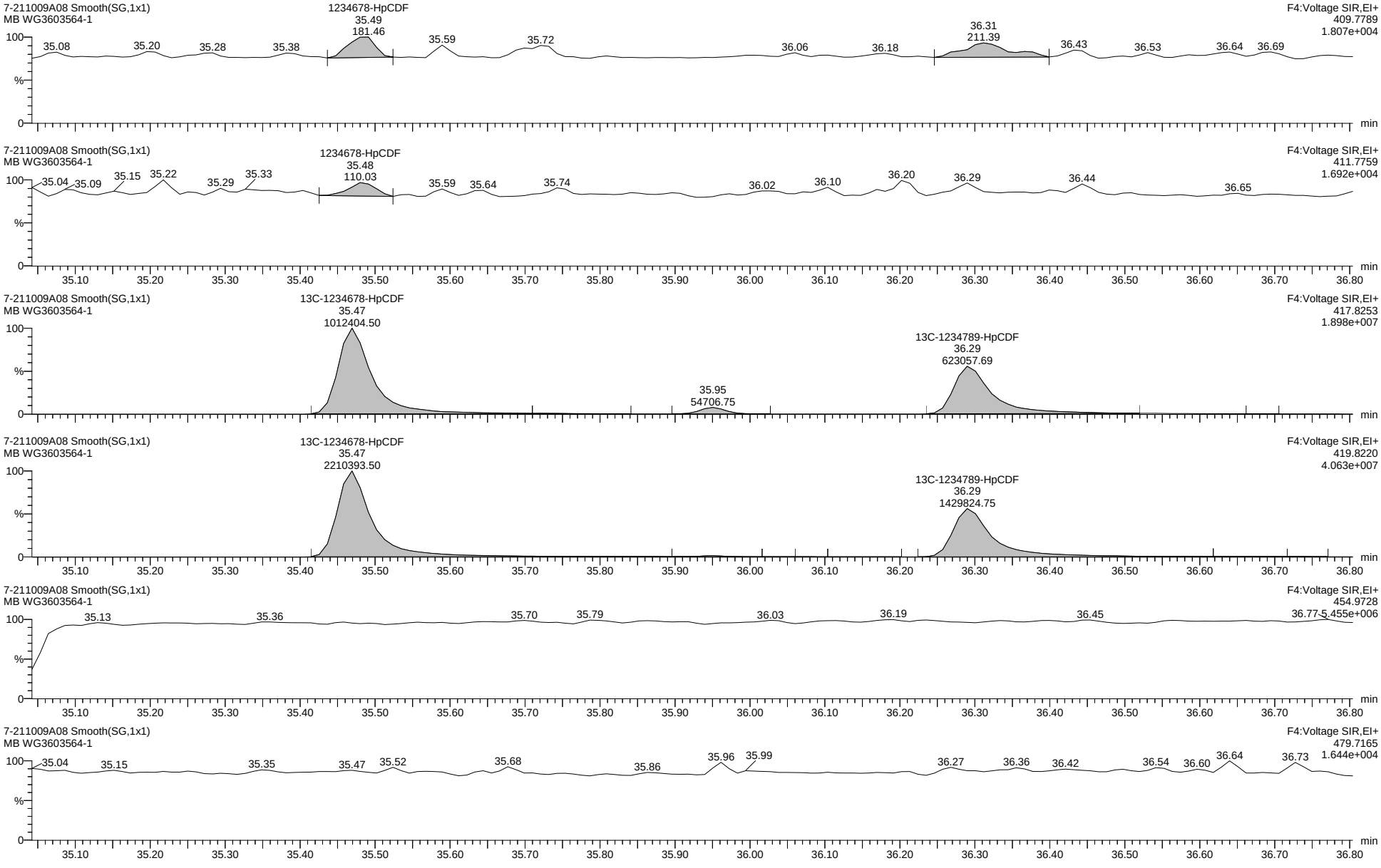

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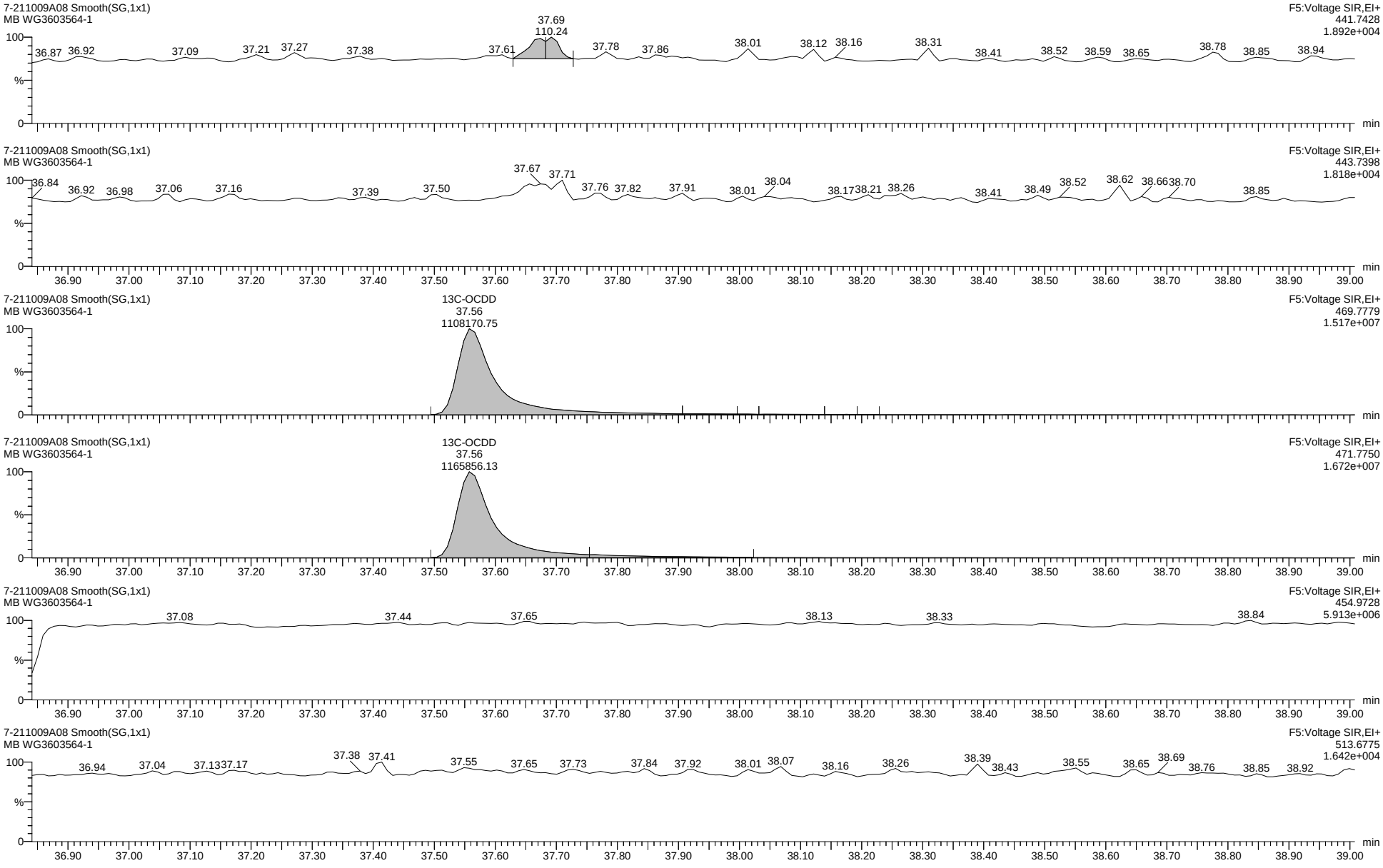

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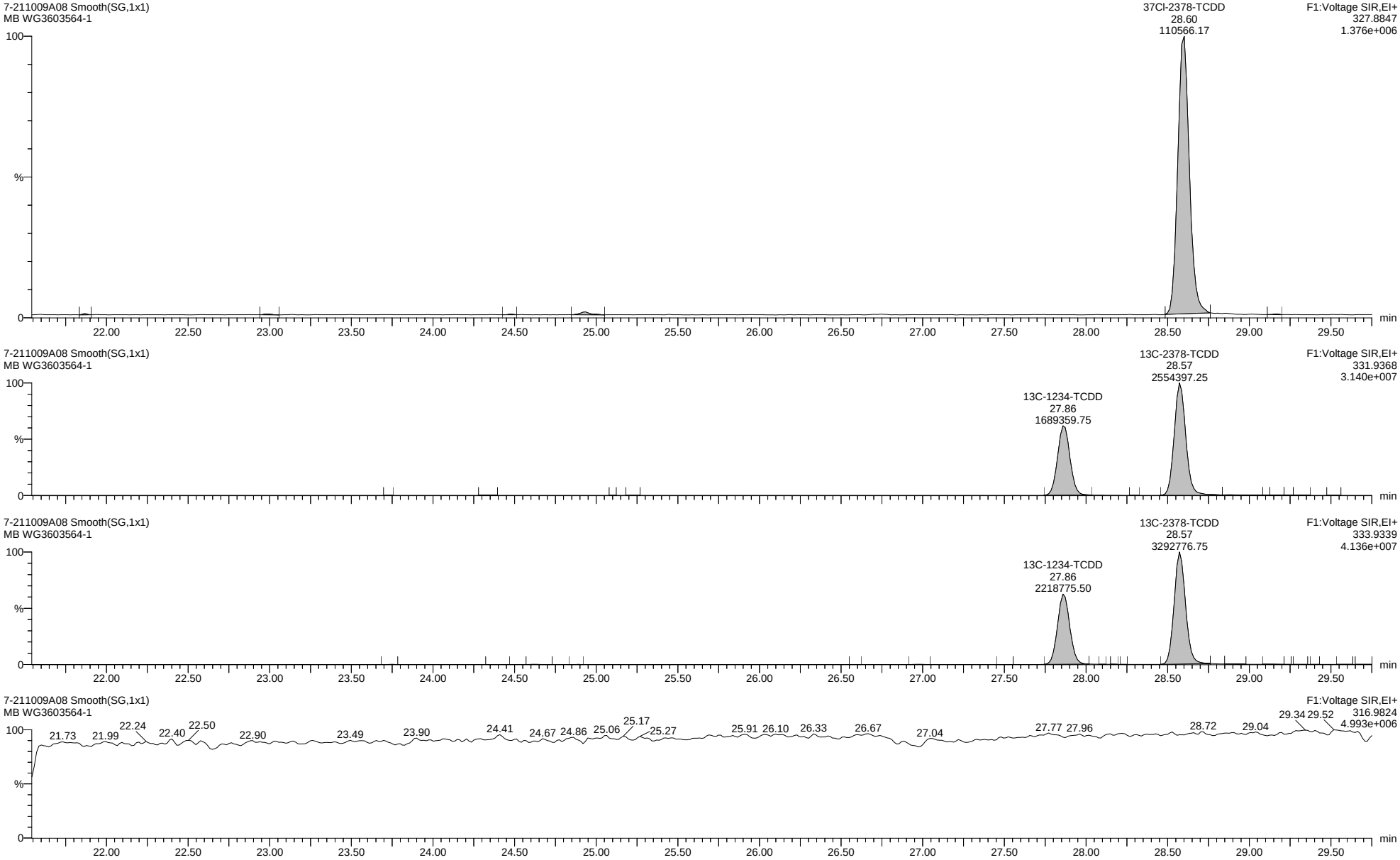

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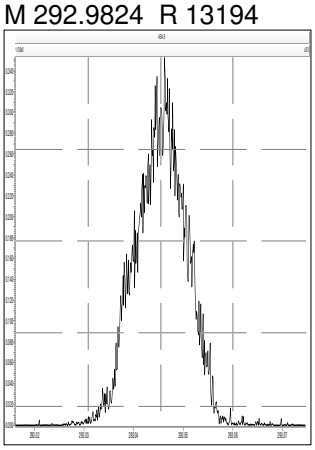

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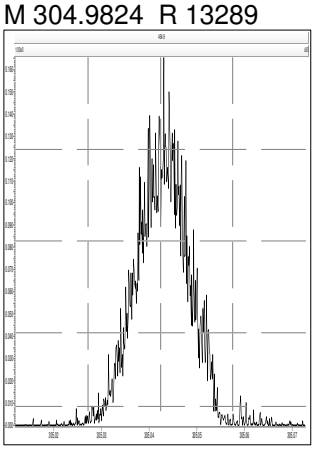

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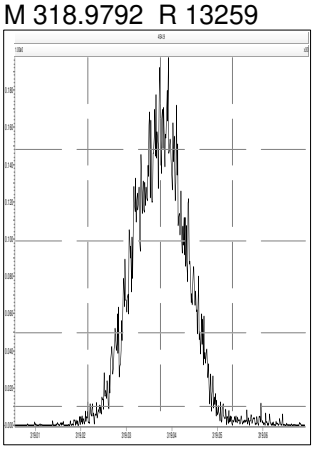

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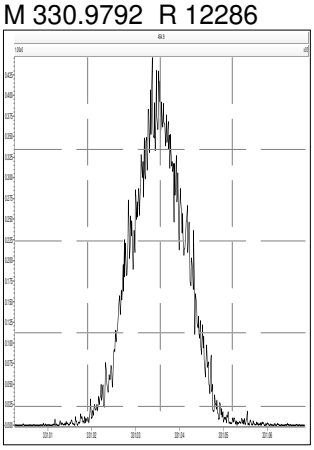

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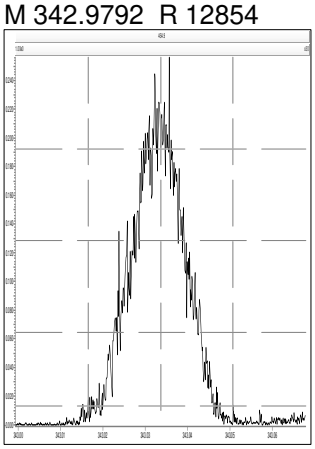

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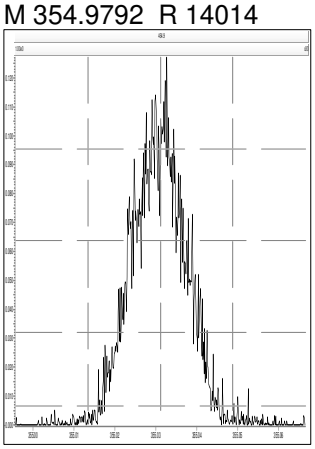

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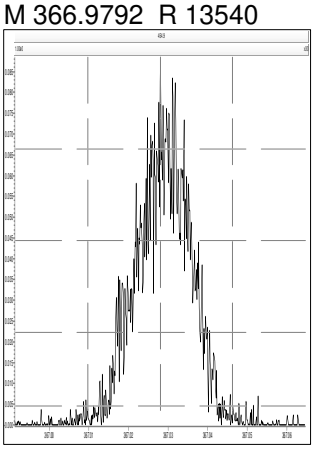

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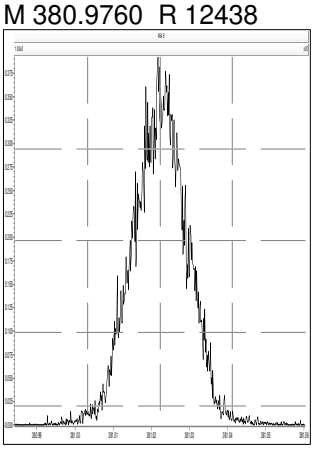

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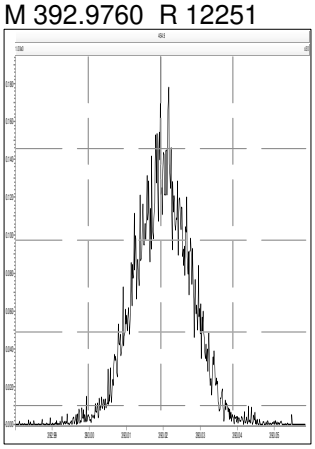

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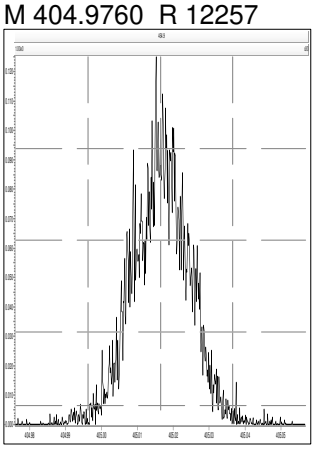

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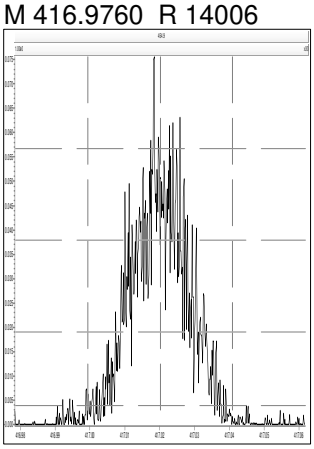

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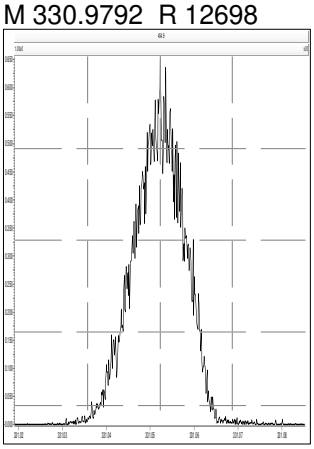

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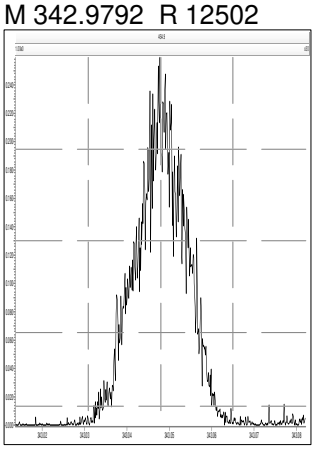

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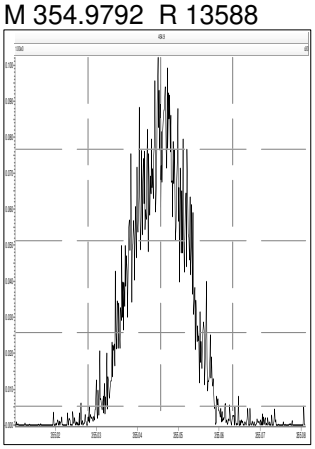

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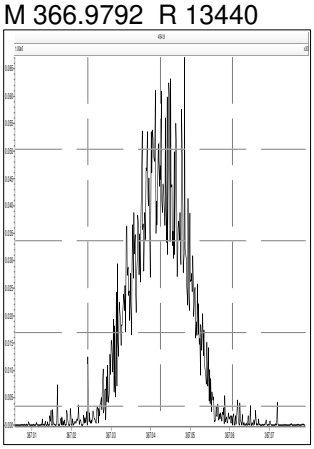

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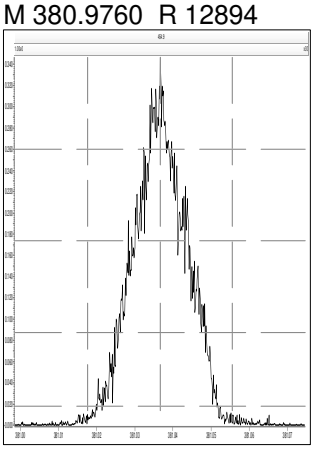

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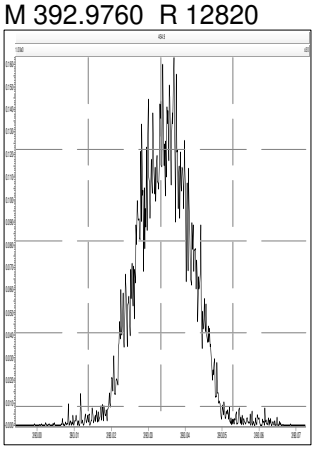

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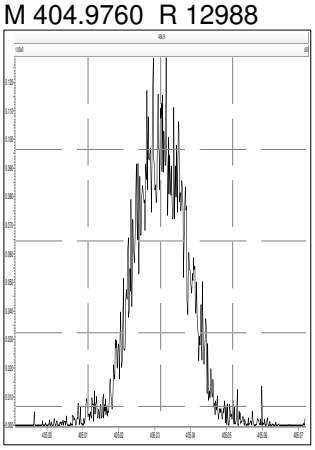
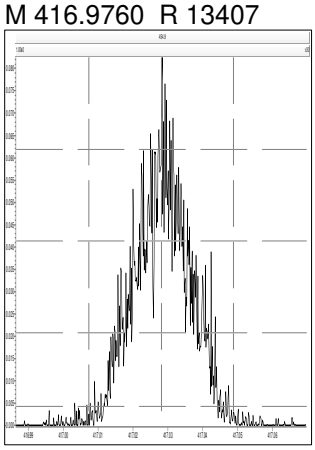
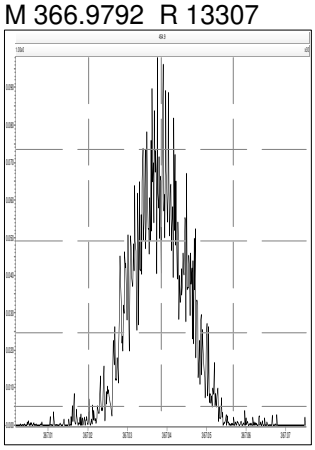


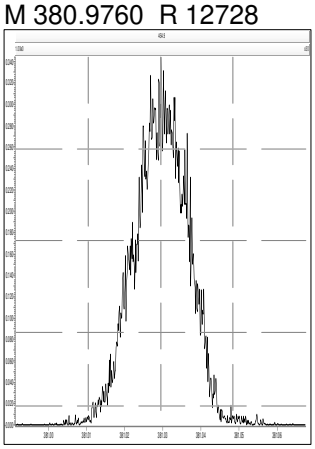
M 416.9760 R 13407



M 366.9792 R 13307



M 380.9760 R 12728



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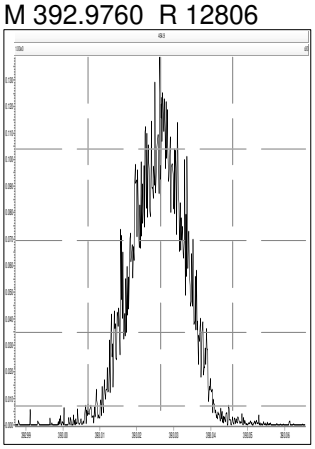

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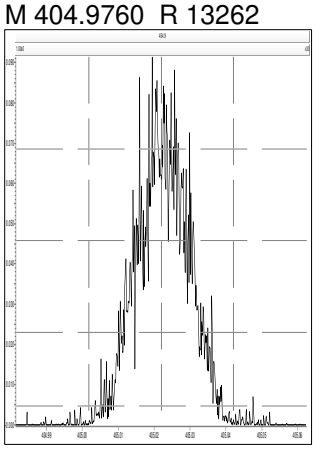

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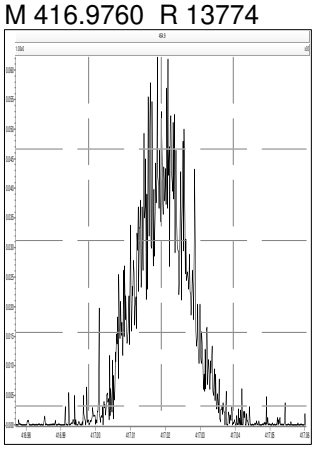
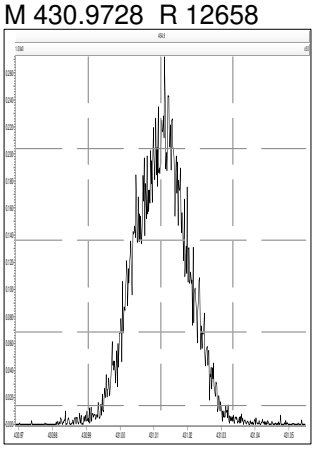
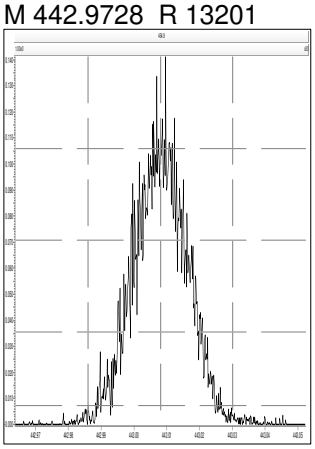


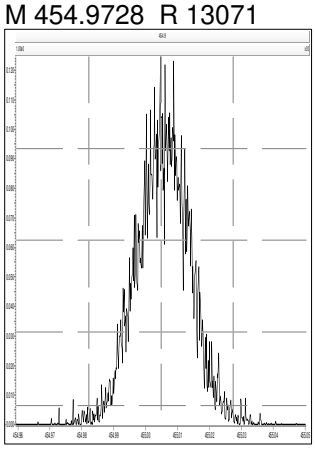
M 430.9728 R 12658



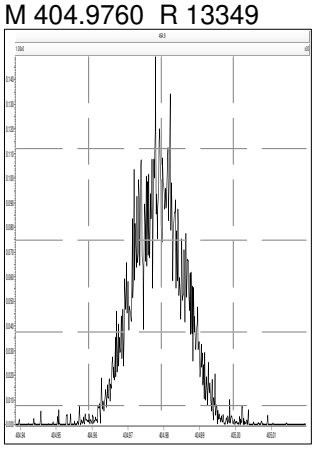
M 442.9728 R 13201



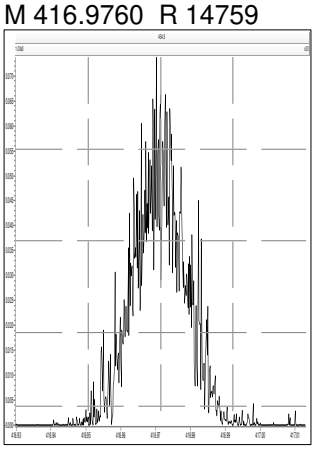
M 454.9728 R 13071



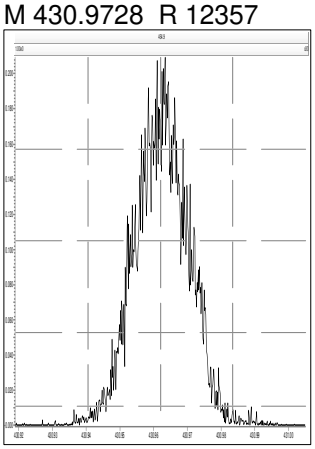
M 404.9760 R 13349



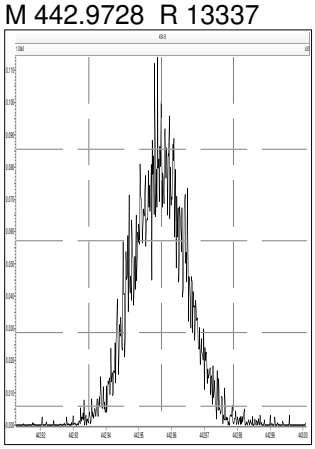
M 416.9760 R 14759



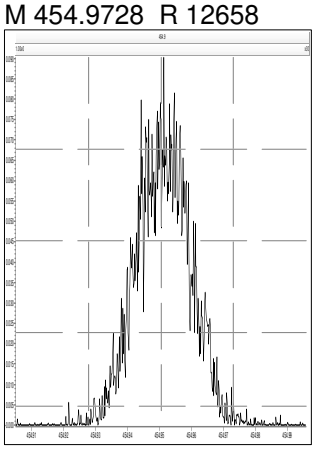
M 430.9728 R 12357



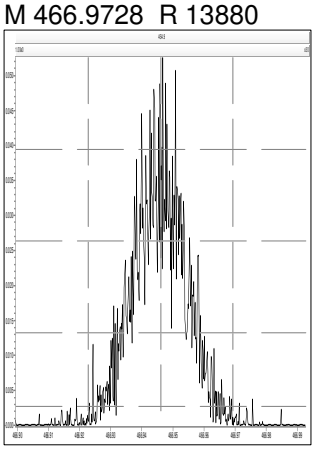
M 442.9728 R 13337



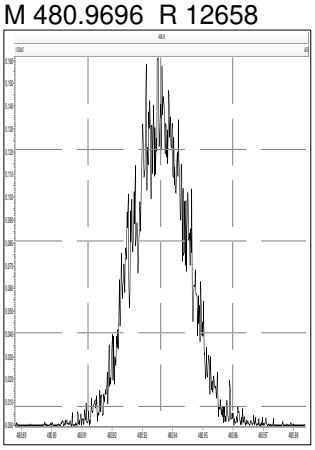
M 454.9728 R 12658



M 466.9728 R 13880



M 480.9696 R 12658



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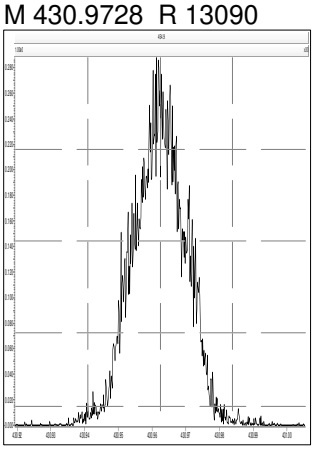

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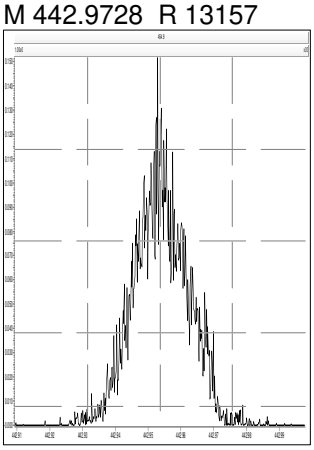
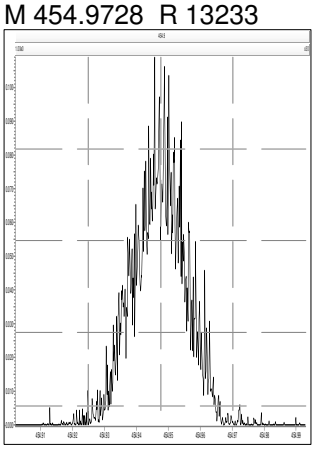
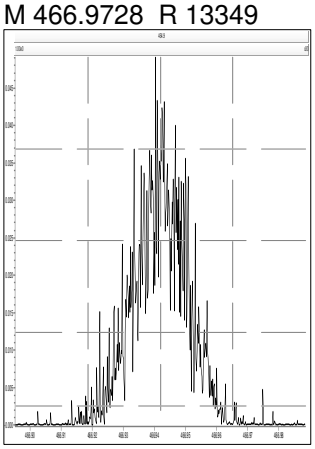


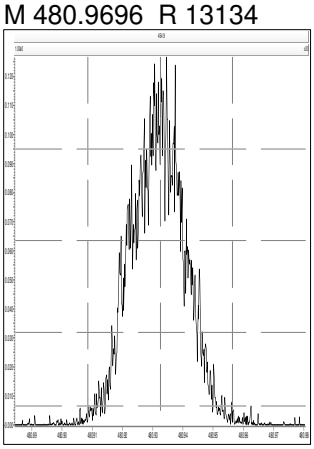
M 454.9728 R 13233



M 466.9728 R 13349



M 480.9696 R 13134



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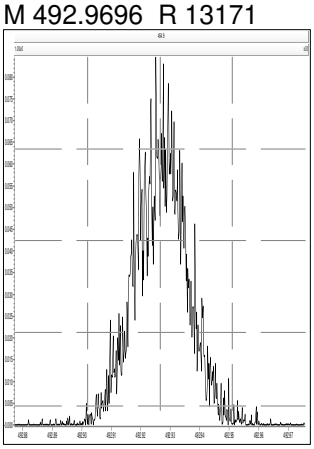
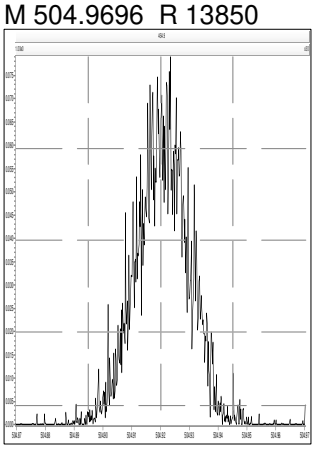
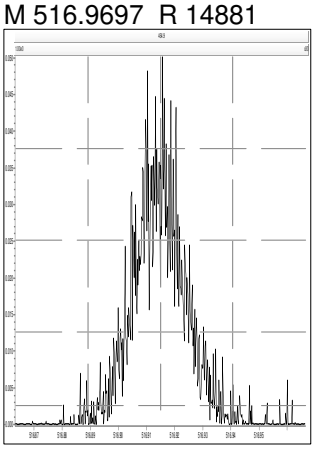


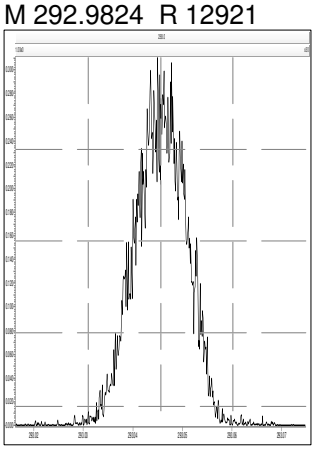
M 504.9696 R 13850



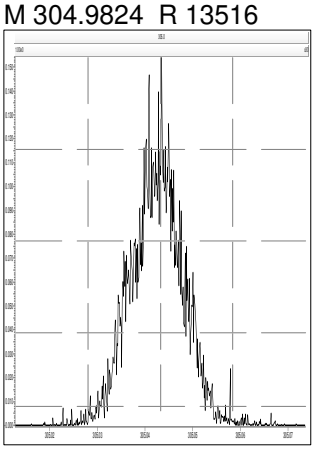
M 516.9697 R 14881



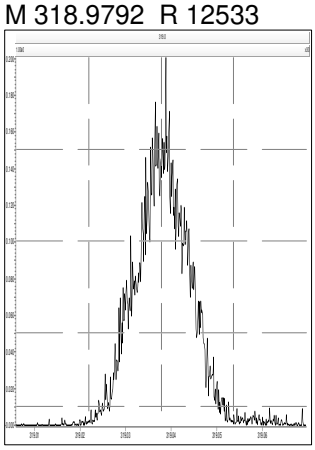
M 292.9824 R 12921



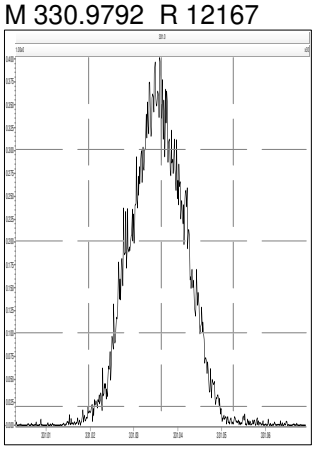
M 304.9824 R 13516



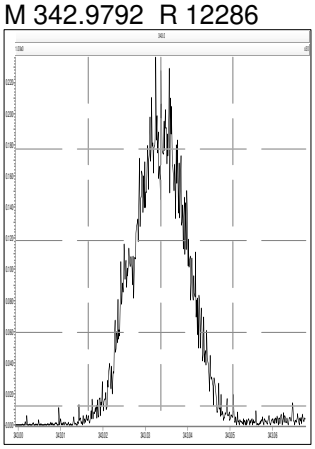
M 318.9792 R 12533



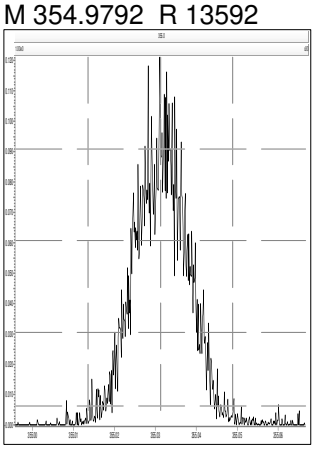
M 330.9792 R 12167



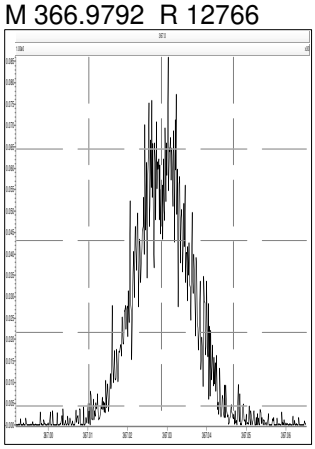
M 342.9792 R 12286



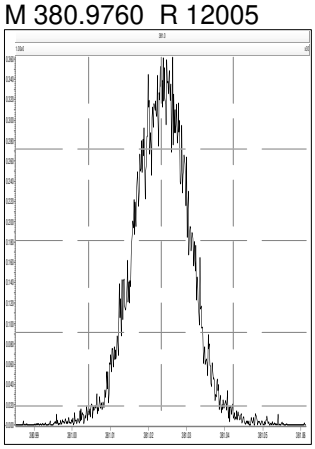
M 354.9792 R 13592



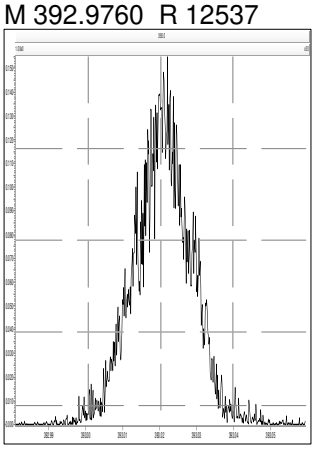
M 366.9792 R 12766



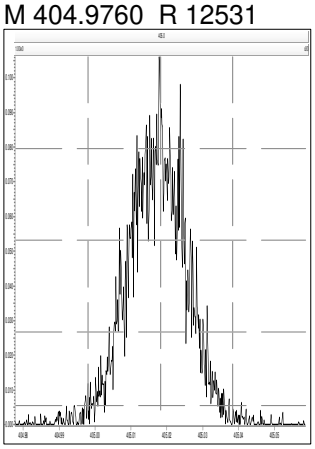
M 380.9760 R 12005



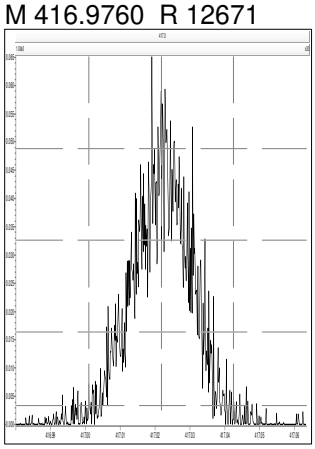
M 392.9760 R 12537



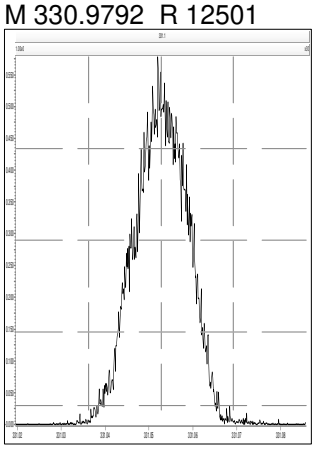
M 404.9760 R 12531



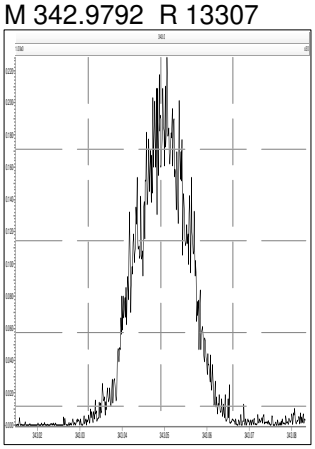
M 416.9760 R 12671



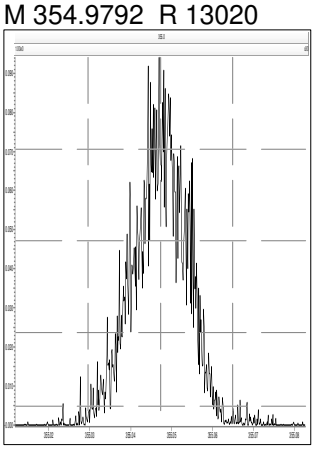
M 330.9792 R 12501



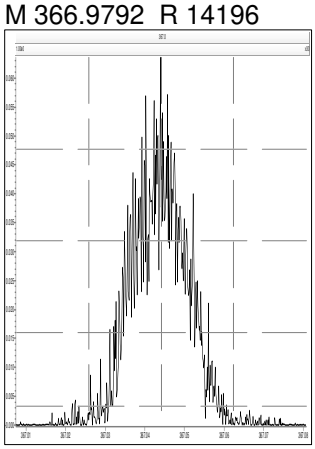
M 342.9792 R 13307



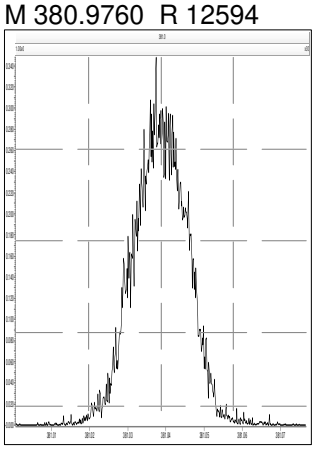
M 354.9792 R 13020



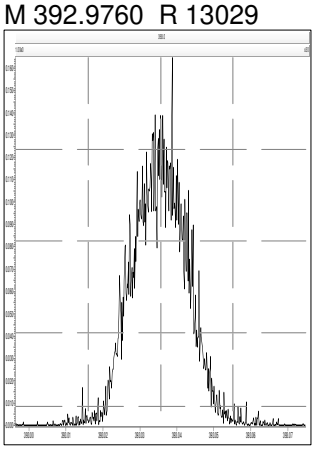
M 366.9792 R 14196



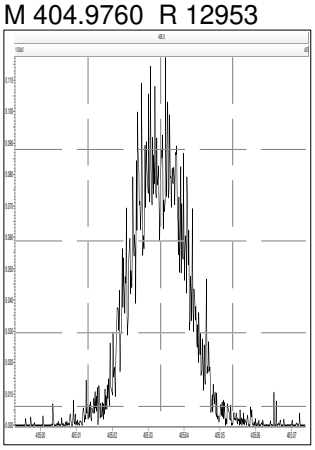
M 380.9760 R 12594



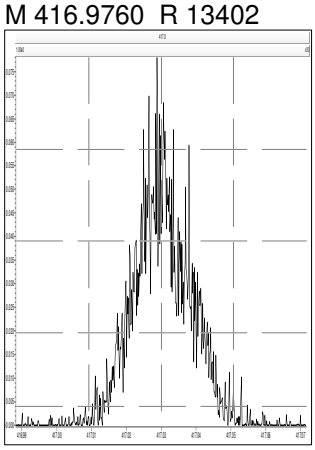
M 392.9760 R 13029



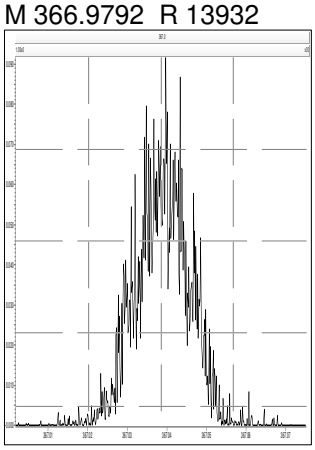
M 404.9760 R 12953



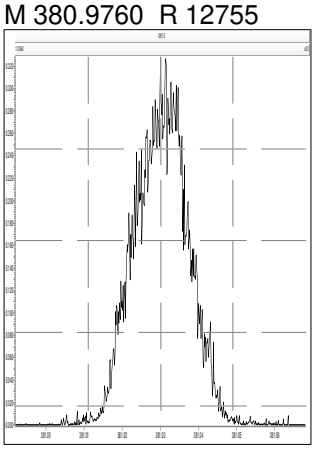
M 416.9760 R 13402



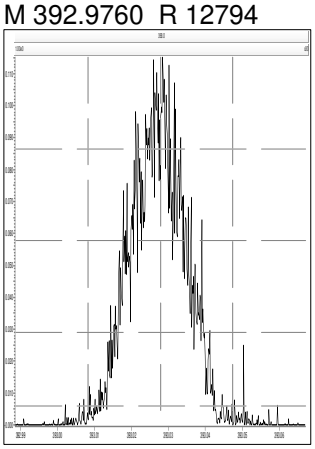
M 366.9792 R 13932



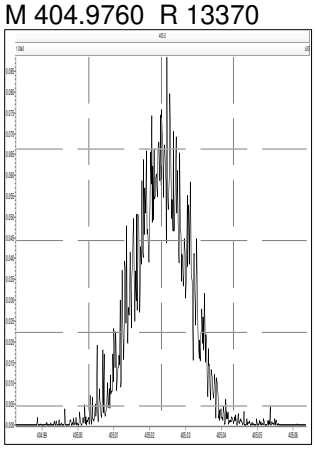
M 380.9760 R 12755



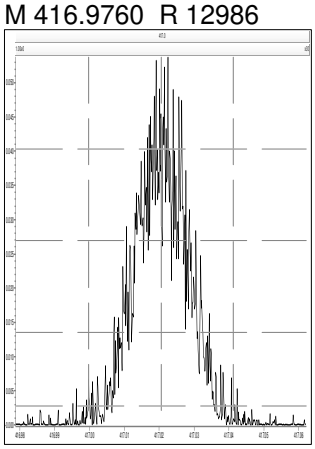
M 392.9760 R 12794



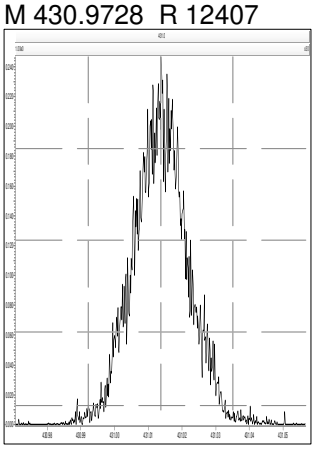
M 404.9760 R 13370



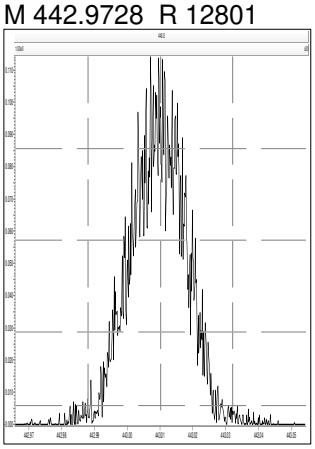
M 416.9760 R 12986



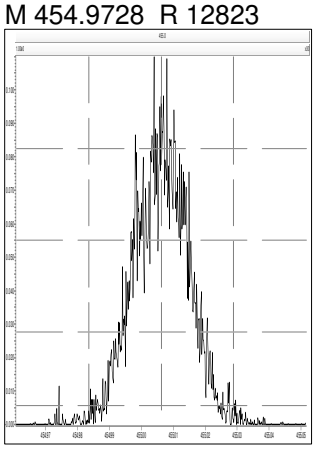
M 430.9728 R 12407



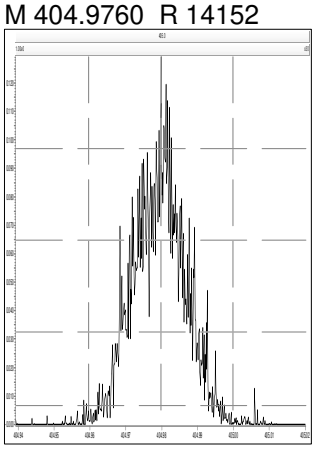
M 442.9728 R 12801



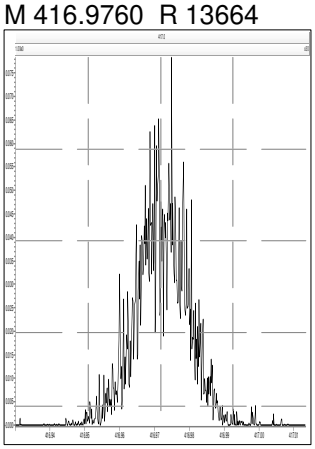
M 454.9728 R 12823



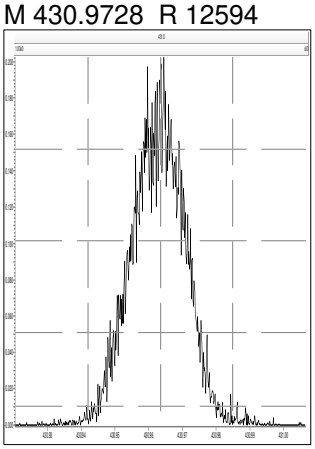
M 404.9760 R 14152



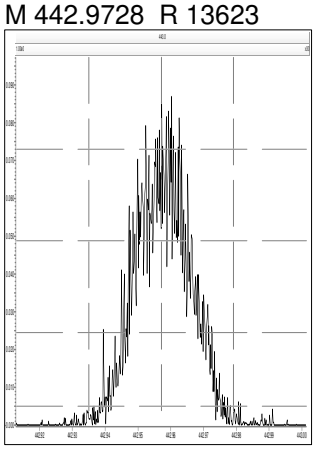
M 416.9760 R 13664



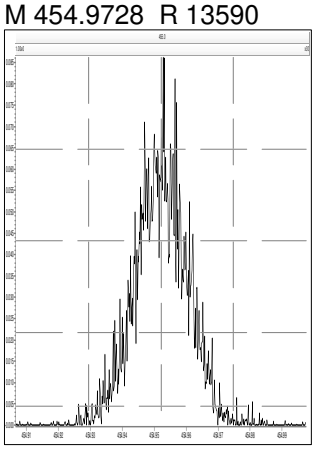
M 430.9728 R 12594



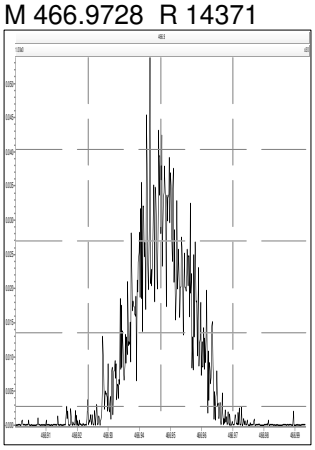
M 442.9728 R 13623



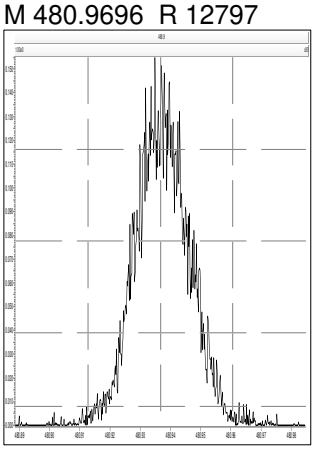
M 454.9728 R 13590



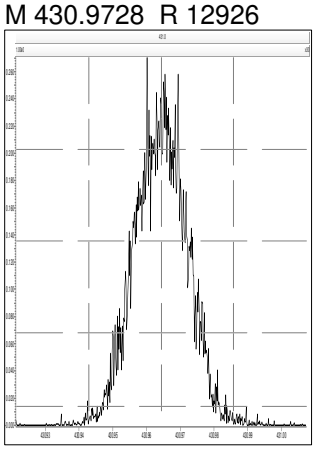
M 466.9728 R 14371



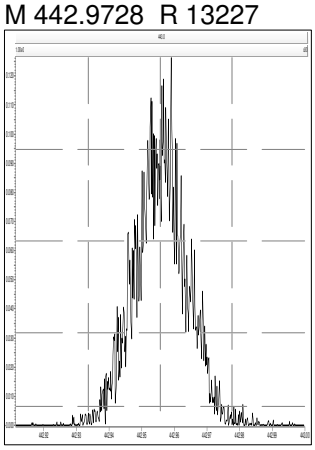
M 480.9696 R 12797



M 430.9728 R 12926



M 442.9728 R 13227



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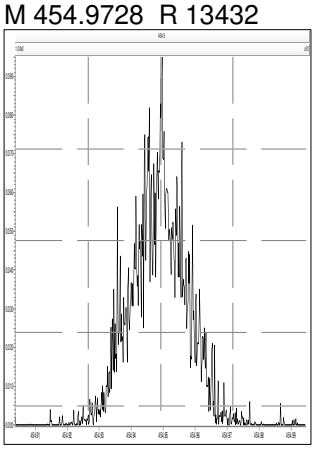
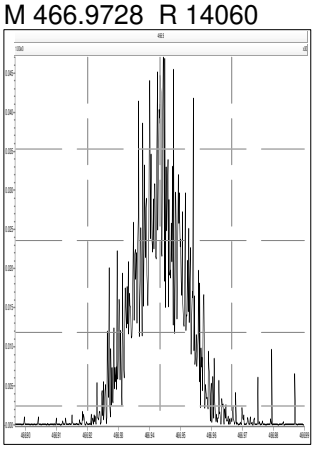
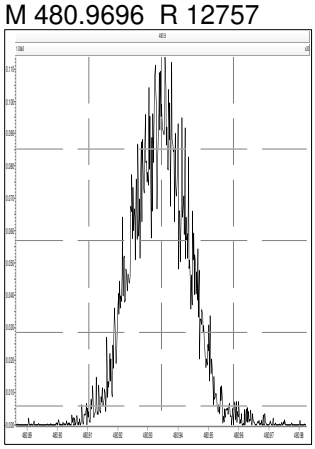


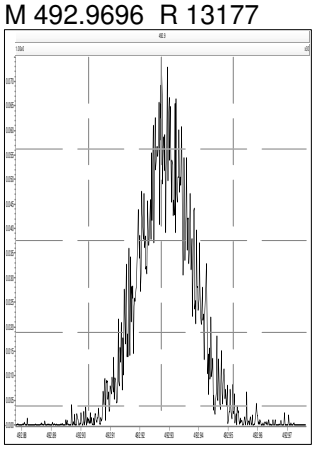
M 466.9728 R 14060



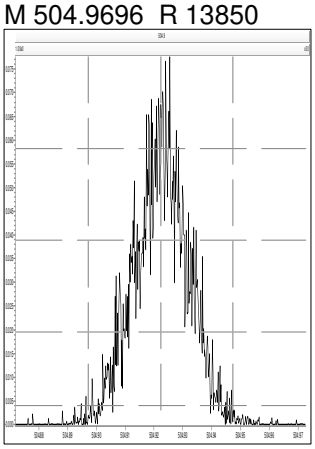
M 480.9696 R 12757



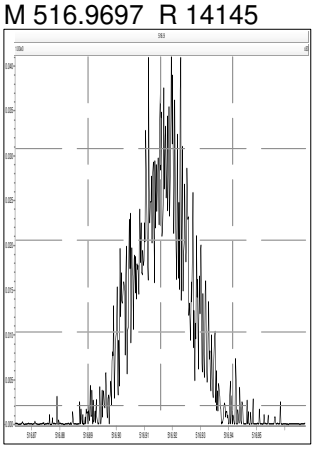
M 492.9696 R 13177



M 504.9696 R 13850



M 516.9697 R 14145



√= Done

Sample List Report **MassLynx 4.1 SCN815 SCN795**

Sample List: C:\MassLynx\Default.pro\Sampledb\7-211009B-RUN.SPL
Last Modified: Saturday, October 09, 2021 12:12:30 Eastern Daylight Time
Printed: Saturday, October 09, 2021 12:13:07 Eastern Daylight Time

Page Position (1, 1)

	File Name	Sample ID	File Text	MS File	Inlet File	Vial
1	7-211009B01	H7-21-CCV-602 1	1613B-CS3+PERF-012	Dioxin_1613B	Dioxin_1613B	Tray1:1
2	7-211009B02	TOLUENE	IB	Dioxin_1613B	Dioxin_1613B	Tray1:15
3	7-211009B03	NONANE	IB	Dioxin_1613B	Dioxin_1613B	Tray1:16
4	7-211009B04	L2625428-1	1613	Dioxin_1613B	Dioxin_1613B	Tray1:21
5	7-211009B05	L2625382-11	1613	Dioxin_1613B	Dioxin_1613B	Tray1:22
6	7-211009B06	L2625400-13	1613	Dioxin_1613B	Dioxin_1613B	Tray1:23
7	7-211009B07	L2625409-18	1613	Dioxin_1613B	Dioxin_1613B	Tray1:24
8	7-211009B08	L2625419-5	1613	Dioxin_1613B	Dioxin_1613B	Tray1:25
9	7-211009B09	L2625533-17	1613	Dioxin_1613B	Dioxin_1613B	Tray1:26
10	7-211009B10	L2643545-1	1613	Dioxin_1613B	Dioxin_1613B	Tray1:27
11	7-211009B11	H7-21-CCV-602 2	1613B-CS3+PERF-012	Dioxin_1613B	Dioxin_1613B	Tray1:1
12	7-211009B12	TOLUENE	IB	Dioxin_1613B	Dioxin_1613B	Tray1:15
13	7-211009B13	NONANE	IB	Dioxin_1613B	Dioxin_1613B	Tray1:16
14	7-211009B14	L2621671-2 Δ	1613	Dioxin_1613B	Dioxin_1613B	Tray1:28
15	7-211009B15	L2636775-15	1613	Dioxin_1613B	Dioxin_1613B	Tray1:29
16	7-211009B16	L2636775-16	1613	Dioxin_1613B	Dioxin_1613B	Tray1:30
17	7-211009B17	L2636775-17	1613	Dioxin_1613B	Dioxin_1613B	Tray1:31
18	7-211009B18	L2636775-18	1613	Dioxin_1613B	Dioxin_1613B	Tray1:32
19	7-211009B19	L2636775-19	1613	Dioxin_1613B	Dioxin_1613B	Tray1:33
20	7-211009B20	L2636775-20	1613	Dioxin_1613B	Dioxin_1613B	Tray1:34
21	7-211009B21	L2636775-21	1613	Dioxin_1613B	Dioxin_1613B	Tray1:35
22	7-211009B22	L2636775-22	1613	Dioxin_1613B	Dioxin_1613B	Tray1:36
23	7-211009B23	L2636775-23	1613	Dioxin_1613B	Dioxin_1613B	Tray1:37
24	7-211009B24	L2636775-24	1613	Dioxin_1613B	Dioxin_1613B	Tray1:38
25	7-211009B25	L2636775-25	1613	Dioxin_1613B	Dioxin_1613B	Tray1:39
26	7-211009B26	L2636775-26	1613	Dioxin_1613B	Dioxin_1613B	Tray1:40
27	7-211009B27	L2636775-27	1613	Dioxin_1613B	Dioxin_1613B	Tray1:41
28	7-211009B28	H7-21-CCV-602 3	1613B-CS3+PERF-012	Dioxin_1613B	Dioxin_1613B	Tray1:1
29	---	---	---	---	---	---
30	---	---	---	---	---	---
31	---	---	Operator: KB	--- Set to MW1PL		---
32	---	---	Detector: 380V	---		---
33	---	---	Column : DB5MSUS1331822H	--- 12-Oct-2021		---
34	---	---	---	---		---

VPV
MRV
Win ✓
RT ✓
DS ✓
IB ✓
IS ✓
LMV
%Rec ✓
No Dil ✓

Δ-Lock Mass 0.05

CCV 601 HxCDD ES Low
CCV 602 HxCDD, HxCDF ES Low.
CCV 603 HxCDD, HxCDF ES Low

	File Name	Sample ID	File Text	Sample Type	Na Conc Te	Na Conc Pe-Hp	Na Conc Oc	ES Conc Te-Hp	ES Conc Oc	Conc IS	Conc CS
1	7-211009B01	H7-21-CCV-602	1613B-CS3+PERF-012	Analyte	10	50	100	100	200	100	10
2	7-211009B11	H7-21-CCV-601	1613B-CS3+PERF-012	Analyte	10	50	100	100	200	100	10
3	7-211009B28	H7-21-CCV-602	1613B-CS3+PERF-012	Analyte	10	50	100	100	200	100	10
4	7-211009B04	L2625428-1	1613	Analyte	---	---	---	4000	8000	2000	80
5	7-211009B05	L2625382-11	1613	Analyte	---	---	---	6000	12000	6000	80
6	7-211009B06	L2625400-13	1613	Analyte	---	---	---	6000	12000	6000	80
7	7-211009B07	L2625409-18	1613	Analyte	---	---	---	6000	12000	6000	80
8	7-211009B08	L2625419-5	1613	Analyte	---	---	---	6000	12000	6000	80
9	7-211009B09	L2625533-17	1613	Analyte	---	---	---	6000	12000	6000	80
10	7-211009B10	L2643545-1	1613	Analyte	---	---	---	2000	4000	2000	40
11	7-211009B14	L2621671-2	1613	Analyte	---	---	---	2000	4000	2000	40
12	7-211009B15	L2636775-15	1613	Analyte	---	---	---	2000	4000	2000	40
13	7-211009B16	L2636775-16	1613	Analyte	---	---	---	2000	4000	2000	40
14	7-211009B17	L2636775-17	1613	Analyte	---	---	---	2000	4000	2000	40
15	7-211009B18	L2636775-18	1613	Analyte	---	---	---	2000	4000	2000	40
16	7-211009B19	L2636775-19	1613	Analyte	---	---	---	2000	4000	2000	40
17	7-211009B20	L2636775-20	1613	Analyte	---	---	---	2000	4000	2000	40
18	7-211009B21	L2636775-21	1613	Analyte	---	---	---	2000	4000	2000	40
19	7-211009B22	L2636775-22	1613	Analyte	---	---	---	2000	4000	2000	40
20	7-211009B23	L2636775-23	1613	Analyte	---	---	---	2000	4000	2000	40
21	7-211009B24	L2636775-24	1613	Analyte	---	---	---	2000	4000	2000	40
22	7-211009B25	L2636775-25	1613	Analyte	---	---	---	2000	4000	2000	40
23	7-211009B26	L2636775-26	1613	Analyte	---	---	---	2000	4000	2000	40
24	7-211009B27	L2636775-27	1613	Analyte	---	---	---	2000	4000	2000	40

Quantify Sample Summary Report **MassLynx MassLynx V4.1 SCN 901**

Dataset: I:\Organics Instrument\HIGHRES GCMS Completed Results Files\HR-7\2021\2110\7-211009B-1013KB.qld

Last Altered: Wednesday, October 13, 2021 17:03:31 Eastern Daylight Time
Printed: Thursday, October 14, 2021 10:48:32 Eastern Daylight Time

Method: C:\MassLynx\Dioxin.PRO\MethDB\Dioxin_1613B.mdb 30 Aug 2021 12:17:57
Calibration: C:\MassLynx\Dioxin.PRO\CurveDB\7-210611A-CAL5-1613.cdb 14 Jun 2021 09:35:05

Name: 7-211009B01, Date: 09-Oct-2021, Time: 11:26:52, ID: H7-21-CCV-602, Description: 1613B-CS3+PERF-012, Vial: Tray1:1

	Target Analyte	#Hom	Total Area	Ion1 Area	Ion2 Area	Ra	Ra Fail=YES	RT	RRT	RT LCL	RT UCL	pg	%Rec	Mod.Comment	Noise 1	Noise 2
1	2378-TCDD		287715	129082	158633	0.81	NO	28.47	1.00	28.44	28.50	8.8359375	88.4		1893	1545
2	12378-PeCDD		1016472	628870	387602	1.62	NO	32.31	1.00	32.27	32.34	51.529902	103.1		2923	2820
3	123478-HxCDD		801465	444690	356775	1.25	NO	34.30	1.00	34.27	34.34	44.539502	89.1		8464	17625
4	123678-HxCDD		1337867	749239	588629	1.27	NO	34.36	1.00	34.32	34.39	55.464142	110.9		8464	17625
5	123789-HxCDD		1217341	676635	540706	1.25	NO	34.48	1.00	34.45	34.52	59.267606	118.5		8464	17625
6	1234678-HpCDD		837858	431301	406556	1.06	NO	35.97	1.00	35.94	36.01	51.407661	102.8		7989	3965
7	OCDD		1201517	572724	628793	0.91	NO	37.49	1.00	37.45	37.52	96.319344	96.3		7277	11489
8	2378-TCDF		438411	194221	244190	0.80	NO	27.57	1.00	27.53	27.60	10.682117	106.8		2207	3100
9	12378-PeCDF		1799823	1113225	686598	1.62	NO	31.41	1.00	31.38	31.44	51.613972	103.2		6467	8127
10	23478-PeCDF		2005074	1232325	772750	1.59	NO	32.11	1.00	32.08	32.14	50.559323	101.1		6467	8127
11	123478-HxCDF		1713422	1001851	711571	1.41	NO	33.83	1.00	33.79	33.86	50.215809	100.4		6999	1203
12	123678-HxCDF		2271633	1217412	1054221	1.15	NO	33.90	1.00	33.87	33.93	51.054590	102.1		6999	1203
13	234678-HxCDF		1972230	1082734	889496	1.22	NO	34.22	1.00	34.18	34.25	48.458933	96.9		6999	1203
14	123789-HxCDF		1528587	861088	667499	1.29	NO	34.64	1.00	34.61	34.68	49.375726	98.8		6999	1203
15	1234678-HpCDF		1301005	857982	443023	1.94	NO	35.41	1.00	35.38	35.45	50.610985	101.2		8687	5926
16	1234789-HpCDF		930215	624616	305598	2.04	NO	36.24	1.00	36.20	36.27	48.221747	96.4		8687	5926
17	OCDF		1717322	814040	903283	0.90	NO	37.58	1.00	37.55	37.62	97.780170	97.8		6552	7828
18	13C-2378-TCDD		2804488	1197037	1607452	0.74	NO	28.46	1.03	28.42	28.49	95.825645	95.8		3673	2358
19	13C-12378-PeCDD		1989717	1216763	772954	1.57	NO	32.30	1.16	32.26	32.33	94.712602	94.7		2746	6077
20	13C-123478-HxCDD		1733152	964124	769029	1.25	NO	34.29	0.99	34.26	34.33	74.841364	74.8		8415	3910
21	13C-123678-HxCDD		2354317	1318475	1035842	1.27	NO	34.35	1.00	34.31	34.38	97.051959	97.1		8415	3910
22	13C-1234678-HpCDD		1566843	822439	744404	1.10	NO	35.96	1.04	35.93	35.99	87.230173	87.2		8223	9939
23	13C-OCDD		2332337	1111925	1220412	0.91	NO	37.48	1.09	37.44	37.51	190.82528	95.4		8291	8393
24	13C-2378-TCDF		3884567	1714353	2170214	0.79	NO	27.54	0.99	27.51	27.57	88.892644	88.9		3879	2468
25	13C-12378-PeCDF		3163661	1951838	1211822	1.61	NO	31.40	1.13	31.37	31.43	91.933652	91.9		7857	3771
26	13C-23478-PeCDF		3254248	1998553	1255695	1.59	NO	32.10	1.16	32.07	32.13	99.538843	99.5		7857	3771
27	13C-123478-HxCDF		2568652	893090	1675563	0.53	NO	33.83	0.98	33.79	33.86	78.651112	78.7		2778	952
28	13C-123678-HxCDF		3415659	1204879	2210780	0.55	NO	33.89	0.98	33.86	33.92	95.036213	95.0		2778	952
29	13C-234678-HxCDF		2870916	1004901	1866015	0.54	NO	34.21	0.99	34.17	34.24	94.464643	94.5		2778	952
30	13C-123789-HxCDF		2375567	822381	1553185	0.53	NO	34.63	1.00	34.60	34.67	86.658435	86.7		2778	952
31	13C-1234678-HpCDF		2392107	784861	1607246	0.49	NO	35.40	1.03	35.37	35.44	95.602523	95.6		11995	14575
32	13C-1234789-HpCDF		1743661	514742	1228919	0.42	NO	36.22	1.05	36.19	36.26	92.175550	92.2		11995	14575
33	13C-1234-TCDD		2487499	1085751	1401748	0.77	NO	27.73	0.00	27.69	27.76	312.86066	312.9		3673	2358
34	13C-123789-HxCDD		2499043	1399969	1099074	1.27	NO	34.47	0.00	34.44	34.51	396.94150	396.9		8415	3910

Quantify Sample Summary Report **MassLynx MassLynx V4.1 SCN 901**

Dataset: I:\Organics Instrument\HIGHRES GCMS Completed Results Files\HR-7\2021\2110\7-211009B-1013KB.qld

Last Altered: Wednesday, October 13, 2021 17:03:31 Eastern Daylight Time
Printed: Thursday, October 14, 2021 10:48:32 Eastern Daylight Time

Name: 7-211009B01, Date: 09-Oct-2021, Time: 11:26:52, ID: H7-21-CCV-602, Description: 1613B-CS3+PERF-012, Vial: Tray1:1

	Target Analyte	#Hom	Total Area	Ion1 Area	Ion2 Area	Ra	Ra Fail=YES	RT	RRT	RT LCL	RT UCL	pg	%Rec	Mod.Comment	Noise 1	Noise 2
35	37Cl-2378-TCDD		284466	284466				28.47	1.00	28.44	28.50	9.5351931	95.4		1153	
36	Total-Tetradioxins	6		574350								39.758602			1893	
37	Total-Pentadioxins	5		1943428								159.40793			2923	
38	Total-Hexadioxins	5		2518137								213.53229			8464	
39	Total-Heptadioxins	2		871407								103.49760			7989	
40	Total-OCDD	1		572724								96.319344			7277	
41	Total-Tetrafurans	7		972967								53.357536			2207	
42	Total-PeCDF-F1	1		1229148								63.397264			933	
43	Total-Pentafurans	5		3462264								151.02046			6467	
44	Total-Hexafurans	5		4623974								221.27312			6999	
45	Total-Heptafurans	2		1482598								98.832733			8687	
46	Totals-OCDF	1		814040								97.780170			6552	
47	Totals-37Cl-2378-TCDD	12		292128								9.7920344			1153	

Quantify Sample Summary Report **MassLynx MassLynx V4.1 SCN 901**

Dataset: I:\Organics Instrument\HIGHRES GCMS Completed Results Files\HR-7\2021\2110\7-211009B-1013KB.qld

Last Altered: Wednesday, October 13, 2021 17:03:31 Eastern Daylight Time
Printed: Thursday, October 14, 2021 10:48:32 Eastern Daylight Time

Name: 7-211009B11, Date: 09-Oct-2021, Time: 18:44:55, ID: H7-21-CCV-601, Description: 1613B-CS3+PERF-012, Vial: Tray1:1

	Target Analyte	#Hom	Total Area	Ion1 Area	Ion2 Area	Ra	Ra Fail=YES	RT	RRT	RT LCL	RT UCL	pg	%Rec	Mod.Comment	Noise 1	Noise 2
1	2378-TCDD		281055	122998	158058	0.78	NO	28.57	1.00	28.54	28.61	8.8239737	88.2		2957	2195
2	12378-PeCDD		969397	596716	372681	1.60	NO	32.37	1.00	32.34	32.41	49.968286	99.9		2551	3621
3	123478-HxCDD		789731	440309	349422	1.26	NO	34.36	1.00	34.32	34.39	53.786580	107.6		5029	6937
4	123678-HxCDD		1286649	719781	566868	1.27	NO	34.41	1.00	34.38	34.44	49.425218	98.9	KB211012MB	5029	6937
5	123789-HxCDD		1212511	681309	531202	1.28	NO	34.54	1.00	34.50	34.57	61.009624	122.0	KB211012MB	5029	6937
6	1234678-HpCDD		837260	449801	387459	1.16	NO	36.03	1.00	35.99	36.06	49.725368	99.5		13130	13766
7	OCDD		1268593	598034	670559	0.89	NO	37.55	1.00	37.52	37.58	94.964535	95.0		8168	8245
8	2378-TCDF		426218	186572	239646	0.78	NO	27.67	1.00	27.64	27.70	10.839996	108.4		2211	3624
9	12378-PeCDF		1815267	1118782	696485	1.61	NO	31.48	1.00	31.44	31.51	52.560662	105.1		9175	4513
10	23478-PeCDF		1949275	1208449	740827	1.63	NO	32.16	1.00	32.13	32.20	51.204102	102.4		9175	4513
11	123478-HxCDF		1547703	868695	679008	1.28	NO	33.88	1.00	33.85	33.91	50.249527	100.5		12070	6810
12	123678-HxCDF		2416095	1379548	1036547	1.33	NO	33.95	1.00	33.92	33.99	52.261280	104.5		12070	6810
13	234678-HxCDF		1935920	1117080	818840	1.36	NO	34.27	1.00	34.24	34.30	50.646684	101.3		12070	6810
14	123789-HxCDF		1606196	906868	699328	1.30	NO	34.70	1.00	34.66	34.73	49.512695	99.0		12070	6810
15	1234678-HpCDF		1366678	896334	470344	1.91	NO	35.47	1.00	35.44	35.50	51.246737	102.5		9103	8180
16	1234789-HpCDF		949253	632135	317118	1.99	NO	36.29	1.00	36.26	36.32	48.554123	97.1		9103	8180
17	OCDF		1884734	912550	972184	0.94	NO	37.65	1.00	37.61	37.68	100.20850	100.2		4929	9460
18	13C-2378-TCDD		2743289	1189577	1553712	0.77	NO	28.56	1.03	28.52	28.59	95.145700	95.1		5908	3265
19	13C-12378-PeCDD		1956871	1204786	752085	1.60	NO	32.35	1.16	32.32	32.38	94.551423	94.6		3447	2407
20	13C-123478-HxCDD		1414174	788597	625577	1.26	NO	34.35	0.99	34.31	34.38	58.893861	58.9		7061	3054
21	13C-123678-HxCDD		2540832	1418499	1122332	1.26	NO	34.40	1.00	34.37	34.43	101.01301	101.0		7061	3054
22	13C-1234678-HpCDD		1618696	845349	773347	1.09	NO	36.02	1.04	35.98	36.05	86.909768	86.9		3284	13035
23	13C-OCDD		2497674	1145401	1352273	0.85	NO	37.54	1.09	37.51	37.57	197.07995	98.5		10026	6593
24	13C-2378-TCDF		3721528	1609918	2111611	0.76	NO	27.64	0.99	27.61	27.67	86.443816	86.4		8942	5656
25	13C-12378-PeCDF		3133336	1922961	1210375	1.59	NO	31.46	1.13	31.43	31.50	92.423205	92.4		3167	4689
26	13C-23478-PeCDF		3123848	1913428	1210420	1.58	NO	32.15	1.15	32.12	32.19	96.988707	97.0		3167	4689
27	13C-123478-HxCDF		2318660	859317	1459343	0.59	YES	33.87	0.98	33.83	33.90	68.469765	68.5		1546	2065
28	13C-123678-HxCDF		3548992	1172205	2376788	0.49	NO	33.94	0.98	33.91	33.98	95.231768	95.2		1546	2065
29	13C-234678-HxCDF		2696332	956029	1740302	0.55	NO	34.26	0.99	34.23	34.29	85.562641	85.6		1546	2065
30	13C-123789-HxCDF		2489273	865749	1623524	0.53	NO	34.69	1.00	34.65	34.72	87.574634	87.6		1546	2065
31	13C-1234678-HpCDF		2481685	763449	1718237	0.44	NO	35.46	1.03	35.42	35.49	95.652767	95.7		17724	20801
32	13C-1234789-HpCDF		1767167	545223	1221945	0.45	NO	36.28	1.05	36.25	36.31	90.093494	90.1		17724	20801
33	13C-1234-TCDD		2450606	1059680	1390926	0.76	NO	27.84	0.00	27.81	27.88	308.22053	308.2		5908	3265
34	13C-123789-HxCDD		2591264	1437732	1153532	1.25	NO	34.53	0.00	34.49	34.56	411.58958	411.6	KB211012MB	7061	3054
35	37Cl-2378-TCDD		264728	264728				28.57	1.00	28.54	28.61	9.0071870	90.1		2559	
36	Total-Tetradioxins	6		543187								38.880952			2957	
37	Total-Pentadioxins	3		1839286								154.13494			2551	

Quantify Sample Summary Report **MassLynx MassLynx V4.1 SCN 901**

Dataset: I:\Organics Instrument\HIGHRES GCMS Completed Results Files\HR-7\2021\2110\7-211009B-1013KB.qld

Last Altered: Wednesday, October 13, 2021 17:03:31 Eastern Daylight Time
Printed: Thursday, October 14, 2021 10:48:32 Eastern Daylight Time

Name: 7-211009B11, Date: 09-Oct-2021, Time: 18:44:55, ID: H7-21-CCV-601, Description: 1613B-CS3+PERF-012, Vial: Tray1:1

	Target Analyte	#Hom	Total Area	Ion1 Area	Ion2 Area	Ra	Ra Fail=YES	RT	RRT	RT LCL	RT UCL	pg	%Rec	Mod.Comment	Noise 1	Noise 2
38	Total-Hexadioxins	4		2432948								217.49760			5029	
39	Total-Heptadioxins	2		895563								100.17085			13130	
40	Total-OCDD	1		598034								94.964535			8168	
41	Total-Tetrafurans	7		923921								53.163694			2211	
42	Total-PeCDF-F1	1		1247444								66.405611			1617	
43	Total-Pentafurans	5		3373492								150.61989			9175	
44	Total-Hexafurans	5		4715562								223.55503			12070	
45	Total-Heptafurans	2		1528469								99.800859			9103	
46	Totals-OCDF	2		918137								100.85286			4929	
47	Totals-37Cl-2378-TCDD	4		267811								9.1120674			2559	

Quantify Audit Report MassLynx MassLynx V4.1 SCN 901

Dataset: I:\Organics Instrument\HIGHRES GCMS Completed Results Files\HR-7\2021\2110\7-211009B-1013KB.qld

Last Altered: Wednesday, October 13, 2021 17:03:31 Eastern Daylight Time
Printed: Thursday, October 14, 2021 10:48:32 Eastern Daylight Time

Date	Time	Event	Details	Comments
12-Oct-21	10:44:42	Process Extract		
12-Oct-21	10:44:42	Process Integrate		
12-Oct-21	10:44:43	Process Quantify		
12-Oct-21	10:44:43	Dataset Created		
12-Oct-21	10:46:49	Pre modification peak	Sample:7-211009B11, Compound:HXD, RT:34.536	
12-Oct-21	10:46:49	Peak modified	Sample:7-211009B11, Compound:HXD, RT:34.536	KB211012MB
12-Oct-21	10:46:49	Pre modification peak	Sample:7-211009B11, Compound:HXD, RT:34.409	
12-Oct-21	10:46:49	Peak modified	Sample:7-211009B11, Compound:HXD, RT:34.409	KB211012MB
12-Oct-21	10:46:49	Pre modification peak	Sample:7-211009B11, Compound:HXD, RT:34.536	
12-Oct-21	10:46:49	Peak modified	Sample:7-211009B11, Compound:HXD, RT:34.536	KB211012MB
12-Oct-21	10:46:49	Pre modification peak	Sample:7-211009B11, Compound:HXD, RT:34.409	
12-Oct-21	10:46:49	Peak modified	Sample:7-211009B11, Compound:HXD, RT:34.409	KB211012MB
12-Oct-21	10:47:32	Pre modification peak	Sample:7-211009B11, Compound:13CHXD, RT:34.526	
12-Oct-21	10:47:32	Peak modified	Sample:7-211009B11, Compound:13CHXD, RT:34.526	KB211012MB
12-Oct-21	10:47:32	Pre modification peak	Sample:7-211009B11, Compound:13CHXD, RT:34.526	
12-Oct-21	10:47:32	Peak modified	Sample:7-211009B11, Compound:13CHXD, RT:34.526	KB211012MB
12-Oct-21	10:48:23	Pre modification peak	Sample:7-211009B11, Compound:HXD, RT:34.780	
12-Oct-21	10:48:23	Peak modified	Sample:7-211009B11, Compound:HXD, RT:34.780	KB211012MB
12-Oct-21	10:48:23	Peak modified	Sample:7-211009B11, Compound:HXD, RT:34.536	KB211012MB
12-Oct-21	10:48:23	Peak modified	Sample:7-211009B11, Compound:HXD, RT:34.536	KB211012MB
12-Oct-21	10:48:23	Peak modified	Sample:7-211009B11, Compound:HXD, RT:34.409	KB211012MB
12-Oct-21	10:48:46	Peak modified	Sample:7-211009B11, Compound:13CHXD, RT:34.526	KB211012MB
12-Oct-21	10:48:46	Peak modified	Sample:7-211009B11, Compound:13CHXD, RT:34.526	KB211012MB
12-Oct-21	10:49:07	Peak modified	Sample:7-211009B11, Compound:HXD, RT:34.536	KB211012MB
12-Oct-21	10:49:23	Peak modified	Sample:7-211009B11, Compound:HXD, RT:34.536	KB211012MB
12-Oct-21	10:52:15	Pre modification peak	Sample:7-211009B28, Compound:13CHXD, RT:34.515	
12-Oct-21	10:52:15	Peak modified	Sample:7-211009B28, Compound:13CHXD, RT:34.515	KB211012MB
12-Oct-21	10:52:15	Pre modification peak	Sample:7-211009B28, Compound:13CHXD, RT:34.515	
12-Oct-21	10:52:15	Peak modified	Sample:7-211009B28, Compound:13CHXD, RT:34.515	KB211012MB
12-Oct-21	10:52:34	Pre modification peak	Sample:7-211009B28, Compound:HXD, RT:34.664	
12-Oct-21	10:52:34	Peak modified	Sample:7-211009B28, Compound:HXD, RT:34.664	KB211012MB
12-Oct-21	10:52:34	Pre modification peak	Sample:7-211009B28, Compound:HXD, RT:34.526	
12-Oct-21	10:52:34	Peak modified	Sample:7-211009B28, Compound:HXD, RT:34.526	KB211012MB
12-Oct-21	10:53:13	Pre modification peak	Sample:7-211009B28, Compound:HXD, RT:34.526	
12-Oct-21	10:53:13	Peak modified	Sample:7-211009B28, Compound:HXD, RT:34.526	KB211012MB
12-Oct-21	10:53:13	Peak modified	Sample:7-211009B28, Compound:HXD, RT:34.526	KB211012MB
12-Oct-21	10:53:30	Peak modified	Sample:7-211009B28, Compound:HXD, RT:34.653	KB211012MB
12-Oct-21	10:53:30	Peak modified	Sample:7-211009B28, Compound:HXD, RT:34.526	KB211012MB
12-Oct-21	10:56:07	Dataset Saved	Saved to 'C:\MassLynx\Dioxin.PRO\Results Files\7-211009B....	
12-Oct-21	10:56:25	Dataset Saved	Saved to 'I:\Organics Instrument\HIGHRES GCMS Complete...	
13-Oct-21	13:27:17	Dataset Saved	Saved to 'I:\Organics Instrument\HIGHRES GCMS Complete...	
13-Oct-21	13:27:57	Peak deleted	Sample:7-211009B05, Compound:PF-f1, RT:24.701	
13-Oct-21	13:27:57	Peak deleted	Sample:7-211009B05, Compound:PF-f1, RT:24.628	
13-Oct-21	13:27:57	Peak deleted	Sample:7-211009B05, Compound:PF-f1, RT:24.584	
13-Oct-21	13:27:57	Peak deleted	Sample:7-211009B05, Compound:PF-f1, RT:23.842	
13-Oct-21	13:27:57	Peak deleted	Sample:7-211009B05, Compound:PF-f1, RT:23.318	
13-Oct-21	13:27:57	Peak deleted	Sample:7-211009B05, Compound:PF-f1, RT:22.736	
13-Oct-21	13:27:57	Peak deleted	Sample:7-211009B05, Compound:PF-f1, RT:29.227	
13-Oct-21	13:27:57	Peak deleted	Sample:7-211009B05, Compound:PF-f1, RT:29.140	
13-Oct-21	13:27:57	Peak deleted	Sample:7-211009B05, Compound:PF-f1, RT:27.888	
13-Oct-21	13:27:57	Peak deleted	Sample:7-211009B05, Compound:PF-f1, RT:25.559	
13-Oct-21	13:28:01	Peak deleted	Sample:7-211009B06, Compound:PF-f1, RT:23.478	
13-Oct-21	13:28:01	Peak deleted	Sample:7-211009B06, Compound:PF-f1, RT:23.362	

Date	Time	Event	Details	Comments
13-Oct-21	13:28:01	Peak deleted	Sample:7-211009B06, Compound:PF-f1, RT:23.144	
13-Oct-21	13:28:01	Peak deleted	Sample:7-211009B06, Compound:PF-f1, RT:22.969	
13-Oct-21	13:28:01	Peak deleted	Sample:7-211009B06, Compound:PF-f1, RT:29.271	
13-Oct-21	13:28:01	Peak deleted	Sample:7-211009B06, Compound:PF-f1, RT:29.125	
13-Oct-21	13:28:01	Peak deleted	Sample:7-211009B06, Compound:PF-f1, RT:28.543	
13-Oct-21	13:28:01	Peak deleted	Sample:7-211009B06, Compound:PF-f1, RT:27.568	
13-Oct-21	13:28:01	Peak deleted	Sample:7-211009B06, Compound:PF-f1, RT:26.447	
13-Oct-21	13:28:01	Peak deleted	Sample:7-211009B06, Compound:PF-f1, RT:26.316	
13-Oct-21	13:28:01	Peak deleted	Sample:7-211009B06, Compound:PF-f1, RT:26.185	
13-Oct-21	13:28:01	Peak deleted	Sample:7-211009B06, Compound:PF-f1, RT:26.083	
13-Oct-21	13:28:01	Peak deleted	Sample:7-211009B06, Compound:PF-f1, RT:25.720	
13-Oct-21	13:28:01	Peak deleted	Sample:7-211009B06, Compound:PF-f1, RT:25.545	
13-Oct-21	13:28:01	Peak deleted	Sample:7-211009B06, Compound:PF-f1, RT:24.977	
13-Oct-21	13:28:01	Peak deleted	Sample:7-211009B06, Compound:PF-f1, RT:24.861	
13-Oct-21	13:28:01	Peak deleted	Sample:7-211009B06, Compound:PF-f1, RT:23.697	
13-Oct-21	13:28:05	Peak deleted	Sample:7-211009B07, Compound:PF-f1, RT:26.273	
13-Oct-21	13:28:05	Peak deleted	Sample:7-211009B07, Compound:PF-f1, RT:25.458	
13-Oct-21	13:28:05	Peak deleted	Sample:7-211009B07, Compound:PF-f1, RT:24.614	
13-Oct-21	13:28:05	Peak deleted	Sample:7-211009B07, Compound:PF-f1, RT:24.264	
13-Oct-21	13:28:05	Peak deleted	Sample:7-211009B07, Compound:PF-f1, RT:23.260	
13-Oct-21	13:28:05	Peak deleted	Sample:7-211009B07, Compound:PF-f1, RT:21.921	
13-Oct-21	13:28:05	Peak deleted	Sample:7-211009B07, Compound:PF-f1, RT:29.227	
13-Oct-21	13:28:05	Peak deleted	Sample:7-211009B07, Compound:PF-f1, RT:28.106	
13-Oct-21	13:28:05	Peak deleted	Sample:7-211009B07, Compound:PF-f1, RT:27.874	
13-Oct-21	13:28:05	Peak deleted	Sample:7-211009B07, Compound:PF-f1, RT:26.913	
13-Oct-21	13:28:11	Peak deleted	Sample:7-211009B08, Compound:PF-f1, RT:21.674	
13-Oct-21	13:28:11	Peak deleted	Sample:7-211009B08, Compound:PF-f1, RT:29.271	
13-Oct-21	13:28:11	Peak deleted	Sample:7-211009B08, Compound:PF-f1, RT:29.140	
13-Oct-21	13:28:11	Peak deleted	Sample:7-211009B08, Compound:PF-f1, RT:28.543	
13-Oct-21	13:28:11	Peak deleted	Sample:7-211009B08, Compound:PF-f1, RT:28.339	
13-Oct-21	13:28:11	Peak deleted	Sample:7-211009B08, Compound:PF-f1, RT:27.670	
13-Oct-21	13:28:11	Peak deleted	Sample:7-211009B08, Compound:PF-f1, RT:27.568	
13-Oct-21	13:28:11	Peak deleted	Sample:7-211009B08, Compound:PF-f1, RT:26.680	
13-Oct-21	13:28:11	Peak deleted	Sample:7-211009B08, Compound:PF-f1, RT:26.025	
13-Oct-21	13:28:11	Peak deleted	Sample:7-211009B08, Compound:PF-f1, RT:25.880	
13-Oct-21	13:28:11	Peak deleted	Sample:7-211009B08, Compound:PF-f1, RT:25.530	
13-Oct-21	13:28:11	Peak deleted	Sample:7-211009B08, Compound:PF-f1, RT:25.327	
13-Oct-21	13:28:11	Peak deleted	Sample:7-211009B08, Compound:PF-f1, RT:24.846	
13-Oct-21	13:28:11	Peak deleted	Sample:7-211009B08, Compound:PF-f1, RT:24.614	
13-Oct-21	13:28:11	Peak deleted	Sample:7-211009B08, Compound:PF-f1, RT:22.547	
13-Oct-21	13:28:11	Peak deleted	Sample:7-211009B08, Compound:PF-f1, RT:22.096	
13-Oct-21	13:28:15	Peak deleted	Sample:7-211009B09, Compound:PF-f1, RT:29.023	
13-Oct-21	13:28:15	Peak deleted	Sample:7-211009B09, Compound:PF-f1, RT:28.950	
13-Oct-21	13:28:15	Peak deleted	Sample:7-211009B09, Compound:PF-f1, RT:28.878	
13-Oct-21	13:28:15	Peak deleted	Sample:7-211009B09, Compound:PF-f1, RT:28.019	
13-Oct-21	13:28:15	Peak deleted	Sample:7-211009B09, Compound:PF-f1, RT:27.874	
13-Oct-21	13:28:15	Peak deleted	Sample:7-211009B09, Compound:PF-f1, RT:27.684	
13-Oct-21	13:28:15	Peak deleted	Sample:7-211009B09, Compound:PF-f1, RT:26.666	
13-Oct-21	13:28:15	Peak deleted	Sample:7-211009B09, Compound:PF-f1, RT:26.156	
13-Oct-21	13:28:15	Peak deleted	Sample:7-211009B09, Compound:PF-f1, RT:25.530	
13-Oct-21	13:28:15	Peak deleted	Sample:7-211009B09, Compound:PF-f1, RT:24.875	
13-Oct-21	13:28:15	Peak deleted	Sample:7-211009B09, Compound:PF-f1, RT:24.454	
13-Oct-21	13:28:15	Peak deleted	Sample:7-211009B09, Compound:PF-f1, RT:24.017	

Date	Time	Event	Details	Comments
13-Oct-21	13:28:15	Peak deleted	Sample:7-211009B09, Compound:PF-f1, RT:22.299	
13-Oct-21	13:28:15	Peak deleted	Sample:7-211009B09, Compound:PF-f1, RT:21.950	
13-Oct-21	13:28:15	Peak deleted	Sample:7-211009B09, Compound:PF-f1, RT:21.747	
13-Oct-21	13:28:20	Peak deleted	Sample:7-211009B10, Compound:PF-f1, RT:26.607	
13-Oct-21	13:28:20	Peak deleted	Sample:7-211009B10, Compound:PF-f1, RT:26.506	
13-Oct-21	13:28:20	Peak deleted	Sample:7-211009B10, Compound:PF-f1, RT:24.919	
13-Oct-21	13:28:20	Peak deleted	Sample:7-211009B10, Compound:PF-f1, RT:24.541	
13-Oct-21	13:28:20	Peak deleted	Sample:7-211009B10, Compound:PF-f1, RT:24.104	
13-Oct-21	13:28:20	Peak deleted	Sample:7-211009B10, Compound:PF-f1, RT:23.828	
13-Oct-21	13:28:20	Peak deleted	Sample:7-211009B10, Compound:PF-f1, RT:23.609	
13-Oct-21	13:28:20	Peak deleted	Sample:7-211009B10, Compound:PF-f1, RT:23.129	
13-Oct-21	13:28:20	Peak deleted	Sample:7-211009B10, Compound:PF-f1, RT:22.591	
13-Oct-21	13:28:20	Peak deleted	Sample:7-211009B10, Compound:PF-f1, RT:22.299	
13-Oct-21	13:28:20	Peak deleted	Sample:7-211009B10, Compound:PF-f1, RT:22.081	
13-Oct-21	13:28:20	Peak deleted	Sample:7-211009B10, Compound:PF-f1, RT:21.892	
13-Oct-21	13:28:20	Peak deleted	Sample:7-211009B10, Compound:PF-f1, RT:21.674	
13-Oct-21	13:28:20	Peak deleted	Sample:7-211009B10, Compound:PF-f1, RT:28.601	
13-Oct-21	13:28:20	Peak deleted	Sample:7-211009B10, Compound:PF-f1, RT:28.179	
13-Oct-21	13:28:20	Peak deleted	Sample:7-211009B10, Compound:PF-f1, RT:27.335	
13-Oct-21	13:28:20	Peak deleted	Sample:7-211009B10, Compound:PF-f1, RT:26.767	
13-Oct-21	13:28:25	Peak deleted	Sample:7-211009B14, Compound:PF-f1, RT:24.148	
13-Oct-21	13:28:25	Peak deleted	Sample:7-211009B14, Compound:PF-f1, RT:24.075	
13-Oct-21	13:28:25	Peak deleted	Sample:7-211009B14, Compound:PF-f1, RT:23.493	
13-Oct-21	13:28:25	Peak deleted	Sample:7-211009B14, Compound:PF-f1, RT:22.780	
13-Oct-21	13:28:25	Peak deleted	Sample:7-211009B14, Compound:PF-f1, RT:22.387	
13-Oct-21	13:28:25	Peak deleted	Sample:7-211009B14, Compound:PF-f1, RT:21.659	
13-Oct-21	13:28:25	Peak deleted	Sample:7-211009B14, Compound:PF-f1, RT:29.169	
13-Oct-21	13:28:25	Peak deleted	Sample:7-211009B14, Compound:PF-f1, RT:26.957	
13-Oct-21	13:28:30	Peak deleted	Sample:7-211009B15, Compound:PF-f1, RT:26.011	
13-Oct-21	13:28:30	Peak deleted	Sample:7-211009B15, Compound:PF-f1, RT:25.792	
13-Oct-21	13:28:30	Peak deleted	Sample:7-211009B15, Compound:PF-f1, RT:25.705	
13-Oct-21	13:28:30	Peak deleted	Sample:7-211009B15, Compound:PF-f1, RT:25.007	
13-Oct-21	13:28:30	Peak deleted	Sample:7-211009B15, Compound:PF-f1, RT:24.934	
13-Oct-21	13:28:30	Peak deleted	Sample:7-211009B15, Compound:PF-f1, RT:24.788	
13-Oct-21	13:28:30	Peak deleted	Sample:7-211009B15, Compound:PF-f1, RT:23.639	
13-Oct-21	13:28:30	Peak deleted	Sample:7-211009B15, Compound:PF-f1, RT:23.158	
13-Oct-21	13:28:30	Peak deleted	Sample:7-211009B15, Compound:PF-f1, RT:27.975	
13-Oct-21	13:28:30	Peak deleted	Sample:7-211009B15, Compound:PF-f1, RT:27.175	
13-Oct-21	13:28:30	Peak deleted	Sample:7-211009B15, Compound:PF-f1, RT:26.986	
13-Oct-21	13:28:30	Peak deleted	Sample:7-211009B15, Compound:PF-f1, RT:26.666	
13-Oct-21	13:28:30	Peak deleted	Sample:7-211009B15, Compound:PF-f1, RT:26.098	
13-Oct-21	13:28:34	Peak deleted	Sample:7-211009B16, Compound:PF-f1, RT:29.183	
13-Oct-21	13:28:34	Peak deleted	Sample:7-211009B16, Compound:PF-f1, RT:26.302	
13-Oct-21	13:28:34	Peak deleted	Sample:7-211009B16, Compound:PF-f1, RT:26.069	
13-Oct-21	13:28:34	Peak deleted	Sample:7-211009B16, Compound:PF-f1, RT:25.676	
13-Oct-21	13:28:34	Peak deleted	Sample:7-211009B16, Compound:PF-f1, RT:24.570	
13-Oct-21	13:28:34	Peak deleted	Sample:7-211009B16, Compound:PF-f1, RT:24.468	
13-Oct-21	13:28:34	Peak deleted	Sample:7-211009B16, Compound:PF-f1, RT:23.493	
13-Oct-21	13:28:34	Peak deleted	Sample:7-211009B16, Compound:PF-f1, RT:22.460	
13-Oct-21	13:28:39	Peak deleted	Sample:7-211009B17, Compound:PF-f1, RT:28.514	
13-Oct-21	13:28:39	Peak deleted	Sample:7-211009B17, Compound:PF-f1, RT:28.121	
13-Oct-21	13:28:39	Peak deleted	Sample:7-211009B17, Compound:PF-f1, RT:28.077	
13-Oct-21	13:28:39	Peak deleted	Sample:7-211009B17, Compound:PF-f1, RT:27.524	

Date	Time	Event	Details	Comments
13-Oct-21	13:28:39	Peak deleted	Sample:7-211009B17, Compound:PF-f1, RT:26.957	
13-Oct-21	13:28:39	Peak deleted	Sample:7-211009B17, Compound:PF-f1, RT:24.817	
13-Oct-21	13:28:39	Peak deleted	Sample:7-211009B17, Compound:PF-f1, RT:24.119	
13-Oct-21	13:28:39	Peak deleted	Sample:7-211009B17, Compound:PF-f1, RT:23.900	
13-Oct-21	13:28:39	Peak deleted	Sample:7-211009B17, Compound:PF-f1, RT:23.056	
13-Oct-21	13:28:39	Peak deleted	Sample:7-211009B17, Compound:PF-f1, RT:22.314	
13-Oct-21	13:28:39	Peak deleted	Sample:7-211009B17, Compound:PF-f1, RT:29.314	
13-Oct-21	13:28:43	Peak deleted	Sample:7-211009B18, Compound:PF-f1, RT:28.252	
13-Oct-21	13:28:43	Peak deleted	Sample:7-211009B18, Compound:PF-f1, RT:25.749	
13-Oct-21	13:28:43	Peak deleted	Sample:7-211009B18, Compound:PF-f1, RT:25.428	
13-Oct-21	13:28:43	Peak deleted	Sample:7-211009B18, Compound:PF-f1, RT:23.770	
13-Oct-21	13:28:43	Peak deleted	Sample:7-211009B18, Compound:PF-f1, RT:22.707	
13-Oct-21	13:28:43	Peak deleted	Sample:7-211009B18, Compound:PF-f1, RT:22.256	
13-Oct-21	13:28:43	Peak deleted	Sample:7-211009B18, Compound:PF-f1, RT:21.732	
13-Oct-21	13:28:49	Peak deleted	Sample:7-211009B19, Compound:PF-f1, RT:25.268	
13-Oct-21	13:28:49	Peak deleted	Sample:7-211009B19, Compound:PF-f1, RT:23.566	
13-Oct-21	13:28:49	Peak deleted	Sample:7-211009B19, Compound:PF-f1, RT:23.522	
13-Oct-21	13:28:49	Peak deleted	Sample:7-211009B19, Compound:PF-f1, RT:23.333	
13-Oct-21	13:28:49	Peak deleted	Sample:7-211009B19, Compound:PF-f1, RT:29.285	
13-Oct-21	13:28:49	Peak deleted	Sample:7-211009B19, Compound:PF-f1, RT:27.320	
13-Oct-21	13:28:49	Peak deleted	Sample:7-211009B19, Compound:PF-f1, RT:26.331	
13-Oct-21	13:28:49	Peak deleted	Sample:7-211009B19, Compound:PF-f1, RT:25.370	
13-Oct-21	13:28:54	Peak deleted	Sample:7-211009B20, Compound:PF-f1, RT:29.038	
13-Oct-21	13:28:54	Peak deleted	Sample:7-211009B20, Compound:PF-f1, RT:28.863	
13-Oct-21	13:28:54	Peak deleted	Sample:7-211009B20, Compound:PF-f1, RT:27.903	
13-Oct-21	13:28:54	Peak deleted	Sample:7-211009B20, Compound:PF-f1, RT:23.784	
13-Oct-21	13:28:54	Peak deleted	Sample:7-211009B20, Compound:PF-f1, RT:23.537	
13-Oct-21	13:28:54	Peak deleted	Sample:7-211009B20, Compound:PF-f1, RT:22.416	
13-Oct-21	13:28:54	Peak deleted	Sample:7-211009B20, Compound:PF-f1, RT:21.878	
13-Oct-21	13:28:54	Peak deleted	Sample:7-211009B20, Compound:PF-f1, RT:21.761	
13-Oct-21	13:29:01	Peak deleted	Sample:7-211009B21, Compound:PF-f1, RT:29.547	
13-Oct-21	13:29:01	Peak deleted	Sample:7-211009B21, Compound:PF-f1, RT:28.514	
13-Oct-21	13:29:01	Peak deleted	Sample:7-211009B21, Compound:PF-f1, RT:28.034	
13-Oct-21	13:29:01	Peak deleted	Sample:7-211009B21, Compound:PF-f1, RT:25.792	
13-Oct-21	13:29:01	Peak deleted	Sample:7-211009B21, Compound:PF-f1, RT:24.337	
13-Oct-21	13:29:01	Peak deleted	Sample:7-211009B21, Compound:PF-f1, RT:21.907	
13-Oct-21	13:29:01	Peak deleted	Sample:7-211009B21, Compound:PF-f1, RT:21.674	
13-Oct-21	13:29:07	Peak deleted	Sample:7-211009B22, Compound:PF-f1, RT:24.235	
13-Oct-21	13:29:07	Peak deleted	Sample:7-211009B22, Compound:PF-f1, RT:24.119	
13-Oct-21	13:29:07	Peak deleted	Sample:7-211009B22, Compound:PF-f1, RT:24.075	
13-Oct-21	13:29:07	Peak deleted	Sample:7-211009B22, Compound:PF-f1, RT:23.886	
13-Oct-21	13:29:07	Peak deleted	Sample:7-211009B22, Compound:PF-f1, RT:29.460	
13-Oct-21	13:29:07	Peak deleted	Sample:7-211009B22, Compound:PF-f1, RT:29.387	
13-Oct-21	13:29:07	Peak deleted	Sample:7-211009B22, Compound:PF-f1, RT:28.383	
13-Oct-21	13:29:07	Peak deleted	Sample:7-211009B22, Compound:PF-f1, RT:27.815	
13-Oct-21	13:29:07	Peak deleted	Sample:7-211009B22, Compound:PF-f1, RT:27.320	
13-Oct-21	13:29:07	Peak deleted	Sample:7-211009B22, Compound:PF-f1, RT:26.986	
13-Oct-21	13:29:07	Peak deleted	Sample:7-211009B22, Compound:PF-f1, RT:26.025	
13-Oct-21	13:29:07	Peak deleted	Sample:7-211009B22, Compound:PF-f1, RT:25.268	
13-Oct-21	13:29:07	Peak deleted	Sample:7-211009B22, Compound:PF-f1, RT:24.963	
13-Oct-21	13:29:11	Peak deleted	Sample:7-211009B23, Compound:PF-f1, RT:25.487	
13-Oct-21	13:29:11	Peak deleted	Sample:7-211009B23, Compound:PF-f1, RT:21.688	
13-Oct-21	13:29:11	Peak deleted	Sample:7-211009B23, Compound:PF-f1, RT:28.528	

Date	Time	Event	Details	Comments
13-Oct-21	13:29:11	Peak deleted	Sample:7-211009B23, Compound:PF-f1, RT:27.830	
13-Oct-21	13:29:11	Peak deleted	Sample:7-211009B23, Compound:PF-f1, RT:27.335	
13-Oct-21	13:29:11	Peak deleted	Sample:7-211009B23, Compound:PF-f1, RT:26.651	
13-Oct-21	13:29:11	Peak deleted	Sample:7-211009B23, Compound:PF-f1, RT:26.491	
13-Oct-21	13:29:11	Peak deleted	Sample:7-211009B23, Compound:PF-f1, RT:25.894	
13-Oct-21	13:29:16	Peak deleted	Sample:7-211009B24, Compound:PF-f1, RT:25.530	
13-Oct-21	13:29:16	Peak deleted	Sample:7-211009B24, Compound:PF-f1, RT:24.060	
13-Oct-21	13:29:16	Peak deleted	Sample:7-211009B24, Compound:PF-f1, RT:21.587	
13-Oct-21	13:29:16	Peak deleted	Sample:7-211009B24, Compound:PF-f1, RT:28.878	
13-Oct-21	13:29:16	Peak deleted	Sample:7-211009B24, Compound:PF-f1, RT:27.874	
13-Oct-21	13:29:16	Peak deleted	Sample:7-211009B24, Compound:PF-f1, RT:25.836	
13-Oct-21	13:29:16	Peak deleted	Sample:7-211009B24, Compound:PF-f1, RT:25.632	
13-Oct-21	13:29:22	Peak deleted	Sample:7-211009B25, Compound:PF-f1, RT:29.445	
13-Oct-21	13:29:22	Peak deleted	Sample:7-211009B25, Compound:PF-f1, RT:29.285	
13-Oct-21	13:29:22	Peak deleted	Sample:7-211009B25, Compound:PF-f1, RT:28.994	
13-Oct-21	13:29:22	Peak deleted	Sample:7-211009B25, Compound:PF-f1, RT:28.092	
13-Oct-21	13:29:22	Peak deleted	Sample:7-211009B25, Compound:PF-f1, RT:27.815	
13-Oct-21	13:29:22	Peak deleted	Sample:7-211009B25, Compound:PF-f1, RT:26.971	
13-Oct-21	13:29:22	Peak deleted	Sample:7-211009B25, Compound:PF-f1, RT:25.923	
13-Oct-21	13:29:22	Peak deleted	Sample:7-211009B25, Compound:PF-f1, RT:25.836	
13-Oct-21	13:29:22	Peak deleted	Sample:7-211009B25, Compound:PF-f1, RT:24.977	
13-Oct-21	13:29:22	Peak deleted	Sample:7-211009B25, Compound:PF-f1, RT:24.817	
13-Oct-21	13:29:22	Peak deleted	Sample:7-211009B25, Compound:PF-f1, RT:24.031	
13-Oct-21	13:29:22	Peak deleted	Sample:7-211009B25, Compound:PF-f1, RT:22.154	
13-Oct-21	13:29:22	Peak deleted	Sample:7-211009B25, Compound:PF-f1, RT:29.576	
13-Oct-21	13:29:29	Peak deleted	Sample:7-211009B26, Compound:PF-f1, RT:23.857	
13-Oct-21	13:29:29	Peak deleted	Sample:7-211009B26, Compound:PF-f1, RT:23.376	
13-Oct-21	13:29:29	Peak deleted	Sample:7-211009B26, Compound:PF-f1, RT:22.372	
13-Oct-21	13:29:29	Peak deleted	Sample:7-211009B26, Compound:PF-f1, RT:22.299	
13-Oct-21	13:29:29	Peak deleted	Sample:7-211009B26, Compound:PF-f1, RT:21.805	
13-Oct-21	13:29:29	Peak deleted	Sample:7-211009B26, Compound:PF-f1, RT:21.587	
13-Oct-21	13:29:29	Peak deleted	Sample:7-211009B26, Compound:PF-f1, RT:28.135	
13-Oct-21	13:29:29	Peak deleted	Sample:7-211009B26, Compound:PF-f1, RT:27.102	
13-Oct-21	13:29:29	Peak deleted	Sample:7-211009B26, Compound:PF-f1, RT:26.986	
13-Oct-21	13:29:29	Peak deleted	Sample:7-211009B26, Compound:PF-f1, RT:26.564	
13-Oct-21	13:29:29	Peak deleted	Sample:7-211009B26, Compound:PF-f1, RT:25.618	
13-Oct-21	13:29:29	Peak deleted	Sample:7-211009B26, Compound:PF-f1, RT:24.905	
13-Oct-21	13:29:29	Peak deleted	Sample:7-211009B26, Compound:PF-f1, RT:24.206	
13-Oct-21	13:29:29	Peak deleted	Sample:7-211009B26, Compound:PF-f1, RT:23.944	
13-Oct-21	13:29:35	Peak deleted	Sample:7-211009B27, Compound:PF-f1, RT:25.094	
13-Oct-21	13:29:35	Peak deleted	Sample:7-211009B27, Compound:PF-f1, RT:23.842	
13-Oct-21	13:29:35	Peak deleted	Sample:7-211009B27, Compound:PF-f1, RT:23.653	
13-Oct-21	13:29:35	Peak deleted	Sample:7-211009B27, Compound:PF-f1, RT:23.260	
13-Oct-21	13:29:35	Peak deleted	Sample:7-211009B27, Compound:PF-f1, RT:21.615	
13-Oct-21	13:29:35	Peak deleted	Sample:7-211009B27, Compound:PF-f1, RT:29.372	
13-Oct-21	13:29:35	Peak deleted	Sample:7-211009B27, Compound:PF-f1, RT:28.805	
13-Oct-21	13:29:35	Peak deleted	Sample:7-211009B27, Compound:PF-f1, RT:28.499	
13-Oct-21	13:29:35	Peak deleted	Sample:7-211009B27, Compound:PF-f1, RT:25.705	
13-Oct-21	13:29:52	Peak added	Sample:7-211009B07, Compound:PF-f2, RT:32.711	
13-Oct-21	13:29:52	Peak deleted	Sample:7-211009B07, Compound:PF-f2, RT:32.734	
13-Oct-21	13:29:58	Peak added	Sample:7-211009B06, Compound:PF-f2, RT:32.722	
13-Oct-21	13:29:58	Peak deleted	Sample:7-211009B06, Compound:PF-f2, RT:32.734	
13-Oct-21	13:30:10	Peak added	Sample:7-211009B05, Compound:PF-f2, RT:32.734	

Quantify Audit Report MassLynx MassLynx V4.1 SCN 901

Dataset: I:\Organics Instrument\HIGHRES GCMS Completed Results Files\HR-7\2021\2110\7-211009B-1013KB.qld

Last Altered: Wednesday, October 13, 2021 17:03:31 Eastern Daylight Time
Printed: Thursday, October 14, 2021 10:48:32 Eastern Daylight Time

Date	Time	Event	Details	Comments
13-Oct-21	13:30:10	Peak deleted	Sample:7-211009B05, Compound:PF-f2, RT:32.744	
13-Oct-21	13:30:19	Peak added	Sample:7-211009B08, Compound:PF-f2, RT:32.722	
13-Oct-21	13:30:19	Peak deleted	Sample:7-211009B08, Compound:PF-f2, RT:32.734	
13-Oct-21	13:30:53	Peak added	Sample:7-211009B26, Compound:PF-f2, RT:31.771	
13-Oct-21	13:30:53	Peak deleted	Sample:7-211009B26, Compound:PF-f2, RT:31.771	
13-Oct-21	13:30:59	Peak added	Sample:7-211009B27, Compound:PF-f2, RT:31.760	
13-Oct-21	13:30:59	Peak deleted	Sample:7-211009B27, Compound:PF-f2, RT:31.771	
13-Oct-21	13:35:05	Dataset Saved	Saved to 'I:\Organics Instrument\HIGHRES GCMS Complete...	
13-Oct-21	13:35:58	Pre modification peak	Sample:7-211009B06, Compound:TD, RT:27.641	
13-Oct-21	13:35:58	Peak modified	Sample:7-211009B06, Compound:TD, RT:27.641	KB211013MB
13-Oct-21	13:36:35	Peak deleted	Sample:7-211009B07, Compound:TD, RT:27.582	
13-Oct-21	13:36:35	Peak deleted	Sample:7-211009B07, Compound:TD, RT:25.632	
13-Oct-21	13:36:35	Peak deleted	Sample:7-211009B07, Compound:TD, RT:29.649	
13-Oct-21	13:36:35	Peak deleted	Sample:7-211009B07, Compound:TD, RT:23.391	
13-Oct-21	13:36:35	Peak deleted	Sample:7-211009B07, Compound:TD, RT:23.333	
13-Oct-21	13:36:35	Peak deleted	Sample:7-211009B07, Compound:TD, RT:23.216	
13-Oct-21	13:36:35	Peak deleted	Sample:7-211009B07, Compound:TD, RT:23.173	
13-Oct-21	13:36:35	Peak deleted	Sample:7-211009B07, Compound:TD, RT:23.086	
13-Oct-21	13:36:35	Peak deleted	Sample:7-211009B07, Compound:TD, RT:22.969	
13-Oct-21	13:36:35	Peak deleted	Sample:7-211009B07, Compound:TD, RT:22.911	
13-Oct-21	13:36:35	Peak deleted	Sample:7-211009B07, Compound:TD, RT:22.823	
13-Oct-21	13:36:35	Peak deleted	Sample:7-211009B07, Compound:TD, RT:22.707	
13-Oct-21	13:36:35	Peak deleted	Sample:7-211009B07, Compound:TD, RT:22.576	
13-Oct-21	13:36:35	Peak deleted	Sample:7-211009B07, Compound:TD, RT:22.431	
13-Oct-21	13:36:35	Peak deleted	Sample:7-211009B07, Compound:TD, RT:22.183	
13-Oct-21	13:36:35	Peak deleted	Sample:7-211009B07, Compound:TD, RT:21.950	
13-Oct-21	13:36:35	Peak deleted	Sample:7-211009B07, Compound:TD, RT:21.659	
13-Oct-21	13:36:35	Peak deleted	Sample:7-211009B07, Compound:TD, RT:24.031	
13-Oct-21	13:36:35	Peak deleted	Sample:7-211009B07, Compound:TD, RT:23.959	
13-Oct-21	13:36:35	Peak deleted	Sample:7-211009B07, Compound:TD, RT:23.915	
13-Oct-21	13:36:35	Peak deleted	Sample:7-211009B07, Compound:TD, RT:23.828	
13-Oct-21	13:36:35	Peak deleted	Sample:7-211009B07, Compound:TD, RT:23.726	
13-Oct-21	13:36:35	Peak deleted	Sample:7-211009B07, Compound:TD, RT:23.667	
13-Oct-21	13:36:35	Peak deleted	Sample:7-211009B07, Compound:TD, RT:23.580	
13-Oct-21	13:36:35	Peak deleted	Sample:7-211009B07, Compound:TD, RT:23.449	
13-Oct-21	13:36:35	Peak deleted	Sample:7-211009B07, Compound:TD, RT:27.190	
13-Oct-21	13:36:57	Peak deleted	Sample:7-211009B08, Compound:TD, RT:25.938	
13-Oct-21	13:36:57	Peak deleted	Sample:7-211009B08, Compound:TD, RT:25.501	
13-Oct-21	13:36:57	Peak deleted	Sample:7-211009B08, Compound:TD, RT:24.963	
13-Oct-21	13:36:57	Peak deleted	Sample:7-211009B08, Compound:TD, RT:28.528	
13-Oct-21	13:36:57	Peak deleted	Sample:7-211009B08, Compound:TD, RT:23.507	
13-Oct-21	13:36:57	Peak deleted	Sample:7-211009B08, Compound:TD, RT:23.100	
13-Oct-21	13:36:57	Peak deleted	Sample:7-211009B08, Compound:TD, RT:23.056	
13-Oct-21	13:36:57	Peak deleted	Sample:7-211009B08, Compound:TD, RT:22.780	
13-Oct-21	13:36:57	Peak deleted	Sample:7-211009B08, Compound:TD, RT:22.707	
13-Oct-21	13:36:57	Peak deleted	Sample:7-211009B08, Compound:TD, RT:22.649	
13-Oct-21	13:36:57	Peak deleted	Sample:7-211009B08, Compound:TD, RT:22.547	
13-Oct-21	13:36:57	Peak deleted	Sample:7-211009B08, Compound:TD, RT:22.402	
13-Oct-21	13:36:57	Peak deleted	Sample:7-211009B08, Compound:TD, RT:22.329	
13-Oct-21	13:36:57	Peak deleted	Sample:7-211009B08, Compound:TD, RT:22.271	
13-Oct-21	13:36:57	Peak deleted	Sample:7-211009B08, Compound:TD, RT:22.227	
13-Oct-21	13:36:57	Peak deleted	Sample:7-211009B08, Compound:TD, RT:21.979	
13-Oct-21	13:36:57	Peak deleted	Sample:7-211009B08, Compound:TD, RT:21.848	

Date	Time	Event	Details	Comments
13-Oct-21	13:36:57	Peak deleted	Sample:7-211009B08, Compound:TD, RT:21.572	
13-Oct-21	13:36:57	Peak deleted	Sample:7-211009B08, Compound:TD, RT:24.788	
13-Oct-21	13:36:57	Peak deleted	Sample:7-211009B08, Compound:TD, RT:24.715	
13-Oct-21	13:36:57	Peak deleted	Sample:7-211009B08, Compound:TD, RT:24.672	
13-Oct-21	13:36:57	Peak deleted	Sample:7-211009B08, Compound:TD, RT:24.555	
13-Oct-21	13:36:57	Peak deleted	Sample:7-211009B08, Compound:TD, RT:24.060	
13-Oct-21	13:36:57	Peak deleted	Sample:7-211009B08, Compound:TD, RT:23.813	
13-Oct-21	13:36:57	Peak deleted	Sample:7-211009B08, Compound:TD, RT:23.668	
13-Oct-21	13:37:15	Peak deleted	Sample:7-211009B09, Compound:TD, RT:24.759	
13-Oct-21	13:37:15	Peak deleted	Sample:7-211009B09, Compound:TD, RT:24.657	
13-Oct-21	13:37:15	Peak deleted	Sample:7-211009B09, Compound:TD, RT:24.468	
13-Oct-21	13:37:15	Peak deleted	Sample:7-211009B09, Compound:TD, RT:24.352	
13-Oct-21	13:37:15	Peak deleted	Sample:7-211009B09, Compound:TD, RT:24.293	
13-Oct-21	13:37:15	Peak deleted	Sample:7-211009B09, Compound:TD, RT:24.104	
13-Oct-21	13:37:15	Peak deleted	Sample:7-211009B09, Compound:TD, RT:24.046	
13-Oct-21	13:37:15	Peak deleted	Sample:7-211009B09, Compound:TD, RT:22.169	
13-Oct-21	13:37:15	Peak deleted	Sample:7-211009B09, Compound:TD, RT:22.110	
13-Oct-21	13:37:15	Peak deleted	Sample:7-211009B09, Compound:TD, RT:21.761	
13-Oct-21	13:37:15	Peak deleted	Sample:7-211009B09, Compound:TD, RT:21.703	
13-Oct-21	13:37:15	Peak deleted	Sample:7-211009B09, Compound:TD, RT:21.615	
13-Oct-21	13:37:15	Peak deleted	Sample:7-211009B09, Compound:TD, RT:28.747	
13-Oct-21	13:37:15	Peak deleted	Sample:7-211009B09, Compound:TD, RT:25.982	
13-Oct-21	13:37:29	Peak deleted	Sample:7-211009B10, Compound:TD, RT:27.903	
13-Oct-21	13:37:29	Peak deleted	Sample:7-211009B10, Compound:TD, RT:23.406	
13-Oct-21	13:37:29	Peak deleted	Sample:7-211009B10, Compound:TD, RT:23.202	
13-Oct-21	13:37:29	Peak deleted	Sample:7-211009B10, Compound:TD, RT:22.809	
13-Oct-21	13:37:29	Peak deleted	Sample:7-211009B10, Compound:TD, RT:22.460	
13-Oct-21	13:37:45	Peak deleted	Sample:7-211009B14, Compound:TD, RT:24.483	
13-Oct-21	13:37:45	Peak deleted	Sample:7-211009B14, Compound:TD, RT:24.439	
13-Oct-21	13:37:45	Peak deleted	Sample:7-211009B14, Compound:TD, RT:23.915	
13-Oct-21	13:37:45	Peak deleted	Sample:7-211009B14, Compound:TD, RT:23.726	
13-Oct-21	13:37:45	Peak deleted	Sample:7-211009B14, Compound:TD, RT:23.653	
13-Oct-21	13:37:45	Peak deleted	Sample:7-211009B14, Compound:TD, RT:23.609	
13-Oct-21	13:37:45	Peak deleted	Sample:7-211009B14, Compound:TD, RT:23.406	
13-Oct-21	13:37:45	Peak deleted	Sample:7-211009B14, Compound:TD, RT:23.333	
13-Oct-21	13:37:45	Peak deleted	Sample:7-211009B14, Compound:TD, RT:23.100	
13-Oct-21	13:37:45	Peak deleted	Sample:7-211009B14, Compound:TD, RT:22.925	
13-Oct-21	13:37:45	Peak deleted	Sample:7-211009B14, Compound:TD, RT:22.649	
13-Oct-21	13:37:45	Peak deleted	Sample:7-211009B14, Compound:TD, RT:22.591	
13-Oct-21	13:37:45	Peak deleted	Sample:7-211009B14, Compound:TD, RT:22.431	
13-Oct-21	13:37:45	Peak deleted	Sample:7-211009B14, Compound:TD, RT:21.892	
13-Oct-21	13:37:45	Peak deleted	Sample:7-211009B14, Compound:TD, RT:24.643	
13-Oct-21	13:37:45	Peak deleted	Sample:7-211009B14, Compound:TD, RT:24.599	
13-Oct-21	13:38:03	Peak deleted	Sample:7-211009B14, Compound:TD, RT:29.416	
13-Oct-21	13:38:12	Peak deleted	Sample:7-211009B15, Compound:TD, RT:24.890	
13-Oct-21	13:38:12	Peak deleted	Sample:7-211009B15, Compound:TD, RT:24.715	
13-Oct-21	13:38:12	Peak deleted	Sample:7-211009B15, Compound:TD, RT:24.454	
13-Oct-21	13:38:12	Peak deleted	Sample:7-211009B15, Compound:TD, RT:24.206	
13-Oct-21	13:38:12	Peak deleted	Sample:7-211009B15, Compound:TD, RT:23.668	
13-Oct-21	13:38:12	Peak deleted	Sample:7-211009B15, Compound:TD, RT:23.231	
13-Oct-21	13:38:12	Peak deleted	Sample:7-211009B15, Compound:TD, RT:23.056	
13-Oct-21	13:38:12	Peak deleted	Sample:7-211009B15, Compound:TD, RT:22.591	
13-Oct-21	13:38:12	Peak deleted	Sample:7-211009B15, Compound:TD, RT:21.674	

Date	Time	Event	Details	Comments
13-Oct-21	13:38:33	Peak deleted	Sample:7-211009B18, Compound:TD, RT:22.620	
13-Oct-21	13:38:45	Peak deleted	Sample:7-211009B19, Compound:TD, RT:28.063	
13-Oct-21	13:38:55	Peak deleted	Sample:7-211009B20, Compound:TD, RT:24.410	
13-Oct-21	13:38:55	Peak deleted	Sample:7-211009B20, Compound:TD, RT:23.930	
13-Oct-21	13:38:55	Peak deleted	Sample:7-211009B20, Compound:TD, RT:23.667	
13-Oct-21	13:38:55	Peak deleted	Sample:7-211009B20, Compound:TD, RT:23.595	
13-Oct-21	13:38:55	Peak deleted	Sample:7-211009B20, Compound:TD, RT:23.231	
13-Oct-21	13:38:55	Peak deleted	Sample:7-211009B20, Compound:TD, RT:22.241	
13-Oct-21	13:38:55	Peak deleted	Sample:7-211009B20, Compound:TD, RT:22.183	
13-Oct-21	13:39:09	Pre modification peak	Sample:7-211009B21, Compound:TD, RT:26.156	
13-Oct-21	13:39:09	Peak modified	Sample:7-211009B21, Compound:TD, RT:26.156	KB211013MB
13-Oct-21	13:39:09	Peak deleted	Sample:7-211009B21, Compound:TD, RT:21.921	KB211013MB
13-Oct-21	13:39:09	Peak deleted	Sample:7-211009B21, Compound:TD, RT:21.718	KB211013MB
13-Oct-21	13:39:09	Peak deleted	Sample:7-211009B21, Compound:TD, RT:21.587	KB211013MB
13-Oct-21	13:39:36	Peak deleted	Sample:7-211009B26, Compound:TD, RT:27.655	
13-Oct-21	13:39:36	Peak deleted	Sample:7-211009B26, Compound:TD, RT:24.017	
13-Oct-21	13:39:36	Peak deleted	Sample:7-211009B26, Compound:TD, RT:23.726	
13-Oct-21	13:39:36	Peak deleted	Sample:7-211009B26, Compound:TD, RT:23.580	
13-Oct-21	13:39:36	Peak deleted	Sample:7-211009B26, Compound:TD, RT:23.420	
13-Oct-21	13:39:36	Peak deleted	Sample:7-211009B26, Compound:TD, RT:23.289	
13-Oct-21	13:39:36	Peak deleted	Sample:7-211009B26, Compound:TD, RT:23.173	
13-Oct-21	13:39:36	Peak deleted	Sample:7-211009B26, Compound:TD, RT:22.227	
13-Oct-21	13:39:36	Peak deleted	Sample:7-211009B26, Compound:TD, RT:21.936	
13-Oct-21	13:40:19	Peak added	Sample:7-211009B05, Compound:PD, RT:32.153	KB211013MA
13-Oct-21	13:40:19	Peak added	Sample:7-211009B05, Compound:PD, RT:31.475	KB211013MA
13-Oct-21	13:40:45	Peak added	Sample:7-211009B08, Compound:PD, RT:32.372	KB211013MA
13-Oct-21	13:40:45	Pre modification peak	Sample:7-211009B08, Compound:PD, RT:32.143	
13-Oct-21	13:40:45	Peak modified	Sample:7-211009B08, Compound:PD, RT:32.143	KB211013MA
13-Oct-21	13:40:45	Peak added	Sample:7-211009B08, Compound:PD, RT:32.372	KB211013MA
13-Oct-21	13:41:11	Pre modification peak	Sample:7-211009B14, Compound:PD, RT:31.924	
13-Oct-21	13:41:11	Peak modified	Sample:7-211009B14, Compound:PD, RT:31.924	KB211013MB
13-Oct-21	13:41:11	Pre modification peak	Sample:7-211009B14, Compound:PD, RT:31.869	
13-Oct-21	13:41:11	Peak modified	Sample:7-211009B14, Compound:PD, RT:31.869	KB211013MB
13-Oct-21	13:41:45	Pre modification peak	Sample:7-211009B16, Compound:PD, RT:31.442	
13-Oct-21	13:41:45	Peak modified	Sample:7-211009B16, Compound:PD, RT:31.442	KB211013MA
13-Oct-21	13:41:45	Pre modification peak	Sample:7-211009B16, Compound:PD, RT:31.431	
13-Oct-21	13:41:45	Peak modified	Sample:7-211009B16, Compound:PD, RT:31.431	KB211013MA
13-Oct-21	13:41:45	Peak added	Sample:7-211009B16, Compound:PD, RT:32.143	KB211013MA
13-Oct-21	13:42:01	Pre modification peak	Sample:7-211009B17, Compound:PD, RT:31.453	
13-Oct-21	13:42:01	Peak modified	Sample:7-211009B17, Compound:PD, RT:31.453	KB211013MA
13-Oct-21	13:42:01	Peak added	Sample:7-211009B17, Compound:PD, RT:32.143	KB211013MA
13-Oct-21	13:42:30	Pre modification peak	Sample:7-211009B23, Compound:PD, RT:32.143	
13-Oct-21	13:42:30	Peak modified	Sample:7-211009B23, Compound:PD, RT:32.143	KB211013MB
13-Oct-21	13:42:30	Pre modification peak	Sample:7-211009B23, Compound:PD, RT:32.132	
13-Oct-21	13:42:30	Peak modified	Sample:7-211009B23, Compound:PD, RT:32.132	KB211013MB
13-Oct-21	13:42:53	Pre modification peak	Sample:7-211009B24, Compound:PD, RT:32.143	
13-Oct-21	13:42:53	Peak modified	Sample:7-211009B24, Compound:PD, RT:32.143	KB211013MB
13-Oct-21	13:42:53	Pre modification peak	Sample:7-211009B24, Compound:PD, RT:31.453	
13-Oct-21	13:42:53	Peak modified	Sample:7-211009B24, Compound:PD, RT:31.453	KB211013MB
13-Oct-21	13:42:53	Pre modification peak	Sample:7-211009B24, Compound:PD, RT:31.377	
13-Oct-21	13:42:53	Peak modified	Sample:7-211009B24, Compound:PD, RT:31.377	KB211013MB
13-Oct-21	13:42:53	Pre modification peak	Sample:7-211009B24, Compound:PD, RT:31.464	
13-Oct-21	13:42:53	Peak modified	Sample:7-211009B24, Compound:PD, RT:31.464	KB211013MB

Quantify Audit Report MassLynx MassLynx V4.1 SCN 901

Dataset: I:\Organics Instrument\HIGHRES GCMS Completed Results Files\HR-7\2021\2110\7-211009B-1013KB.qld

Last Altered: Wednesday, October 13, 2021 17:03:31 Eastern Daylight Time
Printed: Thursday, October 14, 2021 10:48:32 Eastern Daylight Time

Date	Time	Event	Details	Comments
13-Oct-21	13:43:02	Pre modification peak	Sample:7-211009B25, Compound:PD, RT:32.143	
13-Oct-21	13:43:02	Peak modified	Sample:7-211009B25, Compound:PD, RT:32.143	KB211013MB
13-Oct-21	13:43:15	Pre modification peak	Sample:7-211009B26, Compound:PD, RT:32.153	
13-Oct-21	13:43:15	Peak modified	Sample:7-211009B26, Compound:PD, RT:32.153	KB211013MB
13-Oct-21	13:43:15	Peak added	Sample:7-211009B26, Compound:PD, RT:32.153	KB211013MB
13-Oct-21	13:44:35	Peak deleted	Sample:7-211009B04, Compound:HXD, RT:33.253	
13-Oct-21	13:45:09	Pre modification peak	Sample:7-211009B10, Compound:HXD, RT:32.893	
13-Oct-21	13:45:09	Peak modified	Sample:7-211009B10, Compound:HXD, RT:32.893	KB211013MB
13-Oct-21	13:45:09	Pre modification peak	Sample:7-211009B10, Compound:HXD, RT:33.529	
13-Oct-21	13:45:09	Peak modified	Sample:7-211009B10, Compound:HXD, RT:33.529	KB211013MB
13-Oct-21	13:45:09	Peak added	Sample:7-211009B10, Compound:HXD, RT:34.536	KB211013MB
13-Oct-21	13:45:09	Pre modification peak	Sample:7-211009B10, Compound:HXD, RT:32.893	
13-Oct-21	13:45:09	Peak modified	Sample:7-211009B10, Compound:HXD, RT:32.893	KB211013MB
13-Oct-21	13:45:09	Pre modification peak	Sample:7-211009B10, Compound:HXD, RT:33.529	
13-Oct-21	13:45:09	Peak modified	Sample:7-211009B10, Compound:HXD, RT:33.529	KB211013MB
13-Oct-21	13:45:35	Pre modification peak	Sample:7-211009B14, Compound:HXD, RT:34.579	
13-Oct-21	13:45:35	Peak modified	Sample:7-211009B14, Compound:HXD, RT:34.579	KB211013MS
13-Oct-21	13:45:35	Pre modification peak	Sample:7-211009B14, Compound:HXD, RT:34.441	
13-Oct-21	13:45:35	Peak modified	Sample:7-211009B14, Compound:HXD, RT:34.441	KB211013MS
13-Oct-21	13:45:35	Peak added	Sample:7-211009B14, Compound:HXD, RT:34.420	KB211013MS
13-Oct-21	13:45:35	Peak added	Sample:7-211009B14, Compound:HXD, RT:34.536	KB211013MS
13-Oct-21	13:45:49	Peak added	Sample:7-211009B17, Compound:HXD, RT:33.518	KB211013MA
13-Oct-21	13:46:09	Peak added	Sample:7-211009B20, Compound:HXD, RT:33.996	KB211013MA
13-Oct-21	13:46:09	Peak added	Sample:7-211009B20, Compound:HXD, RT:34.399	KB211013MA
13-Oct-21	13:46:09	Peak added	Sample:7-211009B20, Compound:HXD, RT:34.006	KB211013MA
13-Oct-21	13:48:48	Peak added	Sample:7-211009B26, Compound:HXD, RT:34.674	KB211013MA
13-Oct-21	16:08:38	Peak deleted	Sample:7-211009B05, Compound:HPD, RT:36.268	
13-Oct-21	16:08:38	Peak deleted	Sample:7-211009B05, Compound:HPD, RT:35.447	
13-Oct-21	16:08:46	Peak deleted	Sample:7-211009B06, Compound:HPD, RT:36.268	KB211013MA
13-Oct-21	16:08:46	Peak deleted	Sample:7-211009B06, Compound:HPD, RT:35.447	KB211013MA
13-Oct-21	16:08:46	Peak added	Sample:7-211009B06, Compound:HPD, RT:36.027	KB211013MA
13-Oct-21	16:09:07	Peak deleted	Sample:7-211009B07, Compound:HPD, RT:36.552	
13-Oct-21	16:09:07	Peak deleted	Sample:7-211009B07, Compound:HPD, RT:35.447	
13-Oct-21	16:09:12	Peak deleted	Sample:7-211009B08, Compound:HPD, RT:35.458	
13-Oct-21	16:09:12	Peak deleted	Sample:7-211009B08, Compound:HPD, RT:36.268	
13-Oct-21	16:09:16	Peak deleted	Sample:7-211009B09, Compound:HPD, RT:36.268	
13-Oct-21	16:09:16	Peak deleted	Sample:7-211009B09, Compound:HPD, RT:35.447	
13-Oct-21	16:09:22	Peak deleted	Sample:7-211009B10, Compound:HPD, RT:36.662	
13-Oct-21	16:09:22	Peak deleted	Sample:7-211009B10, Compound:HPD, RT:36.279	
13-Oct-21	16:09:22	Peak deleted	Sample:7-211009B10, Compound:HPD, RT:36.115	
13-Oct-21	16:09:22	Peak deleted	Sample:7-211009B10, Compound:HPD, RT:35.732	
13-Oct-21	16:09:22	Peak deleted	Sample:7-211009B10, Compound:HPD, RT:35.447	
13-Oct-21	16:09:30	Peak deleted	Sample:7-211009B15, Compound:HPD, RT:36.333	
13-Oct-21	16:09:30	Peak deleted	Sample:7-211009B15, Compound:HPD, RT:36.257	
13-Oct-21	16:09:30	Peak deleted	Sample:7-211009B15, Compound:HPD, RT:35.469	
13-Oct-21	16:09:44	Pre modification peak	Sample:7-211009B16, Compound:HPD, RT:36.016	
13-Oct-21	16:09:44	Peak modified	Sample:7-211009B16, Compound:HPD, RT:36.016	KB211013MB
13-Oct-21	16:09:44	Peak deleted	Sample:7-211009B16, Compound:HPD, RT:36.312	KB211013MB
13-Oct-21	16:09:44	Peak deleted	Sample:7-211009B16, Compound:HPD, RT:36.268	KB211013MB
13-Oct-21	16:09:44	Peak deleted	Sample:7-211009B16, Compound:HPD, RT:35.819	KB211013MB
13-Oct-21	16:09:44	Peak deleted	Sample:7-211009B16, Compound:HPD, RT:35.677	KB211013MB
13-Oct-21	16:09:44	Peak deleted	Sample:7-211009B16, Compound:HPD, RT:35.513	KB211013MB
13-Oct-21	16:09:44	Peak deleted	Sample:7-211009B16, Compound:HPD, RT:35.447	KB211013MB

Quantify Audit Report MassLynx MassLynx V4.1 SCN 901

Dataset: I:\Organics Instrument\HIGHRES GCMS Completed Results Files\HR-7\2021\2110\7-211009B-1013KB.qld

Last Altered: Wednesday, October 13, 2021 17:03:31 Eastern Daylight Time
Printed: Thursday, October 14, 2021 10:48:32 Eastern Daylight Time

Date	Time	Event	Details	Comments
13-Oct-21	16:09:55	Peak deleted	Sample:7-211009B17, Compound:HPD, RT:36.268	
13-Oct-21	16:09:55	Peak deleted	Sample:7-211009B17, Compound:HPD, RT:36.049	
13-Oct-21	16:09:55	Peak deleted	Sample:7-211009B17, Compound:HPD, RT:35.436	
13-Oct-21	16:10:04	Peak added	Sample:7-211009B18, Compound:HPD, RT:35.644	KB211013MA
13-Oct-21	16:10:19	Peak added	Sample:7-211009B19, Compound:HPD, RT:35.622	KB211013MA
13-Oct-21	16:10:19	Peak deleted	Sample:7-211009B19, Compound:HPD, RT:35.447	KB211013MA
13-Oct-21	16:10:19	Peak added	Sample:7-211009B19, Compound:HPD, RT:35.622	KB211013MA
13-Oct-21	16:10:33	Peak deleted	Sample:7-211009B26, Compound:HPD, RT:35.447	
13-Oct-21	16:10:40	Peak deleted	Sample:7-211009B27, Compound:HPD, RT:35.469	
13-Oct-21	16:10:55	Pre modification peak	Sample:7-211009B05, Compound:OCD, RT:37.549	
13-Oct-21	16:10:55	Peak modified	Sample:7-211009B05, Compound:OCD, RT:37.549	KB211013MB
13-Oct-21	16:11:05	Pre modification peak	Sample:7-211009B06, Compound:OCD, RT:37.557	
13-Oct-21	16:11:05	Peak modified	Sample:7-211009B06, Compound:OCD, RT:37.557	KB211013MB
13-Oct-21	16:11:15	Peak added	Sample:7-211009B07, Compound:OCD, RT:37.549	KB211013MB
13-Oct-21	16:11:33	Pre modification peak	Sample:7-211009B08, Compound:OCD, RT:37.575	
13-Oct-21	16:11:33	Peak modified	Sample:7-211009B08, Compound:OCD, RT:37.575	KB211013MB
13-Oct-21	16:11:33	Pre modification peak	Sample:7-211009B08, Compound:OCD, RT:36.841	
13-Oct-21	16:11:33	Peak modified	Sample:7-211009B08, Compound:OCD, RT:36.841	KB211013MB
13-Oct-21	16:11:33	Pre modification peak	Sample:7-211009B08, Compound:OCD, RT:37.557	
13-Oct-21	16:11:33	Peak modified	Sample:7-211009B08, Compound:OCD, RT:37.557	KB211013MB
13-Oct-21	16:11:46	Pre modification peak	Sample:7-211009B09, Compound:OCD, RT:37.530	
13-Oct-21	16:11:46	Peak modified	Sample:7-211009B09, Compound:OCD, RT:37.530	KB211013MJ
13-Oct-21	16:11:46	Pre modification peak	Sample:7-211009B09, Compound:OCD, RT:36.841	
13-Oct-21	16:11:46	Peak modified	Sample:7-211009B09, Compound:OCD, RT:36.841	KB211013MJ
13-Oct-21	16:11:46	Pre modification peak	Sample:7-211009B09, Compound:OCD, RT:37.530	
13-Oct-21	16:11:46	Peak modified	Sample:7-211009B09, Compound:OCD, RT:37.530	KB211013MJ
13-Oct-21	16:12:06	Pre modification peak	Sample:7-211009B17, Compound:OCD, RT:36.841	
13-Oct-21	16:12:06	Peak modified	Sample:7-211009B17, Compound:OCD, RT:36.841	KB211013MJ
13-Oct-21	16:12:06	Pre modification peak	Sample:7-211009B17, Compound:OCD, RT:37.522	
13-Oct-21	16:12:06	Peak modified	Sample:7-211009B17, Compound:OCD, RT:37.522	KB211013MJ
13-Oct-21	16:12:25	Pre modification peak	Sample:7-211009B18, Compound:OCD, RT:37.549	
13-Oct-21	16:12:25	Peak modified	Sample:7-211009B18, Compound:OCD, RT:37.549	KB211013MB
13-Oct-21	16:12:25	Pre modification peak	Sample:7-211009B18, Compound:OCD, RT:37.549	
13-Oct-21	16:12:25	Peak modified	Sample:7-211009B18, Compound:OCD, RT:37.549	KB211013MB
13-Oct-21	16:12:50	Peak added	Sample:7-211009B23, Compound:OCD, RT:37.522	KB211013MA
13-Oct-21	16:12:59	Pre modification peak	Sample:7-211009B24, Compound:OCD, RT:37.549	
13-Oct-21	16:12:59	Peak modified	Sample:7-211009B24, Compound:OCD, RT:37.549	KB211013MB
13-Oct-21	16:12:59	Pre modification peak	Sample:7-211009B24, Compound:OCD, RT:37.540	
13-Oct-21	16:12:59	Peak modified	Sample:7-211009B24, Compound:OCD, RT:37.540	KB211013MB
13-Oct-21	16:13:09	Pre modification peak	Sample:7-211009B25, Compound:OCD, RT:37.530	
13-Oct-21	16:13:09	Peak modified	Sample:7-211009B25, Compound:OCD, RT:37.530	KB211013MB
13-Oct-21	16:14:12	Pre modification peak	Sample:7-211009B04, Compound:TF, RT:27.713	
13-Oct-21	16:14:12	Peak modified	Sample:7-211009B04, Compound:TF, RT:27.713	KB211013MB
13-Oct-21	16:14:12	Peak deleted	Sample:7-211009B04, Compound:TF, RT:23.216	KB211013MB
13-Oct-21	16:14:23	Peak deleted	Sample:7-211009B05, Compound:TF, RT:27.859	
13-Oct-21	16:14:32	Peak deleted	Sample:7-211009B06, Compound:TF, RT:23.347	
13-Oct-21	16:14:32	Peak deleted	Sample:7-211009B06, Compound:TF, RT:23.202	
13-Oct-21	16:14:32	Peak deleted	Sample:7-211009B06, Compound:TF, RT:23.158	
13-Oct-21	16:14:32	Peak deleted	Sample:7-211009B06, Compound:TF, RT:22.969	
13-Oct-21	16:14:32	Peak deleted	Sample:7-211009B06, Compound:TF, RT:22.489	
13-Oct-21	16:14:46	Peak deleted	Sample:7-211009B07, Compound:TF, RT:28.732	
13-Oct-21	16:15:04	Peak deleted	Sample:7-211009B08, Compound:TF, RT:23.173	
13-Oct-21	16:15:04	Peak deleted	Sample:7-211009B08, Compound:TF, RT:22.925	

Quantify Audit Report MassLynx MassLynx V4.1 SCN 901

Dataset: I:\Organics Instrument\HIGHRES GCMS Completed Results Files\HR-7\2021\2110\7-211009B-1013KB.qld

Last Altered: Wednesday, October 13, 2021 17:03:31 Eastern Daylight Time
Printed: Thursday, October 14, 2021 10:48:32 Eastern Daylight Time

Date	Time	Event	Details	Comments
13-Oct-21	16:15:04	Peak deleted	Sample:7-211009B08, Compound:TF, RT:22.445	
13-Oct-21	16:15:04	Peak deleted	Sample:7-211009B08, Compound:TF, RT:22.299	
13-Oct-21	16:15:04	Peak deleted	Sample:7-211009B08, Compound:TF, RT:22.052	
13-Oct-21	16:15:04	Peak deleted	Sample:7-211009B08, Compound:TF, RT:27.888	
13-Oct-21	16:15:04	Peak deleted	Sample:7-211009B08, Compound:TF, RT:27.568	
13-Oct-21	16:15:22	Peak deleted	Sample:7-211009B09, Compound:TF, RT:25.647	
13-Oct-21	16:15:22	Peak deleted	Sample:7-211009B09, Compound:TF, RT:22.460	
13-Oct-21	16:15:53	Pre modification peak	Sample:7-211009B14, Compound:TF, RT:24.672	
13-Oct-21	16:15:53	Peak modified	Sample:7-211009B14, Compound:TF, RT:24.672	KB211013MB
13-Oct-21	16:15:53	Pre modification peak	Sample:7-211009B14, Compound:TF, RT:28.150	
13-Oct-21	16:15:53	Peak modified	Sample:7-211009B14, Compound:TF, RT:28.150	KB211013MB
13-Oct-21	16:15:53	Pre modification peak	Sample:7-211009B14, Compound:TF, RT:27.815	
13-Oct-21	16:15:53	Peak modified	Sample:7-211009B14, Compound:TF, RT:27.815	KB211013MB
13-Oct-21	16:15:53	Peak added	Sample:7-211009B14, Compound:TF, RT:25.268	KB211013MB
13-Oct-21	16:16:04	Pre modification peak	Sample:7-211009B14, Compound:TF, RT:26.462	
13-Oct-21	16:16:04	Peak modified	Sample:7-211009B14, Compound:TF, RT:26.462	KB211013MJ
13-Oct-21	16:16:04	Pre modification peak	Sample:7-211009B14, Compound:TF, RT:21.543	
13-Oct-21	16:16:04	Peak modified	Sample:7-211009B14, Compound:TF, RT:21.543	KB211013MJ
13-Oct-21	16:16:27	Peak deleted	Sample:7-211009B15, Compound:TF, RT:27.844	
13-Oct-21	16:16:33	Peak deleted	Sample:7-211009B16, Compound:TF, RT:22.838	
13-Oct-21	16:16:55	Peak deleted	Sample:7-211009B17, Compound:TF, RT:21.543	
13-Oct-21	16:16:55	Peak deleted	Sample:7-211009B17, Compound:TF, RT:21.543	
13-Oct-21	16:16:55	Peak deleted	Sample:7-211009B17, Compound:TF, RT:25.108	
13-Oct-21	16:16:55	Peak deleted	Sample:7-211009B17, Compound:TF, RT:29.387	
13-Oct-21	16:16:55	Peak deleted	Sample:7-211009B17, Compound:TF, RT:23.304	
13-Oct-21	16:17:22	Peak deleted	Sample:7-211009B20, Compound:TF, RT:25.327	
13-Oct-21	16:17:44	Pre modification peak	Sample:7-211009B21, Compound:TF, RT:23.347	
13-Oct-21	16:17:44	Peak modified	Sample:7-211009B21, Compound:TF, RT:23.347	KB211013MB
13-Oct-21	16:17:44	Pre modification peak	Sample:7-211009B21, Compound:TF, RT:23.347	
13-Oct-21	16:17:44	Peak modified	Sample:7-211009B21, Compound:TF, RT:23.347	KB211013MB
13-Oct-21	16:17:56	Peak deleted	Sample:7-211009B22, Compound:TF, RT:26.462	
13-Oct-21	16:18:03	Peak deleted	Sample:7-211009B23, Compound:TF, RT:27.830	
13-Oct-21	16:18:03	Peak deleted	Sample:7-211009B23, Compound:TF, RT:25.705	
13-Oct-21	16:18:12	Peak deleted	Sample:7-211009B24, Compound:TF, RT:25.661	
13-Oct-21	16:18:12	Peak deleted	Sample:7-211009B24, Compound:TF, RT:22.634	
13-Oct-21	16:18:34	Peak deleted	Sample:7-211009B26, Compound:TF, RT:26.462	
13-Oct-21	16:18:34	Peak deleted	Sample:7-211009B26, Compound:TF, RT:22.125	
13-Oct-21	16:18:47	Peak deleted	Sample:7-211009B27, Compound:TF, RT:27.815	
13-Oct-21	16:18:47	Peak deleted	Sample:7-211009B27, Compound:TF, RT:22.649	
13-Oct-21	16:18:47	Peak deleted	Sample:7-211009B27, Compound:TF, RT:22.081	
13-Oct-21	16:19:24	Pre modification peak	Sample:7-211009B04, Compound:PF-f2, RT:29.790	
13-Oct-21	16:19:24	Peak modified	Sample:7-211009B04, Compound:PF-f2, RT:29.790	KB211013MA
13-Oct-21	16:19:24	Pre modification peak	Sample:7-211009B04, Compound:PF-f2, RT:32.143	
13-Oct-21	16:19:24	Peak modified	Sample:7-211009B04, Compound:PF-f2, RT:32.143	KB211013MA
13-Oct-21	16:19:24	Peak added	Sample:7-211009B04, Compound:PF-f2, RT:31.464	KB211013MA
13-Oct-21	16:19:24	Peak added	Sample:7-211009B04, Compound:PF-f2, RT:32.143	KB211013MA
13-Oct-21	16:19:41	Peak deleted	Sample:7-211009B05, Compound:PF-f2, RT:32.361	
13-Oct-21	16:19:41	Peak deleted	Sample:7-211009B05, Compound:PF-f2, RT:31.453	
13-Oct-21	16:19:48	Peak added	Sample:7-211009B05, Compound:PF-f2, RT:32.165	KB211013MA
13-Oct-21	16:19:59	Peak deleted	Sample:7-211009B05, Compound:PF-f2, RT:29.790	
13-Oct-21	16:20:16	Peak deleted	Sample:7-211009B08, Compound:PF-f2, RT:29.790	
13-Oct-21	16:20:53	Peak added	Sample:7-211009B14, Compound:PF-f2, RT:30.731	KB211013MA
13-Oct-21	16:20:53	Peak added	Sample:7-211009B14, Compound:PF-f2, RT:30.840	KB211013MA

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Dataset: I:\Organics Instrument\HIGHRES GCMS Completed Results Files\HR-7\2021\2110\7-211009B-1013KB.qld

Last Altered: Wednesday, October 13, 2021 17:03:31 Eastern Daylight Time
Printed: Thursday, October 14, 2021 10:48:32 Eastern Daylight Time

Date	Time	Event	Details	Comments
13-Oct-21	16:20:53	Peak added	Sample:7-211009B14, Compound:PF-f2, RT:30.906	KB211013MA
13-Oct-21	16:20:53	Peak deleted	Sample:7-211009B14, Compound:PF-f2, RT:29.790	KB211013MA
13-Oct-21	16:20:53	Pre modification peak	Sample:7-211009B14, Compound:PF-f2, RT:30.731	
13-Oct-21	16:20:53	Peak modified	Sample:7-211009B14, Compound:PF-f2, RT:30.731	KB211013MA
13-Oct-21	16:20:53	Peak deleted	Sample:7-211009B14, Compound:PF-f2, RT:29.790	KB211013MA
13-Oct-21	16:21:08	Pre modification peak	Sample:7-211009B14, Compound:PF-f2, RT:31.519	
13-Oct-21	16:21:08	Peak modified	Sample:7-211009B14, Compound:PF-f2, RT:31.519	KB211013MB
13-Oct-21	16:21:08	Pre modification peak	Sample:7-211009B14, Compound:PF-f2, RT:32.208	
13-Oct-21	16:21:08	Peak modified	Sample:7-211009B14, Compound:PF-f2, RT:32.208	KB211013MB
13-Oct-21	16:21:08	Pre modification peak	Sample:7-211009B14, Compound:PF-f2, RT:31.530	
13-Oct-21	16:21:08	Peak modified	Sample:7-211009B14, Compound:PF-f2, RT:31.530	KB211013MB
13-Oct-21	16:21:34	Pre modification peak	Sample:7-211009B15, Compound:PF-f2, RT:31.453	
13-Oct-21	16:21:34	Peak modified	Sample:7-211009B15, Compound:PF-f2, RT:31.453	KB211013MB
13-Oct-21	16:22:08	Peak deleted	Sample:7-211009B16, Compound:PF-f2, RT:30.775	KB211013MB
13-Oct-21	16:22:08	Pre modification peak	Sample:7-211009B16, Compound:PF-f2, RT:31.453	
13-Oct-21	16:22:08	Peak modified	Sample:7-211009B16, Compound:PF-f2, RT:31.453	KB211013MB
13-Oct-21	16:22:34	Pre modification peak	Sample:7-211009B17, Compound:PF-f2, RT:31.464	
13-Oct-21	16:22:34	Peak modified	Sample:7-211009B17, Compound:PF-f2, RT:31.464	KB211013MB
13-Oct-21	16:22:34	Peak added	Sample:7-211009B17, Compound:PF-f2, RT:32.165	KB211013MB
13-Oct-21	16:22:46	Peak deleted	Sample:7-211009B19, Compound:PF-f2, RT:31.464	
13-Oct-21	16:22:59	Peak added	Sample:7-211009B20, Compound:PF-f2, RT:31.497	KB211013MA
13-Oct-21	16:23:11	Pre modification peak	Sample:7-211009B21, Compound:PF-f2, RT:31.771	
13-Oct-21	16:23:11	Peak modified	Sample:7-211009B21, Compound:PF-f2, RT:31.771	KB211013MB
13-Oct-21	16:24:10	Peak added	Sample:7-211009B22, Compound:PF-f2, RT:31.475	KB211013MA
13-Oct-21	16:24:10	Peak added	Sample:7-211009B22, Compound:PF-f2, RT:31.760	KB211013MA
13-Oct-21	16:24:16	Peak modified	Sample:7-211009B22, Compound:PF-f2, RT:29.790	
13-Oct-21	16:24:35	Pre modification peak	Sample:7-211009B23, Compound:PF-f2, RT:31.453	
13-Oct-21	16:24:35	Peak modified	Sample:7-211009B23, Compound:PF-f2, RT:31.453	KB211013MB
13-Oct-21	16:24:35	Pre modification peak	Sample:7-211009B23, Compound:PF-f2, RT:31.442	
13-Oct-21	16:24:35	Peak modified	Sample:7-211009B23, Compound:PF-f2, RT:31.442	KB211013MB
13-Oct-21	16:24:47	Pre modification peak	Sample:7-211009B24, Compound:PF-f2, RT:31.486	
13-Oct-21	16:24:47	Peak modified	Sample:7-211009B24, Compound:PF-f2, RT:31.486	KB211013MB
13-Oct-21	16:24:47	Pre modification peak	Sample:7-211009B24, Compound:PF-f2, RT:29.790	
13-Oct-21	16:24:47	Peak modified	Sample:7-211009B24, Compound:PF-f2, RT:29.790	KB211013MB
13-Oct-21	16:25:07	Peak added	Sample:7-211009B25, Compound:PF-f2, RT:31.475	KB211013MB
13-Oct-21	16:26:01	Pre modification peak	Sample:7-211009B08, Compound:HXF, RT:32.893	
13-Oct-21	16:26:01	Peak modified	Sample:7-211009B08, Compound:HXF, RT:32.893	KB211013MB
13-Oct-21	16:26:01	Pre modification peak	Sample:7-211009B08, Compound:HXF, RT:34.664	
13-Oct-21	16:26:01	Peak modified	Sample:7-211009B08, Compound:HXF, RT:34.664	KB211013MB
13-Oct-21	16:26:01	Pre modification peak	Sample:7-211009B08, Compound:HXF, RT:34.664	
13-Oct-21	16:26:01	Peak modified	Sample:7-211009B08, Compound:HXF, RT:34.664	KB211013MB
13-Oct-21	16:26:01	Peak added	Sample:7-211009B08, Compound:HXF, RT:33.890	KB211013MB
13-Oct-21	16:26:13	Peak added	Sample:7-211009B09, Compound:HXF, RT:34.674	KB211013MA
13-Oct-21	16:26:51	Pre modification peak	Sample:7-211009B14, Compound:HXF, RT:34.728	
13-Oct-21	16:26:51	Peak modified	Sample:7-211009B14, Compound:HXF, RT:34.728	KB211013MB
13-Oct-21	16:26:51	Pre modification peak	Sample:7-211009B14, Compound:HXF, RT:34.738	
13-Oct-21	16:26:51	Peak modified	Sample:7-211009B14, Compound:HXF, RT:34.738	KB211013MB
13-Oct-21	16:27:11	Pre modification peak	Sample:7-211009B15, Compound:HXF, RT:34.685	
13-Oct-21	16:27:11	Peak modified	Sample:7-211009B15, Compound:HXF, RT:34.685	KB211013MB
13-Oct-21	16:27:11	Pre modification peak	Sample:7-211009B15, Compound:HXF, RT:34.685	
13-Oct-21	16:27:11	Peak modified	Sample:7-211009B15, Compound:HXF, RT:34.685	KB211013MB
13-Oct-21	16:27:48	Pre modification peak	Sample:7-211009B16, Compound:HXF, RT:33.868	
13-Oct-21	16:27:48	Peak modified	Sample:7-211009B16, Compound:HXF, RT:33.868	KB211013MA

Quantify Audit Report MassLynx MassLynx V4.1 SCN 901

Dataset: I:\Organics Instrument\HIGHRES GCMS Completed Results Files\HR-7\2021\2110\7-211009B-1013KB.qld

Last Altered: Wednesday, October 13, 2021 17:03:31 Eastern Daylight Time
Printed: Thursday, October 14, 2021 10:48:32 Eastern Daylight Time

Date	Time	Event	Details	Comments
13-Oct-21	16:27:48	Pre modification peak	Sample:7-211009B16, Compound:HXF, RT:33.275	
13-Oct-21	16:27:48	Peak modified	Sample:7-211009B16, Compound:HXF, RT:33.275	KB211013MA
13-Oct-21	16:27:48	Peak added	Sample:7-211009B16, Compound:HXF, RT:33.953	KB211013MA
13-Oct-21	16:28:16	Pre modification peak	Sample:7-211009B17, Compound:HXF, RT:34.674	
13-Oct-21	16:28:16	Peak modified	Sample:7-211009B17, Compound:HXF, RT:34.674	KB211013MA
13-Oct-21	16:28:16	Peak added	Sample:7-211009B17, Compound:HXF, RT:33.943	KB211013MA
13-Oct-21	16:28:31	Peak deleted	Sample:7-211009B18, Compound:HXF, RT:33.858	
13-Oct-21	16:28:44	Peak added	Sample:7-211009B20, Compound:HXF, RT:34.324	KB211013MA
13-Oct-21	16:28:44	Peak added	Sample:7-211009B20, Compound:HXF, RT:34.335	KB211013MA
13-Oct-21	16:28:56	Peak added	Sample:7-211009B21, Compound:HXF, RT:34.250	KB211013MA
13-Oct-21	16:28:56	Peak added	Sample:7-211009B21, Compound:HXF, RT:34.261	KB211013MA
13-Oct-21	16:29:16	Pre modification peak	Sample:7-211009B22, Compound:HXF, RT:34.717	
13-Oct-21	16:29:16	Peak modified	Sample:7-211009B22, Compound:HXF, RT:34.717	KB211013MB
13-Oct-21	16:29:36	Pre modification peak	Sample:7-211009B25, Compound:HXF, RT:34.674	
13-Oct-21	16:29:36	Peak modified	Sample:7-211009B25, Compound:HXF, RT:34.674	KB211013MB
13-Oct-21	16:29:36	Pre modification peak	Sample:7-211009B25, Compound:HXF, RT:34.674	
13-Oct-21	16:29:36	Peak modified	Sample:7-211009B25, Compound:HXF, RT:34.674	KB211013MB
13-Oct-21	16:29:50	Pre modification peak	Sample:7-211009B26, Compound:HXF, RT:34.218	
13-Oct-21	16:29:50	Peak modified	Sample:7-211009B26, Compound:HXF, RT:34.218	KB211013MB
13-Oct-21	16:29:50	Pre modification peak	Sample:7-211009B26, Compound:HXF, RT:33.996	
13-Oct-21	16:29:50	Peak modified	Sample:7-211009B26, Compound:HXF, RT:33.996	KB211013MB
13-Oct-21	16:33:51	Pre modification peak	Sample:7-211009B10, Compound:HPF, RT:35.863	
13-Oct-21	16:33:51	Peak modified	Sample:7-211009B10, Compound:HPF, RT:35.863	KB211013MJ
13-Oct-21	16:33:51	Pre modification peak	Sample:7-211009B10, Compound:HPF, RT:35.710	
13-Oct-21	16:33:51	Peak modified	Sample:7-211009B10, Compound:HPF, RT:35.710	KB211013MJ
13-Oct-21	16:34:06	Pre modification peak	Sample:7-211009B16, Compound:HPF, RT:35.458	
13-Oct-21	16:34:06	Peak modified	Sample:7-211009B16, Compound:HPF, RT:35.458	KB211013MB
13-Oct-21	16:34:24	Peak added	Sample:7-211009B19, Compound:HPF, RT:35.447	KB211013MA
13-Oct-21	16:34:48	Peak added	Sample:7-211009B24, Compound:HPF, RT:35.447	KB211013MA
13-Oct-21	16:35:17	Peak added	Sample:7-211009B05, Compound:OCF, RT:37.665	KB211013MA
13-Oct-21	16:35:17	Pre modification peak	Sample:7-211009B05, Compound:OCF, RT:37.647	
13-Oct-21	16:35:17	Peak modified	Sample:7-211009B05, Compound:OCF, RT:37.647	KB211013MA
13-Oct-21	16:35:30	Pre modification peak	Sample:7-211009B07, Compound:OCF, RT:37.629	
13-Oct-21	16:35:30	Peak modified	Sample:7-211009B07, Compound:OCF, RT:37.629	KB211013MB
13-Oct-21	16:35:37	Pre modification peak	Sample:7-211009B08, Compound:OCF, RT:37.647	
13-Oct-21	16:35:37	Peak modified	Sample:7-211009B08, Compound:OCF, RT:37.647	KB211013MB
13-Oct-21	16:35:54	Pre modification peak	Sample:7-211009B10, Compound:OCF, RT:36.841	
13-Oct-21	16:35:54	Peak modified	Sample:7-211009B10, Compound:OCF, RT:36.841	KB211013MJ
13-Oct-21	16:35:54	Pre modification peak	Sample:7-211009B10, Compound:OCF, RT:37.638	
13-Oct-21	16:35:54	Peak modified	Sample:7-211009B10, Compound:OCF, RT:37.638	KB211013MJ
13-Oct-21	16:35:54	Pre modification peak	Sample:7-211009B10, Compound:OCF, RT:37.629	
13-Oct-21	16:35:54	Peak modified	Sample:7-211009B10, Compound:OCF, RT:37.629	KB211013MJ
13-Oct-21	16:35:54	Pre modification peak	Sample:7-211009B10, Compound:OCF, RT:37.710	
13-Oct-21	16:35:54	Peak modified	Sample:7-211009B10, Compound:OCF, RT:37.710	KB211013MJ
13-Oct-21	16:36:06	Peak deleted	Sample:7-211009B14, Compound:OCF, RT:37.745	KB211013MJ
13-Oct-21	16:36:06	Pre modification peak	Sample:7-211009B14, Compound:OCF, RT:37.683	
13-Oct-21	16:36:06	Peak modified	Sample:7-211009B14, Compound:OCF, RT:37.683	KB211013MJ
13-Oct-21	16:36:16	Pre modification peak	Sample:7-211009B16, Compound:OCF, RT:37.629	
13-Oct-21	16:36:16	Peak modified	Sample:7-211009B16, Compound:OCF, RT:37.629	KB211013MB
13-Oct-21	16:36:30	Peak added	Sample:7-211009B18, Compound:OCF, RT:37.647	KB211013MB
13-Oct-21	16:36:51	Pre modification peak	Sample:7-211009B21, Compound:OCF, RT:36.841	
13-Oct-21	16:36:51	Peak modified	Sample:7-211009B21, Compound:OCF, RT:36.841	KB211013MJ
13-Oct-21	16:36:51	Pre modification peak	Sample:7-211009B21, Compound:OCF, RT:37.611	

Quantify Audit Report MassLynx MassLynx V4.1 SCN 901

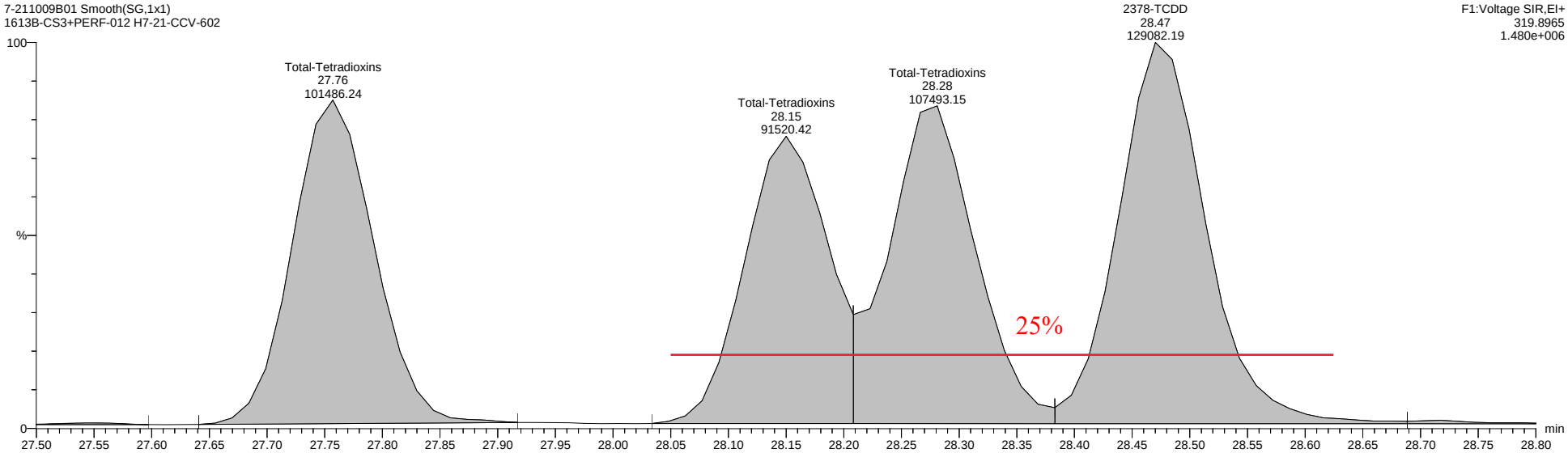
Dataset: I:\Organics Instrument\HIGHRES GCMS Completed Results Files\HR-7\2021\2110\7-211009B-1013KB.qld

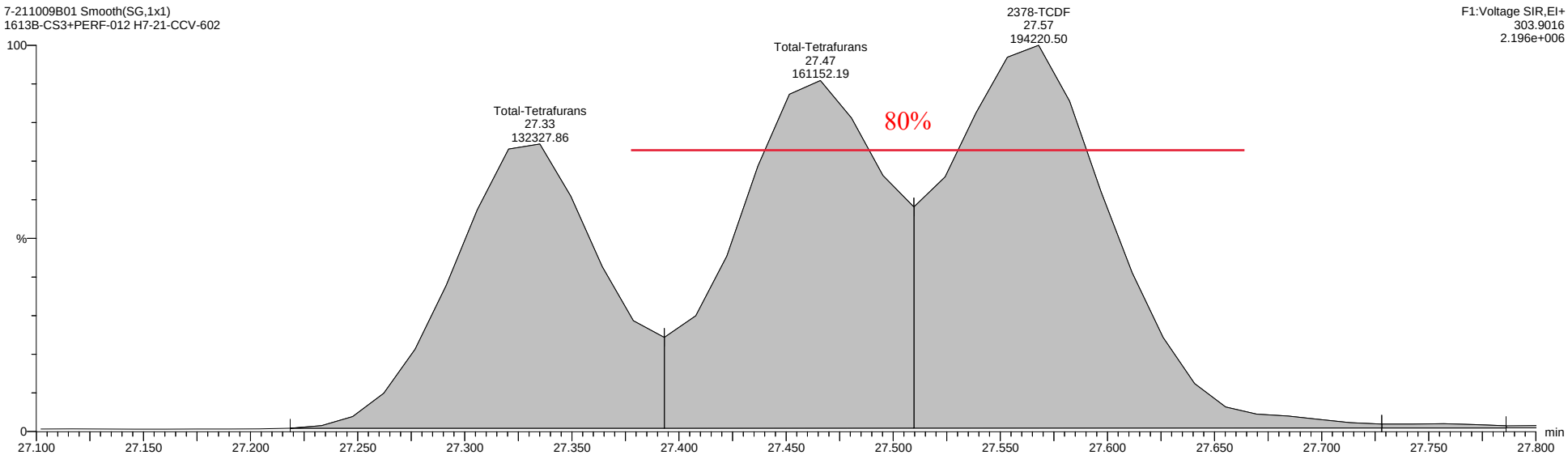
Last Altered: Wednesday, October 13, 2021 17:03:31 Eastern Daylight Time
Printed: Thursday, October 14, 2021 10:48:32 Eastern Daylight Time

Date	Time	Event	Details	Comments
13-Oct-21	16:36:51	Peak modified	Sample:7-211009B21, Compound:OCF, RT:37.611	KB211013MJ
13-Oct-21	16:37:01	Pre modification peak	Sample:7-211009B22, Compound:OCF, RT:37.674	
13-Oct-21	16:37:01	Peak modified	Sample:7-211009B22, Compound:OCF, RT:37.674	KB211013MA
13-Oct-21	16:37:01	Peak added	Sample:7-211009B22, Compound:OCF, RT:37.665	KB211013MA
13-Oct-21	16:38:40	Pre modification peak	Sample:7-211009B23, Compound:OCF, RT:37.629	
13-Oct-21	16:38:40	Peak modified	Sample:7-211009B23, Compound:OCF, RT:37.629	KB211013MA
13-Oct-21	16:38:40	Peak added	Sample:7-211009B23, Compound:OCF, RT:37.620	KB211013MA
13-Oct-21	16:38:55	Pre modification peak	Sample:7-211009B24, Compound:OCF, RT:36.841	
13-Oct-21	16:38:55	Peak modified	Sample:7-211009B24, Compound:OCF, RT:36.841	KB211013MJ
13-Oct-21	16:38:55	Pre modification peak	Sample:7-211009B24, Compound:OCF, RT:37.629	
13-Oct-21	16:38:55	Peak modified	Sample:7-211009B24, Compound:OCF, RT:37.629	KB211013MJ
13-Oct-21	16:38:55	Pre modification peak	Sample:7-211009B24, Compound:OCF, RT:37.647	
13-Oct-21	16:38:55	Peak modified	Sample:7-211009B24, Compound:OCF, RT:37.647	KB211013MJ
13-Oct-21	16:39:10	Peak deleted	Sample:7-211009B26, Compound:OCF, RT:37.718	KB211013MJ
13-Oct-21	16:39:10	Pre modification peak	Sample:7-211009B26, Compound:OCF, RT:37.629	
13-Oct-21	16:39:10	Peak modified	Sample:7-211009B26, Compound:OCF, RT:37.629	KB211013MJ
13-Oct-21	16:39:17	Dataset Saved	Saved to 'I:\Organics Instrument\HIGHRES GCMS Complete...	
13-Oct-21	17:03:28	Method modified		
13-Oct-21	17:03:31	Process Quantify		
13-Oct-21	17:11:14	Dataset Saved	Saved to 'I:\Organics Instrument\HIGHRES GCMS Complete...	

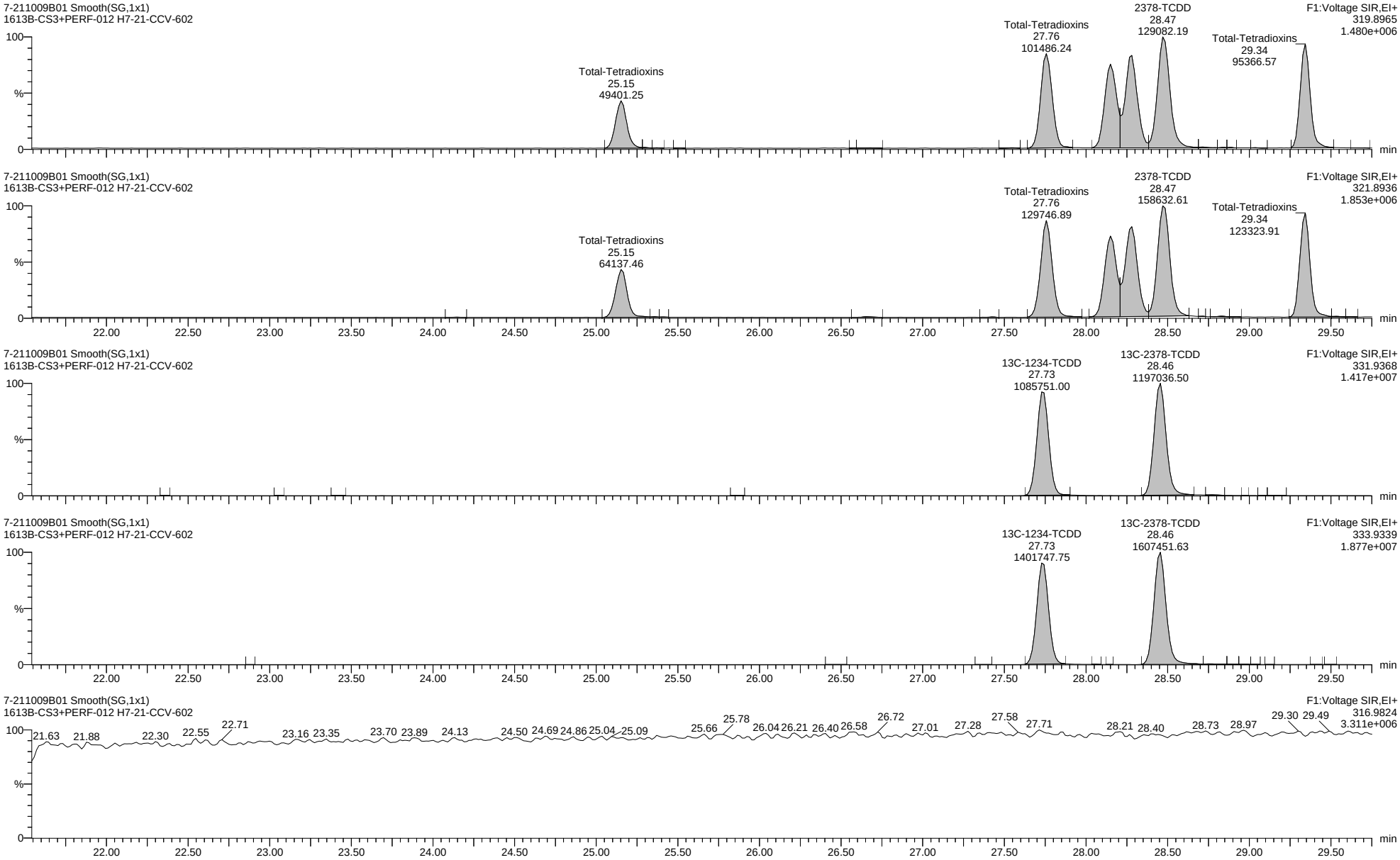
Method: C:\MassLynx\Dioxin.PRO\MethDB\Dioxin_1613B.mdb 30 Aug 2021 12:17:57
Calibration: C:\MassLynx\Dioxin.PRO\CurveDB\7-210611A-CAL5-1613.cdb 14 Jun 2021 09:35:05

Name: 7-211009B01, Date: 09-Oct-2021, Time: 11:26:52, ID: H7-21-CCV-602, Description: 1613B-CS3+PERF-012, Vial: Tray1:1

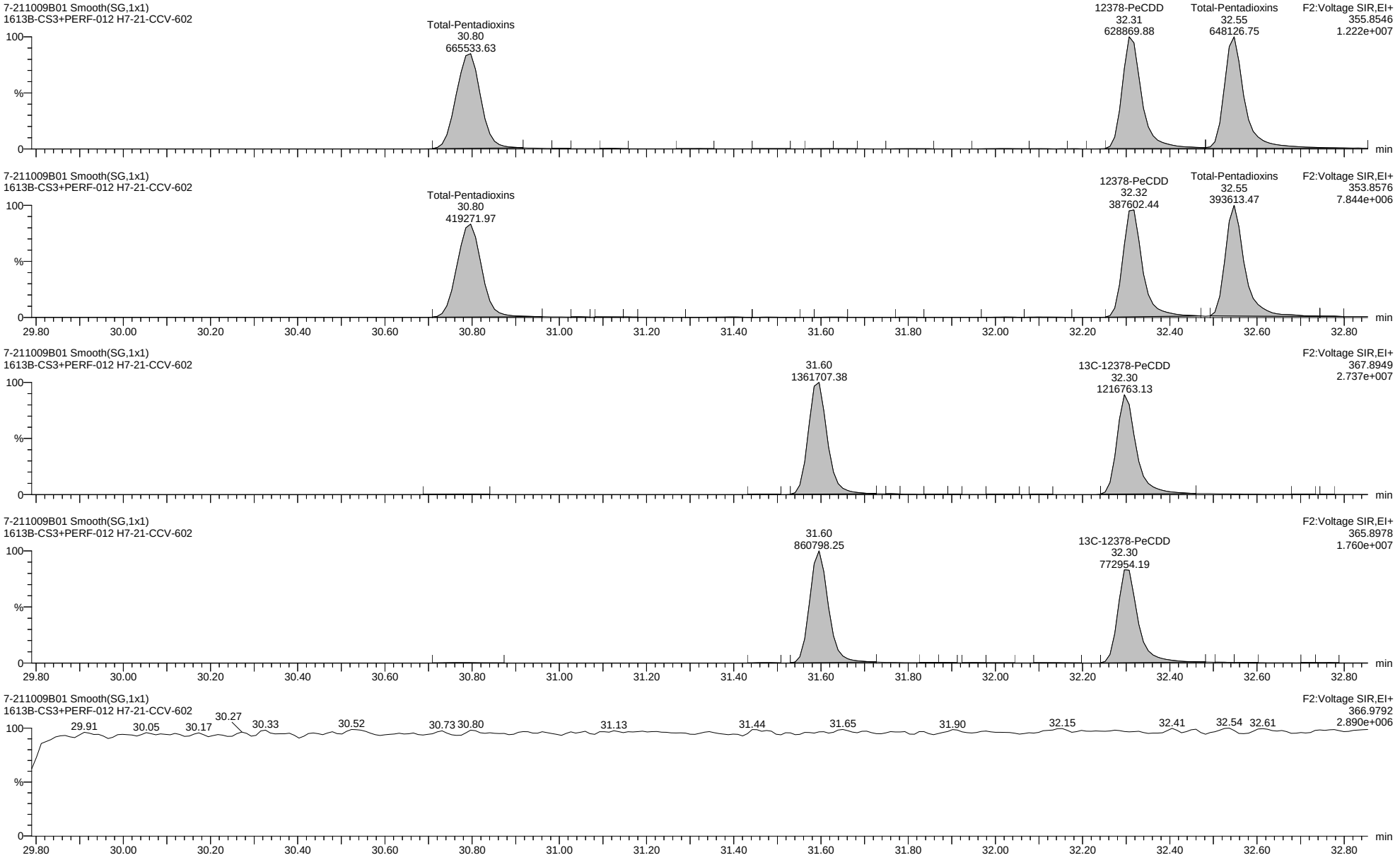




Name: 7-211009B01, Date: 09-Oct-2021, Time: 11:26:52, ID: H7-21-CCV-602, Description: 1613B-CS3+PERF-012, Vial: Tray1:1



Name: 7-211009B01, Date: 09-Oct-2021, Time: 11:26:52, ID: H7-21-CCV-602, Description: 1613B-CS3+PERF-012, Vial: Tray1:1



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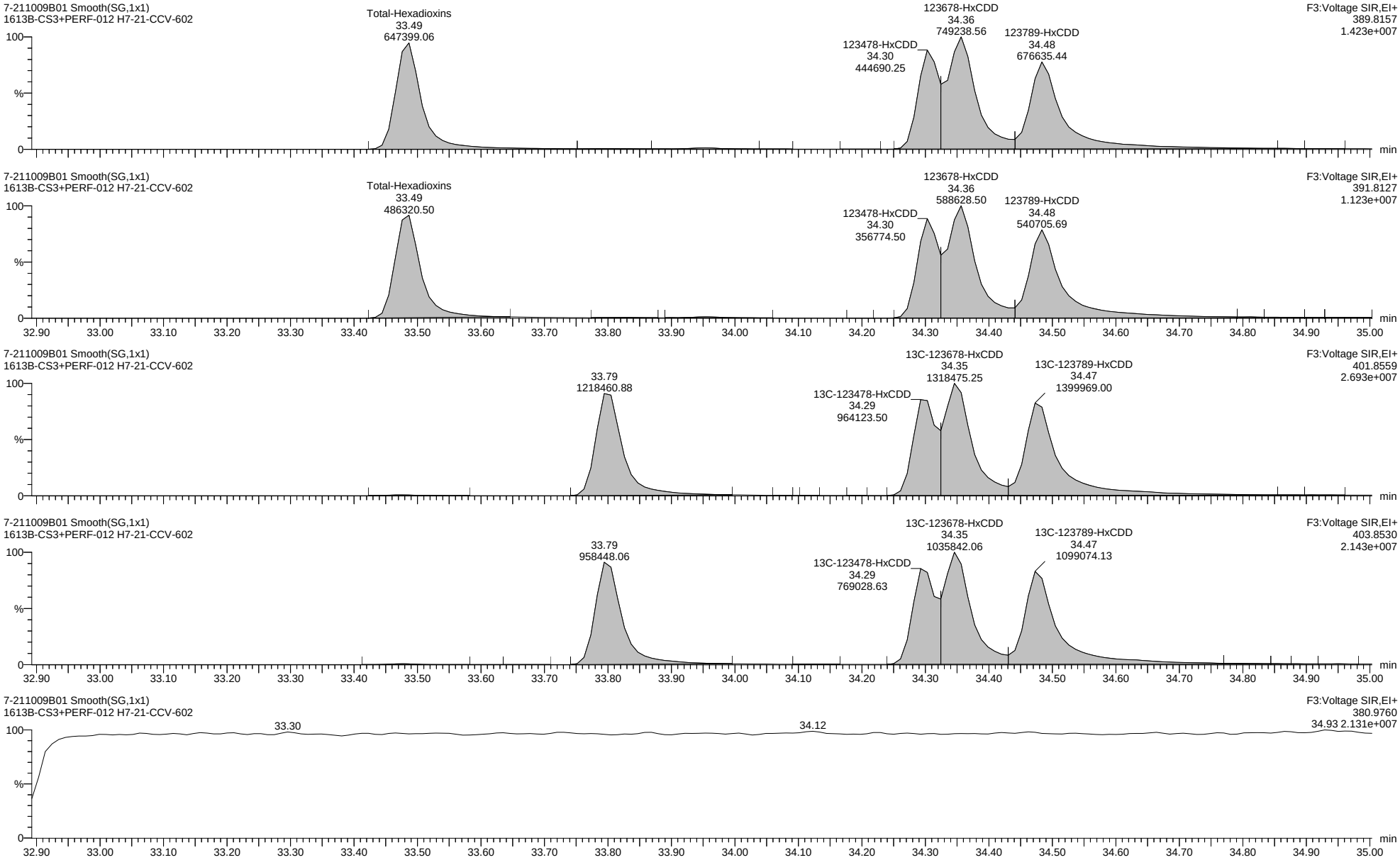

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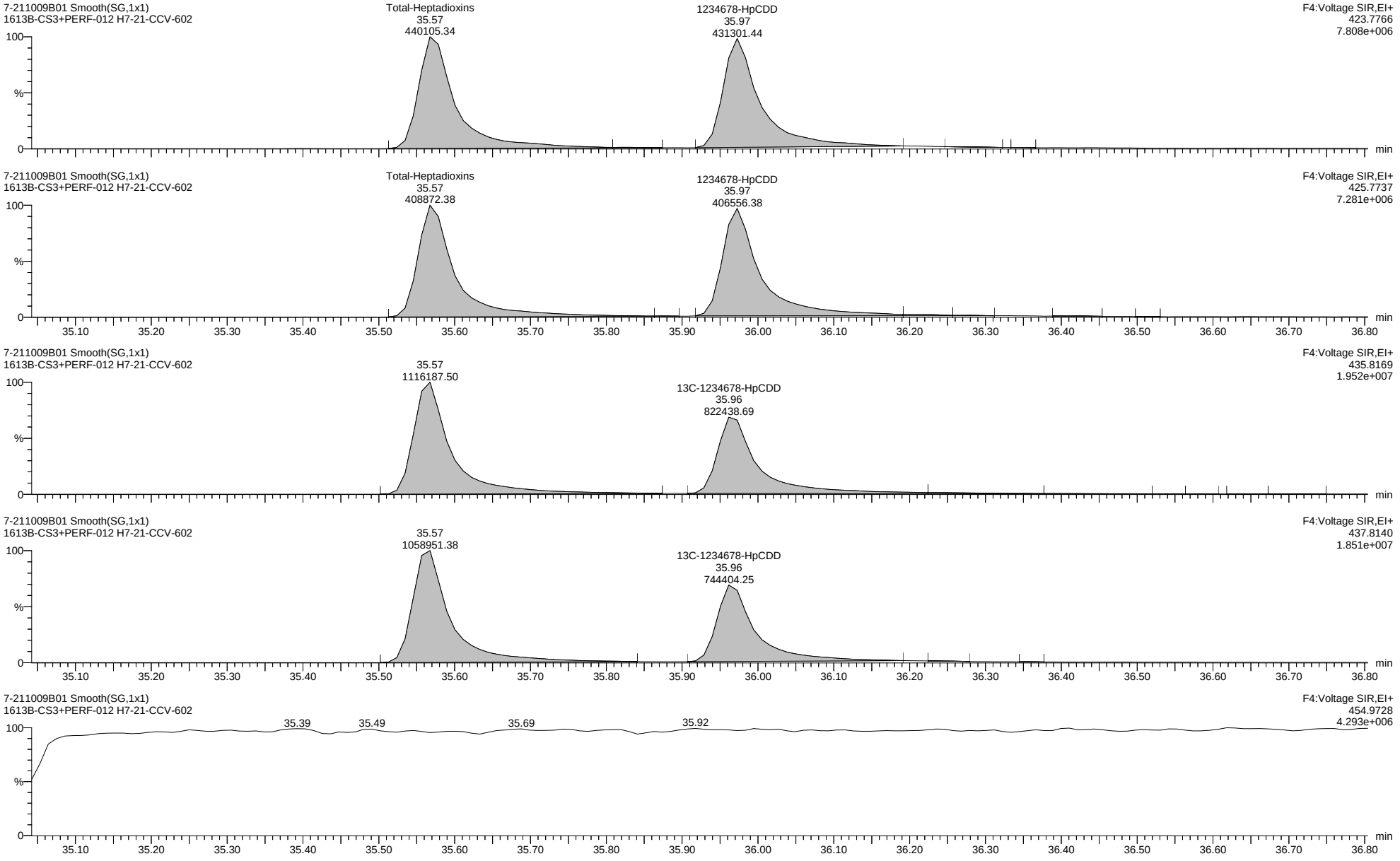

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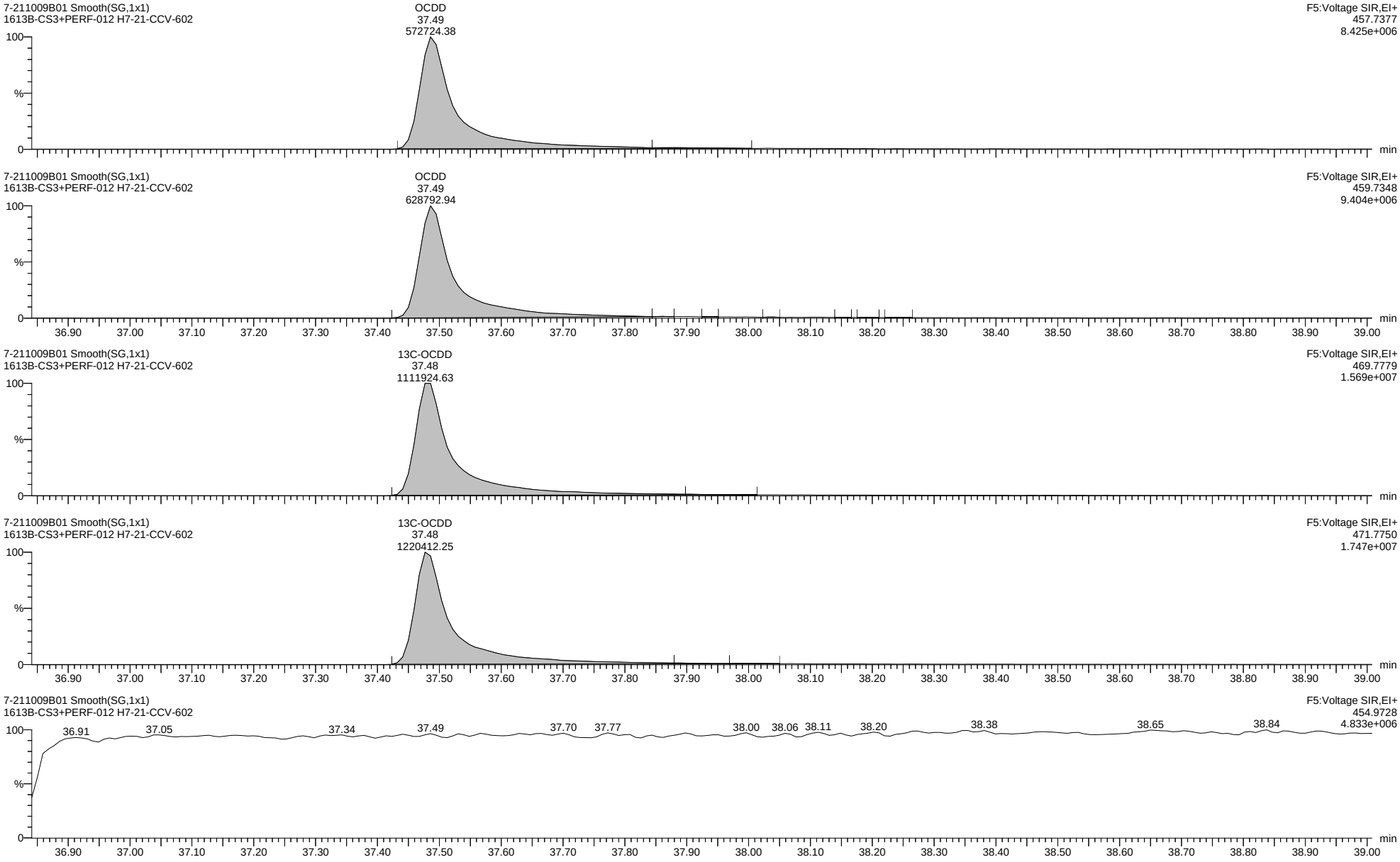

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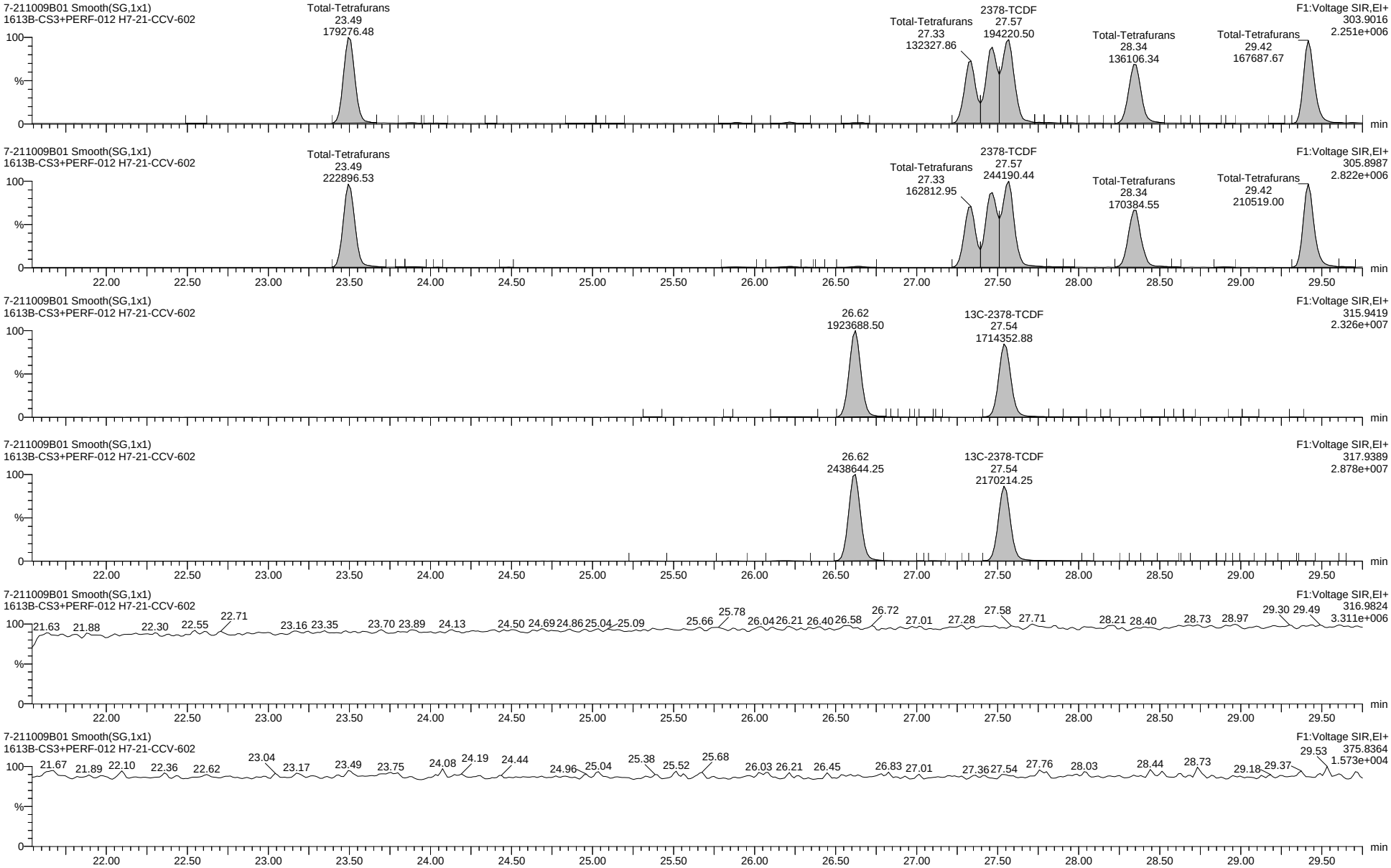

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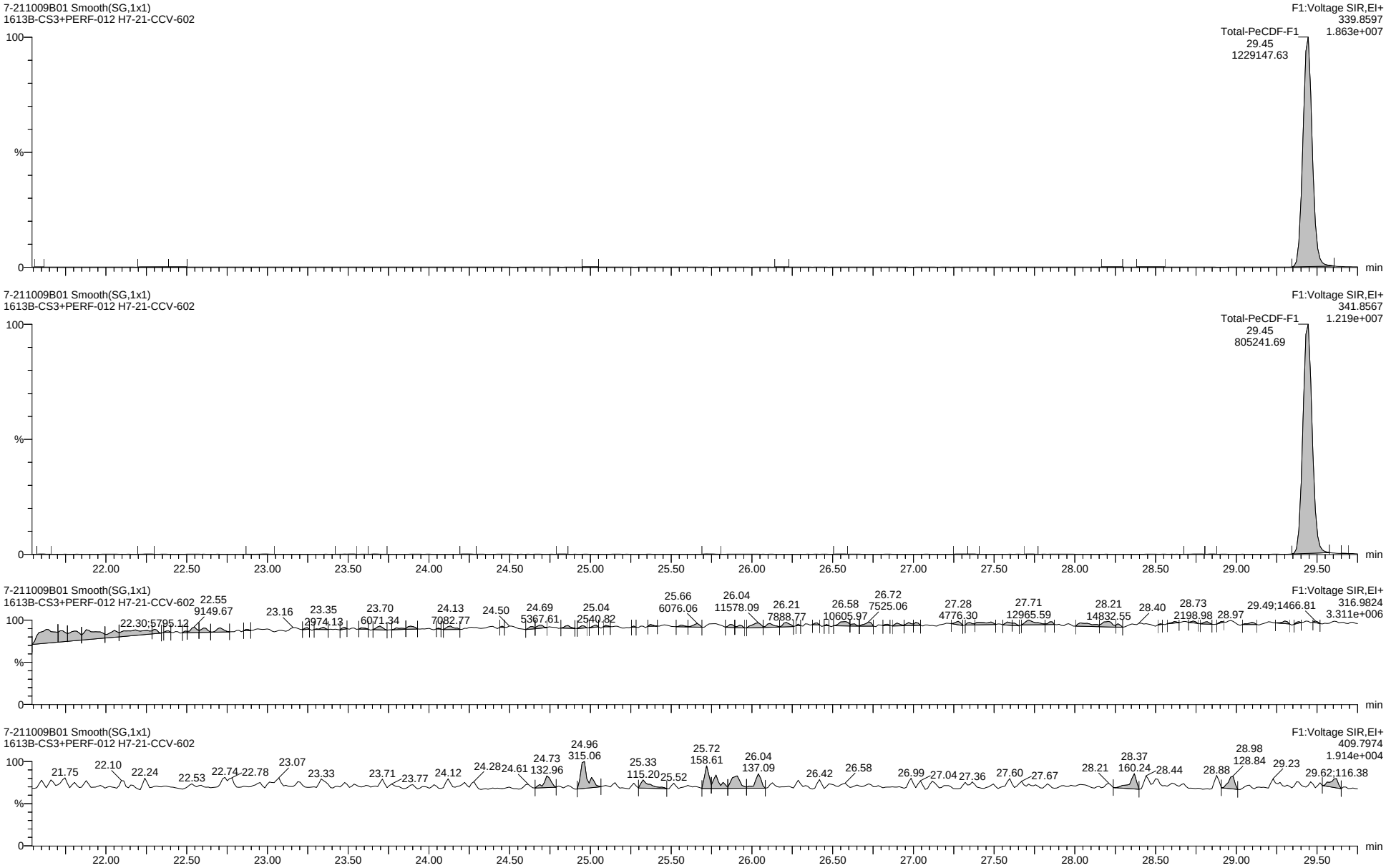

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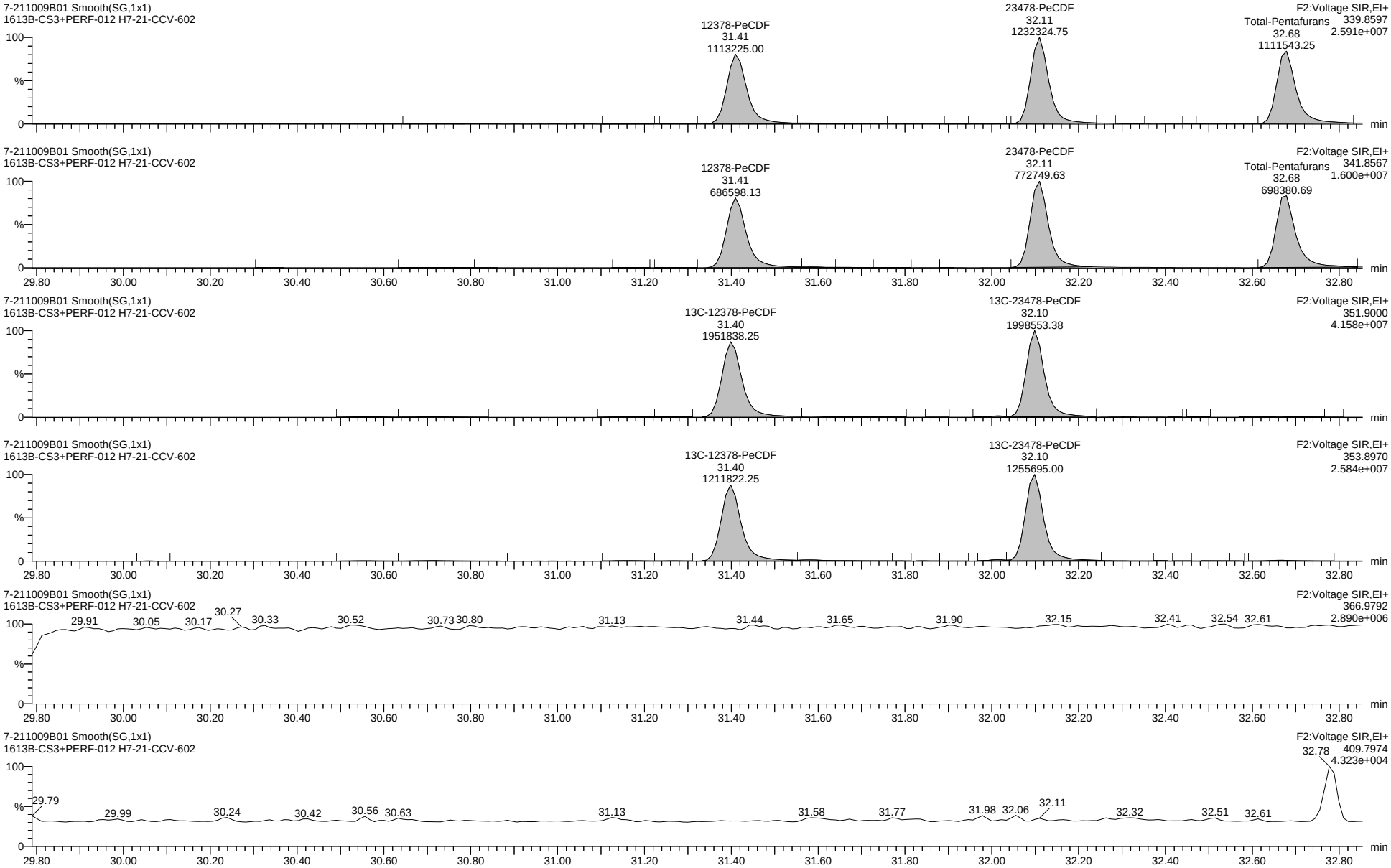

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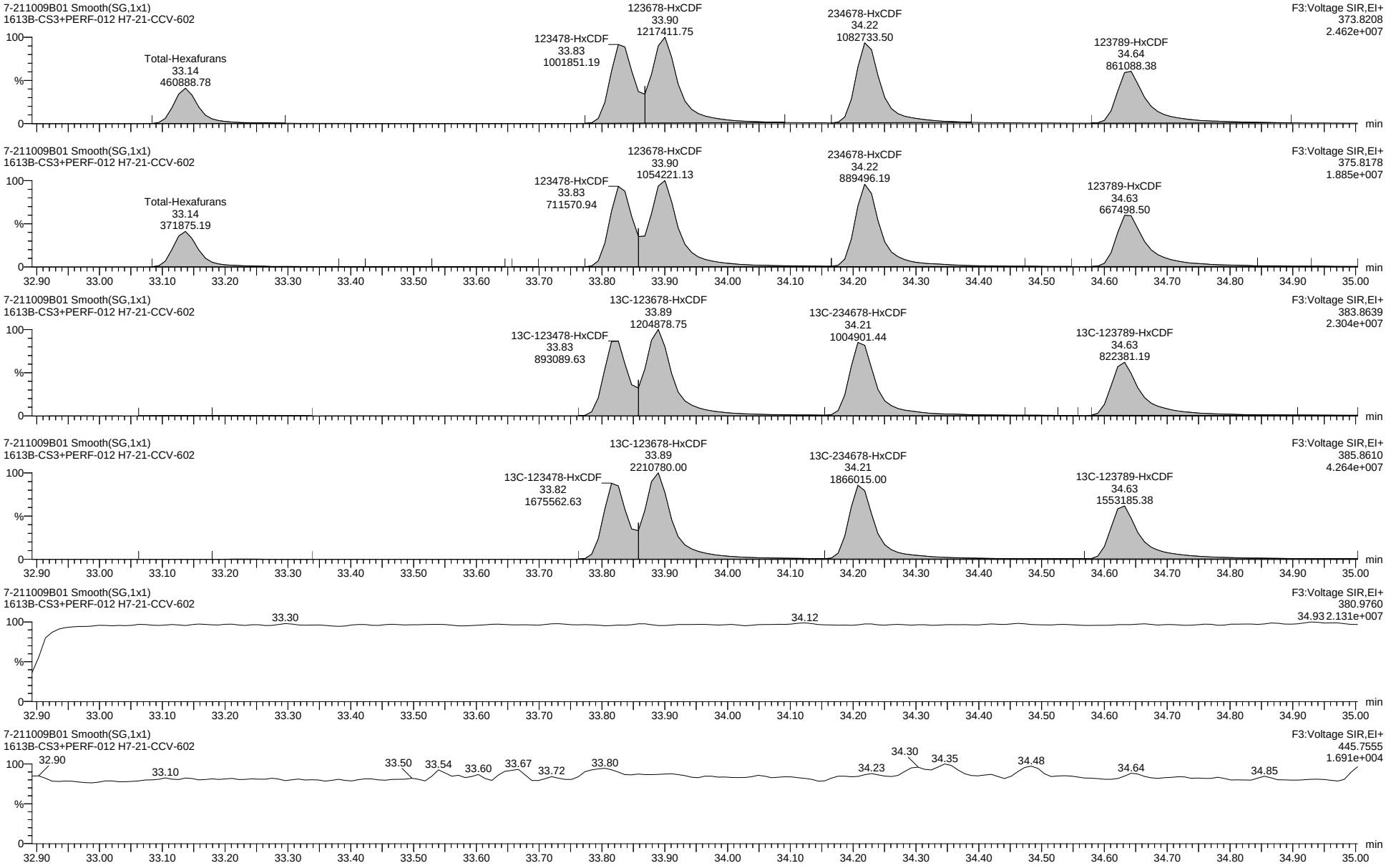
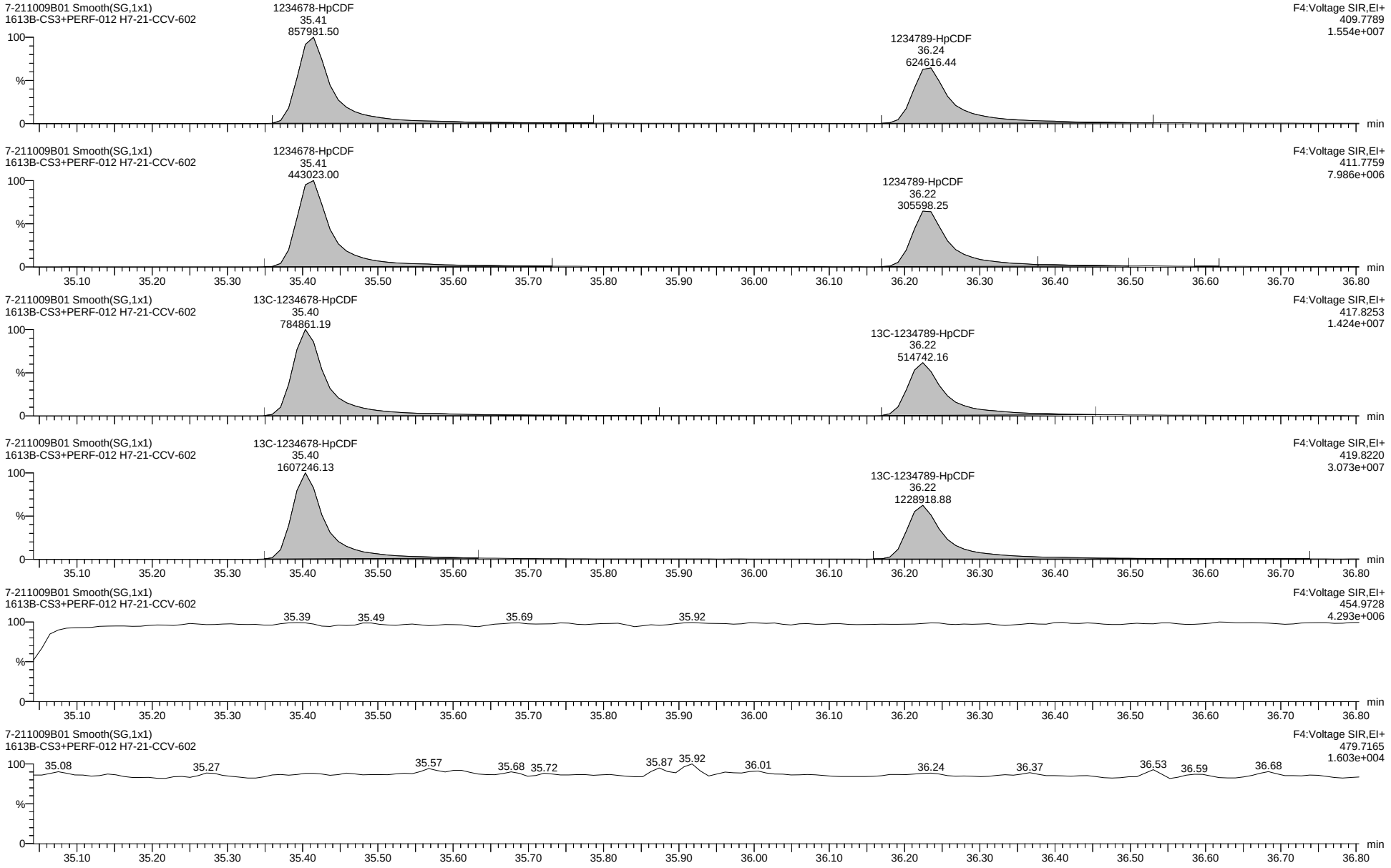


Quantify Sample Template Report **MassLynx MassLynx V4.1 SCN 901**

Dataset: I:\Organics Instrument\HIGHRES GCMS Completed Results Files\HR-7\2021\2110\7-211009B-1013KB.qld

Last Altered: Wednesday, October 13, 2021 17:03:31 Eastern Daylight Time
Printed: Thursday, October 14, 2021 10:48:32 Eastern Daylight Time

Name: 7-211009B01, Date: 09-Oct-2021, Time: 11:26:52, ID: H7-21-CCV-602, Description: 1613B-CS3+PERF-012, Vial: Tray1:1



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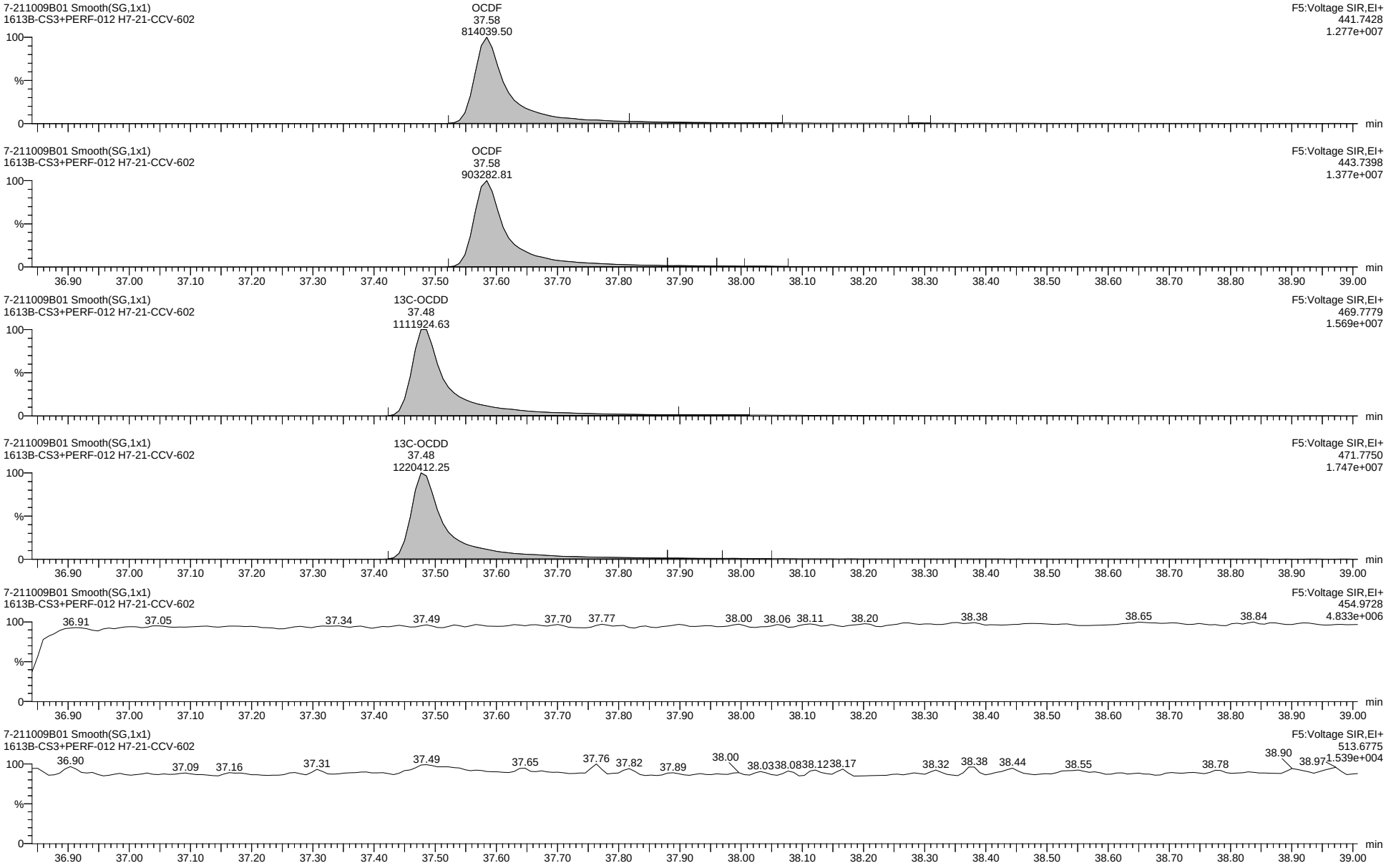

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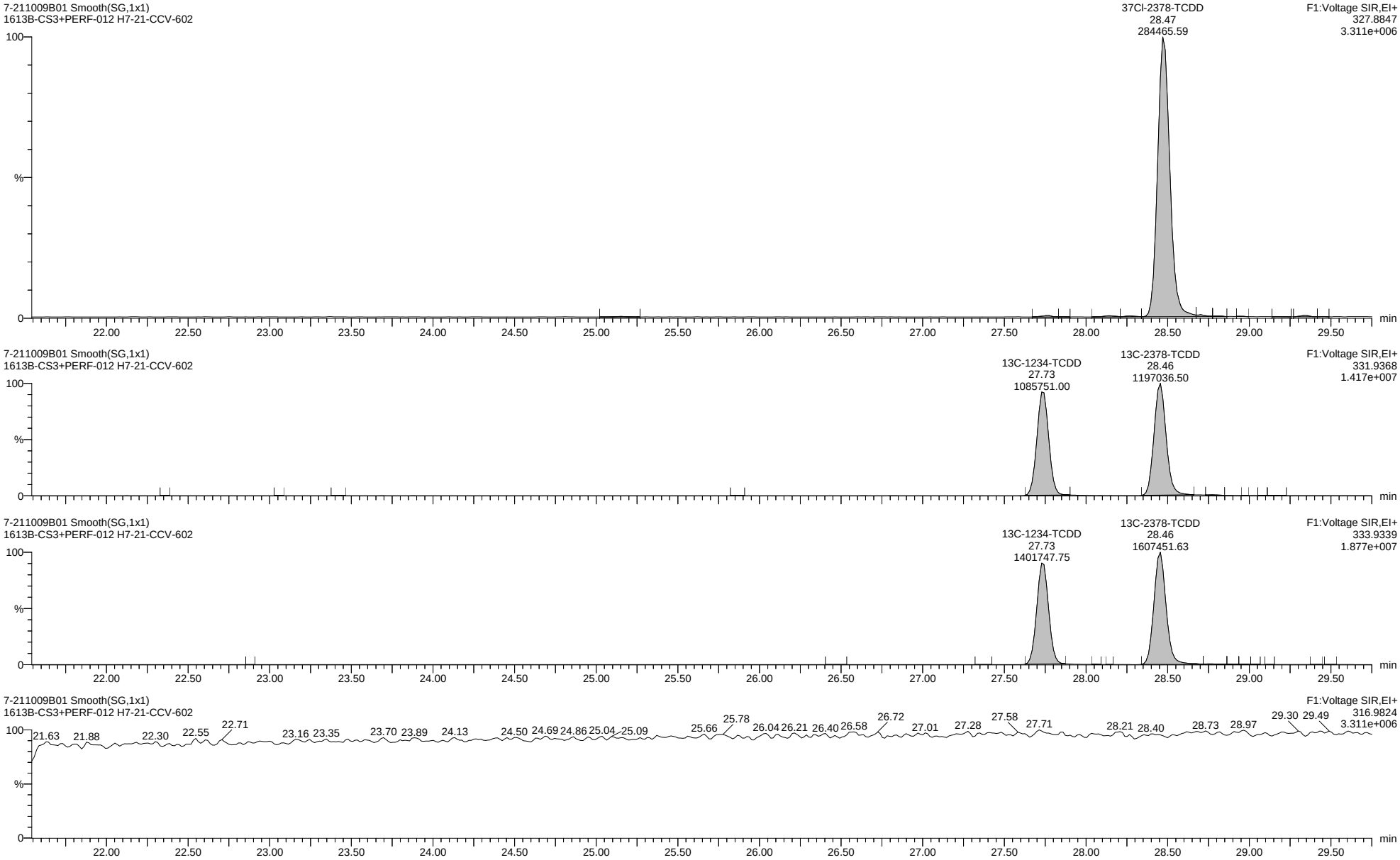
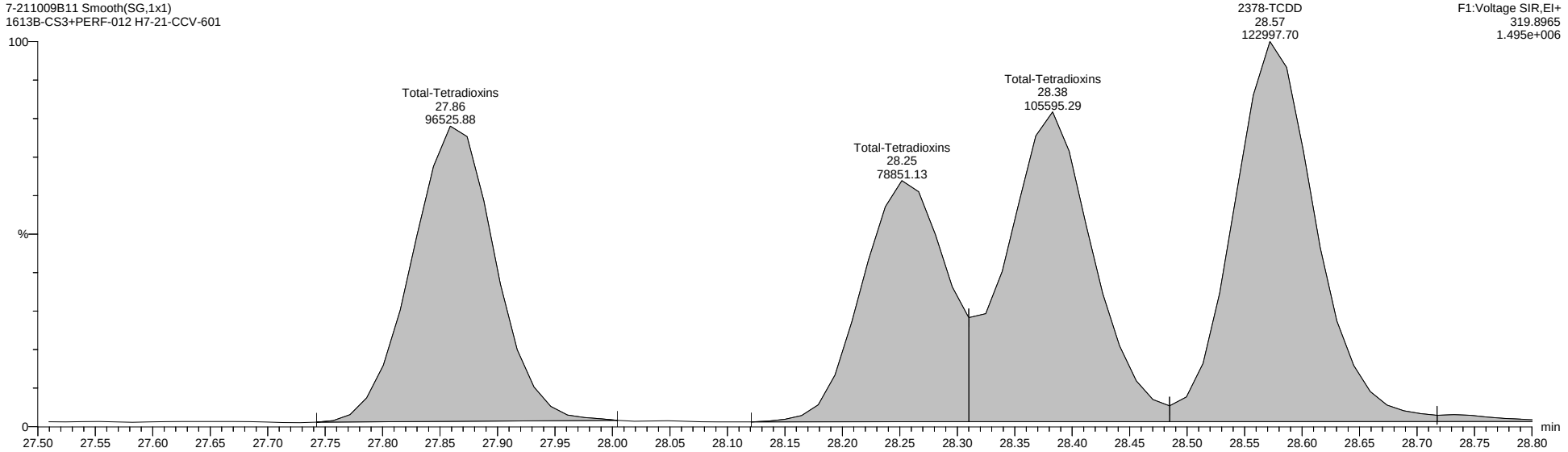


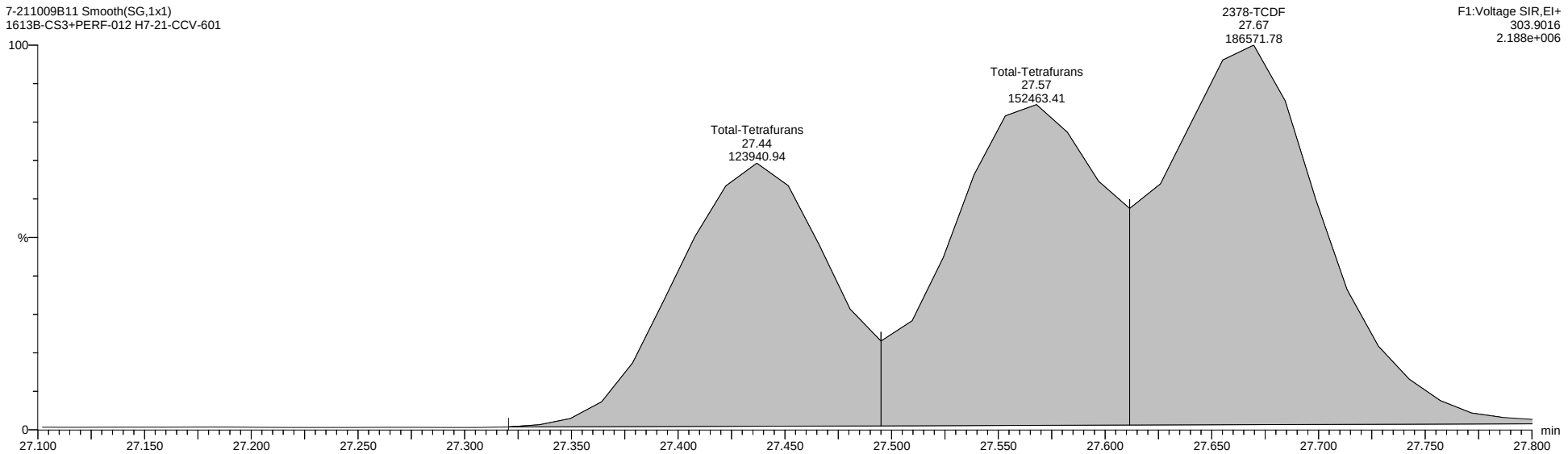
Dataset: I:\Organics Instrument\HIGHRES GCMS Completed Results Files\HR-7\2021\2110\7-211009B-1013KB.qld

Last Altered: Wednesday, October 13, 2021 17:03:31 Eastern Daylight Time
Printed: Thursday, October 14, 2021 10:48:32 Eastern Daylight Time

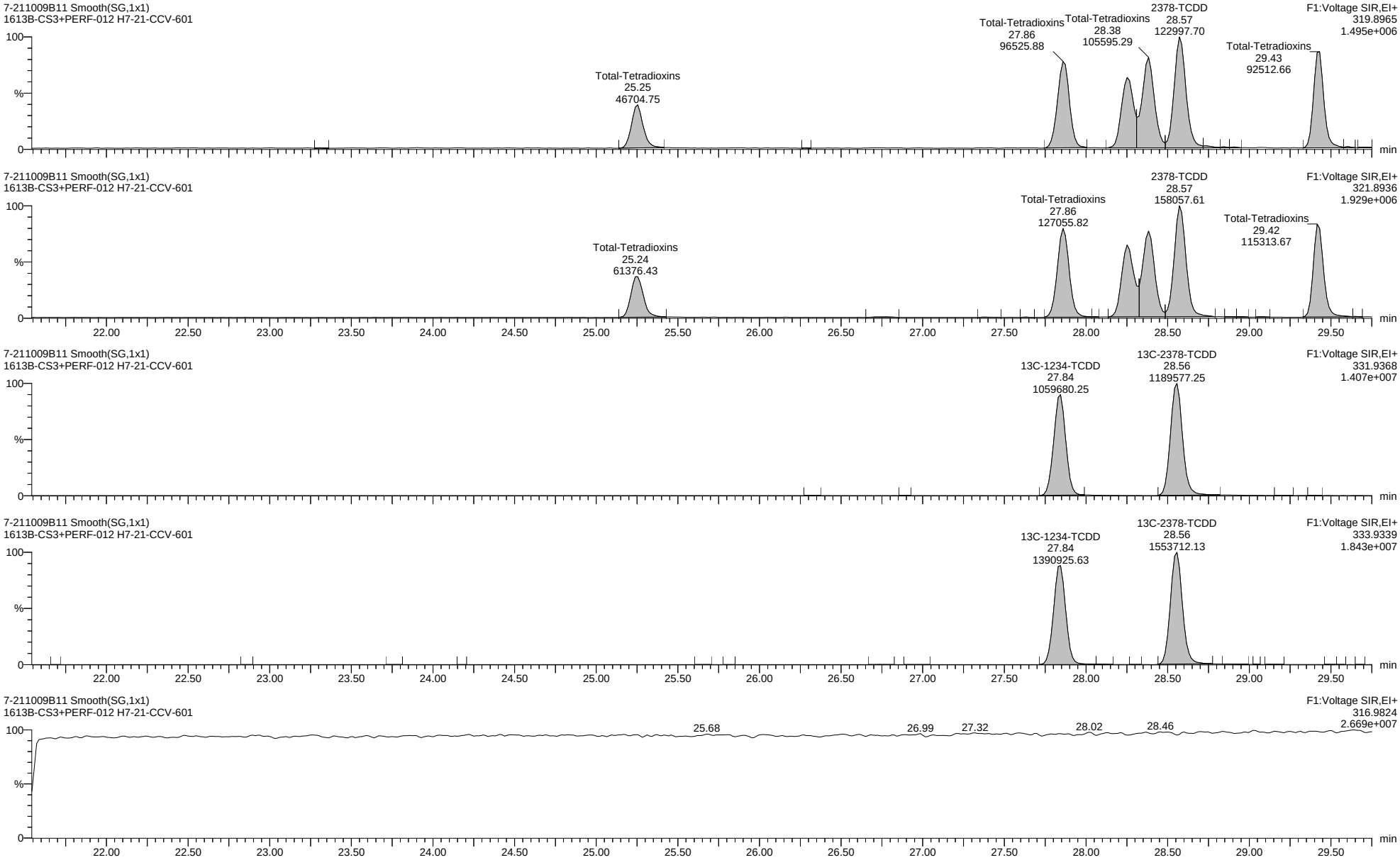
Method: C:\MassLynx\Dioxin.PRO\MethDB\Dioxin_1613B.mdb 30 Aug 2021 12:17:57
Calibration: C:\MassLynx\Dioxin.PRO\CurveDB\7-210611A-CAL5-1613.cdb 14 Jun 2021 09:35:05

Name: 7-211009B11, Date: 09-Oct-2021, Time: 18:44:55, ID: H7-21-CCV-601, Description: 1613B-CS3+PERF-012, Vial: Tray1:1

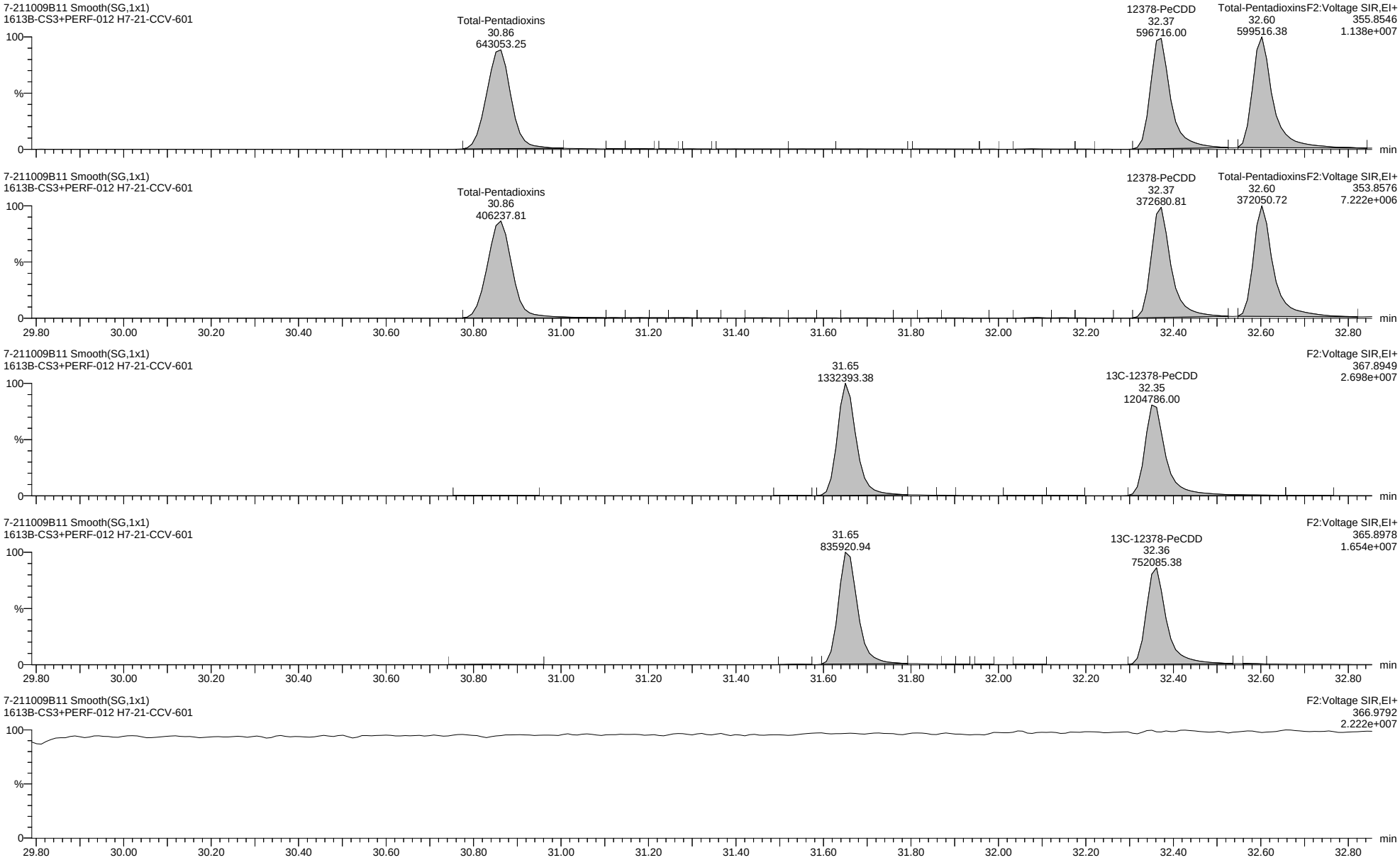




Name: 7-211009B11, Date: 09-Oct-2021, Time: 18:44:55, ID: H7-21-CCV-601, Description: 1613B-CS3+PERF-012, Vial: Tray1:1



Name: 7-211009B11, Date: 09-Oct-2021, Time: 18:44:55, ID: H7-21-CCV-601, Description: 1613B-CS3+PERF-012, Vial: Tray1:1



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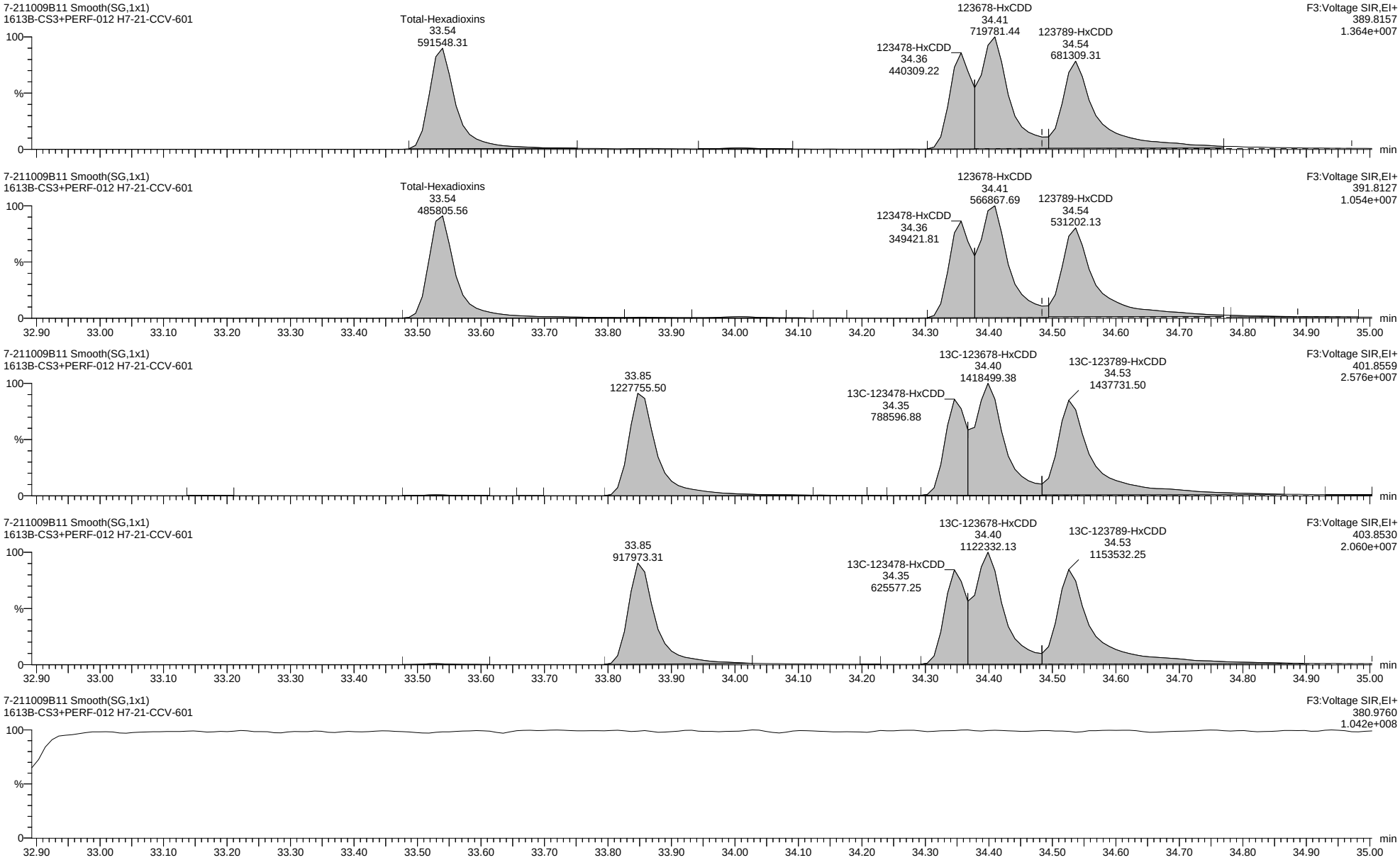

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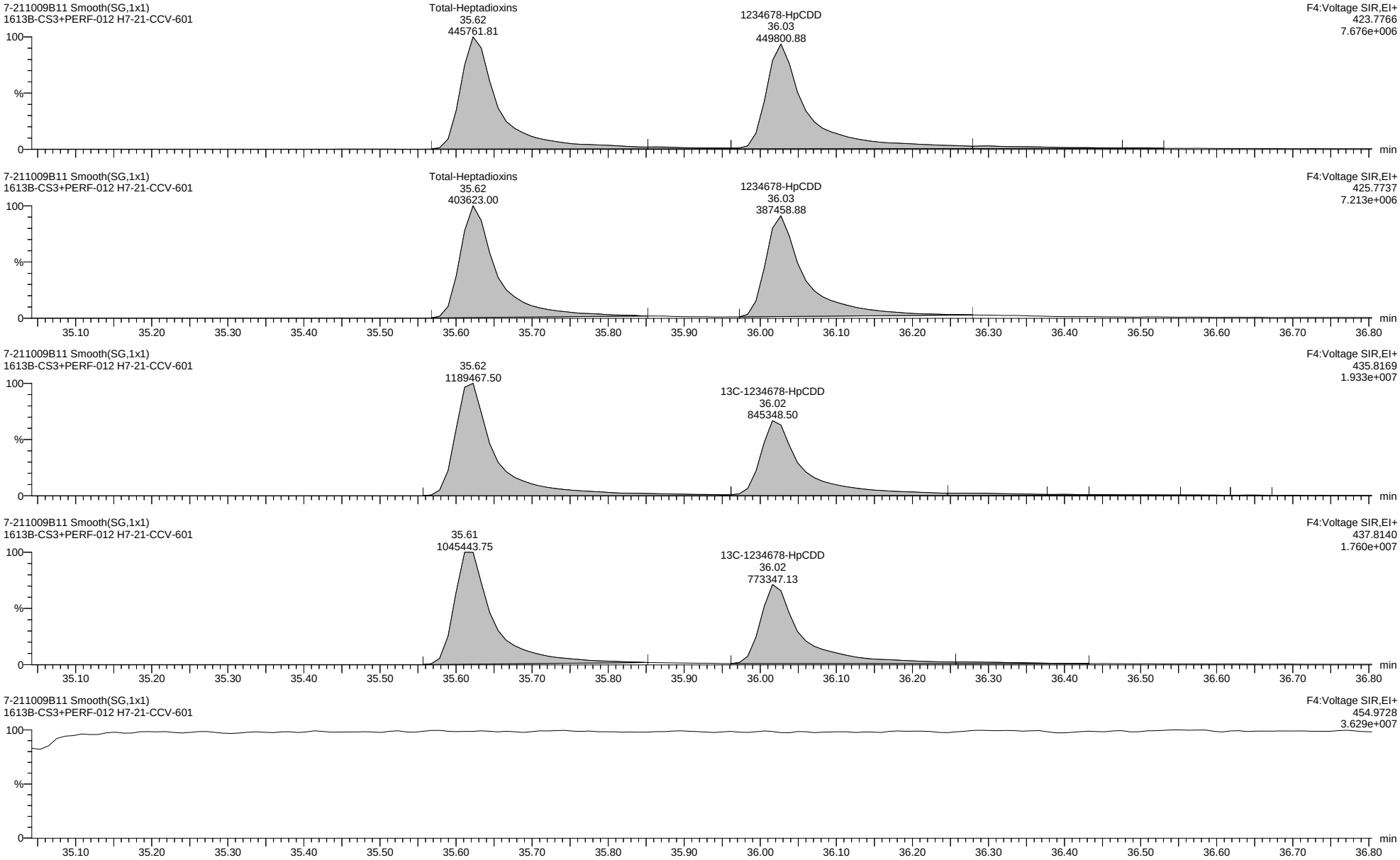

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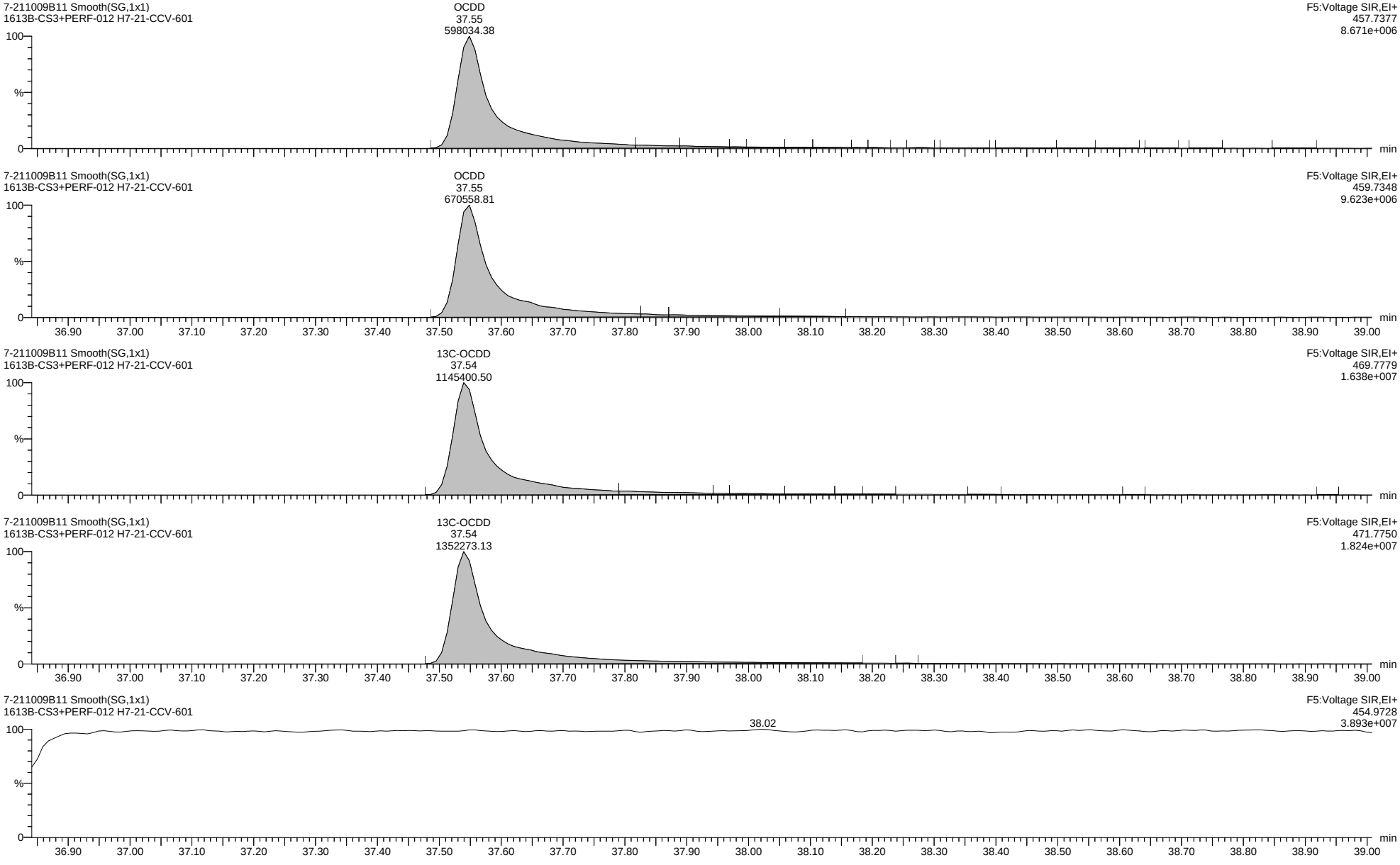

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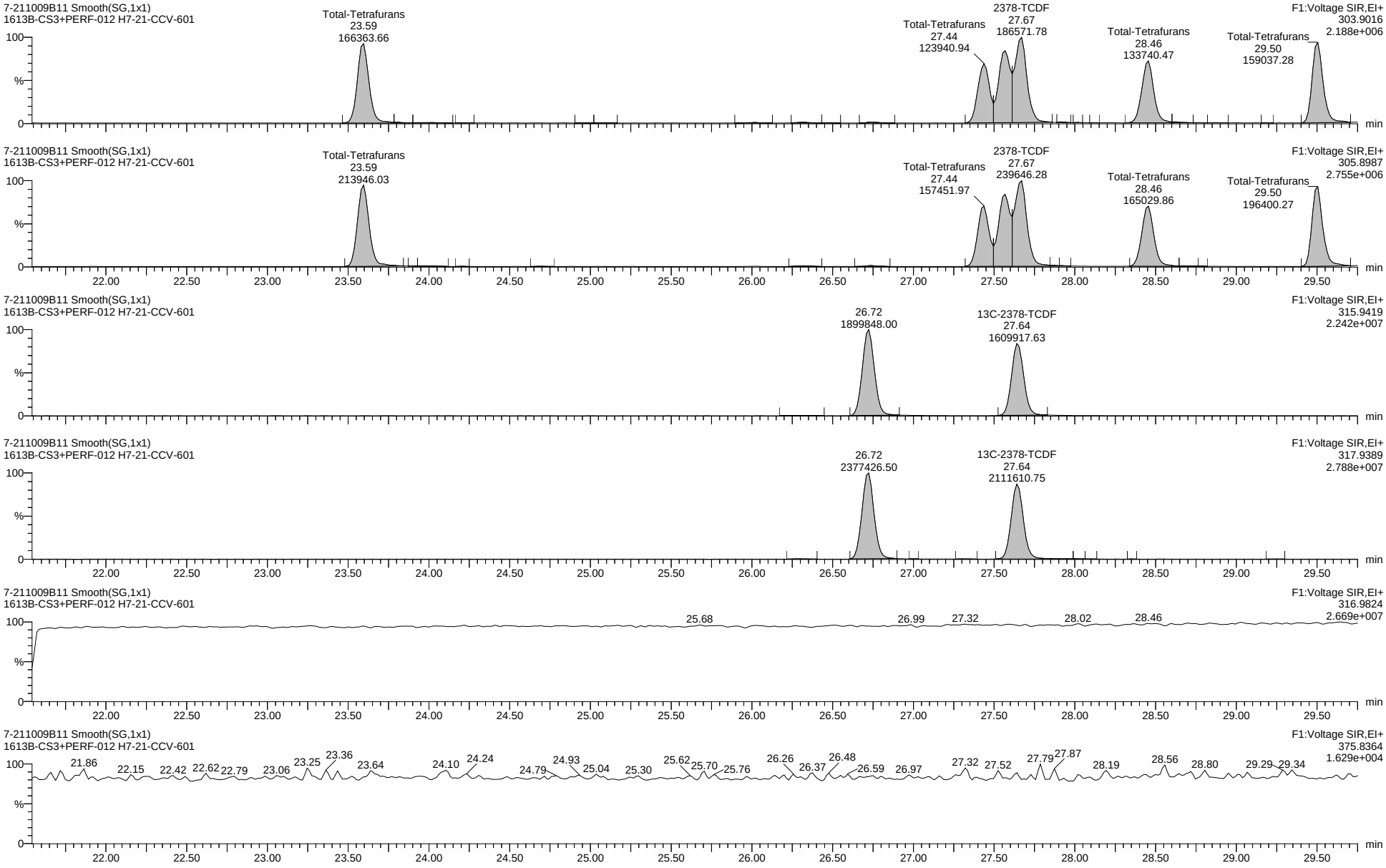

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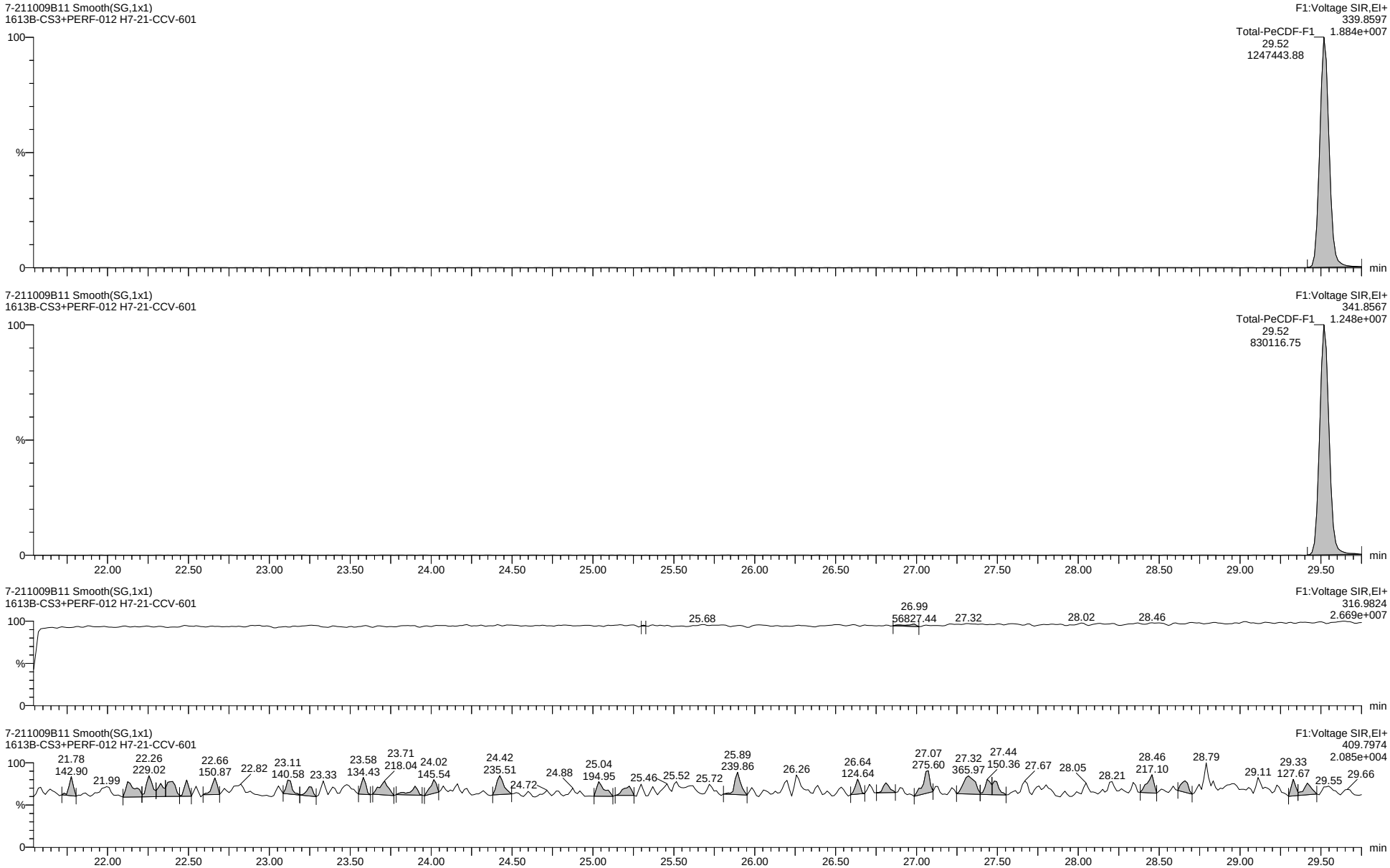

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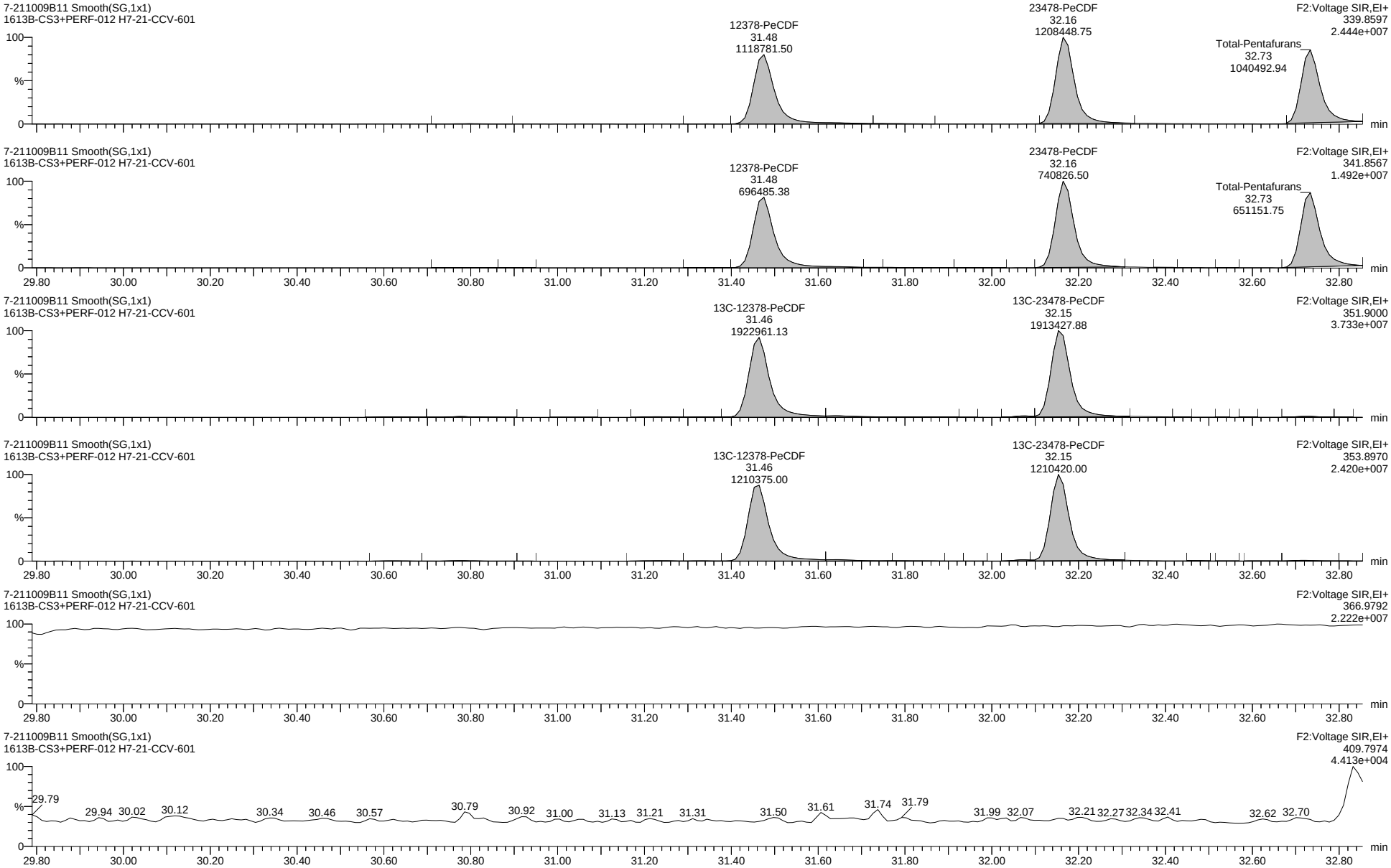

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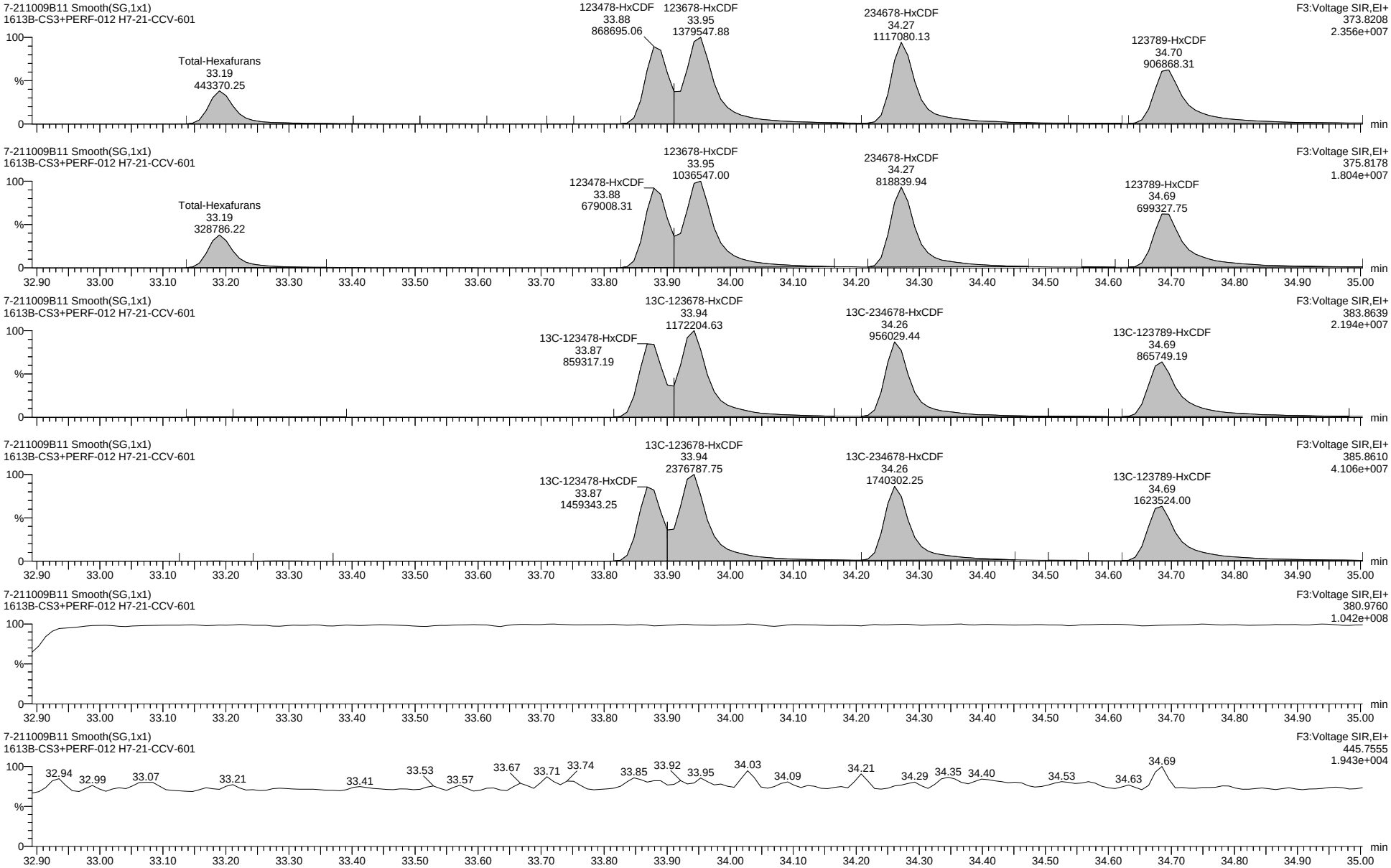

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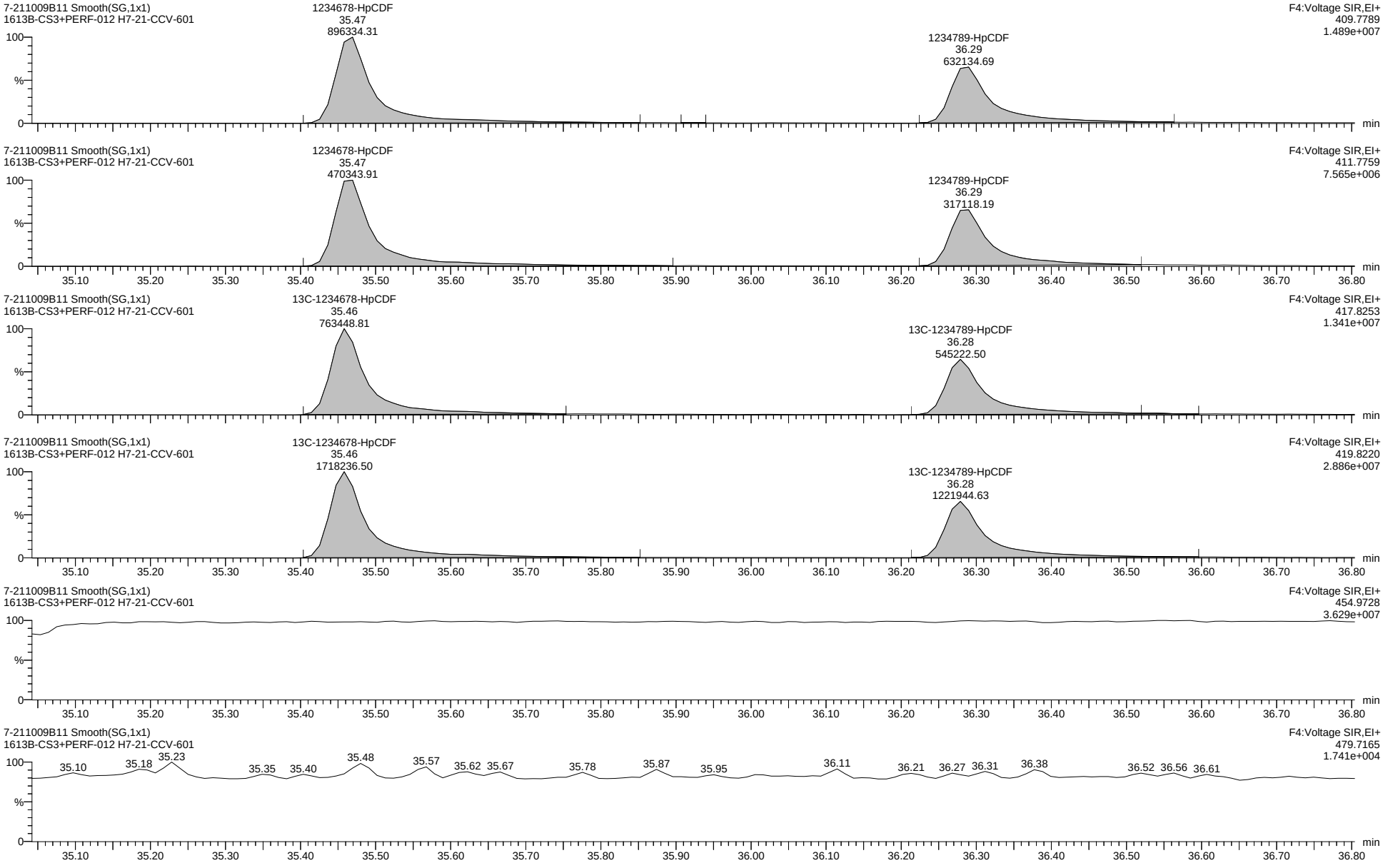

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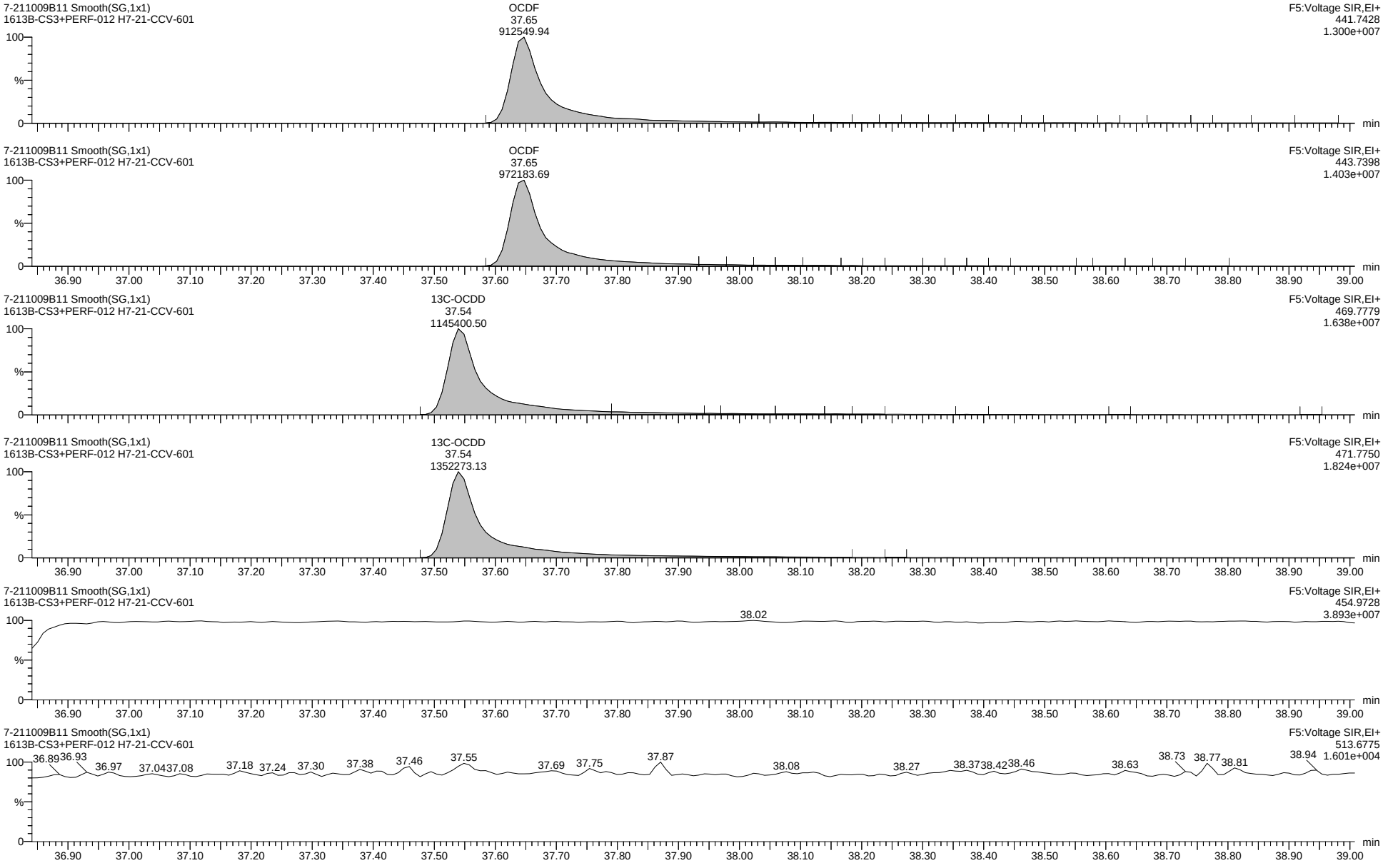

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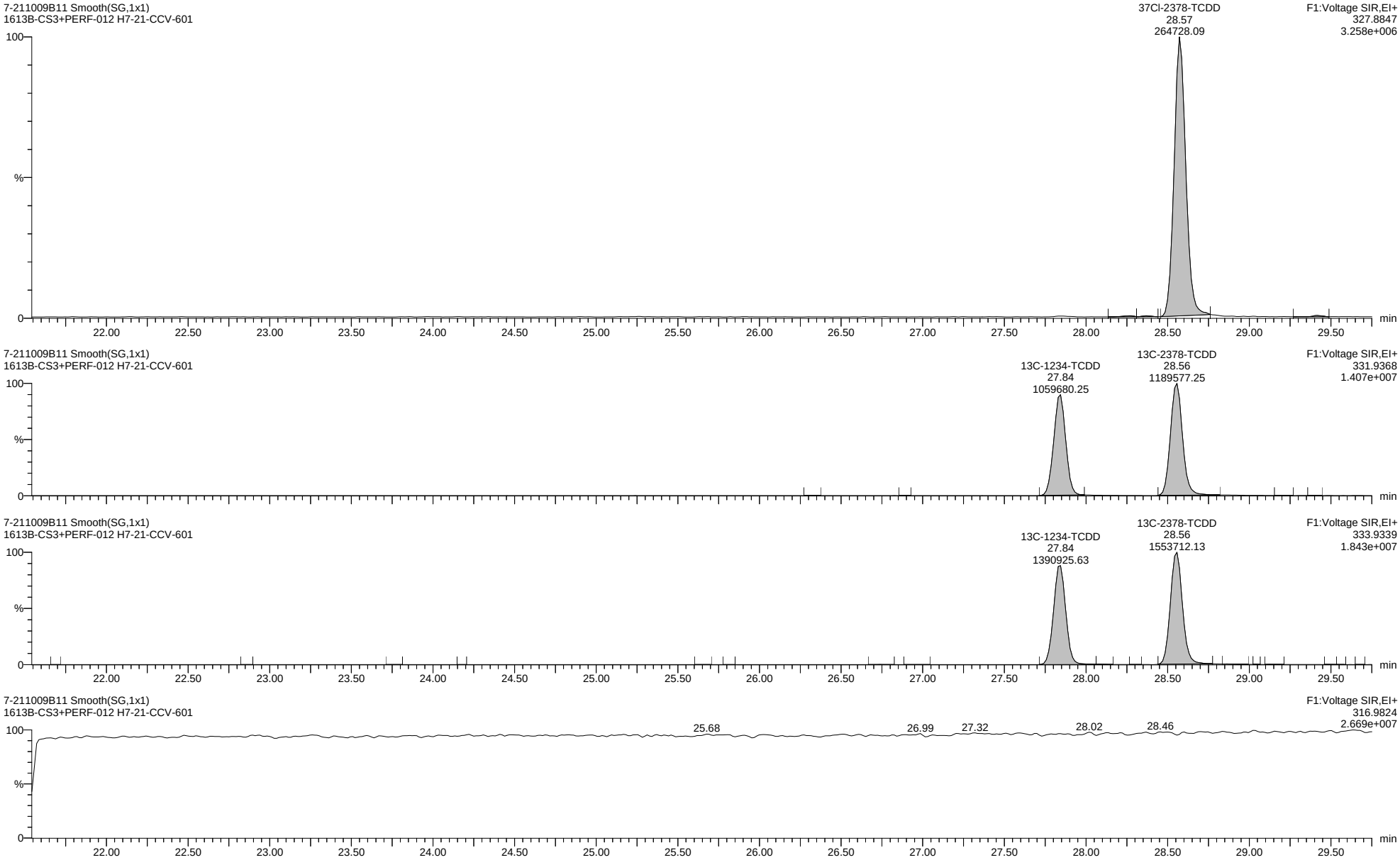


Quantify Sample Summary Report **MassLynx MassLynx V4.1 SCN 901**

Dataset: I:\Organics Instrument\HIGHRES GCMS Completed Results Files\HR-7\2021\2110\7-211009B1-1014KB.qld

Last Altered: Thursday, October 14, 2021 10:24:02 Eastern Daylight Time
Printed: Thursday, October 14, 2021 10:46:53 Eastern Daylight Time

Method: C:\MassLynx\Dioxin.PRO\MethDB\Dioxin_1613B.mdb 30 Aug 2021 12:17:57
Calibration: C:\MassLynx\Dioxin.PRO\CurveDB\7-210611A-CAL5-1613.cdb 14 Jun 2021 09:35:05

Name: 7-211009B04, Date: 09-Oct-2021, Time: 13:37:35, ID: L2625428-1, Description: 1613, Vial: Tray1:21

	Target Analyte	#Hom	Total Area	Ion1 Area	Ion2 Area	Ra	Ra Fail=YES	RT	RRT	RT LCL	RT UCL	pg	%Rec	Mod.Comment	Noise 1	Noise 2
1	2378-TCDD														1213	945
2	12378-PeCDD														991	709
3	123478-HxCDD														1156	1433
4	123678-HxCDD														1156	1433
5	123789-HxCDD														1156	1433
6	1234678-HpCDD		389	229	160	1.43	YES	36.02	1.00	35.98	36.05	3.8928691		KB211014MB	874	667
7	OCDD		2086	945	1141	0.83	NO	37.55	1.00	37.52	37.58	42.415392			946	892
8	2378-TCDF		604	231	373	0.62	YES	27.71	1.00	27.68	27.75	0.80755889		KB211014MB	1020	1309
9	12378-PeCDF		388	195	193	1.01	YES	31.46	1.00	31.43	31.50	0.75869605		KB211014MA	1008	1620
10	23478-PeCDF		351	196	154	1.27	YES	32.14	1.00	32.11	32.18	0.64054964		KB211014MA	1008	1620
11	123478-HxCDF		293	90	203	0.44	YES	33.87	1.00	33.83	33.90	0.89791505		KB211014MA	1366	2125
12	123678-HxCDF														1366	2125
13	234678-HxCDF		571	393	179	2.20	YES	34.28	1.00	34.25	34.32	1.5076254			1366	2125
14	123789-HxCDF		518	274	243	1.13	NO	34.69	1.00	34.65	34.72	1.8856916			1366	2125
15	1234678-HpCDF		230	86	144	0.60	YES	35.46	1.00	35.42	35.49	1.1921341		KB211014MA	749	808
16	1234789-HpCDF														749	808
17	OCDF		1333	664	669	0.99	NO	37.64	1.00	37.60	37.67	19.250175			2013	739
18	13C-2378-TCDD		1939683	827428	1112255	0.74	NO	28.57	1.03	28.54	28.61	2475.0741	61.9		3060	1626
19	13C-12378-PeCDD		1055073	637272	417801	1.53	NO	32.35	1.16	32.32	32.38	1875.5475	46.9		1462	3000
20	13C-123478-HxCDD		599855	335733	264122	1.27	NO	34.35	0.99	34.31	34.38	2036.2110	50.9		3059	4173
21	13C-123678-HxCDD		838164	471157	367007	1.28	NO	34.39	1.00	34.35	34.42	2716.0639	67.9		3059	4173
22	13C-1234678-HpCDD		383895	192128	191768	1.00	NO	36.02	1.04	35.98	36.05	1680.0641	42.0		3565	3590
23	13C-OCDD		367885	176055	191830	0.92	NO	37.53	1.09	37.50	37.56	2366.0752	29.6		4709	4207
24	13C-2378-TCDF		2832529	1222130	1610399	0.76	NO	27.67	0.99	27.64	27.70	2420.6214	60.5		3132	2877
25	13C-12378-PeCDF		1854374	1137921	716453	1.59	NO	31.46	1.13	31.43	31.50	2012.3863	50.3		6541	3131
26	13C-23478-PeCDF		1796135	1089844	706291	1.54	NO	32.15	1.15	32.12	32.19	2051.6829	51.3		6541	3131
27	13C-123478-HxCDF		981611	347314	634297	0.55	NO	33.87	0.98	33.83	33.90	2362.7107	59.1		1542	4740
28	13C-123678-HxCDF		1457634	518723	938911	0.55	NO	33.93	0.98	33.90	33.97	3188.1218	79.7		1542	4740
29	13C-234678-HxCDF		1069540	391272	678268	0.58	NO	34.26	0.99	34.23	34.29	2766.4153	69.2		1542	4740
30	13C-123789-HxCDF		842516	293902	548615	0.54	NO	34.67	1.00	34.64	34.71	2415.9823	60.4		1542	4740
31	13C-1234678-HpCDF		718350	226532	491818	0.46	NO	35.45	1.03	35.41	35.48	2256.8168	56.4		4592	6513
32	13C-1234789-HpCDF		397382	123887	273495	0.45	NO	36.27	1.05	36.23	36.30	1651.3272	41.3		4592	6513
33	13C-1234-TCDD		1332182	583778	748404	0.78	NO	27.86	0.00	27.83	27.89	167.55277	8.4		3060	1626
34	13C-123789-HxCDD		635817	355118	280699	1.27	NO	34.53	0.00	34.49	34.56	100.99149	5.0		3059	4173

Quantify Sample Summary Report **MassLynx MassLynx V4.1 SCN 901**

Dataset: I:\Organics Instrument\HIGHRES GCMS Completed Results Files\HR-7\2021\2110\7-211009B1-1014KB.qld

Last Altered: Thursday, October 14, 2021 10:24:02 Eastern Daylight Time
Printed: Thursday, October 14, 2021 10:46:53 Eastern Daylight Time

Name: 7-211009B04, Date: 09-Oct-2021, Time: 13:37:35, ID: L2625428-1, Description: 1613, Vial: Tray1:21

	Target Analyte	#Hom	Total Area	Ion1 Area	Ion2 Area	Ra	Ra Fail=YES	RT	RRT	RT LCL	RT UCL	pg	%Rec	Mod.Comment	Noise 1	Noise 2
35	37Cl-2378-TCDD														1254	
36	Total-Tetradioxins			0											1213	
37	Total-Pentadioxins			0								0.00000000			991	
38	Total-Hexadioxins			0								0.00000000			1156	
39	Total-Heptadioxins			0								0.00000000			874	
40	Total-OCDD	1		945								42.415392			946	
41	Total-Tetrafurans			0								0.00000000			1020	
42	Total-PeCDF-F1			0											1642	
43	Total-Pentafurans			0								0.00000000			1008	
44	Total-Hexafurans	1		274								1.8856916			1366	
45	Total-Heptafurans			0								0.00000000			749	
46	Totals-OCDF	1		664								19.250175			2013	
47	Totals-37Cl-2378-TCDD	10		9382								11.744478			1254	

Quantify Audit Report MassLynx MassLynx V4.1 SCN 901

Dataset: I:\Organics Instrument\HIGHRES GCMS Completed Results Files\HR-7\2021\2110\7-211009B1-1014KB.qld

Last Altered: Thursday, October 14, 2021 10:24:02 Eastern Daylight Time
Printed: Thursday, October 14, 2021 10:46:53 Eastern Daylight Time

Date	Time	Event	Details	Comments
14-Oct-21	10:14:43	Process Extract		
14-Oct-21	10:14:43	Process Integrate		
14-Oct-21	10:14:43	Process Quantify		
14-Oct-21	10:14:43	Dataset Created		
14-Oct-21	10:15:17	Dataset Saved	Saved to 'I:\Organics Instrument\HIGHRES GCMS Complete...	
14-Oct-21	10:15:28	Dataset Saved	Saved to 'I:\Organics Instrument\HIGHRES GCMS Complete...	
14-Oct-21	10:21:56	Peak deleted	Sample:7-211009B04, Compound:PF-f1, RT:29.503	
14-Oct-21	10:21:56	Peak deleted	Sample:7-211009B04, Compound:PF-f1, RT:29.111	
14-Oct-21	10:21:56	Peak deleted	Sample:7-211009B04, Compound:PF-f1, RT:28.572	
14-Oct-21	10:21:56	Peak deleted	Sample:7-211009B04, Compound:PF-f1, RT:28.325	
14-Oct-21	10:21:56	Peak deleted	Sample:7-211009B04, Compound:PF-f1, RT:26.782	
14-Oct-21	10:21:56	Peak deleted	Sample:7-211009B04, Compound:PF-f1, RT:26.287	
14-Oct-21	10:21:56	Peak deleted	Sample:7-211009B04, Compound:PF-f1, RT:24.643	
14-Oct-21	10:22:44	Peak added	Sample:7-211009B04, Compound:HPD, RT:36.038	KB211014MB
14-Oct-21	10:22:44	Peak added	Sample:7-211009B04, Compound:HPD, RT:35.644	KB211014MB
14-Oct-21	10:23:11	Pre modification peak	Sample:7-211009B04, Compound:TF, RT:27.713	
14-Oct-21	10:23:11	Peak modified	Sample:7-211009B04, Compound:TF, RT:27.713	KB211014MB
14-Oct-21	10:23:30	Peak added	Sample:7-211009B04, Compound:PF-f2, RT:32.143	KB211014MA
14-Oct-21	10:23:30	Peak added	Sample:7-211009B04, Compound:PF-f2, RT:31.464	KB211014MA
14-Oct-21	10:23:44	Peak added	Sample:7-211009B04, Compound:HXF, RT:33.868	KB211014MA
14-Oct-21	10:23:59	Peak added	Sample:7-211009B04, Compound:HPF, RT:35.447	KB211014MA
14-Oct-21	10:23:59	Peak added	Sample:7-211009B04, Compound:HPF, RT:35.458	KB211014MA
14-Oct-21	10:24:08	Dataset Saved	Saved to 'I:\Organics Instrument\HIGHRES GCMS Complete...	

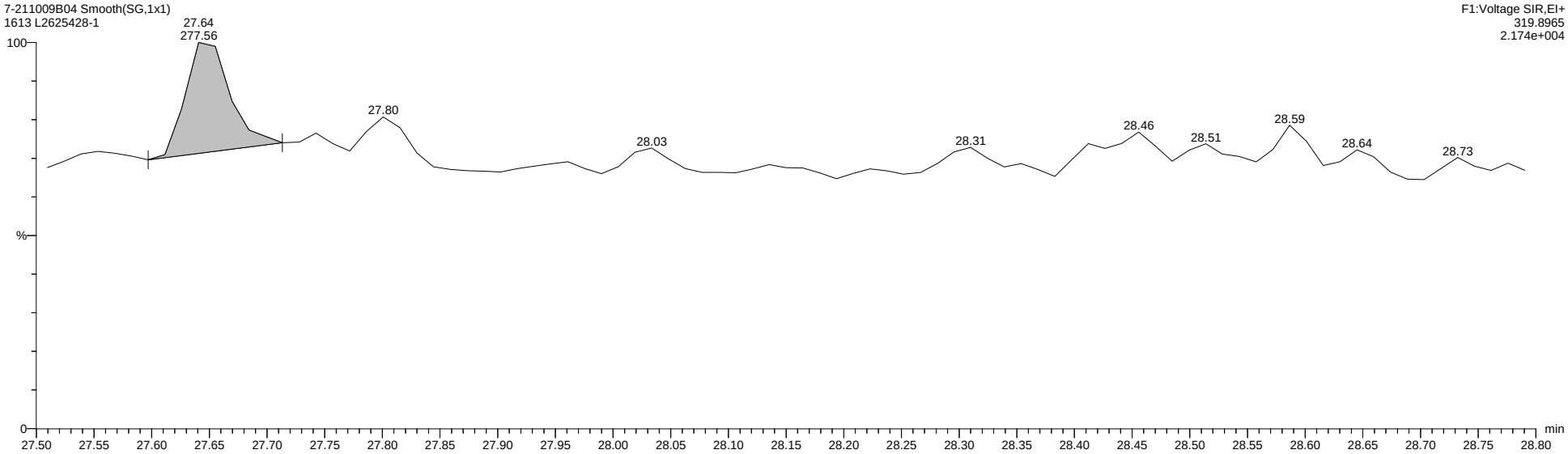
Quantify Sample Template Report **MassLynx MassLynx V4.1 SCN 901**

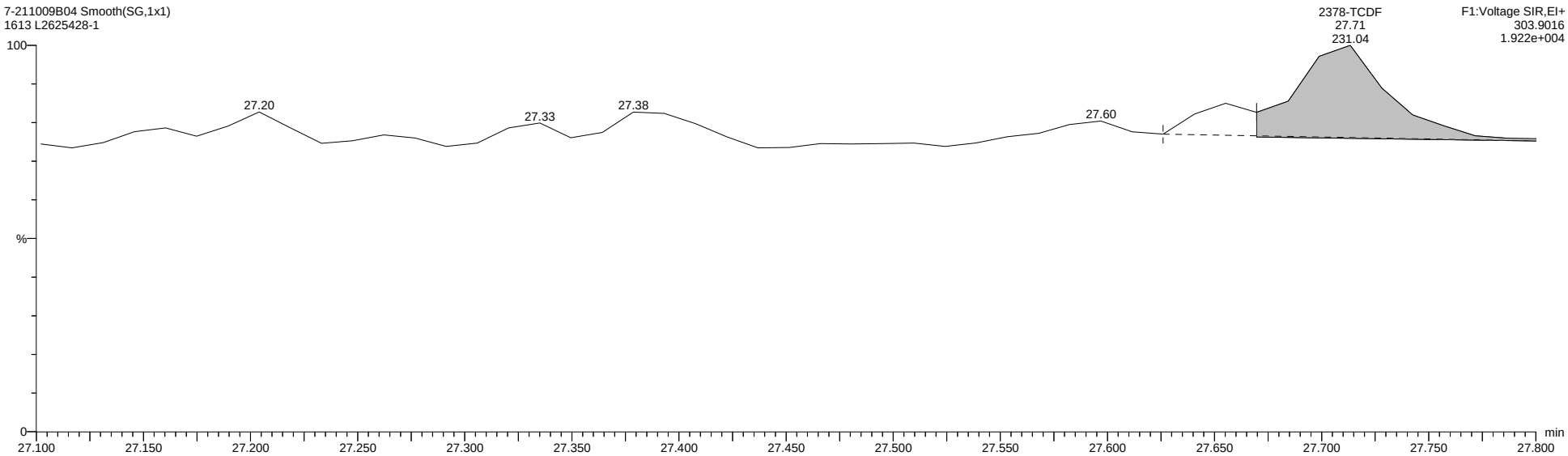
Dataset: I:\Organics Instrument\HIGHRES GCMS Completed Results Files\HR-7\2021\2110\7-211009B1-1014KB.qld

Last Altered: Thursday, October 14, 2021 10:24:02 Eastern Daylight Time
Printed: Thursday, October 14, 2021 10:46:53 Eastern Daylight Time

Method: C:\MassLynx\Dioxin.PRO\MethDB\Dioxin_1613B.mdb 30 Aug 2021 12:17:57
Calibration: C:\MassLynx\Dioxin.PRO\CurveDB\7-210611A-CAL5-1613.cdb 14 Jun 2021 09:35:05

Name: 7-211009B04, Date: 09-Oct-2021, Time: 13:37:35, ID: L2625428-1, Description: 1613, Vial: Tray1:21





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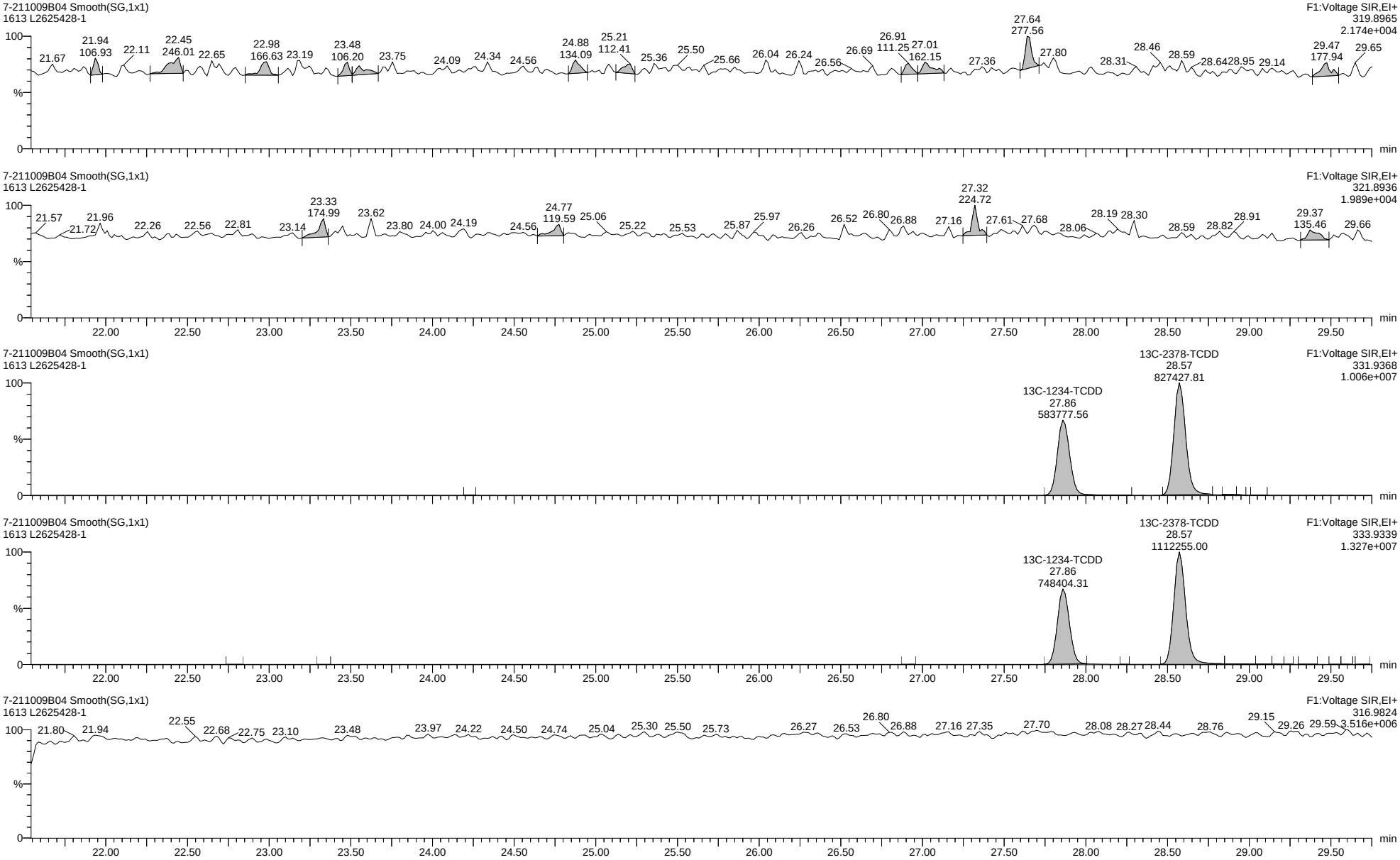

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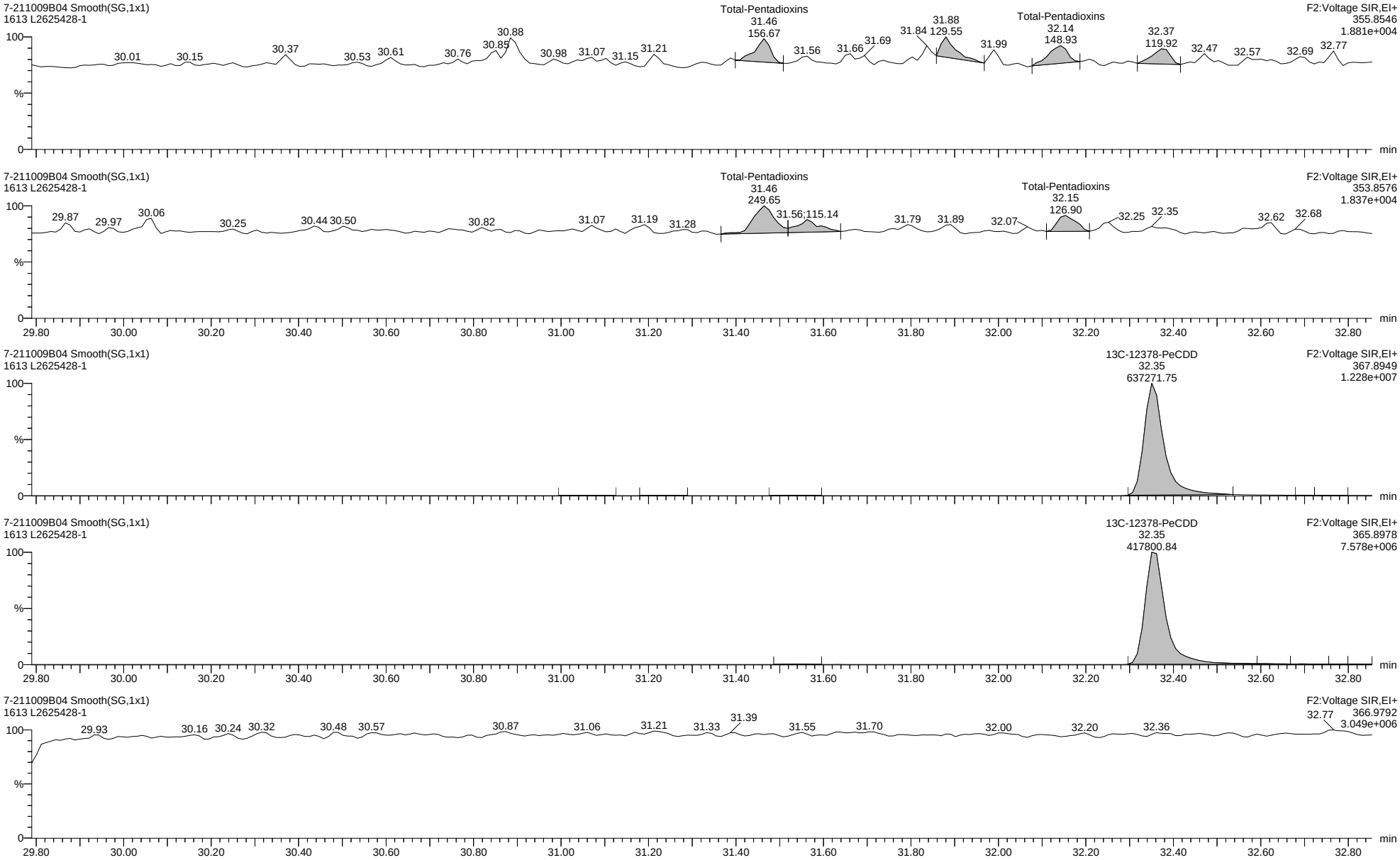

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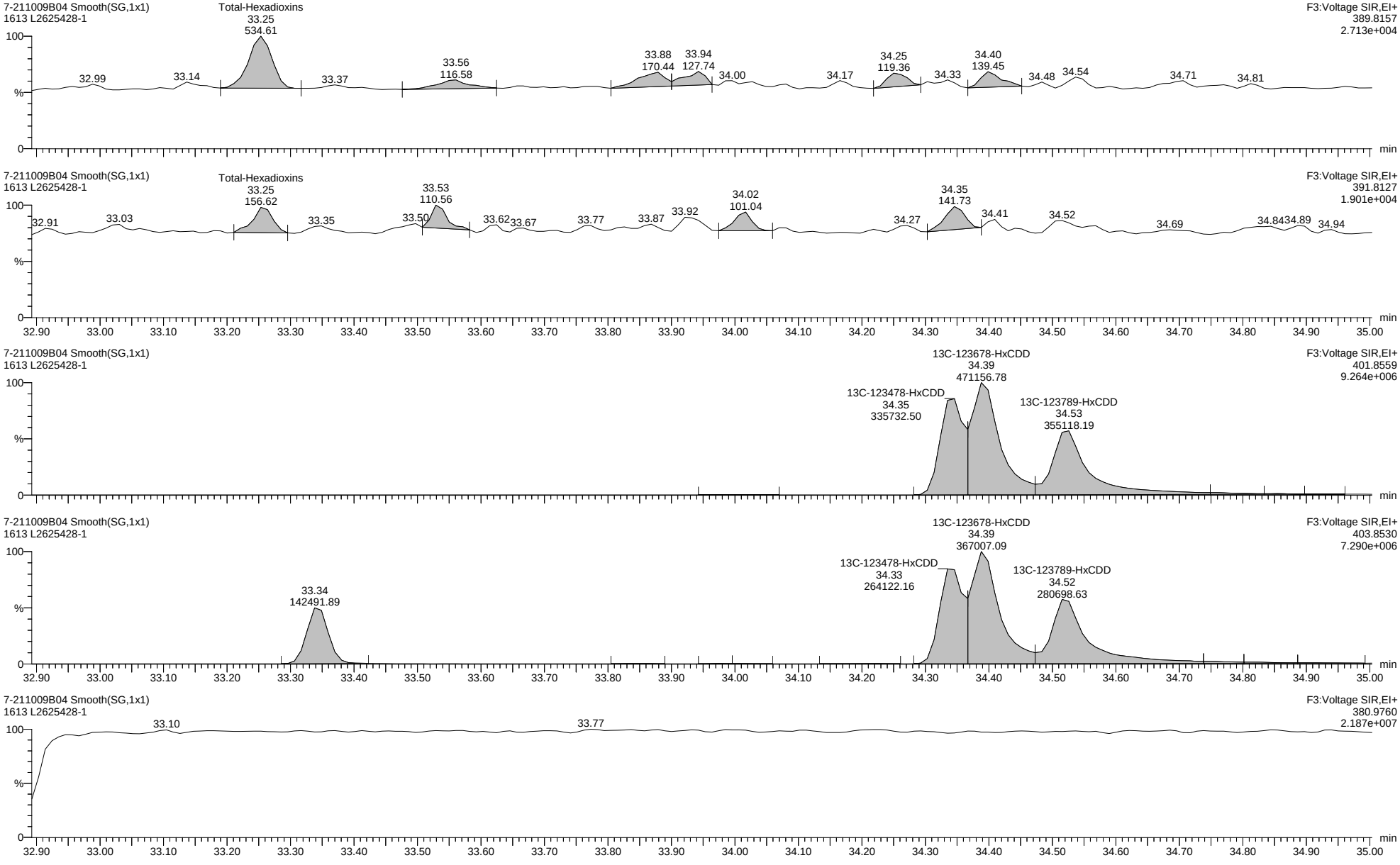

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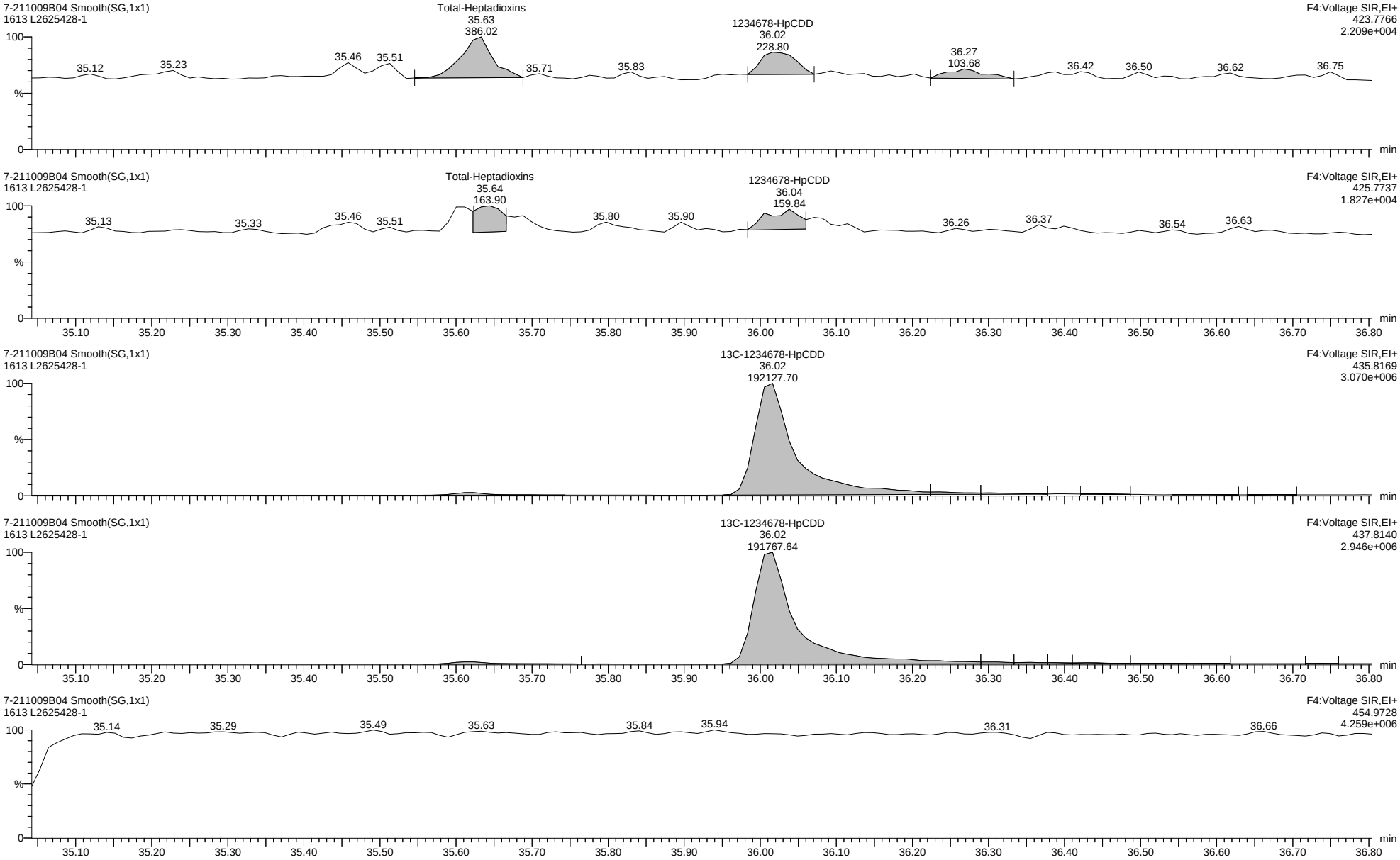
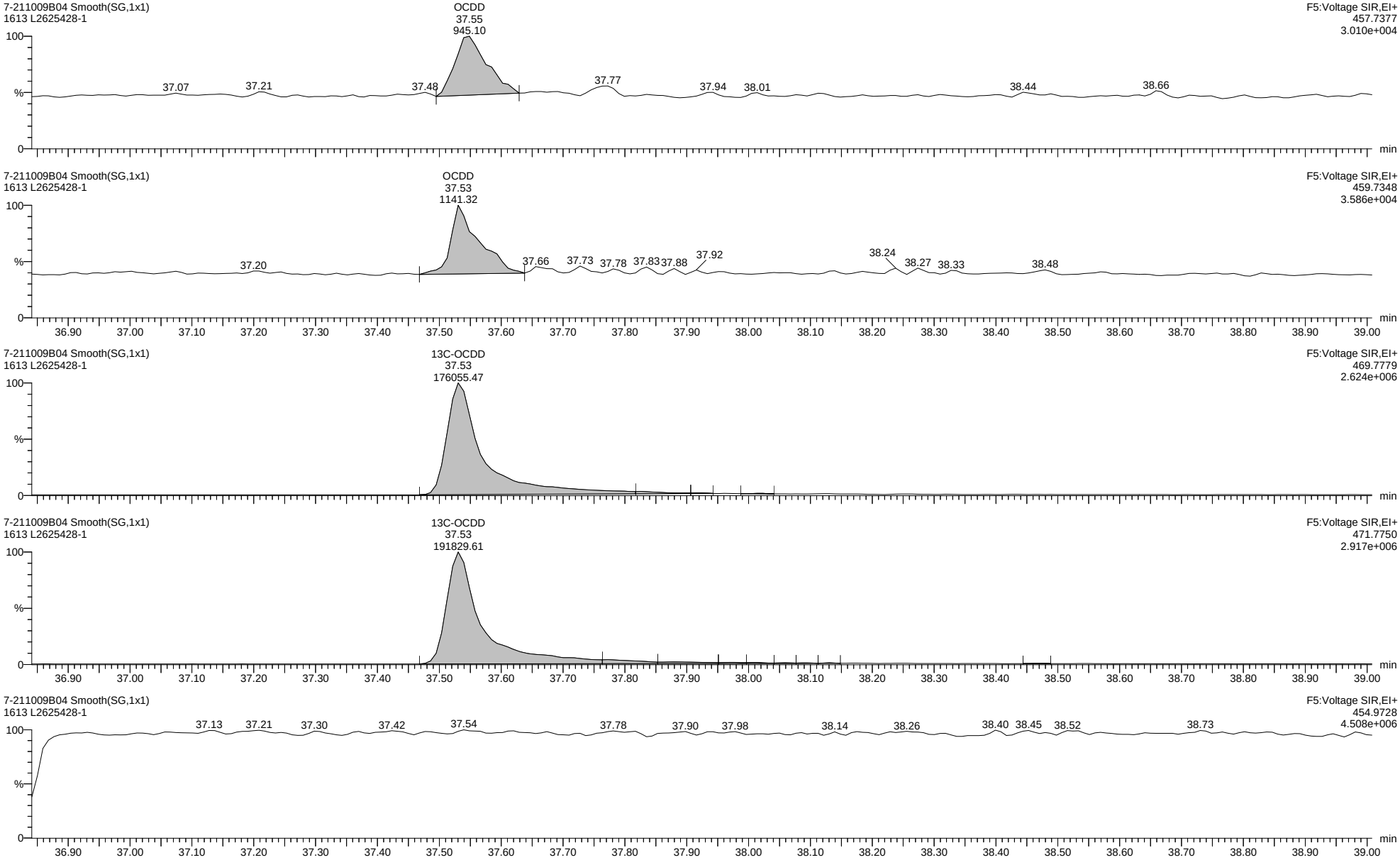


Quantify Sample Template Report **MassLynx MassLynx V4.1 SCN 901**

Dataset: I:\Organics Instrument\HIGHRES GCMS Completed Results Files\HR-7\2021\2110\7-211009B1-1014KB.qld

Last Altered: Thursday, October 14, 2021 10:24:02 Eastern Daylight Time
Printed: Thursday, October 14, 2021 10:46:53 Eastern Daylight Time

Name: 7-211009B04, Date: 09-Oct-2021, Time: 13:37:35, ID: L2625428-1, Description: 1613, Vial: Tray1:21

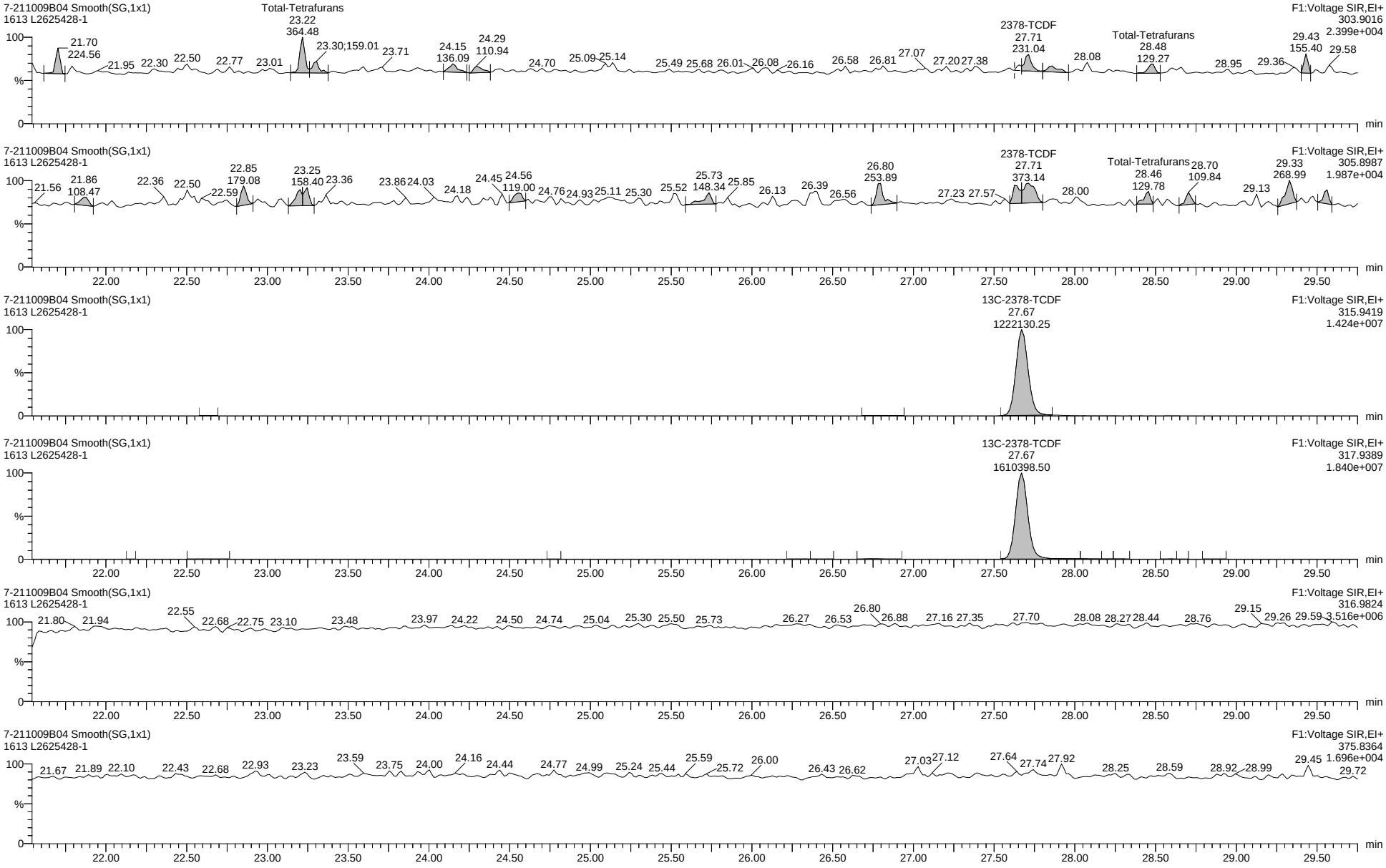


Quantify Sample Template Report **MassLynx MassLynx V4.1 SCN 901**

Dataset: I:\Organics Instrument\HIGHRES GCMS Completed Results Files\HR-7\2021\2110\7-211009B1-1014KB.qld

Last Altered: Thursday, October 14, 2021 10:24:02 Eastern Daylight Time
Printed: Thursday, October 14, 2021 10:46:53 Eastern Daylight Time

Name: 7-211009B04, Date: 09-Oct-2021, Time: 13:37:35, ID: L2625428-1, Description: 1613, Vial: Tray1:21



Dataset: I:\Organics Instrument\HIGHRES GCMS Completed Results Files\HR-7\2021\2110\7-211009B1-1014KB.qld

Last Altered: Thursday, October 14, 2021 10:24:02 Eastern Daylight Time
Printed: Thursday, October 14, 2021 10:46:53 Eastern Daylight Time

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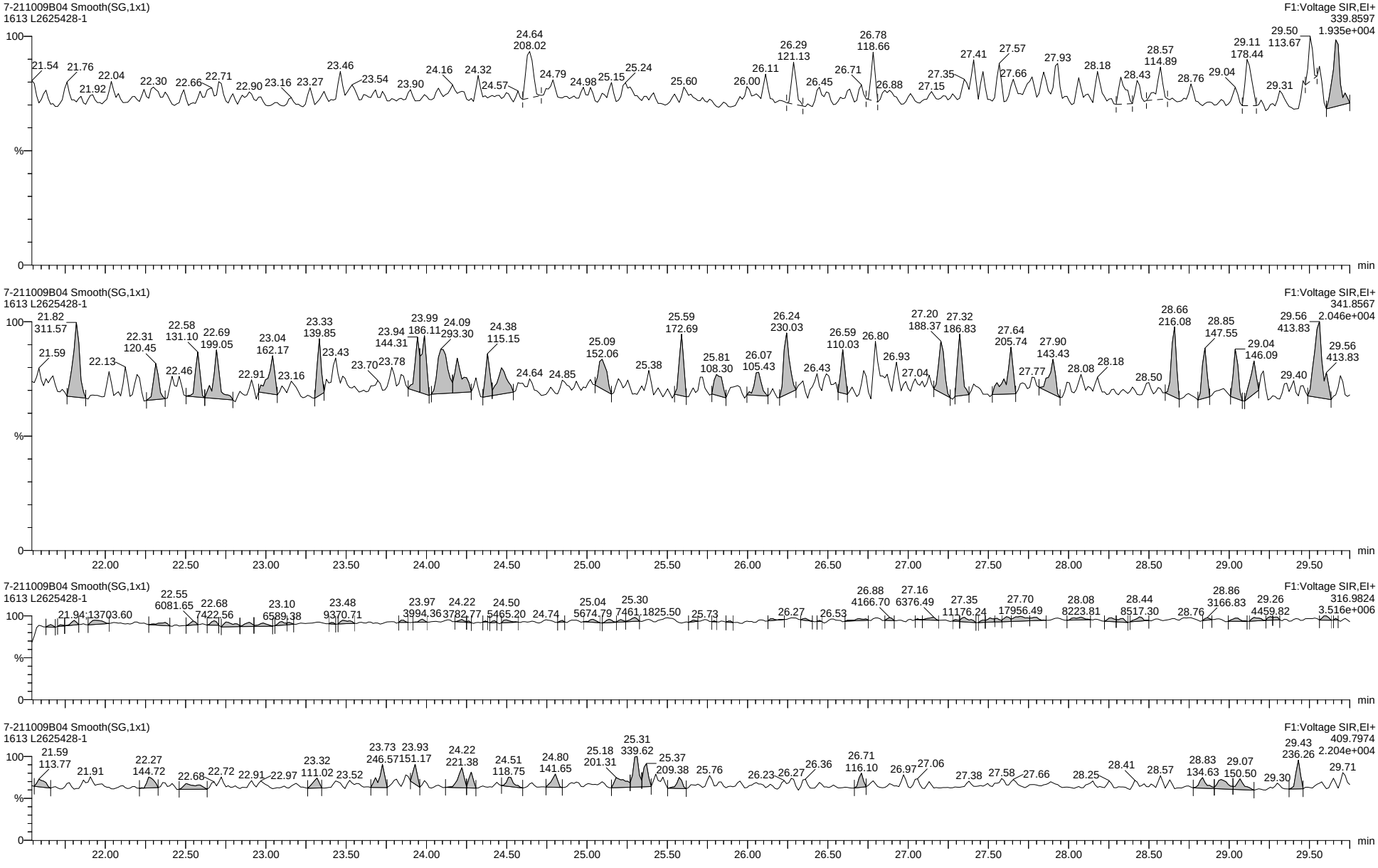

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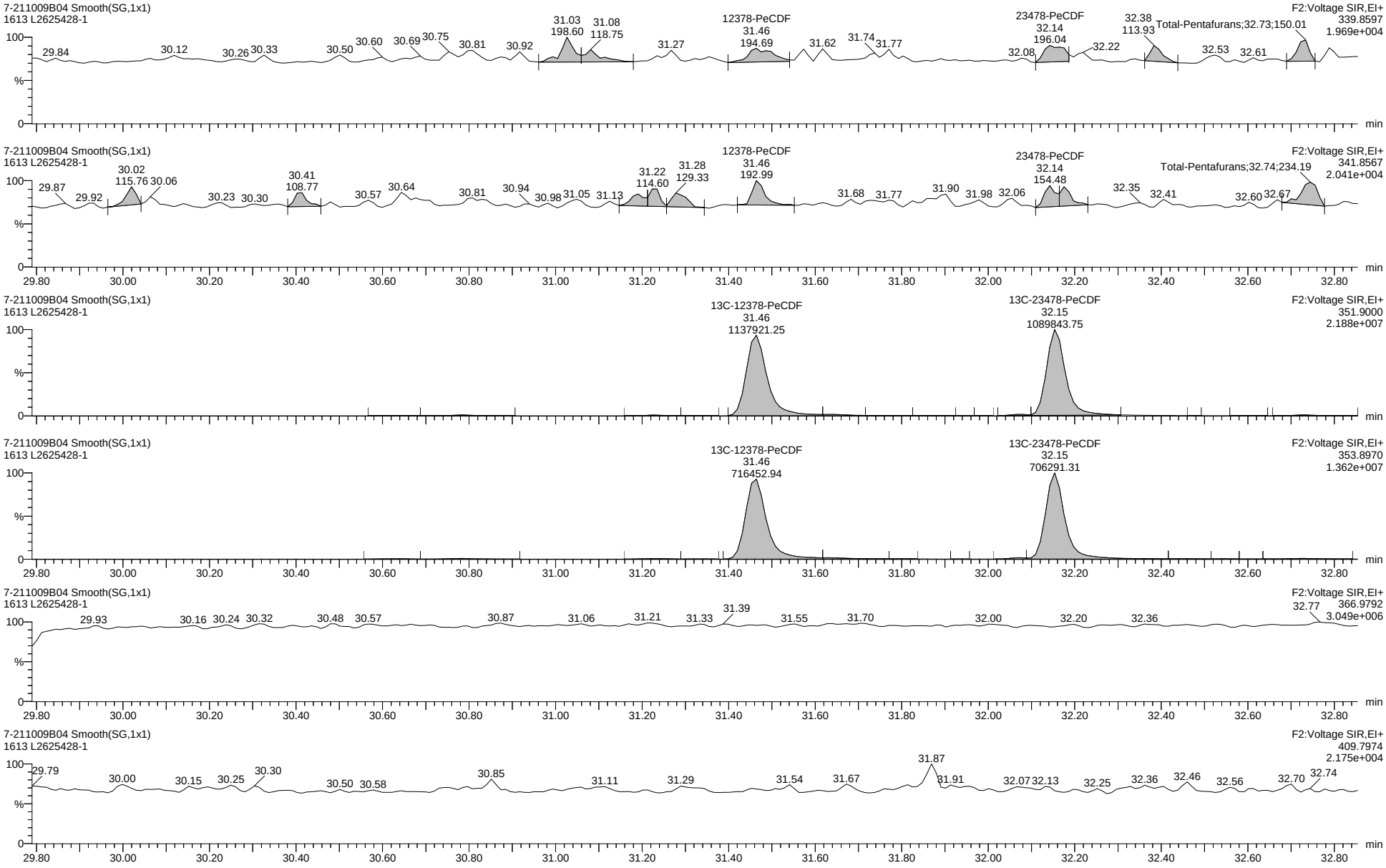
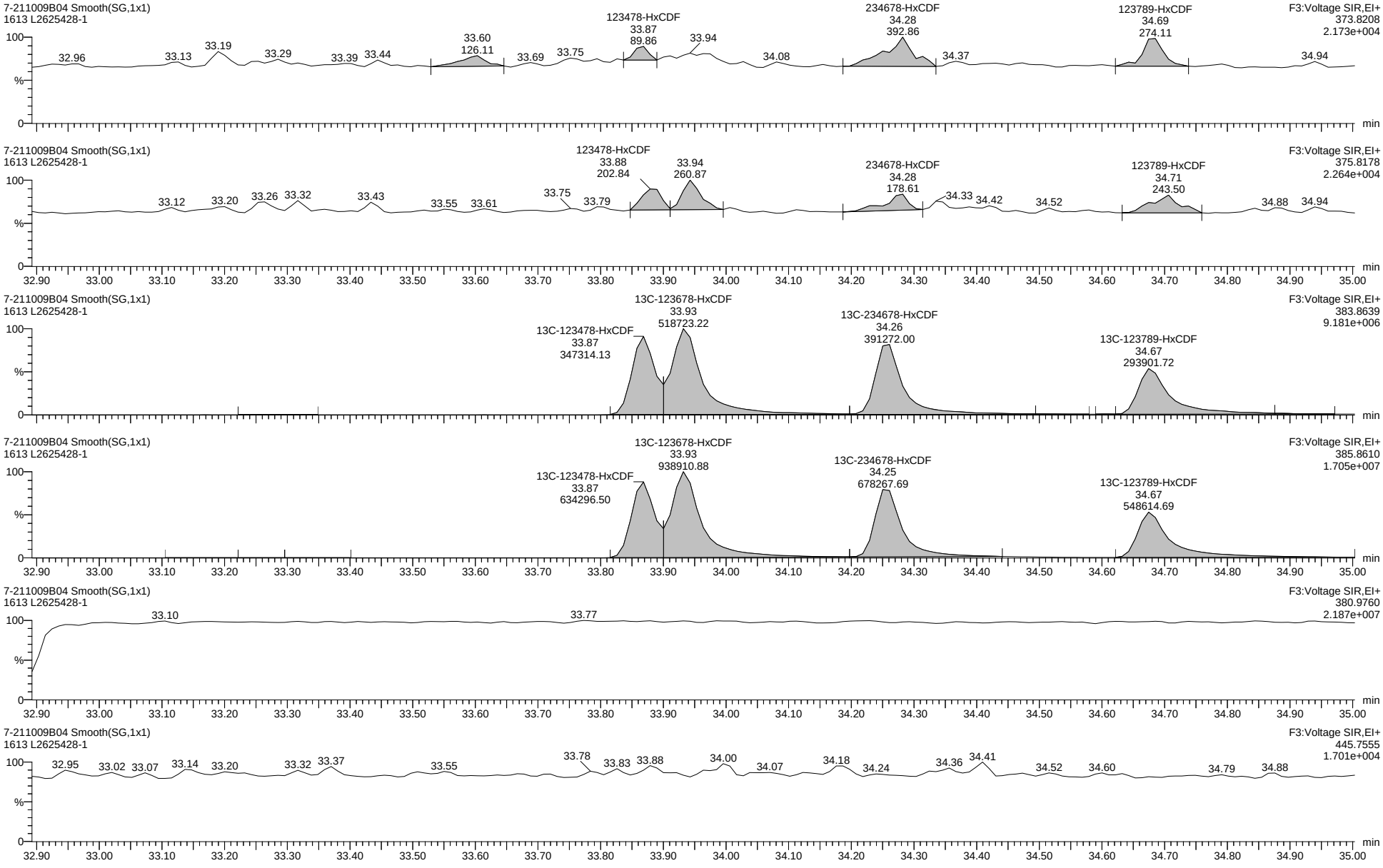


Dataset: I:\Organics Instrument\HIGHRES GCMS Completed Results Files\HR-7\2021\2110\7-211009B1-1014KB.qld

Last Altered: Thursday, October 14, 2021 10:24:02 Eastern Daylight Time
Printed: Thursday, October 14, 2021 10:46:53 Eastern Daylight Time

Name: 7-211009B04, Date: 09-Oct-2021, Time: 13:37:35, ID: L2625428-1, Description: 1613, Vial: Tray1:21



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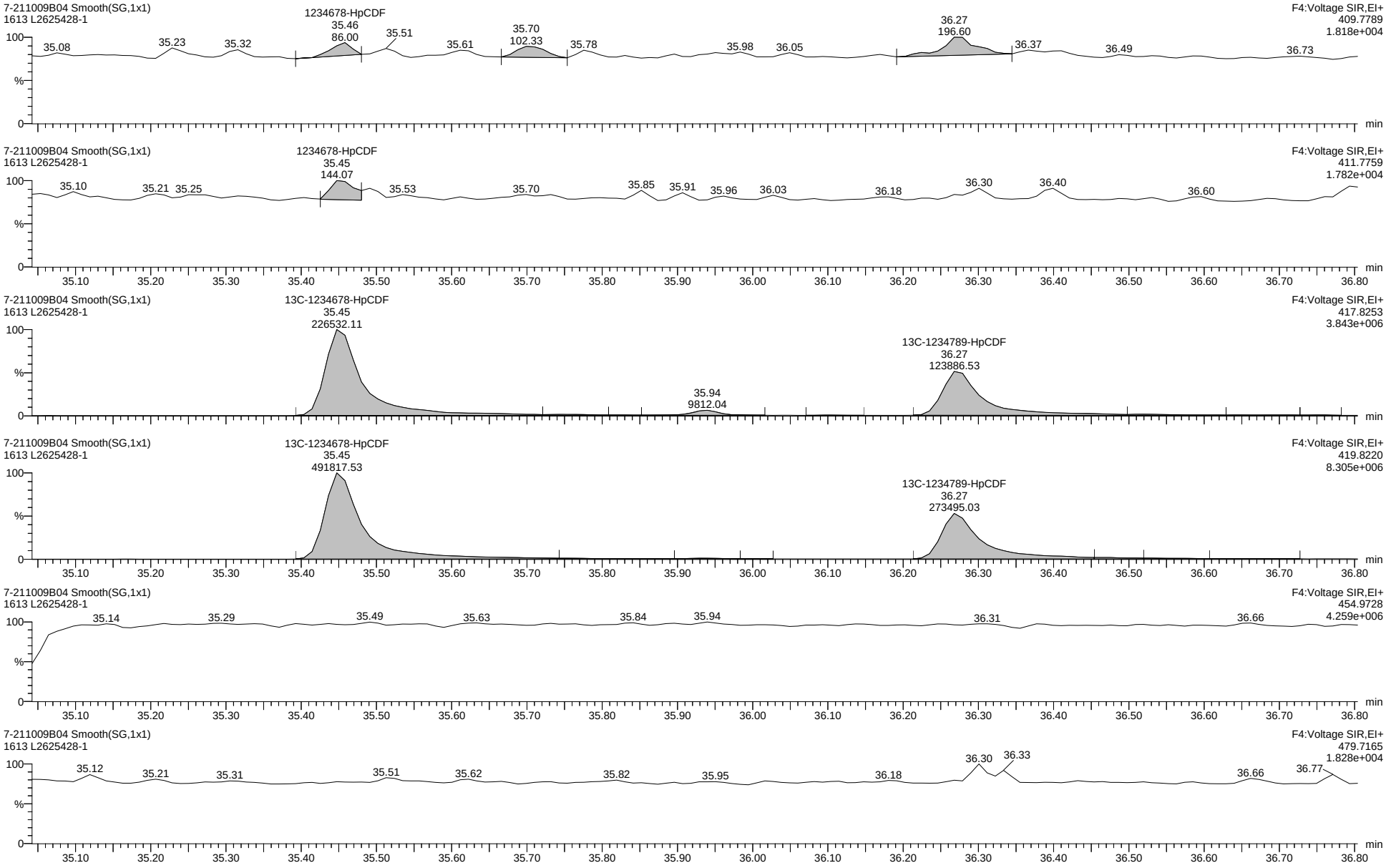
Last Altered: Thursday, October 14, 2021 10:24:02 Eastern Daylight Time
Printed: Thursday, October 14, 2021 10:46:53 Eastern Daylight Time

Name: 7-211009B04, Date: 09-Oct-2021, Time: 13:37:35, ID: L2625428-1, Description: 1613, Vial: Tray1:21



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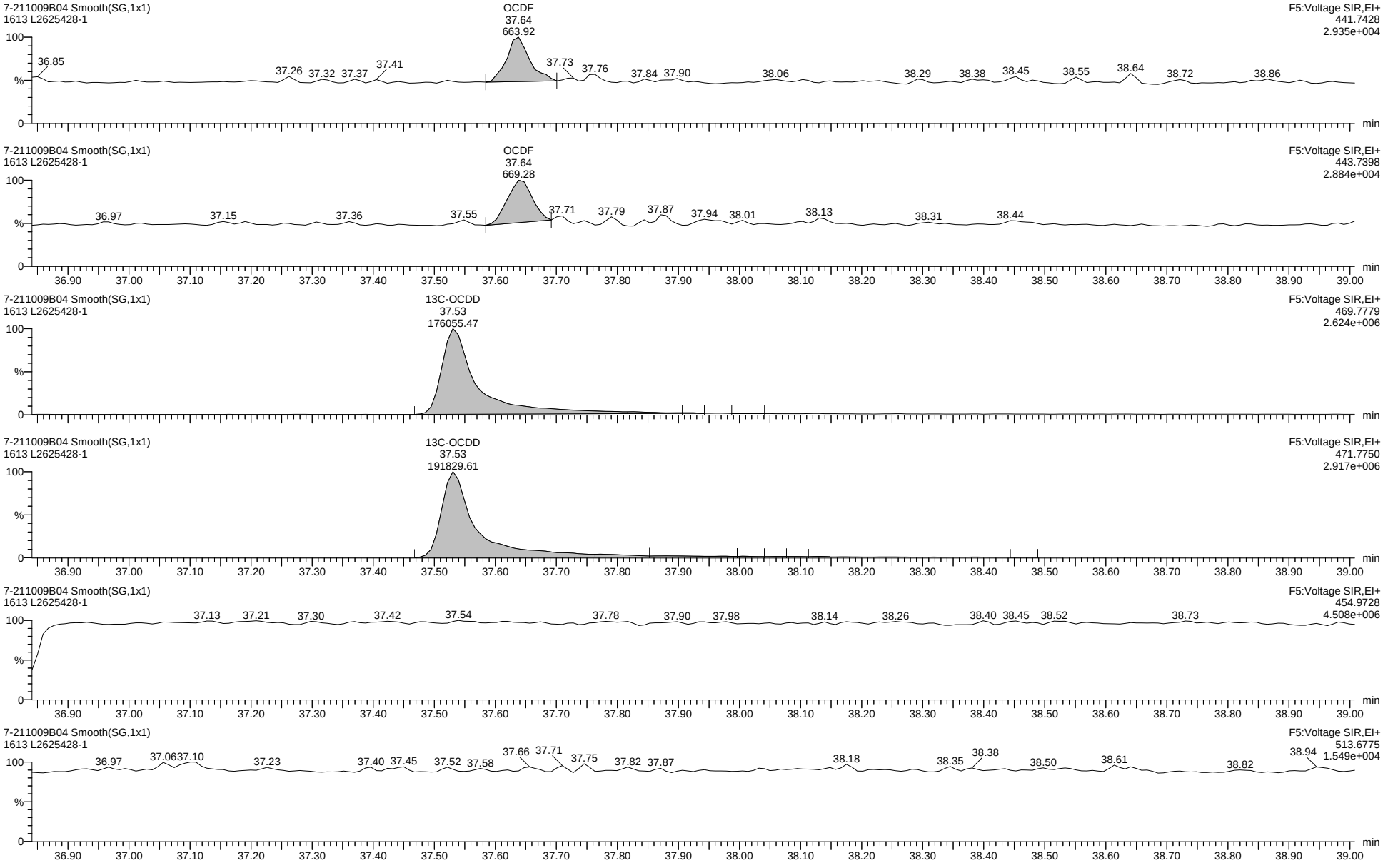
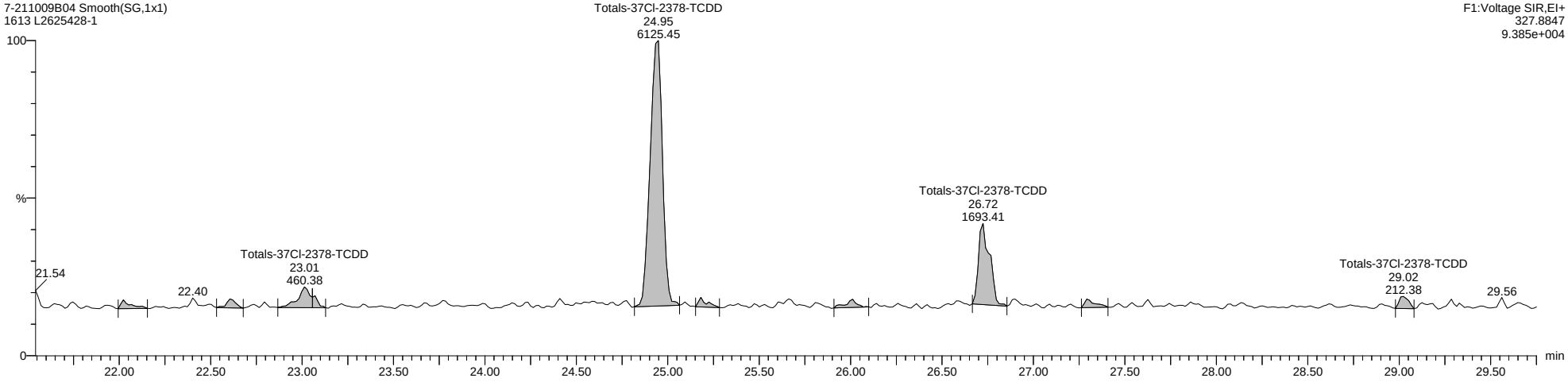


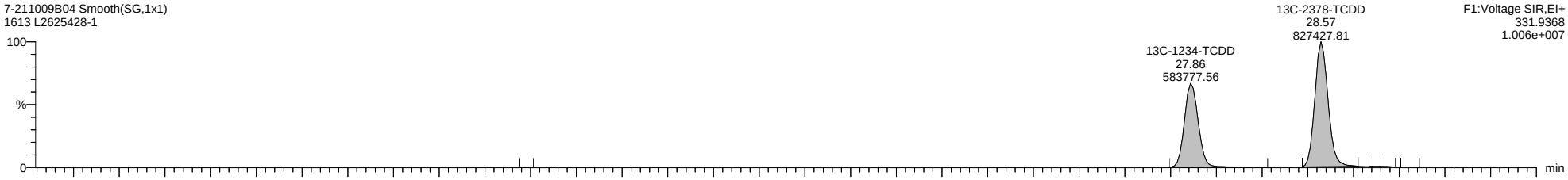
Quantify Sample Template Report **MassLynx MassLynx V4.1 SCN 901**

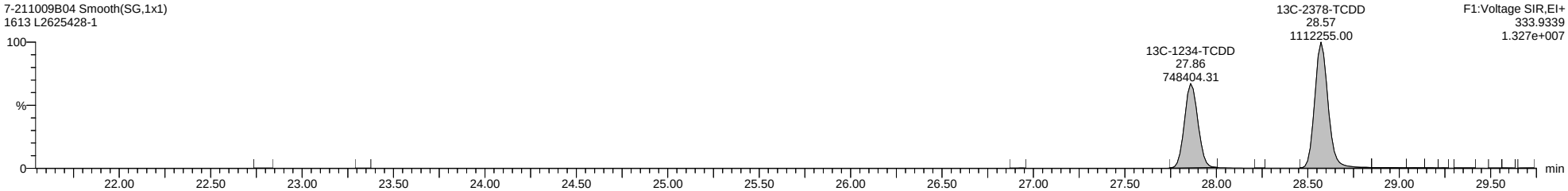
Dataset: I:\Organics Instrument\HIGHRES GCMS Completed Results Files\HR-7\2021\2110\7-211009B1-1014KB.qld

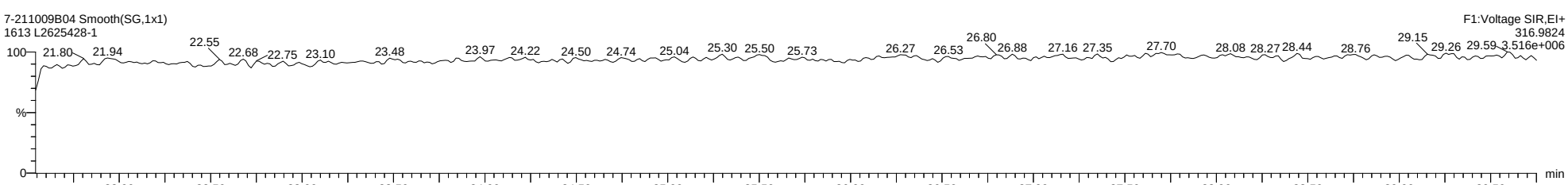
Last Altered: Thursday, October 14, 2021 10:24:02 Eastern Daylight Time
Printed: Thursday, October 14, 2021 10:46:53 Eastern Daylight Time

Name: 7-211009B04, Date: 09-Oct-2021, Time: 13:37:35, ID: L2625428-1, Description: 1613, Vial: Tray1:21









File: Experiment: Dioxin_1613B.exp Reference: Pfk.ref Function: 1 @ 200 (ppm)

Printed: Saturday, October 09, 2021 11:23:42 Eastern Daylight Time

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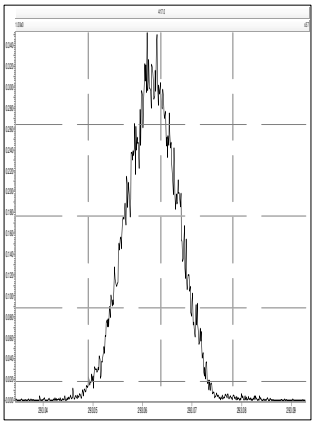
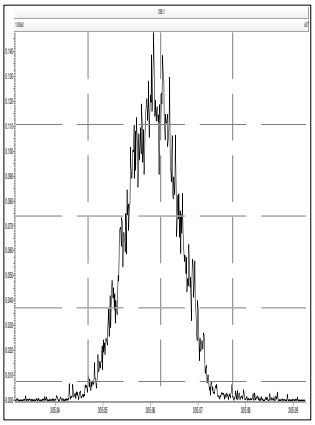
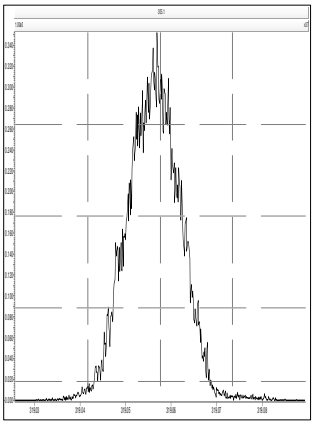


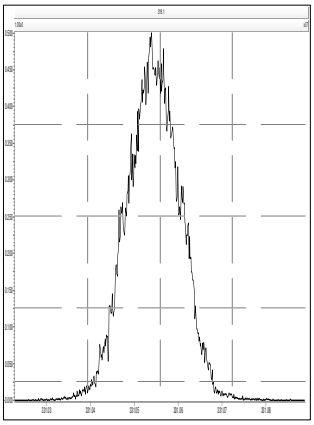
M 304.9824 R 12948



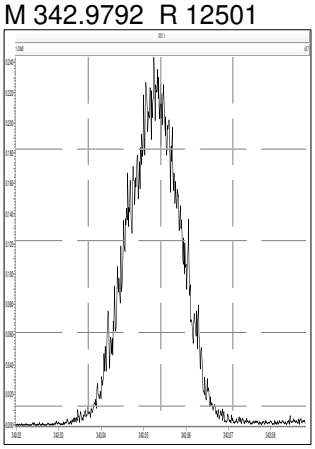
M 318.9792 R 12499



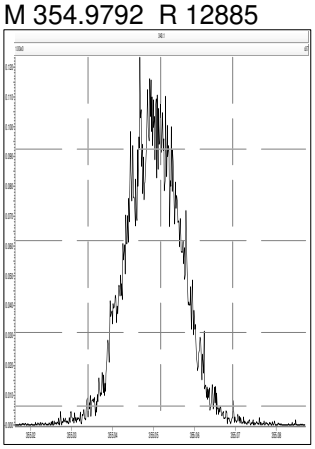
M 330.9792 R 12435



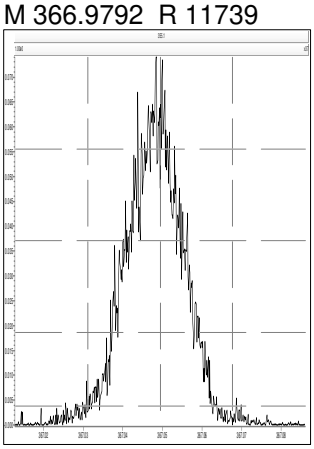
M 342.9792 R 12501



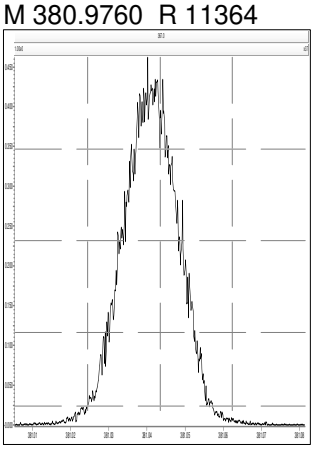
M 354.9792 R 12885



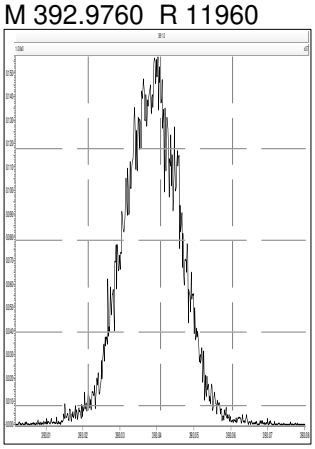
M 366.9792 R 11739



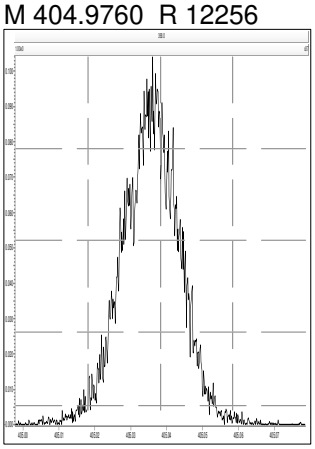
M 380.9760 R 11364



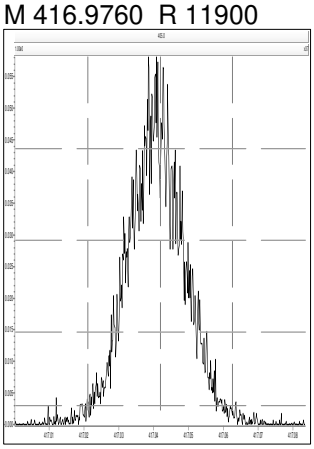
M 392.9760 R 11960



M 404.9760 R 12256



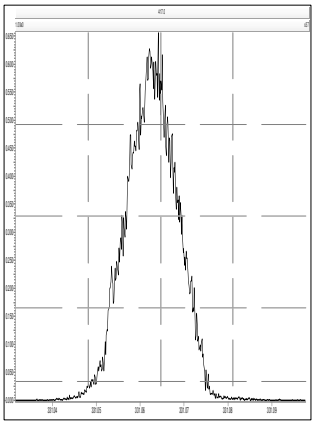
M 416.9760 R 11900



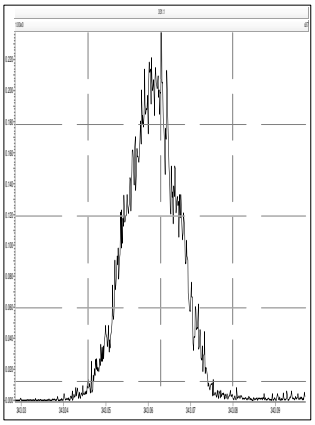
File: Experiment: Dioxin_1613B.exp Reference: Pfk.ref Function: 2 @ 200 (ppm)

Printed: Saturday, October 09, 2021 11:24:14 Eastern Daylight Time

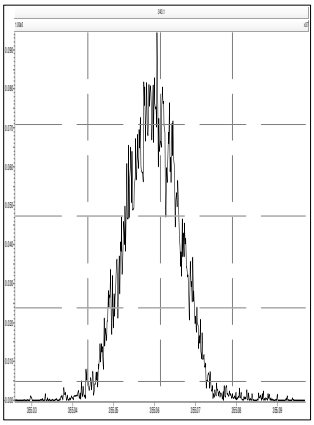
M 330.9792 R 13295



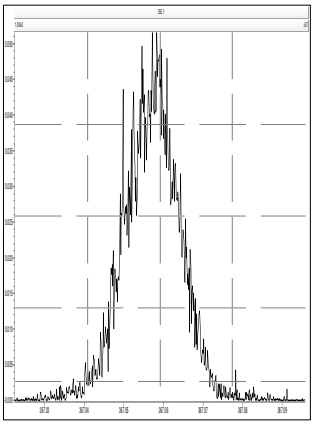
M 342.9792 R 12627



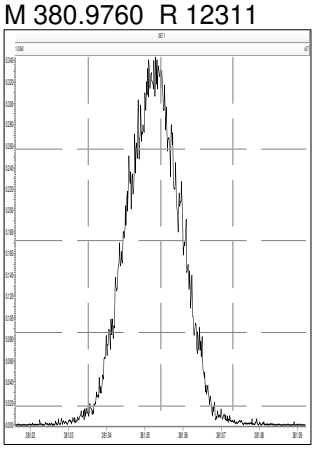
M 354.9792 R 13440



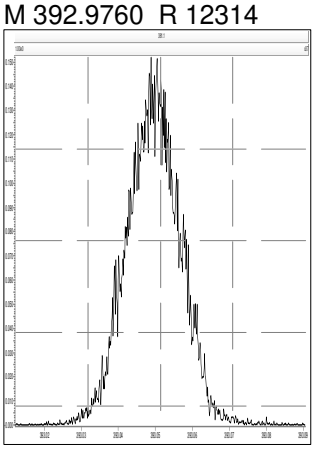
M 366.9792 R 11263



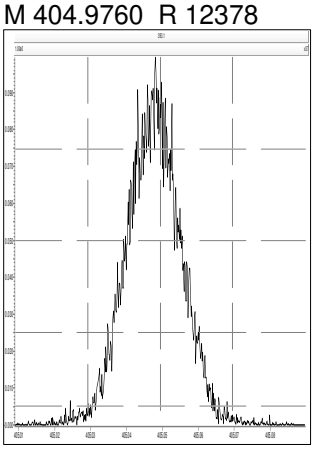
M 380.9760 R 12311



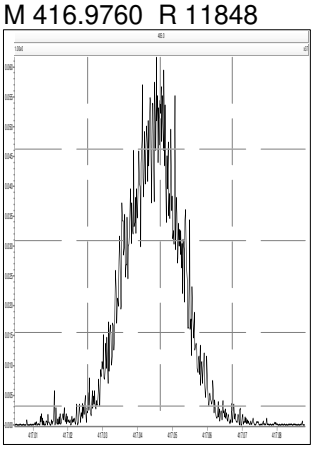
M 392.9760 R 12314



M 404.9760 R 12378



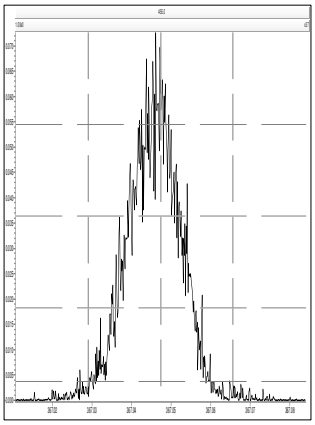
M 416.9760 R 11848



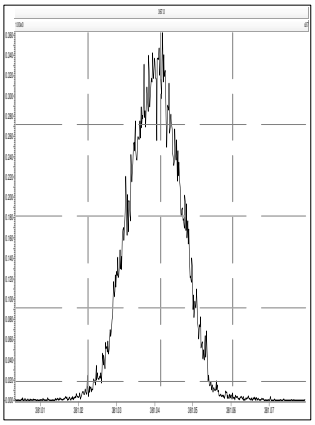
File: Experiment: Dioxin_1613B.exp Reference: Pfk.ref Function: 3 @ 200 (ppm)

Printed: Saturday, October 09, 2021 11:24:40 Eastern Daylight Time

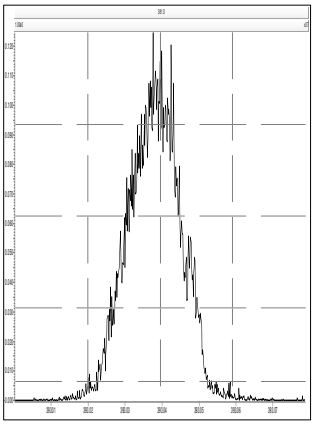
M 366.9792 R 11902



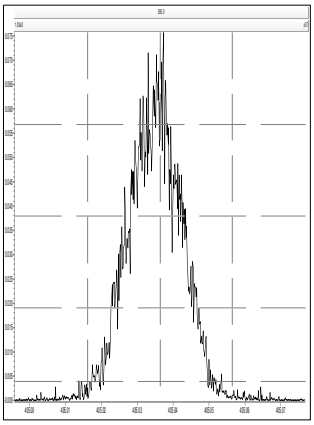
M 380.9760 R 12821



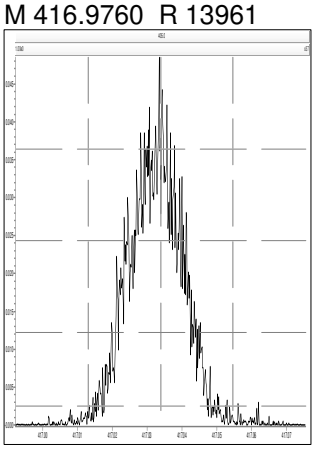
M 392.9760 R 13226



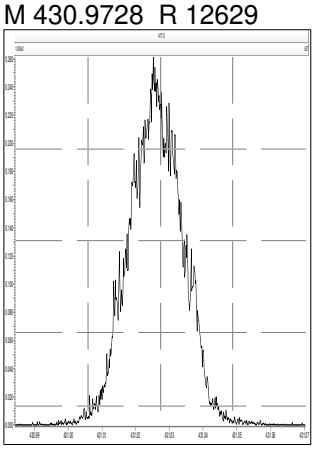
M 404.9760 R 13515



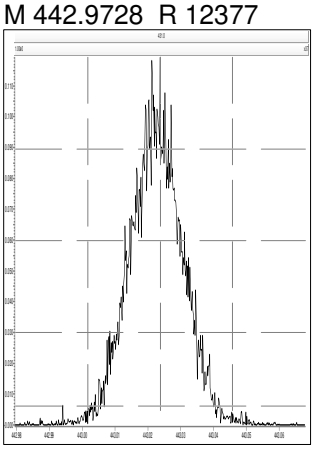
M 416.9760 R 13961



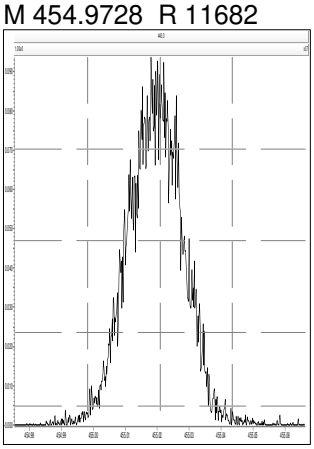
M 430.9728 R 12629



M 442.9728 R 12377



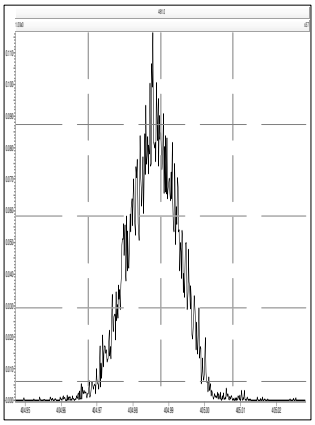
M 454.9728 R 11682



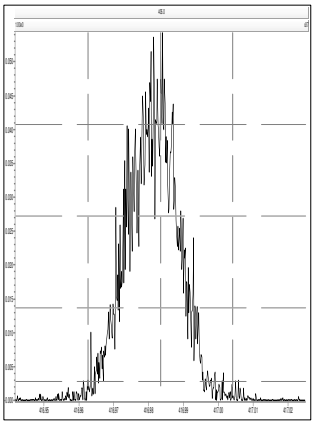
File: Experiment: Dioxin_1613B.exp Reference: Pfk.ref Function: 4 @ 200 (ppm)

Printed: Saturday, October 09, 2021 11:25:14 Eastern Daylight Time

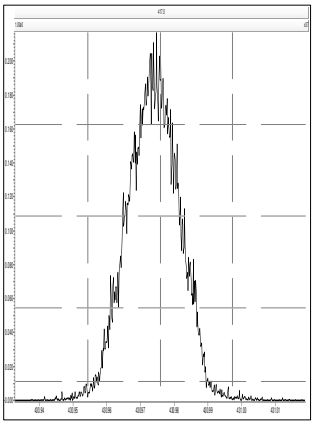
M 404.9760 R 13369



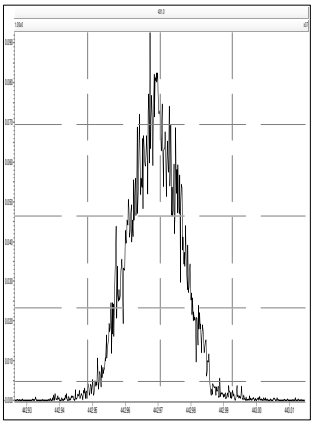
M 416.9760 R 13444



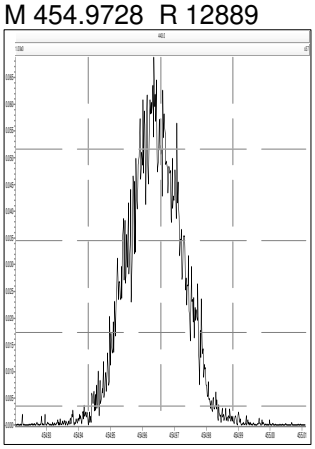
M 430.9728 R 13515



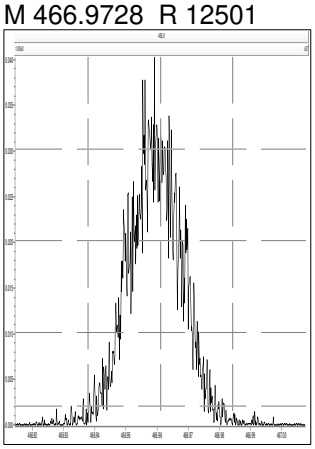
M 442.9728 R 13021



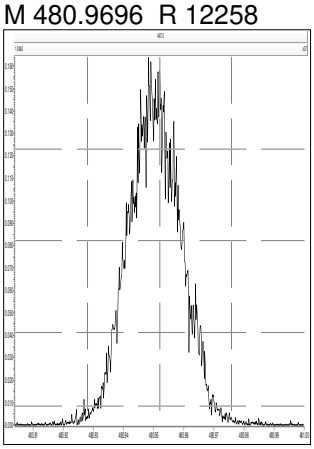
M 454.9728 R 12889



M 466.9728 R 12501



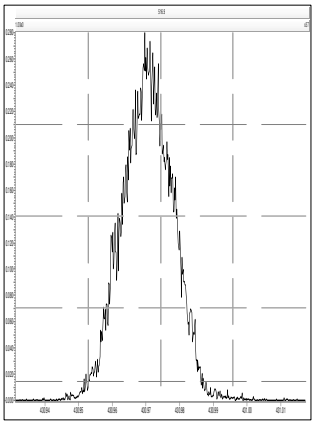
M 480.9696 R 12258



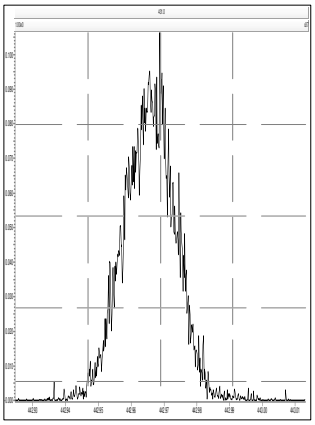
File: Experiment: Dioxin_1613B.exp Reference: Pfk.ref Function: 5 @ 200 (ppm)

Printed: Saturday, October 09, 2021 11:25:32 Eastern Daylight Time

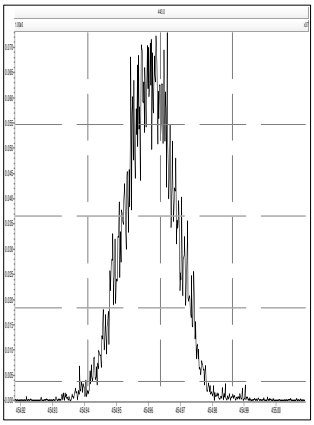
M 430.9728 R 12883



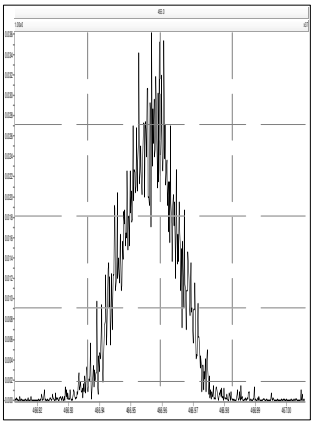
M 442.9728 R 13297



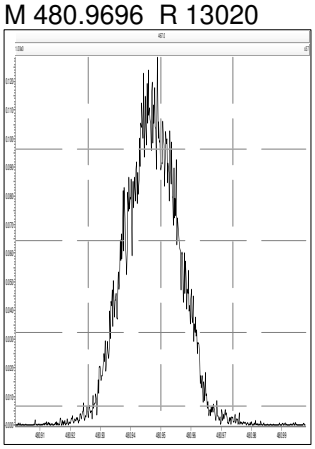
M 454.9728 R 13585



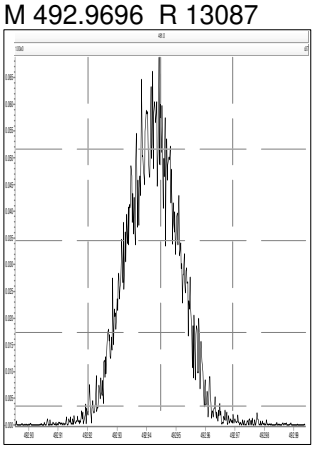
M 466.9728 R 14041



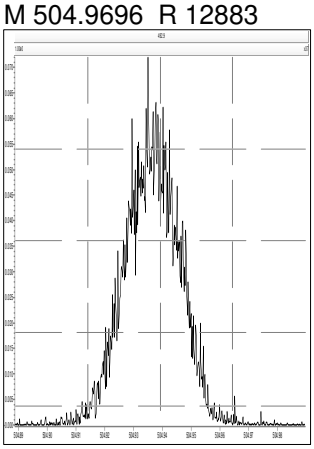
M 480.9696 R 13020



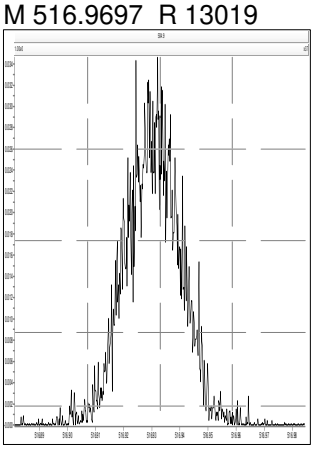
M 492.9696 R 13087



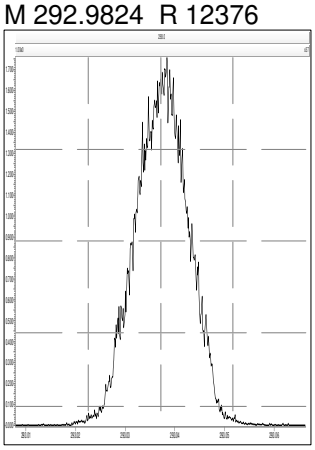
M 504.9696 R 12883



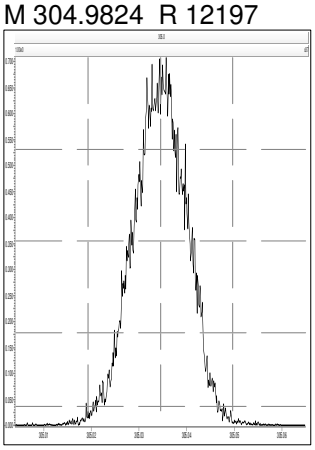
M 516.9697 R 13019



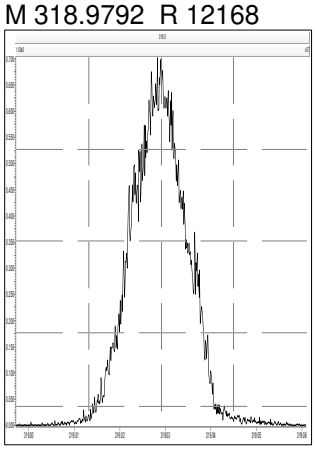
M 292.9824 R 12376



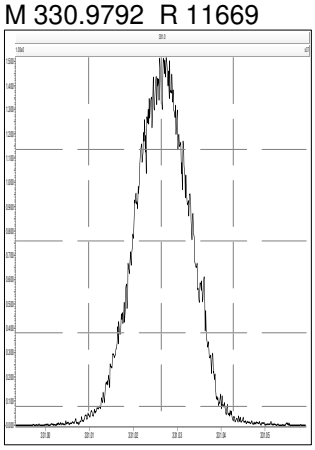
M 304.9824 R 12197



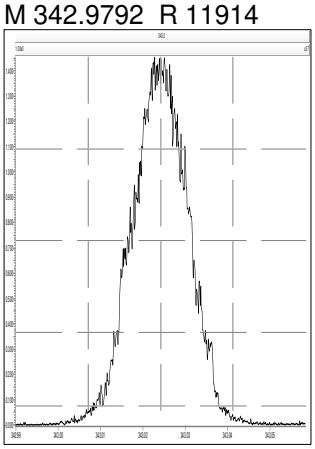
M 318.9792 R 12168



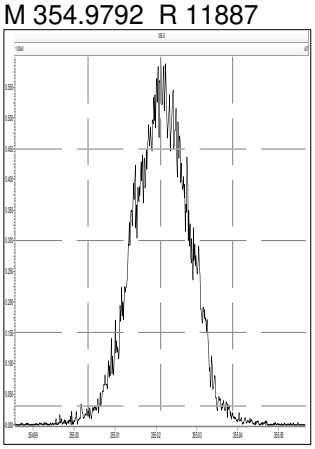
M 330.9792 R 11669



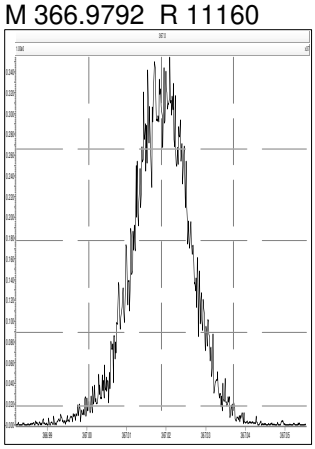
M 342.9792 R 11914



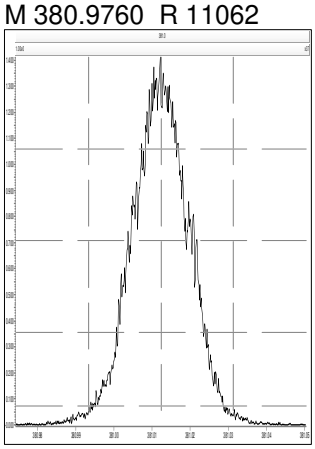
M 354.9792 R 11887



M 366.9792 R 11160



M 380.9760 R 11062



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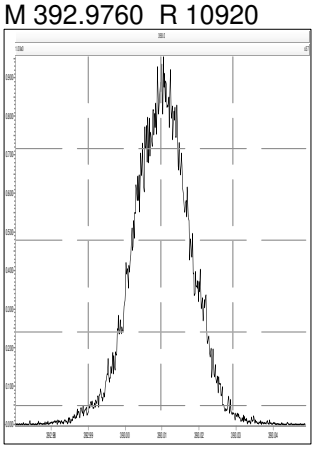
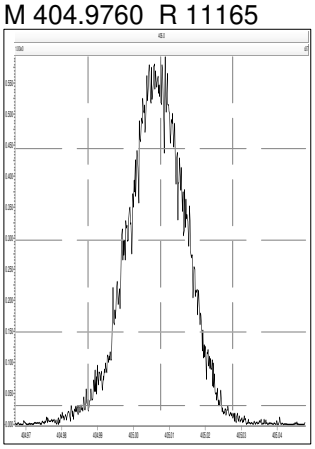
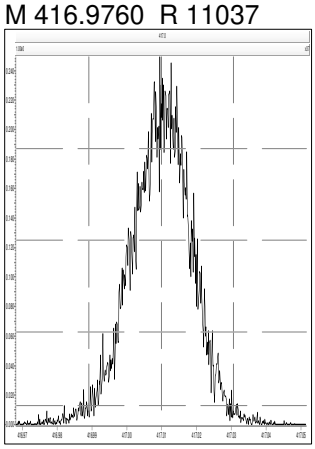


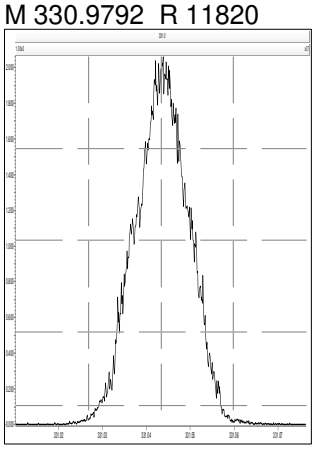
M 404.9760 R 11165



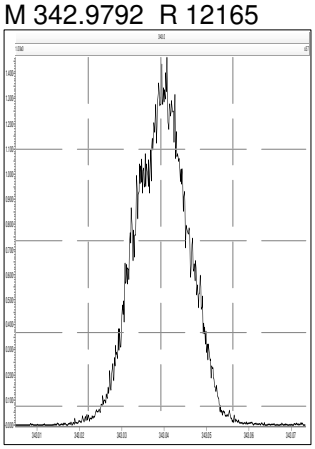
M 416.9760 R 11037



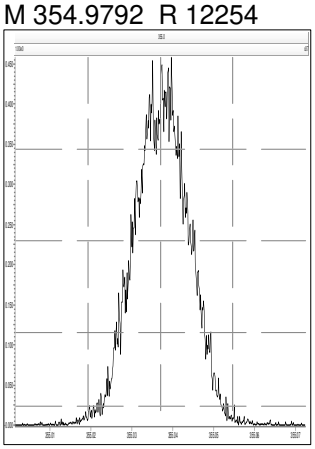
M 330.9792 R 11820



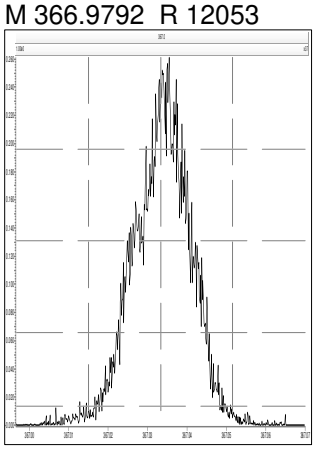
M 342.9792 R 12165



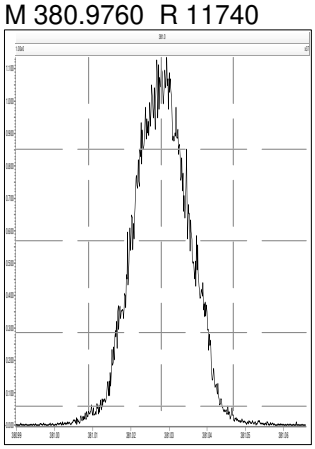
M 354.9792 R 12254



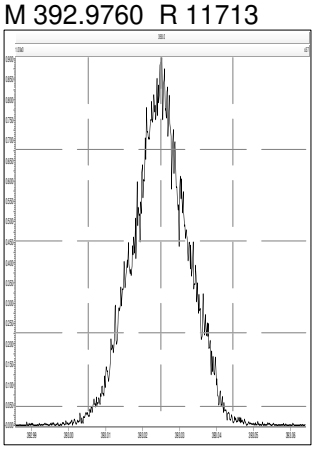
M 366.9792 R 12053



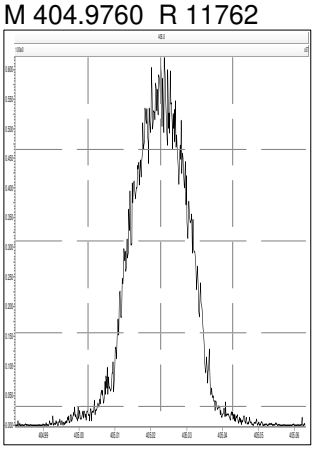
M 380.9760 R 11740



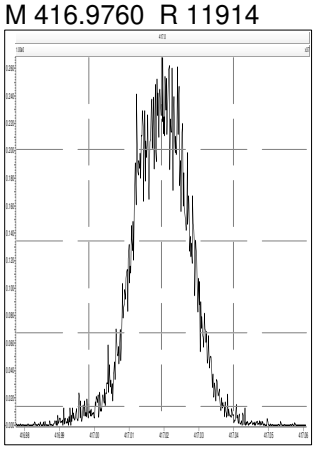
M 392.9760 R 11713



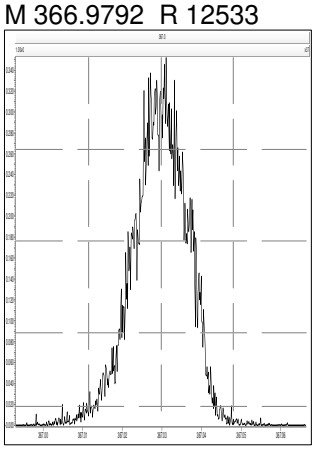
M 404.9760 R 11762



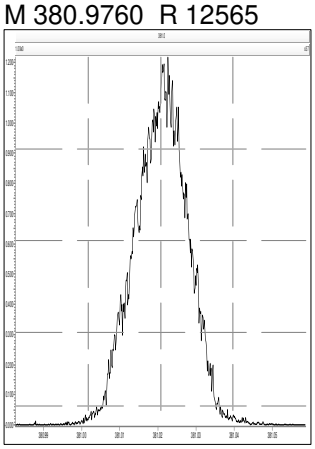
M 416.9760 R 11914



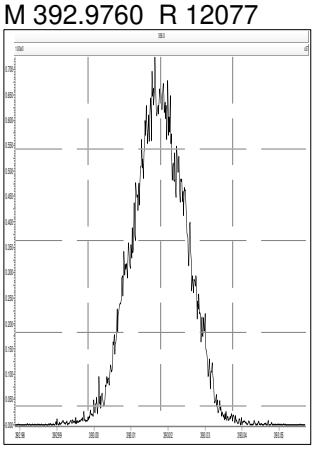
M 366.9792 R 12533



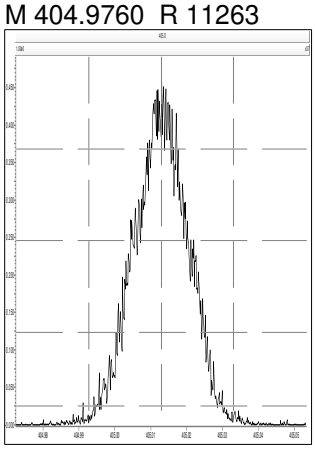
M 380.9760 R 12565



M 392.9760 R 12077



M 404.9760 R 11263



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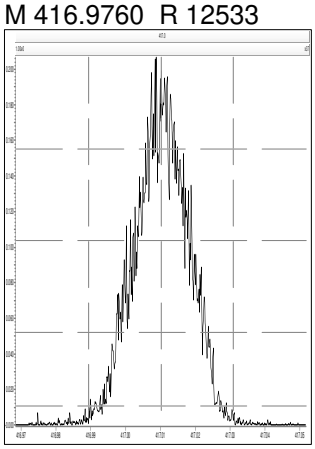
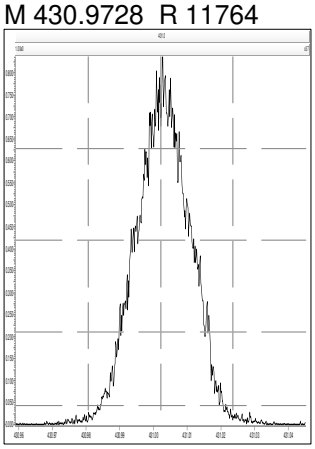
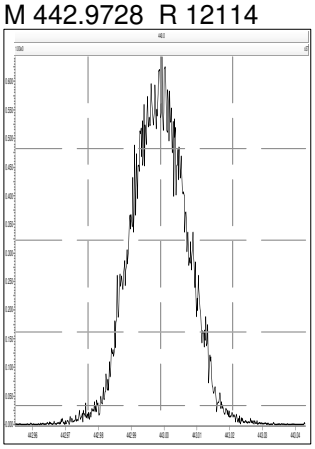


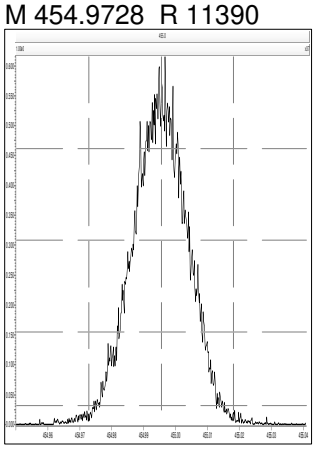
M 430.9728 R 11764



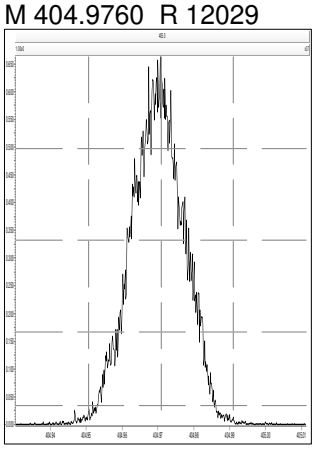
M 442.9728 R 12114



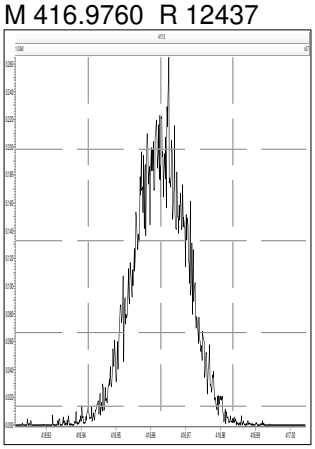
M 454.9728 R 11390



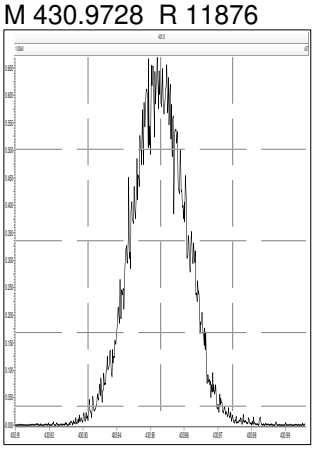
M 404.9760 R 12029



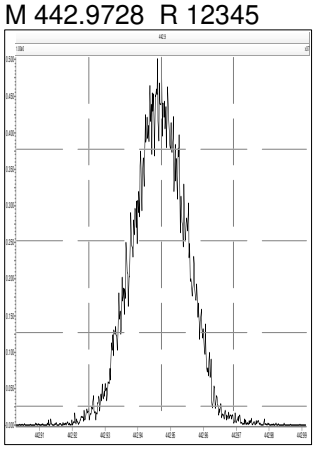
M 416.9760 R 12437



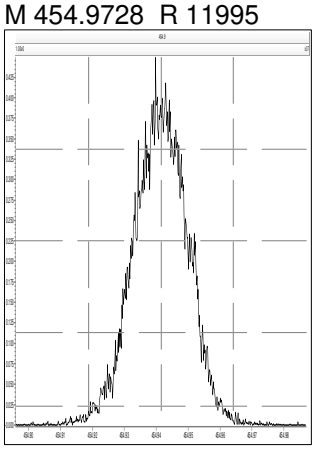
M 430.9728 R 11876



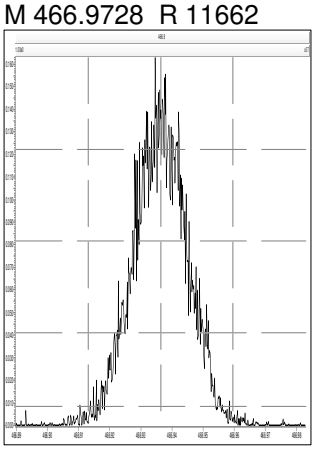
M 442.9728 R 12345



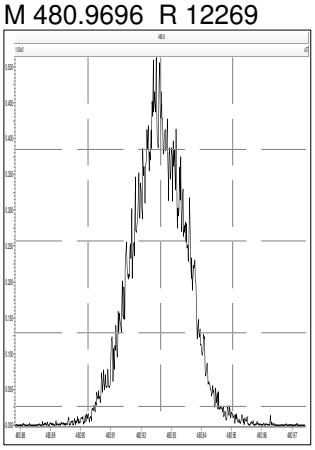
M 454.9728 R 11995



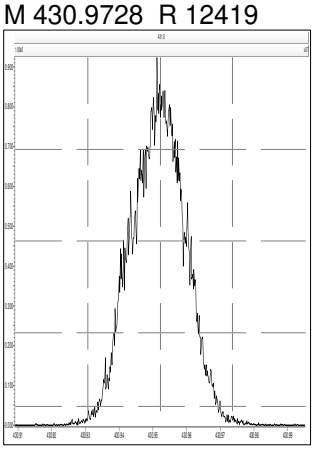
M 466.9728 R 11662



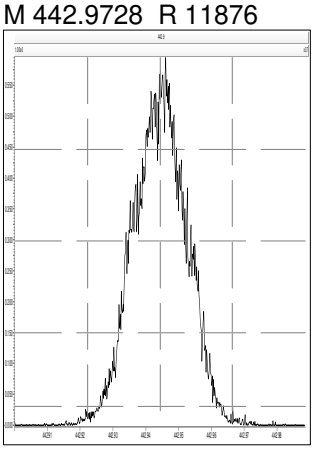
M 480.9696 R 12269



M 430.9728 R 12419



M 442.9728 R 11876



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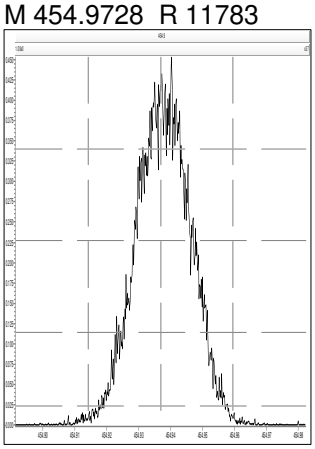

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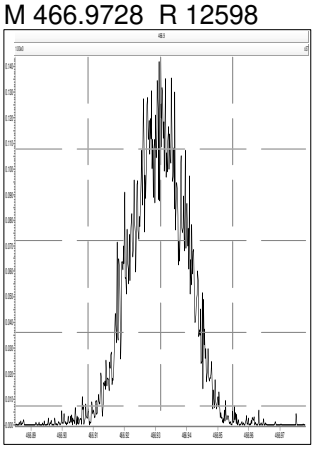
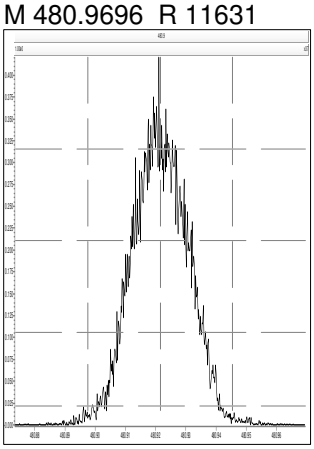
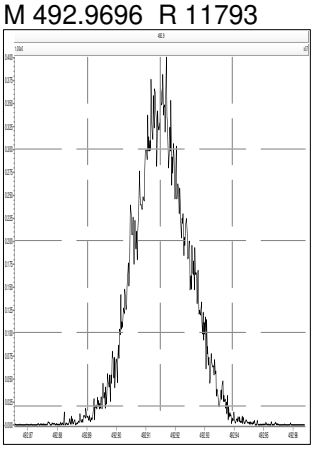


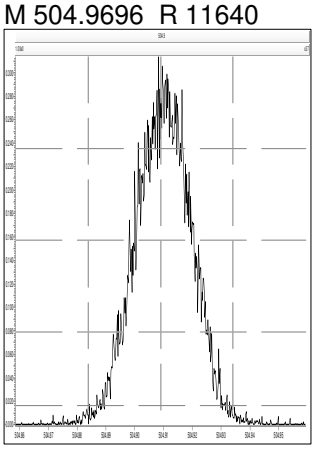
M 480.9696 R 11631



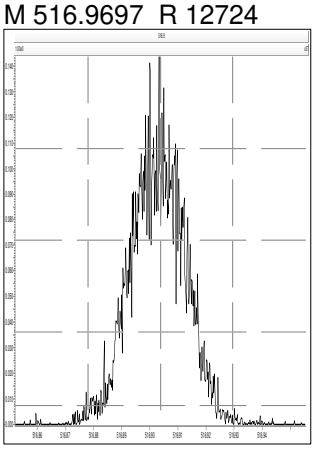
M 492.9696 R 11793



M 504.9696 R 11640



M 516.9697 R 12724



1435 Norjohn Court, Unit 1, Burlington, ON, Canada L7L 0E6

SVOC DATA PACKAGE

APPENDIX 1: INSTRUMENT OUTPUT DOCUMENTS

Including For Each Analytical Sequence::

- The scanned instrument runlogs

- Instrument output (SICP chromatograms) indicating the integrations used for quantification including:
  - GC chromatographic resolution checks, where appropriate
  - SICPs for the run
  - SICP chromatograms indicating both the automated and manual peak integrati where this has been edited

- Reference peak profiles indicating the mass resolution
  - Pre-run mass calibration check printouts
  - Post-run mass calibration check printouts

	File Name	Sample ID	File Text	MS File	Inlet File	Vial
1	7-210611A01	H7-21-CCV-0287	1613B-CS3+PERF-012	Dioxin_1613B	Dioxin_1613B	Tray1:1
2	7-210611A02	H7-21-CS2-0199	1613B-CS2-012	Dioxin_1613B	Dioxin_1613B	Tray1:4
3	7-210611A03	H7-21-CS1-0199	1613B-CS1-012	Dioxin_1613B	Dioxin_1613B	Tray1:5
4	7-210611A04	H7-21-CS0-0199	1613B-CS0-012	Dioxin_1613B	Dioxin_1613B	Tray1:6
5	7-210611A05	H7-21-LOD-0199	1613B-LOD-012	Dioxin_1613B	Dioxin_1613B	Tray1:7
6	7-210611A06	H7-21-CS5-0199	1613B-CS5-012	Dioxin_1613B	Dioxin_1613B	Tray1:8
7	7-210611A07	H7-21-CS4-0199	1613B-CS4-012	Dioxin_1613B	Dioxin_1613B	Tray1:9
8	7-210611A08	H7-21-RS1-0199	1613B-RS1-012	Dioxin_1613B	Dioxin_1613B	Tray1:10
9	---	---	Operator: NA	---	---	---
10	---	---	Detector: 380V	---	---	---
11	---	---	Column : DB5MS-US1221911H	---	---	---

Mass Res ✓
vp ✓
CS1 ✓
S:N ✓
RSD% ✓

	File Name	Sample ID	File Text	Sample Type	Na Conc Te	Na Conc Pe-Hp
1	7-210611A03	H7-21-CS1-0199	1613B-CS1-012	Standard	0.5	2.5
2	7-210611A02	H7-21-CS2-0199	1613B-CS2-012	Standard	2	10
3	7-210611A01	H7-21-CCV-0287	1613B-CS3+PERF-012	Standard	10	50
4	7-210611A07	H7-21-CS4-0199	1613B-CS4-012	Standard	40	200
5	7-210611A06	H7-21-CS5-0199	1613B-CS5-012	Standard	200	1000
6	7-210611A04	H7-21-CS0-0199	1613B-CS0-012	QC	0.1	0.5
7	7-210611A05	H7-21-LOD-0199	1613B-LOD-012	QC	.25	.25
8	7-210611A08	H7-21-RS1-0199	1613B-RS1-012	QC	10	50
9	---	---	Operator: NA	---	---	---
10	---	---	Detector: 380V	---	---	---
11	---	---	Column : DB5MS-US1221911H	---	---	---

Na Conc Oc	ES Conc Te-Hp	ES Conc Oc	Conc IS	Conc CS
5	100	200	100	0.5
20	100	200	100	2
100	100	200	100	10
400	100	200	100	40
2000	100	200	100	200
1	100	200	100	0.1
.5	100	200	100	.25
100	100	200	100	10
---	---	---	---	---
---	---	---	---	---
---	---	---	---	---

Quantify Sample Summary Report **MassLynx MassLynx V4.1 SCN 901**

Dataset: I:\Organics Instrument\HIGHRES GCMS Completed Results Files\HR-7\7-210611A-ICAL-1613.qld

Last Altered: Monday, June 14, 2021 09:35:05 Eastern Daylight Time
Printed: Thursday, June 17, 2021 12:13:23 Eastern Daylight Time

Method: C:\MassLynx\Dioxin.PRO\MethDB\Dioxin_1613B.mdb 08 Jun 2021 10:17:10
Calibration: C:\MassLynx\Dioxin.PRO\CurveDB\7-210611A-CAL5-1613.cdb 14 Jun 2021 09:35:05

Name: 7-210611A03, Date: 11-Jun-2021, Time: 13:54:08, ID: H7-21-CS1-0199, Description: 1613B-CS1-012, Vial: Tray1:5

	Target Analyte	#Hom	Total Area	Ion1 Area	Ion2 Area	Ra	Ra Fail=YES	RT	RRT	RT LCL	RT UCL	pg	%Rec	Mod.Comment	Noise 1	Noise 2
1	2378-TCDD		6020	2790	3230	0.86	NO	28.50	1.00	28.47	28.53	0.50134671	100.3		1788	1161
2	12378-PeCDD		17694	10810	6884	1.57	NO	32.32	1.00	32.28	32.35	2.3810383	95.2		1438	565
3	123478-HxCDD		17970	10403	7567	1.37	NO	34.31	1.00	34.28	34.35	2.4253928	97.0		1119	1089
4	123678-HxCDD		17731	9782	7950	1.23	NO	34.37	1.00	34.33	34.40	2.2885145	91.5		1119	1089
5	123789-HxCDD		17798	10389	7409	1.40	NO	34.49	1.00	34.46	34.53	2.4097661	96.4		1119	1089
6	1234678-HpCDD		16813	8366	8447	0.99	NO	35.98	1.00	35.95	36.02	2.5514853	102.1		1779	1599
7	OCDD		30234	14262	15972	0.89	NO	37.49	1.00	37.46	37.53	5.3040678	106.1		795	809
8	2378-TCDF		7541	3413	4127	0.83	NO	27.60	1.00	27.56	27.63	0.46927791	93.9	NA210614MB	828	1626
9	12378-PeCDF		30557	18213	12344	1.48	NO	31.41	1.00	31.38	31.44	2.3389709	93.6		921	990
10	23478-PeCDF		33590	20388	13203	1.54	NO	32.11	1.00	32.08	32.14	2.4110888	96.4		921	990
11	123478-HxCDF		30411	17112	13299	1.29	NO	33.84	1.00	33.80	33.87	2.2939288	91.8		2545	758
12	123678-HxCDF		35335	19848	15487	1.28	NO	33.90	1.00	33.87	33.93	2.5419838	101.7		2545	758
13	234678-HxCDF		31222	17872	13351	1.34	NO	34.23	1.00	34.19	34.26	2.3931672	95.7		2545	758
14	123789-HxCDF		28004	16253	11752	1.38	NO	34.64	1.00	34.61	34.67	2.5310883	101.2		2545	758
15	1234678-HpCDF		23098	15276	7822	1.95	NO	35.42	1.00	35.39	35.46	2.5256261	101.0		1376	750
16	1234789-HpCDF		19072	12206	6867	1.78	NO	36.24	1.00	36.21	36.28	2.5318045	101.3		1376	750
17	OCDF		36965	17286	19679	0.88	NO	37.59	1.00	37.56	37.63	4.6060120	92.1		758	1314
18	13C-2378-TCDD		1034226	451400	582826	0.77	NO	28.48	1.02	28.45	28.52	99.307847	99.3		4388	1893
19	13C-12378-PeCDD		749560	455234	294326	1.55	NO	32.31	1.16	32.27	32.34	100.26811	100.3		1759	1751
20	13C-123478-HxCDD		713597	398401	315196	1.26	NO	34.30	0.99	34.27	34.34	98.161687	98.2		2895	1726
21	13C-123678-HxCDD		756220	429662	326558	1.32	NO	34.35	1.00	34.32	34.39	99.305075	99.3		2895	1726
22	13C-1234678-HpCDD		633499	322667	310833	1.04	NO	35.98	1.04	35.95	36.02	112.34955	112.3		3411	3987
23	13C-OCDD		1065754	507277	558477	0.91	NO	37.49	1.09	37.46	37.53	277.77014	138.9		2886	3301
24	13C-2378-TCDF		1520861	662186	858676	0.77	NO	27.57	0.99	27.53	27.60	97.803174	97.8		5783	3221
25	13C-12378-PeCDF		1185272	727969	457302	1.59	NO	31.40	1.13	31.37	31.43	96.792737	96.8		2598	1858
26	13C-23478-PeCDF		1143198	701068	442130	1.59	NO	32.10	1.15	32.07	32.13	98.266064	98.3		2598	1858
27	13C-123478-HxCDF		997989	344150	653839	0.53	NO	33.82	0.98	33.79	33.86	97.344009	97.3		3594	2662
28	13C-123678-HxCDF		1067099	377206	689893	0.55	NO	33.90	0.98	33.87	33.93	94.580839	94.6		3594	2662
29	13C-234678-HxCDF		920303	315716	604587	0.52	NO	34.22	0.99	34.18	34.25	96.463596	96.5		3594	2662
30	13C-123789-HxCDF		849006	302458	546548	0.55	NO	34.64	1.00	34.61	34.67	98.659301	98.7		3594	2662
31	13C-1234678-HpCDF		851051	262673	588378	0.45	NO	35.41	1.03	35.38	35.45	108.34976	108.3		2406	6529
32	13C-1234789-HpCDF		680921	217530	463391	0.47	NO	36.23	1.05	36.20	36.27	114.66581	114.7		2406	6529
33	13C-1234-TCDD		885162	381416	503746	0.76	NO	27.80	0.00	27.77	27.83	111.32964	111.3		4388	1893
34	13C-123789-HxCDD		784495	440211	344284	1.28	NO	34.48	0.00	34.45	34.52	124.60707	124.6		2895	1726

Quantify Sample Summary Report **MassLynx MassLynx V4.1 SCN 901**

Dataset: I:\Organics Instrument\HIGHRES GCMS Completed Results Files\HR-7\7-210611A-ICAL-1613.qld

Last Altered: Monday, June 14, 2021 09:35:05 Eastern Daylight Time
Printed: Thursday, June 17, 2021 12:13:23 Eastern Daylight Time

Name: 7-210611A03, Date: 11-Jun-2021, Time: 13:54:08, ID: H7-21-CS1-0199, Description: 1613B-CS1-012, Vial: Tray1:5

	Target Analyte	#Hom	Total Area	Ion1 Area	Ion2 Area	Ra	Ra Fail=YES	RT	RRT	RT LCL	RT UCL	pg	%Rec	Mod.Comment	Noise 1	Noise 2
35	37Cl-2378-TCDD		4892	4892				28.50	1.00	28.47	28.53	0.46084410	92.2		903	
36	Total-Tetradioxins	1		2790								0.50134671			1788	
37	Total-Pentadioxins	1		10810								2.3810383			1438	
38	Total-Hexadioxins	3		30574								7.1236735			1119	
39	Total-Heptadioxins	1		8366								2.5514853			1779	
40	Total-OCDD	1		14262								5.3040678			795	
41	Total-Tetrafurans	1		3413								0.46927791			828	
42	Total-PeCDF-F1			0											675	
43	Total-Pentafurans	2		38601								4.7500597			921	
44	Total-Hexafurans	4		71084								9.7601680			2545	
45	Total-Heptafurans	2		27482								5.0574306			1376	
46	Totals-OCDF	1		17286								4.6060120			758	
47	Totals-37Cl-2378-TCDD	4		5277								0.49706949			903	

Quantify Sample Summary Report **MassLynx MassLynx V4.1 SCN 901**

Dataset: I:\Organics Instrument\HIGHRES GCMS Completed Results Files\HR-7\7-210611A-ICAL-1613.qld

Last Altered: Monday, June 14, 2021 09:35:05 Eastern Daylight Time
Printed: Thursday, June 17, 2021 12:13:23 Eastern Daylight Time

Name: 7-210611A02, Date: 11-Jun-2021, Time: 13:13:45, ID: H7-21-CS2-0199, Description: 1613B-CS2-012, Vial: Tray1:4

	Target Analyte	#Hom	Total Area	Ion1 Area	Ion2 Area	Ra	Ra Fail=YES	RT	RRT	RT LCL	RT UCL	pg	%Rec	Mod.Comment	Noise 1	Noise 2
1	2378-TCDD		18948	8571	10377	0.83	NO	28.54	1.00	28.51	28.58	2.0299886	101.5		2040	1122
2	12378-PeCDD		52865	33177	19688	1.69	NO	32.33	1.00	32.30	32.36	9.6821195	96.8		1394	558
3	123478-HxCDD		53048	29201	23848	1.22	NO	34.32	1.00	34.29	34.36	10.618590	106.2		1437	1344
4	123678-HxCDD		50742	28306	22437	1.26	NO	34.38	1.00	34.34	34.41	10.045464	100.5		1437	1344
5	123789-HxCDD		50319	27339	22980	1.19	NO	34.50	1.00	34.47	34.54	10.278979	102.8		1437	1344
6	1234678-HpCDD		40303	20493	19810	1.03	NO	35.99	1.00	35.96	36.03	9.9165750	99.2		913	673
7	OCDD		50521	24130	26391	0.91	NO	37.50	1.00	37.47	37.54	19.786929	98.9		842	1143
8	2378-TCDF		25186	10003	15183	0.66	NO	27.64	1.00	27.61	27.67	2.0099014	100.5		848	1464
9	12378-PeCDF		98897	62184	36713	1.69	NO	31.43	1.00	31.40	31.46	9.9472138	99.5		1401	1321
10	23478-PeCDF		100476	61975	38501	1.61	NO	32.12	1.00	32.09	32.15	9.7091800	97.1		1401	1321
11	123478-HxCDF		88183	49001	39182	1.25	NO	33.85	1.00	33.81	33.88	9.8221211	98.2		1289	1462
12	123678-HxCDF		95710	54692	41018	1.33	NO	33.92	1.00	33.89	33.95	9.8179192	98.2		1289	1462
13	234678-HxCDF		87346	49152	38193	1.29	NO	34.24	1.00	34.20	34.27	9.9588719	99.6		1289	1462
14	123789-HxCDF		73129	40371	32758	1.23	NO	34.65	1.00	34.62	34.69	9.6768758	96.8		1289	1462
15	1234678-HpCDF		56579	38423	18156	2.12	NO	35.44	1.00	35.40	35.47	10.044841	100.4		1989	1376
16	1234789-HpCDF		44802	28671	16132	1.78	NO	36.26	1.00	36.22	36.29	10.152282	101.5		1989	1376
17	OCDF		70722	34015	36707	0.93	NO	37.60	1.00	37.57	37.63	19.673175	98.4		1635	1431
18	13C-2378-TCDD		803932	352342	451590	0.78	NO	28.53	1.02	28.49	28.56	95.648379	95.6		3114	1949
19	13C-12378-PeCDD		550752	333884	216868	1.54	NO	32.32	1.16	32.28	32.35	91.285736	91.3		1518	1393
20	13C-123478-HxCDD		481173	269199	211974	1.27	NO	34.32	1.00	34.29	34.36	98.532118	98.5		2592	2517
21	13C-123678-HxCDD		493019	275867	217153	1.27	NO	34.37	1.00	34.33	34.40	96.377319	96.4		2592	2517
22	13C-1234678-HpCDD		390710	200212	190499	1.05	NO	35.99	1.04	35.96	36.03	103.14967	103.1		2267	1692
23	13C-OCDD		477388	226394	250994	0.90	NO	37.50	1.09	37.47	37.54	185.21992	92.6		1776	1709
24	13C-2378-TCDF		1186058	518009	668049	0.78	NO	27.61	0.99	27.58	27.64	94.505996	94.5		5666	3255
25	13C-12378-PeCDF		902007	555780	346227	1.61	NO	31.42	1.13	31.39	31.45	91.269276	91.3		1790	1960
26	13C-23478-PeCDF		849183	519150	330034	1.57	NO	32.11	1.15	32.08	32.14	90.442707	90.4		1790	1960
27	13C-123478-HxCDF		675863	234837	441026	0.53	NO	33.84	0.98	33.80	33.87	98.136365	98.1		3242	5190
28	13C-123678-HxCDF		748357	261963	486395	0.54	NO	33.91	0.98	33.88	33.94	98.740464	98.7		3242	5190
29	13C-234678-HxCDF		618684	217865	400819	0.54	NO	34.23	0.99	34.19	34.26	96.535912	96.5		3242	5190
30	13C-123789-HxCDF		579893	201872	378021	0.53	NO	34.64	1.00	34.61	34.67	100.31428	100.3		3242	5190
31	13C-1234678-HpCDF		524153	161229	362924	0.44	NO	35.42	1.03	35.39	35.46	99.338611	99.3		2263	7004
32	13C-1234789-HpCDF		398894	124949	273945	0.46	NO	36.24	1.05	36.21	36.28	99.996022	100.0		2263	7004
33	13C-1234-TCDD		714386	313781	400604	0.78	NO	27.84	0.00	27.81	27.88	89.850546	89.9		3114	1949
34	13C-123789-HxCDD		526990	293783	233207	1.26	NO	34.49	0.00	34.46	34.53	83.705686	83.7		2592	2517
35	37Cl-2378-TCDD		17295	17295				28.54	1.00	28.51	28.58	2.0186184	100.9		826	
36	Total-Tetradioxins	1		8571								2.0299886			2040	
37	Total-Pentadioxins	1		33177								9.6821195			1394	

Dataset: I:\Organics Instrument\HIGHRES GCMS Completed Results Files\HR-7\7-210611A-ICAL-1613.qld

Last Altered: Monday, June 14, 2021 09:35:05 Eastern Daylight Time
Printed: Thursday, June 17, 2021 12:13:23 Eastern Daylight Time

Name: 7-210611A02, Date: 11-Jun-2021, Time: 13:13:45, ID: H7-21-CS2-0199, Description: 1613B-CS2-012, Vial: Tray1:4

	Target Analyte	#Hom	Total Area	Ion1 Area	Ion2 Area	Ra	Ra Fail=YES	RT	RRT	RT LCL	RT UCL	pg	%Rec	Mod.Comment	Noise 1	Noise 2
38	Total-Hexadioxins	3		84845								30.943033			1437	
39	Total-Heptadioxins	1		20493								9.9165750			913	
40	Total-OCDD	1		24130								19.786929			842	
41	Total-Tetrafurans	2		10156								2.0370318			848	
42	Total-PeCDF-F1			0											602	
43	Total-Pentafurans	3		124494								19.709315			1401	
44	Total-Hexafurans	5		193642								39.362977			1289	
45	Total-Heptafurans	2		67094								20.197123			1989	
46	Totals-OCDF	1		34015								19.673175			1635	
47	Totals-37Cl-2378-TCDD	4		17709								2.0669197			826	

Quantify Sample Summary Report **MassLynx MassLynx V4.1 SCN 901**

Dataset: I:\Organics Instrument\HIGHRES GCMS Completed Results Files\HR-7\7-210611A-ICAL-1613.qld

Last Altered: Monday, June 14, 2021 09:35:05 Eastern Daylight Time
Printed: Thursday, June 17, 2021 12:13:23 Eastern Daylight Time

Name: 7-210611A01, Date: 11-Jun-2021, Time: 12:07:42, ID: H7-21-CCV-0287, Description: 1613B-CS3+PERF-012, Vial: Tray1:1

	Target Analyte	#Hom	Total Area	Ion1 Area	Ion2 Area	Ra	Ra Fail=YES	RT	RRT	RT LCL	RT UCL	pg	%Rec	Mod.Comment	Noise 1	Noise 2
1	2378-TCDD		146279	64594	81685	0.79	NO	28.54	1.00	28.51	28.58	9.6813160	96.8		2382	1288
2	12378-PeCDD		454849	281224	173625	1.62	NO	32.33	1.00	32.30	32.36	49.421125	98.8		1545	2216
3	123478-HxCDD		395249	232036	163213	1.42	NO	34.32	1.00	34.29	34.36	47.774904	95.5		2438	2693
4	123678-HxCDD		397645	210977	186667	1.13	NO	34.38	1.00	34.34	34.41	50.019032	100.0		2438	2693
5	123789-HxCDD		392988	218208	174780	1.25	NO	34.50	1.00	34.47	34.54	49.724965	99.4		2438	2693
6	1234678-HpCDD		283487	144963	138524	1.05	NO	35.99	1.00	35.96	36.03	50.378625	100.8		2803	2614
7	OCDD		350355	167010	183345	0.91	NO	37.51	1.00	37.48	37.54	98.259358	98.3		2381	1424
8	2378-TCDF		212507	95476	117031	0.82	NO	27.63	1.00	27.59	27.66	10.098762	101.0		1150	2721
9	12378-PeCDF		886879	546193	340687	1.60	NO	31.43	1.00	31.40	31.46	49.593395	99.2		2369	3133
10	23478-PeCDF		897816	552429	345386	1.60	NO	32.12	1.00	32.09	32.15	51.046866	102.1		2369	3133
11	123478-HxCDF		760821	425930	334892	1.27	NO	33.85	1.00	33.81	33.88	50.232840	100.5		5520	7855
12	123678-HxCDF		750697	420352	330345	1.27	NO	33.91	1.00	33.88	33.94	48.326583	96.7		5520	7855
13	234678-HxCDF		758581	421852	336729	1.25	NO	34.24	1.00	34.20	34.27	49.631977	99.3		5520	7855
14	123789-HxCDF		577247	324496	252751	1.28	NO	34.65	1.00	34.62	34.69	48.989963	98.0		5520	7855
15	1234678-HpCDF		422607	278321	144286	1.93	NO	35.44	1.00	35.40	35.47	48.965894	97.9		2928	2632
16	1234789-HpCDF		314696	207820	106876	1.94	NO	36.26	1.00	36.22	36.29	47.930505	95.9		2928	2632
17	OCDF		480301	231658	248643	0.93	NO	37.60	1.00	37.57	37.63	95.674112	95.7		1527	3276
18	13C-2378-TCDD		1301342	562177	739165	0.76	NO	28.51	1.02	28.48	28.55	99.703898	99.7		3808	2421
19	13C-12378-PeCDD		928347	560894	367453	1.53	NO	32.32	1.16	32.28	32.35	99.087598	99.1		2643	1888
20	13C-123478-HxCDD		796835	446250	350585	1.27	NO	34.31	0.99	34.28	34.35	105.19369	105.2		2611	3122
21	13C-123678-HxCDD		775933	435194	340739	1.28	NO	34.37	1.00	34.33	34.40	97.786627	97.8		2611	3122
22	13C-1234678-HpCDD		540966	279404	261562	1.07	NO	35.99	1.04	35.96	36.03	92.071945	92.1		3360	2104
23	13C-OCDD		666668	314535	352133	0.89	NO	37.50	1.09	37.47	37.54	166.75168	83.4		2815	1433
24	13C-2378-TCDF		1991695	878268	1113428	0.79	NO	27.61	0.99	27.58	27.64	102.19714	102.2		6384	3627
25	13C-12378-PeCDF		1622438	998914	623524	1.60	NO	31.42	1.13	31.39	31.45	105.71714	105.7		2830	2209
26	13C-23478-PeCDF		1443244	891857	551387	1.62	NO	32.11	1.15	32.08	32.14	98.986100	99.0		2830	2209
27	13C-123478-HxCDF		1140188	396586	743602	0.53	NO	33.84	0.98	33.80	33.87	106.73134	106.7		3655	4707
28	13C-123678-HxCDF		1192476	425062	767414	0.55	NO	33.90	0.98	33.87	33.93	101.43326	101.4		3655	4707
29	13C-234678-HxCDF		1078145	380505	697639	0.55	NO	34.23	0.99	34.19	34.26	108.45310	108.5		3655	4707
30	13C-123789-HxCDF		904160	318061	586099	0.54	NO	34.64	1.00	34.61	34.67	100.83352	100.8		3655	4707
31	13C-1234678-HpCDF		803137	250949	552188	0.45	NO	35.42	1.03	35.39	35.46	98.128369	98.1		3036	2733
32	13C-1234789-HpCDF		593472	181973	411500	0.44	NO	36.24	1.05	36.21	36.28	95.911395	95.9		3036	2733
33	13C-1234-TCDD		1109354	486991	622363	0.78	NO	27.83	0.00	27.80	27.86	139.52700	139.5		3808	2421
34	13C-123789-HxCDD		817443	451177	366266	1.23	NO	34.49	0.00	34.46	34.53	129.84057	129.8		2611	3122
35	37Cl-2378-TCDD		128578	128578				28.54	1.00	28.51	28.58	9.6640474	96.6		927	
36	Total-Tetradioxins	8		296096								44.546050			2382	
37	Total-Pentadioxins	3		871753								153.61773			1545	

Dataset: I:\Organics Instrument\HIGHRES GCMS Completed Results Files\HR-7\7-210611A-ICAL-1613.qld

Last Altered: Monday, June 14, 2021 09:35:05 Eastern Daylight Time
Printed: Thursday, June 17, 2021 12:13:23 Eastern Daylight Time

Name: 7-210611A01, Date: 11-Jun-2021, Time: 12:07:42, ID: H7-21-CCV-0287, Description: 1613B-CS3+PERF-012, Vial: Tray1:1

	Target Analyte	#Hom	Total Area	Ion1 Area	Ion2 Area	Ra	Ra Fail=YES	RT	RRT	RT LCL	RT UCL	pg	%Rec	Mod.Comment	Noise 1	Noise 2
38	Total-Hexadioxins	4		902527								201.26427			2438	
39	Total-Heptadioxins	2		289878								100.10766			2803	
40	Total-OCDD	2		167497								98.553470			2381	
41	Total-Tetrafurans	6		471075								51.275342			1150	
42	Total-PeCDF-F1	1		517498								54.999240			748	
43	Total-Pentafurans	5		1578184								144.43482			2369	
44	Total-Hexafurans	6		1767709								218.83531			5520	
45	Total-Heptafurans	2		486141								96.896399			2928	
46	Totals-OCDF	1		231658								95.674112			1527	
47	Totals-37Cl-2378-TCDD	10		130892								9.8379840			927	

Quantify Sample Summary Report **MassLynx MassLynx V4.1 SCN 901**

Dataset: I:\Organics Instrument\HIGHRES GCMS Completed Results Files\HR-7\7-210611A-ICAL-1613.qld

Last Altered: Monday, June 14, 2021 09:35:05 Eastern Daylight Time
Printed: Thursday, June 17, 2021 12:13:23 Eastern Daylight Time

Name: 7-210611A07, Date: 11-Jun-2021, Time: 16:48:17, ID: H7-21-CS4-0199, Description: 1613B-CS4-012, Vial: Tray1:9

	Target Analyte	#Hom	Total Area	Ion1 Area	Ion2 Area	Ra	Ra Fail=YES	RT	RRT	RT LCL	RT UCL	pg	%Rec	Mod.Comment	Noise 1	Noise 2
1	2378-TCDD		358813	158117	200696	0.79	NO	28.51	1.00	28.48	28.55	40.161883	100.4		1480	1211
2	12378-PeCDD		1146537	711413	435124	1.63	NO	32.32	1.00	32.28	32.35	211.45293	105.7		766	961
3	123478-HxCDD		967785	537141	430644	1.25	NO	34.31	1.00	34.28	34.35	215.49717	107.7		3991	2158
4	123678-HxCDD		1044493	587283	457210	1.28	NO	34.37	1.00	34.33	34.40	199.30511	99.7		3991	2158
5	123789-HxCDD		980962	546106	434857	1.26	NO	34.49	1.00	34.46	34.53	206.78275	103.4		3991	2158
6	1234678-HpCDD		714885	370825	344060	1.08	NO	35.99	1.00	35.96	36.03	201.54183	100.8		2675	1701
7	OCDD		870284	411445	458840	0.90	NO	37.50	1.00	37.47	37.54	406.60238	101.7		2771	3940
8	2378-TCDF		501256	220290	280966	0.78	NO	27.60	1.00	27.56	27.63	41.068294	102.7		1064	2035
9	12378-PeCDF		2031754	1248304	783451	1.59	NO	31.41	1.00	31.38	31.44	208.23144	104.1		5750	4032
10	23478-PeCDF		2194391	1345037	849354	1.58	NO	32.11	1.00	32.08	32.14	206.32765	103.2		5750	4032
11	123478-HxCDF		1801012	1001303	799709	1.25	NO	33.84	1.00	33.80	33.87	209.14836	104.6		4619	4636
12	123678-HxCDF		2007369	1137369	869999	1.31	NO	33.91	1.00	33.88	33.94	205.64902	102.8		4619	4636
13	234678-HxCDF		1785448	987319	798129	1.24	NO	34.23	1.00	34.19	34.26	207.56734	103.8		4619	4636
14	123789-HxCDF		1486961	841294	645667	1.30	NO	34.65	1.00	34.62	34.69	206.36663	103.2		4619	4636
15	1234678-HpCDF		1072276	699091	373185	1.87	NO	35.42	1.00	35.39	35.46	204.33367	102.2		11103	2950
16	1234789-HpCDF		808880	525097	283783	1.85	NO	36.24	1.00	36.21	36.28	209.53965	104.8		11103	2950
17	OCDF		1348843	634017	714825	0.89	NO	37.59	1.00	37.56	37.63	447.59531	111.9		5557	4564
18	13C-2378-TCDD		769482	338514	430968	0.79	NO	28.50	1.03	28.47	28.53	100.18259	100.2		2608	1620
19	13C-12378-PeCDD		546927	329342	217585	1.51	NO	32.31	1.16	32.27	32.34	99.200072	99.2		2115	984
20	13C-123478-HxCDD		432549	243547	189001	1.29	NO	34.31	0.99	34.28	34.35	91.364304	91.4		3449	3922
21	13C-123678-HxCDD		511507	285409	226098	1.26	NO	34.37	1.00	34.33	34.40	103.14009	103.1		3449	3922
22	13C-1234678-HpCDD		341000	176520	164480	1.07	NO	35.98	1.04	35.95	36.02	92.860712	92.9		3998	3715
23	13C-OCDD		400190	189320	210870	0.90	NO	37.49	1.09	37.46	37.53	160.15749	80.1		1931	3383
24	13C-2378-TCDF		1155237	506169	649068	0.78	NO	27.58	0.99	27.55	27.62	100.73033	100.7		4839	2629
25	13C-12378-PeCDF		885222	545049	340173	1.60	NO	31.40	1.13	31.37	31.43	98.017307	98.0		3655	1549
26	13C-23478-PeCDF		872726	537609	335118	1.60	NO	32.10	1.15	32.07	32.13	101.71522	101.7		3655	1549
27	13C-123478-HxCDF		648251	231695	416557	0.56	NO	33.82	0.98	33.79	33.86	97.091156	97.1		2606	3441
28	13C-123678-HxCDF		749327	258497	490830	0.53	NO	33.90	0.98	33.87	33.93	101.98184	102.0		2606	3441
29	13C-234678-HxCDF		606771	211821	394950	0.54	NO	34.22	0.99	34.18	34.25	97.658581	97.7		2606	3441
30	13C-123789-HxCDF		552905	197266	355640	0.55	NO	34.64	1.00	34.61	34.67	98.657703	98.7		2606	3441
31	13C-1234678-HpCDF		488330	151075	337254	0.45	NO	35.41	1.03	35.38	35.45	95.463738	95.5		3270	9204
32	13C-1234789-HpCDF		348931	111827	237105	0.47	NO	36.23	1.05	36.20	36.27	90.225667	90.2		3270	9204
33	13C-1234-TCDD		652825	285331	367495	0.78	NO	27.80	0.00	27.77	27.83	82.107917	82.1		2608	1620
34	13C-123789-HxCDD		510901	277725	233177	1.19	NO	34.49	0.00	34.46	34.53	81.150258	81.2		3449	3922
35	37Cl-2378-TCDD		316155	316155				28.51	1.00	28.48	28.55	40.379997	100.9		1104	
36	Total-Tetradioxins	1		158117								40.161883			1480	
37	Total-Pentadioxins	4		714214								212.29369			766	

Quantify Sample Summary Report **MassLynx MassLynx V4.1 SCN 901**

Dataset: I:\Organics Instrument\HIGHRES GCMS Completed Results Files\HR-7\7-210611A-ICAL-1613.qld

Last Altered: Monday, June 14, 2021 09:35:05 Eastern Daylight Time
Printed: Thursday, June 17, 2021 12:13:23 Eastern Daylight Time

Name: 7-210611A07, Date: 11-Jun-2021, Time: 16:48:17, ID: H7-21-CS4-0199, Description: 1613B-CS4-012, Vial: Tray1:9

	Target Analyte	#Hom	Total Area	Ion1 Area	Ion2 Area	Ra	Ra Fail=YES	RT	RRT	RT LCL	RT UCL	pg	%Rec	Mod.Comment	Noise 1	Noise 2
38	Total-Hexadioxins	4		1671097								621.78912			3991	
39	Total-Heptadioxins	2		374580								203.62843			2675	
40	Total-OCDD	1		411445								406.60238			2771	
41	Total-Tetrafurans	4		224029								41.776362			1064	
42	Total-PeCDF-F1			0								0.00000000			1083	
43	Total-Pentafurans	5		2607903								416.84223			5750	
44	Total-Hexafurans	6		3970432								829.37601			4619	
45	Total-Heptafurans	3		1229464								415.47435			11103	
46	Totals-OCDF	1		634017								447.59531			5557	
47	Totals-37Cl-2378-TCDD	5		317114								40.502469			1104	

Quantify Sample Summary Report **MassLynx MassLynx V4.1 SCN 901**

Dataset: I:\Organics Instrument\HIGHRES GCMS Completed Results Files\HR-7\7-210611A-ICAL-1613.qld

Last Altered: Monday, June 14, 2021 09:35:05 Eastern Daylight Time
Printed: Thursday, June 17, 2021 12:13:23 Eastern Daylight Time

Name: 7-210611A06, Date: 11-Jun-2021, Time: 16:04:38, ID: H7-21-CS5-0199, Description: 1613B-CS5-012, Vial: Tray1:8

	Target Analyte	#Hom	Total Area	Ion1 Area	Ion2 Area	Ra	Ra Fail=YES	RT	RRT	RT LCL	RT UCL	pg	%Rec	Mod.Comment	Noise 1	Noise 2
1	2378-TCDD		1780973	783996	996977	0.79	NO	28.51	1.00	28.48	28.55	202.02672	101.0		1866	1322
2	12378-PeCDD		5850813	3614095	2236718	1.62	NO	32.32	1.00	32.28	32.35	1033.6856	103.4		1393	871
3	123478-HxCDD		4878624	2716943	2161681	1.26	NO	34.32	1.00	34.29	34.36	935.00001	93.5		3291	2560
4	123678-HxCDD		5658373	3158440	2499933	1.26	NO	34.38	1.00	34.34	34.41	1083.1416	108.3		3291	2560
5	123789-HxCDD		4984694	2768049	2216645	1.25	NO	34.50	1.00	34.47	34.54	979.78263	98.0		3291	2560
6	1234678-HpCDD		3677889	1911822	1766067	1.08	NO	35.99	1.00	35.96	36.03	972.46673	97.2		2932	5102
7	OCDD		5309187	2512587	2796600	0.90	NO	37.51	1.00	37.48	37.54	1901.4809	95.1		3203	5632
8	2378-TCDF		2434114	1072332	1361782	0.79	NO	27.61	1.00	27.58	27.64	203.98200	102.0		1555	2330
9	12378-PeCDF		10496617	6420038	4076579	1.57	NO	31.42	1.00	31.39	31.45	1036.6652	103.7		4479	3905
10	23478-PeCDF		11001310	6765077	4236233	1.60	NO	32.12	1.00	32.09	32.15	1012.0709	101.2		4479	3905
11	123478-HxCDF		9323475	5216865	4106610	1.27	NO	33.85	1.00	33.81	33.88	1049.8178	105.0		6640	3117
12	123678-HxCDF		9893786	5537609	4356177	1.27	NO	33.91	1.00	33.88	33.94	1006.6378	100.7		6640	3117
13	234678-HxCDF		8981251	5027709	3953542	1.27	NO	34.24	1.00	34.20	34.27	1016.3697	101.6		6640	3117
14	123789-HxCDF		7434916	4154792	3280124	1.27	NO	34.65	1.00	34.62	34.69	1008.2447	100.8		6640	3117
15	1234678-HpCDF		5311458	3478632	1832827	1.90	NO	35.42	1.00	35.39	35.46	984.27920	98.4		13013	10225
16	1234789-HpCDF		4075958	2674537	1401422	1.91	NO	36.24	1.00	36.21	36.28	965.74163	96.6		13013	10225
17	OCDF		8014920	3839567	4175353	0.92	NO	37.60	1.00	37.57	37.63	2038.8189	101.9		6348	5876
18	13C-2378-TCDD		759264	327810	431453	0.76	NO	28.50	1.02	28.47	28.53	105.15729	105.2		2759	2343
19	13C-12378-PeCDD		570930	348621	222309	1.57	NO	32.31	1.16	32.27	32.34	110.15849	110.2		1974	1264
20	13C-123478-HxCDD		502555	282605	219949	1.28	NO	34.31	0.99	34.28	34.35	106.74820	106.7		2593	2019
21	13C-123678-HxCDD		509883	287033	222851	1.29	NO	34.37	1.00	34.33	34.40	103.39089	103.4		2593	2019
22	13C-1234678-HpCDD		363586	182508	181078	1.01	NO	35.98	1.04	35.95	36.02	99.568128	99.6		1924	2934
23	13C-OCDD		522048	244526	277523	0.88	NO	37.50	1.09	37.47	37.54	210.10077	105.1		1613	3282
24	13C-2378-TCDF		1129452	500672	628779	0.80	NO	27.58	0.99	27.55	27.62	104.76337	104.8		5566	3267
25	13C-12378-PeCDF		918625	561672	356953	1.57	NO	31.41	1.13	31.38	31.44	108.20354	108.2		1993	1826
26	13C-23478-PeCDF		891980	545703	346277	1.58	NO	32.11	1.15	32.08	32.14	110.58991	110.6		1993	1826
27	13C-123478-HxCDF		668568	233782	434786	0.54	NO	33.84	0.98	33.80	33.87	100.69712	100.7		3375	2864
28	13C-123678-HxCDF		754502	264859	489643	0.54	NO	33.90	0.98	33.87	33.93	103.26360	103.3		3375	2864
29	13C-234678-HxCDF		623336	221773	401563	0.55	NO	34.23	0.99	34.19	34.26	100.88881	100.9		3375	2864
30	13C-123789-HxCDF		565849	198811	367038	0.54	NO	34.64	1.00	34.61	34.67	101.53519	101.5		3375	2864
31	13C-1234678-HpCDF		502160	159832	342328	0.47	NO	35.42	1.03	35.39	35.46	98.719526	98.7		4058	6450
32	13C-1234789-HpCDF		381497	122231	259265	0.47	NO	36.24	1.05	36.21	36.28	99.201102	99.2		4058	6450
33	13C-1234-TCDD		613683	264275	349408	0.76	NO	27.82	0.00	27.78	27.85	77.184891	77.2		2759	2343
34	13C-123789-HxCDD		508044	284915	223129	1.28	NO	34.49	0.00	34.46	34.53	80.696420	80.7		2593	2019
35	37Cl-2378-TCDD		1609054	1609054				28.51	1.00	28.48	28.55	218.61959	109.3		1606	
36	Total-Tetradioxins	3		801486								206.53423			1866	
37	Total-Pentadioxins	4		3623893								1036.5100			1393	

Quantify Sample Summary Report **MassLynx MassLynx V4.1 SCN 901**

Dataset: I:\Organics Instrument\HIGHRES GCMS Completed Results Files\HR-7\7-210611A-ICAL-1613.qld

Last Altered: Monday, June 14, 2021 09:35:05 Eastern Daylight Time
Printed: Thursday, June 17, 2021 12:13:23 Eastern Daylight Time

Name: 7-210611A06, Date: 11-Jun-2021, Time: 16:04:38, ID: H7-21-CS5-0199, Description: 1613B-CS5-012, Vial: Tray1:8

	Target Analyte	#Hom	Total Area	Ion1 Area	Ion2 Area	Ra	Ra Fail=YES	RT	RRT	RT LCL	RT UCL	pg	%Rec	Mod.Comment	Noise 1	Noise 2
38	Total-Hexadioxins	3		8643432								2997.9242			3291	
39	Total-Heptadioxins	2		1931135								982.09954			2932	
40	Total-OCDD	4		2513266								1901.6932			3203	
41	Total-Tetrafurans	4		1090673								207.52349			1555	
42	Total-PeCDF-F1			0											570	
43	Total-Pentafurans	8		13260586								2060.3183			4479	
44	Total-Hexafurans	7		19992138								4092.0887			6640	
45	Total-Heptafurans	4		6184217								1958.5701			13013	
46	Totals-OCDF	3		3840286								2039.2134			6348	
47	Totals-37Cl-2378-TCDD	5		1609830								218.72496			1606	

Quantify Sample Report **MassLynx MassLynx V4.1 SCN 901**

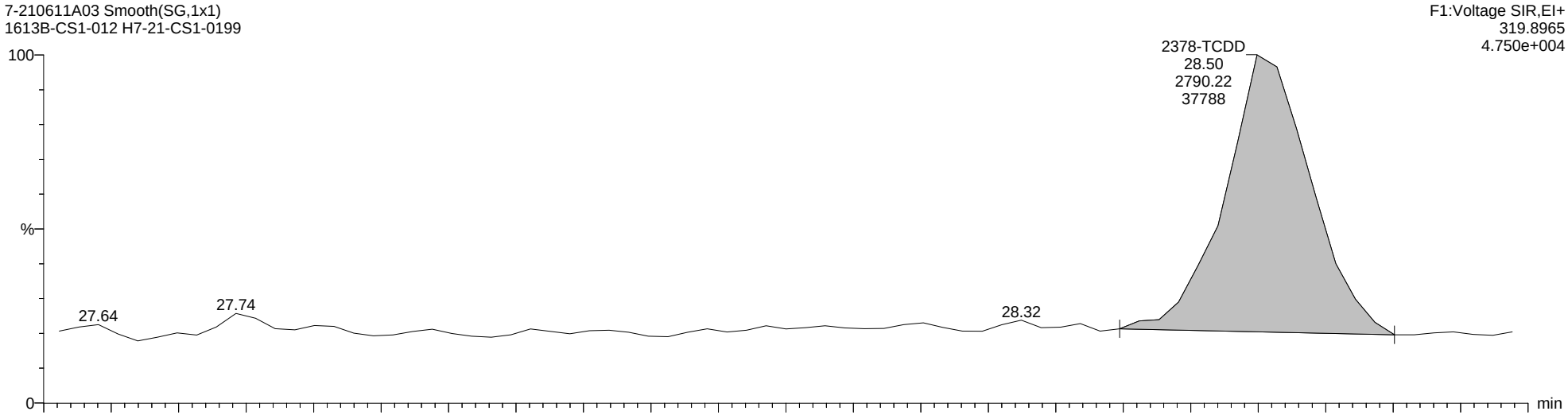
Dataset: I:\Organics Instrument\HIGHRES GCMS Completed Results Files\HR-7\7-210611A-ICAL-1613.qld

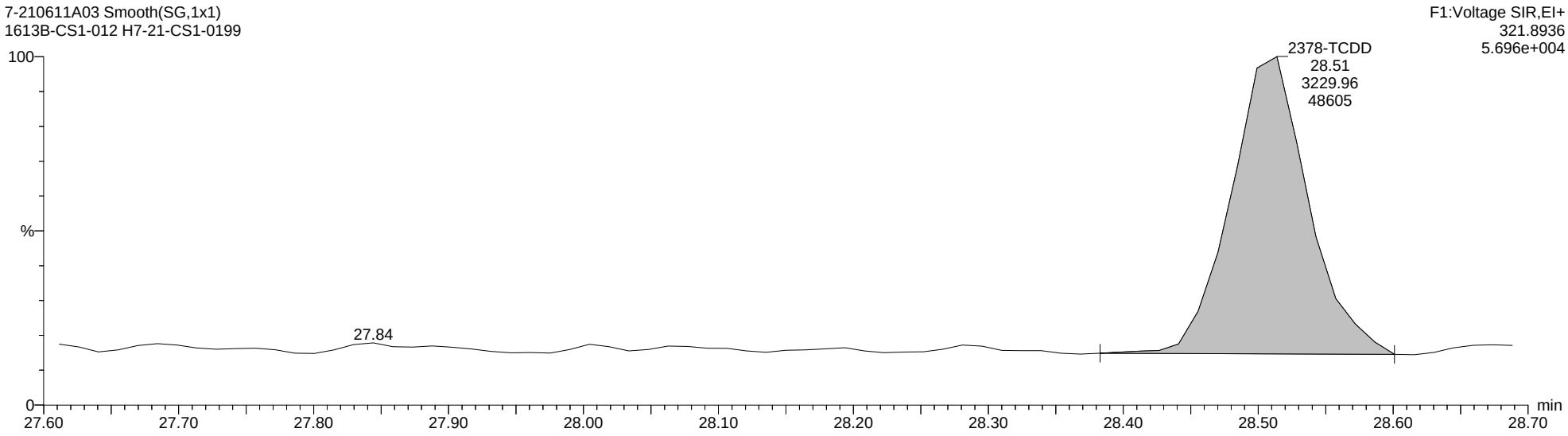
Last Altered: Monday, June 14, 2021 09:35:05 Eastern Daylight Time
Printed: Thursday, June 17, 2021 12:13:23 Eastern Daylight Time

Method: C:\MassLynx\Dioxin.PRO\MethDB\Dioxin_1613B.mdb 08 Jun 2021 10:17:10
Calibration: C:\MassLynx\Dioxin.PRO\CurveDB\7-210611A-CAL5-1613.cdb 14 Jun 2021 09:35:05

Name: 7-210611A03, Date: 11-Jun-2021, Time: 13:54:08, ID: H7-21-CS1-0199, Description: 1613B-CS1-012, Vial: Tray1:5

2378-TCDD





Quantify Sample Report **MassLynx MassLynx V4.1 SCN 901**

Dataset: I:\Organics Instrument\HIGHRES GCMS Completed Results Files\HR-7\7-210611A-ICAL-1613.qld

Last Altered: Monday, June 14, 2021 09:35:05 Eastern Daylight Time
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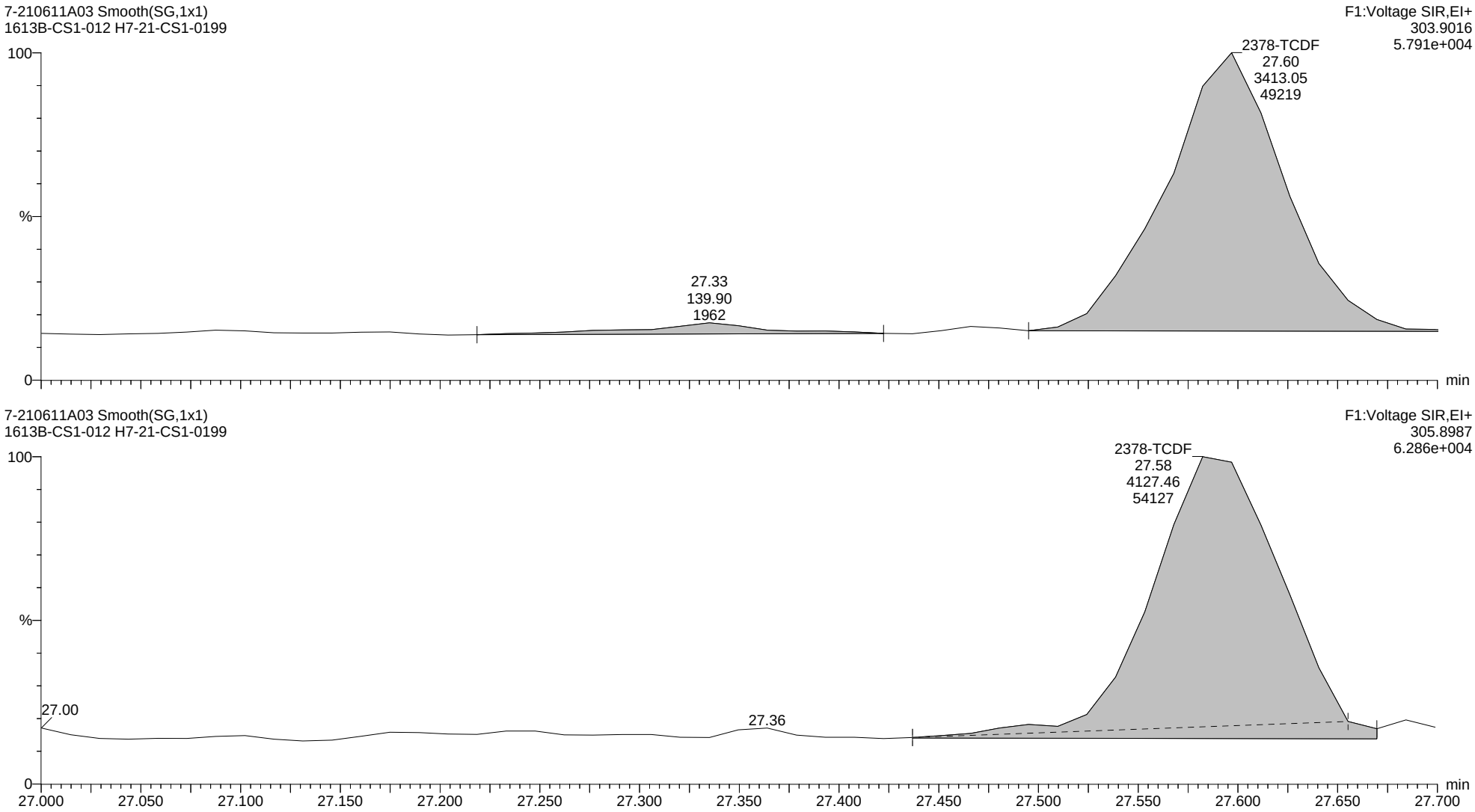
Name: 7-210611A03, Date: 11-Jun-2021, Time: 13:54:08, ID: H7-21-CS1-0199, Description: 1613B-CS1-012, Vial: Tray1:5

2378-TCDF



1435 Norjohn Court, Unit 1, Burlington, ON, Canada L7L 0E6

SVOC DATA PACKAGE

APPENDIX 1: INSTRUMENT OUTPUT DOCUMENTS

Including For Each Analytical Sequence::

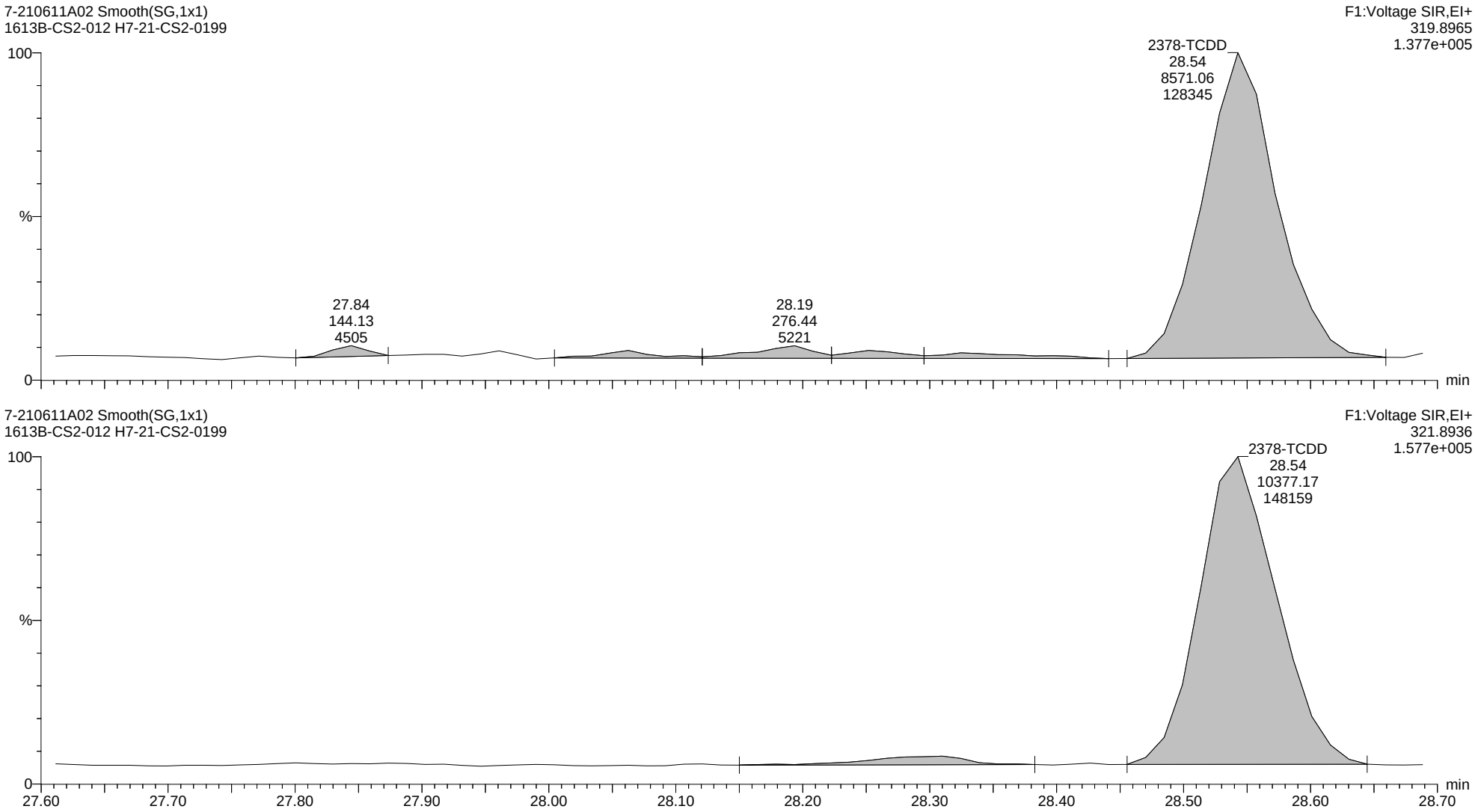
- The scanned instrument runlogs

- Instrument output (SICP chromatograms) indicating the integrations used for quantification including:
  - GC chromatographic resolution checks, where appropriate
  - SICPs for the run
  - SICP chromatograms indicating both the automated and manual peak integrati where this has been edited

- Reference peak profiles indicating the mass resolution
  - Pre-run mass calibration check printouts
  - Post-run mass calibration check printouts

Name: 7-210611A02, Date: 11-Jun-2021, Time: 13:13:45, ID: H7-21-CS2-0199, Description: 1613B-CS2-012, Vial: Tray1:4

2378-TCDD



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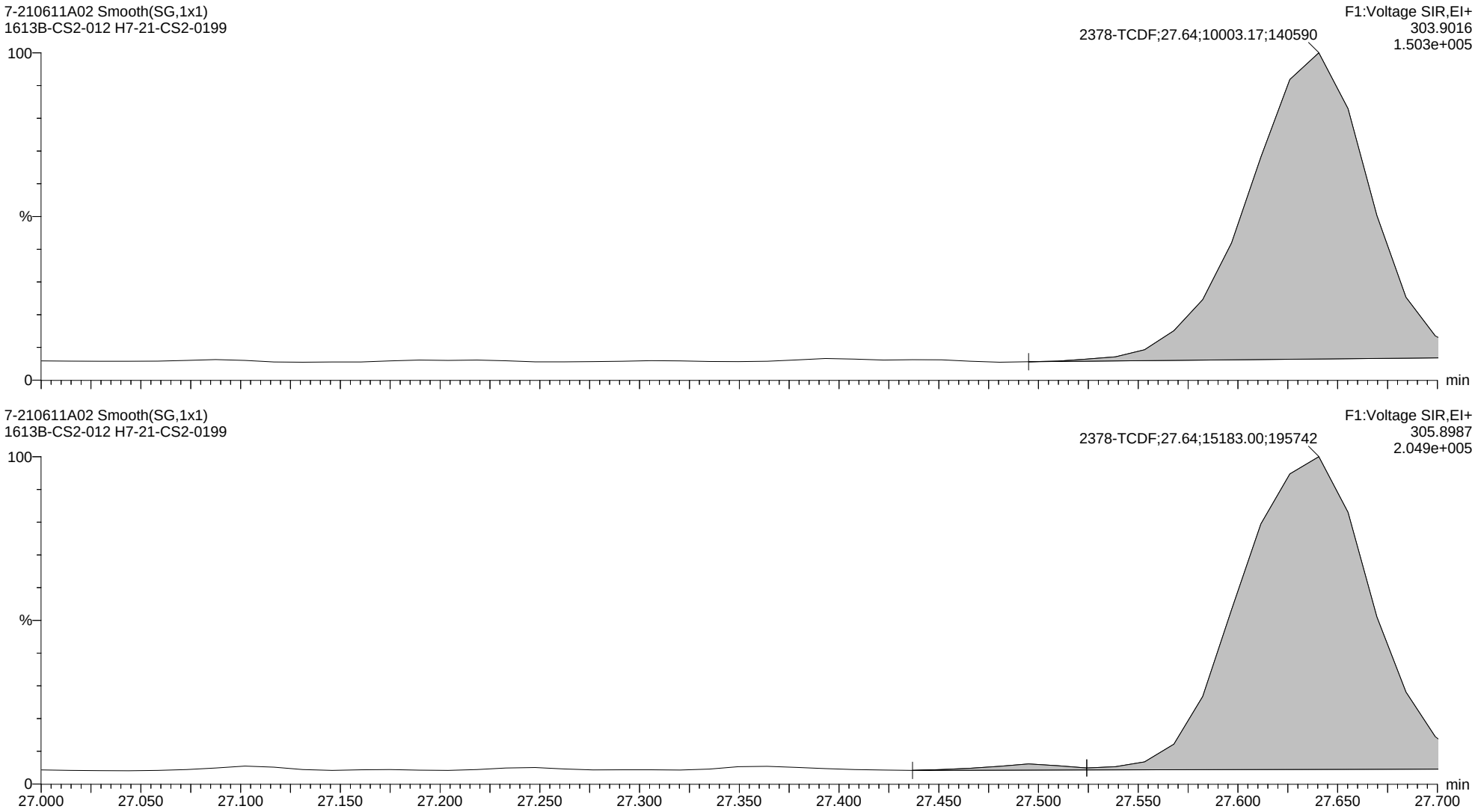
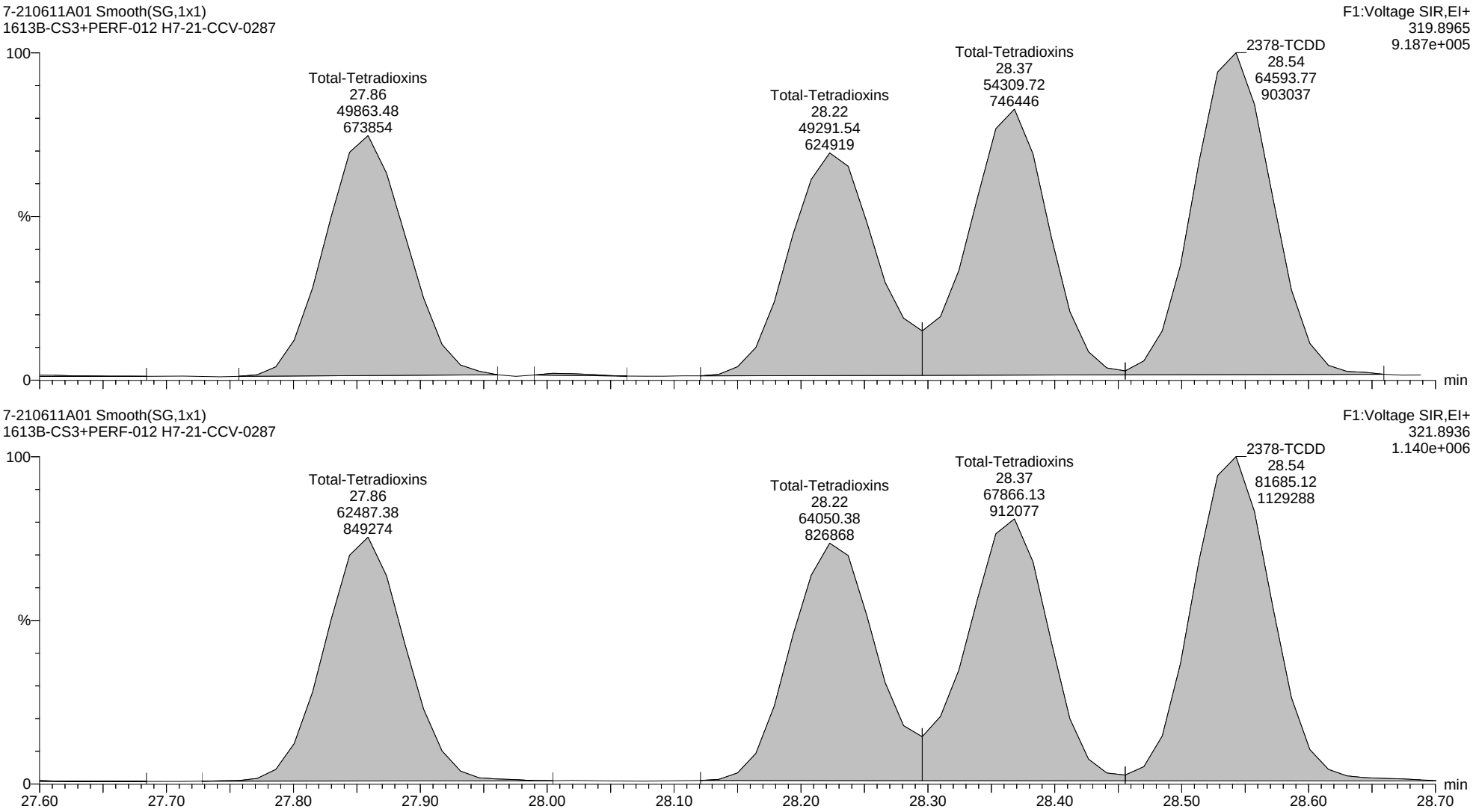
2378-TCDF



Name: 7-210611A01, Date: 11-Jun-2021, Time: 12:07:42, ID: H7-21-CCV-0287, Description: 1613B-CS3+PERF-012, Vial: Tray1:1

2378-TCDD



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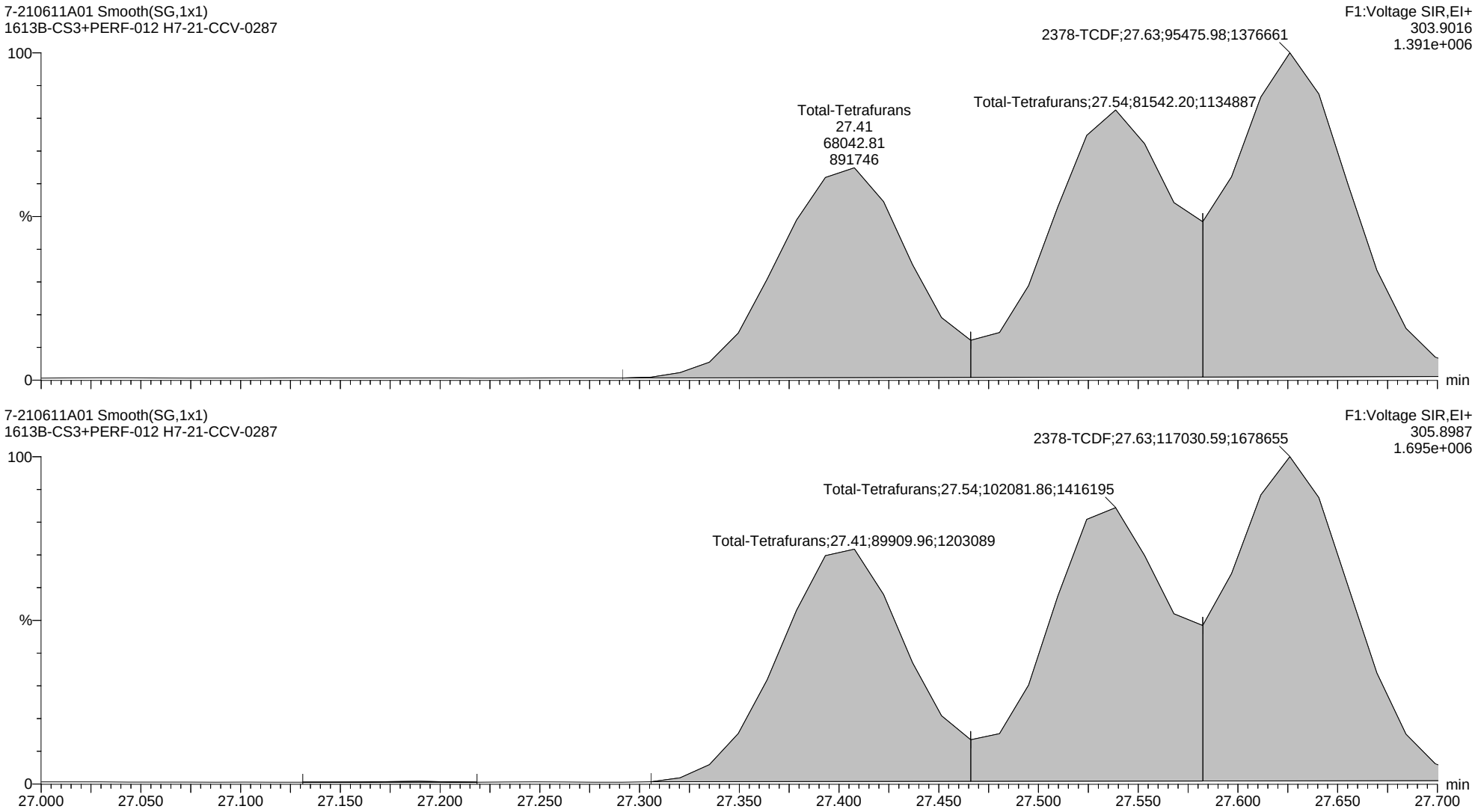
2378-TCDF



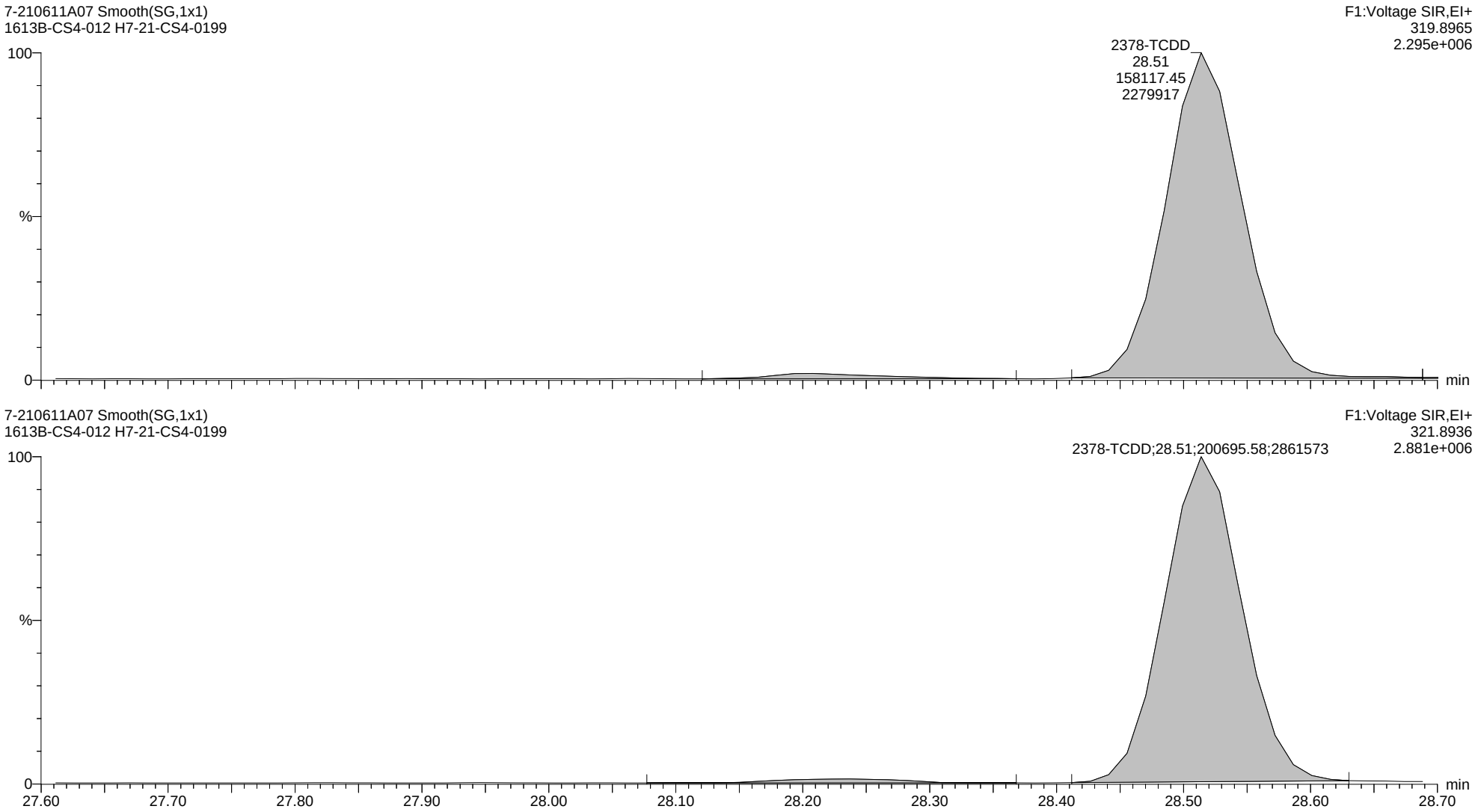
Quantify Sample Report **MassLynx MassLynx V4.1 SCN 901**

Dataset: I:\Organics Instrument\HIGHRES GCMS Completed Results Files\HR-7\7-210611A-ICAL-1613.qld

Last Altered: Monday, June 14, 2021 09:35:05 Eastern Daylight Time
Printed: Thursday, June 17, 2021 12:13:23 Eastern Daylight Time

Name: 7-210611A07, Date: 11-Jun-2021, Time: 16:48:17, ID: H7-21-CS4-0199, Description: 1613B-CS4-012, Vial: Tray1:9

2378-TCDD



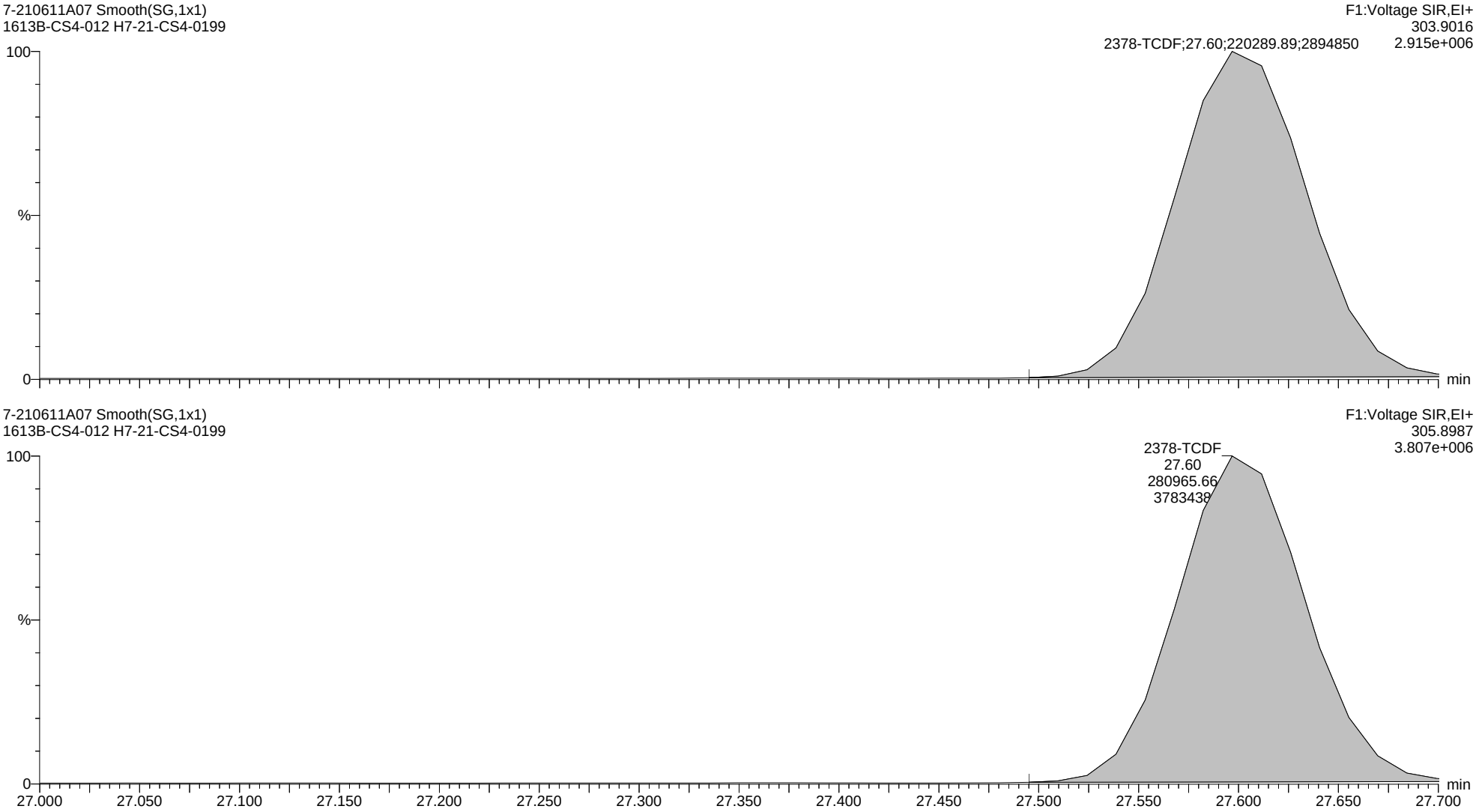
Quantify Sample Report **MassLynx MassLynx V4.1 SCN 901**

Dataset: I:\Organics Instrument\HIGHRES GCMS Completed Results Files\HR-7\7-210611A-ICAL-1613.qld

Last Altered: Monday, June 14, 2021 09:35:05 Eastern Daylight Time
Printed: Thursday, June 17, 2021 12:13:23 Eastern Daylight Time

Name: 7-210611A07, Date: 11-Jun-2021, Time: 16:48:17, ID: H7-21-CS4-0199, Description: 1613B-CS4-012, Vial: Tray1:9

2378-TCDF



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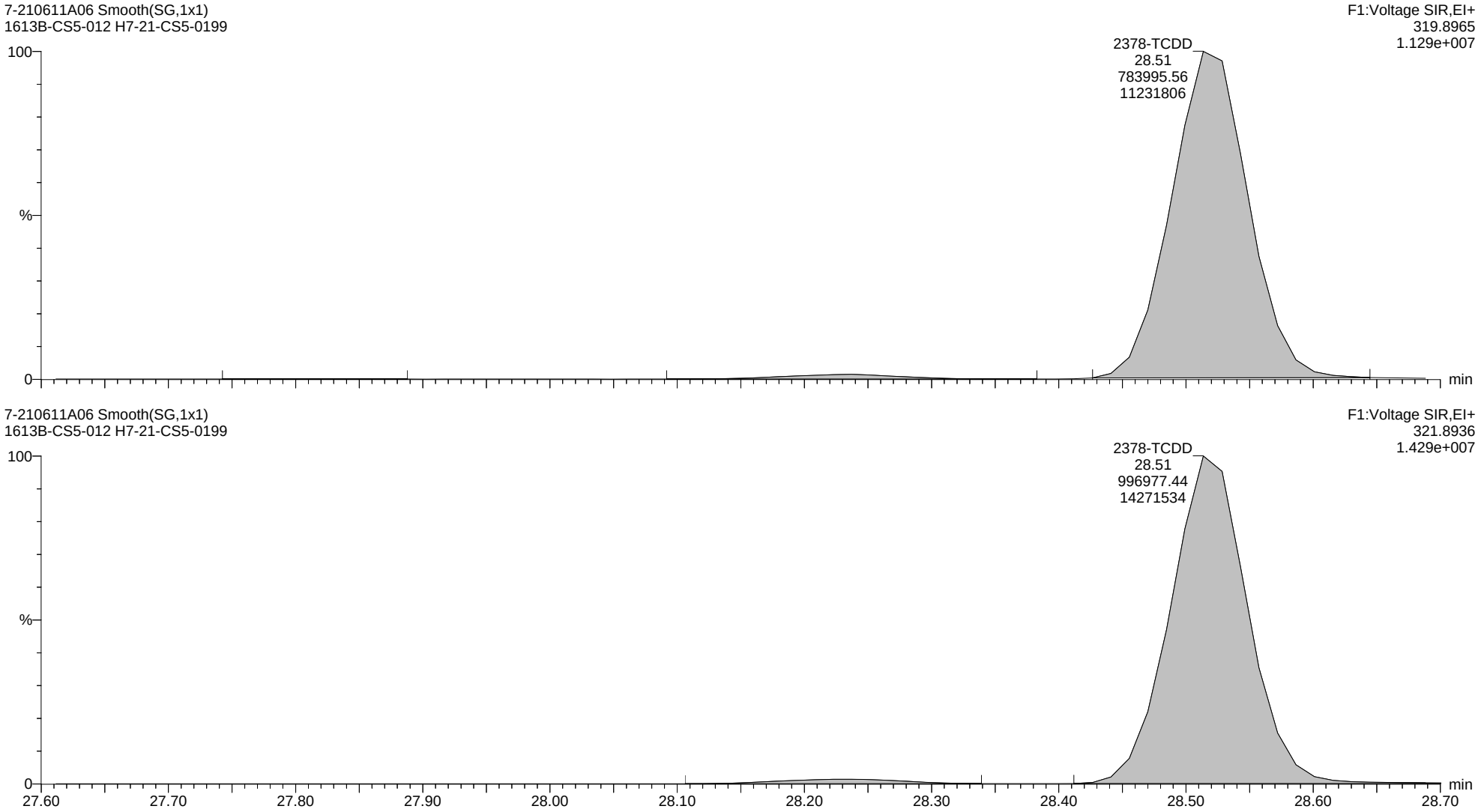
2378-TCDD



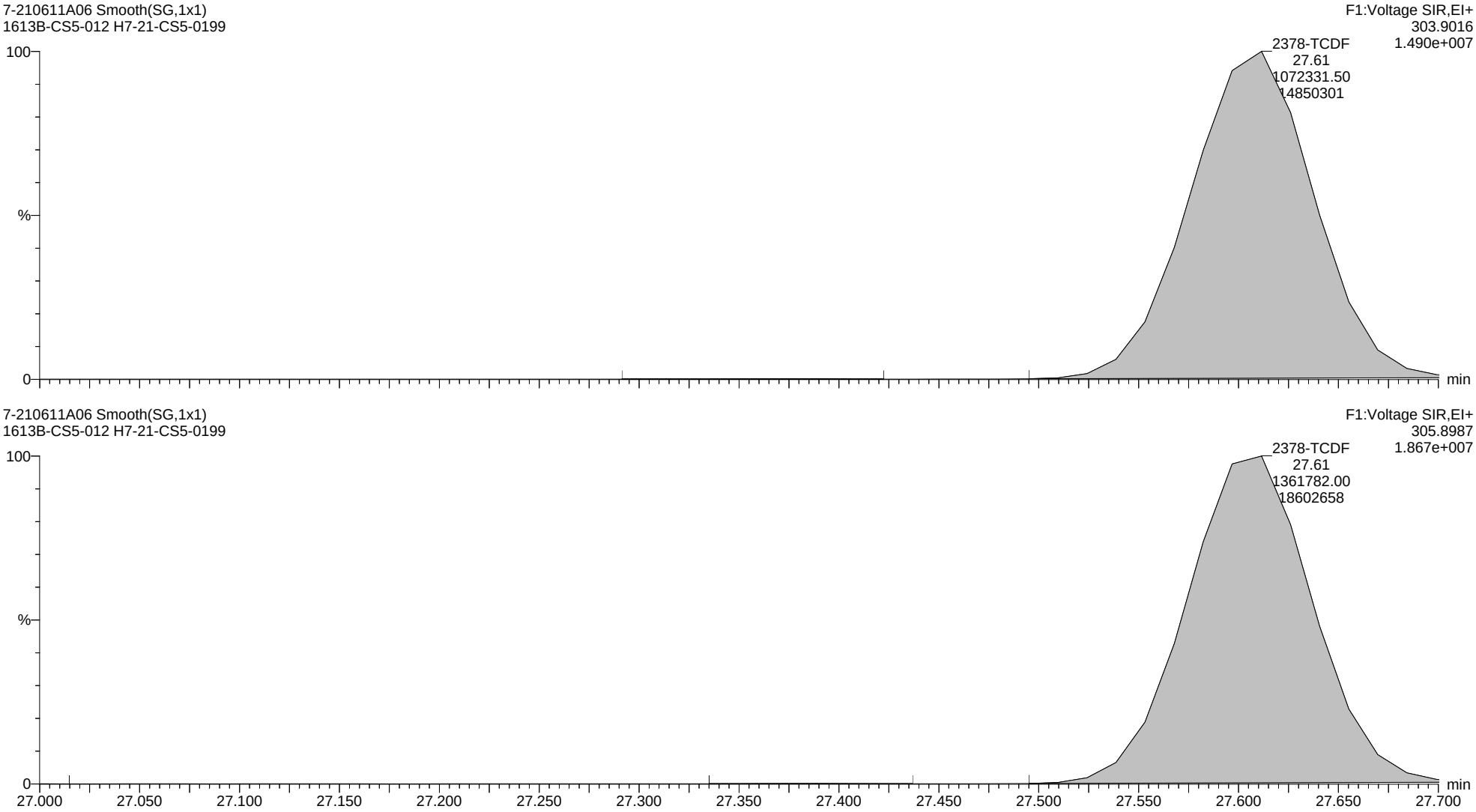
Quantify Sample Report **MassLynx MassLynx V4.1 SCN 901**

Dataset: I:\Organics Instrument\HIGHRES GCMS Completed Results Files\HR-7\7-210611A-ICAL-1613.qld

Last Altered: Monday, June 14, 2021 09:35:05 Eastern Daylight Time
Printed: Thursday, June 17, 2021 12:13:23 Eastern Daylight Time

Name: 7-210611A06, Date: 11-Jun-2021, Time: 16:04:38, ID: H7-21-CS5-0199, Description: 1613B-CS5-012, Vial: Tray1:8

2378-TCDF



Quantify Audit Report MassLynx MassLynx V4.1 SCN 901

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Last Altered: Monday, June 14, 2021 09:35:05 Eastern Daylight Time
Printed: Thursday, June 17, 2021 12:13:23 Eastern Daylight Time

Date	Time	Event	Details	Comments
14-Jun-21	09:28:44	Process Extract		
14-Jun-21	09:28:44	Process Integrate		
14-Jun-21	09:28:44	Process Calibrate		
14-Jun-21	09:28:44	Process Quantify		
14-Jun-21	09:28:44	Dataset Created		
14-Jun-21	09:29:08	Pre modification peak	Sample:7-210611A03, Compound:TF, RT:27.582	
14-Jun-21	09:29:08	Peak modified	Sample:7-210611A03, Compound:TF, RT:27.582	NA210614MB
14-Jun-21	09:30:21	Method modified		
14-Jun-21	09:30:26	Process Calibrate		
14-Jun-21	09:30:26	Process Quantify		
14-Jun-21	09:30:53	Method modified		
14-Jun-21	09:31:05	Peak deleted	Sample:7-210611A07, Compound:13CHXD, RT:34.907	
14-Jun-21	09:31:05	Peak deleted	Sample:7-210611A07, Compound:13CHXD, RT:34.864	
14-Jun-21	09:31:05	Peak deleted	Sample:7-210611A07, Compound:13CHXD, RT:34.811	
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14-Jun-21	09:31:05	Peak deleted	Sample:7-210611A07, Compound:13CHXD, RT:34.641	
14-Jun-21	09:31:05	Peak deleted	Sample:7-210611A07, Compound:13CHXD, RT:34.928	
14-Jun-21	09:31:05	Peak deleted	Sample:7-210611A07, Compound:13CHXD, RT:34.864	
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14-Jun-21	09:31:05	Peak deleted	Sample:7-210611A07, Compound:13CHXD, RT:34.641	
14-Jun-21	09:31:10	Process Calibrate		
14-Jun-21	09:31:10	Process Quantify		
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14-Jun-21	09:31:55	Peak deleted	Sample:7-210611A06, Compound:13CHXD, RT:34.641	
14-Jun-21	09:31:55	Peak deleted	Sample:7-210611A06, Compound:13CHXD, RT:34.641	
14-Jun-21	09:32:10	Peak deleted	Sample:7-210611A06, Compound:13CHPF, RT:36.420	
14-Jun-21	09:32:10	Peak deleted	Sample:7-210611A06, Compound:13CHPF, RT:36.387	
14-Jun-21	09:35:04	Peak deleted	Sample:7-210611A03, Compound:13CHXD, RT:34.747	
14-Jun-21	09:35:04	Peak deleted	Sample:7-210611A03, Compound:13CHXD, RT:34.641	
14-Jun-21	09:35:04	Peak deleted	Sample:7-210611A03, Compound:13CHXD, RT:34.620	
14-Jun-21	09:35:04	Peak deleted	Sample:7-210611A03, Compound:13CHXD, RT:34.620	
14-Jun-21	09:35:04	Peak deleted	Sample:7-210611A03, Compound:13CHXD, RT:34.970	
14-Jun-21	09:35:04	Peak deleted	Sample:7-210611A03, Compound:13CHXD, RT:34.917	
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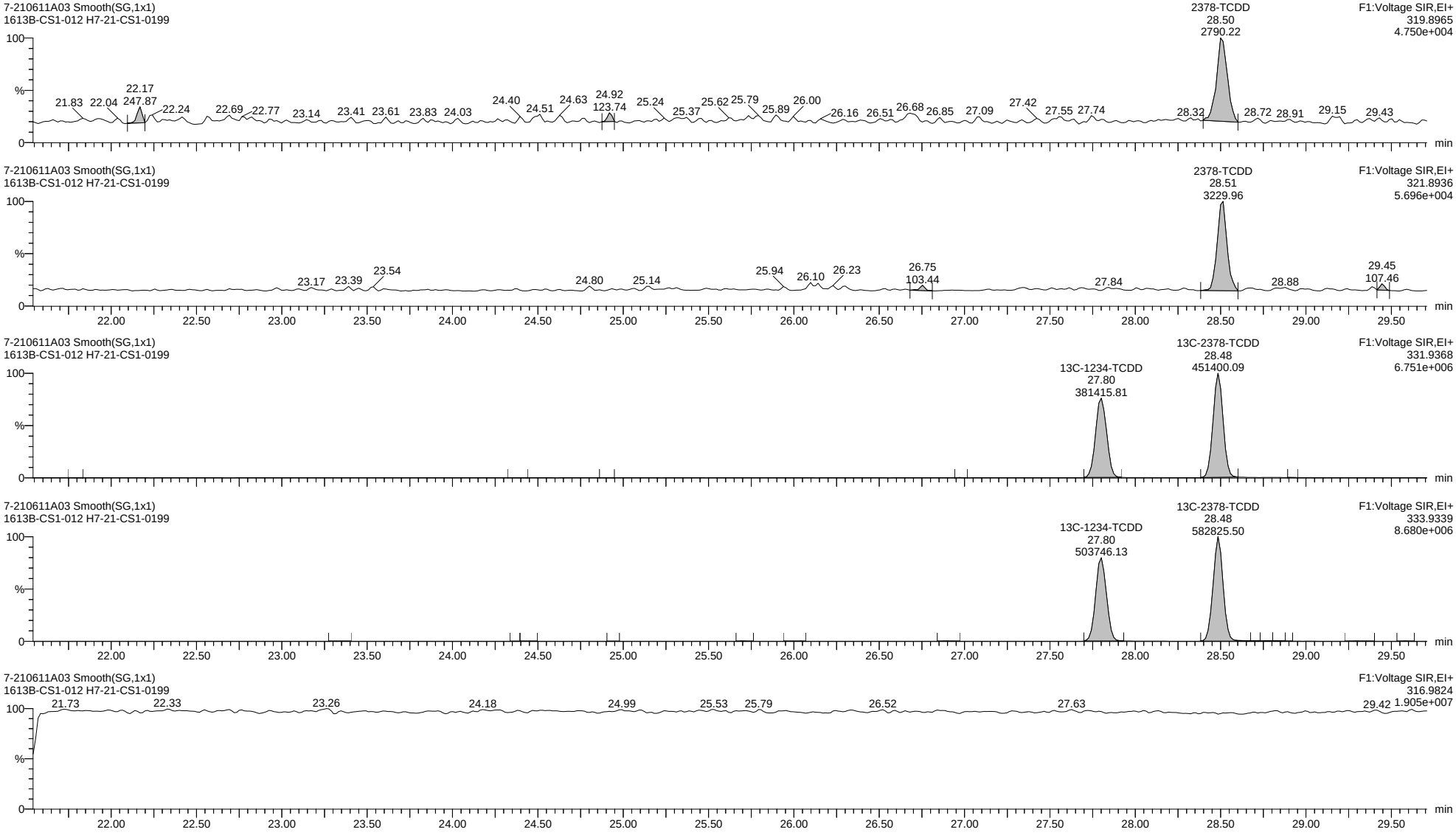
14-Jun-21	09:37:47	Dataset Saved	Saved to 'I:\Organics Instrument\HIGHRES GCMS Complete...	

Dataset: I:\Organics Instrument\HIGHRES GCMS Completed Results Files\HR-7\7-210611A-ICAL-1613.qld

Last Altered: Monday, June 14, 2021 09:35:05 Eastern Daylight Time
Printed: Thursday, June 17, 2021 12:13:23 Eastern Daylight Time

Method: C:\MassLynx\Dioxin.PRO\MethDB\Dioxin_1613B.mdb 08 Jun 2021 10:17:10
Calibration: C:\MassLynx\Dioxin.PRO\CurveDB\7-210611A-CAL5-1613.cdb 14 Jun 2021 09:35:05

Name: 7-210611A03, Date: 11-Jun-2021, Time: 13:54:08, ID: H7-21-CS1-0199, Description: 1613B-CS1-012, Vial: Tray1:5



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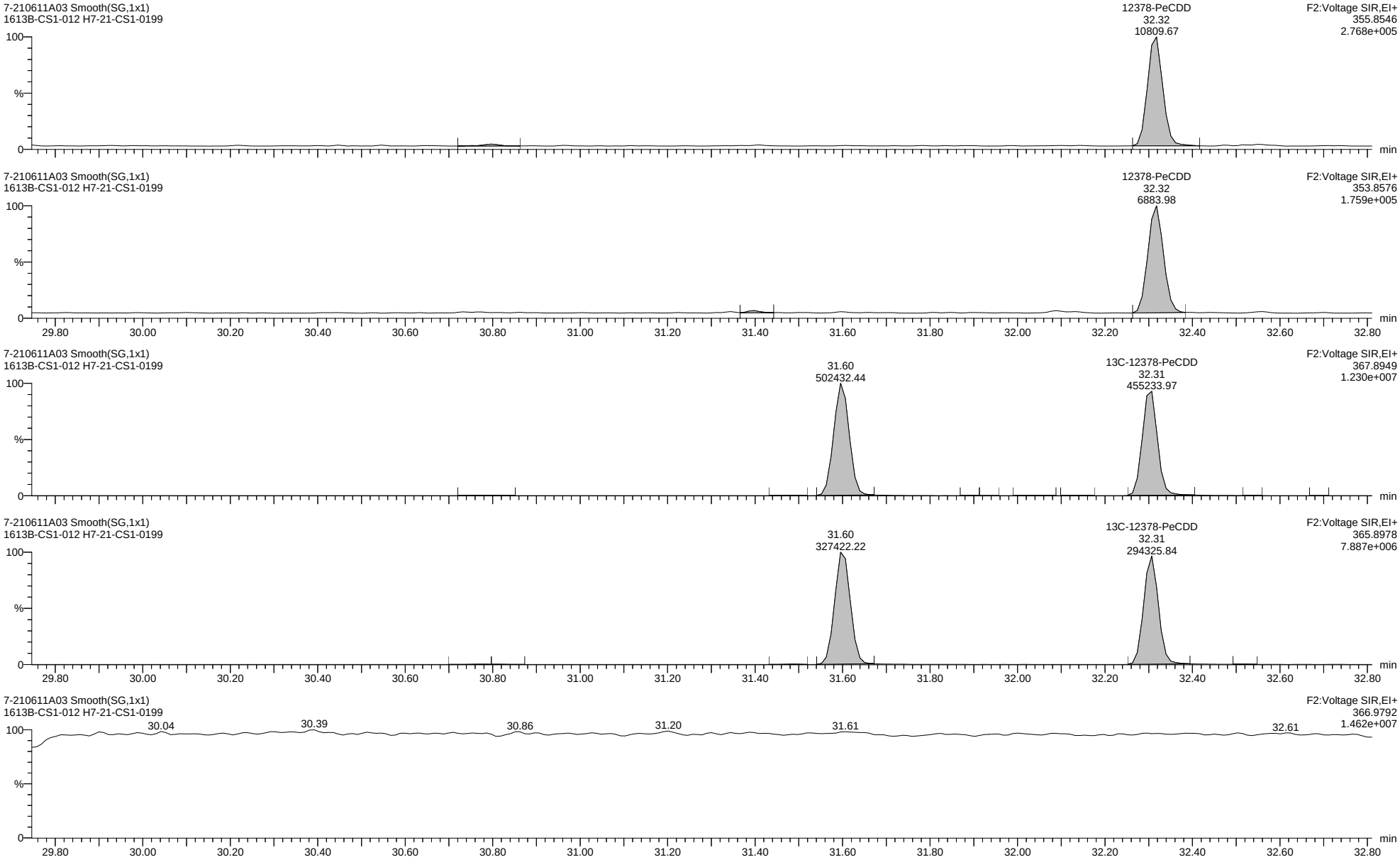

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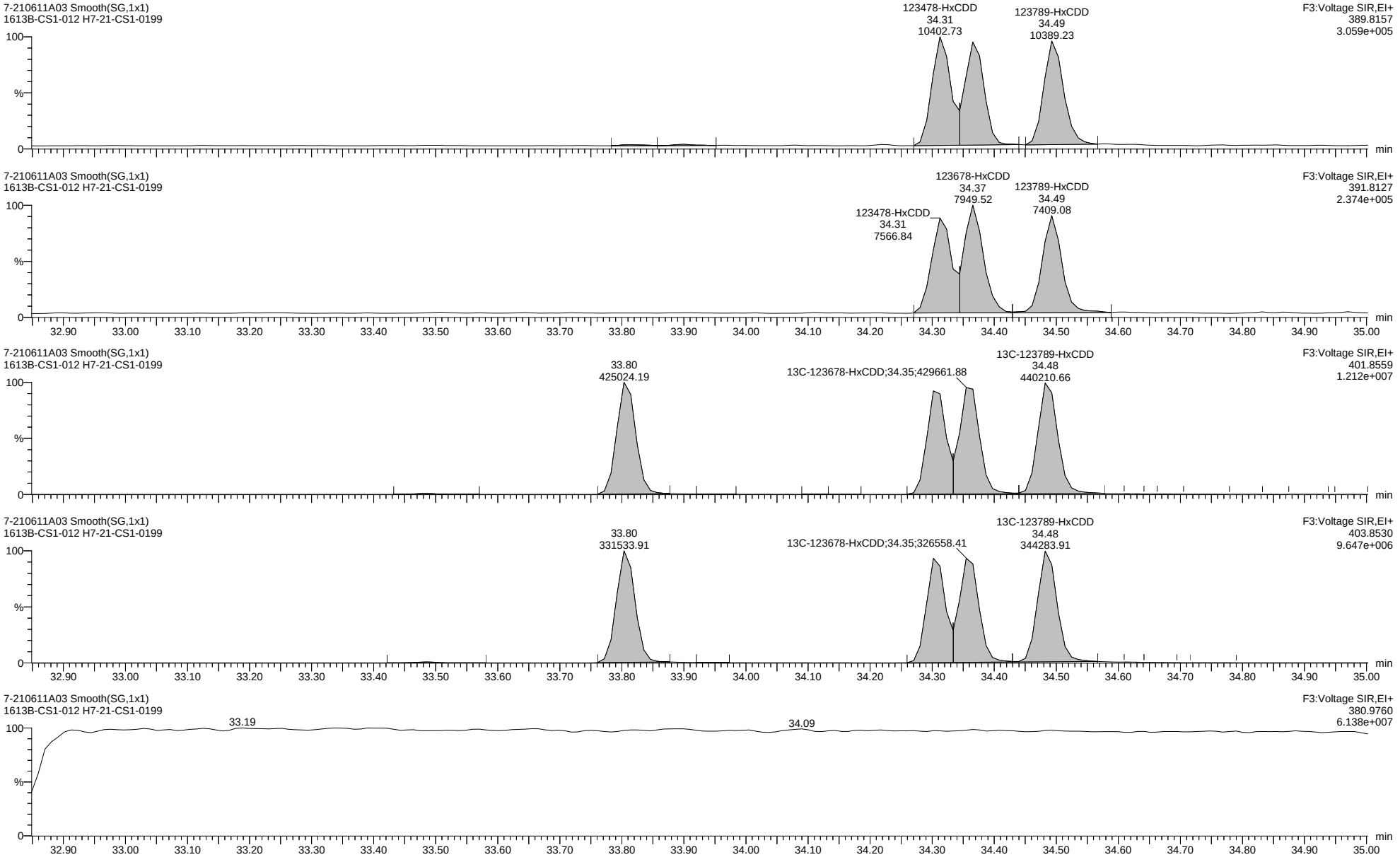

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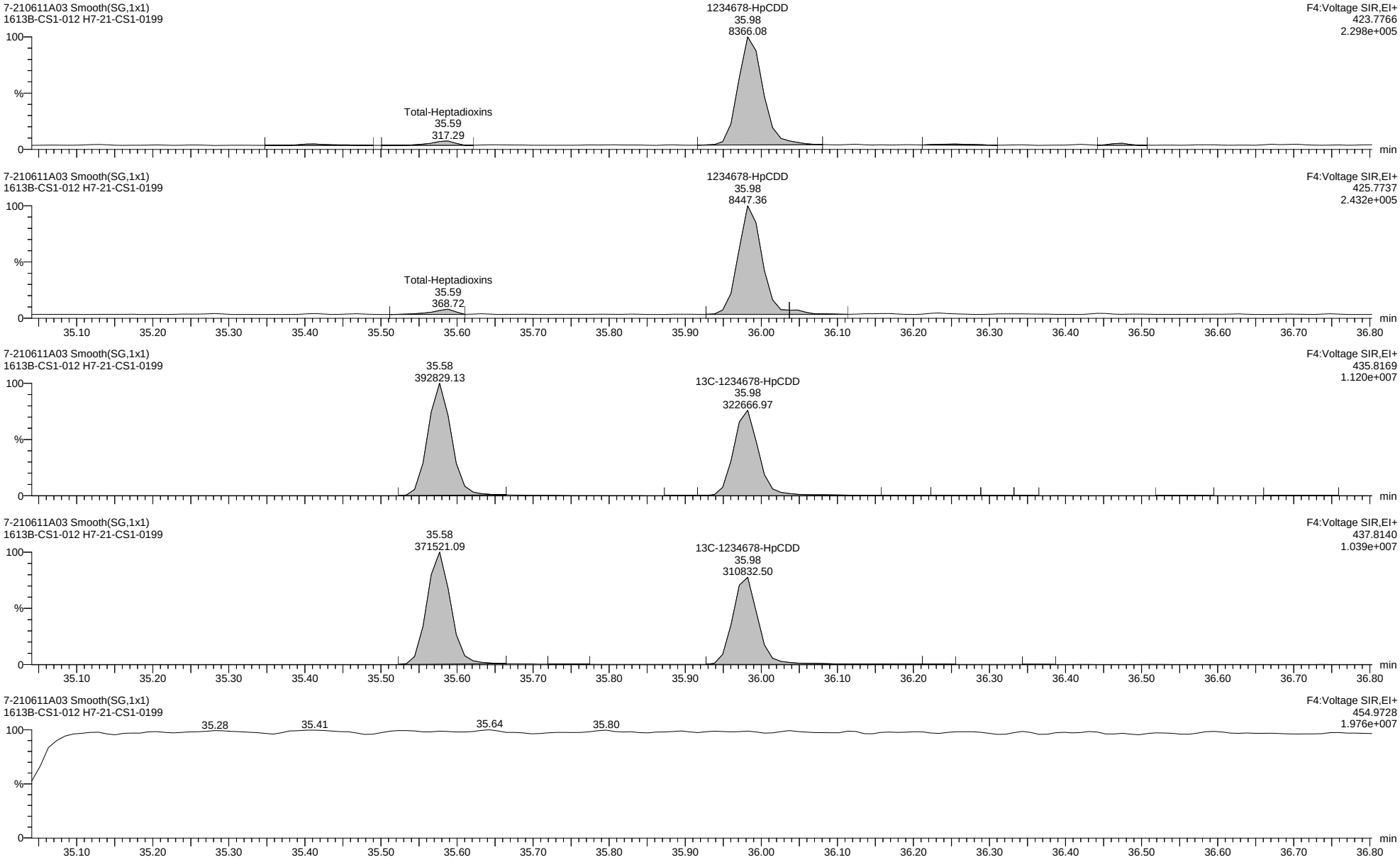

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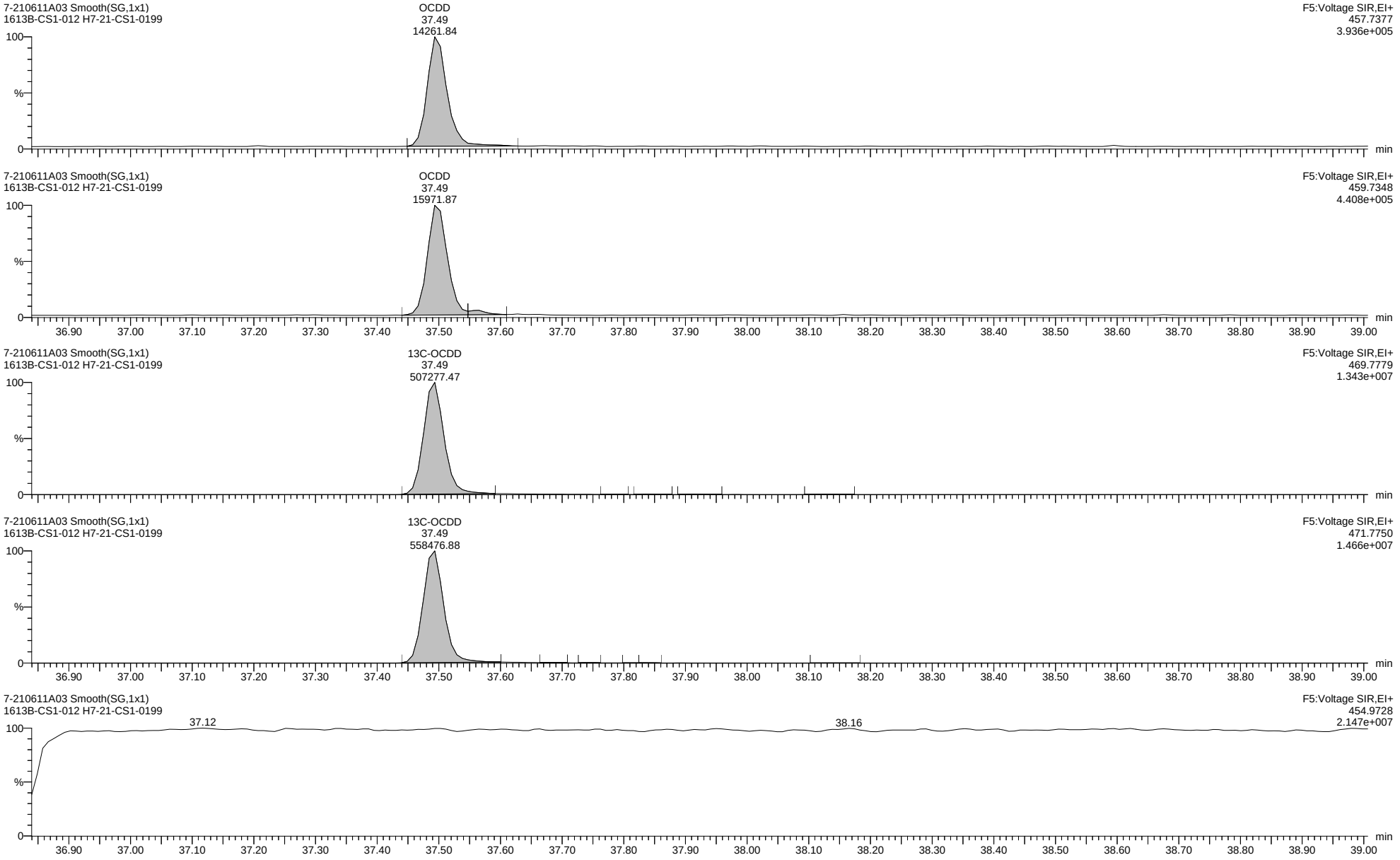

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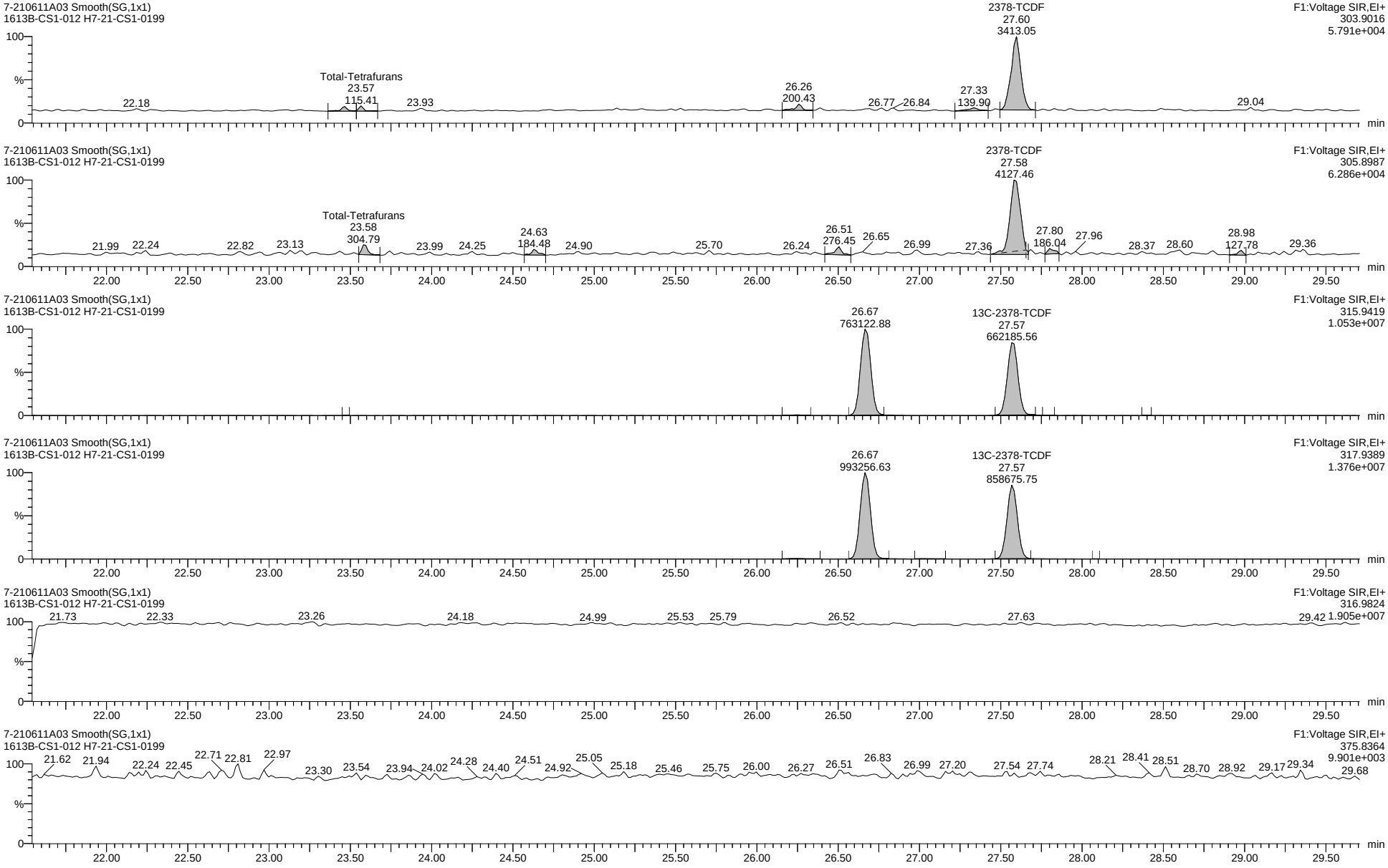

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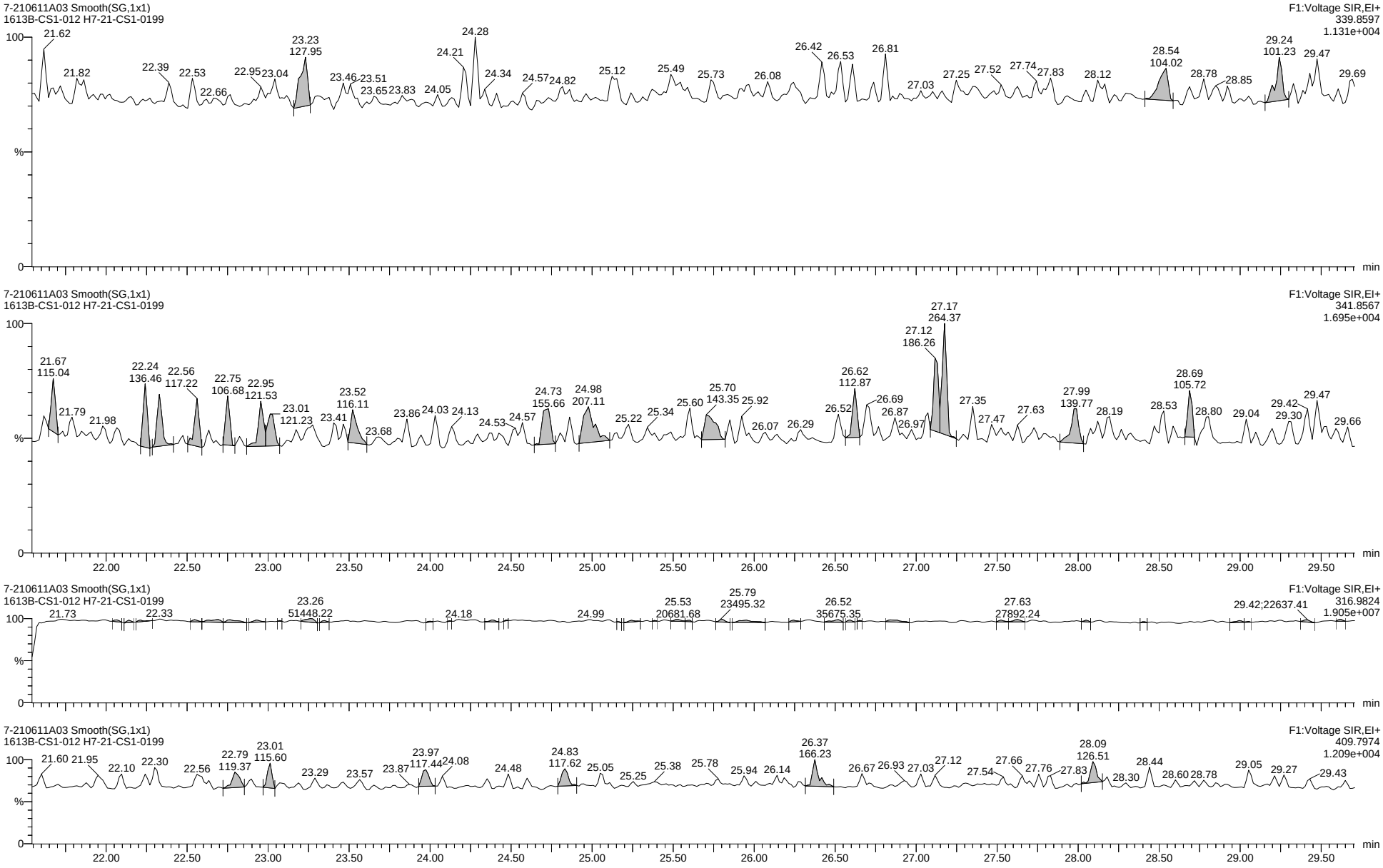

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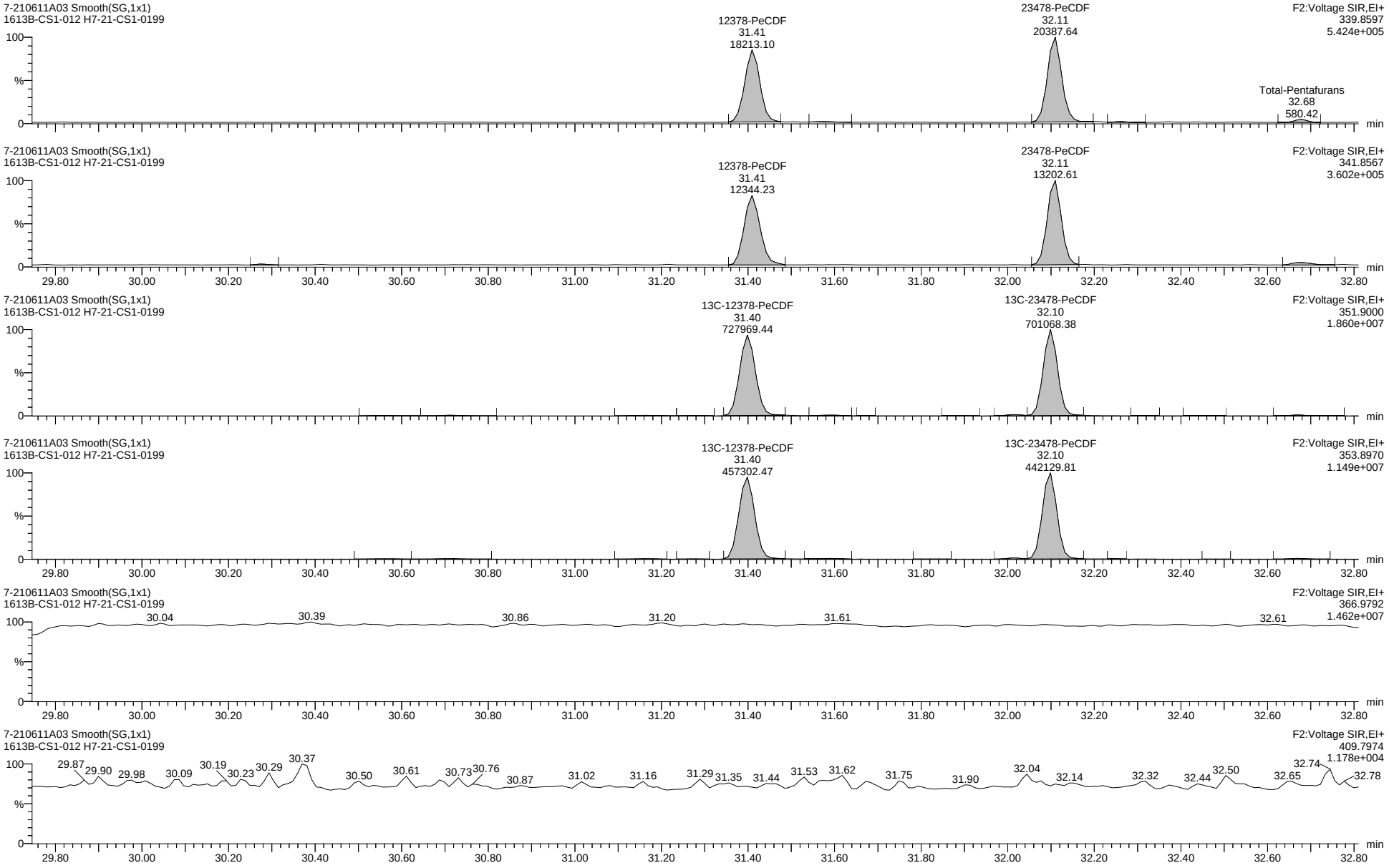

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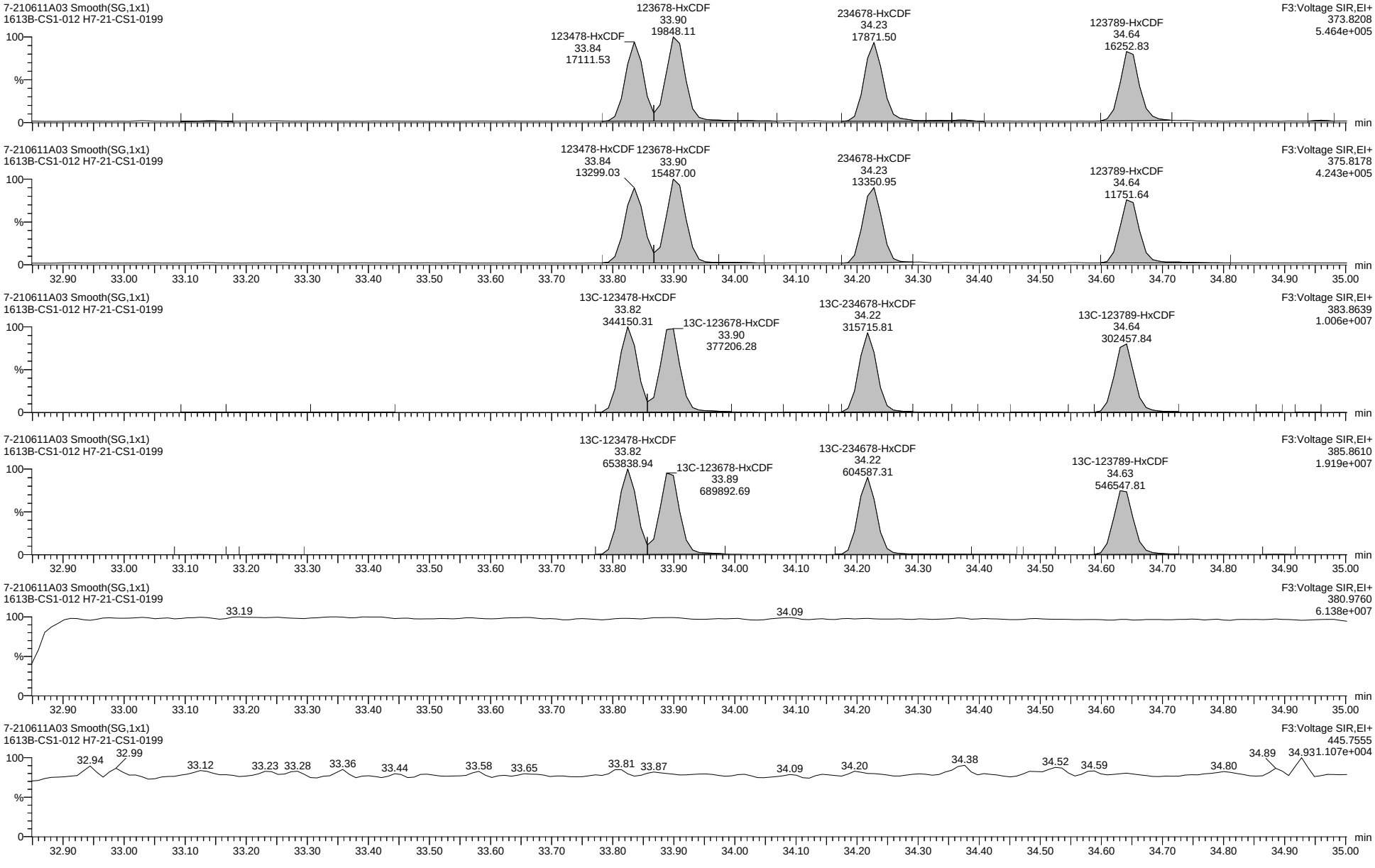

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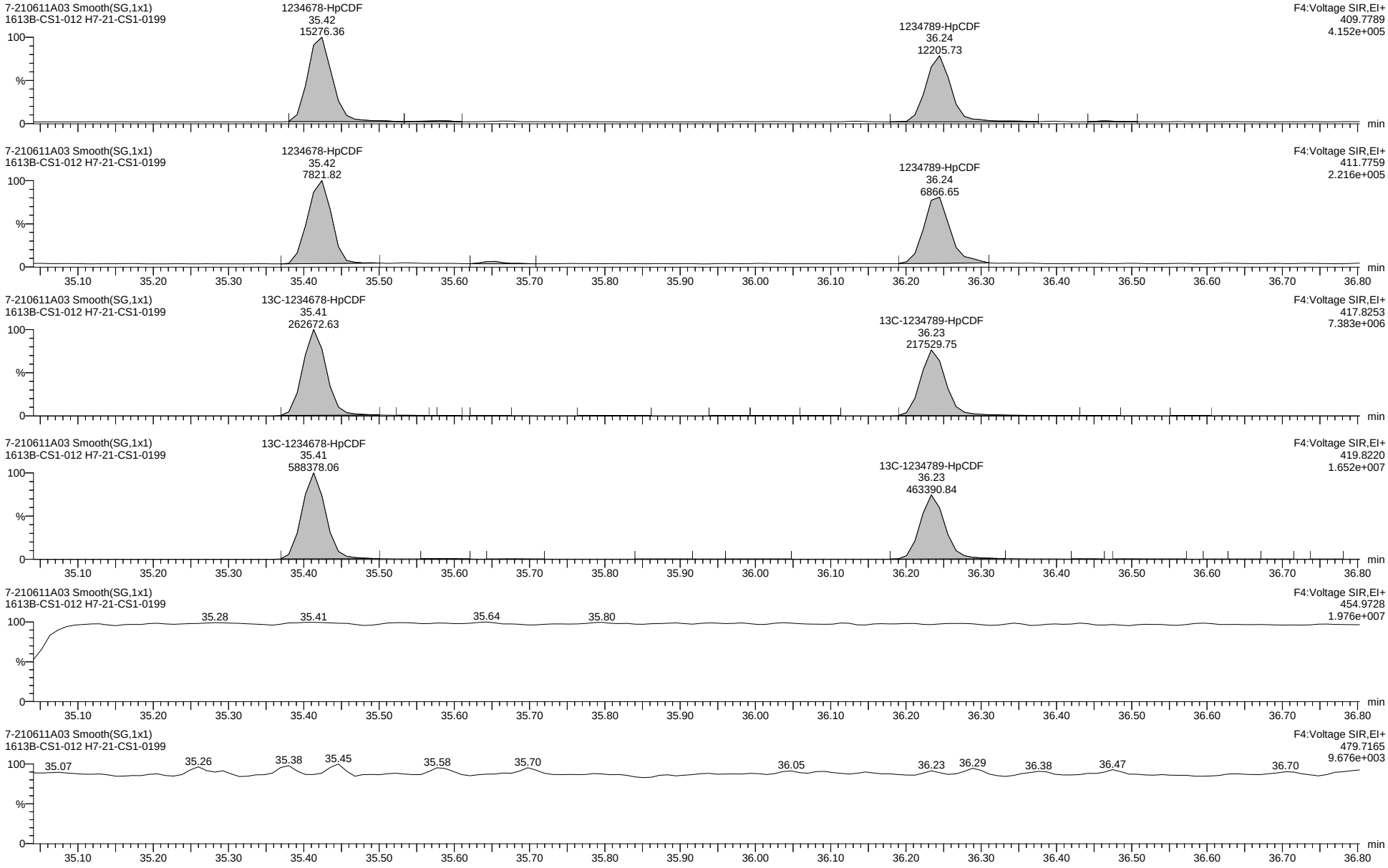

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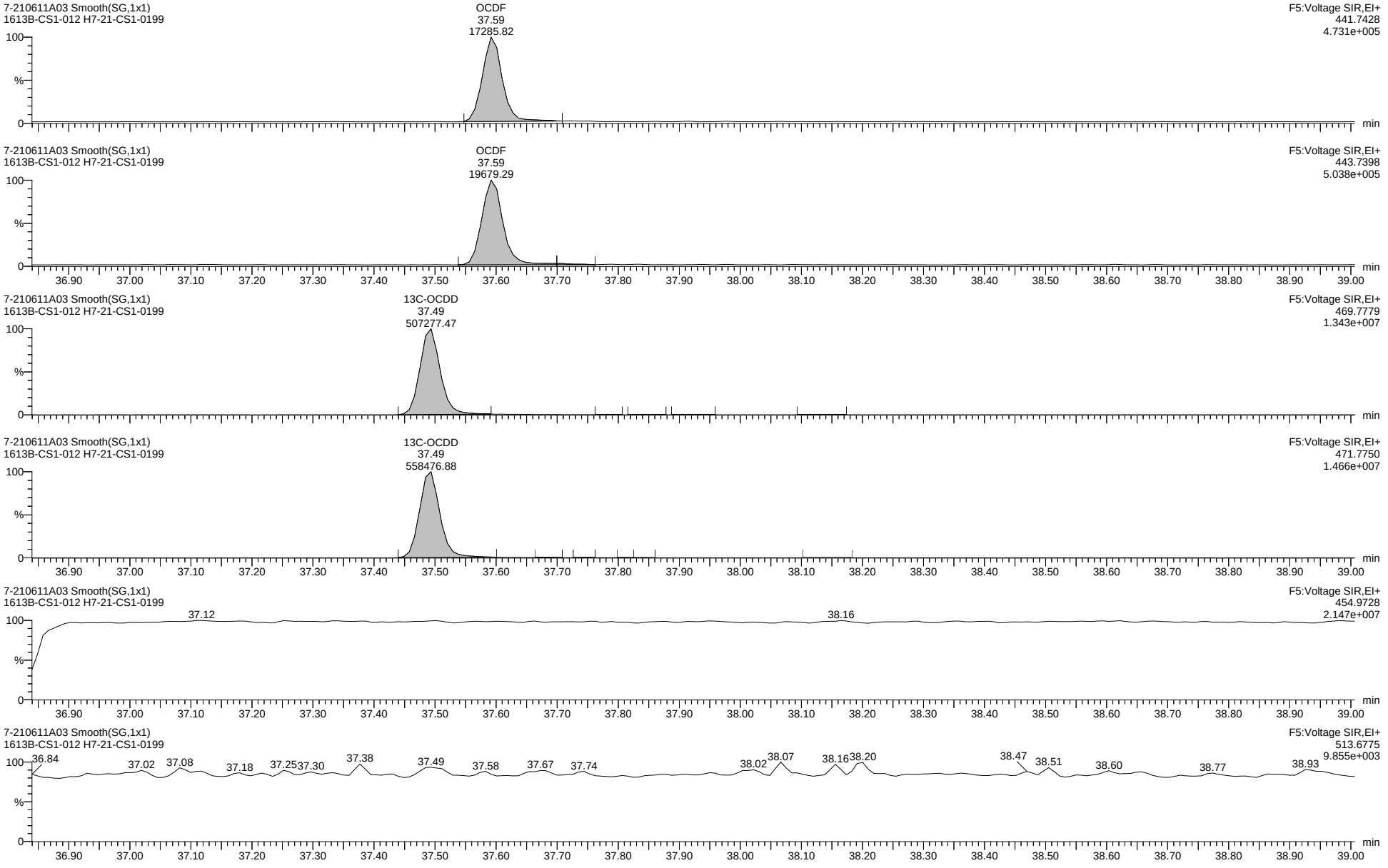

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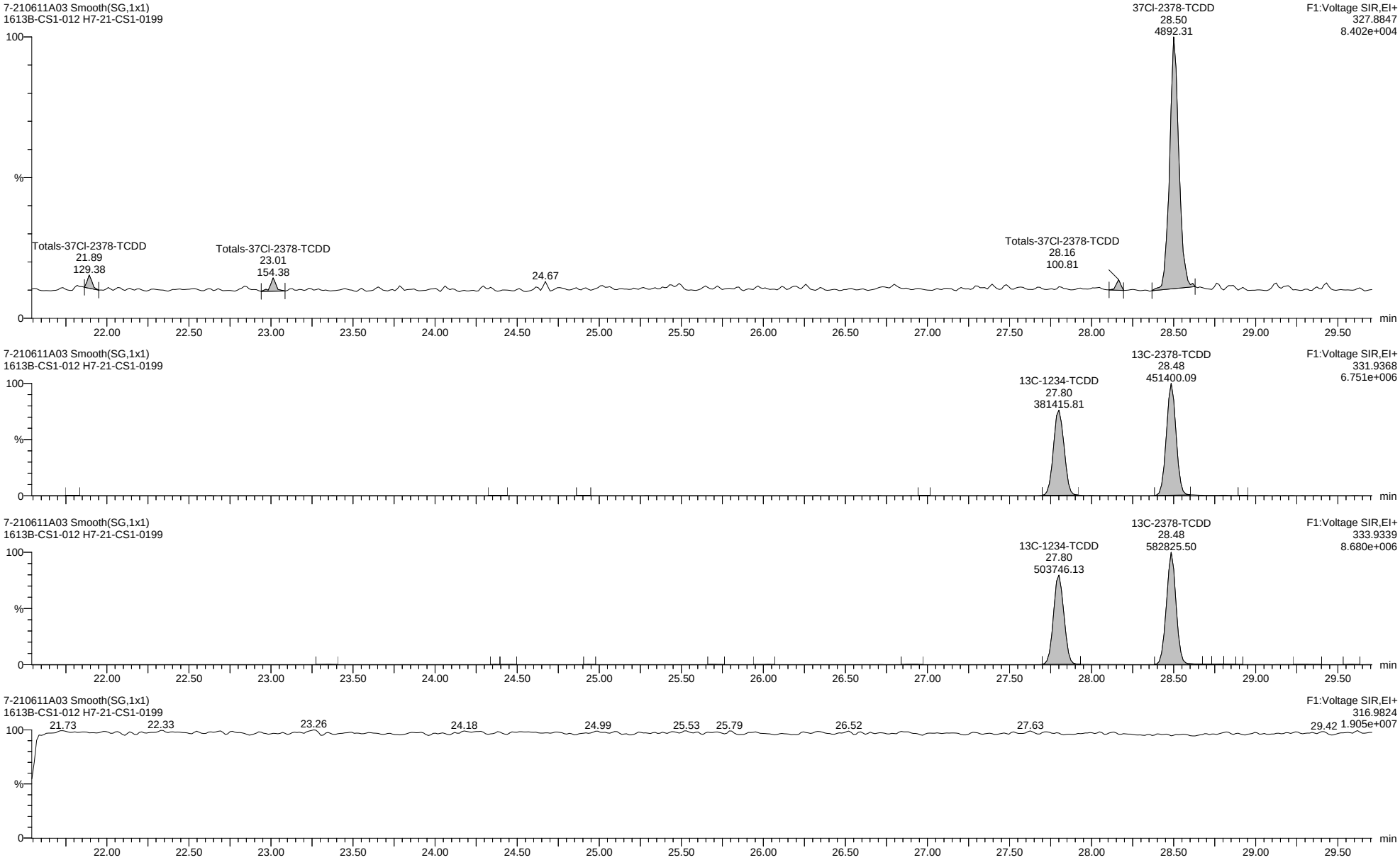

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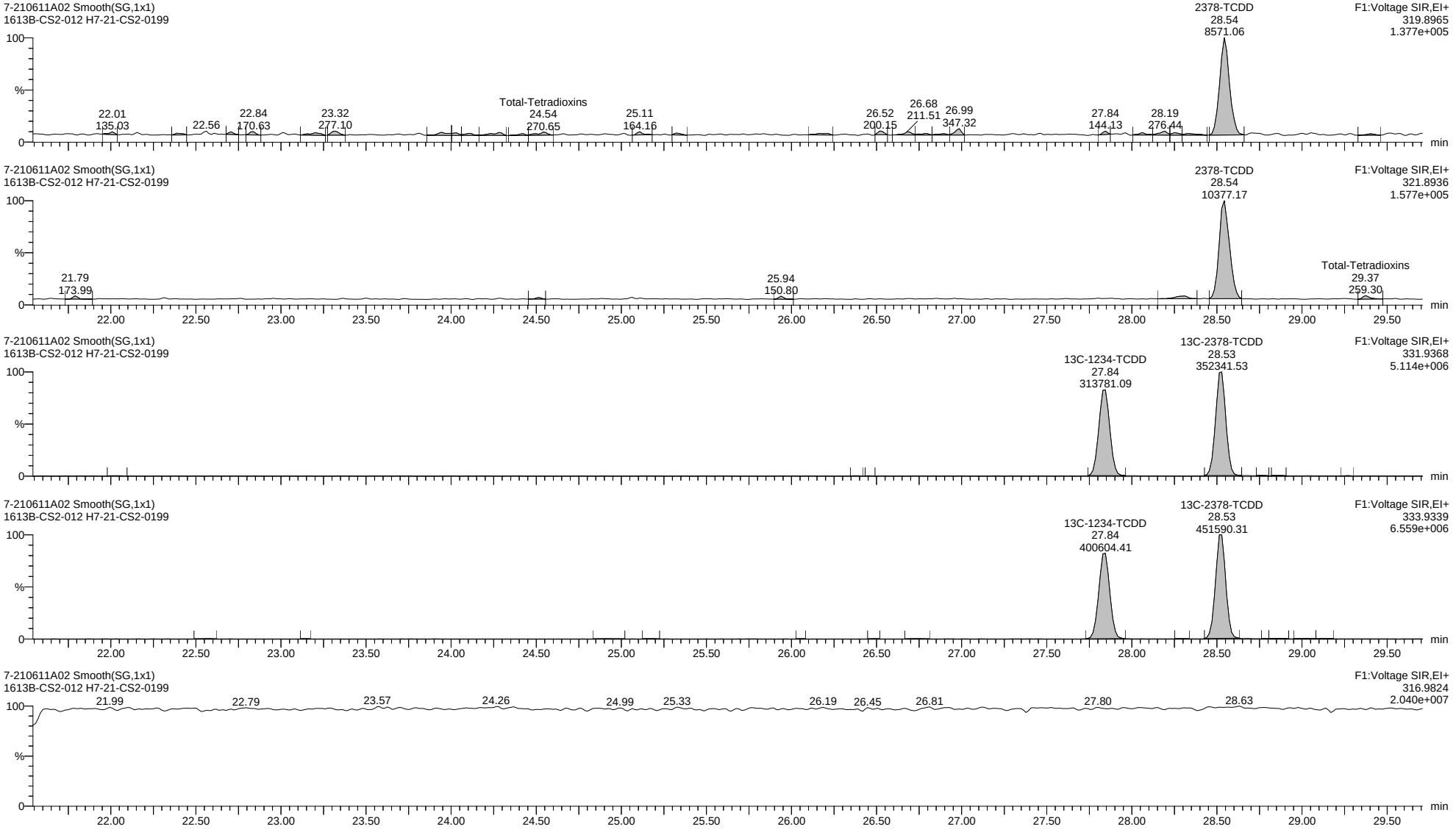

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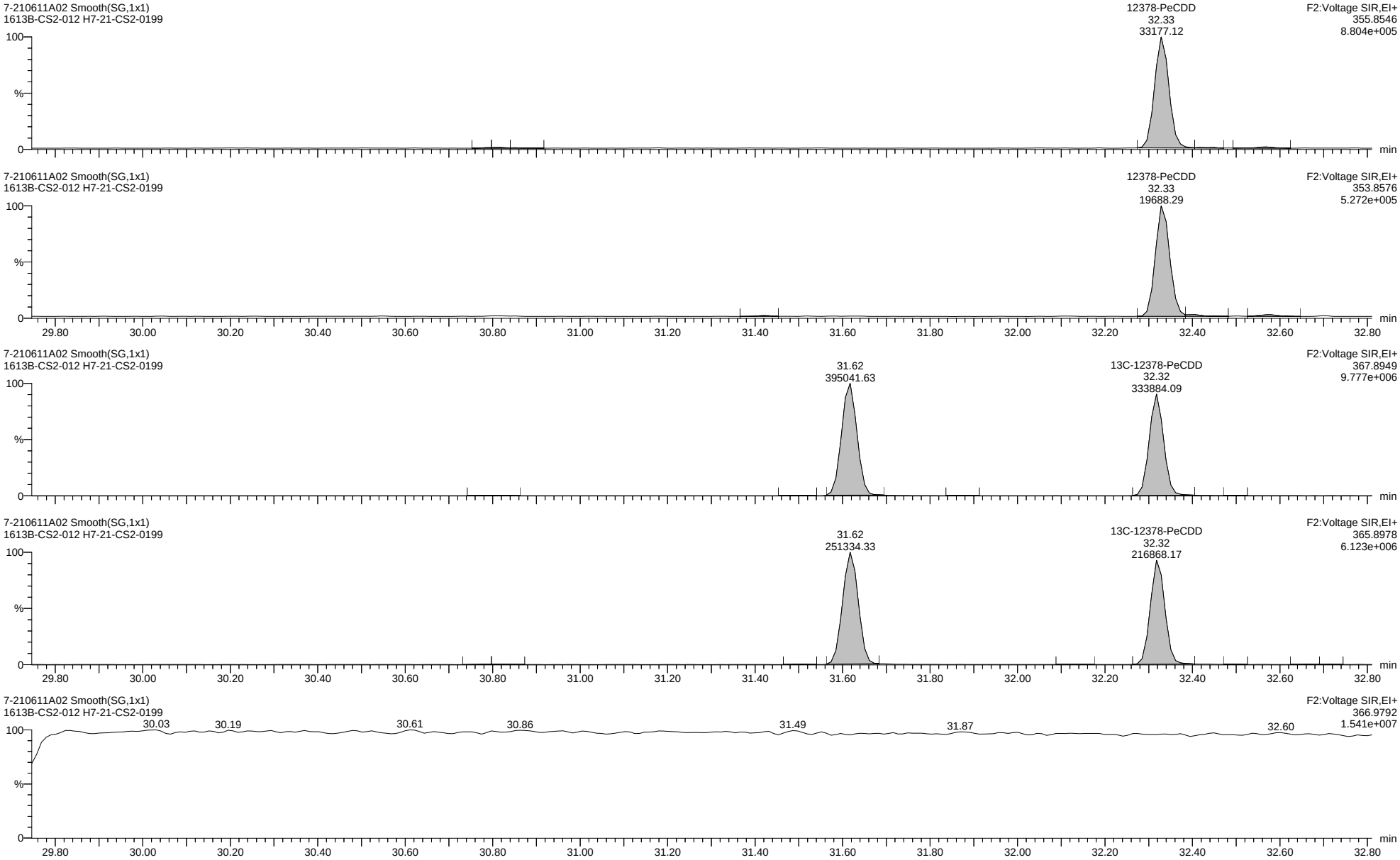

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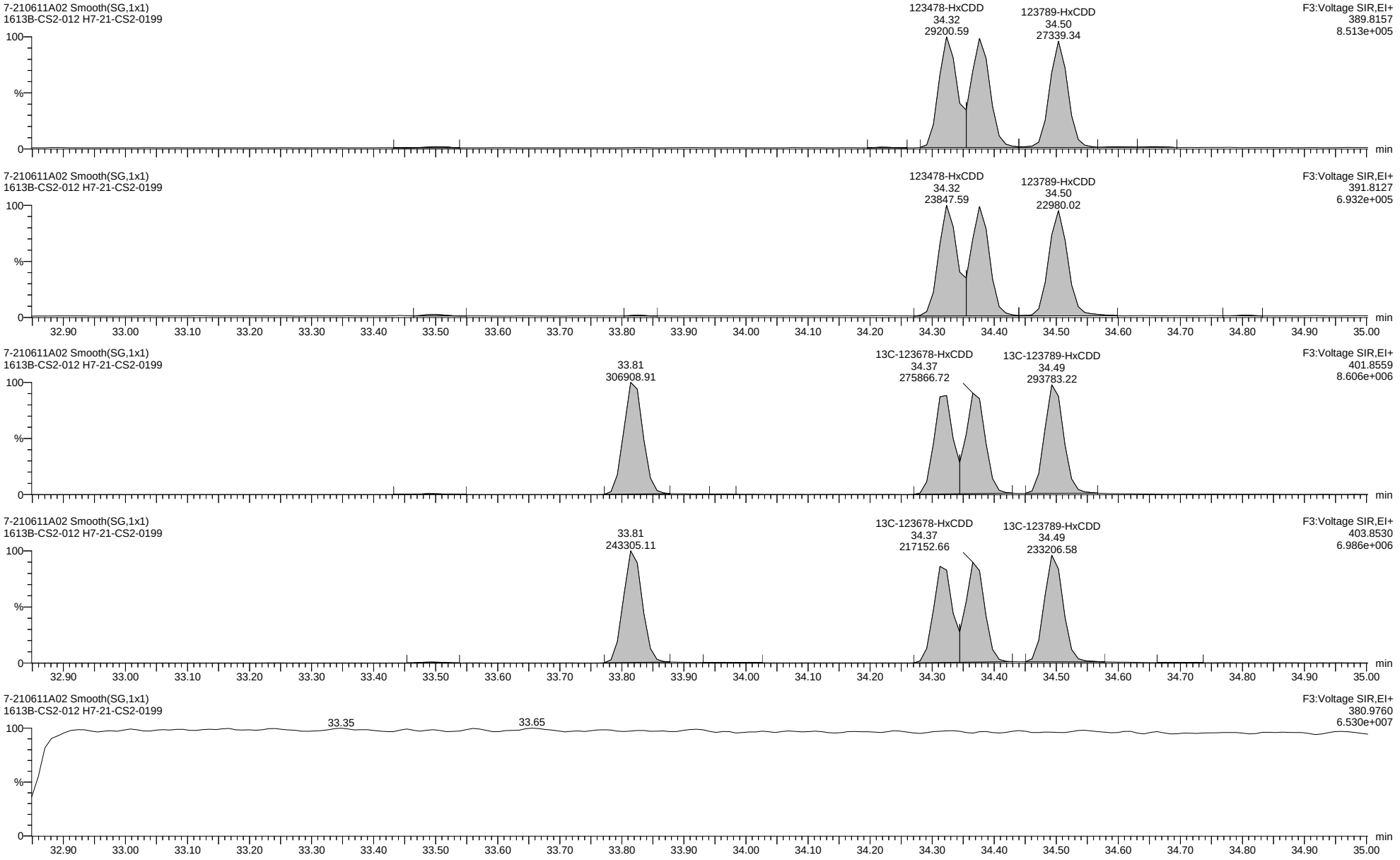

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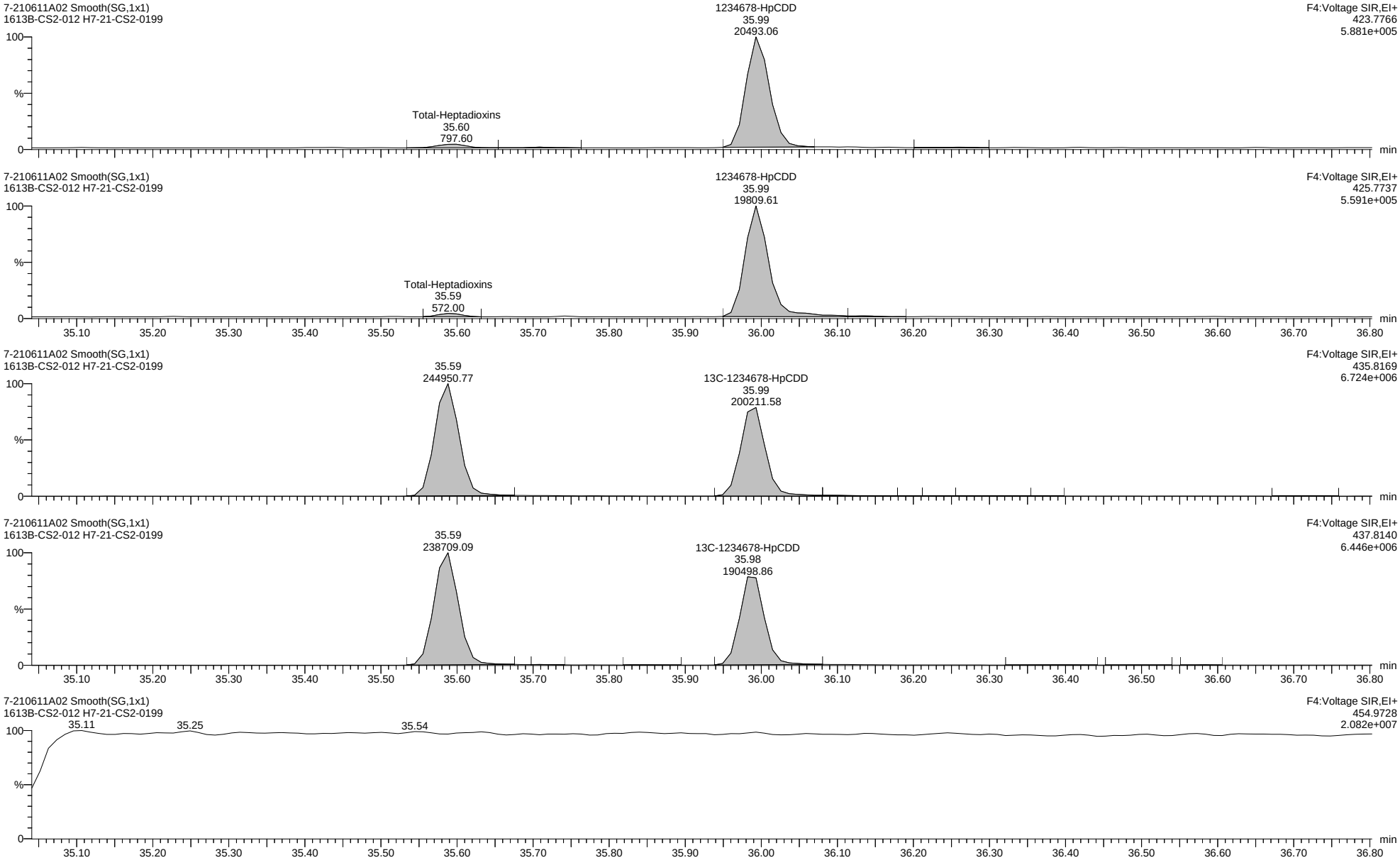

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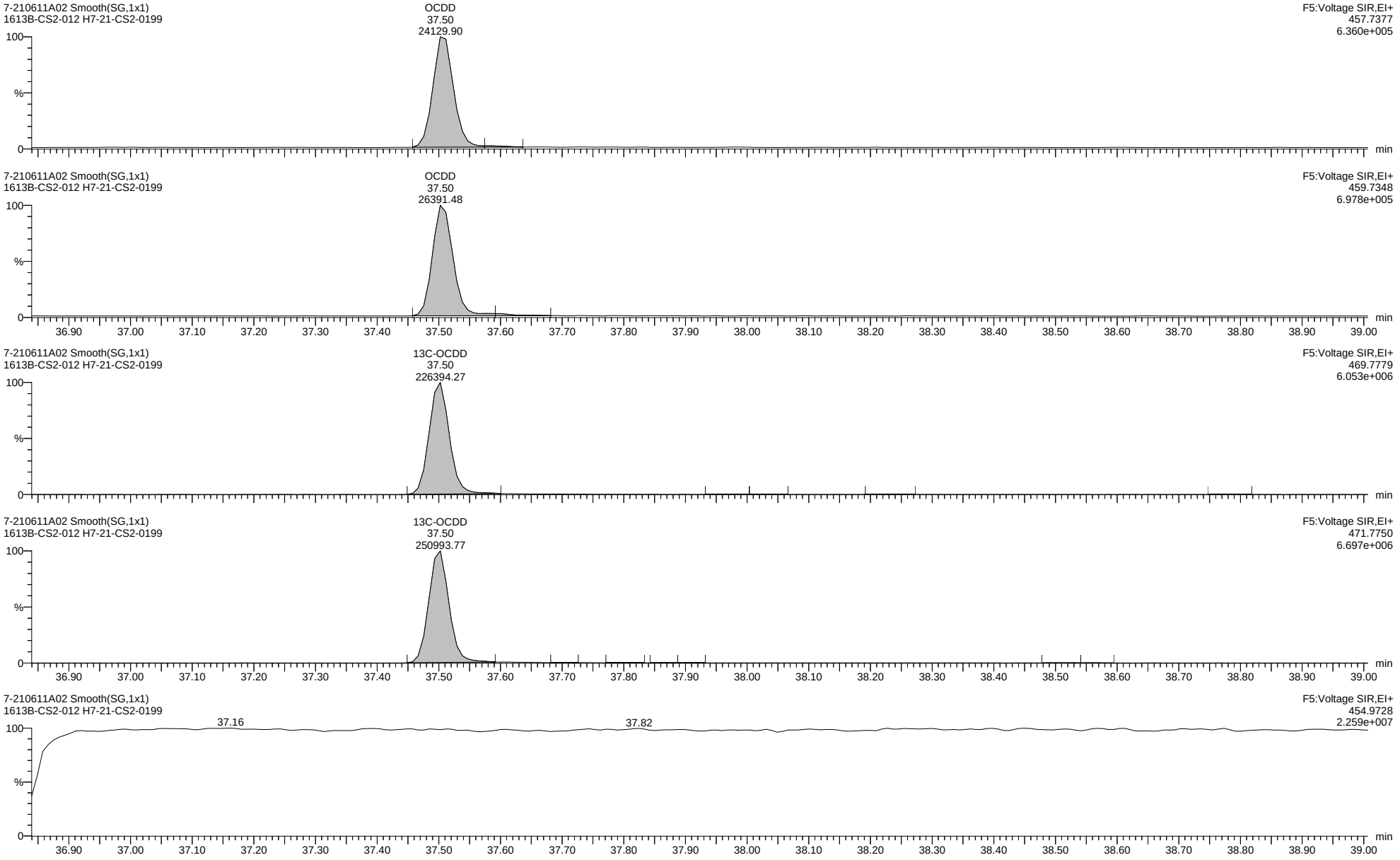

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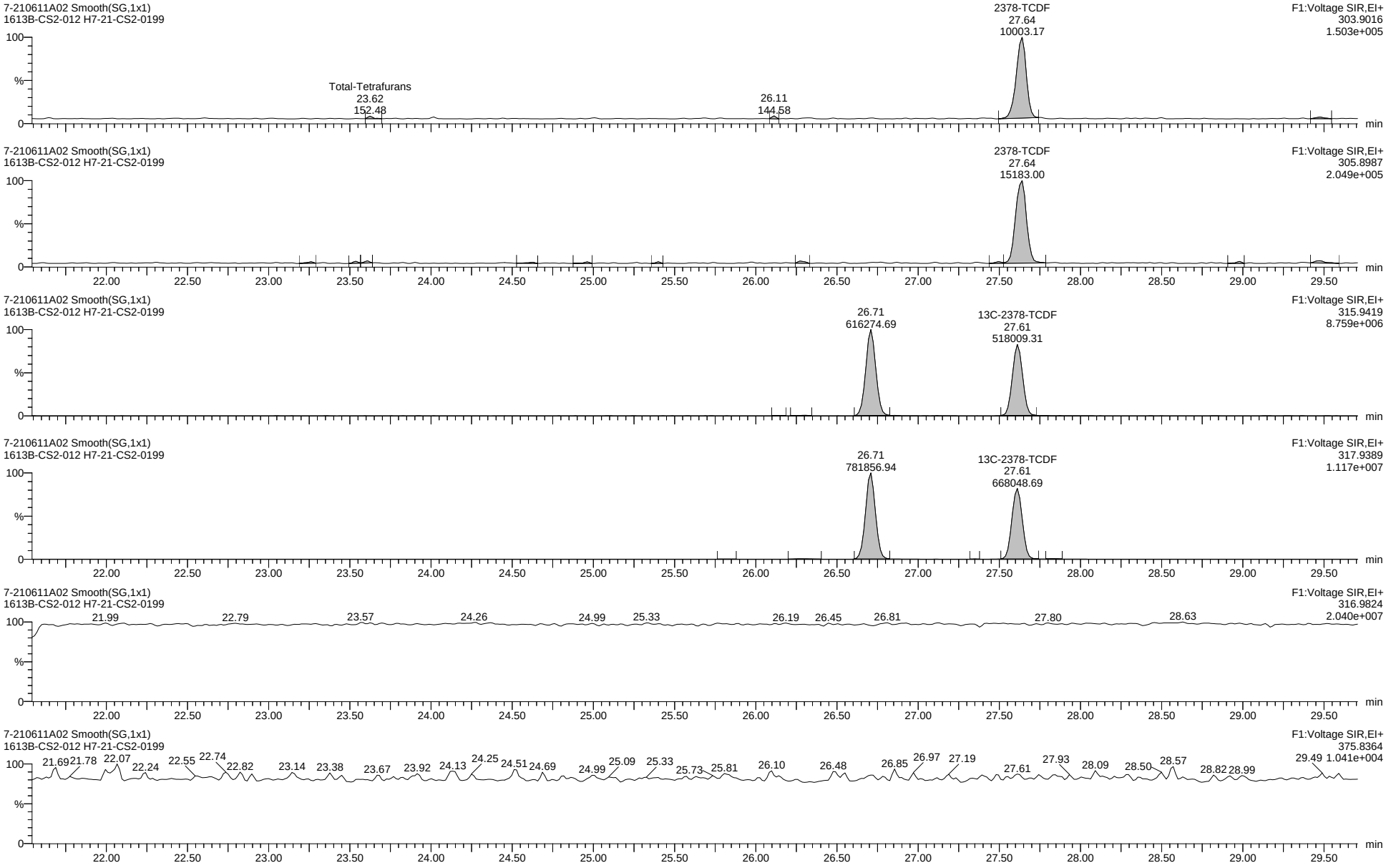

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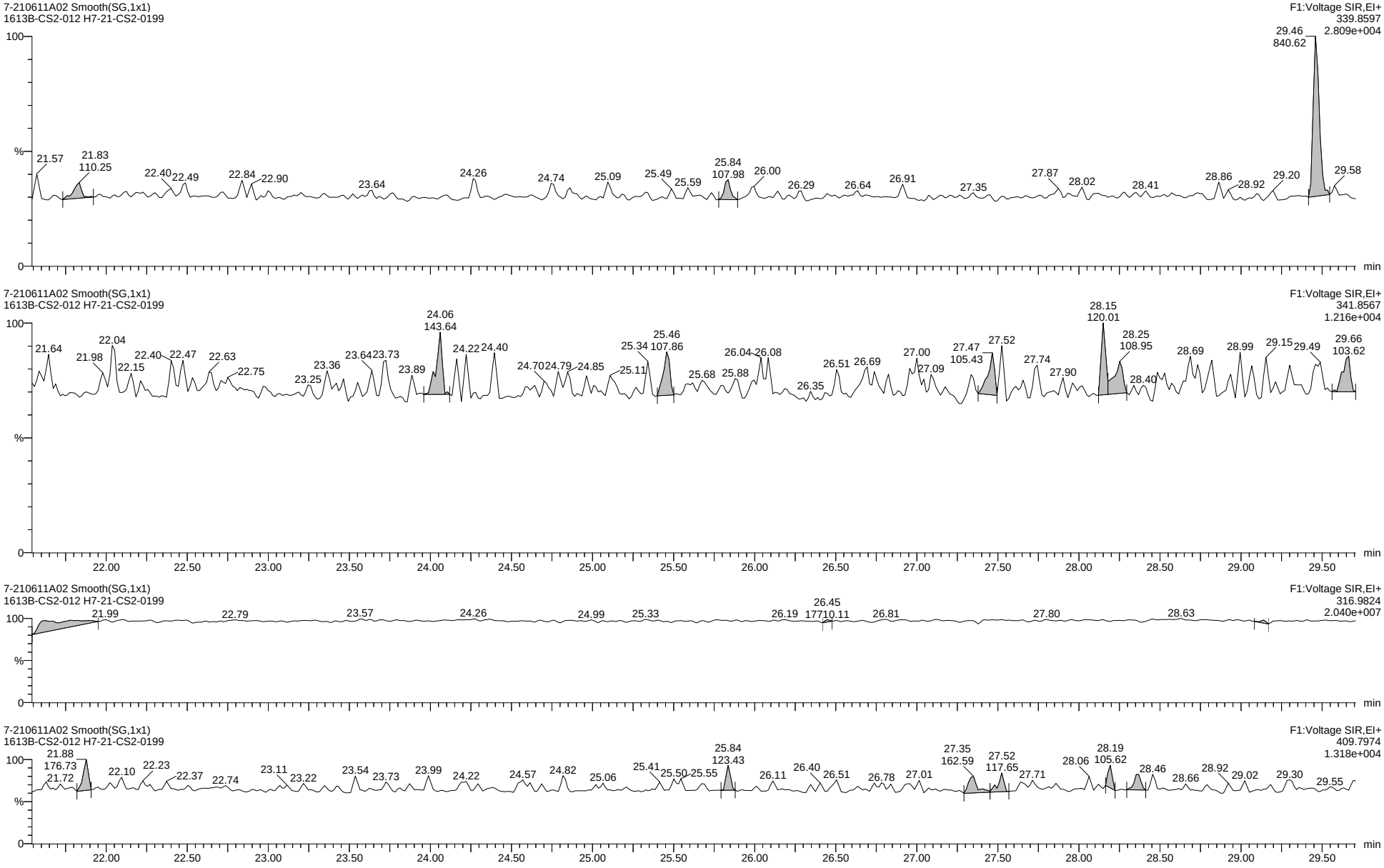

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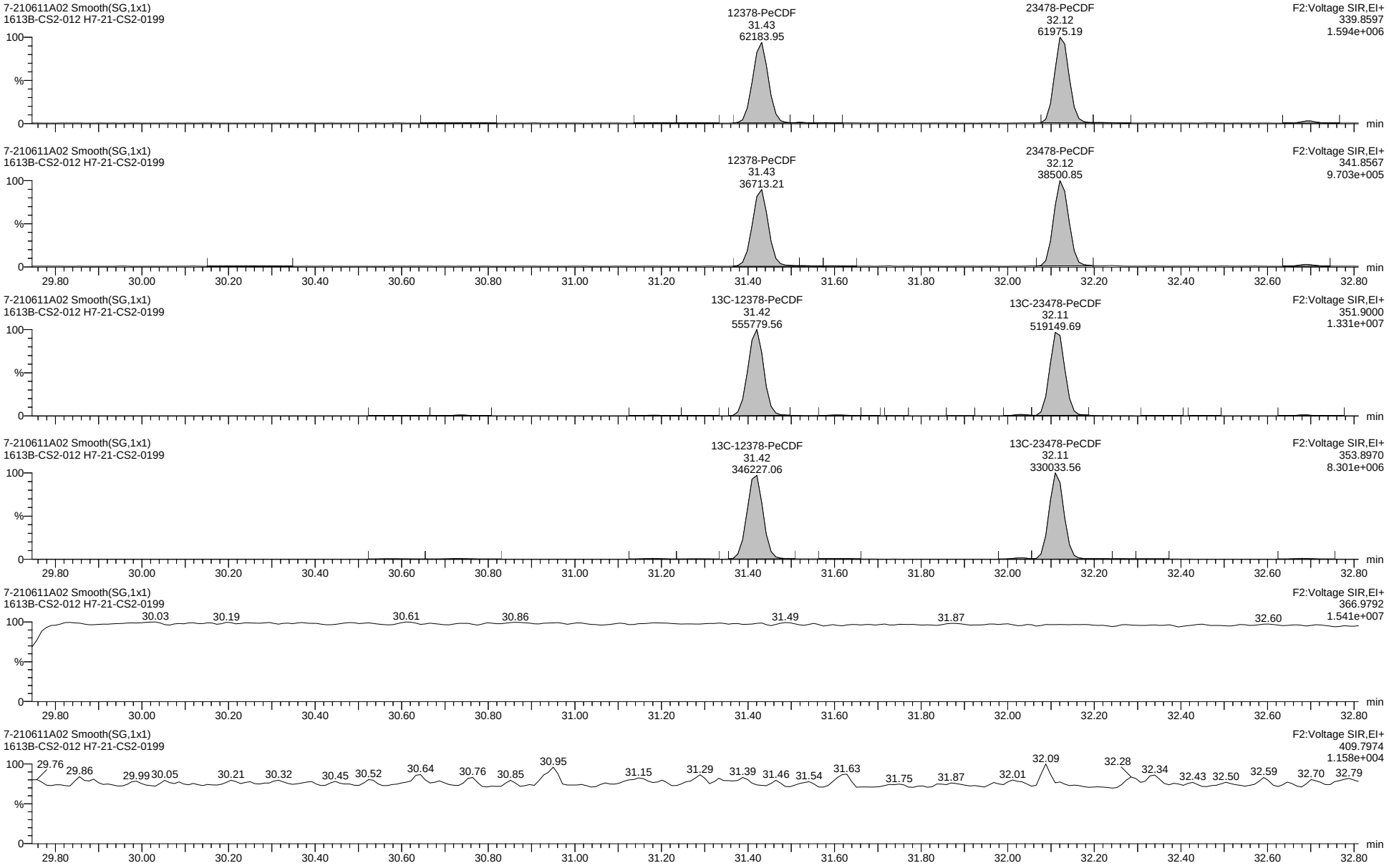

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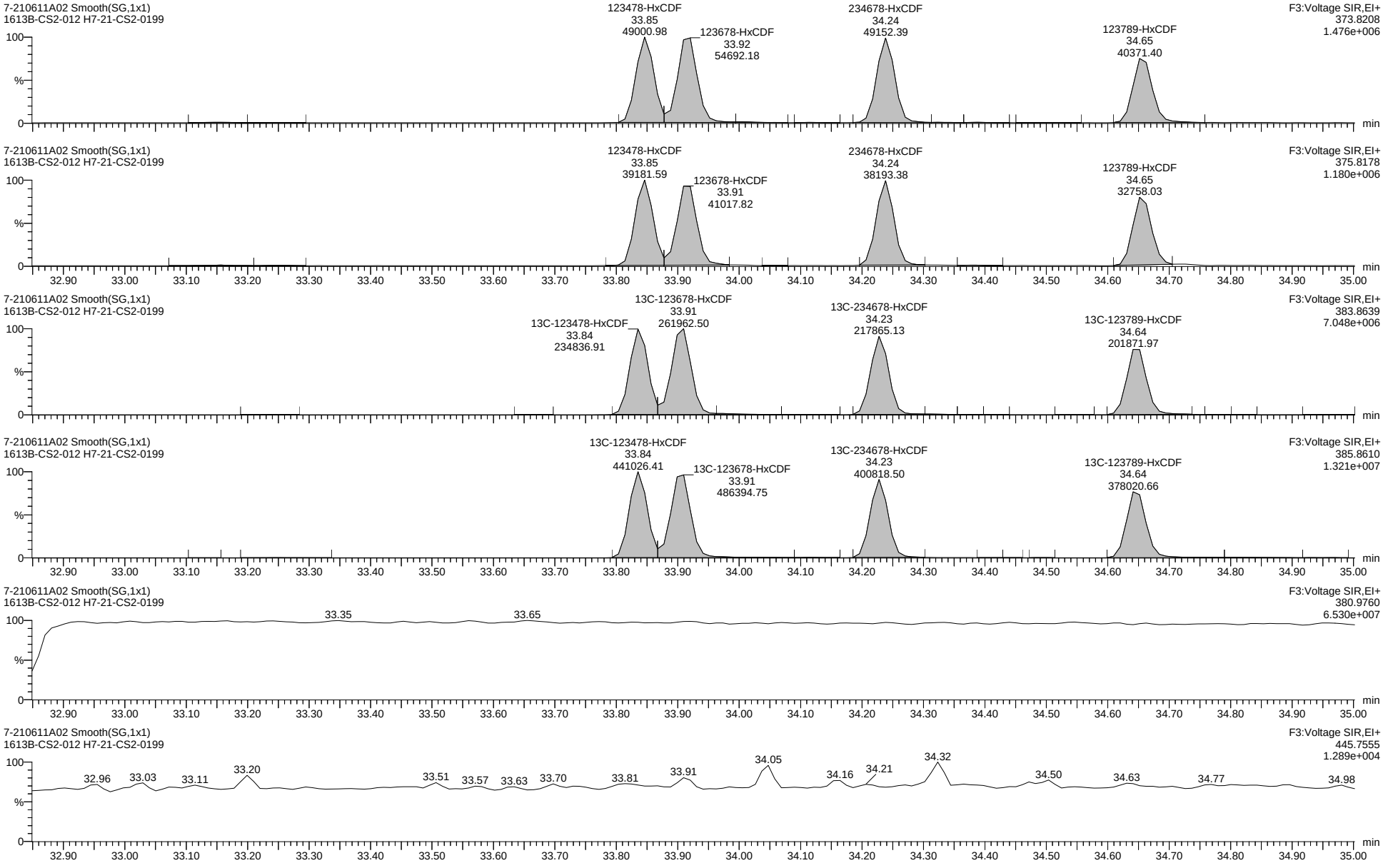

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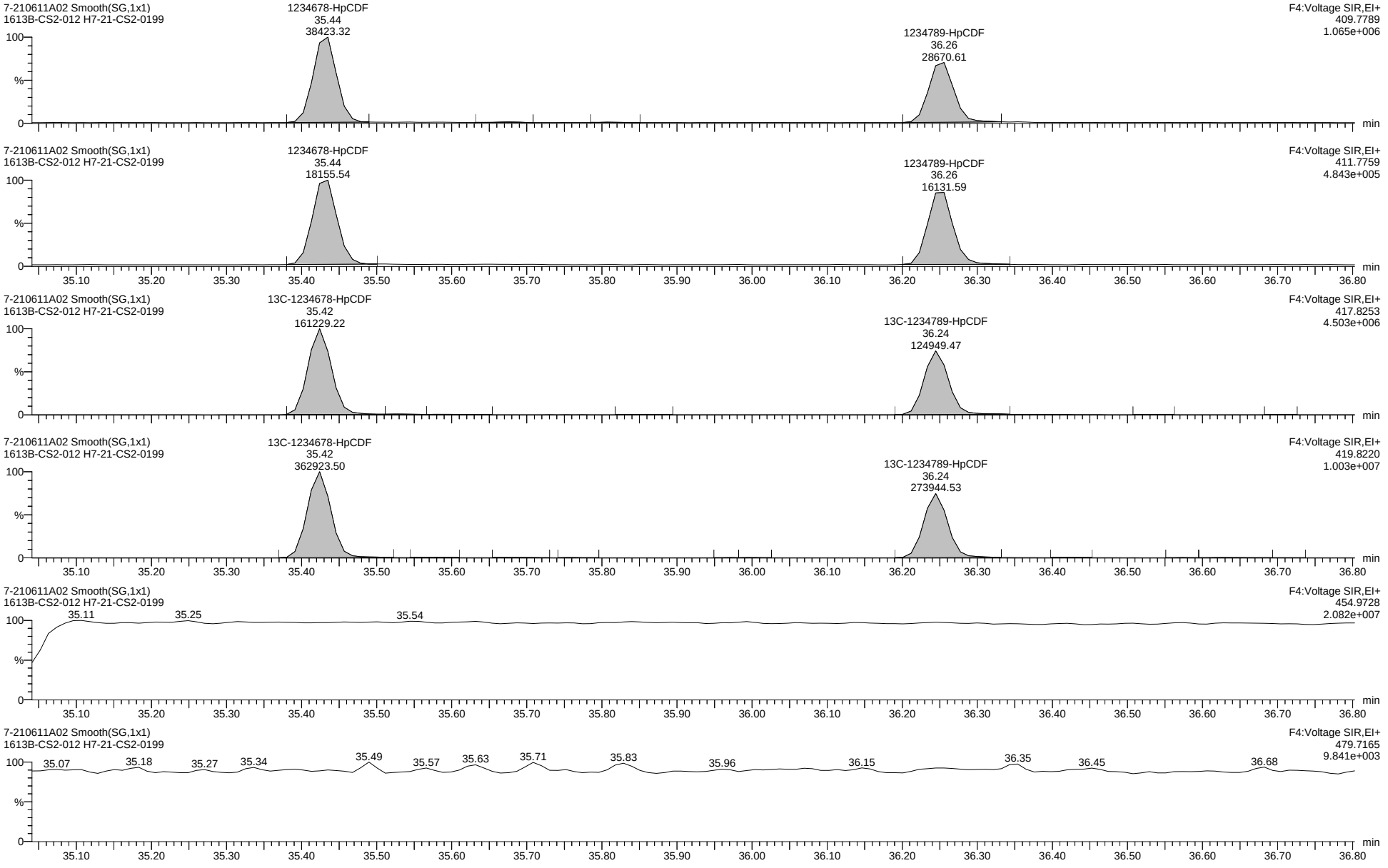

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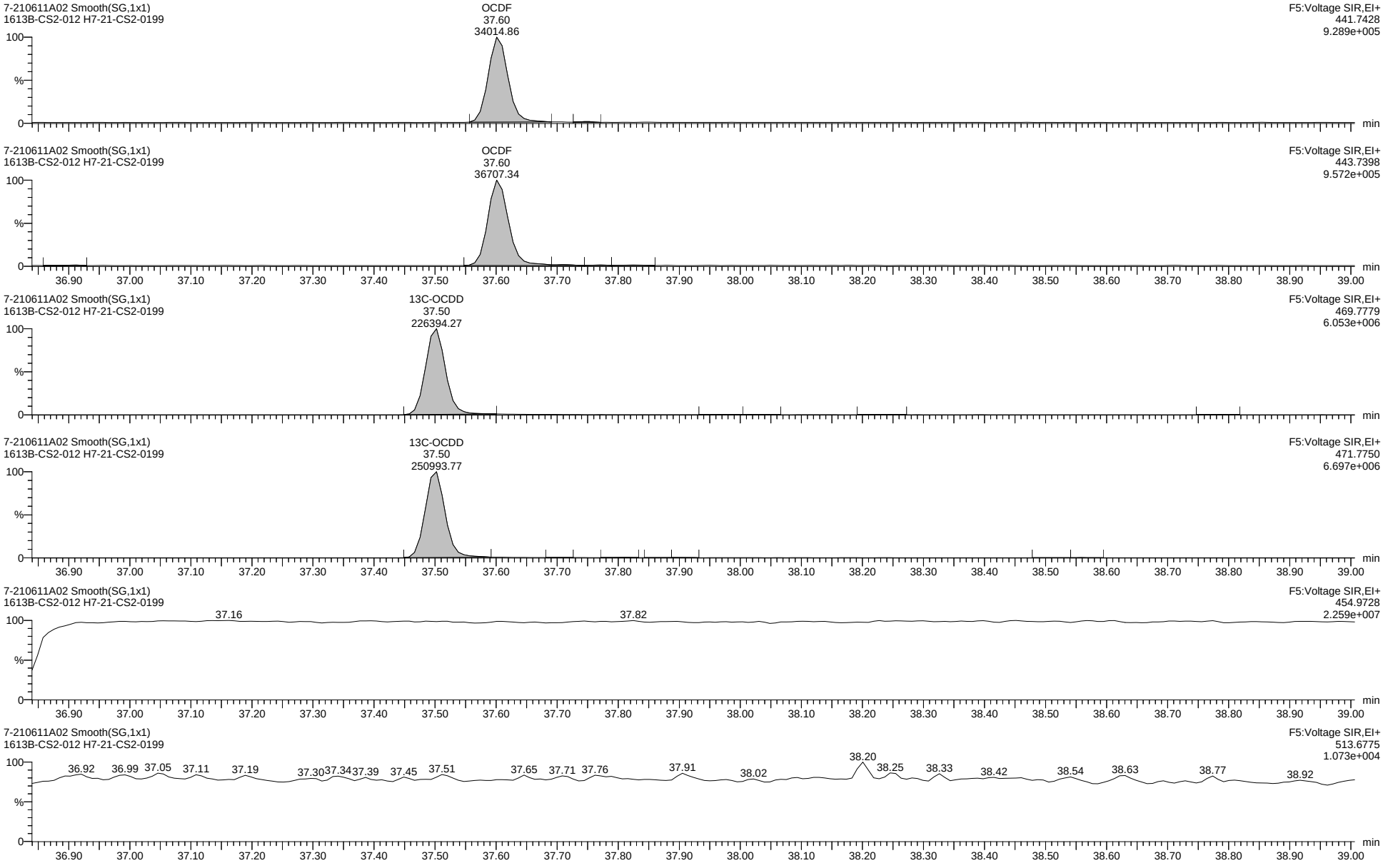

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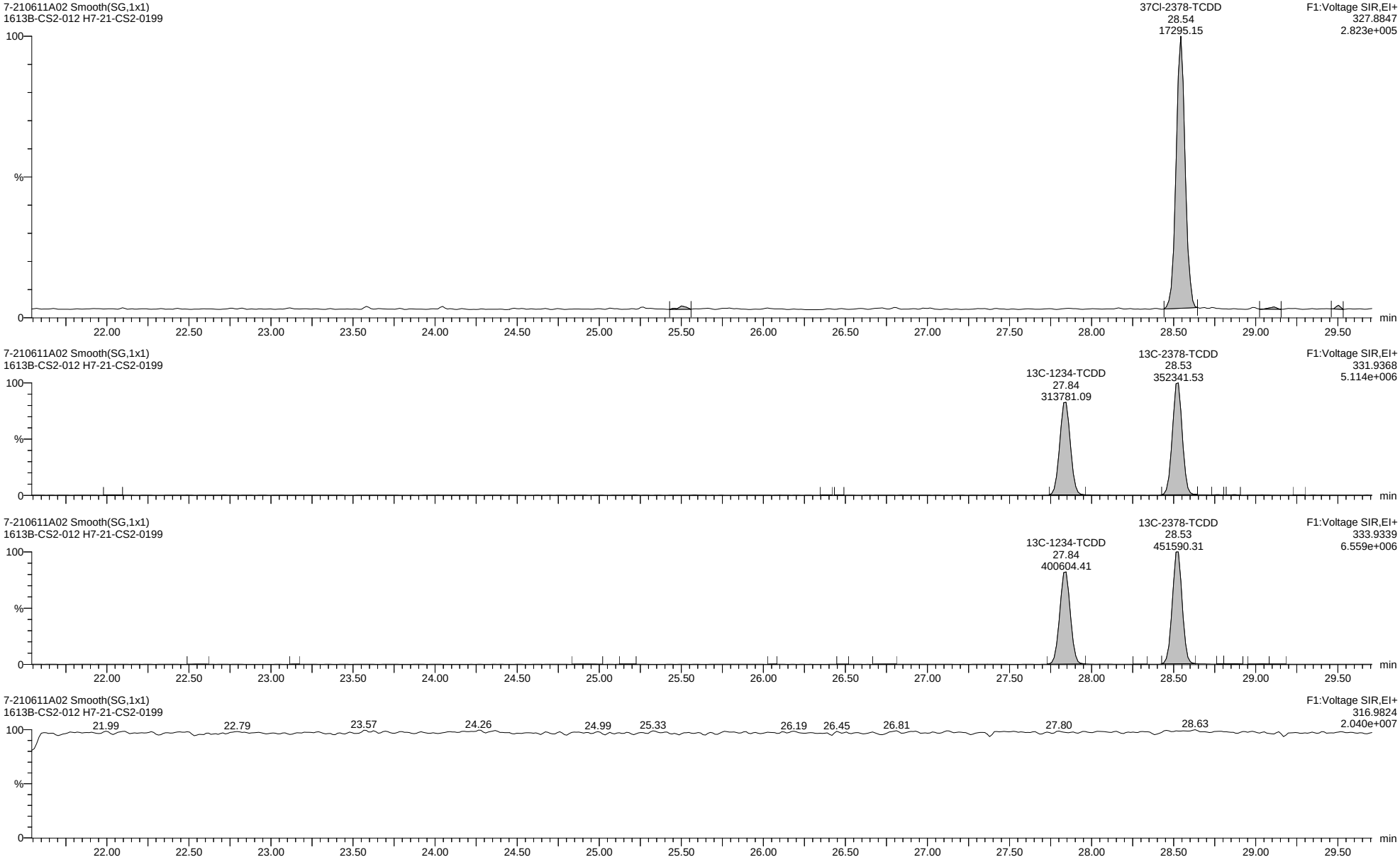

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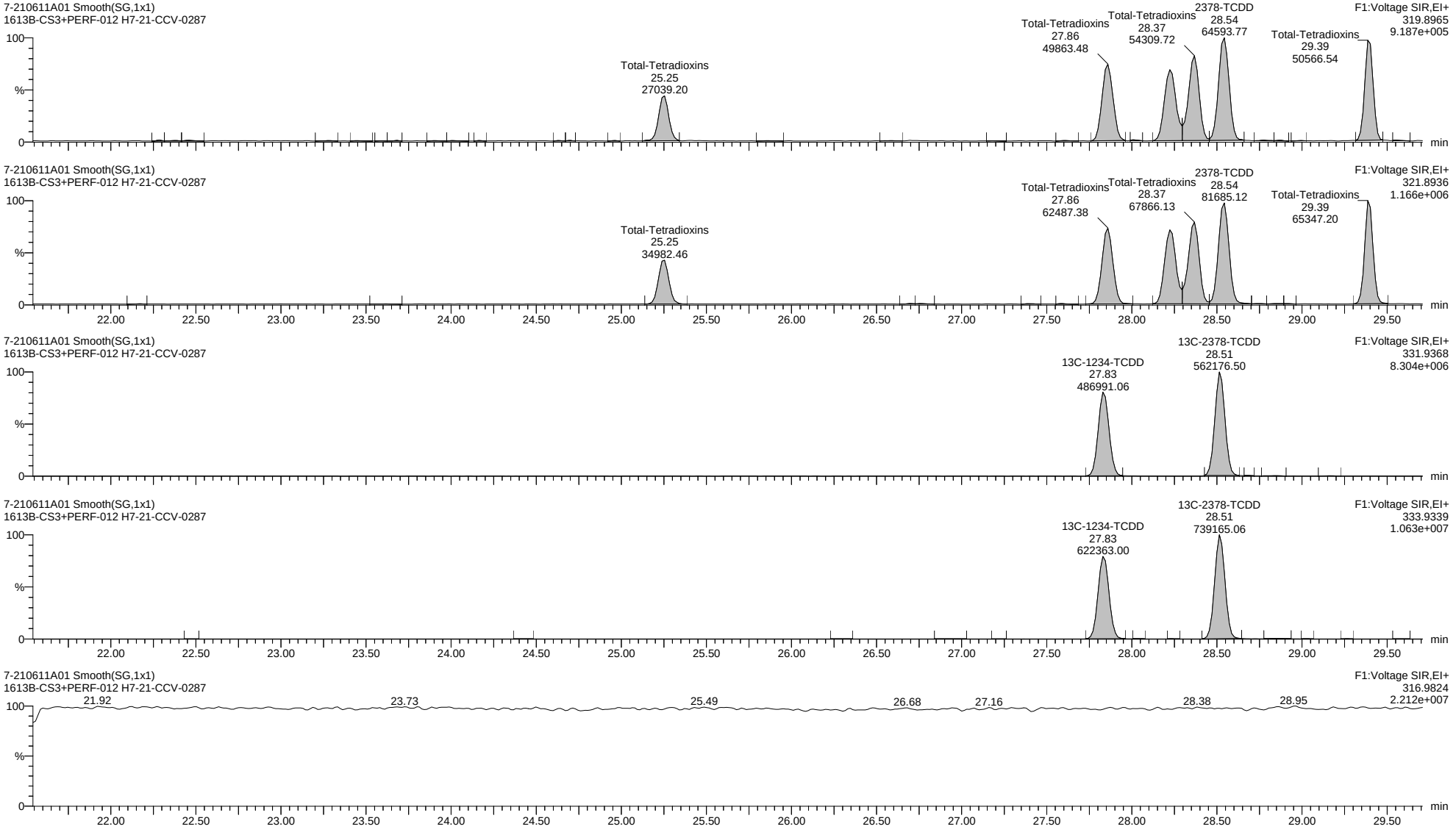

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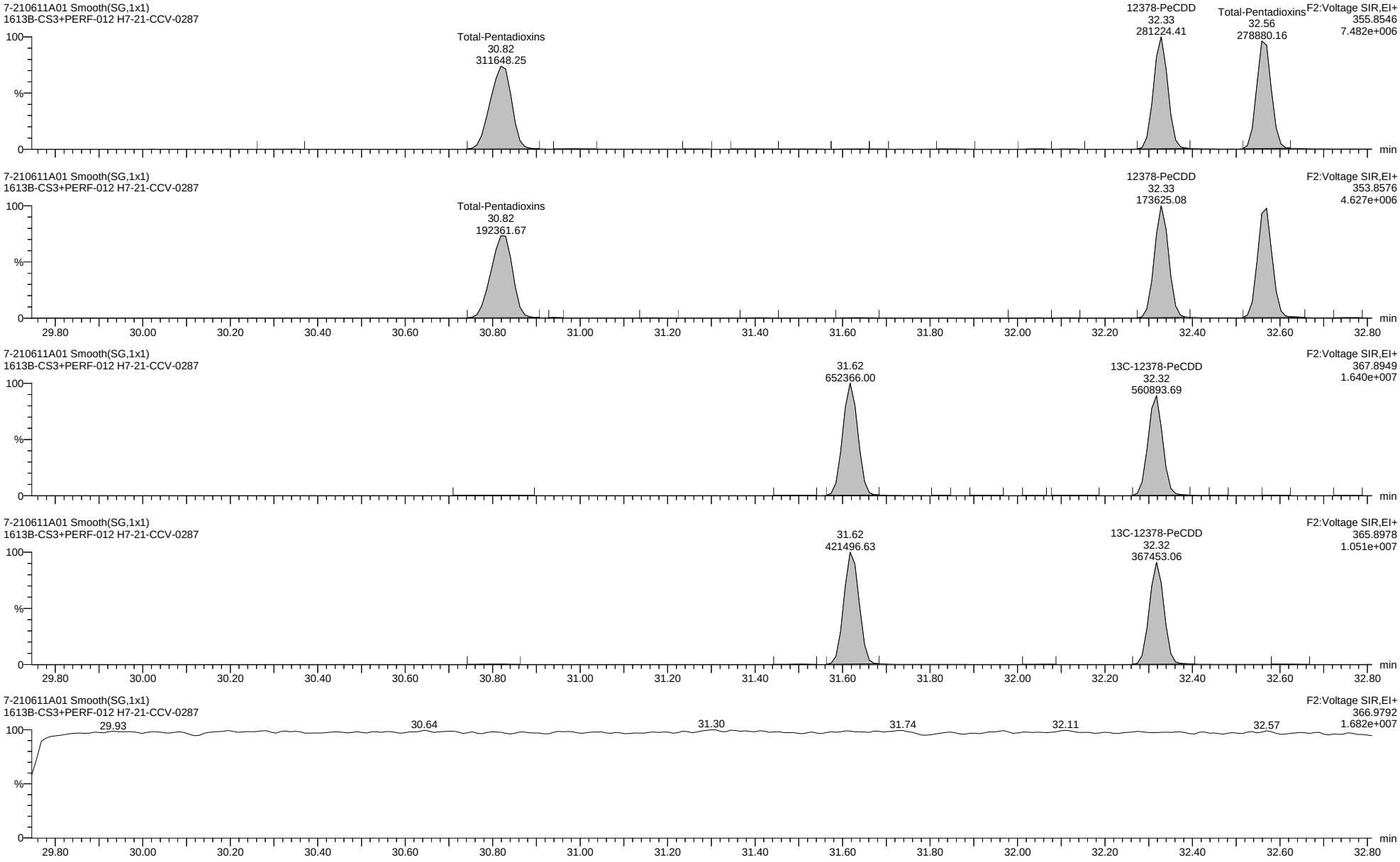

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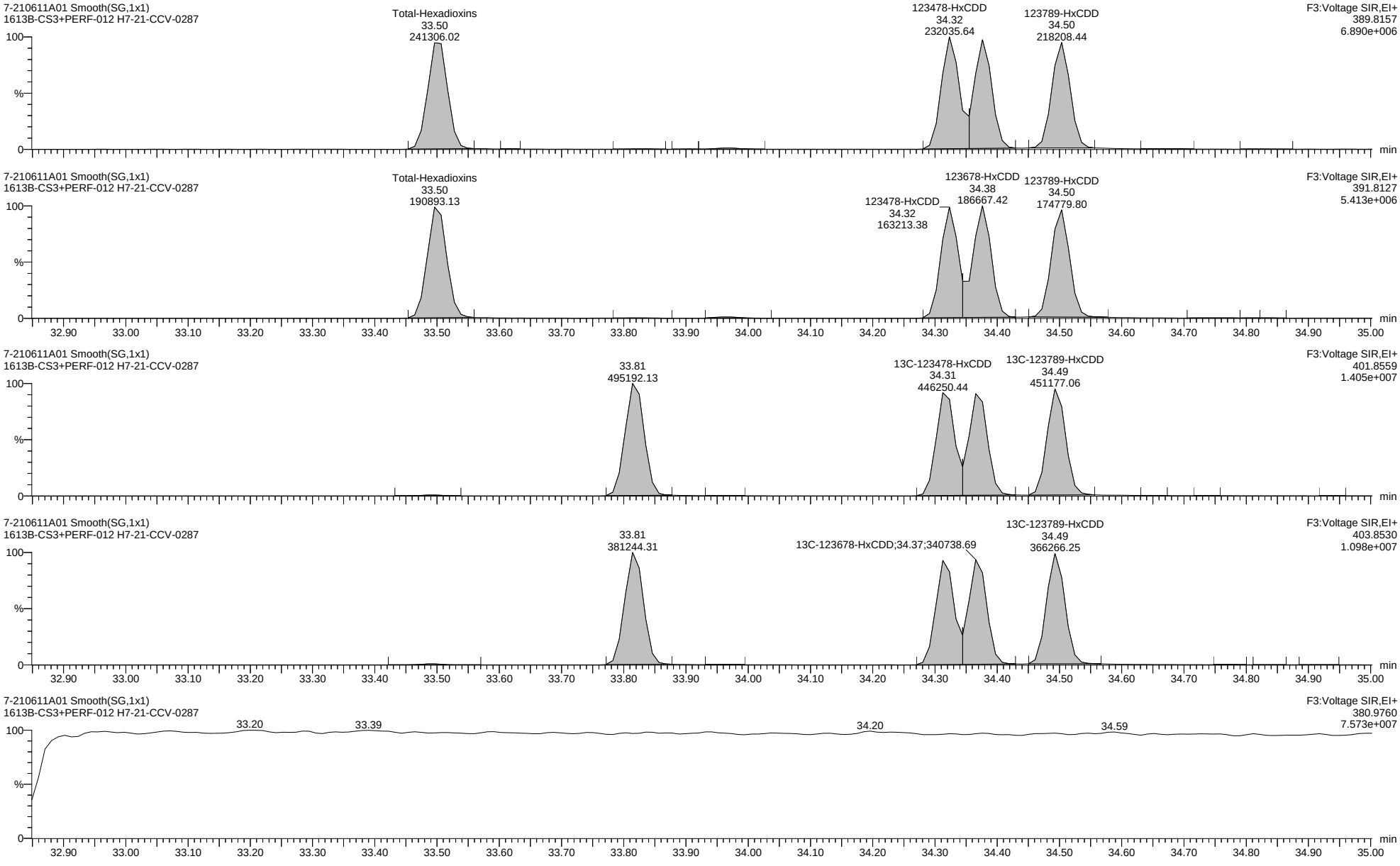

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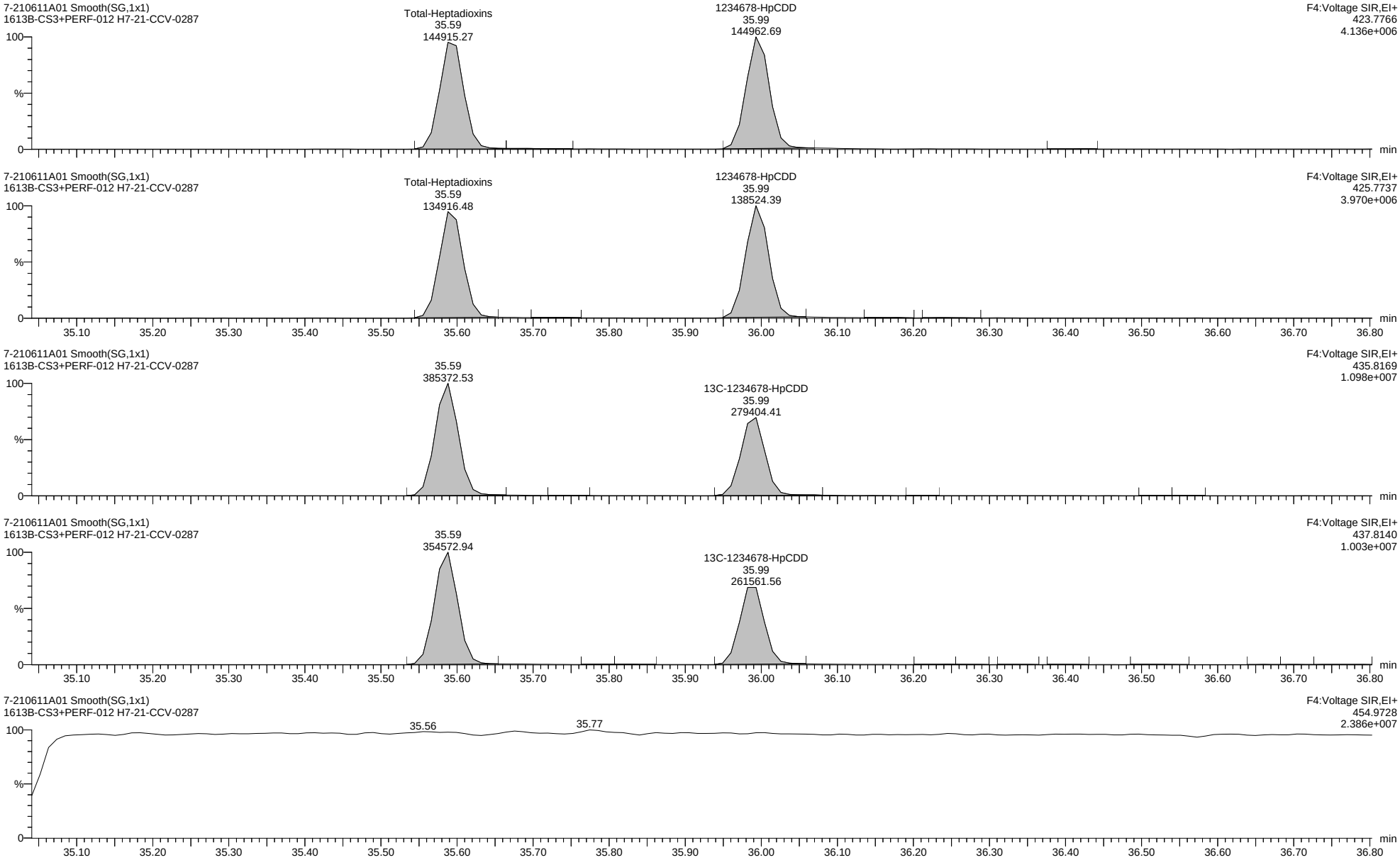

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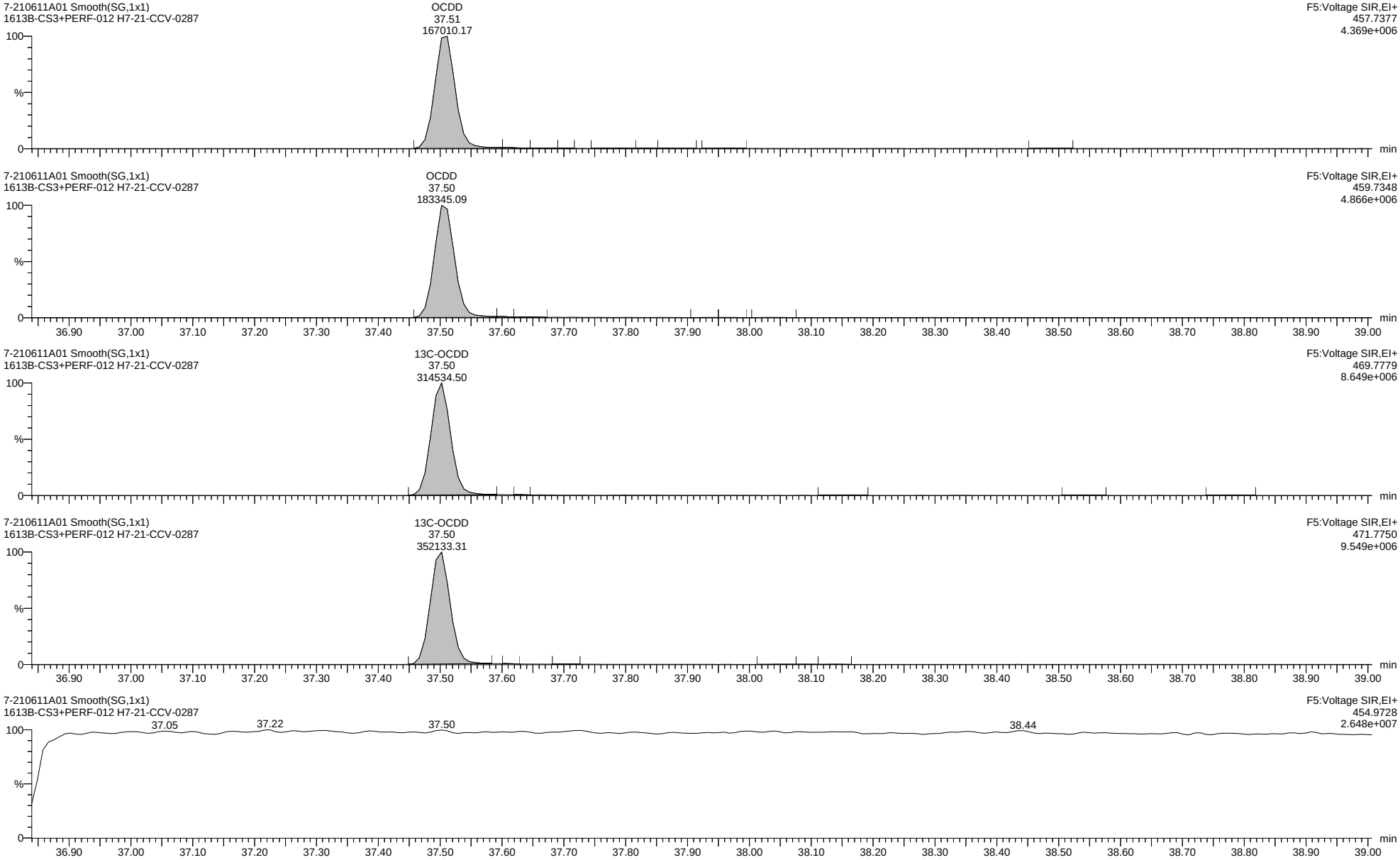

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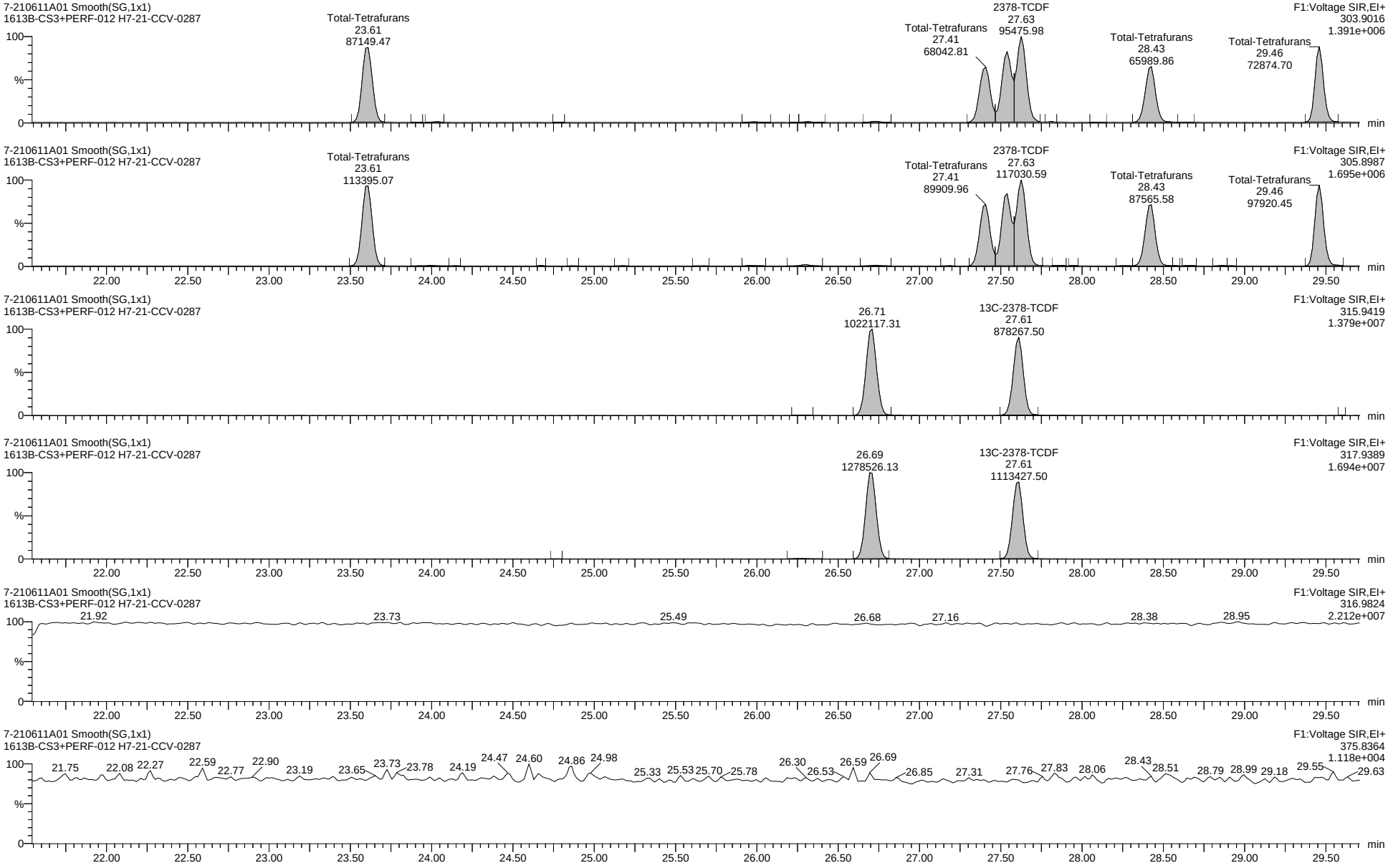

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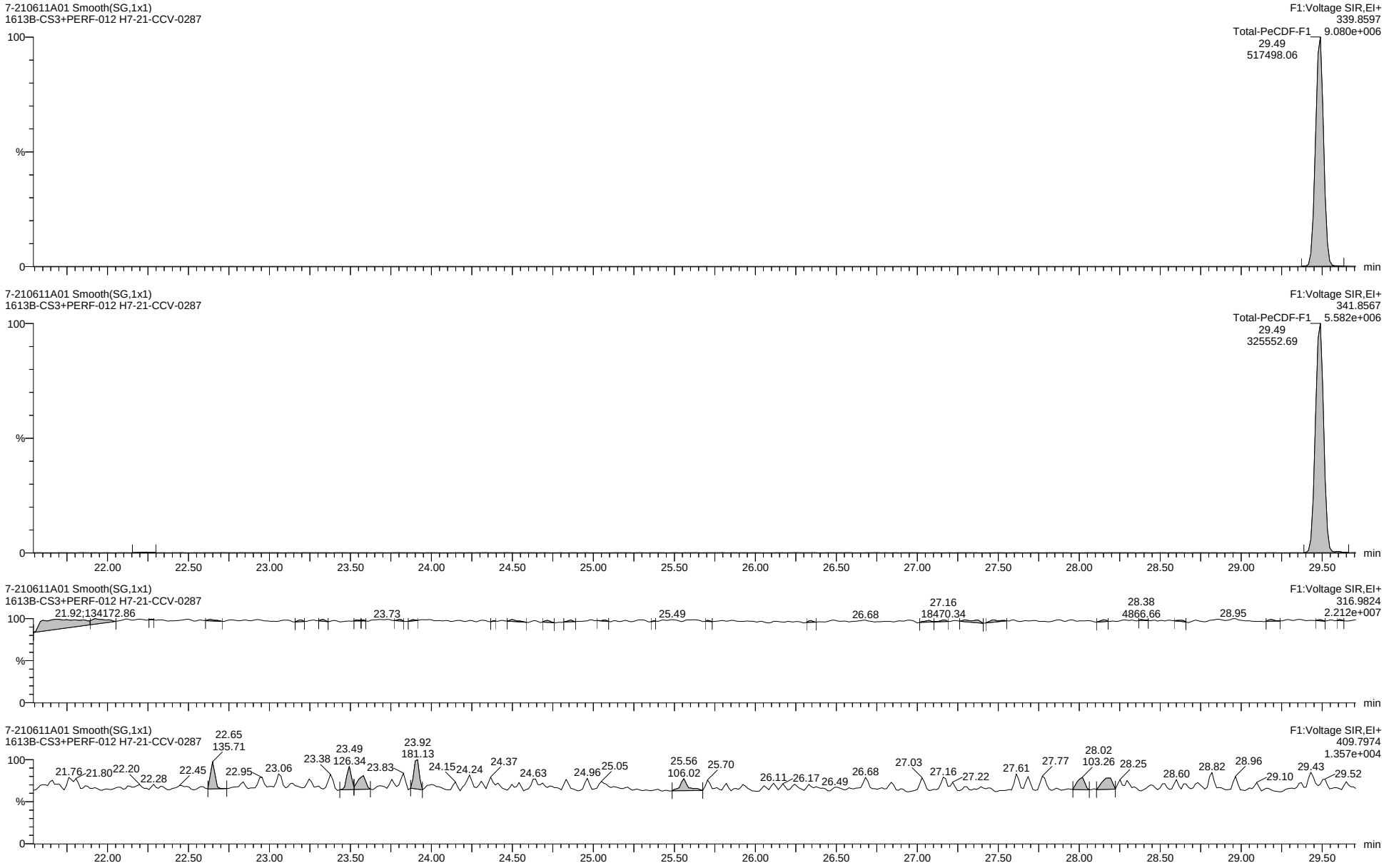

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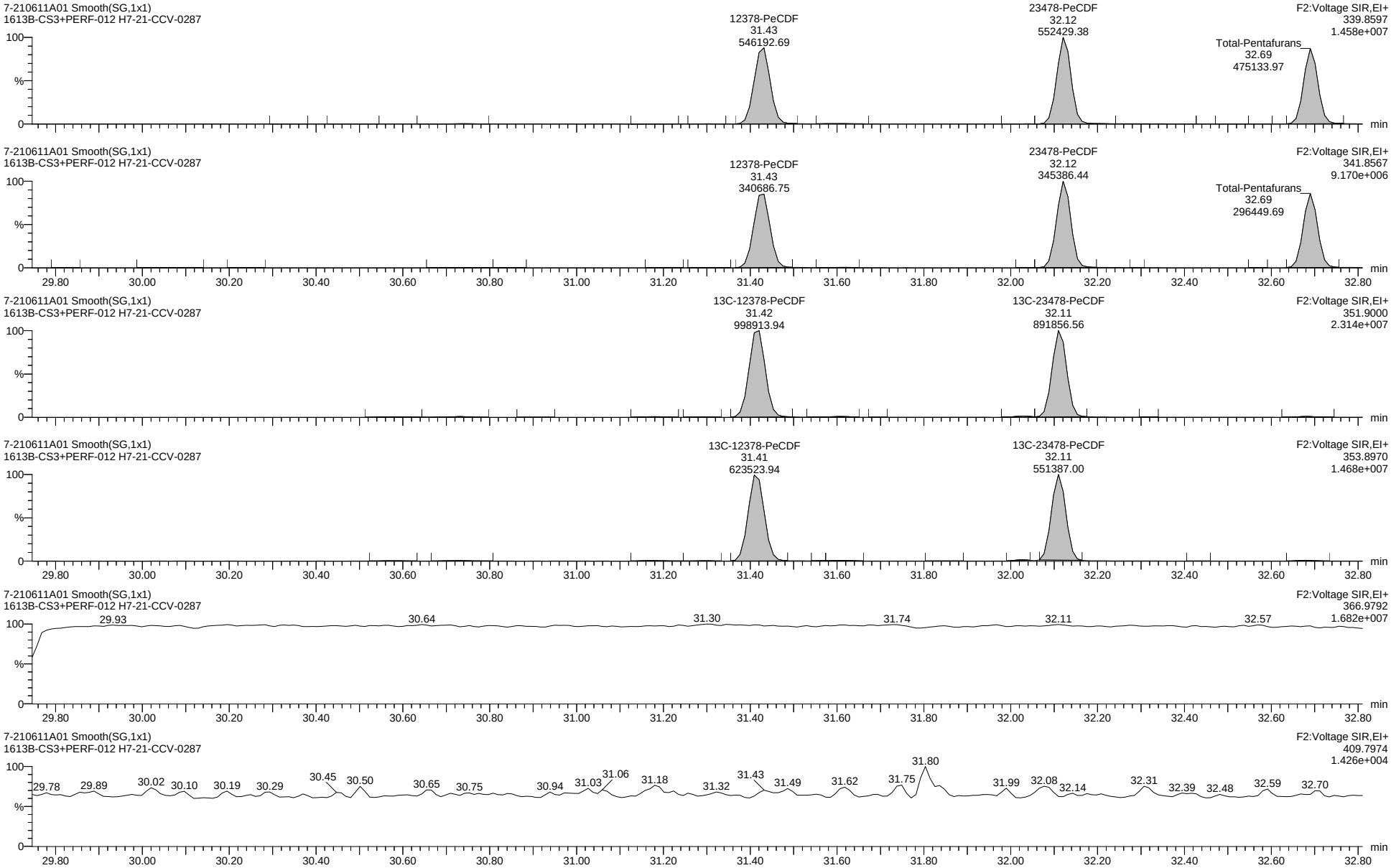

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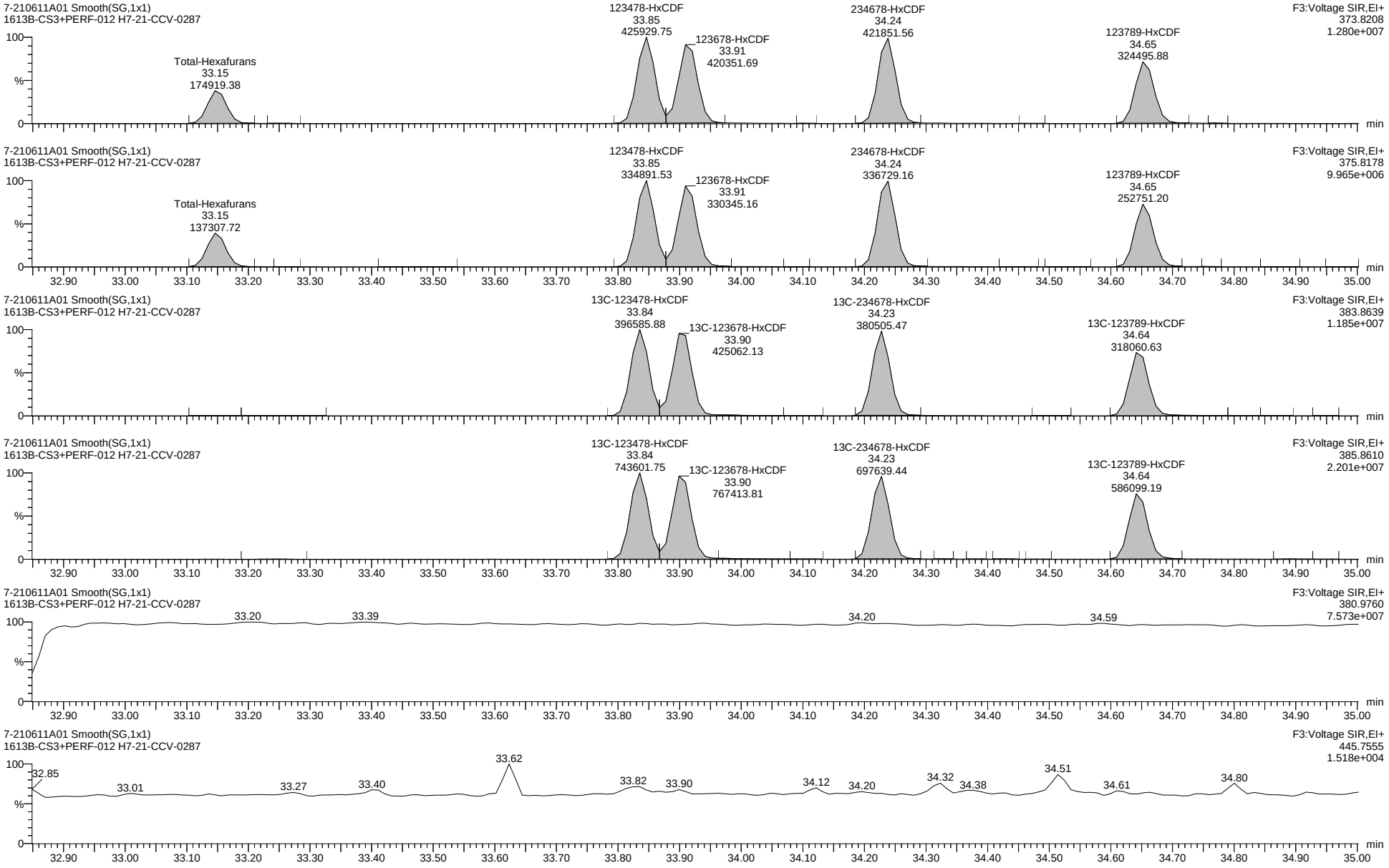

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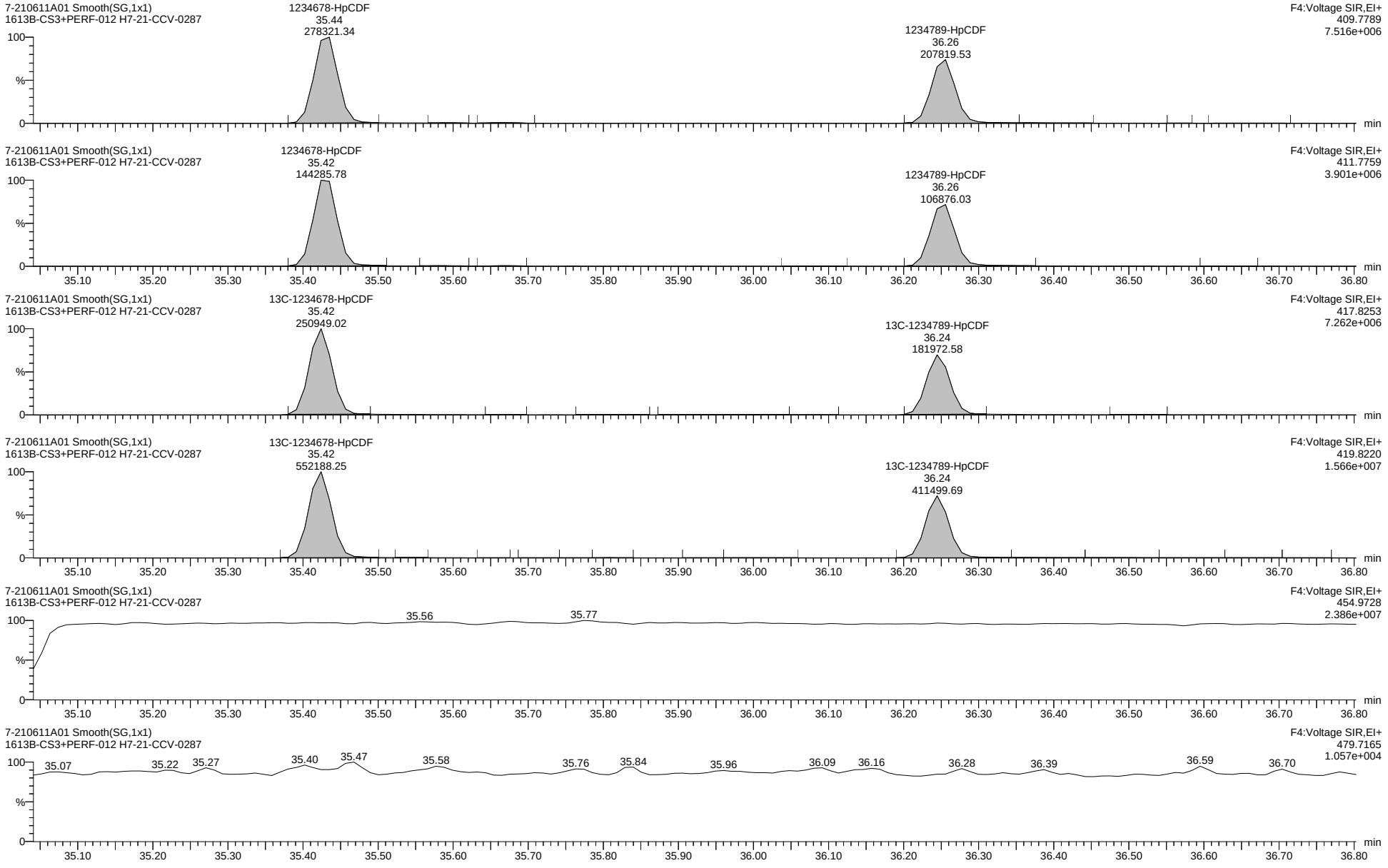

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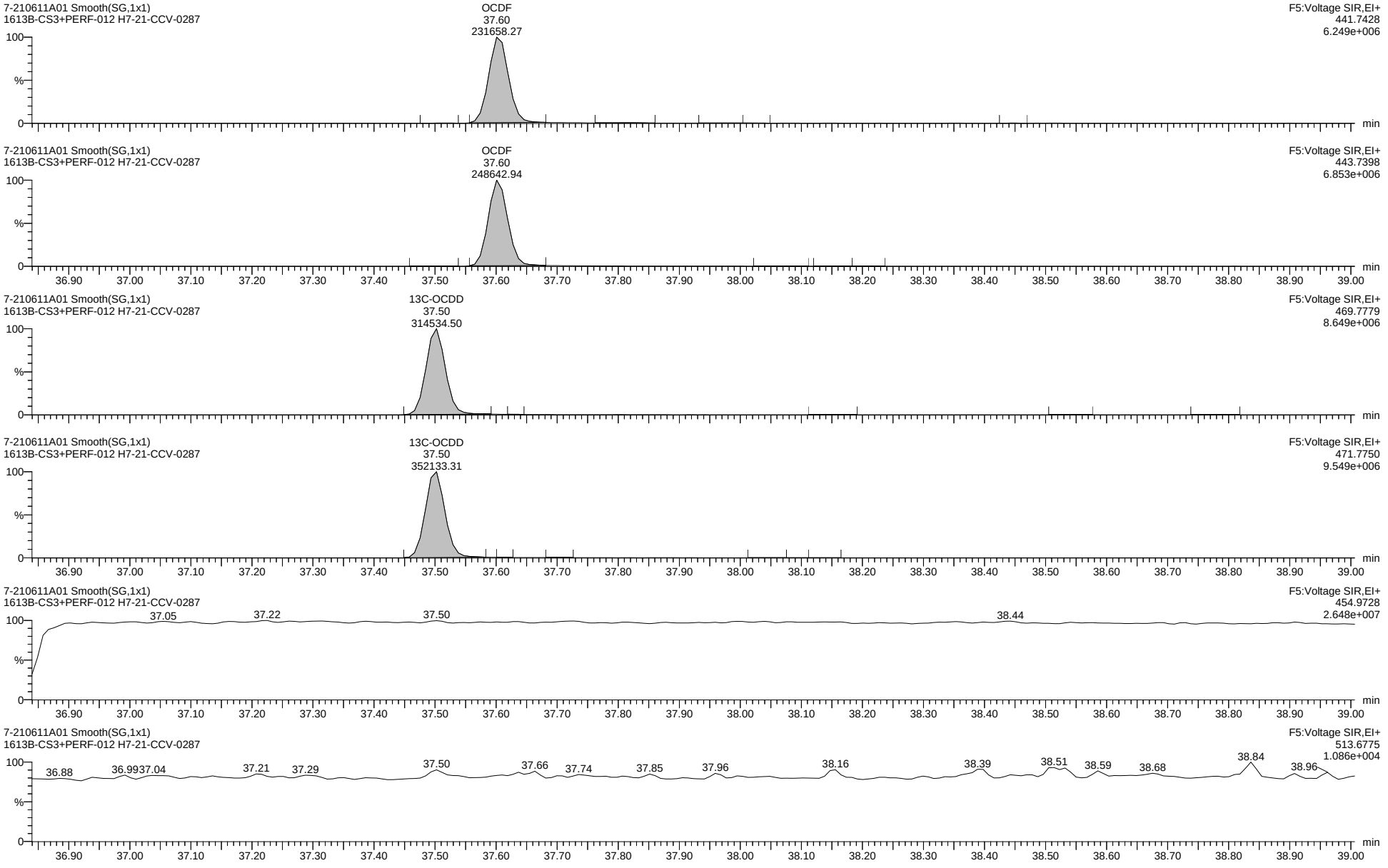

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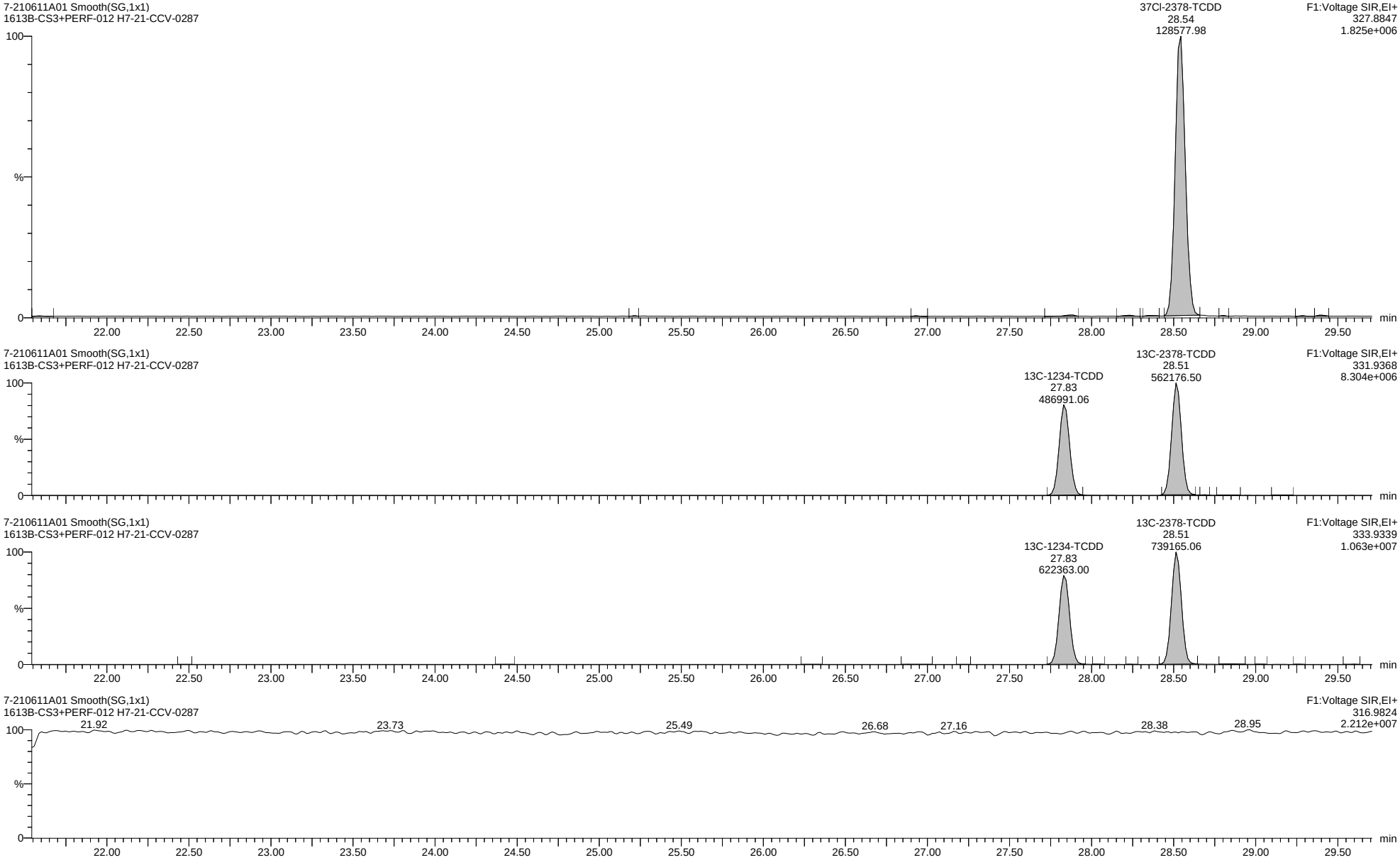

Quantify Sample Template Report **MassLynx MassLynx V4.1 SCN 901**

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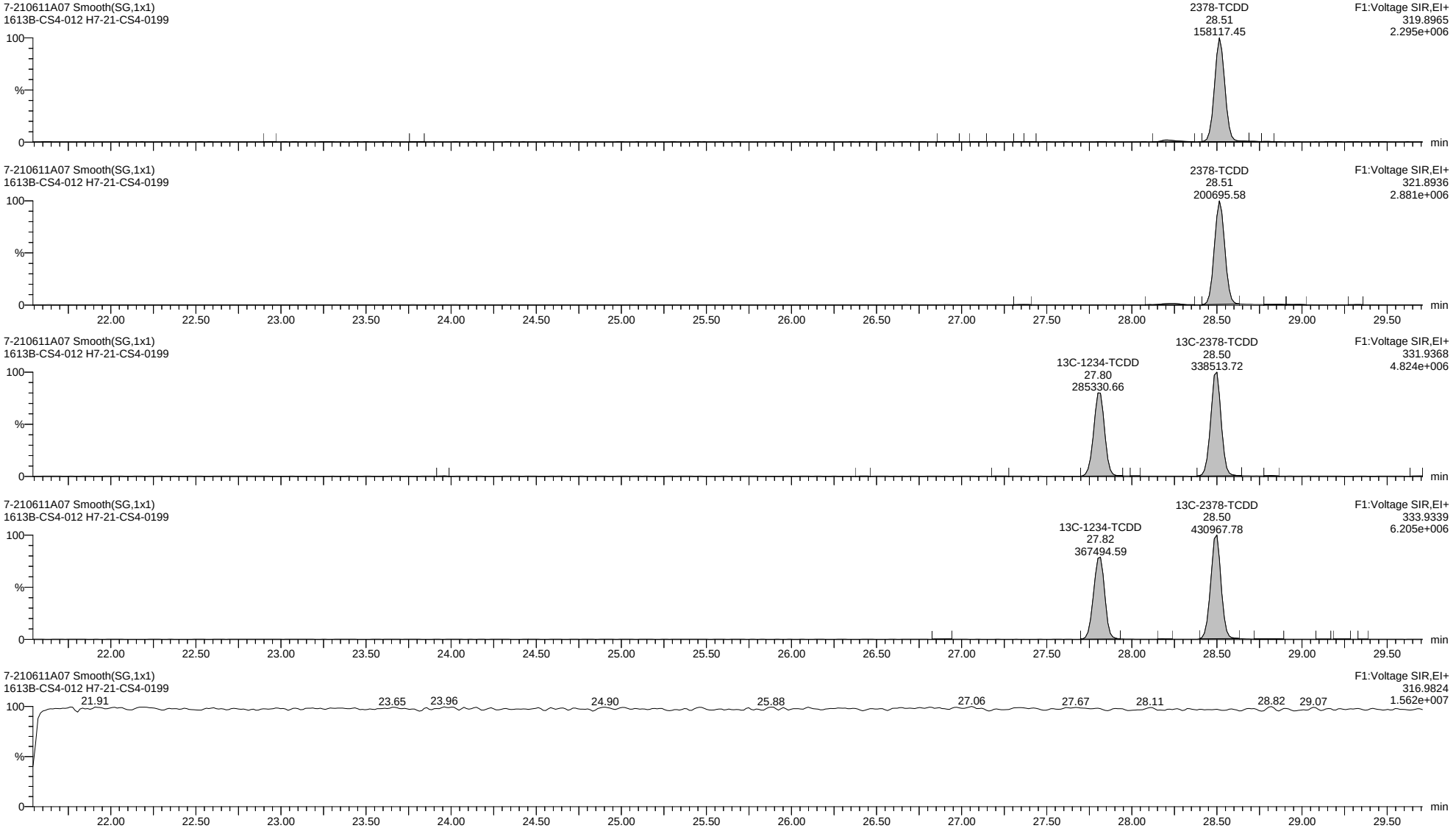

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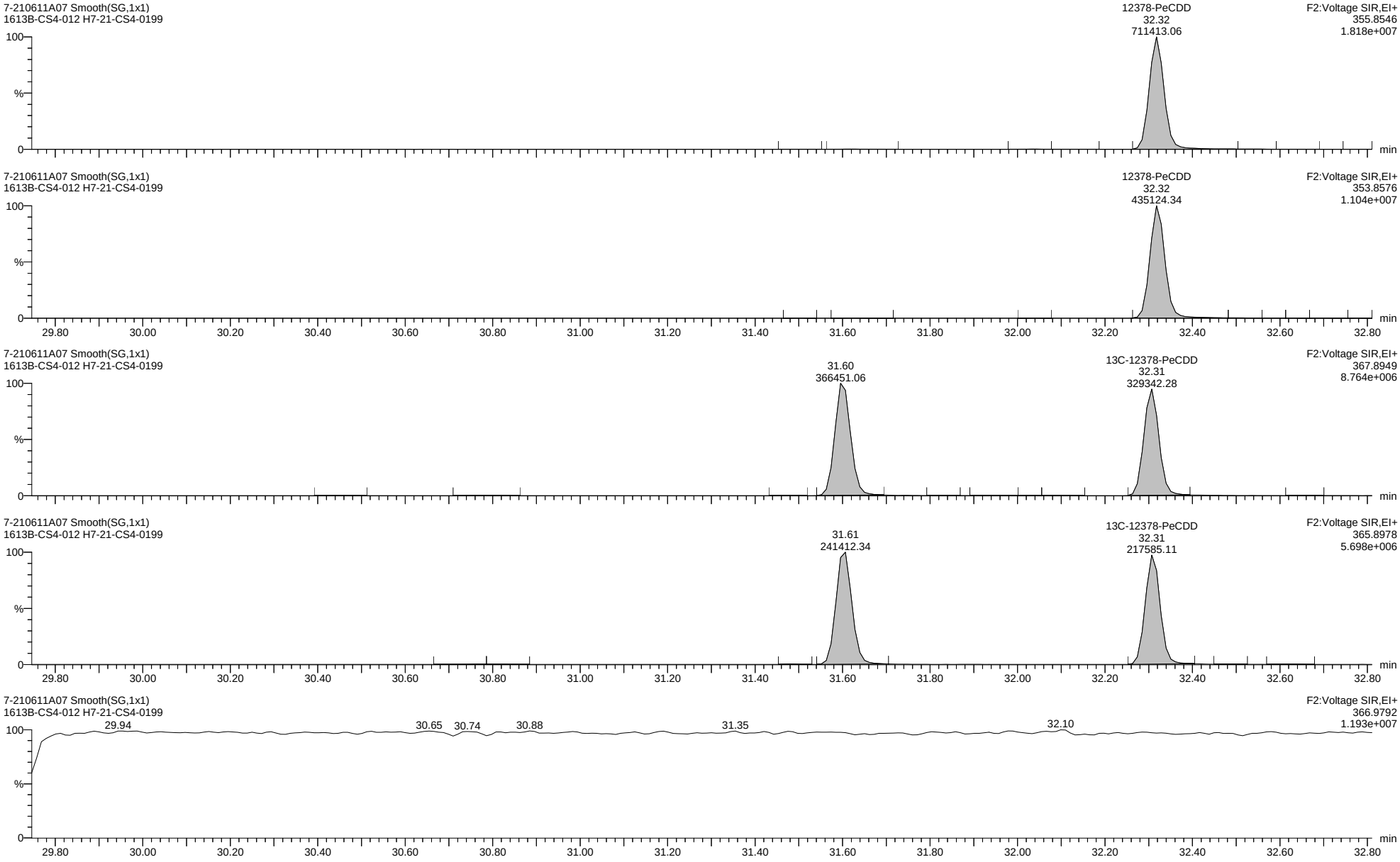

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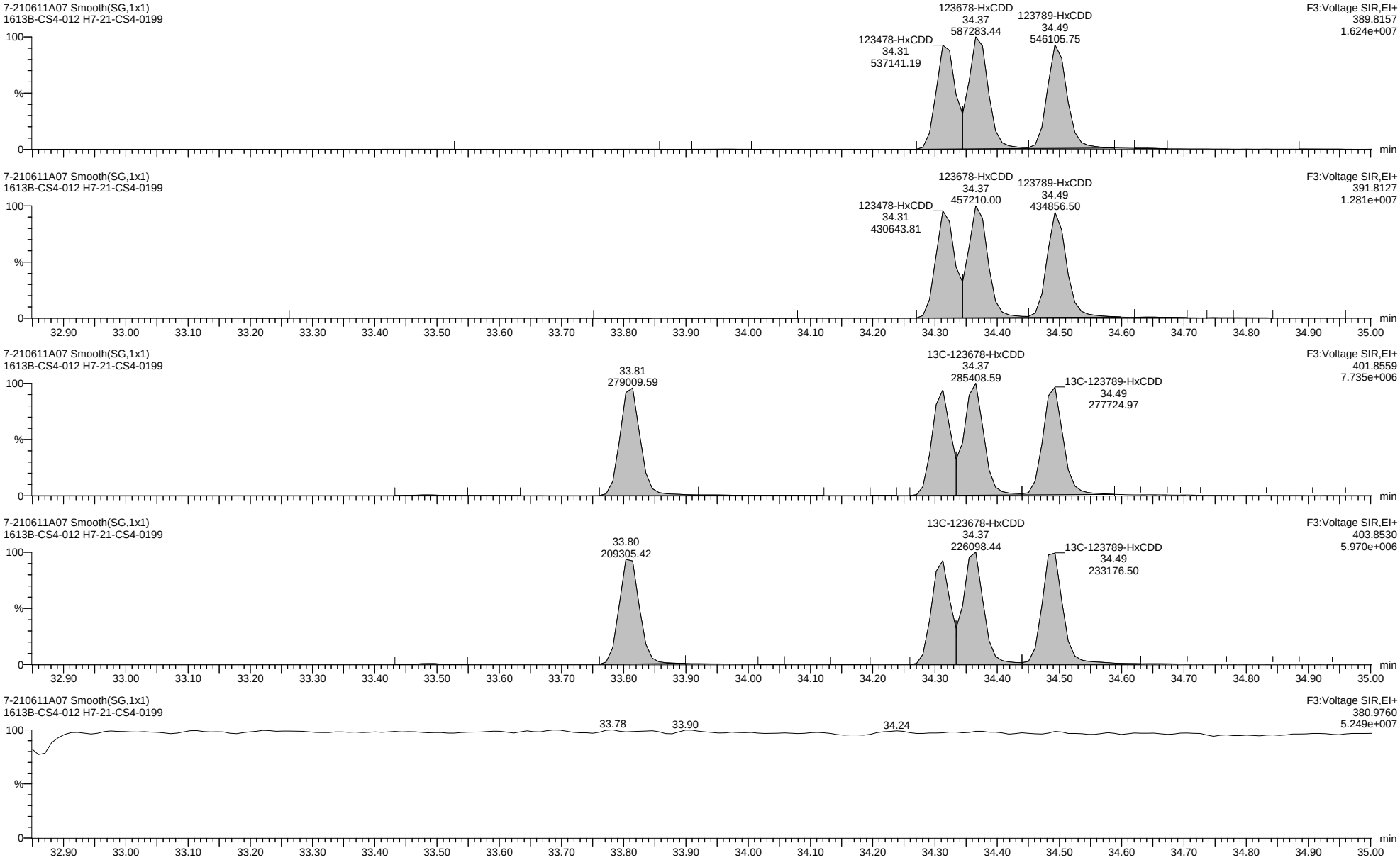

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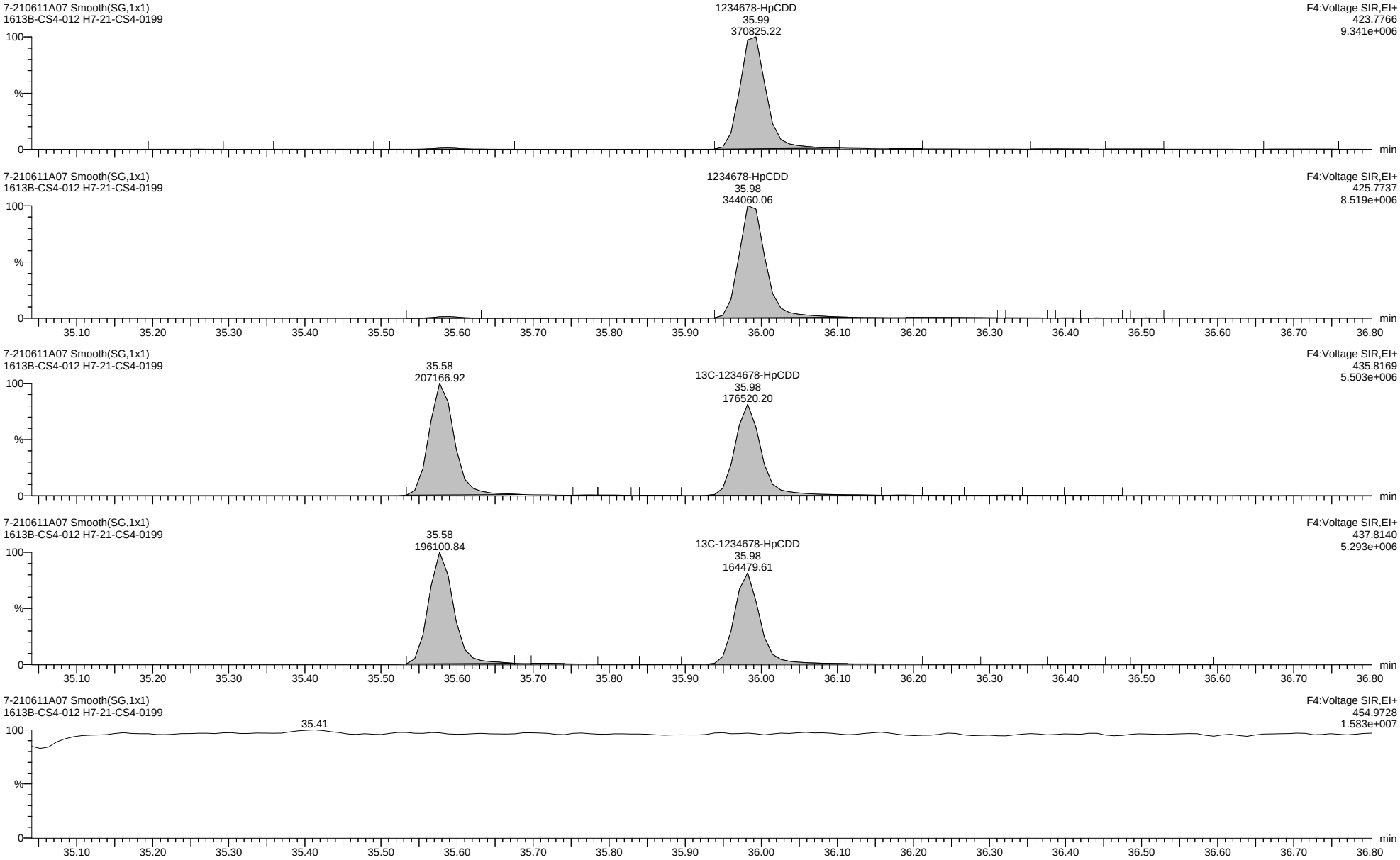

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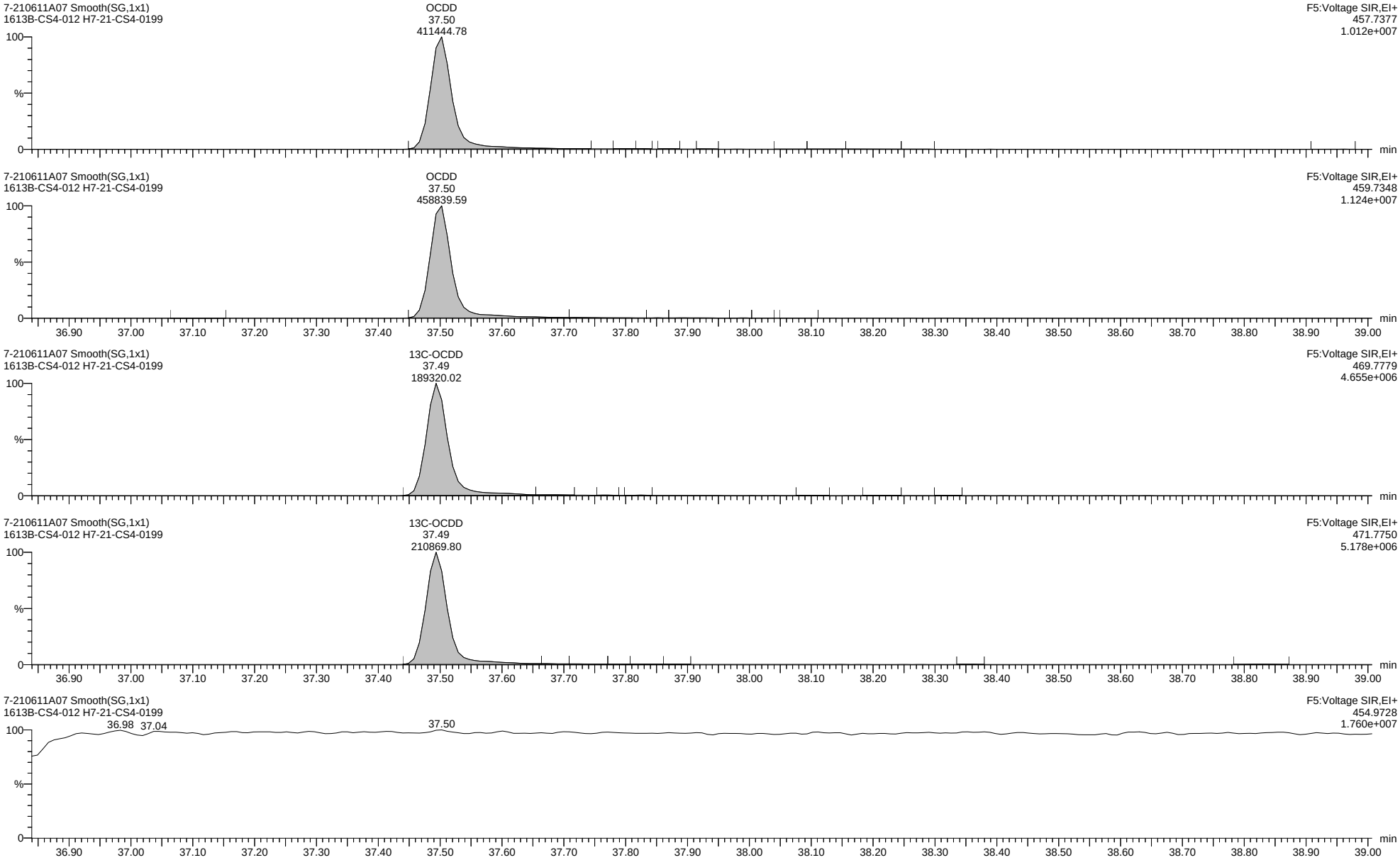

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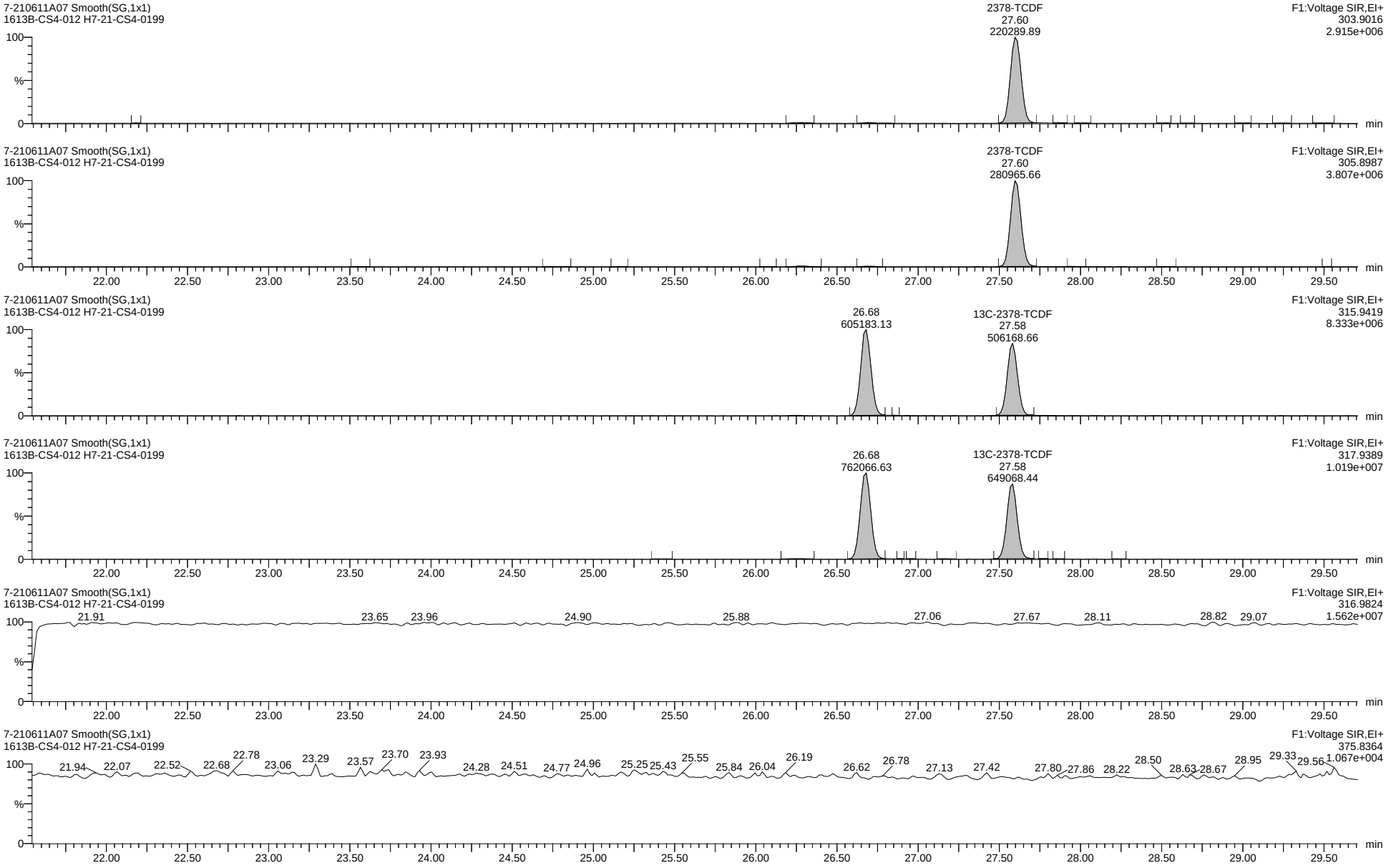

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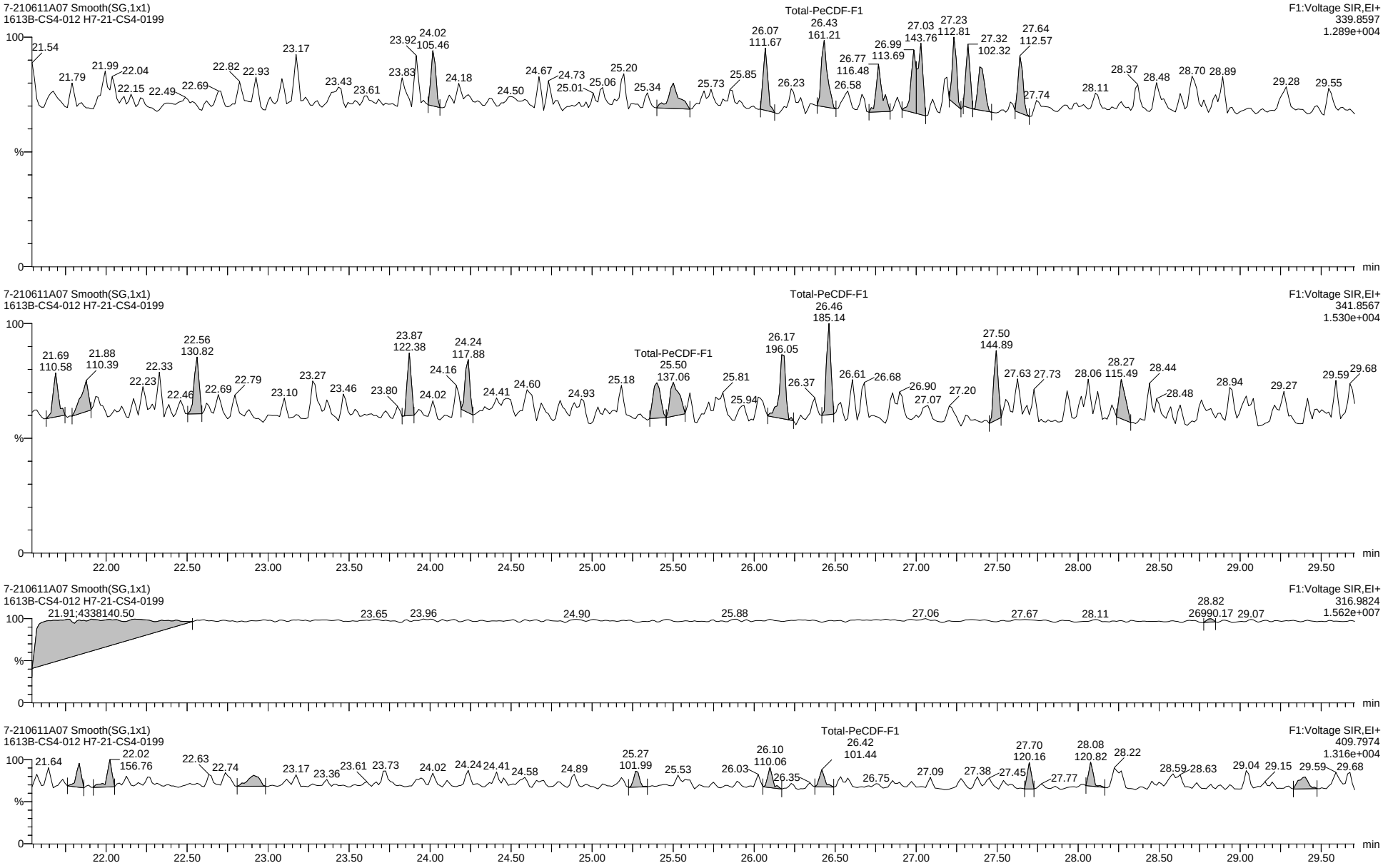

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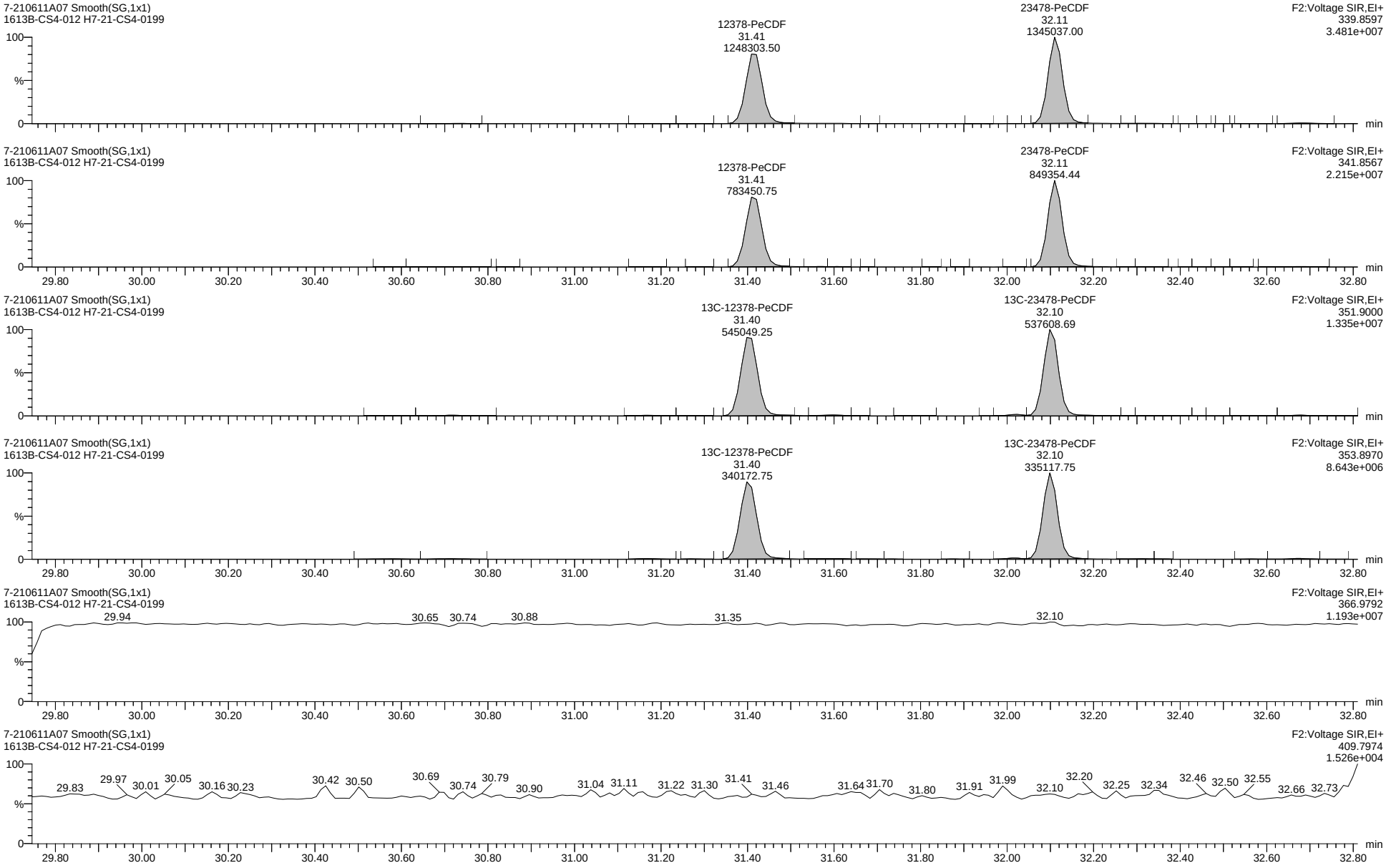

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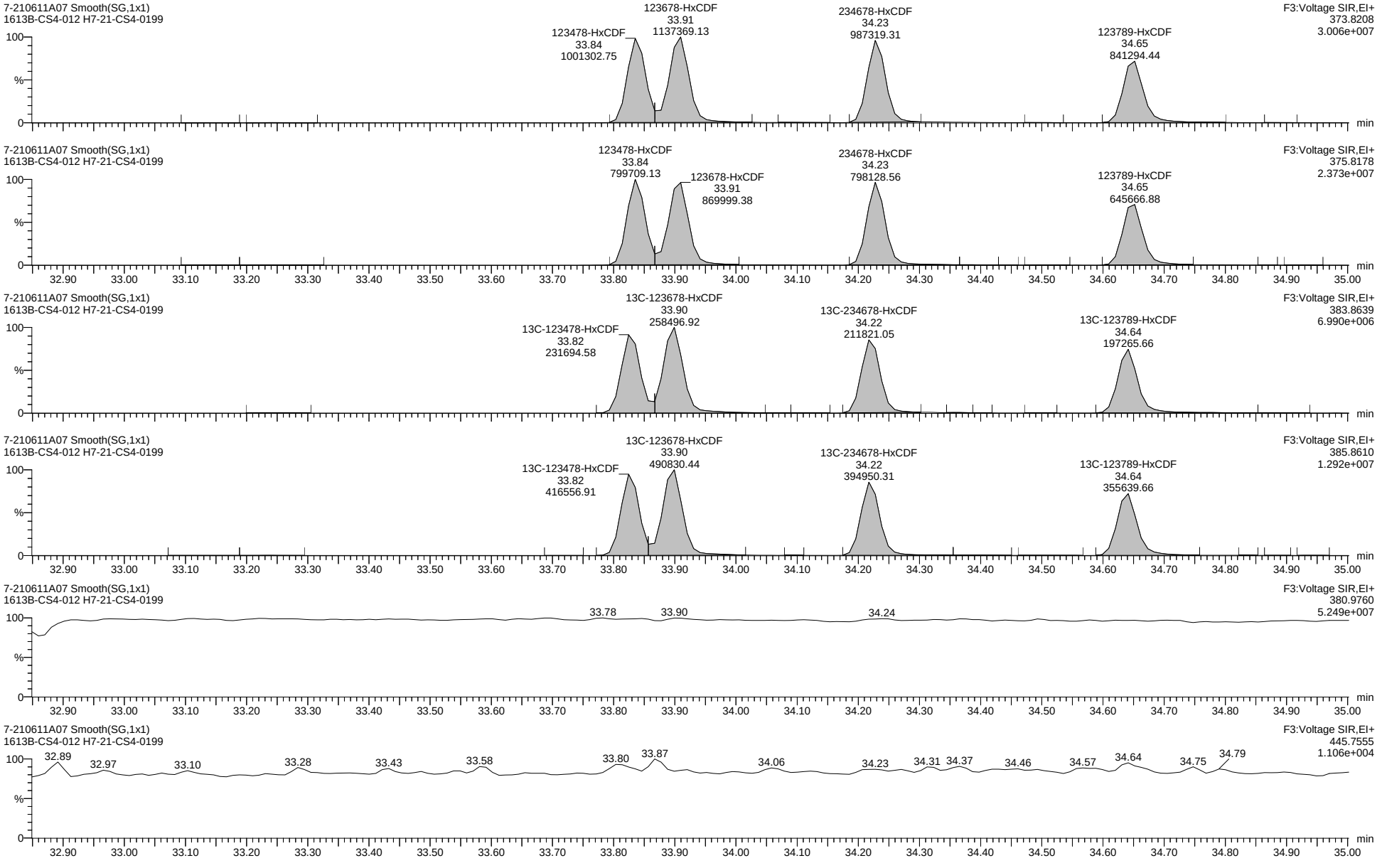

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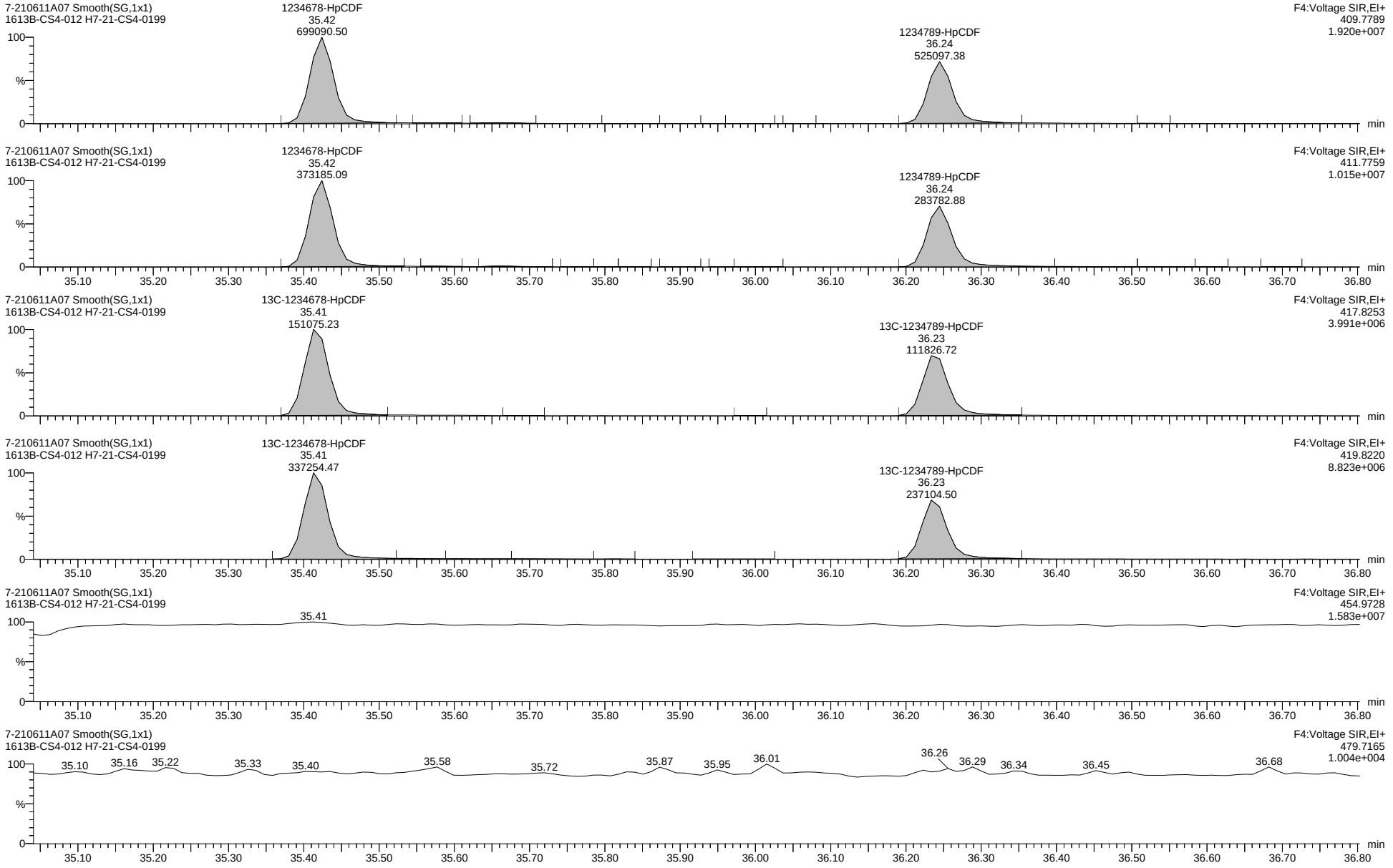

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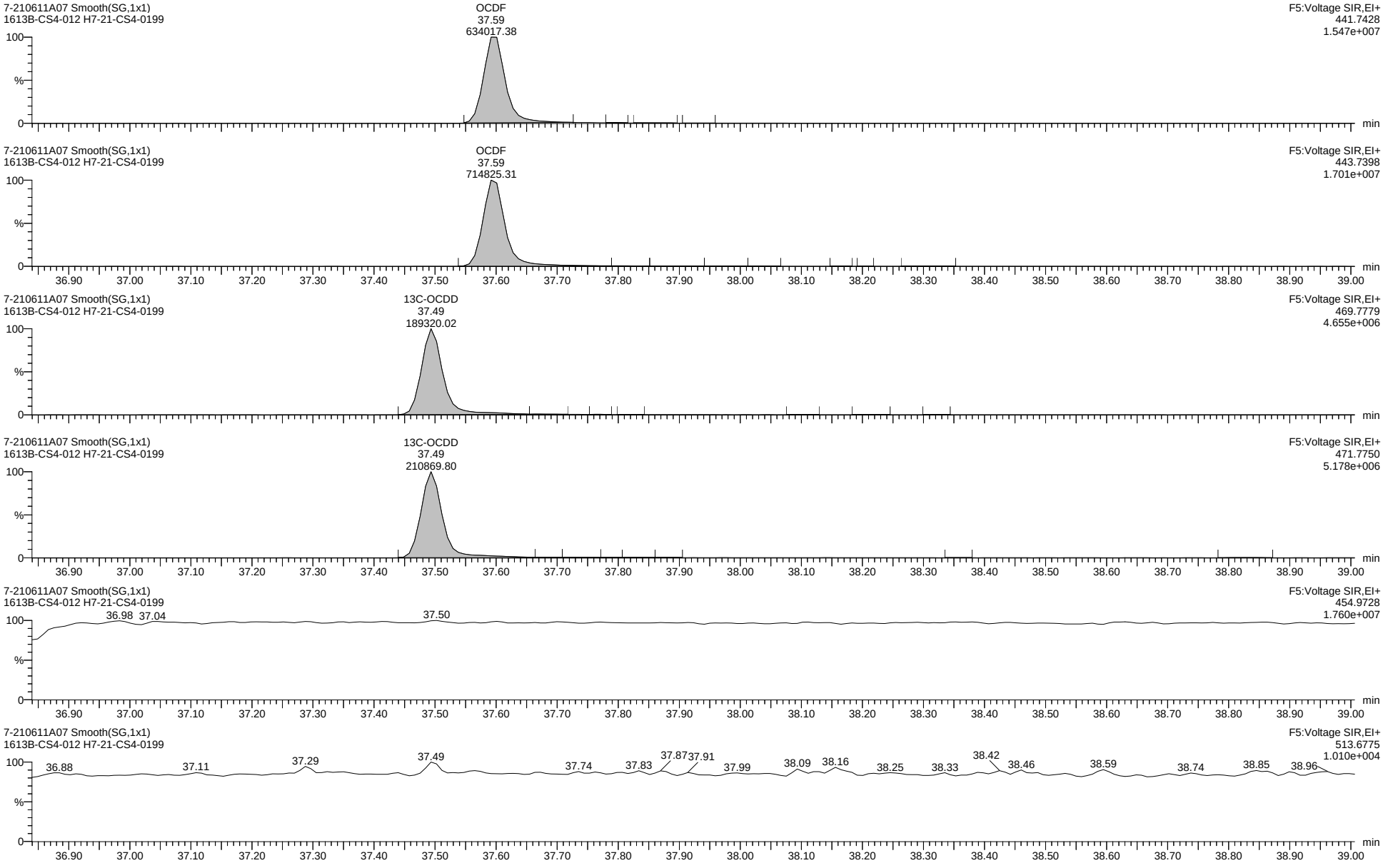

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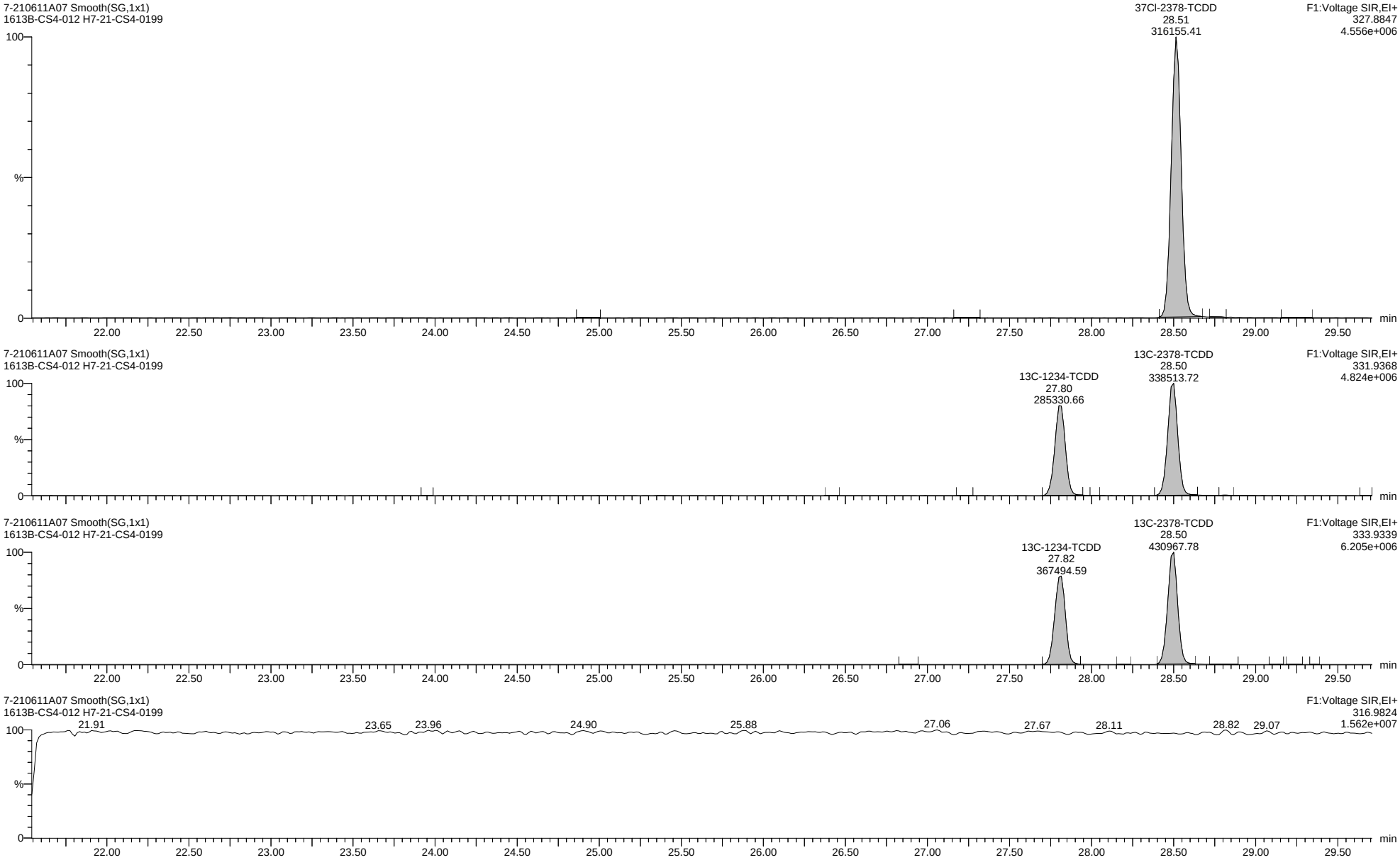
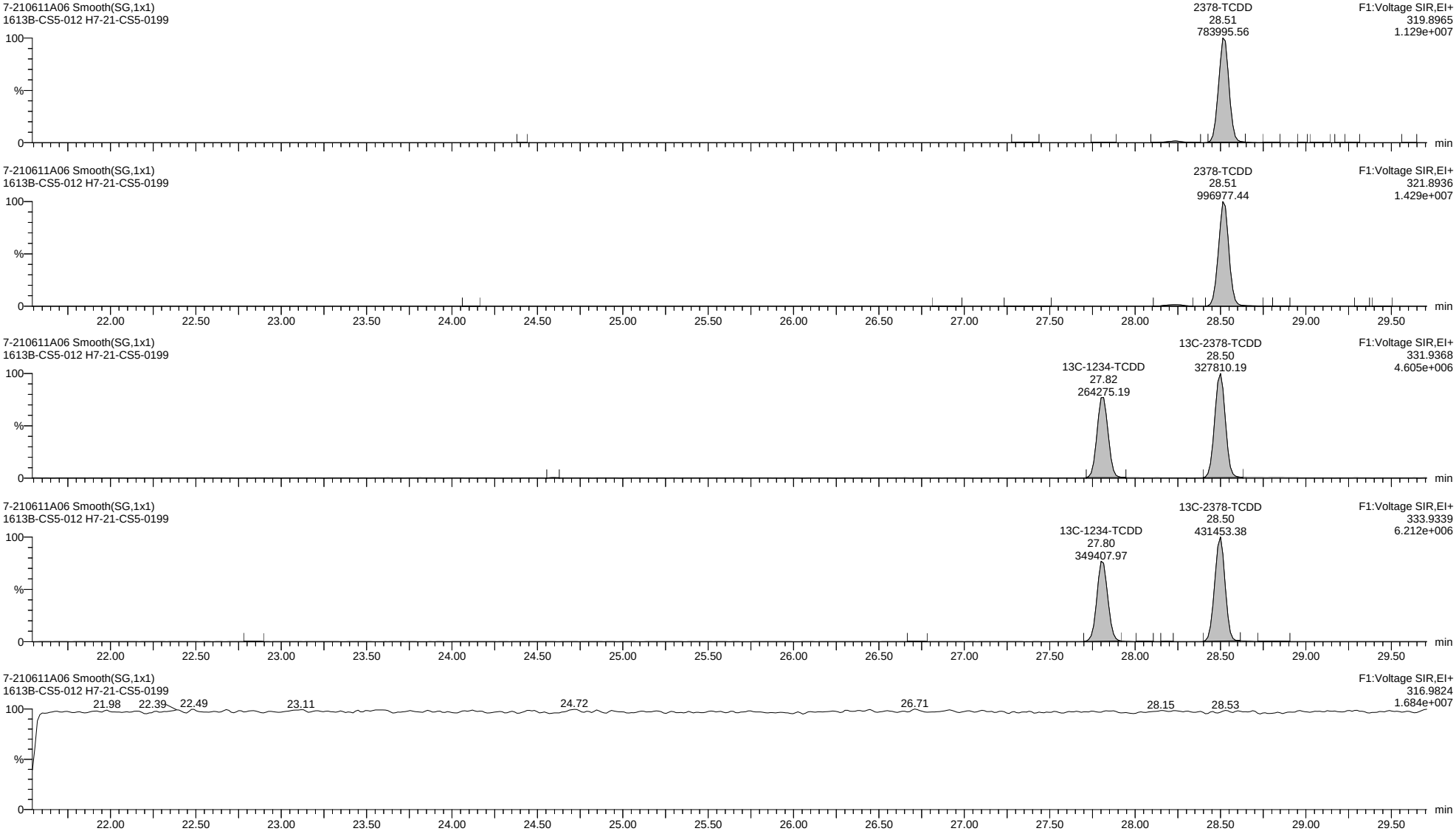
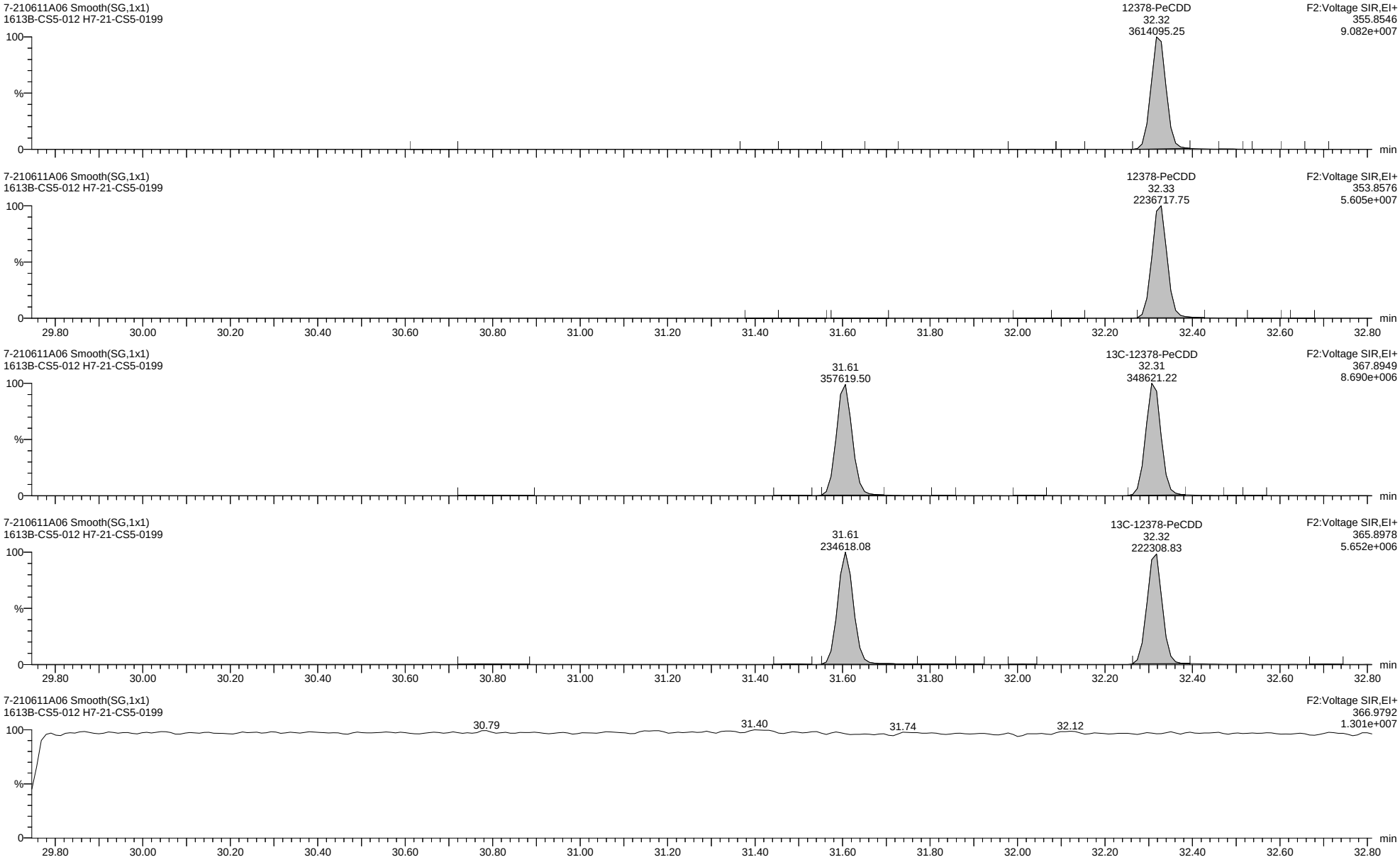


Method: C:\MassLynx\Dioxin.PRO\MethDB\Dioxin_1613B.mdb 08 Jun 2021 10:17:10
Calibration: C:\MassLynx\Dioxin.PRO\CurveDB\7-210611A-CAL5-1613.cdb 14 Jun 2021 09:35:05

Name: 7-210611A06, Date: 11-Jun-2021, Time: 16:04:38, ID: H7-21-CS5-0199, Description: 1613B-CS5-012, Vial: Tray1:8



Name: 7-210611A06, Date: 11-Jun-2021, Time: 16:04:38, ID: H7-21-CS5-0199, Description: 1613B-CS5-012, Vial: Tray1:8



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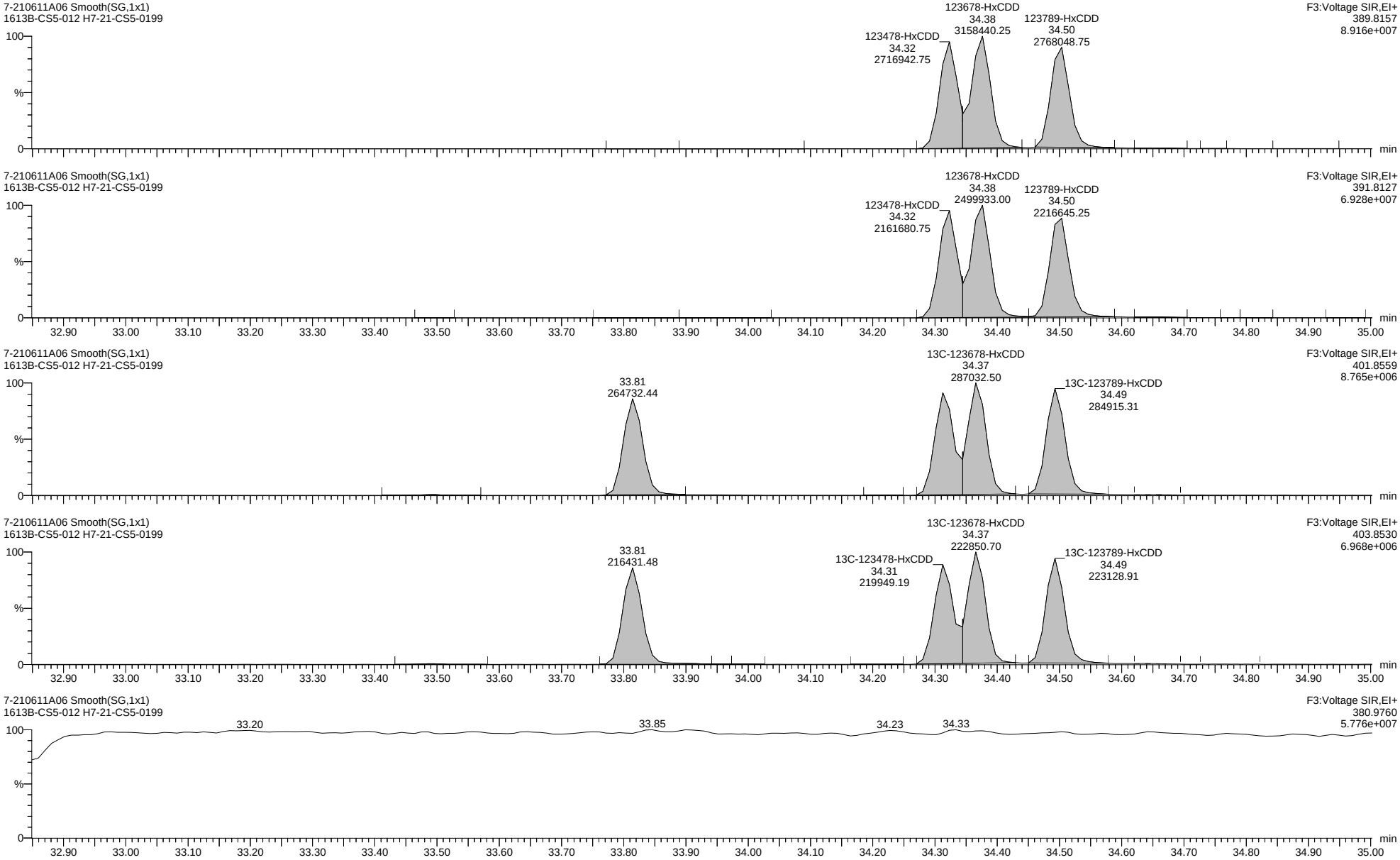

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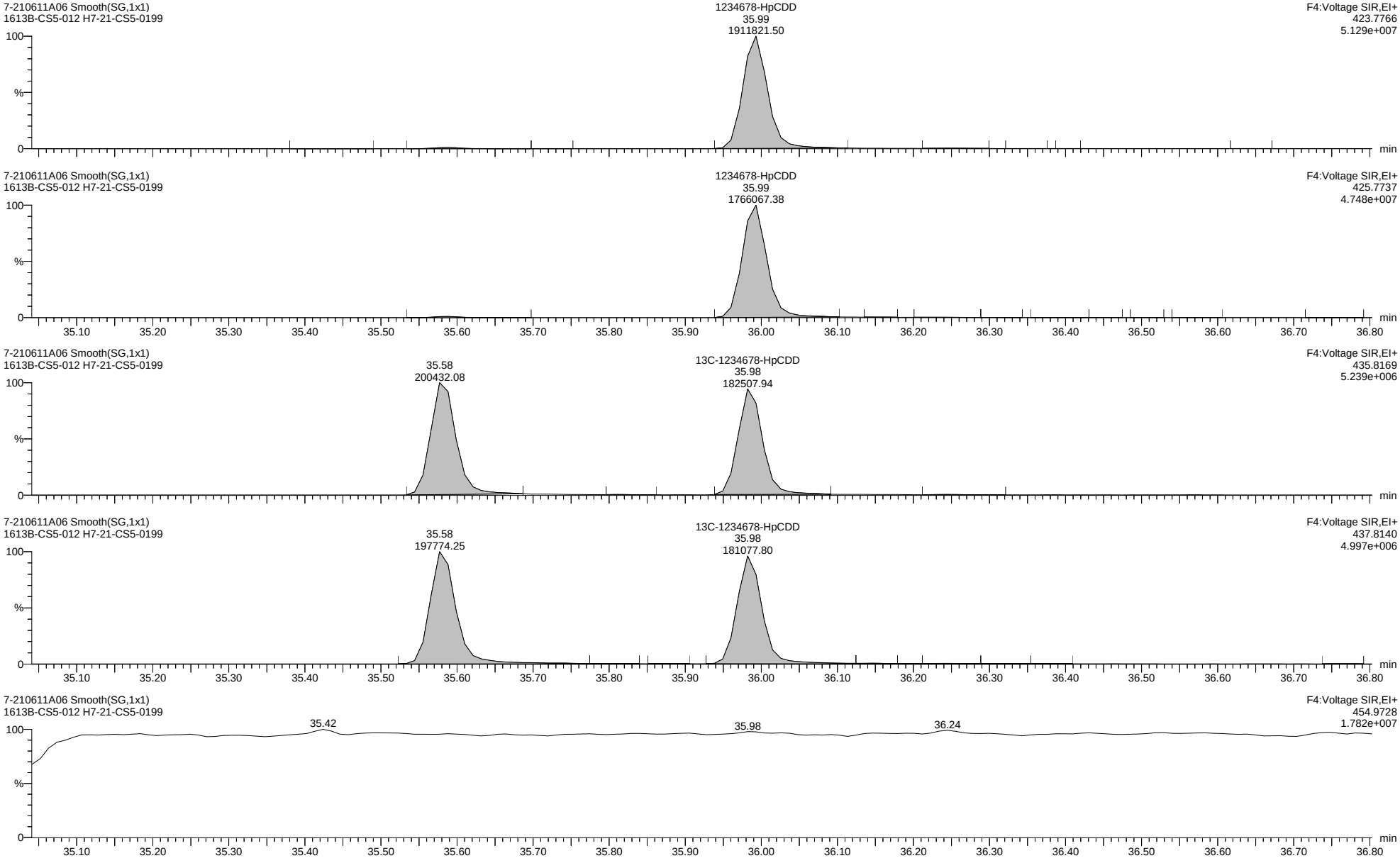
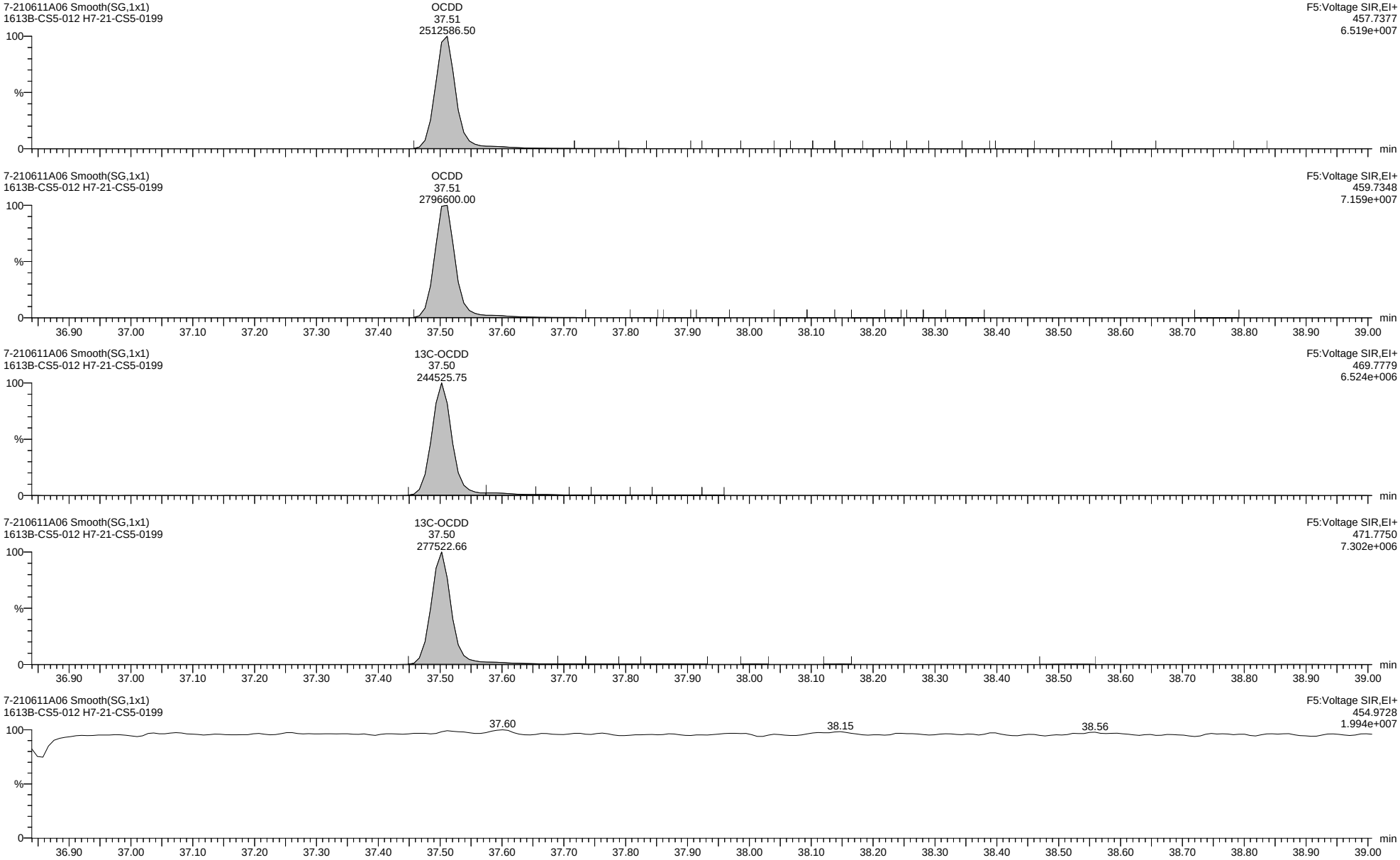


Name: 7-210611A06, Date: 11-Jun-2021, Time: 16:04:38, ID: H7-21-CS5-0199, Description: 1613B-CS5-012, Vial: Tray1:8



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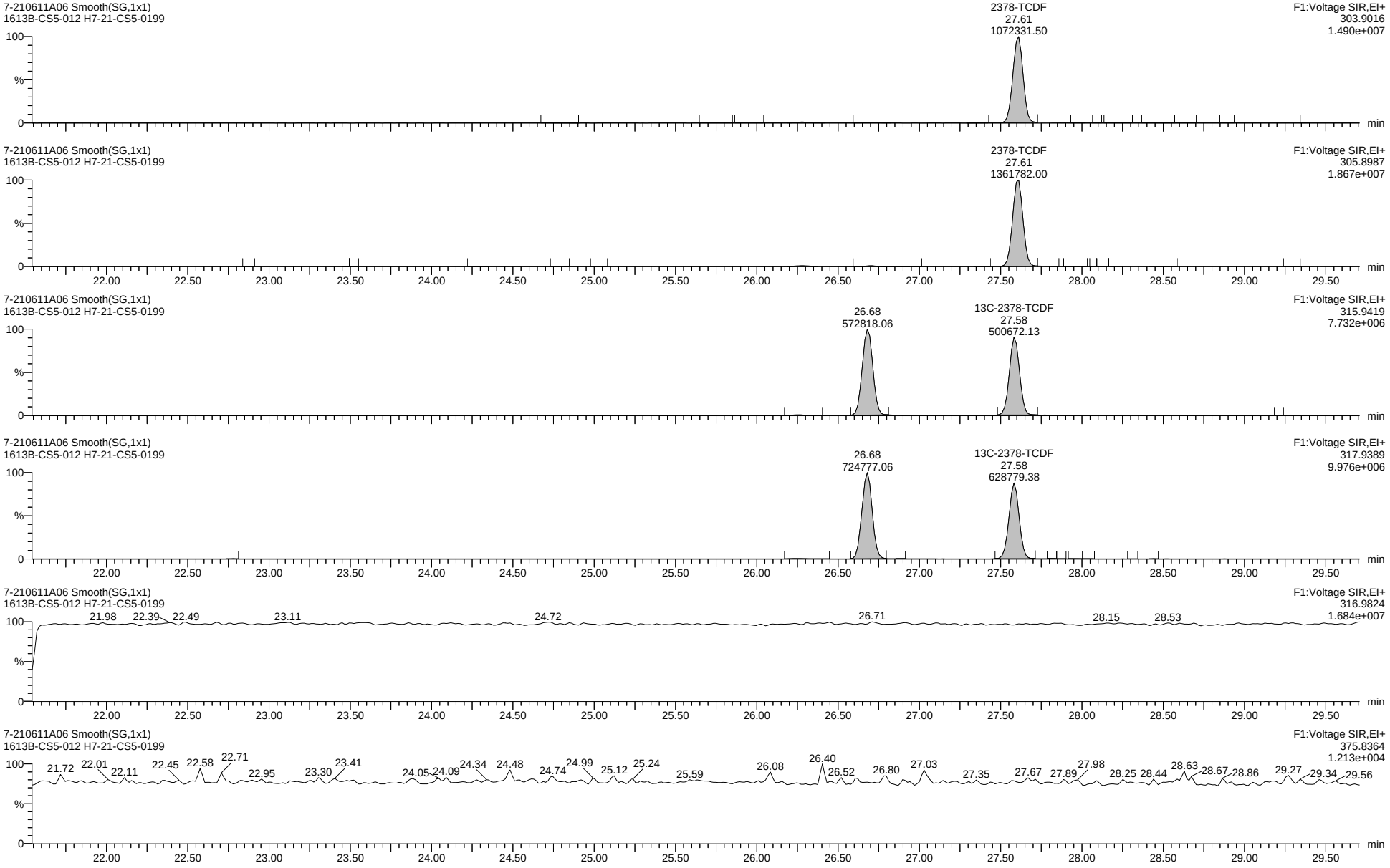

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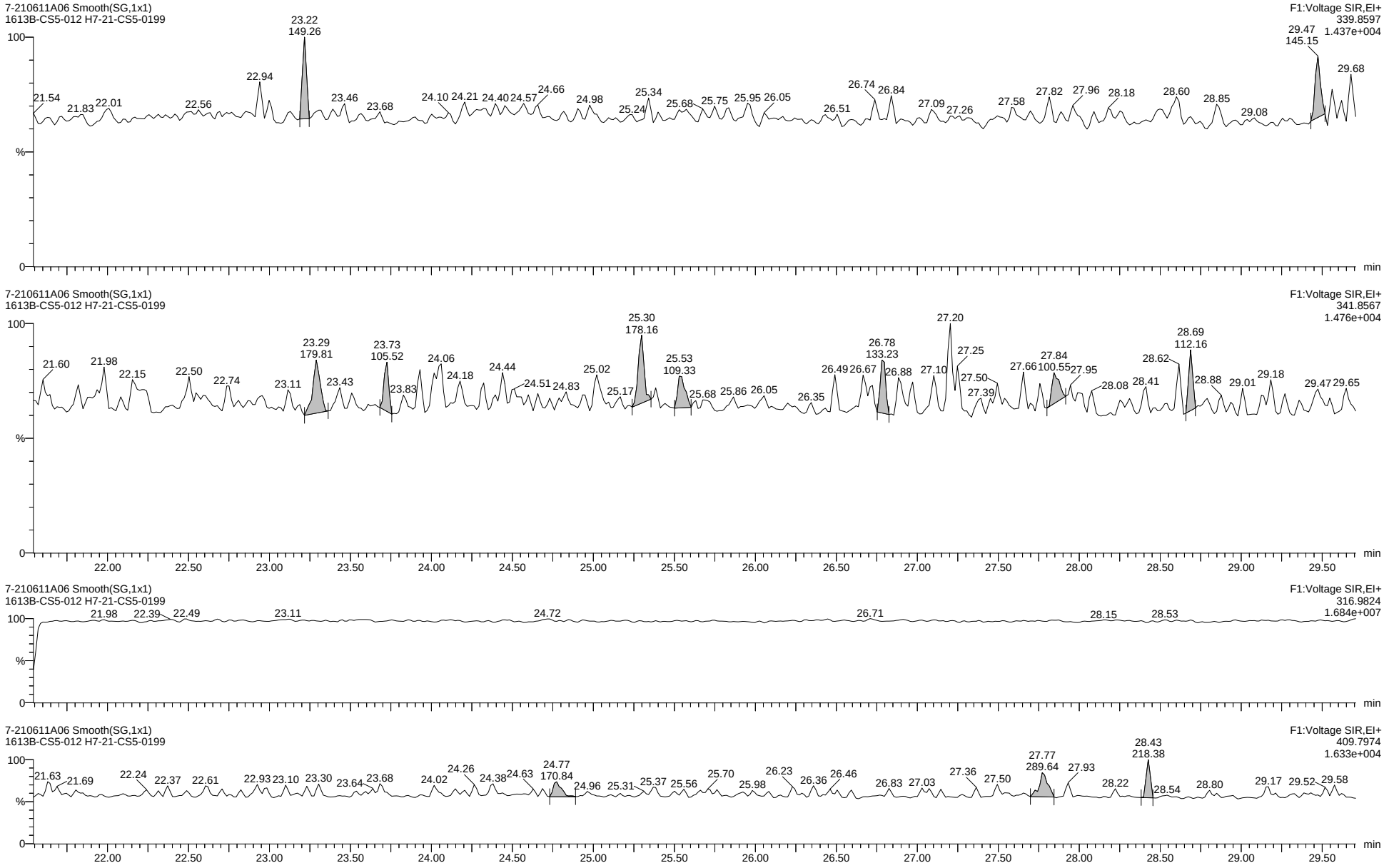
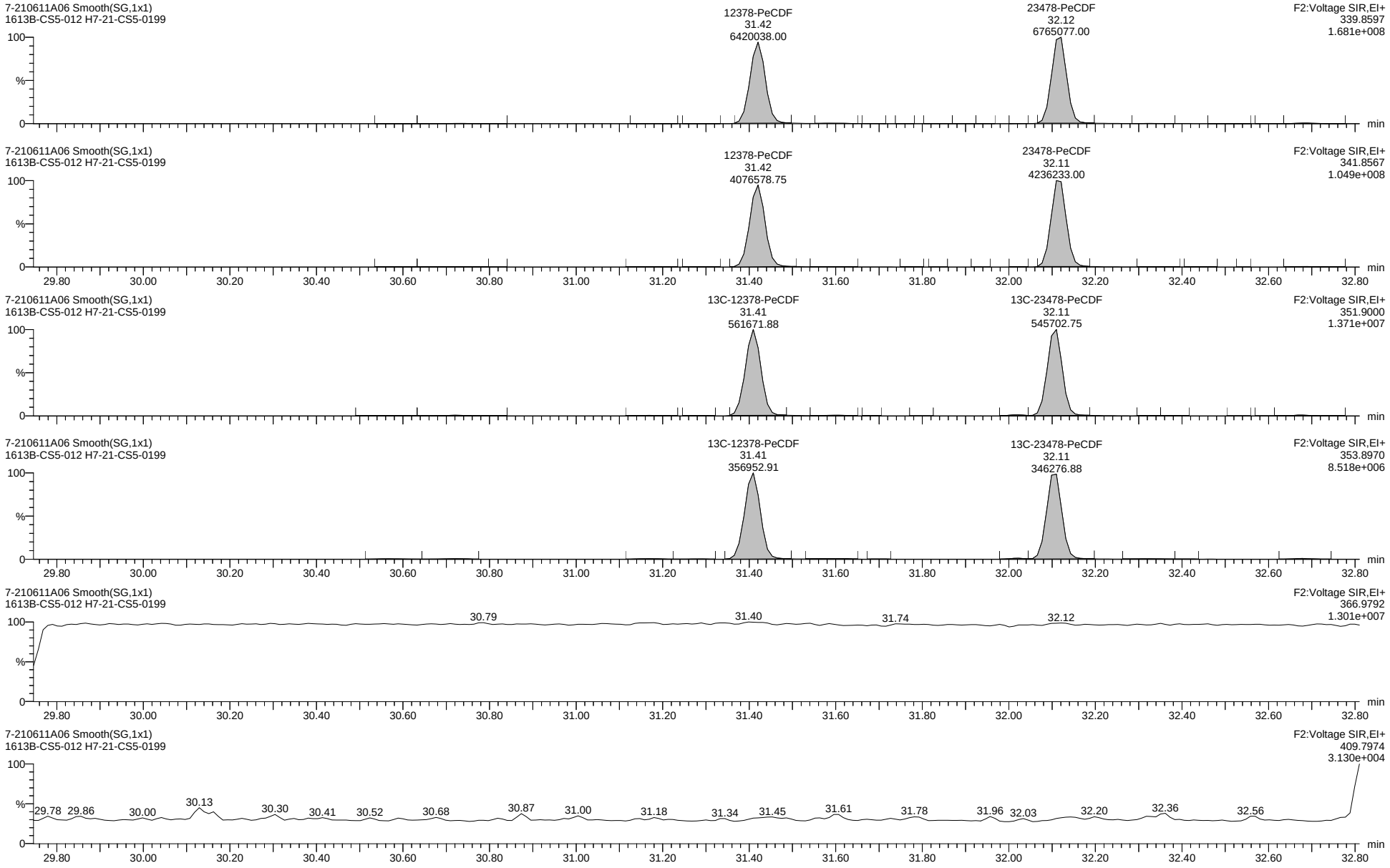


Name: 7-210611A06, Date: 11-Jun-2021, Time: 16:04:38, ID: H7-21-CS5-0199, Description: 1613B-CS5-012, Vial: Tray1:8



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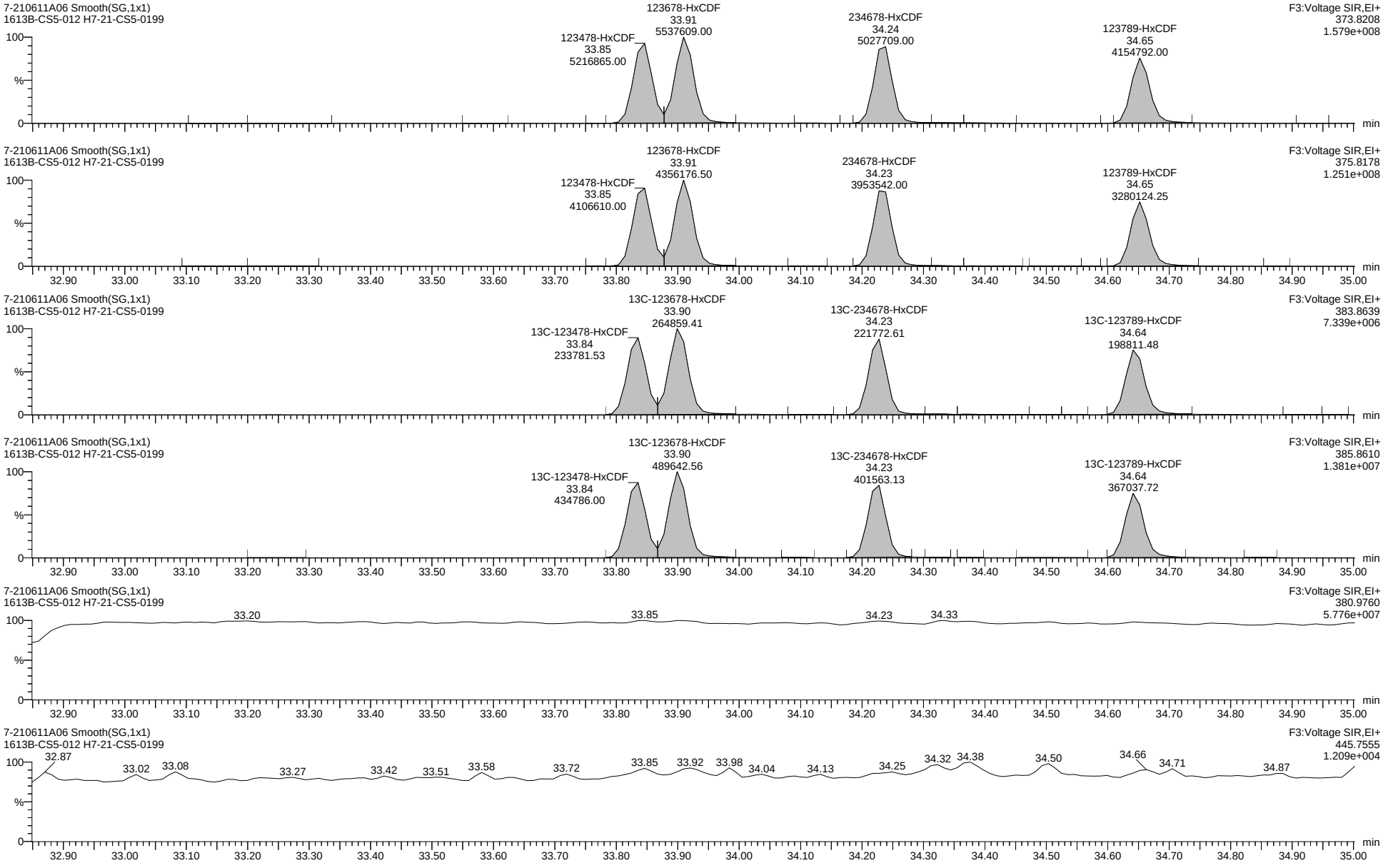
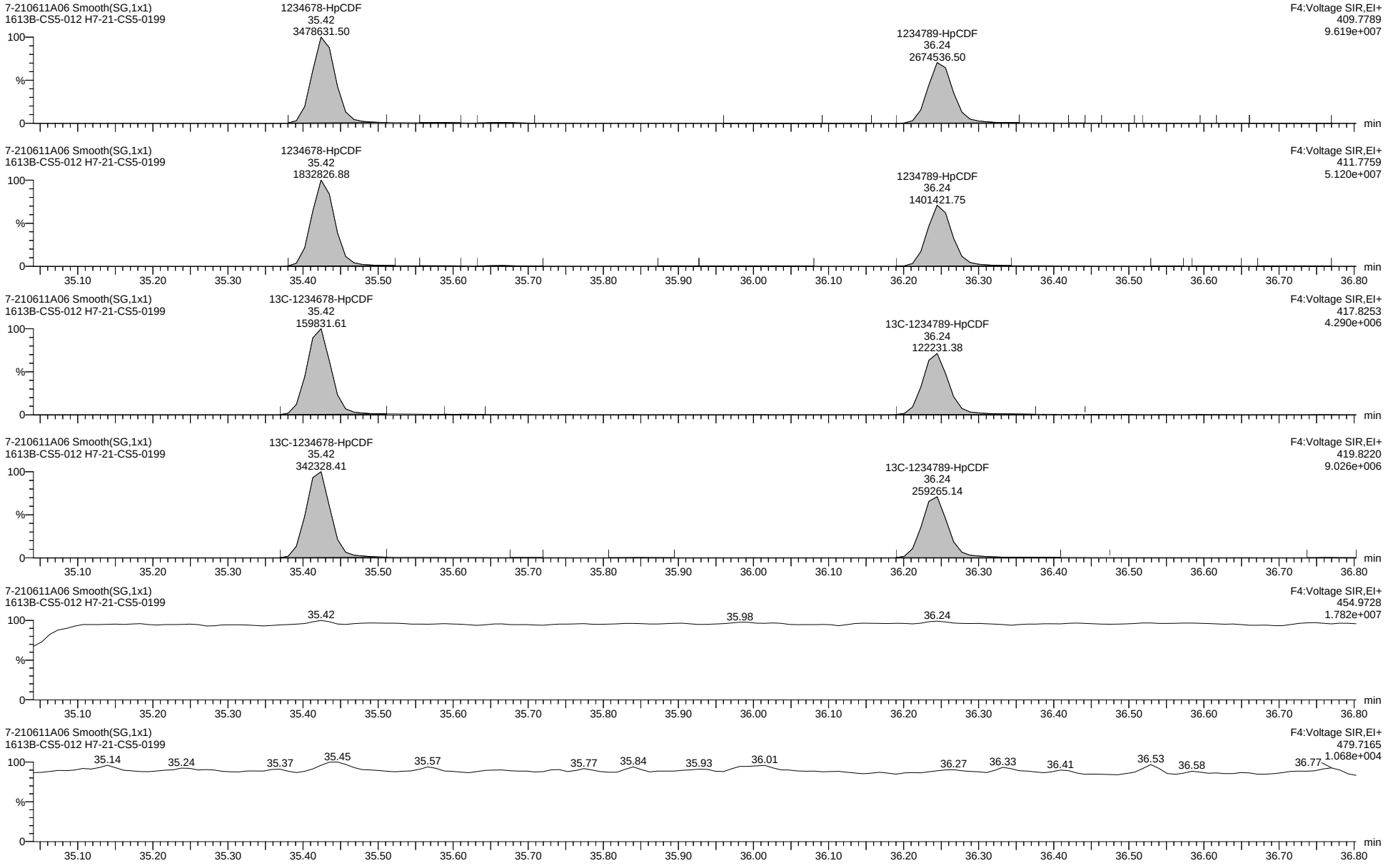


Name: 7-210611A06, Date: 11-Jun-2021, Time: 16:04:38, ID: H7-21-CS5-0199, Description: 1613B-CS5-012, Vial: Tray1:8



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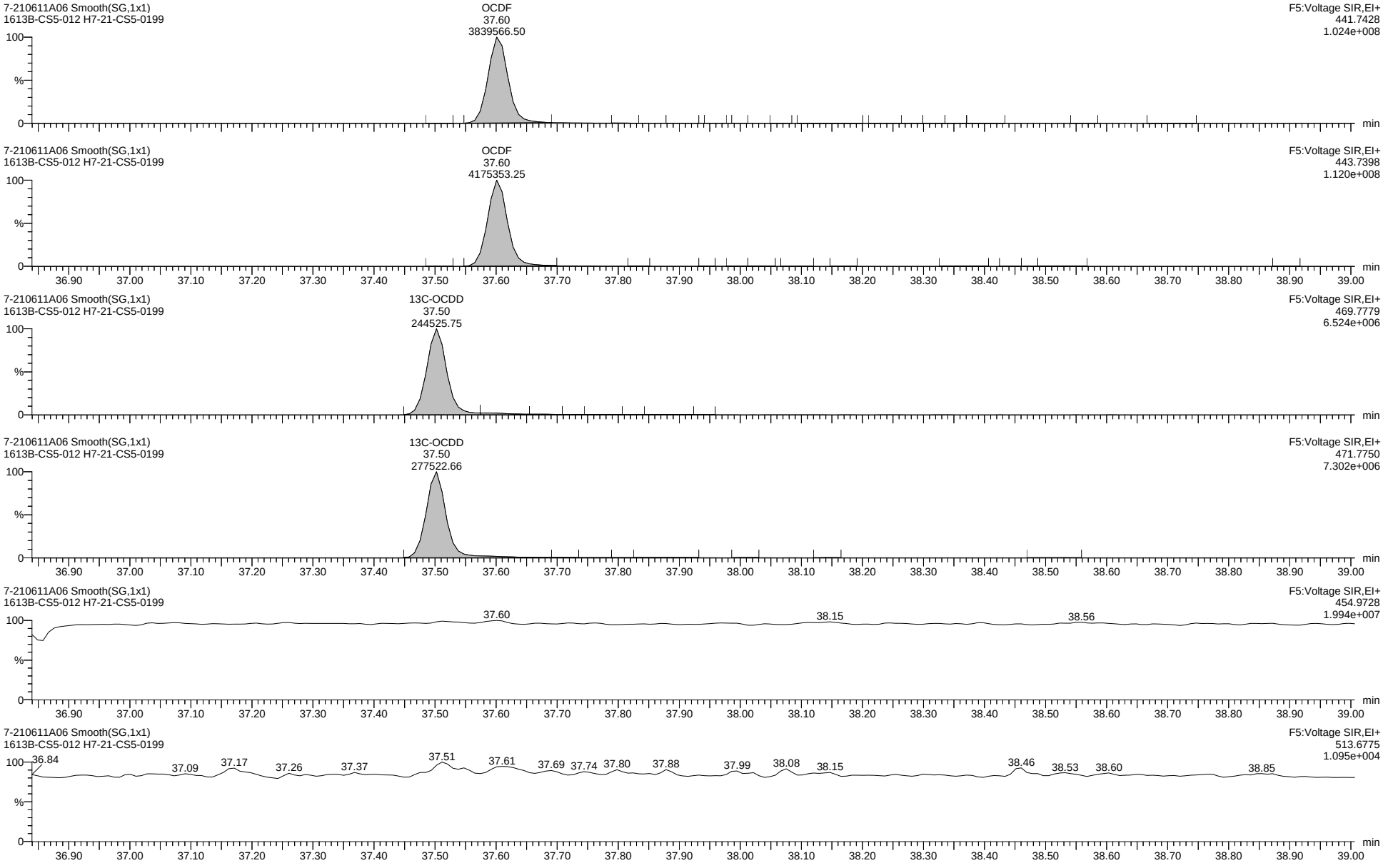
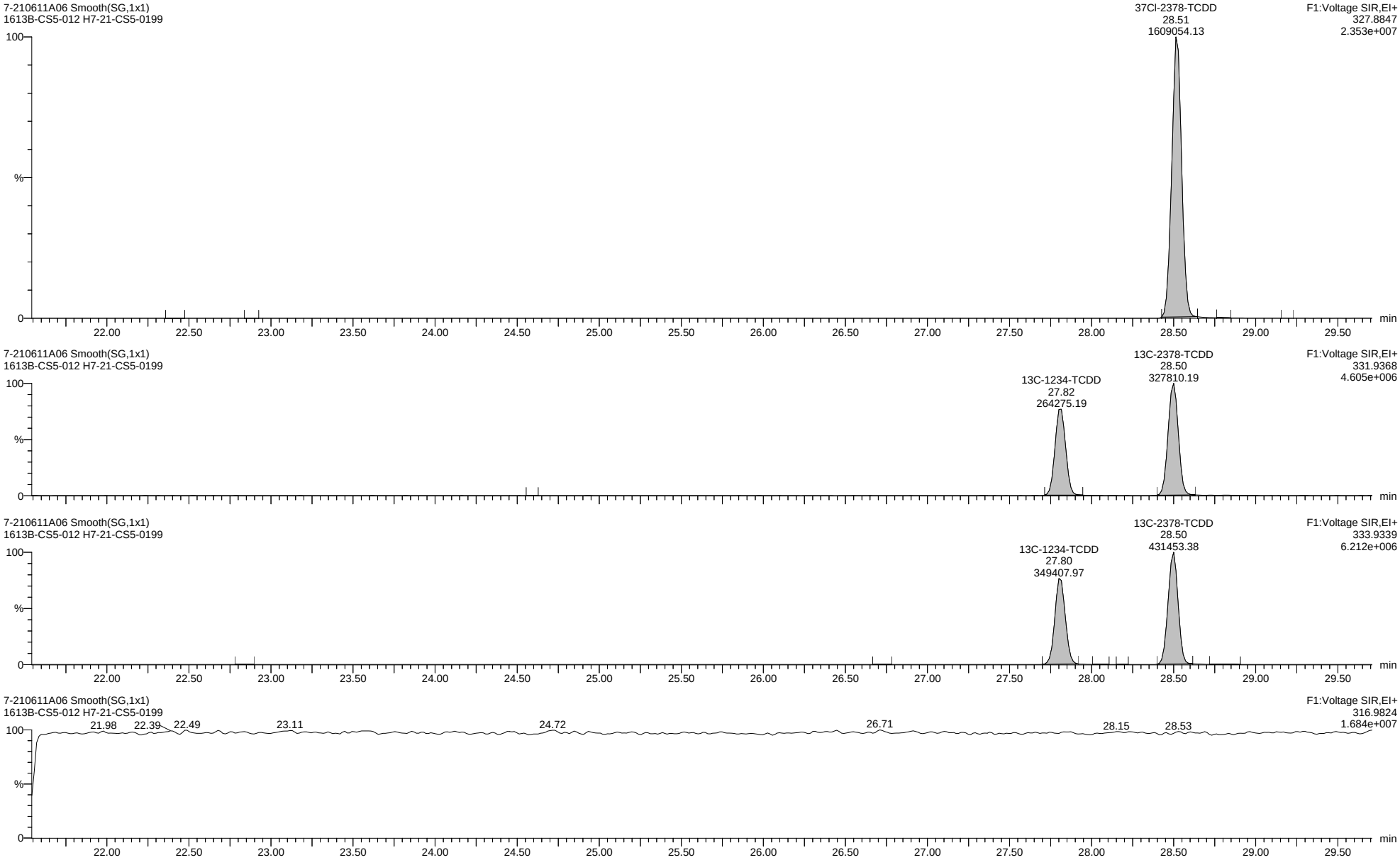


Name: 7-210611A06, Date: 11-Jun-2021, Time: 16:04:38, ID: H7-21-CS5-0199, Description: 1613B-CS5-012, Vial: Tray1:8



Quantify Sample Summary Report **MassLynx MassLynx V4.1 SCN 901**

Dataset: I:\Organics Instrument\HIGHRES GCMS Completed Results Files\HR-7\7-210611A-ICAL-1613-QC.qld

Last Altered: Monday, June 14, 2021 09:56:28 Eastern Daylight Time
Printed: Thursday, June 17, 2021 12:18:56 Eastern Daylight Time

Method: C:\MassLynx\Dioxin.PRO\MethDB\Dioxin_1613B.mdb 08 Jun 2021 10:17:10
Calibration: C:\MassLynx\Dioxin.PRO\CurveDB\7-210611A-CAL5-1613.cdb 14 Jun 2021 09:35:05

Name: 7-210611A08, Date: 11-Jun-2021, Time: 17:31:55, ID: H7-21-RS1-0199, Description: 1613B-RS1-012, Vial: Tray1:10

	Target Analyte	#Hom	Total Area	Ion1 Area	Ion2 Area	Ra	Ra Fail=YES	RT	RRT	RT LCL	RT UCL	pg	%Rec	Mod.Comment	Noise 1	Noise 2
1	2378-TCDD		70367	30902	39465	0.78	NO	28.50	1.00	28.47	28.53	9.5191363	95.2		1421	799
2	12378-PeCDD		238510	147854	90656	1.63	NO	32.31	1.00	32.27	32.34	54.591903	109.2		813	915
3	123478-HxCDD		185435	104576	80859	1.29	NO	34.31	1.00	34.28	34.35	49.890690	99.8		2455	1221
4	123678-HxCDD		220242	127733	92508	1.38	NO	34.37	1.00	34.33	34.40	53.877883	107.8		2455	1221
5	123789-HxCDD		209044	121779	87264	1.40	NO	34.49	1.00	34.46	34.53	54.956229	109.9		2455	1221
6	1234678-HpCDD		165886	86861	79025	1.10	NO	35.98	1.00	35.95	36.02	51.979171	104.0		1449	3883
7	OCDD		210829	102524	108305	0.95	NO	37.49	1.00	37.46	37.53	104.02160	104.0		2539	3530
8	2378-TCDF		106335	47271	59064	0.80	NO	27.60	1.00	27.56	27.63	10.375414	103.8		1026	1471
9	12378-PeCDF		422838	258428	164410	1.57	NO	31.41	1.00	31.38	31.44	51.625787	103.3		2542	3158
10	23478-PeCDF		409936	251104	158832	1.58	NO	32.11	1.00	32.08	32.14	49.065746	98.1		2542	3158
11	123478-HxCDF		375497	210217	165280	1.27	NO	33.84	1.00	33.80	33.87	50.578406	101.2		4811	2132
12	123678-HxCDF		399231	226723	172508	1.31	NO	33.90	1.00	33.87	33.93	50.609406	101.2		4811	2132
13	234678-HxCDF		358215	202483	155733	1.30	NO	34.23	1.00	34.19	34.26	49.480198	99.0		4811	2132
14	123789-HxCDF		325306	183477	141829	1.29	NO	34.64	1.00	34.61	34.67	55.545722	111.1		4811	2132
15	1234678-HpCDF		229987	149619	80368	1.86	NO	35.41	1.00	35.38	35.45	50.110523	100.2		6187	1696
16	1234789-HpCDF		183946	119990	63956	1.88	NO	36.23	1.00	36.20	36.27	50.902617	101.8		6187	1696
17	OCDF		325404	159283	166121	0.96	NO	37.59	1.00	37.56	37.63	114.03344	114.0		3512	4947
18	13C-2378-TCDD		636675	275172	361502	0.76	NO	28.48	1.02	28.45	28.52	97.387889	97.4		2338	1502
19	13C-12378-PeCDD		440690	267207	173483	1.54	NO	32.30	1.16	32.26	32.33	93.909324	93.9		1916	1949
20	13C-123478-HxCDD		357990	209227	148763	1.41	NO	34.30	0.99	34.27	34.34	94.753462	94.8		3184	2493
21	13C-123678-HxCDD		398982	217807	181175	1.20	NO	34.35	1.00	34.32	34.39	100.81200	100.8		3184	2493
22	13C-1234678-HpCDD		306805	155407	151398	1.03	NO	35.97	1.04	35.94	36.00	104.69429	104.7		3472	3342
23	13C-OCDD		378950	179645	199305	0.90	NO	37.48	1.09	37.45	37.52	190.04016	95.0		2296	2586
24	13C-2378-TCDF		970042	419283	550759	0.76	NO	27.58	0.99	27.55	27.62	99.374099	99.4		5116	3105
25	13C-12378-PeCDF		743079	456908	286170	1.60	NO	31.40	1.13	31.37	31.43	96.667094	96.7		1701	1200
26	13C-23478-PeCDF		685581	420612	264969	1.59	NO	32.10	1.15	32.07	32.13	93.877184	93.9		1701	1200
27	13C-123478-HxCDF		558885	194284	364601	0.53	NO	33.82	0.98	33.79	33.86	104.89176	104.9		2349	4963
28	13C-123678-HxCDF		605570	213033	392537	0.54	NO	33.89	0.98	33.85	33.92	103.27568	103.3		2349	4963
29	13C-234678-HxCDF		510681	182561	328120	0.56	NO	34.22	0.99	34.18	34.25	102.99540	103.0		2349	4963
30	13C-123789-HxCDF		449399	158090	291309	0.54	NO	34.63	1.00	34.60	34.66	100.48356	100.5		2349	4963
31	13C-1234678-HpCDF		427091	133736	293355	0.46	NO	35.41	1.03	35.38	35.45	104.62335	104.6		3318	5237
32	13C-1234789-HpCDF		326643	105046	221597	0.47	NO	36.23	1.05	36.20	36.27	105.83900	105.8		3318	5237
33	13C-1234-TCDD		555653	244189	311464	0.78	NO	27.80	0.00	27.77	27.83	69.886233	69.9		2338	1502
34	13C-123789-HxCDD		407713	231010	176703	1.31	NO	34.48	0.00	34.45	34.52	64.760055	64.8		3184	2493

Quantify Sample Summary Report **MassLynx MassLynx V4.1 SCN 901**

Dataset: I:\Organics Instrument\HIGHRES GCMS Completed Results Files\HR-7\7-210611A-ICAL-1613-QC.qld

Last Altered: Monday, June 14, 2021 09:56:28 Eastern Daylight Time
Printed: Thursday, June 17, 2021 12:18:56 Eastern Daylight Time

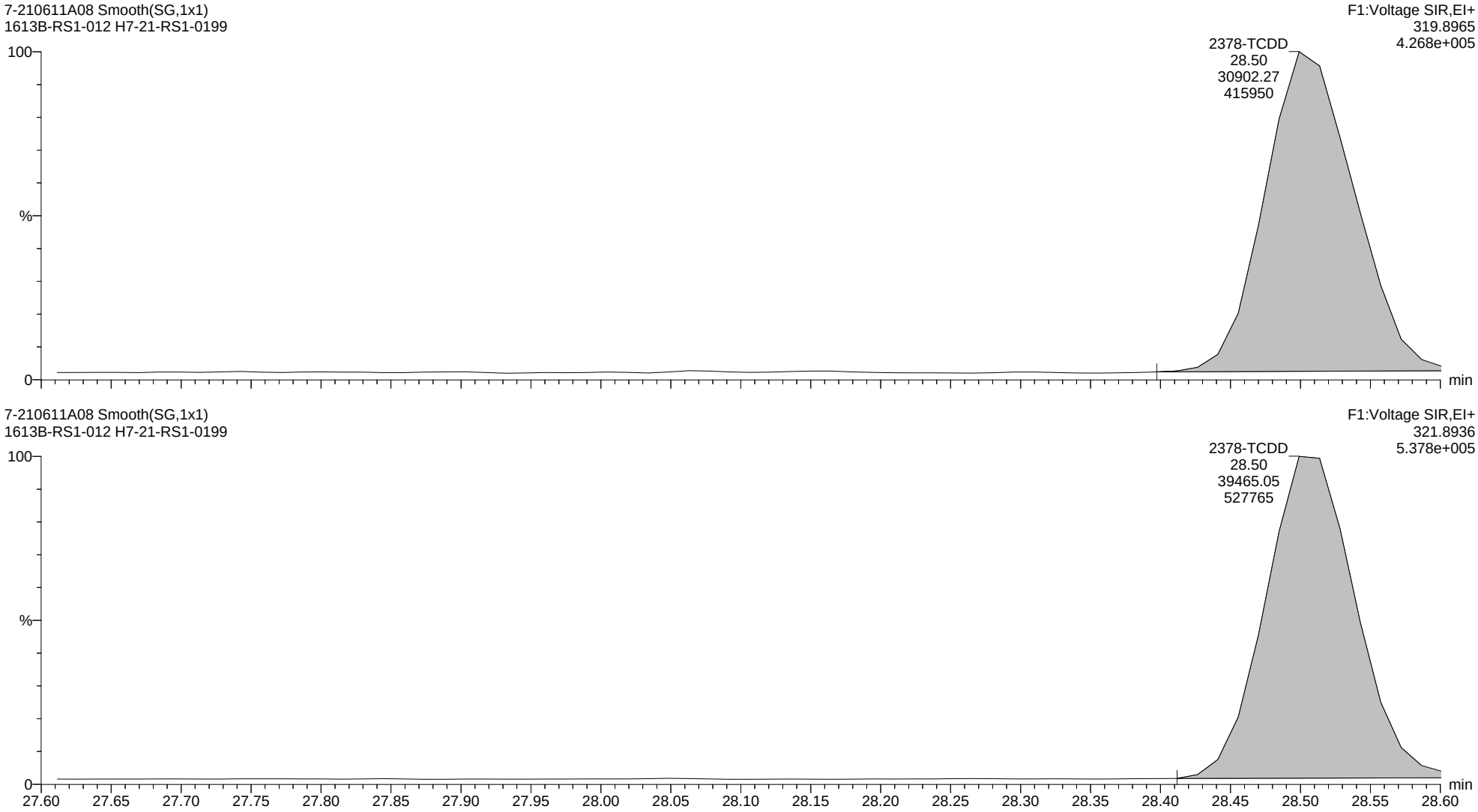
Name: 7-210611A08, Date: 11-Jun-2021, Time: 17:31:55, ID: H7-21-RS1-0199, Description: 1613B-RS1-012, Vial: Tray1:10

	Target Analyte	#Hom	Total Area	Ion1 Area	Ion2 Area	Ra	Ra Fail=YES	RT	RRT	RT LCL	RT UCL	pg	%Rec	Mod.Comment	Noise 1	Noise 2
35	37Cl-2378-TCDD		76071	76071				28.51	1.00	28.48	28.55	11.415127	114.2		1022	
36	Total-Tetradioxins	1		30902								9.5191363			1421	
37	Total-Pentadioxins	1		147854								54.591903			813	
38	Total-Hexadioxins	3		354089								158.72480			2455	
39	Total-Heptadioxins	2		87653								52.481629			1449	
40	Total-OCDD	1		102524								104.02160			2539	
41	Total-Tetrafurans	1		47271								10.375414			1026	
42	Total-PeCDF-F1			0											1023	
43	Total-Pentafurans	3		511453								101.08356			2542	
44	Total-Hexafurans	5		823584								206.38879			4811	
45	Total-Heptafurans	2		269609								101.01314			6187	
46	Totals-OCDF	1		159283								114.03344			3512	
47	Totals-37Cl-2378-TCDD	3		76319								11.452207			1022	

Method: C:\MassLynx\Dioxin.PRO\MethDB\Dioxin_1613B.mdb 08 Jun 2021 10:17:10
Calibration: C:\MassLynx\Dioxin.PRO\CurveDB\7-210611A-CAL5-1613.cdb 14 Jun 2021 09:35:05

Name: 7-210611A08, Date: 11-Jun-2021, Time: 17:31:55, ID: H7-21-RS1-0199, Description: 1613B-RS1-012, Vial: Tray1:10

2378-TCDD



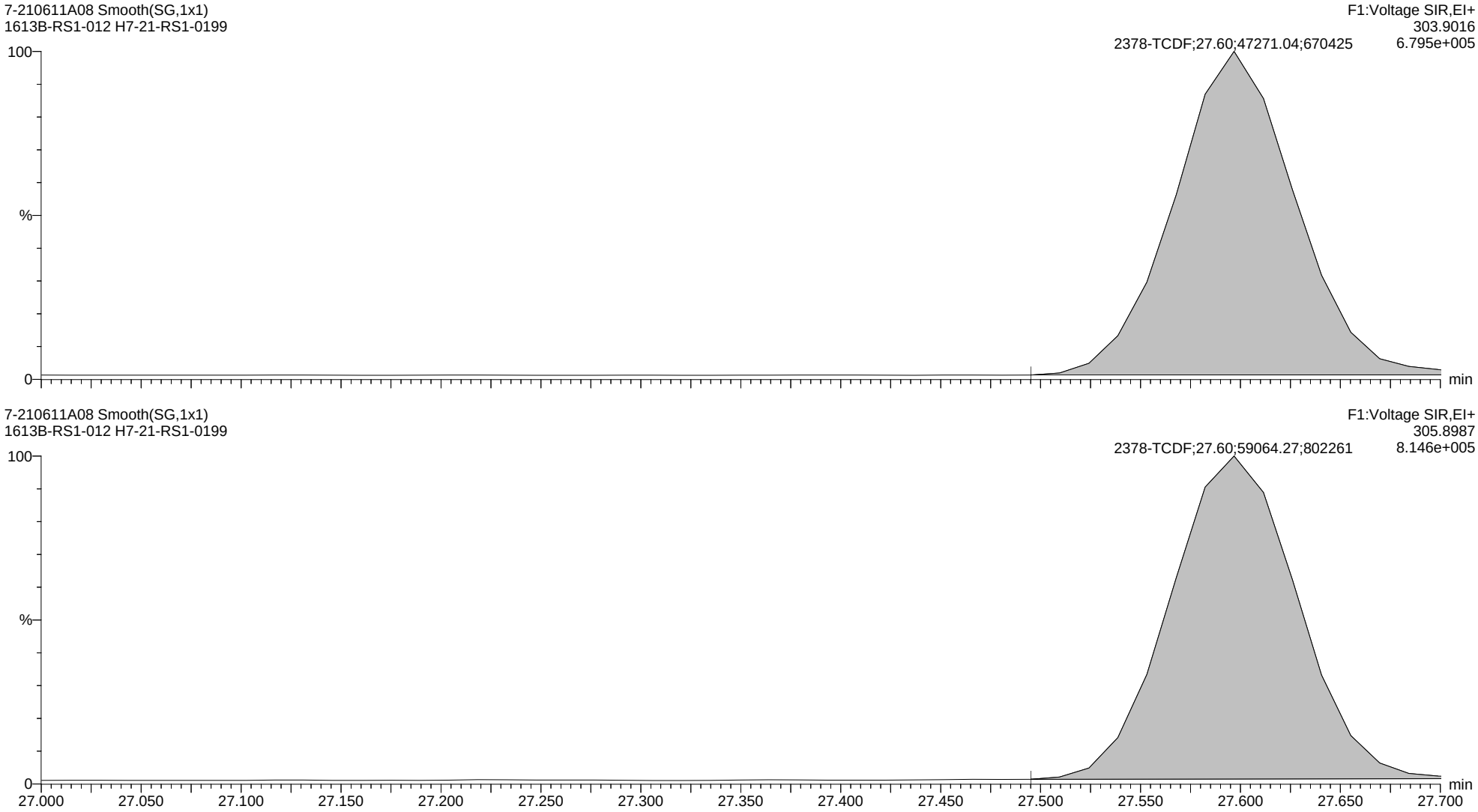
Quantify Sample Report **MassLynx MassLynx V4.1 SCN 901**

Dataset: I:\Organics Instrument\HIGHRES GCMS Completed Results Files\HR-7\7-210611A-ICAL-1613-QC.qld

Last Altered: Monday, June 14, 2021 09:56:28 Eastern Daylight Time
Printed: Thursday, June 17, 2021 12:18:56 Eastern Daylight Time

Name: 7-210611A08, Date: 11-Jun-2021, Time: 17:31:55, ID: H7-21-RS1-0199, Description: 1613B-RS1-012, Vial: Tray1:10

2378-TCDF



Quantify Audit Report MassLynx MassLynx V4.1 SCN 901

Dataset: I:\Organics Instrument\HIGHRES GCMS Completed Results Files\HR-7\7-210611A-ICAL-1613-QC.qld

Last Altered: Monday, June 14, 2021 09:56:28 Eastern Daylight Time
Printed: Thursday, June 17, 2021 12:18:56 Eastern Daylight Time

Date	Time	Event	Details	Comments
14-Jun-21	09:37:49	Process Extract		
14-Jun-21	09:37:49	Process Integrate		
14-Jun-21	09:37:49	Process Quantify		
14-Jun-21	09:37:50	Dataset Created		
14-Jun-21	09:38:20	Pre modification peak	Sample:7-210611A04, Compound:TD, RT:28.499	
14-Jun-21	09:38:20	Peak modified	Sample:7-210611A04, Compound:TD, RT:28.499	NA210614MB
14-Jun-21	09:38:41	Pre modification peak	Sample:7-210611A04, Compound:PD, RT:32.318	
14-Jun-21	09:38:41	Peak modified	Sample:7-210611A04, Compound:PD, RT:32.318	NA210614MB
14-Jun-21	09:38:56	Pre modification peak	Sample:7-210611A04, Compound:HXD, RT:34.366	
14-Jun-21	09:38:56	Peak modified	Sample:7-210611A04, Compound:HXD, RT:34.366	NA210614MB
14-Jun-21	09:39:06	Pre modification peak	Sample:7-210611A04, Compound:HXD, RT:34.493	
14-Jun-21	09:39:06	Peak modified	Sample:7-210611A04, Compound:HXD, RT:34.493	NA210614MB
14-Jun-21	09:39:18	Pre modification peak	Sample:7-210611A04, Compound:OCD, RT:37.493	
14-Jun-21	09:39:18	Peak modified	Sample:7-210611A04, Compound:OCD, RT:37.493	NA210614MB
14-Jun-21	09:39:27	Pre modification peak	Sample:7-210611A04, Compound:TF, RT:27.597	
14-Jun-21	09:39:27	Peak modified	Sample:7-210611A04, Compound:TF, RT:27.597	NA210614MB
14-Jun-21	09:39:38	Pre modification peak	Sample:7-210611A04, Compound:PF-f2, RT:31.420	
14-Jun-21	09:39:38	Peak modified	Sample:7-210611A04, Compound:PF-f2, RT:31.420	NA210614MB
14-Jun-21	09:49:14	Pre modification peak	Sample:7-210611A04, Compound:HXF, RT:33.910	
14-Jun-21	09:49:14	Peak modified	Sample:7-210611A04, Compound:HXF, RT:33.910	NA210614MB
14-Jun-21	09:49:14	Pre modification peak	Sample:7-210611A04, Compound:HXF, RT:33.835	
14-Jun-21	09:49:14	Peak modified	Sample:7-210611A04, Compound:HXF, RT:33.835	NA210614MB
14-Jun-21	09:49:33	Pre modification peak	Sample:7-210611A04, Compound:HXF, RT:34.228	
14-Jun-21	09:49:33	Peak modified	Sample:7-210611A04, Compound:HXF, RT:34.228	NA210614MB
14-Jun-21	09:49:47	Pre modification peak	Sample:7-210611A04, Compound:HPF, RT:35.424	
14-Jun-21	09:49:47	Peak modified	Sample:7-210611A04, Compound:HPF, RT:35.424	NA210614MB
14-Jun-21	09:49:59	Pre modification peak	Sample:7-210611A04, Compound:OCF, RT:37.601	
14-Jun-21	09:49:59	Peak modified	Sample:7-210611A04, Compound:OCF, RT:37.601	NA210614MB
14-Jun-21	09:50:15	Pre modification peak	Sample:7-210611A05, Compound:OCF, RT:37.601	
14-Jun-21	09:50:15	Peak modified	Sample:7-210611A05, Compound:OCF, RT:37.601	NA210614MB
14-Jun-21	09:50:34	Pre modification peak	Sample:7-210611A05, Compound:HPF, RT:36.245	
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14-Jun-21	09:50:50	Pre modification peak	Sample:7-210611A05, Compound:HXF, RT:33.910	
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14-Jun-21	09:50:50	Pre modification peak	Sample:7-210611A05, Compound:HXF, RT:33.835	
14-Jun-21	09:50:50	Peak modified	Sample:7-210611A05, Compound:HXF, RT:33.835	NA210614MB
14-Jun-21	09:51:14	Pre modification peak	Sample:7-210611A05, Compound:HXF, RT:34.652	
14-Jun-21	09:51:14	Peak modified	Sample:7-210611A05, Compound:HXF, RT:34.652	NA210614MB
14-Jun-21	09:51:14	Pre modification peak	Sample:7-210611A05, Compound:HXF, RT:34.238	
14-Jun-21	09:51:14	Peak modified	Sample:7-210611A05, Compound:HXF, RT:34.238	NA210614MB
14-Jun-21	09:51:28	Pre modification peak	Sample:7-210611A05, Compound:PF-f2, RT:32.110	
14-Jun-21	09:51:28	Peak modified	Sample:7-210611A05, Compound:PF-f2, RT:32.110	NA210614MB
14-Jun-21	09:51:28	Pre modification peak	Sample:7-210611A05, Compound:PF-f2, RT:31.420	
14-Jun-21	09:51:28	Peak modified	Sample:7-210611A05, Compound:PF-f2, RT:31.420	NA210614MB
14-Jun-21	09:51:47	Pre modification peak	Sample:7-210611A05, Compound:HPD, RT:35.993	
14-Jun-21	09:51:47	Peak modified	Sample:7-210611A05, Compound:HPD, RT:35.993	NA210614MB
14-Jun-21	09:51:57	Pre modification peak	Sample:7-210611A05, Compound:OCD, RT:36.840	
14-Jun-21	09:51:57	Peak modified	Sample:7-210611A05, Compound:OCD, RT:36.840	NA210614MB
14-Jun-21	09:51:57	Pre modification peak	Sample:7-210611A05, Compound:OCD, RT:37.502	
14-Jun-21	09:51:57	Peak modified	Sample:7-210611A05, Compound:OCD, RT:37.502	NA210614MB
14-Jun-21	09:52:15	Pre modification peak	Sample:7-210611A05, Compound:TF, RT:27.597	
14-Jun-21	09:52:15	Peak modified	Sample:7-210611A05, Compound:TF, RT:27.597	NA210614MB
14-Jun-21	09:56:16	Pre modification peak	Sample:7-210611A05, Compound:TD, RT:28.528	

Quantify Audit Report MassLynx MassLynx V4.1 SCN 901

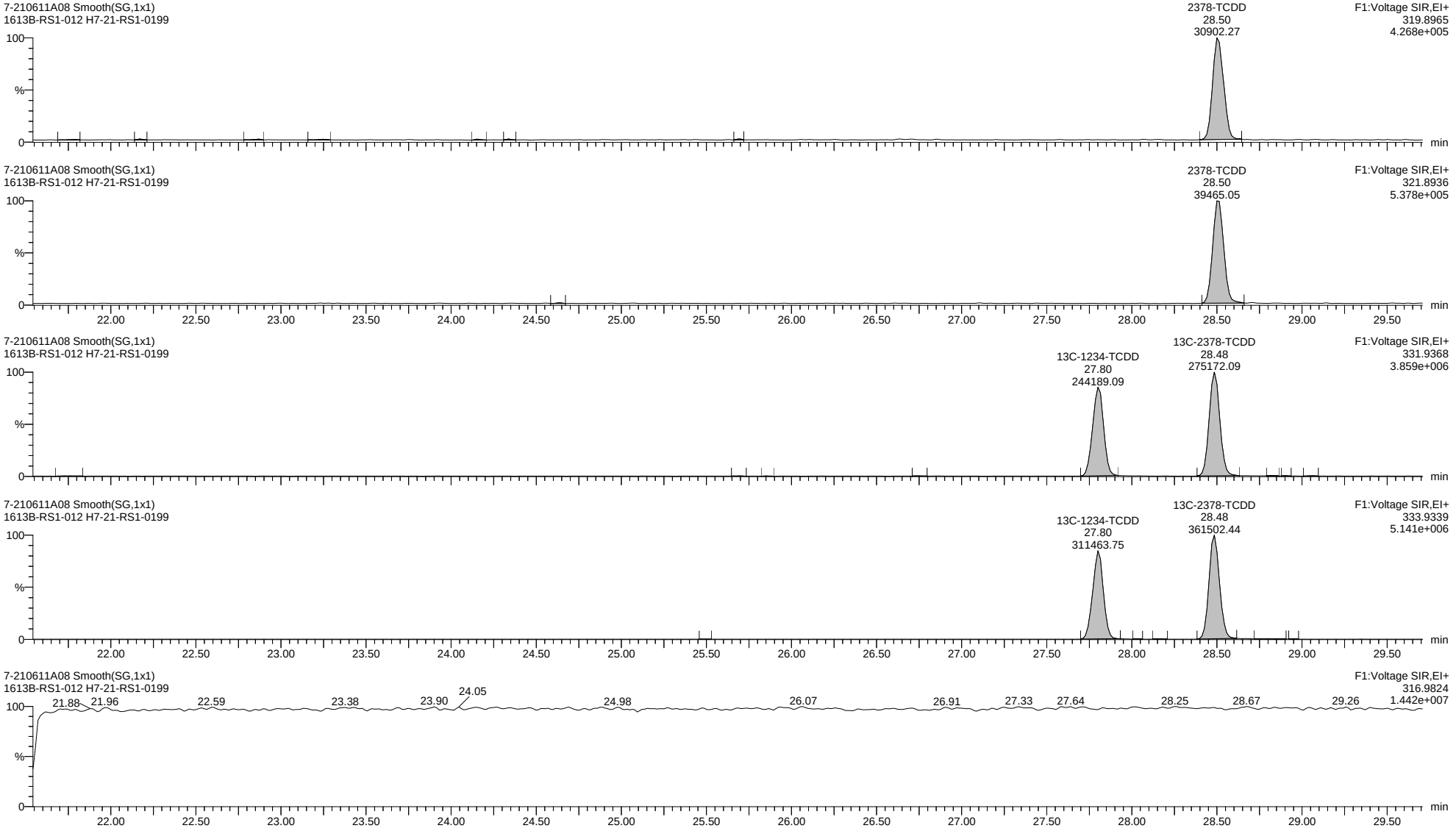
Dataset: I:\Organics Instrument\HIGHRES GCMS Completed Results Files\HR-7\7-210611A-ICAL-1613-QC.qld

Last Altered: Monday, June 14, 2021 09:56:28 Eastern Daylight Time
Printed: Thursday, June 17, 2021 12:18:56 Eastern Daylight Time

Date	Time	Event	Details	Comments
14-Jun-21	09:56:16	Peak modified	Sample:7-210611A05, Compound:TD, RT:28.528	NA210614MB
14-Jun-21	09:56:16	Pre modification peak	Sample:7-210611A05, Compound:TD, RT:28.514	
14-Jun-21	09:56:16	Peak modified	Sample:7-210611A05, Compound:TD, RT:28.514	NA210614MB
14-Jun-21	09:56:26	Pre modification peak	Sample:7-210611A05, Compound:PD, RT:32.318	
14-Jun-21	09:56:26	Peak modified	Sample:7-210611A05, Compound:PD, RT:32.318	NA210614MB
14-Jun-21	09:58:43	Dataset Saved	Saved to 'I:\Organics Instrument\HIGHRES GCMS Complete...	

Method: C:\MassLynx\Dioxin.PRO\MethDB\Dioxin_1613B.mdb 08 Jun 2021 10:17:10
Calibration: C:\MassLynx\Dioxin.PRO\CurveDB\7-210611A-CAL5-1613.cdb 14 Jun 2021 09:35:05

Name: 7-210611A08, Date: 11-Jun-2021, Time: 17:31:55, ID: H7-21-RS1-0199, Description: 1613B-RS1-012, Vial: Tray1:10



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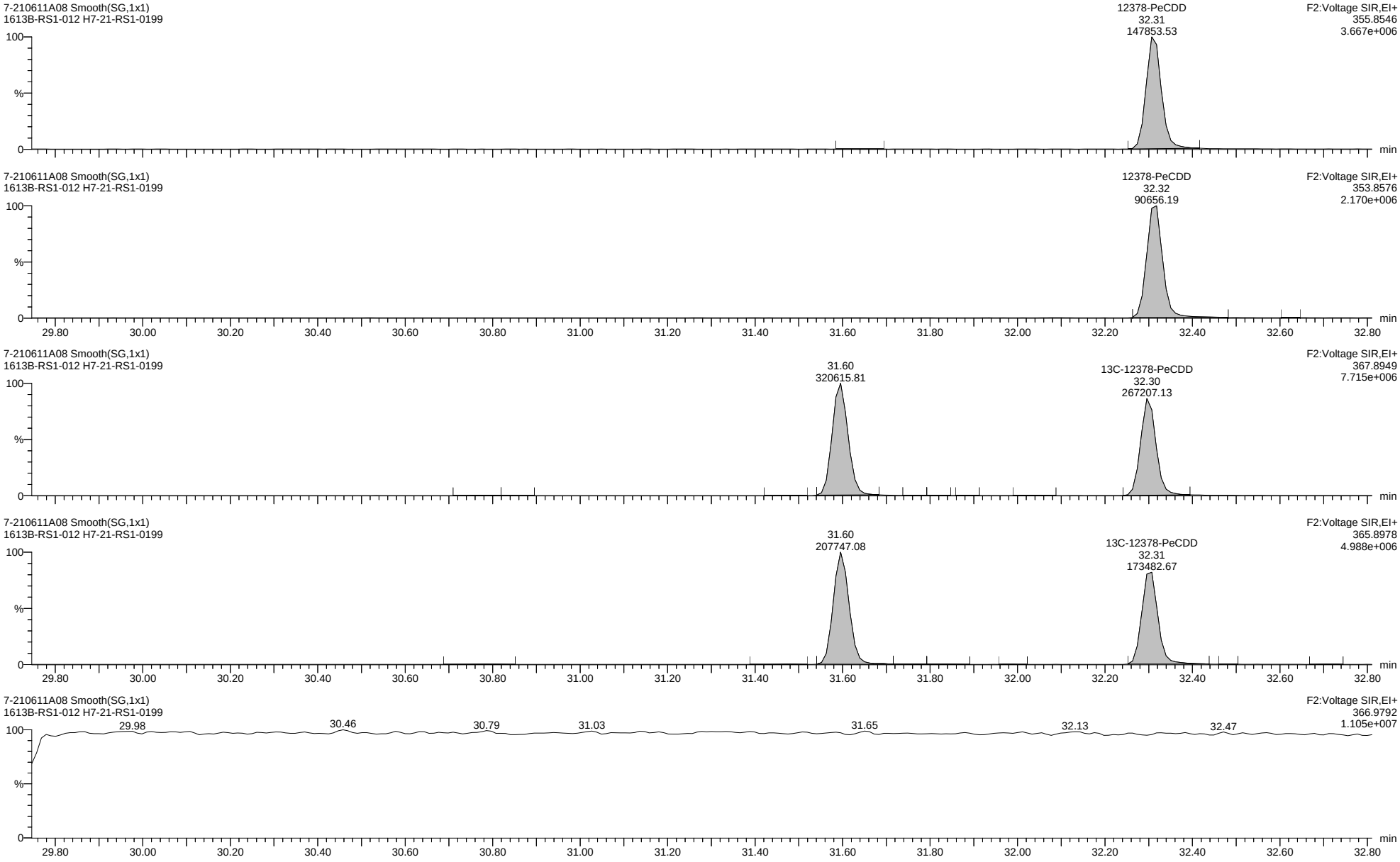

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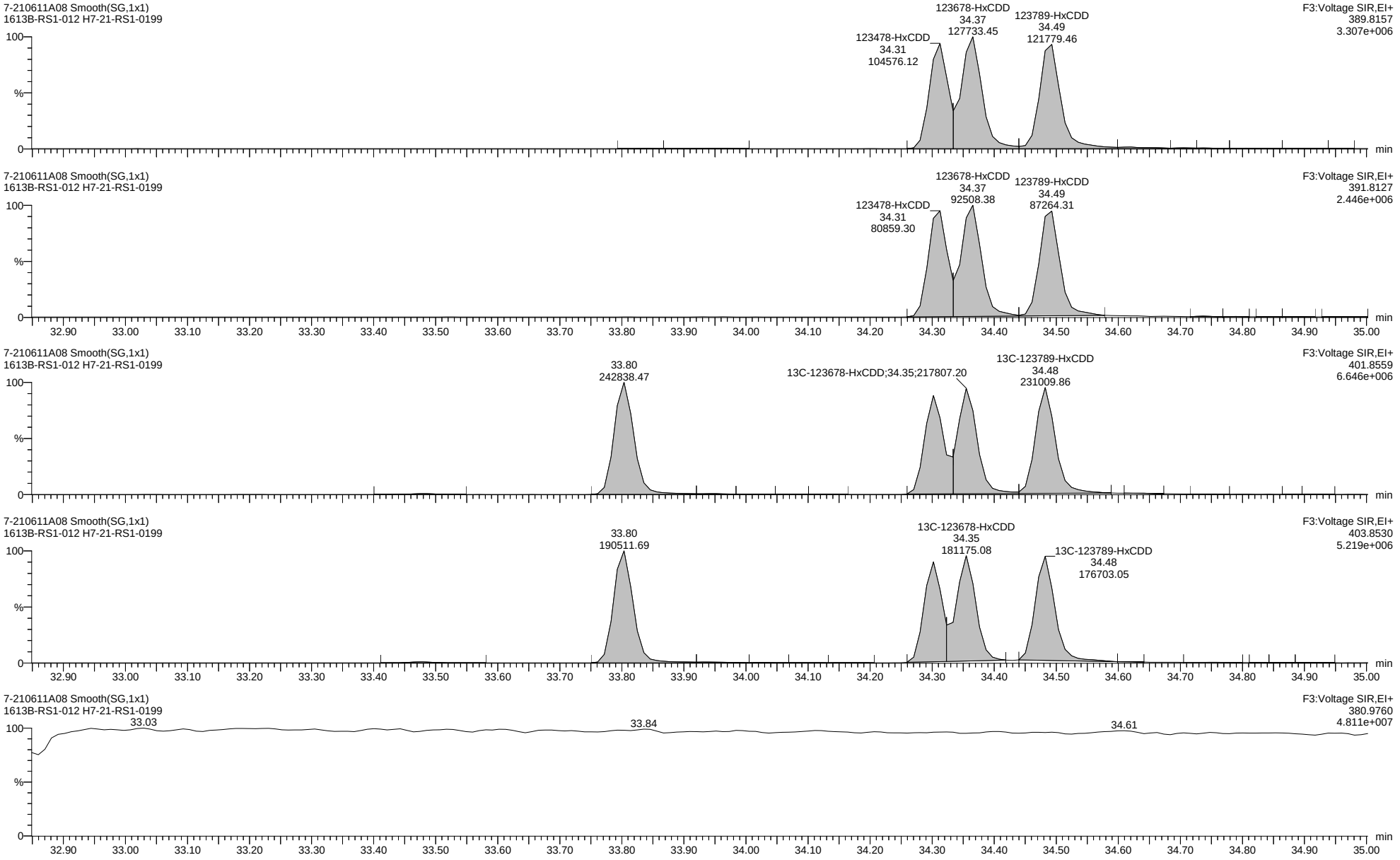
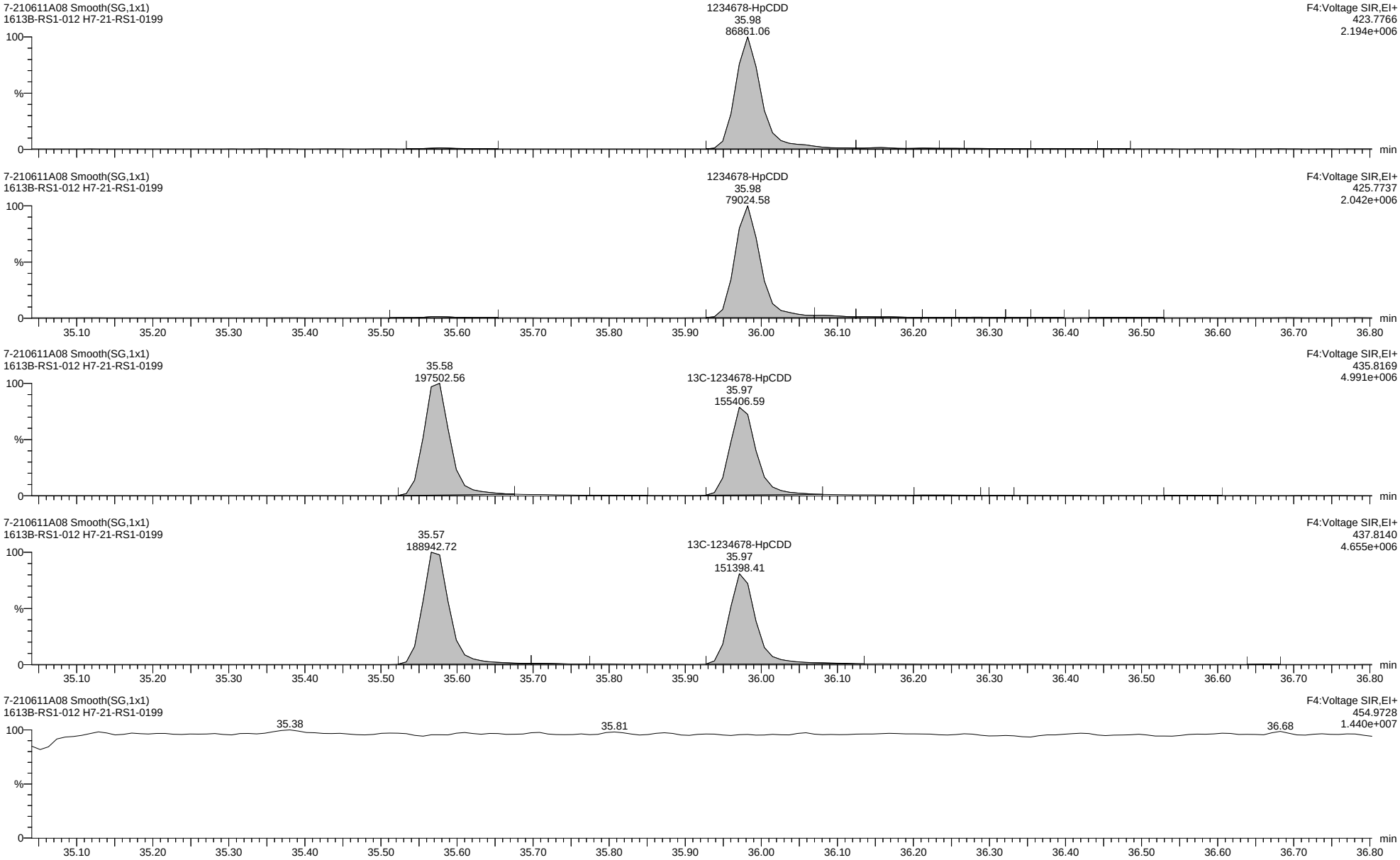


Name: 7-210611A08, Date: 11-Jun-2021, Time: 17:31:55, ID: H7-21-RS1-0199, Description: 1613B-RS1-012, Vial: Tray1:10



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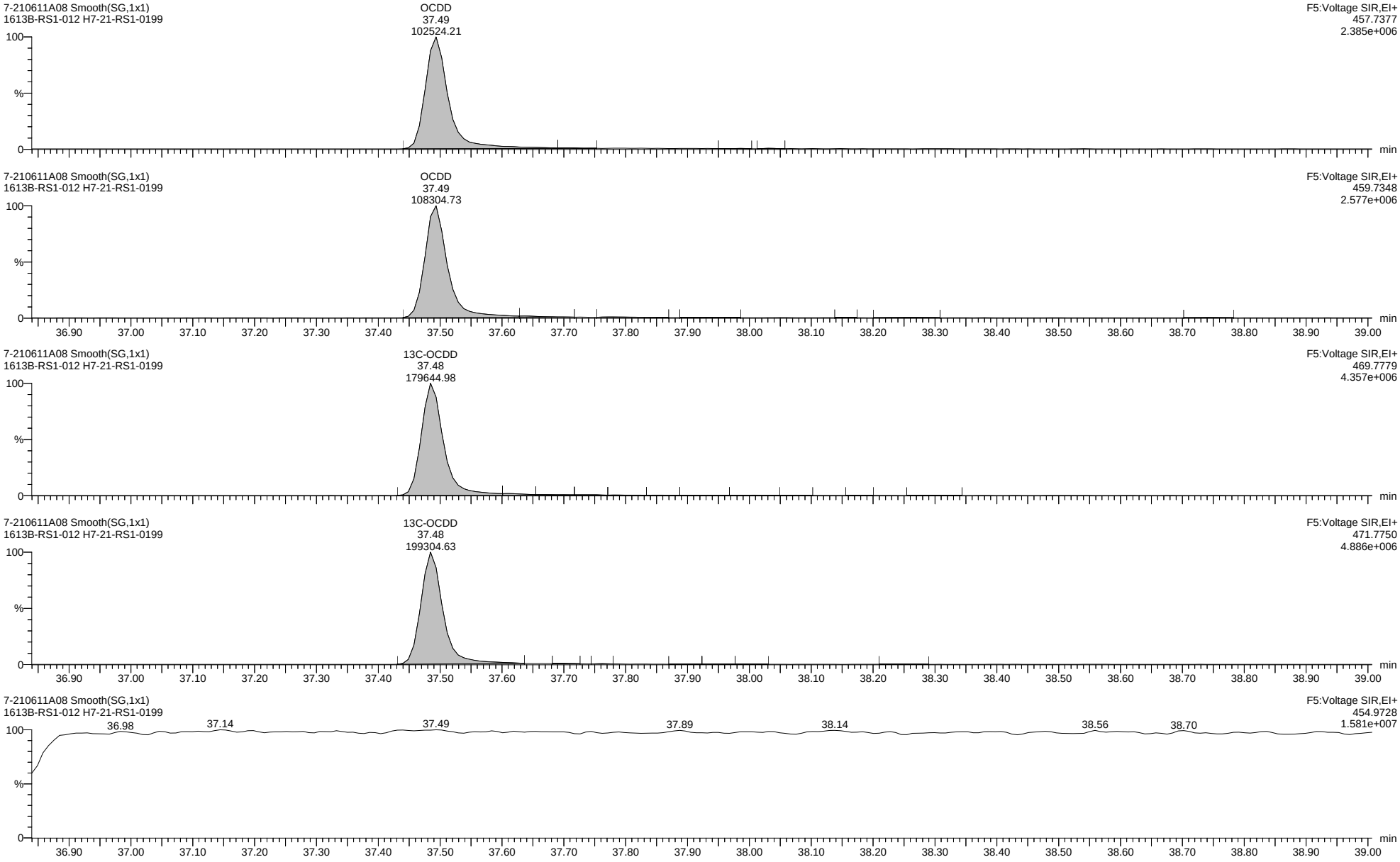

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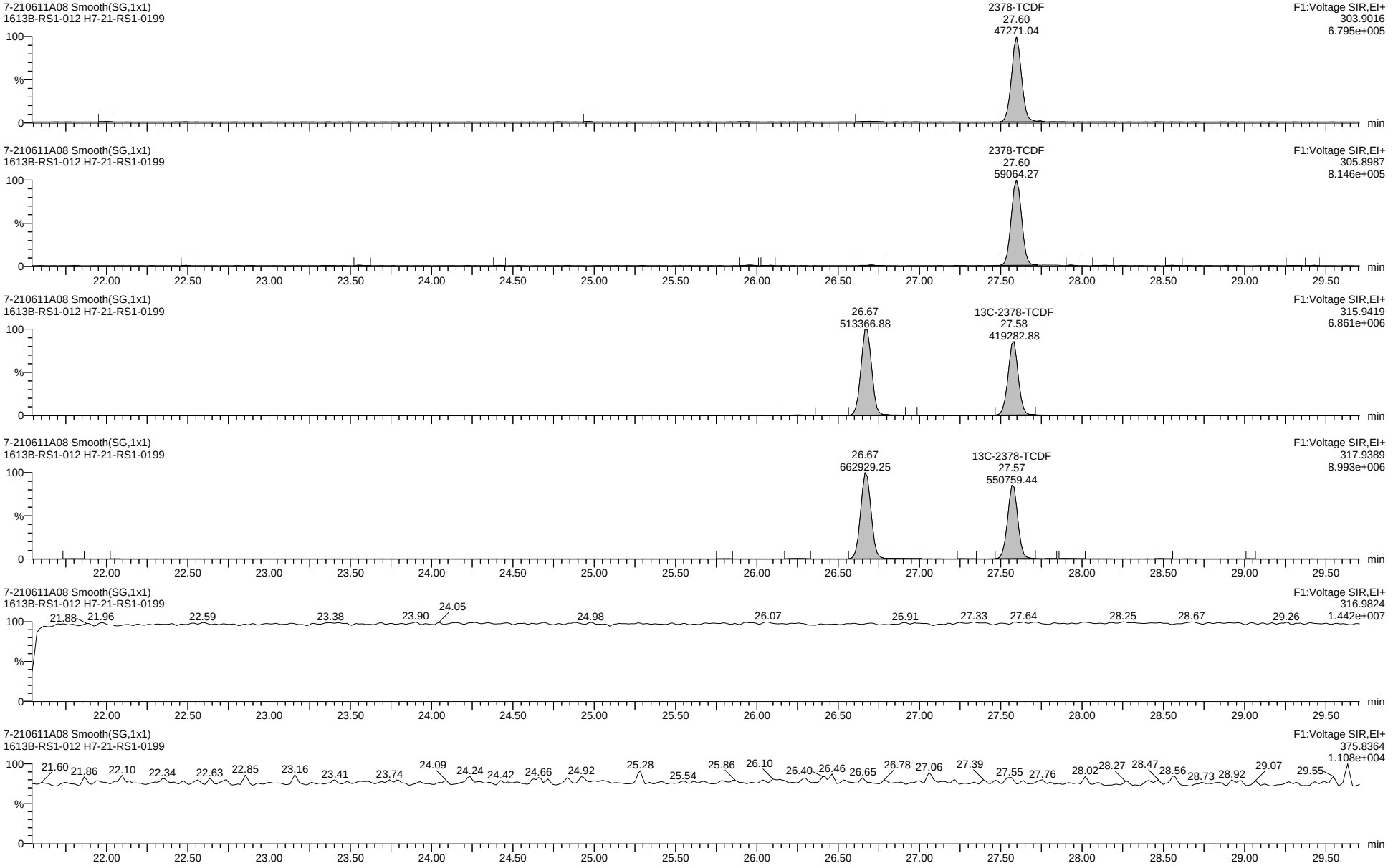

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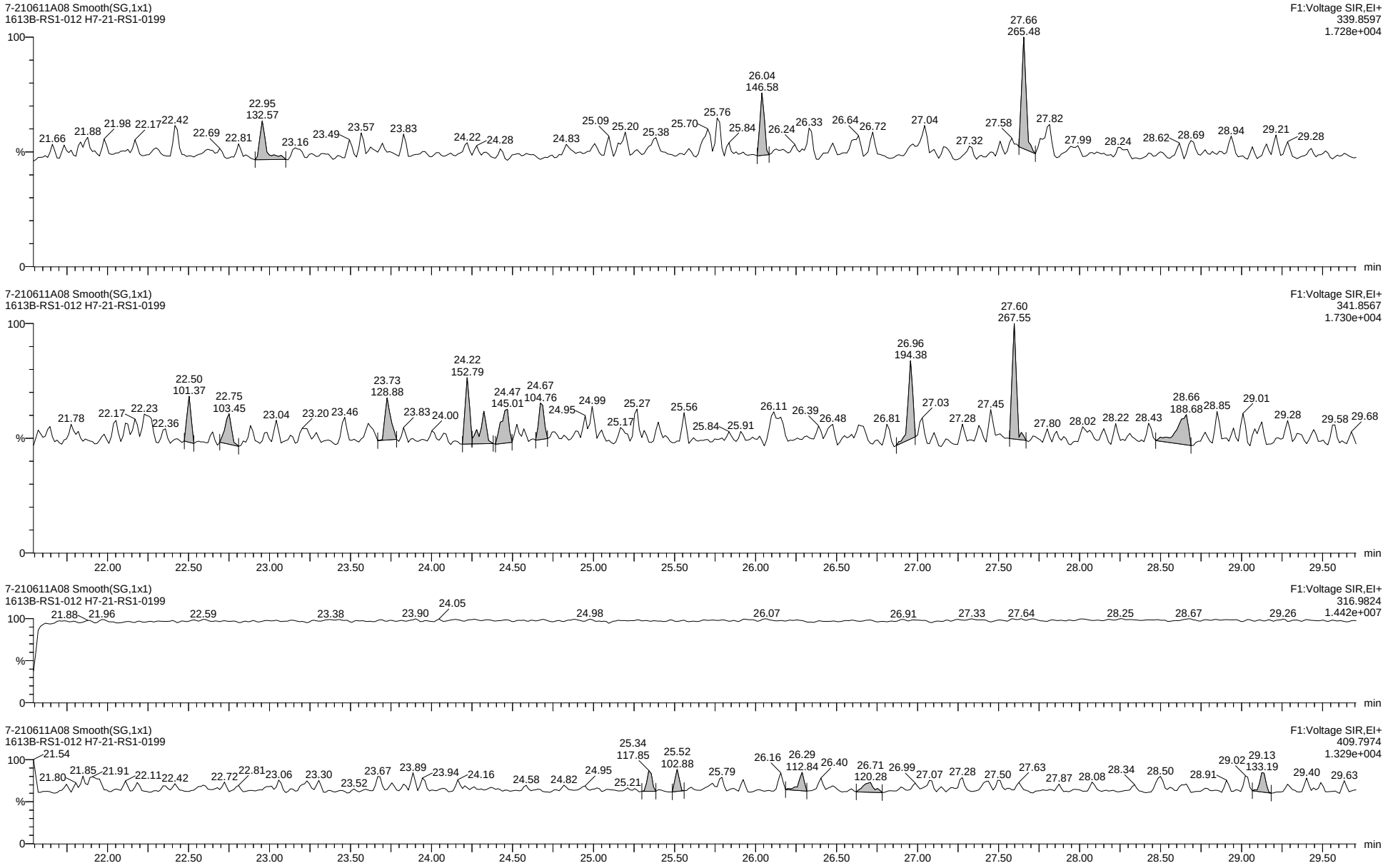

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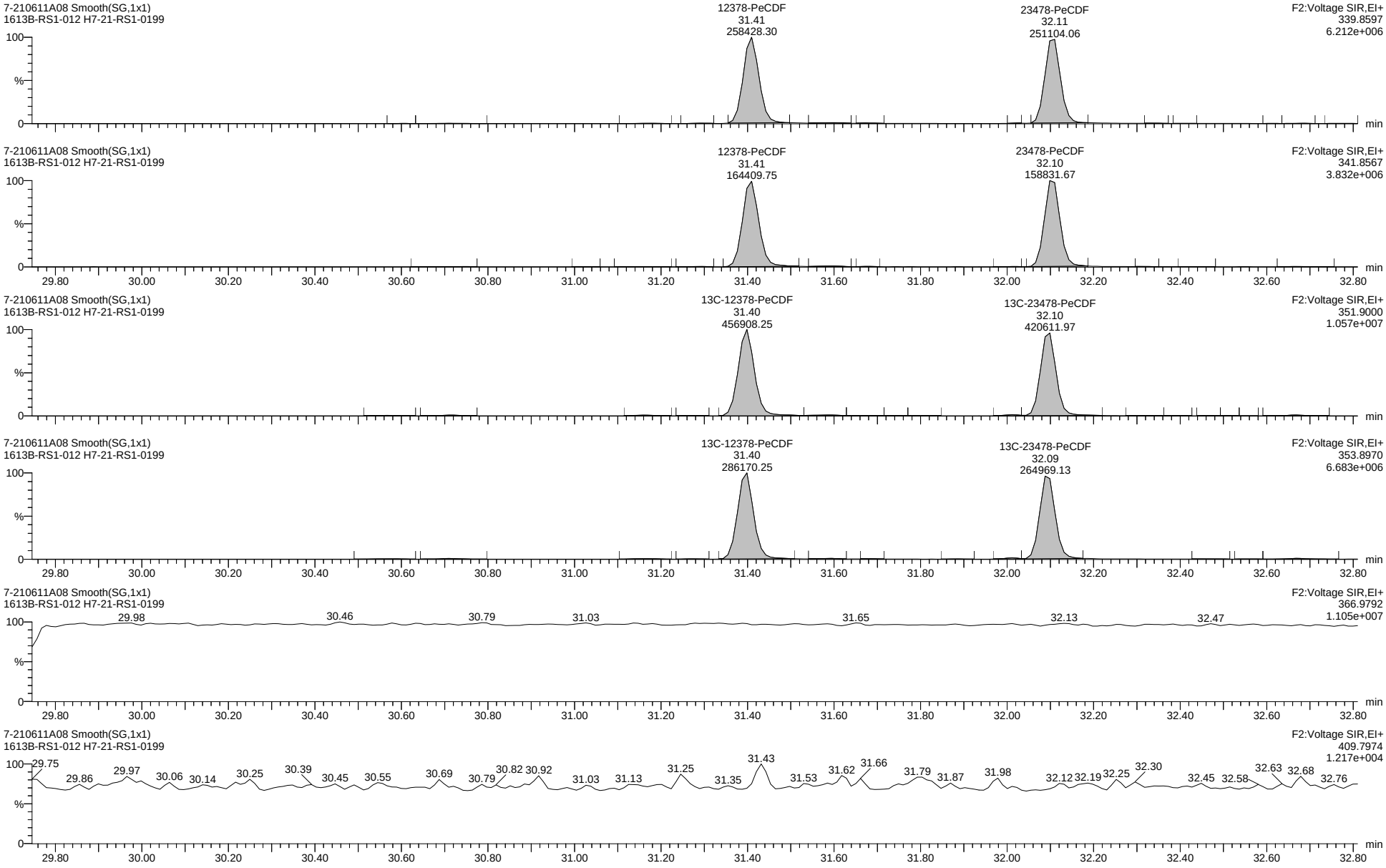

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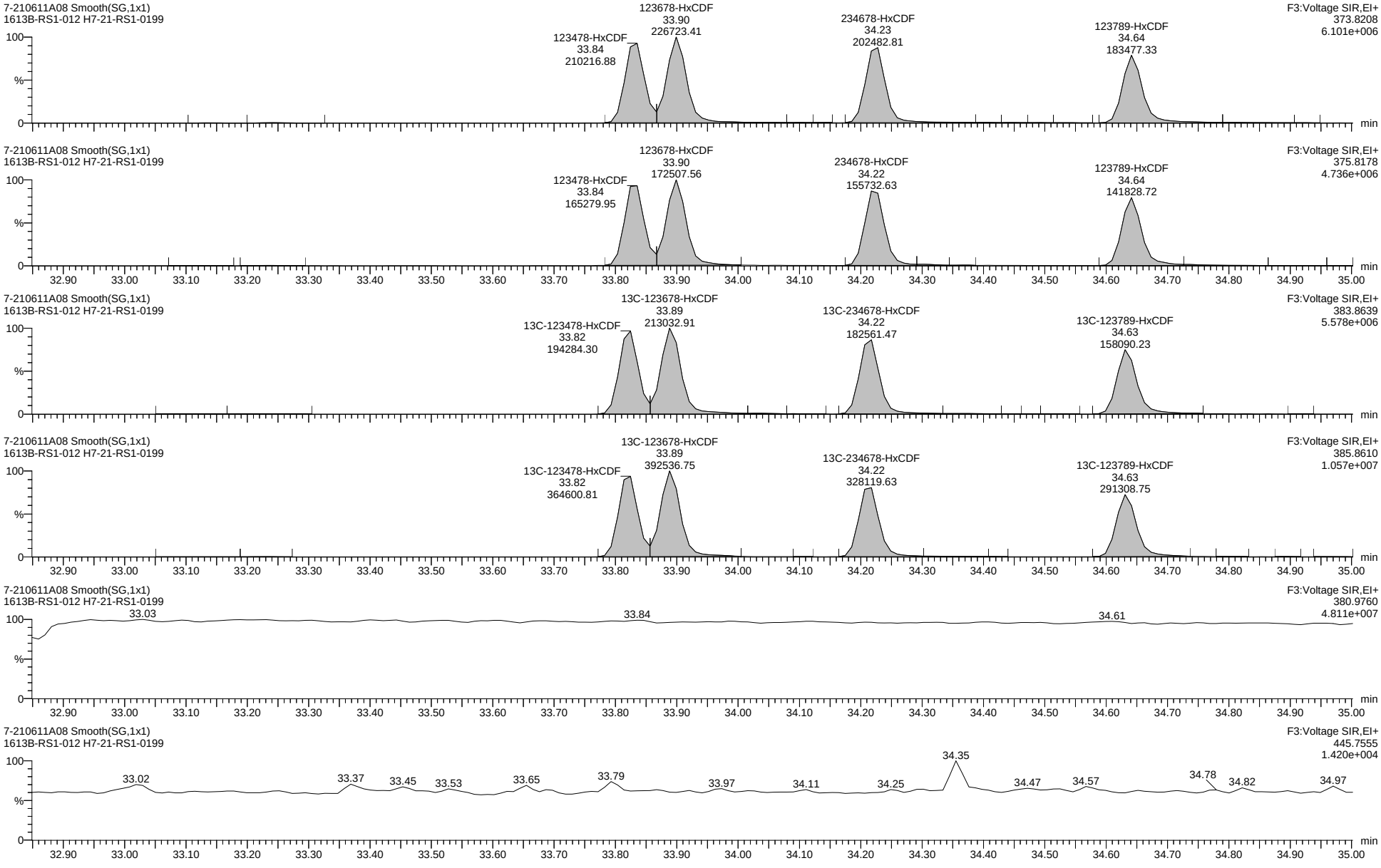

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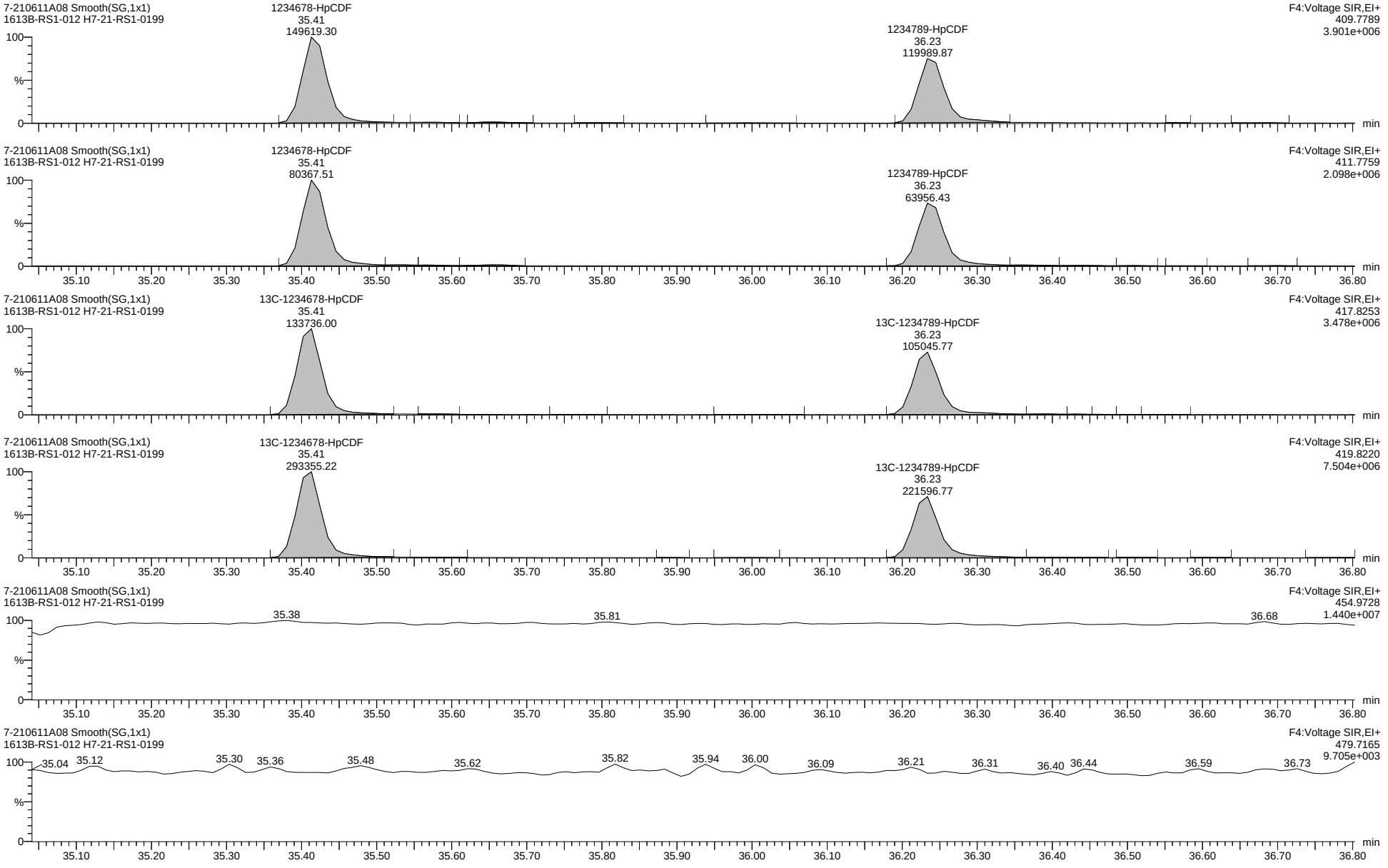
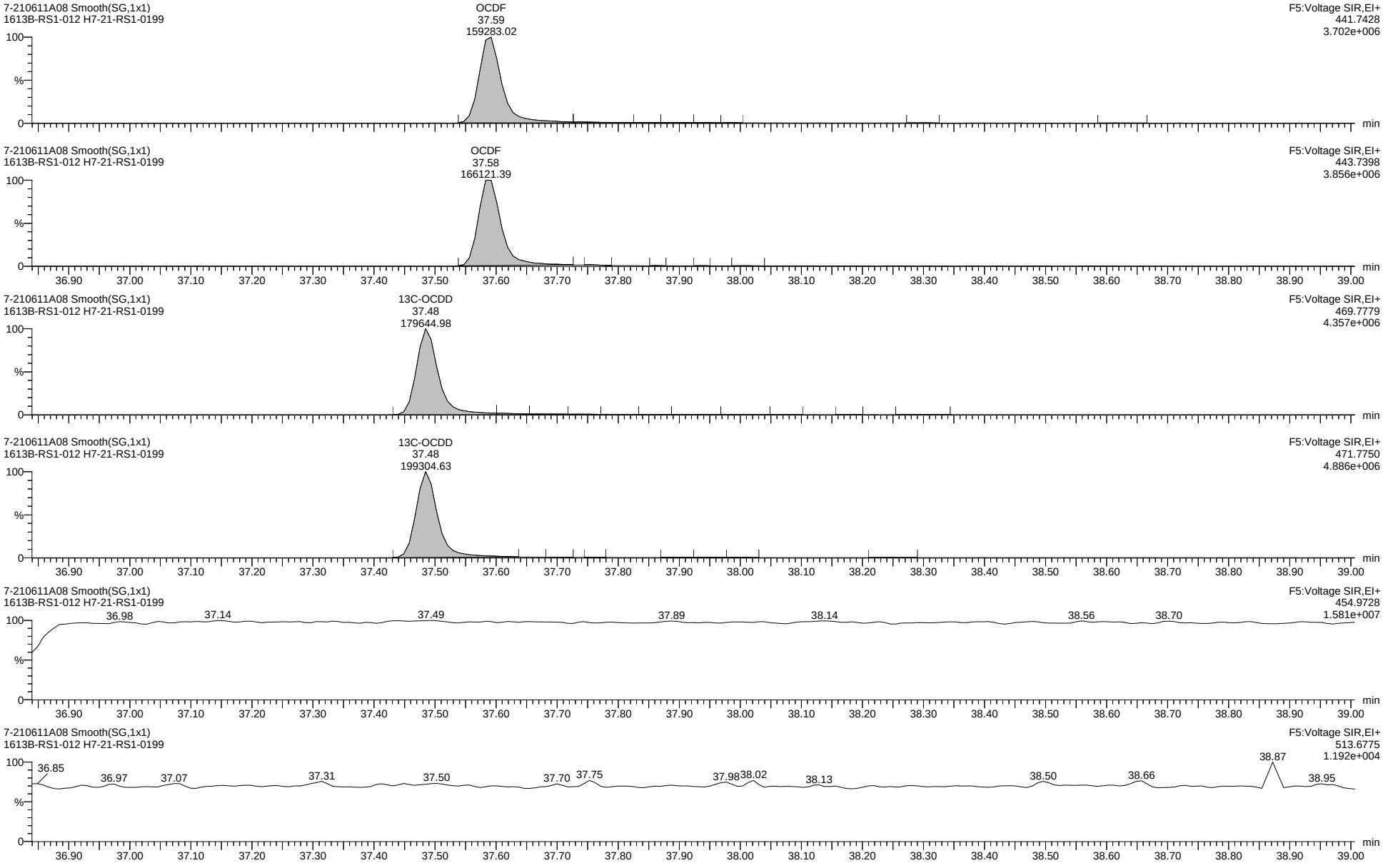


Dataset: I:\Organics Instrument\HIGHRES GCMS Completed Results Files\HR-7\7-210611A-ICAL-1613-QC.qld

Last Altered: Monday, June 14, 2021 09:56:28 Eastern Daylight Time
Printed: Thursday, June 17, 2021 12:18:56 Eastern Daylight Time

Name: 7-210611A08, Date: 11-Jun-2021, Time: 17:31:55, ID: H7-21-RS1-0199, Description: 1613B-RS1-012, Vial: Tray1:10



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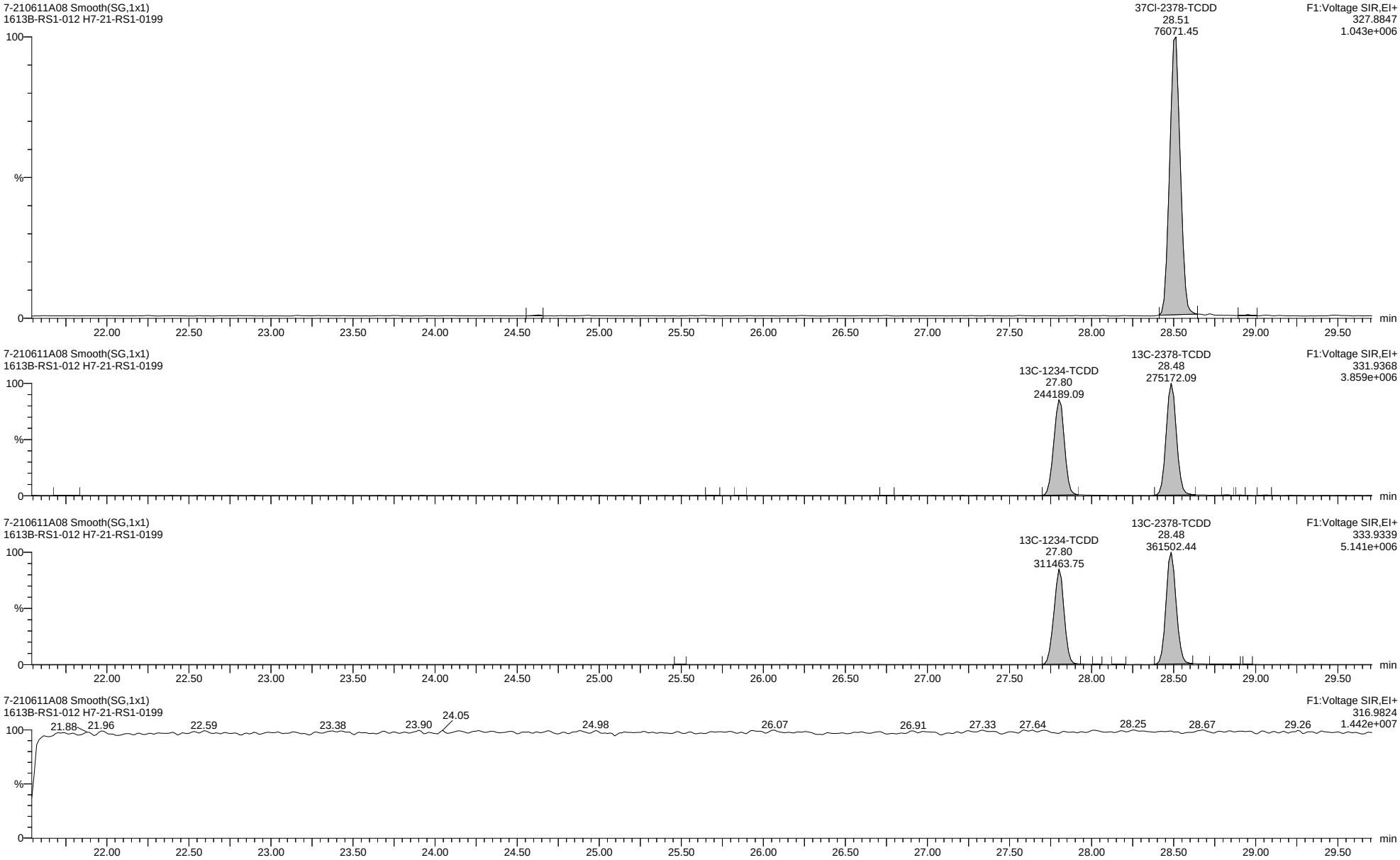
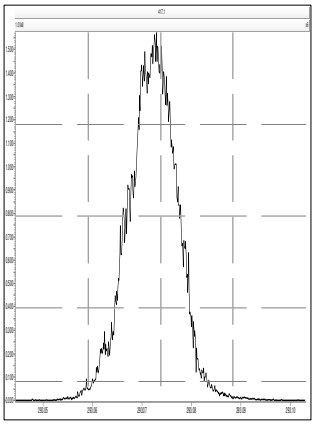


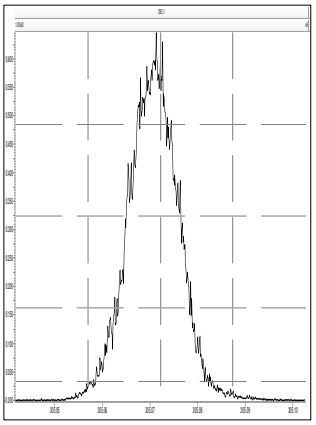
File: Experiment: Dioxin_1613B.exp Reference: Pfk.ref Function: 1 @ 200 (ppm)

Printed: Friday, June 11, 2021 12:03:02 Eastern Daylight Time

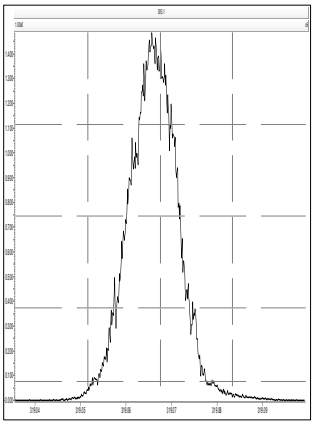
M 292.9824 R 12560



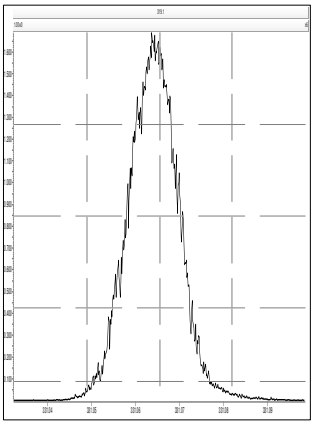
M 304.9824 R 12822



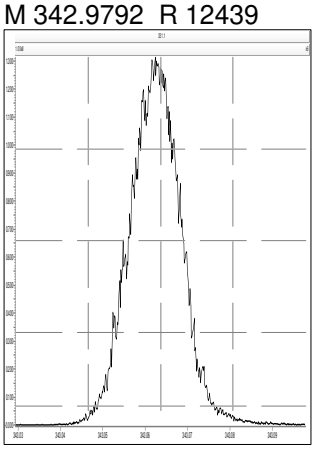
M 318.9792 R 13369



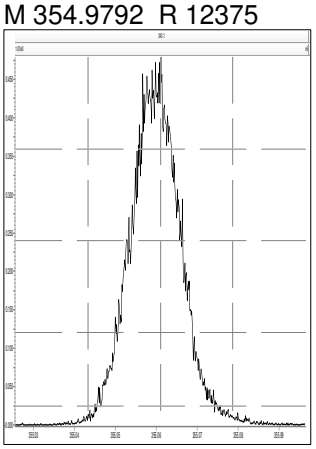
M 330.9792 R 12624



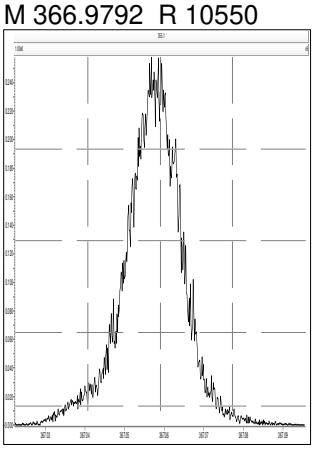
M 342.9792 R 12439



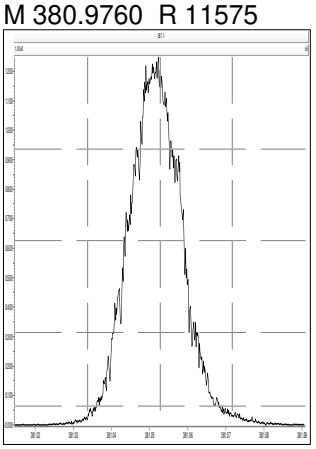
M 354.9792 R 12375



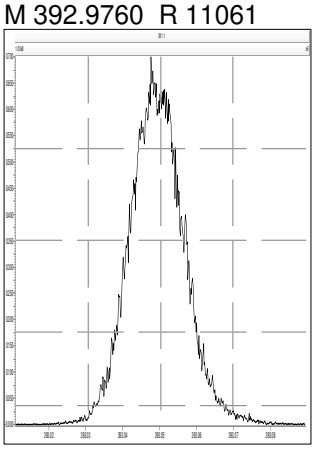
M 366.9792 R 10550



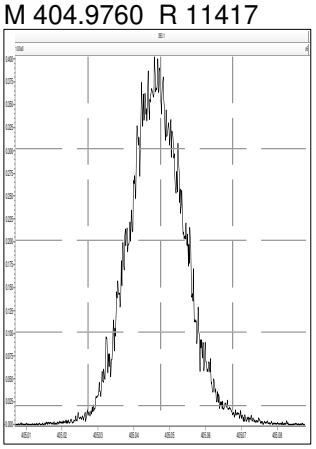
M 380.9760 R 11575



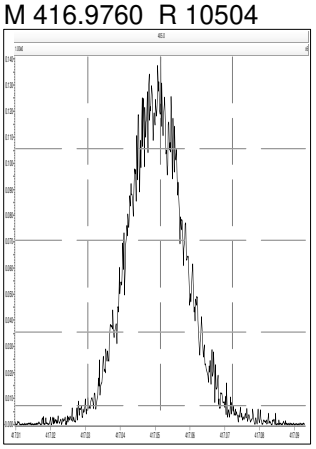
M 392.9760 R 11061



M 404.9760 R 11417



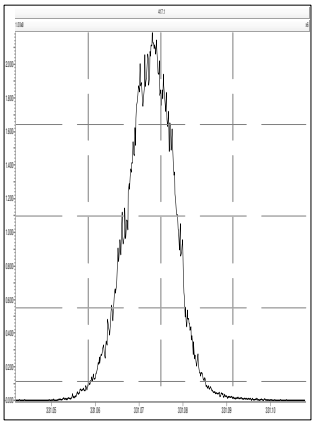
M 416.9760 R 10504



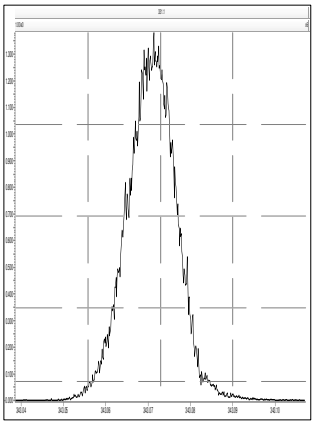
File: Experiment: Dioxin_1613B.exp Reference: Pfk.ref Function: 2 @ 200 (ppm)

Printed: Friday, June 11, 2021 12:03:22 Eastern Daylight Time

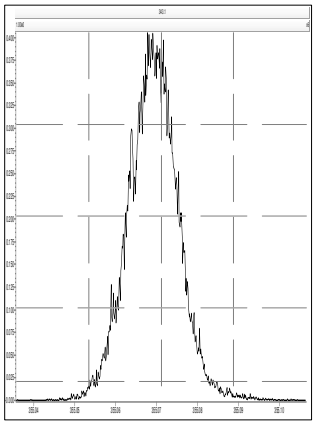
M 330.9792 R 12561



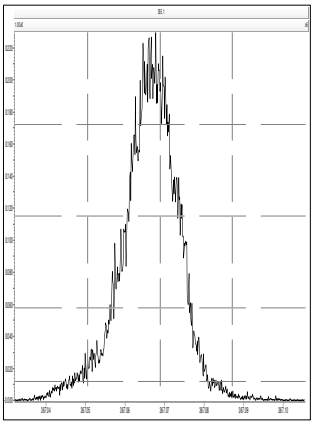
M 342.9792 R 13299



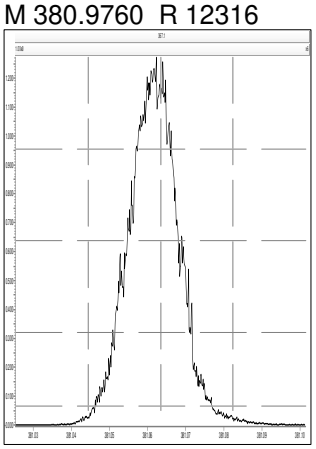
M 354.9792 R 13088



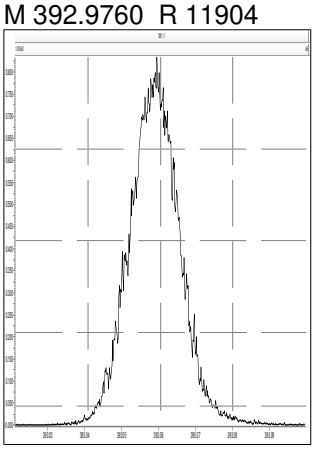
M 366.9792 R 10774



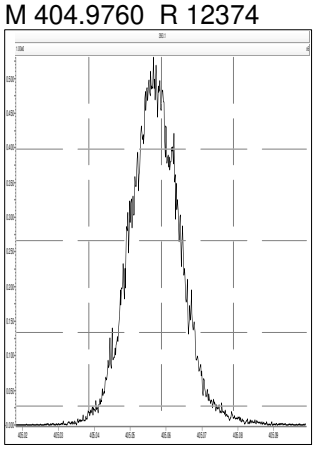
M 380.9760 R 12316



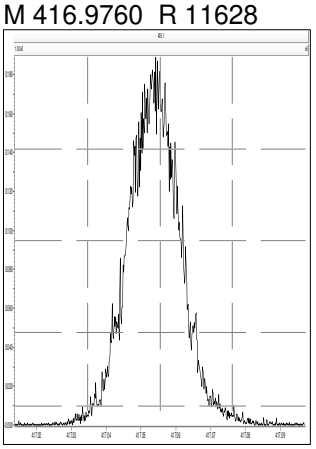
M 392.9760 R 11904



M 404.9760 R 12374



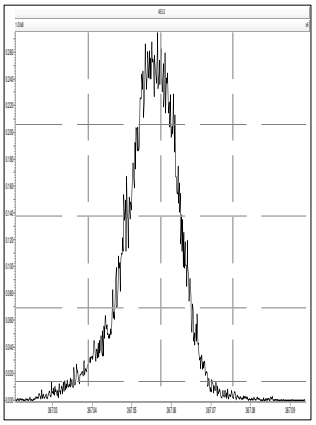
M 416.9760 R 11628



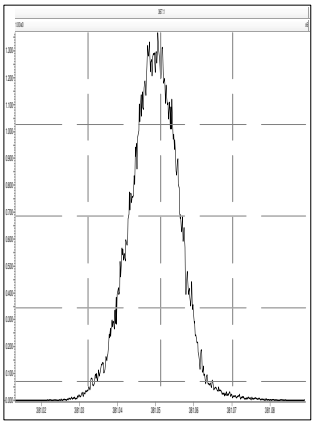
File: Experiment: Dioxin_1613B.exp Reference: Pfk.ref Function: 3 @ 200 (ppm)

Printed: Friday, June 11, 2021 12:03:44 Eastern Daylight Time

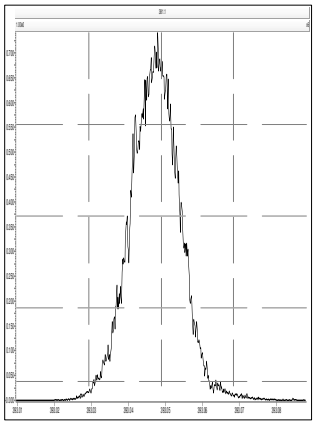
M 366.9792 R 10967



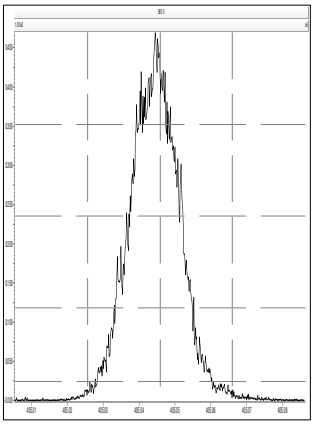
M 380.9760 R 12756



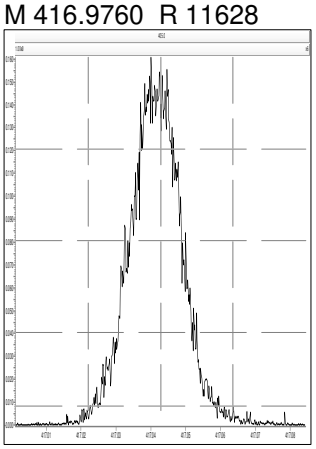
M 392.9760 R 12625



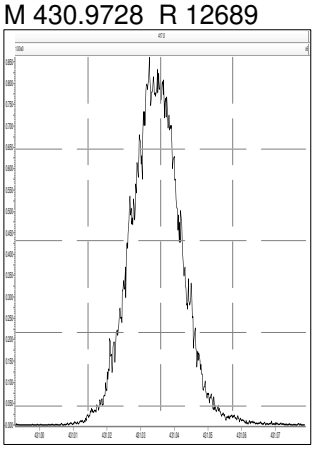
M 404.9760 R 12560



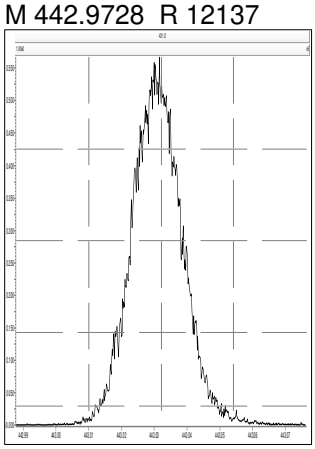
M 416.9760 R 11628



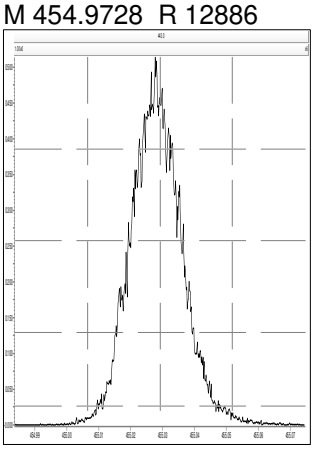
M 430.9728 R 12689



M 442.9728 R 12137



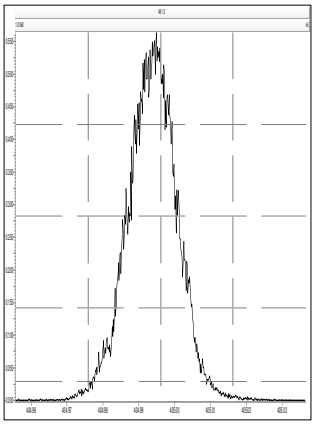
M 454.9728 R 12886



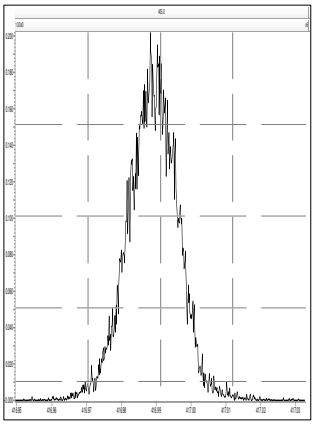
File: Experiment: Dioxin_1613B.exp Reference: Pfk.ref Function: 4 @ 200 (ppm)

Printed: Friday, June 11, 2021 12:04:05 Eastern Daylight Time

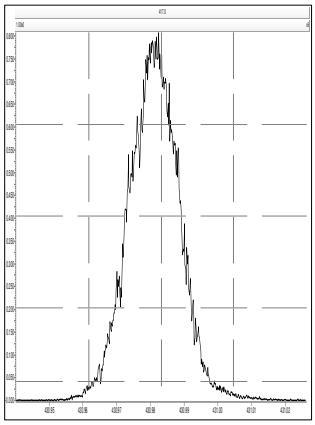
M 404.9760 R 12751



M 416.9760 R 13585



M 430.9728 R 12312



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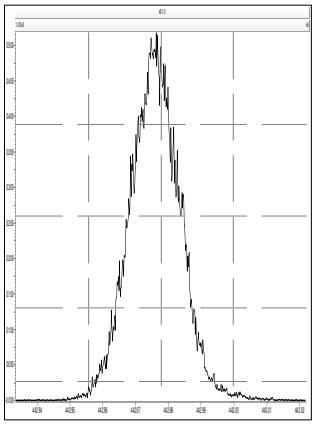
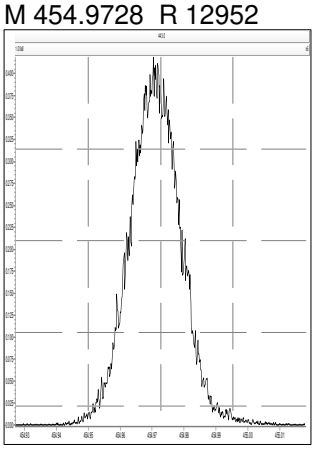


M 454.9728 R 12952



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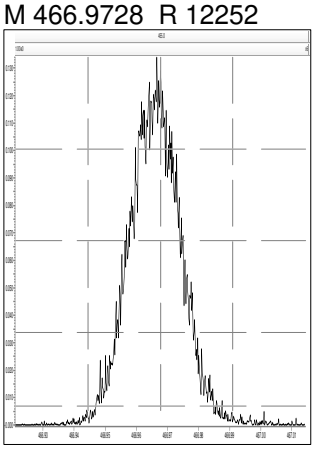

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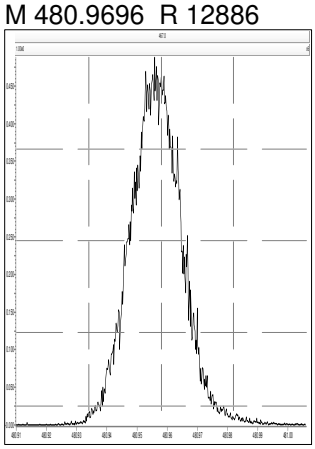

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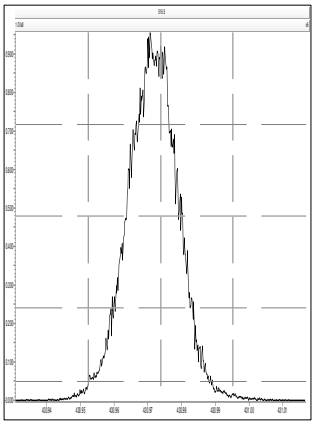

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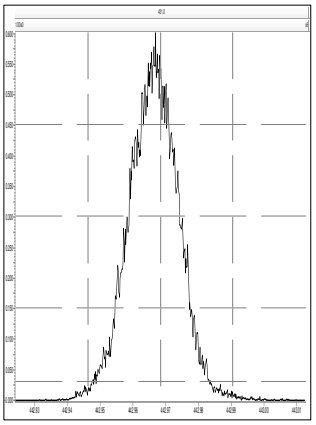

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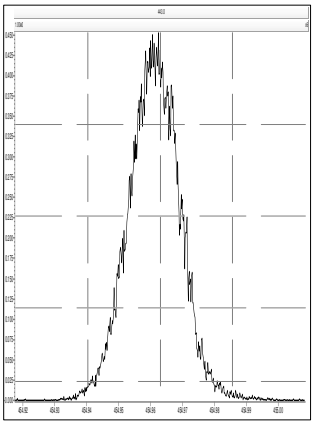

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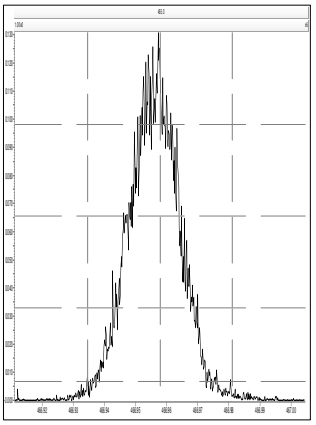

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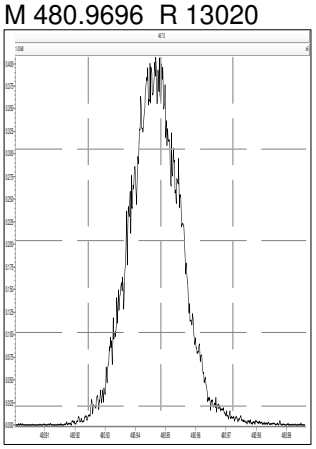
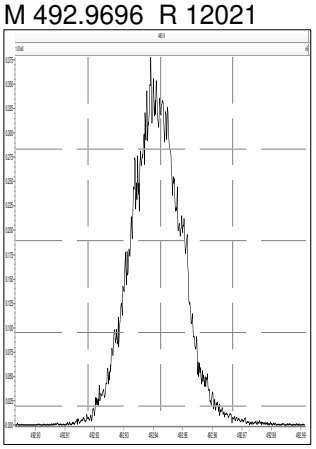


M 492.9696 R 12021



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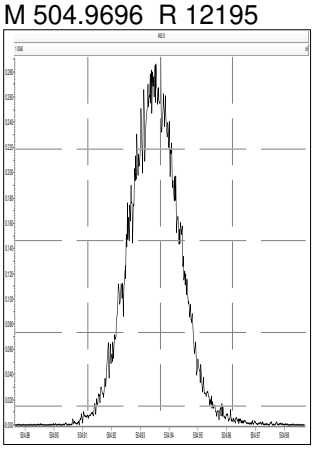
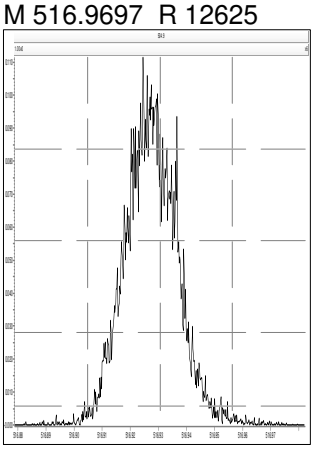


M 516.9697 R 12625



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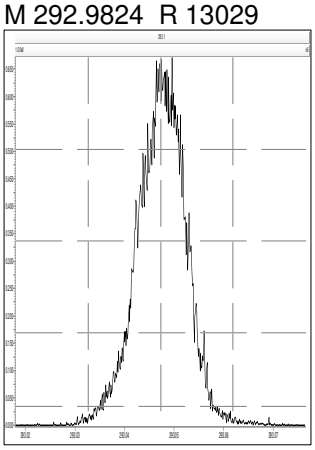
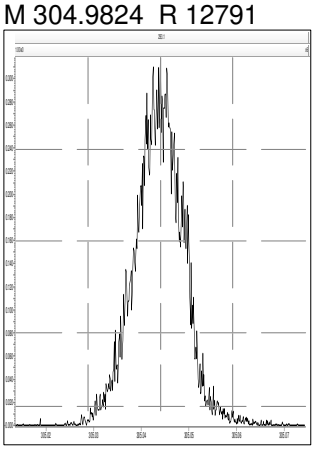


M 304.9824 R 12791



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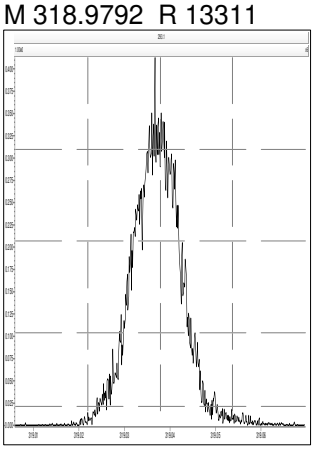

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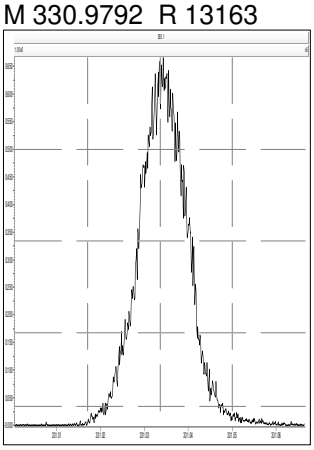

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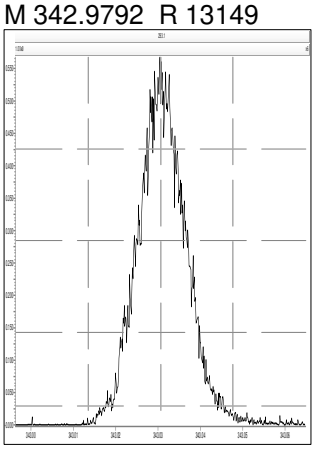

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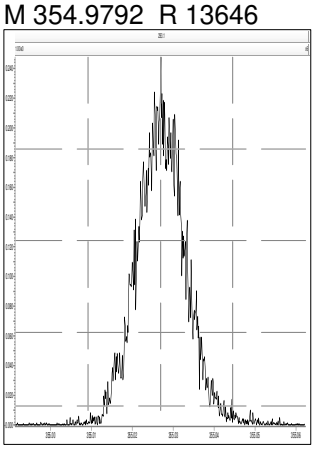

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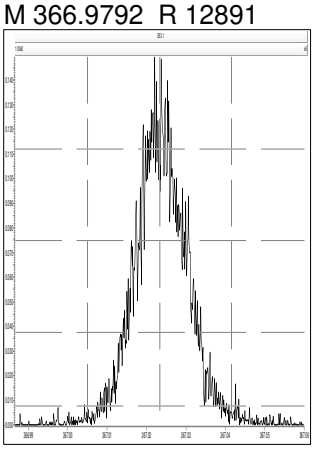
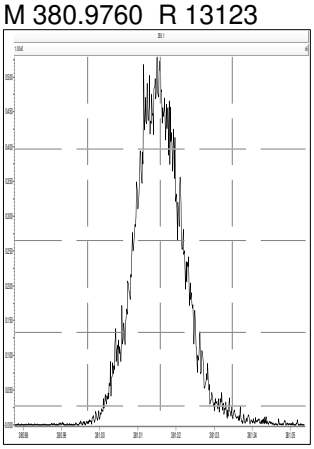
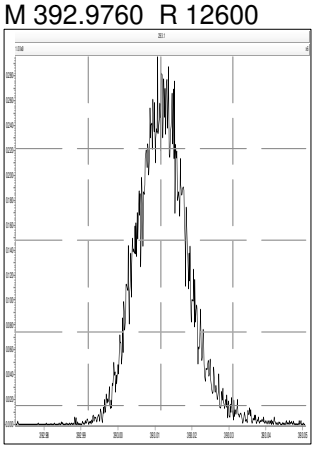


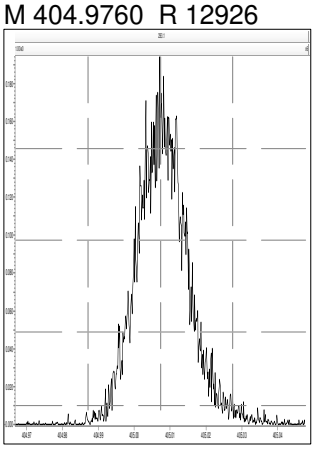
M 380.9760 R 13123



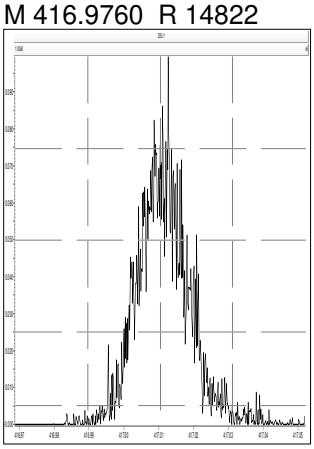
M 392.9760 R 12600



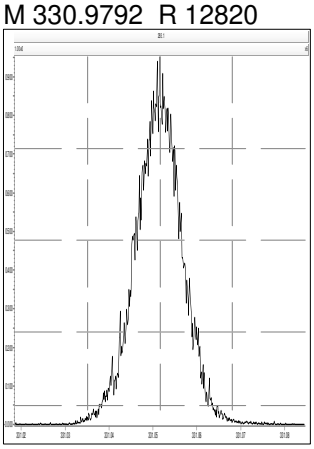
M 404.9760 R 12926



M 416.9760 R 14822



M 330.9792 R 12820



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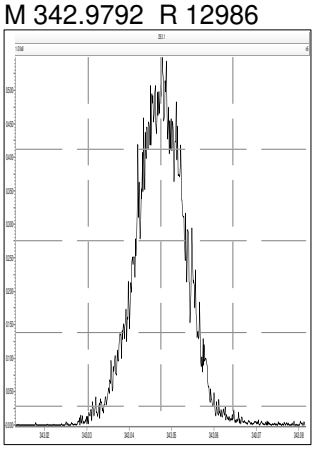

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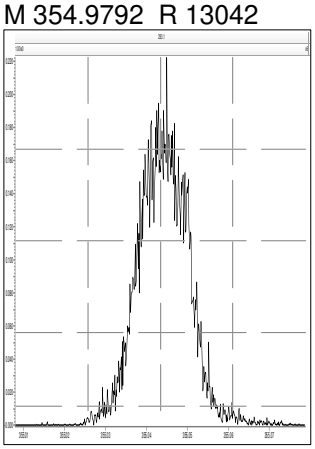

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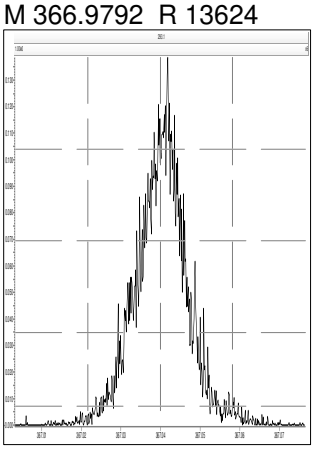
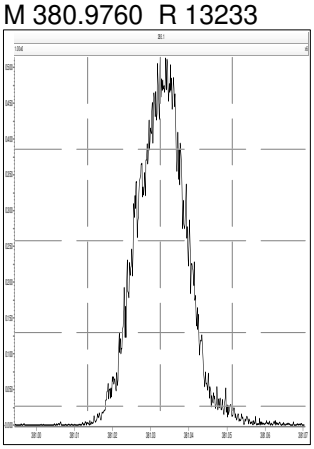


M 380.9760 R 13233



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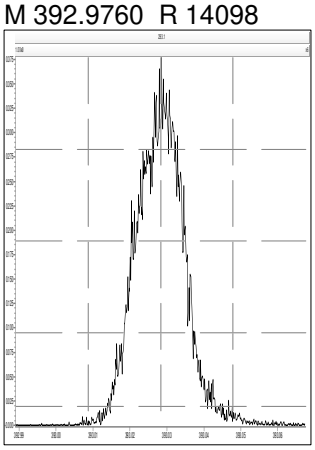

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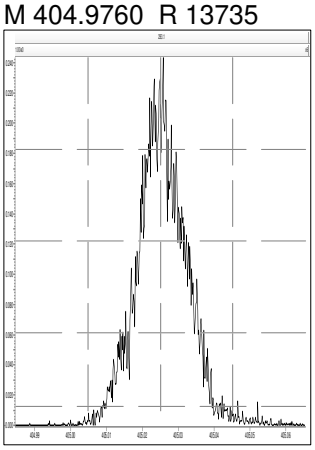
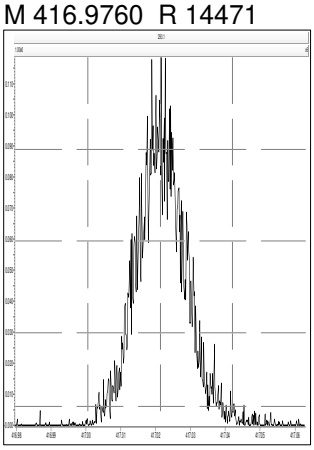
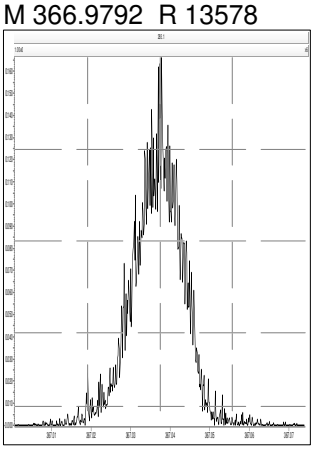


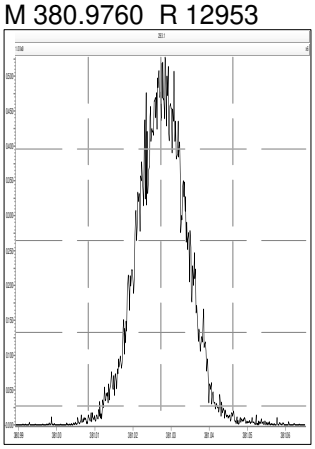
M 416.9760 R 14471



M 366.9792 R 13578



M 380.9760 R 12953



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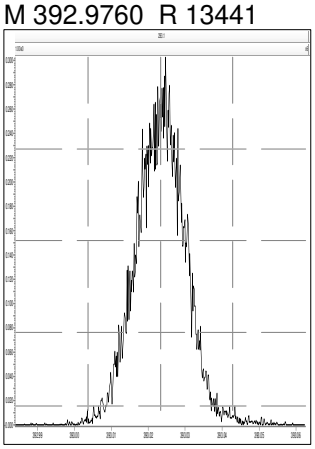
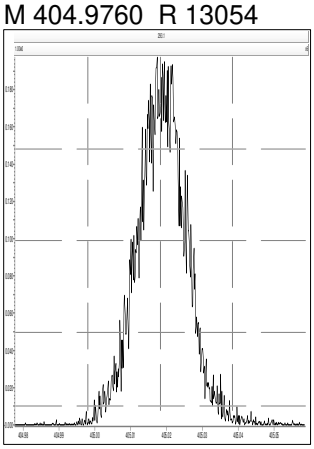
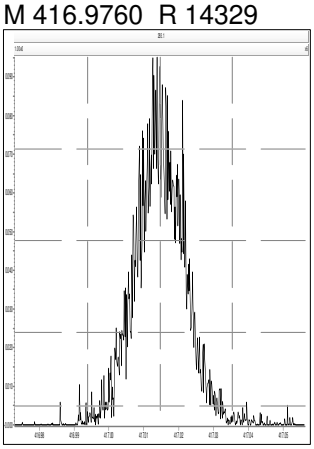


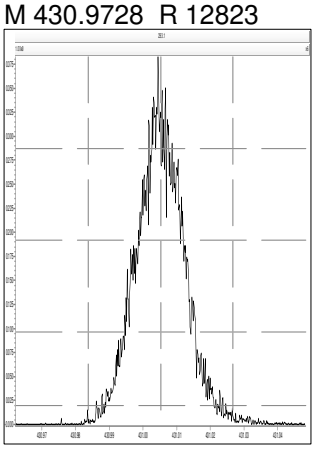
M 404.9760 R 13054



M 416.9760 R 14329



M 430.9728 R 12823



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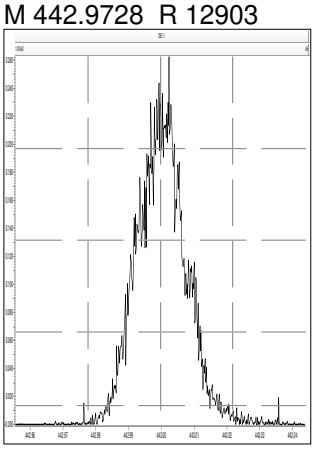
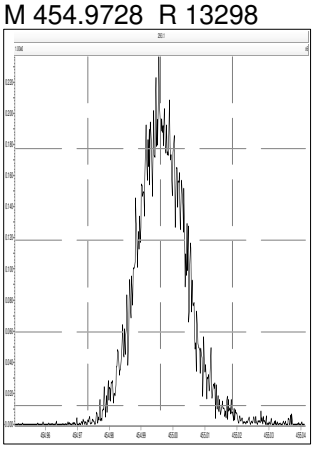
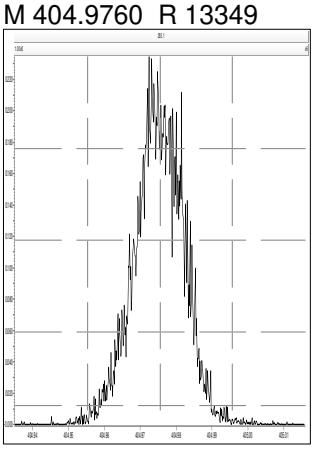


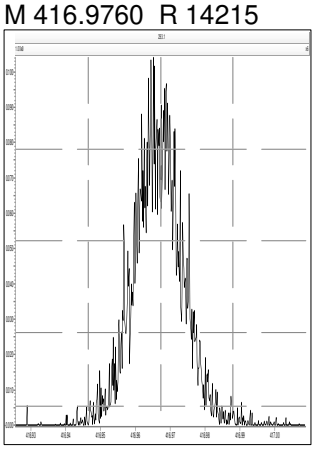
M 454.9728 R 13298



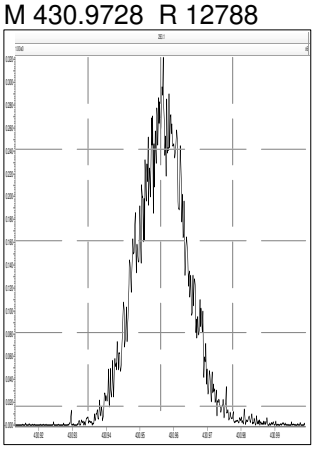
M 404.9760 R 13349



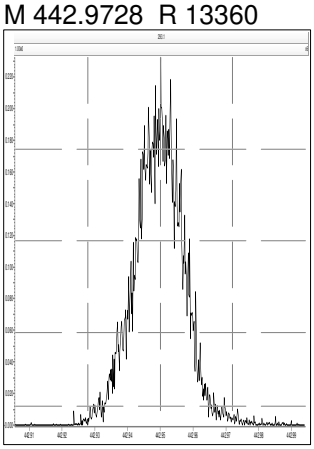
M 416.9760 R 14215



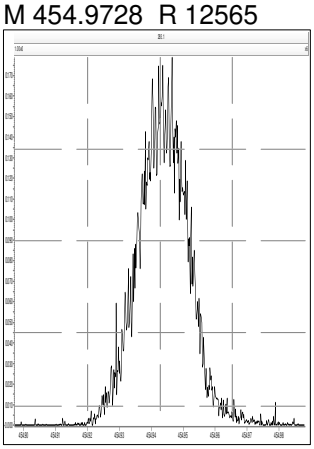
M 430.9728 R 12788



M 442.9728 R 13360



M 454.9728 R 12565



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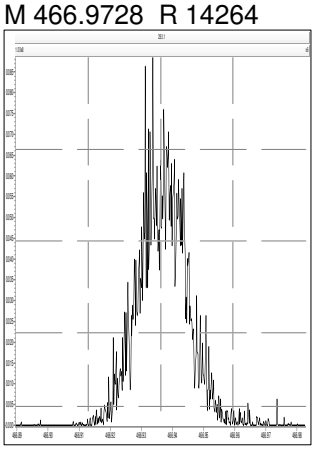
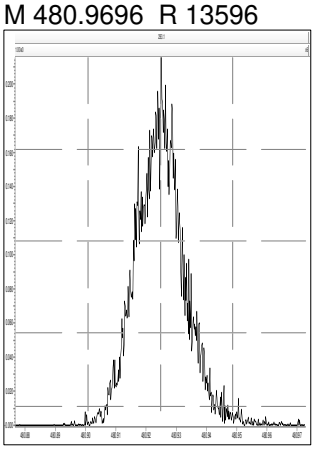
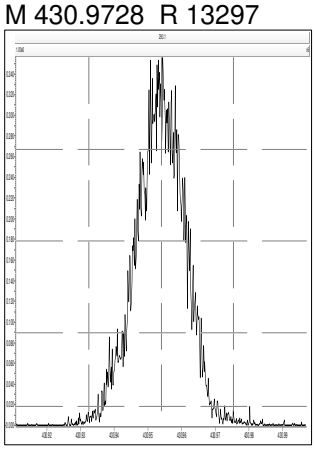


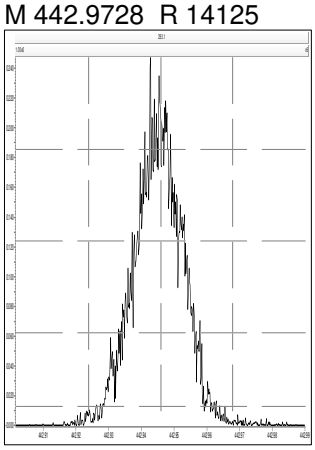
M 480.9696 R 13596



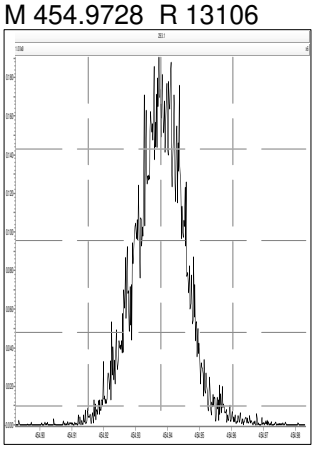
M 430.9728 R 13297



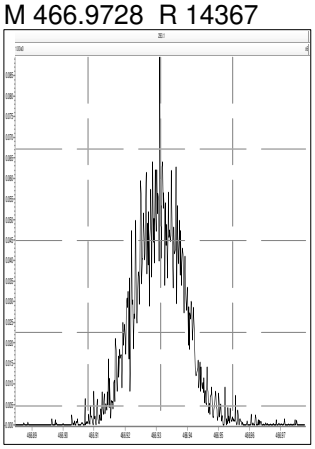
M 442.9728 R 14125



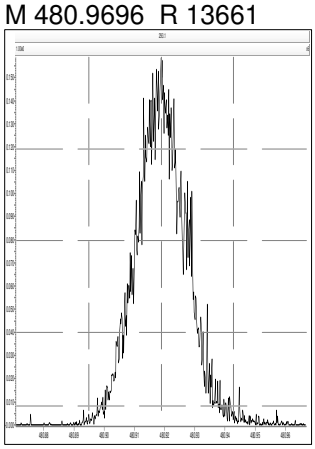
M 454.9728 R 13106



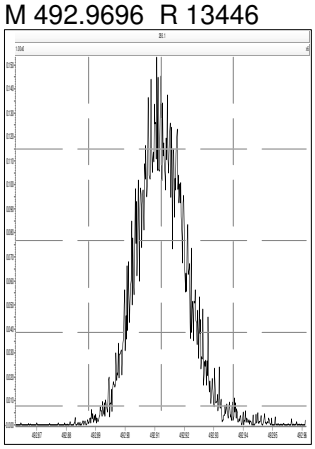
M 466.9728 R 14367



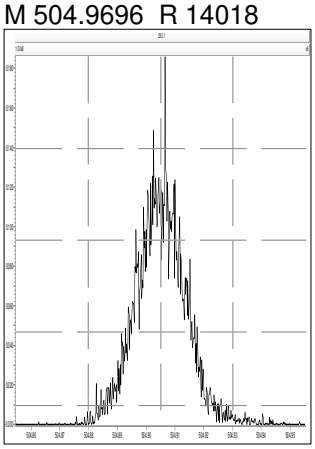
M 480.9696 R 13661



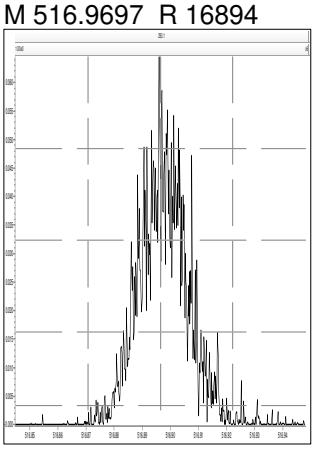
M 492.9696 R 13446



M 504.9696 R 14018



M 516.9697 R 16894



	File Name	Sample ID	File Text	MS File	Inlet File	Vial
1	7-211010A01	H7-21-CCV-603	1613B-CS3+PERF-012	Dioxin_1613B	Dioxin_1613B	Tray1:1
2	7-211010A02	WG3604644-2	LCS	Dioxin_1613B	Dioxin_1613B	Tray1:42
3	7-211010A03	TOLUENE	IB	Dioxin_1613B	Dioxin_1613B	Tray1:2
4	7-211010A04	NONANE	IB	Dioxin_1613B	Dioxin_1613B	Tray1:3
5	7-211010A05	WG3604644-1	MB	Dioxin_1613B	Dioxin_1613B	Tray1:43
6	7-211010A06	L2625533-5	1613	Dioxin_1613B	Dioxin_1613B	Tray1:44
7	7-211010A07	L2625533-6Δ	1613	Dioxin_1613B	Dioxin_1613B	Tray1:45
8	7-211010A08	L2625533-7Δ	1613	Dioxin_1613B	Dioxin_1613B	Tray1:46
9	7-211010A09	L2625533-8Δ	1613	Dioxin_1613B	Dioxin_1613B	Tray1:47
10	7-211010A10	L2625533-13Δ	1613	Dioxin_1613B	Dioxin_1613B	Tray1:48
11	7-211010A11	L2625533-14	1613	Dioxin_1613B	Dioxin_1613B	Tray1:49
12	7-211010A12	L2625533-15	1613	Dioxin_1613B	Dioxin_1613B	Tray1:50
13	7-211010A13	L2625533-16	1613	Dioxin_1613B	Dioxin_1613B	Tray1:51
14	7-211010A14	L2626919-10Δ	X7 DIL re run	Dioxin_1613B	Dioxin_1613B	Tray1:52
15	7-211010A15	L2631201-3Δ	X10 DIL re run	Dioxin_1613B	Dioxin_1613B	Tray1:53
16	7-211010A16	TOLUENE	IB	Dioxin_1613B	Dioxin_1613B	Tray1:2
17	7-211010A17	H7-21-CCV-604	1613B-CS3+PERF-012	Dioxin_1613B	Dioxin_1613B	Tray1:1
18	7-211010A18	WG3603574-2	LCS	Dioxin_1613B	Dioxin_1613B	Tray1:54
19	7-211010A19	WG3596493-2	LCS→	Dioxin_1613B	Dioxin_1613B	Tray1:55
20	7-211010A20	TOLUENE	IB	Dioxin_1613B	Dioxin_1613B	Tray1:2
21	7-211010A21	NONANE	IB	Dioxin_1613B	Dioxin_1613B	Tray1:3
22	7-211010A22	WG3603574-1	MB	Dioxin_1613B	Dioxin_1613B	Tray1:56
23	7-211010A23	WG3596493-1	MB→	Dioxin_1613B	Dioxin_1613B	Tray1:57
24	7-211010A24	L2628076-1Δ	1613	Dioxin_1613B	Dioxin_1613B	Tray1:58
25	7-211010A25	L2628076-2Δ	1613	Dioxin_1613B	Dioxin_1613B	Tray1:59
26	7-211010A26	L2628076-3	1613	Dioxin_1613B	Dioxin_1613B	Tray1:60
27	7-211010A27	L2628076-4	1613	Dioxin_1613B	Dioxin_1613B	Tray1:61
28	7-211010A28	L2625428-2	1613	Dioxin_1613B	Dioxin_1613B	Tray1:62
29	7-211010A29	L2600174-3	1613→	Dioxin_1613B	Dioxin_1613B	Tray1:63
30	7-211010A30	TOLUENE	IB	Dioxin_1613B	Dioxin_1613B	Tray1:2
31	7-211010A31	H7-21-CCV-605	1613B-CS3+PERF-012	Dioxin_1613B	Dioxin_1613B	Tray1:1
32	---	---	---	---	---	---
33	---	---	---	---	---	---
34	---	---	Operator: KB	---	---	---
35	---	---	Detector: 380V	---	---	---
36	---	---	Column : DB5MSUS1331822H	---	---	---
37	---	---	---	---	---	---

VPV
MBV
WinV
RTV
C.CV
IBV
ISV
LmV
↓RecV
NoDilV

Δ-LockmassDins.

CCV603 LowES HxCDD. HxCDF
CCV605 LowES HxCDD.

A24 ReRunat x5 Dil LmDis

*Set to WIP ✓

→ All PCN Vials back in Fridge.

A15 TCDDIS 4.5e4.

A23 mode correction KB 12Oct21

	File Name	Sample ID	File Text	Sample Type	Na Conc Te	Na Conc Pe-Hp	Na Conc Oc	ES Conc Te-Hp	ES Conc Oc	Conc IS	Conc CS
1	7-211010A01	H7-21-CCV-603	1613B-CS3+PERF-012	Analyte	10	50	100	100	200	100	10
2	7-211010A17	H7-21-CCV-604	1613B-CS3+PERF-012	Analyte	10	50	100	100	200	100	10
3	7-211010A31	H7-21-CCV-605	1613B-CS3+PERF-012	Analyte	10	50	100	100	200	100	10
4	7-211010A02	WG3604644-2	LCS	Analyte	200	1000	2000	2000	4000	2000	40
5	7-211010A05	WG3604644-1	MB	Analyte	---	---	---	2000	4000	2000	40
6	7-211010A06	L2625533-5	1613	Analyte	---	---	---	2000	4000	2000	40
7	7-211010A07	L2625533-6	1613	Analyte	---	---	---	2000	4000	2000	40
8	7-211010A08	L2625533-7	1613	Analyte	---	---	---	2000	4000	2000	40
9	7-211010A09	L2625533-8	1613	Analyte	---	---	---	2000	4000	2000	40
10	7-211010A10	L2625533-13	1613	Analyte	---	---	---	2000	4000	2000	40
11	7-211010A11	L2625533-14	1613	Analyte	---	---	---	2000	4000	2000	40
12	7-211010A12	L2625533-15	1613	Analyte	---	---	---	2000	4000	2000	40
13	7-211010A13	L2625533-16	1613	Analyte	---	---	---	2000	4000	2000	40
14	7-211010A14	L2626919-10	X7 DIL re run	Analyte	---	---	---	2000	4000	2000	40
15	7-211010A15	L2631201-3	X10 DIL re run	Analyte	---	---	---	2000	4000	2000	40
16	7-211010A18	WG3603574-2	LCS	Analyte	400	2000	4000	4000	8000	2000	80
17	7-211010A19	WG3596493-2	LCS	Analyte	400	2000	4000	4000	8000	4000	80
18	7-211010A22	WG3603574-1	MB	Analyte	---	---	---	4000	8000	2000	80
19	7-211010A23	WG3596493-2	MB	Analyte	---	---	---	4000	8000	4000	80
20	7-211010A24	L2628076-1	1613	Analyte	---	---	---	2000	4000	2000	40
21	7-211010A25	L2628076-2	1613	Analyte	---	---	---	2000	4000	2000	40
22	7-211010A26	L2628076-3	1613	Analyte	---	---	---	2000	4000	2000	40
23	7-211010A27	L2628076-4	1613	Analyte	---	---	---	2000	4000	2000	40
24	7-211010A28	L2625428-2	1613	Analyte	---	---	---	4000	8000	2000	80
25	7-211010A29	L2600174-3	1613	Analyte	---	---	---	4000	8000	4000	80

Quantify Sample Summary Report **MassLynx MassLynx V4.1 SCN 901**

Dataset: I:\Organics Instrument\HIGHRES GCMS Completed Results Files\HR-7\2021\2110\7-211010A-1015KB.qld

Last Altered: Friday, October 15, 2021 09:46:05 Eastern Daylight Time
Printed: Friday, October 15, 2021 11:39:37 Eastern Daylight Time

Method: C:\MassLynx\Dioxin.PRO\MethDB\Dioxin_1613B.mdb 30 Aug 2021 12:17:57
Calibration: C:\MassLynx\Dioxin.PRO\CurveDB\7-210611A-CAL5-1613.cdb 14 Jun 2021 09:35:05

Name: 7-211010A17, Date: 10-Oct-2021, Time: 19:49:25, ID: H7-21-CCV-604, Description: 1613B-CS3+PERF-012, Vial: Tray1:1

	Target Analyte	#Hom	Total Area	Ion1 Area	Ion2 Area	Ra	Ra Fail=YES	RT	RRT	RT LCL	RT UCL	pg	%Rec	Mod.Comment	Noise 1	Noise 2
1	2378-TCDD		309955	135006	174949	0.77	NO	28.57	1.00	28.54	28.61	8.8855215	88.9		1606	1669
2	12378-PeCDD		1012332	622212	390120	1.59	NO	32.36	1.00	32.33	32.39	51.703429	103.4		4061	5710
3	123478-HxCDD		893070	497403	395667	1.26	NO	34.35	1.00	34.31	34.38	44.454765	88.9		4678	2841
4	123678-HxCDD		1304596	729460	575136	1.27	NO	34.40	1.00	34.37	34.43	55.395744	110.8		4678	2841
5	123789-HxCDD		1188820	659778	529043	1.25	NO	34.53	1.00	34.49	34.56	55.882124	111.8		4678	2841
6	1234678-HpCDD		872968	444638	428330	1.04	NO	36.02	1.00	35.98	36.05	51.401099	102.8		5757	7041
7	OCDD		1186638	551049	635589	0.87	NO	37.55	1.00	37.52	37.58	93.359316	93.4		10416	6527
8	2378-TCDF		452734	204205	248529	0.82	NO	27.66	1.00	27.62	27.69	10.542077	105.4		2310	3231
9	12378-PeCDF		1843281	1135985	707296	1.61	NO	31.46	1.00	31.43	31.50	52.593322	105.2		6373	5447
10	23478-PeCDF		2004254	1242801	761452	1.63	NO	32.15	1.00	32.12	32.19	51.417769	102.8		6373	5447
11	123478-HxCDF		1893079	1062574	830505	1.28	NO	33.88	1.00	33.85	33.91	51.568178	103.1		6117	9843
12	123678-HxCDF		2177155	1226055	951099	1.29	NO	33.94	1.00	33.91	33.98	50.170253	100.3		6117	9843
13	234678-HxCDF		1936122	1085701	850421	1.28	NO	34.26	1.00	34.23	34.29	50.090465	100.2		6117	9843
14	123789-HxCDF		1565150	878904	686246	1.28	NO	34.69	1.00	34.65	34.72	50.608175	101.2		6117	9843
15	1234678-HpCDF		1295134	848843	446292	1.90	NO	35.46	1.00	35.42	35.49	48.430271	96.9		9083	9503
16	1234789-HpCDF		967986	645140	322847	2.00	NO	36.28	1.00	36.25	36.31	50.111869	100.2		9083	9503
17	OCDF		1771877	853878	917999	0.93	NO	37.64	1.00	37.60	37.67	99.012151	99.0		3580	6592
18	13C-2378-TCDD		3004416	1291173	1713243	0.75	NO	28.54	1.03	28.51	28.58	96.452880	96.5		2937	2110
19	13C-12378-PeCDD		1974961	1207181	767781	1.57	NO	32.35	1.16	32.32	32.38	88.328728	88.3		1679	2829
20	13C-123478-HxCDD		1934929	1081065	853863	1.27	NO	34.33	0.99	34.30	34.37	86.126546	86.1		2216	3035
21	13C-123678-HxCDD		2298603	1286234	1012369	1.27	NO	34.39	1.00	34.35	34.42	97.672063	97.7		2216	3035
22	13C-1234678-HpCDD		1632709	836284	796425	1.05	NO	36.02	1.04	35.98	36.05	93.695161	93.7		7408	10252
23	13C-OCDD		2376486	1127060	1249427	0.90	NO	37.54	1.09	37.51	37.57	200.42275	100.2		8380	4703
24	13C-2378-TCDF		4064769	1767494	2297275	0.77	NO	27.64	0.99	27.61	27.67	87.394889	87.4		3960	4031
25	13C-12378-PeCDF		3179715	1957603	1222112	1.60	NO	31.45	1.13	31.42	31.49	86.816018	86.8		2993	4836
26	13C-23478-PeCDF		3198607	1970934	1227673	1.61	NO	32.15	1.16	32.12	32.19	91.924191	91.9		2993	4836
27	13C-123478-HxCDF		2763556	964202	1799354	0.54	NO	33.87	0.98	33.83	33.90	87.223783	87.2		2757	1629
28	13C-123678-HxCDF		3331303	1187648	2143655	0.55	NO	33.93	0.98	33.90	33.97	95.542329	95.5		2757	1629
29	13C-234678-HxCDF		2726557	959224	1767334	0.54	NO	34.25	0.99	34.22	34.28	92.476298	92.5		2757	1629
30	13C-123789-HxCDF		2373154	846001	1527154	0.55	NO	34.67	1.00	34.64	34.71	89.235297	89.2		2757	1629
31	13C-1234678-HpCDF		2488540	780009	1708531	0.46	NO	35.45	1.03	35.41	35.48	102.51805	102.5		4334	3504
32	13C-1234789-HpCDF		1746025	563380	1182645	0.48	NO	36.27	1.05	36.23	36.30	95.141765	95.1		4334	3504
33	13C-1234-TCDD		2647499	1138926	1508573	0.75	NO	27.83	0.00	27.80	27.86	332.98444	333.0		2937	2110
34	13C-123789-HxCDD		2424414	1351110	1073303	1.26	NO	34.52	0.00	34.48	34.55	385.08752	385.1		2216	3035

Quantify Sample Summary Report **MassLynx MassLynx V4.1 SCN 901**

Dataset: I:\Organics Instrument\HIGHRES GCMS Completed Results Files\HR-7\2021\2110\7-211010A-1015KB.qld

Last Altered: Friday, October 15, 2021 09:46:05 Eastern Daylight Time
Printed: Friday, October 15, 2021 11:39:37 Eastern Daylight Time

Name: 7-211010A17, Date: 10-Oct-2021, Time: 19:49:25, ID: H7-21-CCV-604, Description: 1613B-CS3+PERF-012, Vial: Tray1:1

	Target Analyte	#Hom	Total Area	Ion1 Area	Ion2 Area	Ra	Ra Fail=YES	RT	RRT	RT LCL	RT UCL	pg	%Rec	Mod.Comment	Noise 1	Noise 2
35	37Cl-2378-TCDD		291200	291200				28.57	1.00	28.54	28.61	9.1710198	91.7		1678	
36	Total-Tetradioxins	6		600885								39.307366			1606	
37	Total-Pentadioxins	4		1938487								160.41412			4061	
38	Total-Hexadioxins	4		2495507								206.36427			4678	
39	Total-Heptadioxins	2		881569								101.16360			5757	
40	Total-OCDD	1		551049								93.359316			10416	
41	Total-Tetrafurans	8		1006979								52.953963			2310	
42	Total-PeCDF-F1	1		1318541								68.097911			1133	
43	Total-Pentafurans	5		3474667								152.12060			6373	
44	Total-Hexafurans	5		4698771								223.59370			6117	
45	Total-Heptafurans	3		1506189								99.234486			9083	
46	Totals-OCDF	2		854046								99.031570			3580	
47	Totals-37Cl-2378-TCDD	7		295909								9.3193394			1678	

Quantify Sample Summary Report **MassLynx MassLynx V4.1 SCN 901**

Dataset: I:\Organics Instrument\HIGHRES GCMS Completed Results Files\HR-7\2021\2110\7-211010A-1015KB.qld

Last Altered: Friday, October 15, 2021 09:46:05 Eastern Daylight Time
Printed: Friday, October 15, 2021 11:39:37 Eastern Daylight Time

Name: 7-211010A31, Date: 11-Oct-2021, Time: 06:09:56, ID: H7-21-CCV-605, Description: 1613B-CS3+PERF-012, Vial: Tray1:1

	Target Analyte	#Hom	Total Area	Ion1 Area	Ion2 Area	Ra	Ra Fail=YES	RT	RRT	RT LCL	RT UCL	pg	%Rec	Mod.Comment	Noise 1	Noise 2
1	2378-TCDD		297396	134843	162553	0.83	NO	28.57	1.00	28.54	28.61	8.6845599	86.8		1424	1722
2	12378-PeCDD		985981	598608	387374	1.55	NO	32.36	1.00	32.33	32.39	50.788130	101.6		2811	2877
3	123478-HxCDD		866588	516667	349921	1.48	YES	34.35	1.00	34.31	34.38	49.178015	98.4		8152	7629
4	123678-HxCDD		1234319	648680	585638	1.11	NO	34.40	1.00	34.37	34.43	52.125727	104.3		8152	7629
5	123789-HxCDD		1156277	641345	514932	1.25	NO	34.53	1.00	34.49	34.56	57.404605	114.8		8152	7629
6	1234678-HpCDD		856190	452840	403350	1.12	NO	36.03	1.00	35.99	36.06	52.035990	104.1		5338	6489
7	OCDD		1257145	601026	656119	0.92	NO	37.55	1.00	37.52	37.58	95.919227	95.9		5130	6398
8	2378-TCDF		448675	198199	250476	0.79	NO	27.66	1.00	27.62	27.69	10.729694	107.3		1649	2047
9	12378-PeCDF		1784072	1100353	683719	1.61	NO	31.46	1.00	31.43	31.50	51.794641	103.6		6229	4337
10	23478-PeCDF		1927798	1184623	743175	1.59	NO	32.16	1.00	32.13	32.20	50.873438	101.7		6229	4337
11	123478-HxCDF		1733110	962388	770722	1.25	NO	33.88	1.00	33.85	33.91	51.745491	103.5		4443	3012
12	123678-HxCDF		2159864	1211994	947870	1.28	NO	33.94	1.00	33.91	33.98	49.354048	98.7		4443	3012
13	234678-HxCDF		1868878	1064112	804766	1.32	NO	34.27	1.00	34.24	34.30	50.085121	100.2		4443	3012
14	123789-HxCDF		1479227	816737	662490	1.23	NO	34.69	1.00	34.65	34.72	48.916685	97.8		4443	3012
15	1234678-HpCDF		1282795	842923	439873	1.92	NO	35.46	1.00	35.42	35.49	50.526781	101.1		7656	6090
16	1234789-HpCDF		917706	596711	320995	1.86	NO	36.28	1.00	36.25	36.31	48.033698	96.1		7656	6090
17	OCDF		1797525	869574	927951	0.94	NO	37.65	1.00	37.61	37.68	97.411575	97.4		7353	5341
18	13C-2378-TCDD		2949386	1274550	1674836	0.76	NO	28.56	1.03	28.52	28.59	96.688454	96.7		2784	2170
19	13C-12378-PeCDD		1958221	1200623	757597	1.58	NO	32.35	1.16	32.32	32.38	89.431995	89.4		1694	2266
20	13C-123478-HxCDD		1697225	947019	750205	1.26	NO	34.35	0.99	34.31	34.38	77.294833	77.3		4642	1307
21	13C-123678-HxCDD		2311210	1289322	1021888	1.26	NO	34.39	1.00	34.35	34.42	100.48123	100.5		4642	1307
22	13C-1234678-HpCDD		1581791	812466	769325	1.06	NO	36.02	1.04	35.98	36.05	92.874512	92.9		8379	6990
23	13C-OCDD		2450499	1150188	1300311	0.88	NO	37.54	1.09	37.51	37.57	211.44883	105.7		7991	6376
24	13C-2378-TCDF		3957884	1740316	2217568	0.78	NO	27.64	0.99	27.61	27.67	86.896282	86.9		3823	4617
25	13C-12378-PeCDF		3125034	1922241	1202794	1.60	NO	31.45	1.13	31.42	31.49	87.127312	87.1		6124	4916
26	13C-23478-PeCDF		3109510	1903887	1205623	1.58	NO	32.15	1.16	32.12	32.19	91.253324	91.3		6124	4916
27	13C-123478-HxCDF		2521361	878898	1642464	0.54	NO	33.87	0.98	33.83	33.90	81.421817	81.4		7553	5722
28	13C-123678-HxCDF		3359501	1176065	2183436	0.54	NO	33.93	0.98	33.90	33.97	98.581536	98.6		7553	5722
29	13C-234678-HxCDF		2632141	922468	1709673	0.54	NO	34.26	0.99	34.23	34.29	91.340638	91.3		7553	5722
30	13C-123789-HxCDF		2320429	809069	1511361	0.54	NO	34.67	1.00	34.64	34.71	89.272591	89.3		7553	5722
31	13C-1234678-HpCDF		2362558	722370	1640188	0.44	NO	35.46	1.03	35.42	35.49	99.581171	99.6		9281	13103
32	13C-1234789-HpCDF		1726949	519961	1206988	0.43	NO	36.28	1.05	36.25	36.31	96.280694	96.3		9281	13103
33	13C-1234-TCDD		2592674	1121181	1471494	0.76	NO	27.83	0.00	27.80	27.86	326.08894	326.1		2784	2170
34	13C-123789-HxCDD		2369559	1320999	1048560	1.26	NO	34.53	0.00	34.49	34.56	376.37465	376.4		4642	1307
35	37Cl-2378-TCDD		292714	292714				28.57	1.00	28.54	28.61	9.4136419	94.1		1948	
36	Total-Tetradioxins	8		590779								38.928816			1424	
37	Total-Pentadioxins	3		1863276								157.78903			2811	

Dataset: I:\Organics Instrument\HIGHRES GCMS Completed Results Files\HR-7\2021\2110\7-211010A-1015KB.qld

Last Altered: Friday, October 15, 2021 09:46:05 Eastern Daylight Time
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Name: 7-211010A31, Date: 11-Oct-2021, Time: 06:09:56, ID: H7-21-CCV-605, Description: 1613B-CS3+PERF-012, Vial: Tray1:1

	Target Analyte	#Hom	Total Area	Ion1 Area	Ion2 Area	Ra	Ra Fail=YES	RT	RRT	RT LCL	RT UCL	pg	%Rec	Mod.Comment	Noise 1	Noise 2
38	Total-Hexadioxins	4		1883537								161.95395			8152	
39	Total-Heptadioxins	3		875118								102.36573			5338	
40	Total-OCDD	1		601026								95.919227			5130	
41	Total-Tetrafurans	8		960715								51.975998			1649	
42	Total-PeCDF-F1	1		1300720								68.791955			1528	
43	Total-Pentafurans	3		3335766								149.88764			6229	
44	Total-Hexafurans	5		4474816								220.92764			4443	
45	Total-Heptafurans	2		1439634								98.560479			7656	
46	Totals-OCDF	2		870280								97.490506			7353	
47	Totals-37Cl-2378-TCDD	11		298761								9.6081192			1948	

Quantify Sample Summary Report **MassLynx MassLynx V4.1 SCN 901**

Dataset: I:\Organics Instrument\HIGHRES GCMS Completed Results Files\HR-7\2021\2110\7-211010A-1015KB.qld

Last Altered: Friday, October 15, 2021 09:46:05 Eastern Daylight Time
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Name: 7-211010A18, Date: 10-Oct-2021, Time: 20:42:10, ID: WG3603574-2, Description: LCS, Vial: Tray1:54

	Target Analyte	#Hom	Total Area	Ion1 Area	Ion2 Area	Ra	Ra Fail=YES	RT	RRT	RT LCL	RT UCL	pg	%Rec	Mod.Comment	Noise 1	Noise 2
1	2378-TCDD		354827	158213	196614	0.80	NO	28.59	1.00	28.55	28.62	312.66245	78.2		1542	1483
2	12378-PeCDD		1379651	851215	528436	1.61	NO	32.37	1.00	32.34	32.41	2121.9767	106.1		1454	4734
3	123478-HxCDD		902024	502874	399151	1.26	NO	34.36	1.00	34.32	34.39	2029.6268	101.5		2165	2171
4	123678-HxCDD		1160904	647238	513666	1.26	NO	34.40	1.00	34.37	34.43	1826.9911	91.3		2165	2171
5	123789-HxCDD		1180239	660029	520210	1.27	NO	34.54	1.00	34.50	34.57	2240.6142	112.0		2165	2171
6	1234678-HpCDD		716541	369530	347011	1.06	NO	36.03	1.00	35.99	36.06	1840.3252	92.0		5170	5436
7	OCDD		1058747	496011	562736	0.88	NO	37.56	1.00	37.52	37.59	3580.5003	89.5		6617	4509
8	2378-TCDF		585329	266885	318444	0.84	NO	27.68	1.00	27.65	27.72	397.80896	99.5		1637	1792
9	12378-PeCDF		2677386	1656303	1021084	1.62	NO	31.48	1.00	31.44	31.51	2088.9520	104.4		13247	5485
10	23478-PeCDF		2335836	1441495	894341	1.61	NO	32.16	1.00	32.13	32.20	1911.5691	95.6		13247	5485
11	123478-HxCDF		1758272	990987	767285	1.29	NO	33.88	1.00	33.85	33.91	2028.7178	101.4		1633	6485
12	123678-HxCDF		2335252	1332369	1002883	1.33	NO	33.95	1.00	33.92	33.99	1936.5208	96.8		1633	6485
13	234678-HxCDF		1892431	1055532	836899	1.26	NO	34.27	1.00	34.24	34.30	1943.5691	97.2		1633	6485
14	123789-HxCDF		1506224	847772	658453	1.29	NO	34.70	1.00	34.66	34.73	2038.4603	101.9		1633	6485
15	1234678-HpCDF		1206055	798440	407614	1.96	NO	35.47	1.00	35.44	35.50	2049.6256	102.5		11945	7868
16	1234789-HpCDF		841351	562238	279114	2.01	NO	36.29	1.00	36.26	36.32	1953.7045	97.7		11945	7868
17	OCDF		1533422	735549	797873	0.92	NO	37.66	1.00	37.62	37.69	3683.2270	92.1		6380	8373
18	13C-2378-TCDD		3909710	1672984	2236726	0.75	NO	28.56	1.03	28.52	28.59	2467.6290	61.7		3675	2604
19	13C-12378-PeCDD		2623274	1623980	999294	1.63	NO	32.35	1.16	32.32	32.38	2306.5732	57.7		1867	1734
20	13C-123478-HxCDD		1712221	956333	755888	1.27	NO	34.35	0.99	34.31	34.38	2166.9787	54.2		1592	3265
21	13C-123678-HxCDD		2480757	1395588	1085170	1.29	NO	34.40	1.00	34.37	34.43	2997.1846	74.9		1592	3265
22	13C-1234678-HpCDD		1497234	764136	733098	1.04	NO	36.03	1.04	35.99	36.06	2442.9855	61.1		2156	5314
23	13C-OCDD		2211482	1040969	1170513	0.89	NO	37.56	1.09	37.52	37.59	5302.9546	66.3		10015	6499
24	13C-2378-TCDF		5570625	2454118	3116507	0.79	NO	27.66	0.99	27.62	27.69	2354.6930	58.9		3906	3697
25	13C-12378-PeCDF		4651252	2861553	1789699	1.60	NO	31.46	1.13	31.43	31.50	2496.6733	62.4		2821	6177
26	13C-23478-PeCDF		4010826	2471123	1539703	1.60	NO	32.15	1.15	32.12	32.19	2266.1198	56.7		2821	6177
27	13C-123478-HxCDF		2609792	908748	1701044	0.53	NO	33.87	0.98	33.83	33.90	2342.0459	58.6		7437	1302
28	13C-123678-HxCDF		3702907	1301658	2401249	0.54	NO	33.94	0.98	33.91	33.98	3019.5856	75.5		7437	1302
29	13C-234678-HxCDF		2747369	948654	1798716	0.53	NO	34.26	0.99	34.23	34.29	2649.4499	66.2		7437	1302
30	13C-123789-HxCDF		2267974	805485	1462488	0.55	NO	34.69	1.00	34.65	34.72	2424.7755	60.6		7437	1302
31	13C-1234678-HpCDF		2190277	693384	1496894	0.46	NO	35.46	1.03	35.42	35.49	2565.5335	64.1		13099	6773
32	13C-1234789-HpCDF		1557042	491903	1065139	0.46	NO	36.28	1.05	36.25	36.31	2412.3698	60.3		13099	6773
33	13C-1234-TCDD		2693306	1169684	1523622	0.77	NO	27.84	0.00	27.81	27.88	338.74568	16.9		3675	2604
34	13C-123789-HxCDD		1705351	950355	754996	1.26	NO	34.53	0.00	34.49	34.56	270.87354	13.5		1592	3265
35	37Cl-2378-TCDD		43311	43311				28.59	1.00	28.55	28.62	26.816420	33.5		1766	
36	Total-Tetradioxins	2		158537								313.36425			1542	
37	Total-Pentadioxins	2		853343								2127.1825			1454	

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Name: 7-211010A18, Date: 10-Oct-2021, Time: 20:42:10, ID: WG3603574-2, Description: LCS, Vial: Tray1:54

	Target Analyte	#Hom	Total Area	Ion1 Area	Ion2 Area	Ra	Ra Fail=YES	RT	RRT	RT LCL	RT UCL	pg	%Rec	Mod.Comment	Noise 1	Noise 2
38	Total-Hexadioxins	4		1813022								6107.4844			2165	
39	Total-Heptadioxins	2		375000								1870.0107			5170	
40	Total-OCDD	2		496245								3582.1980			6617	
41	Total-Tetrafurans	3		276234								412.15401			1637	
42	Total-PeCDF-F1			0								0.00000000			2759	
43	Total-Pentafurans	8		3184420								4115.7106			13247	
44	Total-Hexafurans	6		4240041								7973.0410			1633	
45	Total-Heptafurans	2		1360678								4003.3301			11945	
46	Totals-OCDF	2		743571								3726.5951			6380	
47	Totals-37Cl-2378-TCDD	16		1228930								760.91147			1766	

Quantify Sample Summary Report **MassLynx MassLynx V4.1 SCN 901**

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Last Altered: Friday, October 15, 2021 09:46:05 Eastern Daylight Time
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Name: 7-211010A22, Date: 10-Oct-2021, Time: 23:34:37, ID: WG3603574-1, Description: MB, Vial: Tray1:56

	Target Analyte	#Hom	Total Area	Ion1 Area	Ion2 Area	Ra	Ra Fail=YES	RT	RRT	RT LCL	RT UCL	pg	%Rec	Mod.Comment	Noise 1	Noise 2
1	2378-TCDD														1347	916
2	12378-PeCDD														1128	1153
3	123478-HxCDD														972	996
4	123678-HxCDD														972	996
5	123789-HxCDD														972	996
6	1234678-HpCDD														798	1194
7	OCDD		883	263	620	0.42	YES	37.56	1.00	37.52	37.59	6.2963313			761	971
8	2378-TCDF														1183	1124
9	12378-PeCDF		476	193	283	0.68	YES	31.45	1.00	31.42	31.49	0.57243078			1490	1474
10	23478-PeCDF														1490	1474
11	123478-HxCDF														1305	1493
12	123678-HxCDF														1305	1493
13	234678-HxCDF		270	121	149	0.81	YES	34.27	1.00	34.24	34.30	0.44966598			1305	1493
14	123789-HxCDF		388	170	218	0.78	YES	34.69	1.00	34.65	34.72	0.89603310			1305	1493
15	1234678-HpCDF														1275	1402
16	1234789-HpCDF														1275	1402
17	OCDF		494	255	240	1.06	YES	37.65	1.00	37.61	37.68	2.5049048			632	745
18	13C-2378-TCDD		2828735	1223506	1605229	0.76	NO	28.56	1.03	28.52	28.59	2024.5352	50.6		2858	2541
19	13C-12378-PeCDD		1682529	1021364	661165	1.54	NO	32.35	1.16	32.32	32.38	1677.5828	41.9		5637	2425
20	13C-123478-HxCDD		1015698	565302	450396	1.26	NO	34.35	0.99	34.31	34.38	1762.4987	44.1		3031	5967
21	13C-123678-HxCDD		1494182	846731	647451	1.31	NO	34.40	1.00	34.37	34.43	2475.1531	61.9		3031	5967
22	13C-1234678-HpCDD		767752	392790	374962	1.05	NO	36.02	1.04	35.98	36.05	1717.5990	42.9		5815	5286
23	13C-OCDD		1048254	493091	555163	0.89	NO	37.55	1.09	37.52	37.58	3446.4365	43.1		4781	4053
24	13C-2378-TCDF		3918110	1715319	2202791	0.78	NO	27.64	0.99	27.61	27.67	1878.0396	47.0		3383	3226
25	13C-12378-PeCDF		3015911	1856967	1158944	1.60	NO	31.46	1.13	31.43	31.50	1835.7268	45.9		2890	2946
26	13C-23478-PeCDF		2672020	1640968	1031052	1.59	NO	32.15	1.15	32.12	32.19	1711.9318	42.8		2890	2946
27	13C-123478-HxCDF		1613638	559036	1054602	0.53	NO	33.87	0.98	33.83	33.90	1985.4776	49.6		1714	1669
28	13C-123678-HxCDF		2328088	833095	1494994	0.56	NO	33.93	0.98	33.90	33.97	2602.9956	65.1		1714	1669
29	13C-234678-HxCDF		1696790	584324	1112466	0.53	NO	34.26	0.99	34.23	34.29	2243.5517	56.1		1714	1669
30	13C-123789-HxCDF		1329273	466027	863246	0.54	NO	34.69	1.00	34.65	34.72	1948.5751	48.7		1714	1669
31	13C-1234678-HpCDF		1247407	382144	865263	0.44	NO	35.46	1.03	35.42	35.49	2003.3467	50.1		7925	3367
32	13C-1234789-HpCDF		807994	247093	560902	0.44	NO	36.28	1.05	36.25	36.31	1716.4111	42.9		7925	3367
33	13C-1234-TCDD		2375133	1030454	1344679	0.77	NO	27.84	0.00	27.81	27.88	298.72806	14.9		2858	2541
34	13C-123789-HxCDD		1243782	692222	551561	1.25	NO	34.53	0.00	34.49	34.56	197.55916	9.9		3031	5967
35	37Cl-2378-TCDD		28594	28594				28.57	1.00	28.54	28.61	20.075910	25.1		1313	
36	Total-Tetradioxins			0											1347	
37	Total-Pentadioxins			0								0.00000000			1128	

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Name: 7-211010A22, Date: 10-Oct-2021, Time: 23:34:37, ID: WG3603574-1, Description: MB, Vial: Tray1:56

	Target Analyte	#Hom	Total Area	Ion1 Area	Ion2 Area	Ra	Ra Fail=YES	RT	RRT	RT LCL	RT UCL	pg	%Rec	Mod.Comment	Noise 1	Noise 2
38	Total-Hexadioxins			0											972	
39	Total-Heptadioxins			0											798	
40	Total-OCDD			0								0.00000000			761	
41	Total-Tetrafurans			0											1183	
42	Total-PeCDF-F1			0											1584	
43	Total-Pentafurans			0								0.00000000			1490	
44	Total-Hexafurans			0								0.00000000			1305	
45	Total-Heptafurans			0											1275	
46	Totals-OCDF			0								0.00000000			632	
47	Totals-37Cl-2378-TCDD	2		29046								20.393710			1313	

Quantify Sample Summary Report **MassLynx MassLynx V4.1 SCN 901**

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Name: 7-211010A28, Date: 11-Oct-2021, Time: 03:58:13, ID: L2625428-2, Description: 1613, Vial: Tray1:62

	Target Analyte	#Hom	Total Area	Ion1 Area	Ion2 Area	Ra	Ra Fail=YES	RT	RRT	RT LCL	RT UCL	pg	%Rec	Mod.Comment	Noise 1	Noise 2
1	2378-TCDD														1187	1571
2	12378-PeCDD		2018	1187	831	1.43	NO	32.38	1.00	32.35	32.42	4.4671594		KB211014MS	1428	2128
3	123478-HxCDD		2121	1019	1102	0.92	YES	34.37	1.00	34.33	34.40	6.5841619		KB211014MS	2457	2886
4	123678-HxCDD		13367	7353	6015	1.22	NO	34.42	1.00	34.39	34.45	32.119990		KB211014MS	2457	2886
5	123789-HxCDD		6840	3907	2933	1.33	NO	34.55	1.00	34.51	34.58	18.995901		KB211014MS	2457	2886
6	1234678-HpCDD		188482	97042	91440	1.06	NO	36.04	1.00	36.00	36.07	808.60160			4884	4040
7	OCDD		1142520	544184	598335	0.91	NO	37.57	1.00	37.53	37.60	7532.5980			4974	5403
8	2378-TCDF		34494	14937	19557	0.76	NO	27.70	1.00	27.67	27.73	32.540106		KB211015MS	3592	2395
9	12378-PeCDF		4141	2816	1325	2.13	YES	31.49	1.00	31.45	31.52	4.9004158			4200	3577
10	23478-PeCDF		6387	3603	2785	1.29	YES	32.18	1.00	32.14	32.21	7.1647004		KB211015MB	4200	3577
11	123478-HxCDF		5099	2791	2308	1.21	NO	33.90	1.00	33.87	33.93	8.1901087			5333	3214
12	123678-HxCDF		3271	1566	1704	0.92	YES	33.96	1.00	33.93	34.00	4.0824281			5333	3214
13	234678-HxCDF		5512	2979	2533	1.18	NO	34.28	1.00	34.25	34.32	7.9015786			5333	3214
14	123789-HxCDF		2739	1372	1366	1.00	YES	34.73	1.00	34.69	34.76	5.3620113			5333	3214
15	1234678-HpCDF		45620	28950	16670	1.74	NO	35.48	1.00	35.45	35.51	121.07761			2052	3338
16	1234789-HpCDF		1497	979	518	1.89	NO	36.30	1.00	36.27	36.33	5.9623773			2052	3338
17	OCDF		67694	32044	35650	0.90	NO	37.66	1.00	37.63	37.70	316.98952			1339	2436
18	13C-2378-TCDD		2965317	1286492	1678825	0.77	NO	28.57	1.03	28.54	28.61	2286.8980	57.2		3794	2269
19	13C-12378-PeCDD		1822438	1104624	717814	1.54	NO	32.37	1.16	32.34	32.41	1958.0180	49.0		1195	1808
20	13C-123478-HxCDD		1241300	693619	547681	1.27	NO	34.37	0.99	34.33	34.40	2012.4810	50.3		1047	1740
21	13C-123678-HxCDD		1624777	907358	717419	1.26	NO	34.41	1.00	34.38	34.44	2514.6826	62.9		1047	1740
22	13C-1234678-HpCDD		896353	466116	430237	1.08	NO	36.04	1.04	36.00	36.07	1873.5714	46.8		5205	4641
23	13C-OCDD		1134367	538115	596252	0.90	NO	37.56	1.09	37.52	37.59	3484.5621	43.6		3489	6995
24	13C-2378-TCDF		4013345	1761086	2252259	0.78	NO	27.67	0.99	27.64	27.70	2072.8947	51.8		3984	3326
25	13C-12378-PeCDF		3066924	1891490	1175434	1.61	NO	31.48	1.13	31.44	31.51	2011.5703	50.3		4680	1771
26	13C-23478-PeCDF		2926104	1810692	1115412	1.62	NO	32.16	1.15	32.13	32.20	2020.1292	50.5		4680	1771
27	13C-123478-HxCDF		1874880	650324	1224556	0.53	NO	33.89	0.98	33.86	33.92	2155.3761	53.9		2305	1752
28	13C-123678-HxCDF		2460038	879100	1580938	0.56	NO	33.95	0.98	33.92	33.99	2569.8424	64.2		2305	1752
29	13C-234678-HxCDF		1968284	689184	1279101	0.54	NO	34.28	0.99	34.25	34.32	2431.5687	60.8		2305	1752
30	13C-123789-HxCDF		1567772	548587	1019185	0.54	NO	34.70	1.00	34.66	34.73	2147.2195	53.7		2305	1752
31	13C-1234678-HpCDF		1402479	450143	952336	0.47	NO	35.48	1.03	35.45	35.51	2104.4328	52.6		4805	8757
32	13C-1234789-HpCDF		907746	279711	628035	0.45	NO	36.30	1.05	36.27	36.33	1801.6391	45.0		4805	8757
33	13C-1234-TCDD		2204171	954463	1249708	0.76	NO	27.86	0.00	27.83	27.89	277.22566	13.9		3794	2269
34	13C-123789-HxCDD		1331232	742157	589075	1.26	NO	34.55	0.00	34.51	34.58	211.44943	10.6		1047	1740
35	37Cl-2378-TCDD		30103	30103				28.60	1.00	28.57	28.63	22.775247	28.5		1621	
36	Total-Tetradioxins	2		3944								10.607212			1187	
37	Total-Pentadioxins	5		7105								26.189067			1428	

Quantify Sample Summary Report **MassLynx MassLynx V4.1 SCN 901**

Dataset: I:\Organics Instrument\HIGHRES GCMS Completed Results Files\HR-7\2021\2110\7-211010A-1015KB.qld

Last Altered: Friday, October 15, 2021 09:46:05 Eastern Daylight Time
Printed: Friday, October 15, 2021 11:39:37 Eastern Daylight Time

Name: 7-211010A28, Date: 11-Oct-2021, Time: 03:58:13, ID: L2625428-2, Description: 1613, Vial: Tray1:62

	Target Analyte	#Hom	Total Area	Ion1 Area	Ion2 Area	Ra	Ra Fail=YES	RT	RRT	RT LCL	RT UCL	pg	%Rec	Mod.Comment	Noise 1	Noise 2
38	Total-Hexadioxins	6		43323								210.88957			2457	
39	Total-Heptadioxins	2		190176								1578.6253			4884	
40	Total-OCDD	1		544184								7532.5980			4974	
41	Total-Tetrafurans	9		41012								88.717165			3592	
42	Total-PeCDF-F1	1		23165								54.174779			1858	
43	Total-Pentafurans	4		15045								27.536286			4200	
44	Total-Hexafurans	6		70439								194.08186			5333	
45	Total-Heptafurans	3		81149								330.16710			2052	
46	Totals-OCDF	1		32044								316.98952			1339	
47	Totals-37Cl-2378-TCDD	18		323650								244.86262			1621	

Quantify Audit Report MassLynx MassLynx V4.1 SCN 901

Dataset: I:\Organics Instrument\HIGHRES GCMS Completed Results Files\HR-7\2021\2110\7-211010A-1015KB.qld

Last Altered: Friday, October 15, 2021 09:46:05 Eastern Daylight Time
Printed: Friday, October 15, 2021 11:39:37 Eastern Daylight Time

Date	Time	Event	Details	Comments
15-Oct-21	09:30:03	Dataset Saved	Saved to 'I:\Organics Instrument\HIGHRES GCMS Complete...	
15-Oct-21	09:30:39	Peak deleted	Sample:7-211010A05, Compound:TF, RT:27.670	
15-Oct-21	09:30:44	Peak deleted	Sample:7-211010A05, Compound:TF, RT:27.641	
15-Oct-21	09:31:27	Pre modification peak	Sample:7-211010A06, Compound:TF, RT:27.670	
15-Oct-21	09:31:27	Peak modified	Sample:7-211010A06, Compound:TF, RT:27.670	KB211015MS
15-Oct-21	09:31:27	Peak added	Sample:7-211010A06, Compound:TF, RT:27.582	KB211015MS
15-Oct-21	09:31:27	Pre modification peak	Sample:7-211010A06, Compound:TF, RT:27.670	
15-Oct-21	09:31:27	Peak modified	Sample:7-211010A06, Compound:TF, RT:27.670	KB211015MS
15-Oct-21	09:31:27	Peak added	Sample:7-211010A06, Compound:TF, RT:27.582	KB211015MS
15-Oct-21	09:32:06	Pre modification peak	Sample:7-211010A07, Compound:TF, RT:27.684	
15-Oct-21	09:32:06	Peak modified	Sample:7-211010A07, Compound:TF, RT:27.684	KB211015MS
15-Oct-21	09:32:06	Peak added	Sample:7-211010A07, Compound:TF, RT:27.597	KB211015MS
15-Oct-21	09:32:42	Pre modification peak	Sample:7-211010A08, Compound:TF, RT:27.713	
15-Oct-21	09:32:42	Peak modified	Sample:7-211010A08, Compound:TF, RT:27.713	KB211015MS
15-Oct-21	09:32:42	Peak added	Sample:7-211010A08, Compound:TF, RT:27.626	KB211015MS
15-Oct-21	09:32:42	Peak deleted	Sample:7-211010A08, Compound:TF, RT:22.780	KB211015MS
15-Oct-21	09:32:42	Pre modification peak	Sample:7-211010A08, Compound:TF, RT:27.713	
15-Oct-21	09:32:42	Peak modified	Sample:7-211010A08, Compound:TF, RT:27.713	KB211015MS
15-Oct-21	09:32:42	Peak added	Sample:7-211010A08, Compound:TF, RT:27.626	KB211015MS
15-Oct-21	09:32:52	Peak deleted	Sample:7-211010A09, Compound:TF, RT:29.663	
15-Oct-21	09:33:15	Pre modification peak	Sample:7-211010A10, Compound:TF, RT:27.728	
15-Oct-21	09:33:15	Peak modified	Sample:7-211010A10, Compound:TF, RT:27.728	KB211015MS
15-Oct-21	09:33:15	Peak added	Sample:7-211010A10, Compound:TF, RT:27.641	KB211015MS
15-Oct-21	09:33:15	Pre modification peak	Sample:7-211010A10, Compound:TF, RT:27.728	
15-Oct-21	09:33:15	Peak modified	Sample:7-211010A10, Compound:TF, RT:27.728	KB211015MS
15-Oct-21	09:33:15	Peak added	Sample:7-211010A10, Compound:TF, RT:27.641	KB211015MS
15-Oct-21	09:33:40	Pre modification peak	Sample:7-211010A11, Compound:TF, RT:27.699	
15-Oct-21	09:33:40	Peak modified	Sample:7-211010A11, Compound:TF, RT:27.699	KB211015MS
15-Oct-21	09:33:40	Peak added	Sample:7-211010A11, Compound:TF, RT:27.626	KB211015MS
15-Oct-21	09:33:54	Pre modification peak	Sample:7-211010A12, Compound:TF, RT:24.846	
15-Oct-21	09:33:54	Peak modified	Sample:7-211010A12, Compound:TF, RT:24.846	KB211015MJ
15-Oct-21	09:33:54	Pre modification peak	Sample:7-211010A12, Compound:TF, RT:21.543	
15-Oct-21	09:33:54	Peak modified	Sample:7-211010A12, Compound:TF, RT:21.543	KB211015MJ
15-Oct-21	09:34:21	Pre modification peak	Sample:7-211010A13, Compound:TF, RT:27.699	
15-Oct-21	09:34:21	Peak modified	Sample:7-211010A13, Compound:TF, RT:27.699	KB211015MS
15-Oct-21	09:34:21	Peak added	Sample:7-211010A13, Compound:TF, RT:27.641	KB211015MS
15-Oct-21	09:34:21	Pre modification peak	Sample:7-211010A13, Compound:TF, RT:27.699	
15-Oct-21	09:34:21	Peak modified	Sample:7-211010A13, Compound:TF, RT:27.699	KB211015MS
15-Oct-21	09:34:21	Peak added	Sample:7-211010A13, Compound:TF, RT:27.641	KB211015MS
15-Oct-21	09:34:57	Pre modification peak	Sample:7-211010A14, Compound:TF, RT:25.239	
15-Oct-21	09:34:57	Peak modified	Sample:7-211010A14, Compound:TF, RT:25.239	KB211015MJ
15-Oct-21	09:34:57	Pre modification peak	Sample:7-211010A14, Compound:TF, RT:21.543	
15-Oct-21	09:34:57	Peak modified	Sample:7-211010A14, Compound:TF, RT:21.543	KB211015MJ
15-Oct-21	09:34:57	Pre modification peak	Sample:7-211010A14, Compound:TF, RT:21.543	
15-Oct-21	09:34:57	Peak modified	Sample:7-211010A14, Compound:TF, RT:21.543	KB211015MJ
15-Oct-21	09:34:57	Pre modification peak	Sample:7-211010A14, Compound:TF, RT:27.815	
15-Oct-21	09:34:57	Peak modified	Sample:7-211010A14, Compound:TF, RT:27.815	KB211015MJ
15-Oct-21	09:35:08	Peak deleted	Sample:7-211010A18, Compound:TF, RT:22.474	
15-Oct-21	09:35:21	Peak deleted	Sample:7-211010A22, Compound:TF, RT:27.801	
15-Oct-21	09:35:21	Peak deleted	Sample:7-211010A22, Compound:TF, RT:27.786	
15-Oct-21	09:35:36	Peak deleted	Sample:7-211010A24, Compound:TF, RT:23.231	
15-Oct-21	09:35:36	Peak deleted	Sample:7-211010A24, Compound:TF, RT:22.794	
15-Oct-21	09:35:36	Peak deleted	Sample:7-211010A24, Compound:TF, RT:29.591	

Quantify Audit Report MassLynx MassLynx V4.1 SCN 901

Dataset: I:\Organics Instrument\HIGHRES GCMS Completed Results Files\HR-7\2021\2110\7-211010A-1015KB.qld

Last Altered: Friday, October 15, 2021 09:46:05 Eastern Daylight Time
Printed: Friday, October 15, 2021 11:39:37 Eastern Daylight Time

Date	Time	Event	Details	Comments
15-Oct-21	09:36:06	Pre modification peak	Sample:7-211010A24, Compound:TF, RT:27.815	
15-Oct-21	09:36:06	Peak modified	Sample:7-211010A24, Compound:TF, RT:27.815	KB211015MS
15-Oct-21	09:36:06	Peak added	Sample:7-211010A24, Compound:TF, RT:27.699	KB211015MS
15-Oct-21	09:36:06	Pre modification peak	Sample:7-211010A24, Compound:TF, RT:27.815	
15-Oct-21	09:36:06	Peak modified	Sample:7-211010A24, Compound:TF, RT:27.815	KB211015MS
15-Oct-21	09:36:06	Peak added	Sample:7-211010A24, Compound:TF, RT:27.684	KB211015MS
15-Oct-21	09:36:24	Peak deleted	Sample:7-211010A25, Compound:TF, RT:29.605	
15-Oct-21	09:36:35	Pre modification peak	Sample:7-211010A26, Compound:TF, RT:27.684	
15-Oct-21	09:36:35	Peak modified	Sample:7-211010A26, Compound:TF, RT:27.684	KB211015MS
15-Oct-21	09:36:35	Peak added	Sample:7-211010A26, Compound:TF, RT:27.611	KB211015MS
15-Oct-21	09:36:55	Pre modification peak	Sample:7-211010A27, Compound:TF, RT:26.767	
15-Oct-21	09:36:55	Peak modified	Sample:7-211010A27, Compound:TF, RT:26.767	KB211015MB
15-Oct-21	09:36:55	Pre modification peak	Sample:7-211010A27, Compound:TF, RT:25.167	
15-Oct-21	09:36:55	Peak modified	Sample:7-211010A27, Compound:TF, RT:25.167	KB211015MB
15-Oct-21	09:36:55	Pre modification peak	Sample:7-211010A27, Compound:TF, RT:27.684	
15-Oct-21	09:36:55	Peak modified	Sample:7-211010A27, Compound:TF, RT:27.684	KB211015MB
15-Oct-21	09:37:05	Peak deleted	Sample:7-211010A28, Compound:TF, RT:23.187	
15-Oct-21	09:37:05	Peak deleted	Sample:7-211010A28, Compound:TF, RT:22.489	
15-Oct-21	09:37:05	Peak deleted	Sample:7-211010A28, Compound:TF, RT:29.591	
15-Oct-21	09:37:39	Pre modification peak	Sample:7-211010A28, Compound:TF, RT:25.472	
15-Oct-21	09:37:39	Peak modified	Sample:7-211010A28, Compound:TF, RT:25.472	KB211015MS
15-Oct-21	09:37:39	Peak deleted	Sample:7-211010A28, Compound:TF, RT:25.356	KB211015MS
15-Oct-21	09:37:39	Pre modification peak	Sample:7-211010A28, Compound:TF, RT:27.684	
15-Oct-21	09:37:39	Peak modified	Sample:7-211010A28, Compound:TF, RT:27.684	KB211015MS
15-Oct-21	09:37:39	Peak added	Sample:7-211010A28, Compound:TF, RT:27.582	KB211015MS
15-Oct-21	09:37:39	Pre modification peak	Sample:7-211010A28, Compound:TF, RT:24.832	
15-Oct-21	09:37:39	Peak modified	Sample:7-211010A28, Compound:TF, RT:24.832	KB211015MS
15-Oct-21	09:37:39	Peak deleted	Sample:7-211010A28, Compound:TF, RT:24.744	KB211015MS
15-Oct-21	09:37:39	Pre modification peak	Sample:7-211010A28, Compound:TF, RT:25.734	
15-Oct-21	09:37:39	Peak modified	Sample:7-211010A28, Compound:TF, RT:25.734	KB211015MS
15-Oct-21	09:37:39	Peak deleted	Sample:7-211010A28, Compound:TF, RT:25.734	KB211015MS
15-Oct-21	09:37:39	Peak deleted	Sample:7-211010A28, Compound:TF, RT:25.632	KB211015MS
15-Oct-21	09:37:39	Pre modification peak	Sample:7-211010A28, Compound:TF, RT:25.487	
15-Oct-21	09:37:39	Peak modified	Sample:7-211010A28, Compound:TF, RT:25.487	KB211015MS
15-Oct-21	09:37:54	Peak added	Sample:7-211010A29, Compound:TF, RT:24.584	KB211015MA
15-Oct-21	09:38:40	Pre modification peak	Sample:7-211010A11, Compound:PF-f2, RT:31.760	
15-Oct-21	09:38:40	Peak modified	Sample:7-211010A11, Compound:PF-f2, RT:31.760	KB211015MB
15-Oct-21	09:38:40	Pre modification peak	Sample:7-211010A11, Compound:PF-f2, RT:32.165	
15-Oct-21	09:38:40	Peak modified	Sample:7-211010A11, Compound:PF-f2, RT:32.165	KB211015MB
15-Oct-21	09:38:40	Peak added	Sample:7-211010A11, Compound:PF-f2, RT:31.486	KB211015MB
15-Oct-21	09:38:40	Peak added	Sample:7-211010A11, Compound:PF-f2, RT:31.661	KB211015MB
15-Oct-21	09:39:13	Peak deleted	Sample:7-211010A23, Compound:PF-f2, RT:32.132	
15-Oct-21	09:39:13	Peak deleted	Sample:7-211010A23, Compound:PF-f2, RT:32.153	
15-Oct-21	09:40:15	Pre modification peak	Sample:7-211010A27, Compound:PF-f2, RT:32.175	
15-Oct-21	09:40:15	Peak modified	Sample:7-211010A27, Compound:PF-f2, RT:32.175	KB211015MB
15-Oct-21	09:40:15	Pre modification peak	Sample:7-211010A27, Compound:PF-f2, RT:31.486	
15-Oct-21	09:40:15	Peak modified	Sample:7-211010A27, Compound:PF-f2, RT:31.486	KB211015MB
15-Oct-21	09:40:15	Peak deleted	Sample:7-211010A27, Compound:PF-f2, RT:29.790	KB211015MB
15-Oct-21	09:40:15	Pre modification peak	Sample:7-211010A27, Compound:PF-f2, RT:30.786	
15-Oct-21	09:40:15	Peak modified	Sample:7-211010A27, Compound:PF-f2, RT:30.786	KB211015MB
15-Oct-21	09:40:15	Peak added	Sample:7-211010A27, Compound:PF-f2, RT:31.530	KB211015MB
15-Oct-21	09:40:15	Pre modification peak	Sample:7-211010A27, Compound:PF-f2, RT:32.165	
15-Oct-21	09:40:15	Peak modified	Sample:7-211010A27, Compound:PF-f2, RT:32.165	KB211015MB

Quantify Audit Report MassLynx MassLynx V4.1 SCN 901

Dataset: I:\Organics Instrument\HIGHRES GCMS Completed Results Files\HR-7\2021\2110\7-211010A-1015KB.qld

Last Altered: Friday, October 15, 2021 09:46:05 Eastern Daylight Time
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Date	Time	Event	Details	Comments
15-Oct-21	09:40:38	Pre modification peak	Sample:7-211010A28, Compound:PF-f2, RT:29.790	
15-Oct-21	09:40:38	Peak modified	Sample:7-211010A28, Compound:PF-f2, RT:29.790	KB211015MB
15-Oct-21	09:40:38	Pre modification peak	Sample:7-211010A28, Compound:PF-f2, RT:31.355	
15-Oct-21	09:40:38	Peak modified	Sample:7-211010A28, Compound:PF-f2, RT:31.355	KB211015MB
15-Oct-21	09:40:38	Pre modification peak	Sample:7-211010A28, Compound:PF-f2, RT:32.175	
15-Oct-21	09:40:38	Peak modified	Sample:7-211010A28, Compound:PF-f2, RT:32.175	KB211015MB
15-Oct-21	09:40:38	Pre modification peak	Sample:7-211010A28, Compound:PF-f2, RT:32.077	
15-Oct-21	09:40:38	Peak modified	Sample:7-211010A28, Compound:PF-f2, RT:32.077	KB211015MB
15-Oct-21	09:41:16	Peak deleted	Sample:7-211010A05, Compound:HXF, RT:34.218	
15-Oct-21	09:41:16	Peak deleted	Sample:7-211010A05, Compound:HXF, RT:34.261	
15-Oct-21	09:41:34	Pre modification peak	Sample:7-211010A08, Compound:HXF, RT:34.271	
15-Oct-21	09:41:34	Peak modified	Sample:7-211010A08, Compound:HXF, RT:34.271	KB211015MB
15-Oct-21	09:41:34	Pre modification peak	Sample:7-211010A08, Compound:HXF, RT:34.250	
15-Oct-21	09:41:34	Peak modified	Sample:7-211010A08, Compound:HXF, RT:34.250	KB211015MB
15-Oct-21	09:42:44	Pre modification peak	Sample:7-211010A26, Compound:HXF, RT:34.271	
15-Oct-21	09:42:44	Peak modified	Sample:7-211010A26, Compound:HXF, RT:34.271	KB211015MS
15-Oct-21	09:42:44	Peak added	Sample:7-211010A26, Compound:HXF, RT:34.250	KB211015MS
15-Oct-21	09:43:00	Pre modification peak	Sample:7-211010A27, Compound:HXF, RT:34.271	
15-Oct-21	09:43:00	Peak modified	Sample:7-211010A27, Compound:HXF, RT:34.271	KB211015MS
15-Oct-21	09:43:00	Peak added	Sample:7-211010A27, Compound:HXF, RT:34.250	KB211015MS
15-Oct-21	09:43:32	Peak deleted	Sample:7-211010A02, Compound:HPF, RT:36.749	
15-Oct-21	09:43:32	Peak deleted	Sample:7-211010A02, Compound:HPF, RT:36.684	
15-Oct-21	09:43:32	Peak deleted	Sample:7-211010A02, Compound:HPF, RT:36.520	
15-Oct-21	09:43:32	Peak deleted	Sample:7-211010A02, Compound:HPF, RT:36.202	
15-Oct-21	09:43:32	Peak deleted	Sample:7-211010A02, Compound:HPF, RT:36.137	
15-Oct-21	09:43:32	Peak deleted	Sample:7-211010A02, Compound:HPF, RT:36.038	
15-Oct-21	09:43:32	Peak deleted	Sample:7-211010A02, Compound:HPF, RT:35.896	
15-Oct-21	09:43:32	Peak deleted	Sample:7-211010A02, Compound:HPF, RT:35.841	
15-Oct-21	09:43:40	Peak deleted	Sample:7-211010A06, Compound:HPF, RT:36.487	
15-Oct-21	09:43:40	Peak deleted	Sample:7-211010A06, Compound:HPF, RT:36.049	
15-Oct-21	09:43:40	Peak deleted	Sample:7-211010A06, Compound:HPF, RT:35.940	
15-Oct-21	09:43:47	Peak deleted	Sample:7-211010A07, Compound:HPF, RT:36.191	
15-Oct-21	09:43:47	Peak deleted	Sample:7-211010A07, Compound:HPF, RT:36.147	
15-Oct-21	09:43:47	Peak deleted	Sample:7-211010A07, Compound:HPF, RT:36.038	
15-Oct-21	09:43:47	Peak deleted	Sample:7-211010A07, Compound:HPF, RT:35.994	
15-Oct-21	09:43:47	Peak deleted	Sample:7-211010A07, Compound:HPF, RT:35.929	
15-Oct-21	09:43:47	Peak deleted	Sample:7-211010A07, Compound:HPF, RT:35.819	
15-Oct-21	09:43:47	Peak deleted	Sample:7-211010A07, Compound:HPF, RT:36.618	
15-Oct-21	09:43:51	Peak deleted	Sample:7-211010A08, Compound:HPF, RT:36.038	
15-Oct-21	09:43:57	Peak deleted	Sample:7-211010A09, Compound:HPF, RT:36.530	
15-Oct-21	09:43:57	Peak deleted	Sample:7-211010A09, Compound:HPF, RT:36.388	
15-Oct-21	09:43:57	Peak deleted	Sample:7-211010A09, Compound:HPF, RT:36.202	
15-Oct-21	09:43:57	Peak deleted	Sample:7-211010A09, Compound:HPF, RT:36.137	
15-Oct-21	09:43:57	Peak deleted	Sample:7-211010A09, Compound:HPF, RT:36.016	
15-Oct-21	09:43:57	Peak deleted	Sample:7-211010A09, Compound:HPF, RT:36.651	
15-Oct-21	09:44:05	Peak deleted	Sample:7-211010A10, Compound:HPF, RT:36.159	
15-Oct-21	09:44:05	Peak deleted	Sample:7-211010A10, Compound:HPF, RT:36.060	
15-Oct-21	09:44:05	Peak deleted	Sample:7-211010A10, Compound:HPF, RT:35.929	
15-Oct-21	09:44:05	Peak deleted	Sample:7-211010A10, Compound:HPF, RT:35.830	
15-Oct-21	09:44:20	Pre modification peak	Sample:7-211010A12, Compound:HPF, RT:35.042	
15-Oct-21	09:44:20	Peak modified	Sample:7-211010A12, Compound:HPF, RT:35.042	
15-Oct-21	09:44:20	Peak deleted	Sample:7-211010A12, Compound:HPF, RT:36.060	
15-Oct-21	09:44:20	Peak deleted	Sample:7-211010A12, Compound:HPF, RT:35.994	

Quantify Audit Report MassLynx MassLynx V4.1 SCN 901

Dataset: I:\Organics Instrument\HIGHRES GCMS Completed Results Files\HR-7\2021\2110\7-211010A-1015KB.qld

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Printed: Friday, October 15, 2021 11:39:37 Eastern Daylight Time

Date	Time	Event	Details	Comments
15-Oct-21	09:44:20	Peak deleted	Sample:7-211010A12, Compound:HPF, RT:35.852	
15-Oct-21	09:44:28	Peak deleted	Sample:7-211010A13, Compound:HPF, RT:36.333	
15-Oct-21	09:44:28	Peak deleted	Sample:7-211010A13, Compound:HPF, RT:35.983	
15-Oct-21	09:44:28	Peak deleted	Sample:7-211010A13, Compound:HPF, RT:35.951	
15-Oct-21	09:44:35	Peak deleted	Sample:7-211010A18, Compound:HPF, RT:36.071	
15-Oct-21	09:44:53	Peak deleted	Sample:7-211010A24, Compound:HPF, RT:36.191	
15-Oct-21	09:44:53	Peak deleted	Sample:7-211010A24, Compound:HPF, RT:36.147	
15-Oct-21	09:44:53	Peak deleted	Sample:7-211010A24, Compound:HPF, RT:36.049	
15-Oct-21	09:44:53	Peak deleted	Sample:7-211010A24, Compound:HPF, RT:35.983	
15-Oct-21	09:44:53	Peak deleted	Sample:7-211010A24, Compound:HPF, RT:35.294	
15-Oct-21	09:44:53	Peak deleted	Sample:7-211010A24, Compound:HPF, RT:35.075	
15-Oct-21	09:44:53	Peak deleted	Sample:7-211010A24, Compound:HPF, RT:36.673	
15-Oct-21	09:44:53	Peak deleted	Sample:7-211010A24, Compound:HPF, RT:36.607	
15-Oct-21	09:44:53	Peak deleted	Sample:7-211010A24, Compound:HPF, RT:36.574	
15-Oct-21	09:44:53	Peak deleted	Sample:7-211010A24, Compound:HPF, RT:36.509	
15-Oct-21	09:44:59	Peak deleted	Sample:7-211010A25, Compound:HPF, RT:36.082	
15-Oct-21	09:44:59	Peak deleted	Sample:7-211010A25, Compound:HPF, RT:36.049	
15-Oct-21	09:44:59	Peak deleted	Sample:7-211010A25, Compound:HPF, RT:35.951	
15-Oct-21	09:44:59	Peak deleted	Sample:7-211010A25, Compound:HPF, RT:35.885	
15-Oct-21	09:45:06	Peak deleted	Sample:7-211010A26, Compound:HPF, RT:36.651	
15-Oct-21	09:45:06	Peak deleted	Sample:7-211010A26, Compound:HPF, RT:36.563	
15-Oct-21	09:45:06	Peak deleted	Sample:7-211010A26, Compound:HPF, RT:35.918	
15-Oct-21	09:45:06	Peak deleted	Sample:7-211010A26, Compound:HPF, RT:35.830	
15-Oct-21	09:45:15	Peak deleted	Sample:7-211010A27, Compound:HPF, RT:36.279	
15-Oct-21	09:45:20	Peak deleted	Sample:7-211010A27, Compound:HPF, RT:36.279	
15-Oct-21	09:45:28	Peak deleted	Sample:7-211010A28, Compound:HPF, RT:36.366	
15-Oct-21	09:45:28	Peak deleted	Sample:7-211010A28, Compound:HPF, RT:35.972	
15-Oct-21	09:46:04	Peak deleted	Sample:7-211010A27, Compound:OCF, RT:36.841	KB211015MJ
15-Oct-21	09:46:04	Pre modification peak	Sample:7-211010A27, Compound:OCF, RT:37.647	
15-Oct-21	09:46:04	Peak modified	Sample:7-211010A27, Compound:OCF, RT:37.647	KB211015MJ
15-Oct-21	09:46:10	Dataset Saved	Saved to 'I:\Organics Instrument\HIGHRES GCMS Complete...	
12-Oct-21	11:05:28	Process Extract		
12-Oct-21	11:05:29	Process Integrate		
12-Oct-21	11:05:29	Process Quantify		
12-Oct-21	11:05:29	Dataset Created		
12-Oct-21	11:13:57	Pre modification peak	Sample:7-211010A01, Compound:HXD, RT:34.526	
12-Oct-21	11:13:57	Peak modified	Sample:7-211010A01, Compound:HXD, RT:34.526	KB211012MB
12-Oct-21	11:13:57	Pre modification peak	Sample:7-211010A01, Compound:HXD, RT:34.526	
12-Oct-21	11:13:57	Peak modified	Sample:7-211010A01, Compound:HXD, RT:34.526	KB211012MB
12-Oct-21	11:19:16	Dataset Saved	Saved to 'C:\MassLynx\Dioxin.PRO\Results Files\7-211010A....	
12-Oct-21	11:19:30	Dataset Saved	Saved to 'I:\Organics Instrument\HIGHRES GCMS Complete...	
14-Oct-21	17:05:00	Dataset Saved	Saved to 'I:\Organics Instrument\HIGHRES GCMS Complete...	
14-Oct-21	17:07:23	Peak added	Sample:7-211010A06, Compound:TF, RT:25.530	
14-Oct-21	17:07:23	Peak added	Sample:7-211010A06, Compound:TF, RT:27.029	
14-Oct-21	17:07:23	Peak added	Sample:7-211010A06, Compound:TF, RT:29.314	
14-Oct-21	17:07:23	Pre modification peak	Sample:7-211010A06, Compound:TF, RT:25.458	
14-Oct-21	17:07:23	Peak modified	Sample:7-211010A06, Compound:TF, RT:25.458	
14-Oct-21	17:07:23	Peak deleted	Sample:7-211010A06, Compound:TF, RT:25.530	
14-Oct-21	17:07:23	Peak deleted	Sample:7-211010A06, Compound:TF, RT:29.402	
14-Oct-21	17:07:23	Peak deleted	Sample:7-211010A06, Compound:TF, RT:29.329	
14-Oct-21	17:07:23	Peak deleted	Sample:7-211010A06, Compound:TF, RT:27.029	
14-Oct-21	17:07:44	Peak added	Sample:7-211010A07, Compound:TF, RT:25.545	
14-Oct-21	17:07:44	Peak added	Sample:7-211010A07, Compound:TF, RT:27.029	

Quantify Audit Report MassLynx MassLynx V4.1 SCN 901

Dataset: I:\Organics Instrument\HIGHRES GCMS Completed Results Files\HR-7\2021\2110\7-211010A-1015KB.qld

Last Altered: Friday, October 15, 2021 09:46:05 Eastern Daylight Time
Printed: Friday, October 15, 2021 11:39:37 Eastern Daylight Time

Date	Time	Event	Details	Comments
14-Oct-21	17:07:44	Peak added	Sample:7-211010A07, Compound:TF, RT:29.314	
14-Oct-21	17:07:44	Peak deleted	Sample:7-211010A07, Compound:TF, RT:25.545	
14-Oct-21	17:07:44	Peak deleted	Sample:7-211010A07, Compound:TF, RT:27.044	
14-Oct-21	17:07:44	Pre modification peak	Sample:7-211010A07, Compound:TF, RT:25.472	
14-Oct-21	17:07:44	Peak modified	Sample:7-211010A07, Compound:TF, RT:25.472	
14-Oct-21	17:07:44	Peak deleted	Sample:7-211010A07, Compound:TF, RT:29.402	
14-Oct-21	17:07:44	Peak deleted	Sample:7-211010A07, Compound:TF, RT:29.329	
14-Oct-21	17:08:03	Peak added	Sample:7-211010A08, Compound:TF, RT:25.574	
14-Oct-21	17:08:03	Peak added	Sample:7-211010A08, Compound:TF, RT:27.059	
14-Oct-21	17:08:03	Peak added	Sample:7-211010A08, Compound:TF, RT:29.343	
14-Oct-21	17:08:03	Peak deleted	Sample:7-211010A08, Compound:TF, RT:25.589	
14-Oct-21	17:08:03	Peak deleted	Sample:7-211010A08, Compound:TF, RT:29.358	
14-Oct-21	17:08:03	Peak deleted	Sample:7-211010A08, Compound:TF, RT:27.073	
14-Oct-21	17:08:03	Peak deleted	Sample:7-211010A08, Compound:TF, RT:29.431	
14-Oct-21	17:08:19	Peak added	Sample:7-211010A09, Compound:TF, RT:25.589	
14-Oct-21	17:08:19	Peak added	Sample:7-211010A09, Compound:TF, RT:27.073	
14-Oct-21	17:08:19	Peak added	Sample:7-211010A09, Compound:TF, RT:29.416	
14-Oct-21	17:08:19	Peak deleted	Sample:7-211010A09, Compound:TF, RT:27.073	
14-Oct-21	17:08:19	Peak deleted	Sample:7-211010A09, Compound:TF, RT:25.589	
14-Oct-21	17:08:19	Peak deleted	Sample:7-211010A09, Compound:TF, RT:29.431	
14-Oct-21	17:08:19	Peak deleted	Sample:7-211010A09, Compound:TF, RT:29.358	
14-Oct-21	17:08:45	Peak added	Sample:7-211010A10, Compound:TF, RT:25.574	
14-Oct-21	17:08:45	Peak added	Sample:7-211010A10, Compound:TF, RT:27.059	
14-Oct-21	17:08:45	Peak added	Sample:7-211010A10, Compound:TF, RT:29.343	
14-Oct-21	17:08:45	Peak added	Sample:7-211010A10, Compound:TF, RT:29.416	
14-Oct-21	17:08:45	Peak deleted	Sample:7-211010A10, Compound:TF, RT:25.589	
14-Oct-21	17:08:45	Peak deleted	Sample:7-211010A10, Compound:TF, RT:27.059	
14-Oct-21	17:08:45	Pre modification peak	Sample:7-211010A10, Compound:TF, RT:25.501	
14-Oct-21	17:08:45	Peak modified	Sample:7-211010A10, Compound:TF, RT:25.501	
14-Oct-21	17:08:45	Peak deleted	Sample:7-211010A10, Compound:TF, RT:29.431	
14-Oct-21	17:08:45	Peak deleted	Sample:7-211010A10, Compound:TF, RT:29.358	
14-Oct-21	17:09:04	Peak added	Sample:7-211010A12, Compound:TF, RT:25.545	
14-Oct-21	17:09:04	Peak added	Sample:7-211010A12, Compound:TF, RT:27.015	
14-Oct-21	17:09:04	Peak added	Sample:7-211010A12, Compound:TF, RT:29.314	
14-Oct-21	17:09:04	Peak deleted	Sample:7-211010A12, Compound:TF, RT:27.029	
14-Oct-21	17:09:04	Peak deleted	Sample:7-211010A12, Compound:TF, RT:25.559	
14-Oct-21	17:09:04	Peak deleted	Sample:7-211010A12, Compound:TF, RT:29.402	
14-Oct-21	17:09:04	Peak deleted	Sample:7-211010A12, Compound:TF, RT:29.343	
14-Oct-21	17:09:17	Peak added	Sample:7-211010A13, Compound:TF, RT:25.589	
14-Oct-21	17:09:17	Peak added	Sample:7-211010A13, Compound:TF, RT:27.059	
14-Oct-21	17:09:17	Peak added	Sample:7-211010A13, Compound:TF, RT:29.329	
14-Oct-21	17:09:17	Peak deleted	Sample:7-211010A13, Compound:TF, RT:27.073	
14-Oct-21	17:09:17	Peak deleted	Sample:7-211010A13, Compound:TF, RT:25.589	
14-Oct-21	17:09:17	Peak deleted	Sample:7-211010A13, Compound:TF, RT:29.416	
14-Oct-21	17:09:17	Peak deleted	Sample:7-211010A13, Compound:TF, RT:29.343	
14-Oct-21	17:09:23	Peak added	Sample:7-211010A14, Compound:TF, RT:27.088	
14-Oct-21	17:09:48	Peak added	Sample:7-211010A24, Compound:TF, RT:25.603	
14-Oct-21	17:09:48	Peak added	Sample:7-211010A24, Compound:TF, RT:27.073	
14-Oct-21	17:09:48	Peak added	Sample:7-211010A24, Compound:TF, RT:29.431	
14-Oct-21	17:09:48	Peak deleted	Sample:7-211010A24, Compound:TF, RT:25.603	
14-Oct-21	17:09:48	Peak deleted	Sample:7-211010A24, Compound:TF, RT:29.445	
14-Oct-21	17:09:48	Peak deleted	Sample:7-211010A24, Compound:TF, RT:29.372	
14-Oct-21	17:09:48	Peak deleted	Sample:7-211010A24, Compound:TF, RT:27.088	

Date	Time	Event	Details	Comments
14-Oct-21	17:10:15	Peak added	Sample:7-211010A25, Compound:TF, RT:25.530	
14-Oct-21	17:10:15	Peak added	Sample:7-211010A25, Compound:TF, RT:27.029	
14-Oct-21	17:10:15	Peak added	Sample:7-211010A25, Compound:TF, RT:29.329	
14-Oct-21	17:10:15	Peak added	Sample:7-211010A25, Compound:TF, RT:29.387	
14-Oct-21	17:10:15	Pre modification peak	Sample:7-211010A25, Compound:TF, RT:25.458	
14-Oct-21	17:10:15	Peak modified	Sample:7-211010A25, Compound:TF, RT:25.458	
14-Oct-21	17:10:15	Peak deleted	Sample:7-211010A25, Compound:TF, RT:27.044	
14-Oct-21	17:10:15	Peak deleted	Sample:7-211010A25, Compound:TF, RT:25.545	
14-Oct-21	17:10:15	Peak deleted	Sample:7-211010A25, Compound:TF, RT:29.402	
14-Oct-21	17:10:15	Peak deleted	Sample:7-211010A25, Compound:TF, RT:29.329	
14-Oct-21	17:10:32	Peak added	Sample:7-211010A26, Compound:TF, RT:25.530	
14-Oct-21	17:10:32	Peak added	Sample:7-211010A26, Compound:TF, RT:27.044	
14-Oct-21	17:10:32	Peak added	Sample:7-211010A26, Compound:TF, RT:29.314	
14-Oct-21	17:10:32	Peak deleted	Sample:7-211010A26, Compound:TF, RT:25.545	
14-Oct-21	17:10:32	Peak deleted	Sample:7-211010A26, Compound:TF, RT:29.402	
14-Oct-21	17:10:32	Peak deleted	Sample:7-211010A26, Compound:TF, RT:29.329	
14-Oct-21	17:10:32	Peak deleted	Sample:7-211010A26, Compound:TF, RT:27.044	
14-Oct-21	17:10:57	Peak added	Sample:7-211010A27, Compound:TF, RT:27.044	
14-Oct-21	17:10:57	Peak added	Sample:7-211010A27, Compound:TF, RT:29.314	
14-Oct-21	17:10:57	Peak deleted	Sample:7-211010A27, Compound:TF, RT:29.402	
14-Oct-21	17:10:57	Peak deleted	Sample:7-211010A27, Compound:TF, RT:29.358	
14-Oct-21	17:10:57	Peak deleted	Sample:7-211010A27, Compound:TF, RT:27.073	
14-Oct-21	17:12:06	Peak deleted	Sample:7-211010A02, Compound:PF-f1, RT:26.724	
14-Oct-21	17:12:06	Peak deleted	Sample:7-211010A02, Compound:PF-f1, RT:25.399	
14-Oct-21	17:12:06	Peak deleted	Sample:7-211010A02, Compound:PF-f1, RT:25.239	
14-Oct-21	17:12:06	Peak deleted	Sample:7-211010A02, Compound:PF-f1, RT:24.934	
14-Oct-21	17:12:06	Peak deleted	Sample:7-211010A02, Compound:PF-f1, RT:24.890	
14-Oct-21	17:12:06	Peak deleted	Sample:7-211010A02, Compound:PF-f1, RT:24.060	
14-Oct-21	17:12:06	Peak deleted	Sample:7-211010A02, Compound:PF-f1, RT:23.187	
14-Oct-21	17:12:06	Peak deleted	Sample:7-211010A02, Compound:PF-f1, RT:22.591	
14-Oct-21	17:12:06	Peak deleted	Sample:7-211010A02, Compound:PF-f1, RT:22.139	
14-Oct-21	17:12:06	Peak deleted	Sample:7-211010A02, Compound:PF-f1, RT:21.601	
14-Oct-21	17:12:06	Peak deleted	Sample:7-211010A02, Compound:PF-f1, RT:29.431	
14-Oct-21	17:12:06	Peak deleted	Sample:7-211010A02, Compound:PF-f1, RT:29.329	
14-Oct-21	17:12:06	Peak deleted	Sample:7-211010A02, Compound:PF-f1, RT:28.747	
14-Oct-21	17:12:06	Peak deleted	Sample:7-211010A02, Compound:PF-f1, RT:28.237	
14-Oct-21	17:12:06	Peak deleted	Sample:7-211010A02, Compound:PF-f1, RT:27.743	
14-Oct-21	17:12:06	Peak deleted	Sample:7-211010A02, Compound:PF-f1, RT:27.393	
14-Oct-21	17:12:06	Peak deleted	Sample:7-211010A02, Compound:PF-f1, RT:27.044	
14-Oct-21	17:12:11	Peak deleted	Sample:7-211010A05, Compound:PF-f1, RT:29.023	
14-Oct-21	17:12:11	Peak deleted	Sample:7-211010A05, Compound:PF-f1, RT:28.456	
14-Oct-21	17:12:11	Peak deleted	Sample:7-211010A05, Compound:PF-f1, RT:27.379	
14-Oct-21	17:12:11	Peak deleted	Sample:7-211010A05, Compound:PF-f1, RT:27.073	
14-Oct-21	17:12:11	Peak deleted	Sample:7-211010A05, Compound:PF-f1, RT:25.982	
14-Oct-21	17:12:11	Peak deleted	Sample:7-211010A05, Compound:PF-f1, RT:25.356	
14-Oct-21	17:12:11	Peak deleted	Sample:7-211010A05, Compound:PF-f1, RT:24.614	
14-Oct-21	17:12:11	Peak deleted	Sample:7-211010A05, Compound:PF-f1, RT:24.395	
14-Oct-21	17:12:11	Peak deleted	Sample:7-211010A05, Compound:PF-f1, RT:23.915	
14-Oct-21	17:12:11	Peak deleted	Sample:7-211010A05, Compound:PF-f1, RT:23.420	
14-Oct-21	17:12:11	Peak deleted	Sample:7-211010A05, Compound:PF-f1, RT:21.892	
14-Oct-21	17:12:11	Peak deleted	Sample:7-211010A05, Compound:PF-f1, RT:29.140	
14-Oct-21	17:12:16	Peak deleted	Sample:7-211010A06, Compound:PF-f1, RT:29.314	
14-Oct-21	17:12:16	Peak deleted	Sample:7-211010A06, Compound:PF-f1, RT:28.281	

Date	Time	Event	Details	Comments
14-Oct-21	17:12:16	Peak deleted	Sample:7-211010A06, Compound:PF-f1, RT:27.320	
14-Oct-21	17:12:16	Peak deleted	Sample:7-211010A06, Compound:PF-f1, RT:27.015	
14-Oct-21	17:12:16	Peak deleted	Sample:7-211010A06, Compound:PF-f1, RT:26.782	
14-Oct-21	17:12:16	Peak deleted	Sample:7-211010A06, Compound:PF-f1, RT:26.229	
14-Oct-21	17:12:16	Peak deleted	Sample:7-211010A06, Compound:PF-f1, RT:23.842	
14-Oct-21	17:12:16	Peak deleted	Sample:7-211010A06, Compound:PF-f1, RT:22.692	
14-Oct-21	17:12:16	Peak deleted	Sample:7-211010A06, Compound:PF-f1, RT:29.402	
14-Oct-21	17:12:22	Peak deleted	Sample:7-211010A07, Compound:PF-f1, RT:24.541	
14-Oct-21	17:12:22	Peak deleted	Sample:7-211010A07, Compound:PF-f1, RT:23.784	
14-Oct-21	17:12:22	Peak deleted	Sample:7-211010A07, Compound:PF-f1, RT:21.630	
14-Oct-21	17:12:22	Peak deleted	Sample:7-211010A07, Compound:PF-f1, RT:29.343	
14-Oct-21	17:12:22	Peak deleted	Sample:7-211010A07, Compound:PF-f1, RT:29.300	
14-Oct-21	17:12:22	Peak deleted	Sample:7-211010A07, Compound:PF-f1, RT:29.212	
14-Oct-21	17:12:22	Peak deleted	Sample:7-211010A07, Compound:PF-f1, RT:27.044	
14-Oct-21	17:12:22	Peak deleted	Sample:7-211010A07, Compound:PF-f1, RT:26.476	
14-Oct-21	17:12:22	Peak deleted	Sample:7-211010A07, Compound:PF-f1, RT:25.676	
14-Oct-21	17:12:27	Peak deleted	Sample:7-211010A08, Compound:PF-f1, RT:22.023	
14-Oct-21	17:12:27	Peak deleted	Sample:7-211010A08, Compound:PF-f1, RT:29.416	
14-Oct-21	17:12:27	Peak deleted	Sample:7-211010A08, Compound:PF-f1, RT:29.343	
14-Oct-21	17:12:27	Peak deleted	Sample:7-211010A08, Compound:PF-f1, RT:28.805	
14-Oct-21	17:12:27	Peak deleted	Sample:7-211010A08, Compound:PF-f1, RT:28.587	
14-Oct-21	17:12:27	Peak deleted	Sample:7-211010A08, Compound:PF-f1, RT:27.670	
14-Oct-21	17:12:27	Peak deleted	Sample:7-211010A08, Compound:PF-f1, RT:27.320	
14-Oct-21	17:12:27	Peak deleted	Sample:7-211010A08, Compound:PF-f1, RT:27.059	
14-Oct-21	17:12:27	Peak deleted	Sample:7-211010A08, Compound:PF-f1, RT:26.200	
14-Oct-21	17:12:27	Peak deleted	Sample:7-211010A08, Compound:PF-f1, RT:25.618	
14-Oct-21	17:12:27	Peak deleted	Sample:7-211010A08, Compound:PF-f1, RT:24.599	
14-Oct-21	17:12:27	Peak deleted	Sample:7-211010A08, Compound:PF-f1, RT:24.410	
14-Oct-21	17:12:27	Peak deleted	Sample:7-211010A08, Compound:PF-f1, RT:23.755	
14-Oct-21	17:12:27	Peak deleted	Sample:7-211010A08, Compound:PF-f1, RT:23.376	
14-Oct-21	17:12:27	Peak deleted	Sample:7-211010A08, Compound:PF-f1, RT:23.115	
14-Oct-21	17:12:27	Peak deleted	Sample:7-211010A08, Compound:PF-f1, RT:22.751	
14-Oct-21	17:12:41	Peak deleted	Sample:7-211010A11, Compound:PF-f1, RT:23.013	
14-Oct-21	17:12:41	Peak deleted	Sample:7-211010A11, Compound:PF-f1, RT:22.576	
14-Oct-21	17:12:41	Peak deleted	Sample:7-211010A11, Compound:PF-f1, RT:22.285	
14-Oct-21	17:12:41	Peak deleted	Sample:7-211010A11, Compound:PF-f1, RT:22.008	
14-Oct-21	17:12:41	Peak deleted	Sample:7-211010A11, Compound:PF-f1, RT:21.718	
14-Oct-21	17:12:41	Peak deleted	Sample:7-211010A11, Compound:PF-f1, RT:21.587	
14-Oct-21	17:12:41	Peak deleted	Sample:7-211010A11, Compound:PF-f1, RT:29.474	
14-Oct-21	17:12:41	Peak deleted	Sample:7-211010A11, Compound:PF-f1, RT:29.300	
14-Oct-21	17:12:41	Peak deleted	Sample:7-211010A11, Compound:PF-f1, RT:28.674	
14-Oct-21	17:12:41	Peak deleted	Sample:7-211010A11, Compound:PF-f1, RT:28.572	
14-Oct-21	17:12:41	Peak deleted	Sample:7-211010A11, Compound:PF-f1, RT:28.121	
14-Oct-21	17:12:41	Peak deleted	Sample:7-211010A11, Compound:PF-f1, RT:27.568	
14-Oct-21	17:12:41	Peak deleted	Sample:7-211010A11, Compound:PF-f1, RT:26.549	
14-Oct-21	17:12:41	Peak deleted	Sample:7-211010A11, Compound:PF-f1, RT:26.360	
14-Oct-21	17:12:41	Peak deleted	Sample:7-211010A11, Compound:PF-f1, RT:25.647	
14-Oct-21	17:12:41	Peak deleted	Sample:7-211010A11, Compound:PF-f1, RT:25.370	
14-Oct-21	17:12:41	Peak deleted	Sample:7-211010A11, Compound:PF-f1, RT:23.682	
14-Oct-21	17:12:41	Peak deleted	Sample:7-211010A11, Compound:PF-f1, RT:23.580	
14-Oct-21	17:12:41	Peak deleted	Sample:7-211010A11, Compound:PF-f1, RT:23.187	
14-Oct-21	17:12:41	Peak deleted	Sample:7-211010A11, Compound:PF-f1, RT:23.071	
14-Oct-21	17:12:47	Peak deleted	Sample:7-211010A12, Compound:PF-f1, RT:24.570	

Date	Time	Event	Details	Comments
14-Oct-21	17:12:47	Peak deleted	Sample:7-211010A12, Compound:PF-f1, RT:24.060	
14-Oct-21	17:12:47	Peak deleted	Sample:7-211010A12, Compound:PF-f1, RT:23.886	
14-Oct-21	17:12:47	Peak deleted	Sample:7-211010A12, Compound:PF-f1, RT:22.736	
14-Oct-21	17:12:47	Peak deleted	Sample:7-211010A12, Compound:PF-f1, RT:22.649	
14-Oct-21	17:12:47	Peak deleted	Sample:7-211010A12, Compound:PF-f1, RT:22.562	
14-Oct-21	17:12:47	Peak deleted	Sample:7-211010A12, Compound:PF-f1, RT:22.474	
14-Oct-21	17:12:47	Peak deleted	Sample:7-211010A12, Compound:PF-f1, RT:21.834	
14-Oct-21	17:12:47	Peak deleted	Sample:7-211010A12, Compound:PF-f1, RT:29.314	
14-Oct-21	17:12:47	Peak deleted	Sample:7-211010A12, Compound:PF-f1, RT:29.154	
14-Oct-21	17:12:47	Peak deleted	Sample:7-211010A12, Compound:PF-f1, RT:28.848	
14-Oct-21	17:12:47	Peak deleted	Sample:7-211010A12, Compound:PF-f1, RT:27.815	
14-Oct-21	17:12:47	Peak deleted	Sample:7-211010A12, Compound:PF-f1, RT:27.466	
14-Oct-21	17:12:47	Peak deleted	Sample:7-211010A12, Compound:PF-f1, RT:27.073	
14-Oct-21	17:12:47	Peak deleted	Sample:7-211010A12, Compound:PF-f1, RT:27.015	
14-Oct-21	17:12:47	Peak deleted	Sample:7-211010A12, Compound:PF-f1, RT:26.796	
14-Oct-21	17:12:47	Peak deleted	Sample:7-211010A12, Compound:PF-f1, RT:26.258	
14-Oct-21	17:12:47	Peak deleted	Sample:7-211010A12, Compound:PF-f1, RT:26.025	
14-Oct-21	17:12:47	Peak deleted	Sample:7-211010A12, Compound:PF-f1, RT:25.676	
14-Oct-21	17:12:47	Peak deleted	Sample:7-211010A12, Compound:PF-f1, RT:25.385	
14-Oct-21	17:12:47	Peak deleted	Sample:7-211010A12, Compound:PF-f1, RT:25.167	
14-Oct-21	17:12:47	Peak deleted	Sample:7-211010A12, Compound:PF-f1, RT:25.036	
14-Oct-21	17:12:47	Peak deleted	Sample:7-211010A12, Compound:PF-f1, RT:24.846	
14-Oct-21	17:12:53	Peak deleted	Sample:7-211010A13, Compound:PF-f1, RT:22.983	
14-Oct-21	17:12:53	Peak deleted	Sample:7-211010A13, Compound:PF-f1, RT:22.329	
14-Oct-21	17:12:53	Peak deleted	Sample:7-211010A13, Compound:PF-f1, RT:29.402	
14-Oct-21	17:12:53	Peak deleted	Sample:7-211010A13, Compound:PF-f1, RT:29.329	
14-Oct-21	17:12:53	Peak deleted	Sample:7-211010A13, Compound:PF-f1, RT:28.863	
14-Oct-21	17:12:53	Peak deleted	Sample:7-211010A13, Compound:PF-f1, RT:28.747	
14-Oct-21	17:12:53	Peak deleted	Sample:7-211010A13, Compound:PF-f1, RT:28.252	
14-Oct-21	17:12:53	Peak deleted	Sample:7-211010A13, Compound:PF-f1, RT:27.728	
14-Oct-21	17:12:53	Peak deleted	Sample:7-211010A13, Compound:PF-f1, RT:27.641	
14-Oct-21	17:12:53	Peak deleted	Sample:7-211010A13, Compound:PF-f1, RT:27.131	
14-Oct-21	17:12:53	Peak deleted	Sample:7-211010A13, Compound:PF-f1, RT:27.029	
14-Oct-21	17:12:53	Peak deleted	Sample:7-211010A13, Compound:PF-f1, RT:26.680	
14-Oct-21	17:12:53	Peak deleted	Sample:7-211010A13, Compound:PF-f1, RT:25.428	
14-Oct-21	17:12:53	Peak deleted	Sample:7-211010A13, Compound:PF-f1, RT:24.584	
14-Oct-21	17:12:53	Peak deleted	Sample:7-211010A13, Compound:PF-f1, RT:24.017	
14-Oct-21	17:12:58	Peak deleted	Sample:7-211010A14, Compound:PF-f1, RT:29.052	
14-Oct-21	17:12:58	Peak deleted	Sample:7-211010A14, Compound:PF-f1, RT:27.335	
14-Oct-21	17:12:58	Peak deleted	Sample:7-211010A14, Compound:PF-f1, RT:27.088	
14-Oct-21	17:12:58	Peak deleted	Sample:7-211010A14, Compound:PF-f1, RT:25.254	
14-Oct-21	17:12:58	Peak deleted	Sample:7-211010A14, Compound:PF-f1, RT:24.774	
14-Oct-21	17:12:58	Peak deleted	Sample:7-211010A14, Compound:PF-f1, RT:23.333	
14-Oct-21	17:12:58	Peak deleted	Sample:7-211010A14, Compound:PF-f1, RT:22.358	
14-Oct-21	17:13:02	Peak deleted	Sample:7-211010A15, Compound:PF-f1, RT:25.312	
14-Oct-21	17:13:02	Peak deleted	Sample:7-211010A15, Compound:PF-f1, RT:24.992	
14-Oct-21	17:13:02	Peak deleted	Sample:7-211010A15, Compound:PF-f1, RT:24.730	
14-Oct-21	17:13:02	Peak deleted	Sample:7-211010A15, Compound:PF-f1, RT:24.148	
14-Oct-21	17:13:02	Peak deleted	Sample:7-211010A15, Compound:PF-f1, RT:23.959	
14-Oct-21	17:13:02	Peak deleted	Sample:7-211010A15, Compound:PF-f1, RT:23.086	
14-Oct-21	17:13:02	Peak deleted	Sample:7-211010A15, Compound:PF-f1, RT:23.013	
14-Oct-21	17:13:02	Peak deleted	Sample:7-211010A15, Compound:PF-f1, RT:22.809	
14-Oct-21	17:13:02	Peak deleted	Sample:7-211010A15, Compound:PF-f1, RT:28.819	

Date	Time	Event	Details	Comments
14-Oct-21	17:13:02	Peak deleted	Sample:7-211010A15, Compound:PF-f1, RT:28.383	
14-Oct-21	17:13:02	Peak deleted	Sample:7-211010A15, Compound:PF-f1, RT:27.088	
14-Oct-21	17:13:02	Peak deleted	Sample:7-211010A15, Compound:PF-f1, RT:26.127	
14-Oct-21	17:13:08	Peak deleted	Sample:7-211010A18, Compound:PF-f1, RT:26.680	
14-Oct-21	17:13:08	Peak deleted	Sample:7-211010A18, Compound:PF-f1, RT:24.599	
14-Oct-21	17:13:08	Peak deleted	Sample:7-211010A18, Compound:PF-f1, RT:22.067	
14-Oct-21	17:13:08	Peak deleted	Sample:7-211010A18, Compound:PF-f1, RT:21.819	
14-Oct-21	17:13:08	Peak deleted	Sample:7-211010A18, Compound:PF-f1, RT:29.140	
14-Oct-21	17:13:08	Peak deleted	Sample:7-211010A18, Compound:PF-f1, RT:29.038	
14-Oct-21	17:13:08	Peak deleted	Sample:7-211010A18, Compound:PF-f1, RT:28.441	
14-Oct-21	17:13:08	Peak deleted	Sample:7-211010A18, Compound:PF-f1, RT:28.063	
14-Oct-21	17:13:08	Peak deleted	Sample:7-211010A18, Compound:PF-f1, RT:27.510	
14-Oct-21	17:13:51	Peak deleted	Sample:7-211010A19, Compound:PF-f1, RT:23.944	
14-Oct-21	17:13:51	Peak deleted	Sample:7-211010A19, Compound:PF-f1, RT:23.042	
14-Oct-21	17:13:51	Peak deleted	Sample:7-211010A19, Compound:PF-f1, RT:28.718	
14-Oct-21	17:13:51	Peak deleted	Sample:7-211010A19, Compound:PF-f1, RT:27.990	
14-Oct-21	17:13:51	Peak deleted	Sample:7-211010A19, Compound:PF-f1, RT:27.946	
14-Oct-21	17:13:51	Peak deleted	Sample:7-211010A19, Compound:PF-f1, RT:27.859	
14-Oct-21	17:13:51	Peak deleted	Sample:7-211010A19, Compound:PF-f1, RT:27.801	
14-Oct-21	17:13:51	Peak deleted	Sample:7-211010A19, Compound:PF-f1, RT:27.524	
14-Oct-21	17:13:51	Peak deleted	Sample:7-211010A19, Compound:PF-f1, RT:27.437	
14-Oct-21	17:13:51	Peak deleted	Sample:7-211010A19, Compound:PF-f1, RT:27.262	
14-Oct-21	17:13:51	Peak deleted	Sample:7-211010A19, Compound:PF-f1, RT:27.219	
14-Oct-21	17:13:51	Peak deleted	Sample:7-211010A19, Compound:PF-f1, RT:26.840	
14-Oct-21	17:13:51	Peak deleted	Sample:7-211010A19, Compound:PF-f1, RT:26.564	
14-Oct-21	17:13:51	Peak deleted	Sample:7-211010A19, Compound:PF-f1, RT:26.418	
14-Oct-21	17:13:51	Peak deleted	Sample:7-211010A19, Compound:PF-f1, RT:25.676	
14-Oct-21	17:13:51	Peak deleted	Sample:7-211010A19, Compound:PF-f1, RT:25.516	
14-Oct-21	17:13:51	Peak deleted	Sample:7-211010A19, Compound:PF-f1, RT:25.167	
14-Oct-21	17:13:51	Peak deleted	Sample:7-211010A19, Compound:PF-f1, RT:24.148	
14-Oct-21	17:13:57	Peak deleted	Sample:7-211010A22, Compound:PF-f1, RT:24.861	
14-Oct-21	17:13:57	Peak deleted	Sample:7-211010A22, Compound:PF-f1, RT:24.643	
14-Oct-21	17:13:57	Peak deleted	Sample:7-211010A22, Compound:PF-f1, RT:23.086	
14-Oct-21	17:13:57	Peak deleted	Sample:7-211010A22, Compound:PF-f1, RT:22.620	
14-Oct-21	17:13:57	Peak deleted	Sample:7-211010A22, Compound:PF-f1, RT:21.965	
14-Oct-21	17:13:57	Peak deleted	Sample:7-211010A22, Compound:PF-f1, RT:29.154	
14-Oct-21	17:13:57	Peak deleted	Sample:7-211010A22, Compound:PF-f1, RT:29.096	
14-Oct-21	17:13:57	Peak deleted	Sample:7-211010A22, Compound:PF-f1, RT:28.907	
14-Oct-21	17:13:57	Peak deleted	Sample:7-211010A22, Compound:PF-f1, RT:28.761	
14-Oct-21	17:13:57	Peak deleted	Sample:7-211010A22, Compound:PF-f1, RT:28.572	
14-Oct-21	17:13:57	Peak deleted	Sample:7-211010A22, Compound:PF-f1, RT:28.208	
14-Oct-21	17:13:57	Peak deleted	Sample:7-211010A22, Compound:PF-f1, RT:27.422	
14-Oct-21	17:13:57	Peak deleted	Sample:7-211010A22, Compound:PF-f1, RT:26.913	
14-Oct-21	17:13:57	Peak deleted	Sample:7-211010A22, Compound:PF-f1, RT:25.982	
14-Oct-21	17:13:57	Peak deleted	Sample:7-211010A22, Compound:PF-f1, RT:25.792	
14-Oct-21	17:13:57	Peak deleted	Sample:7-211010A22, Compound:PF-f1, RT:25.559	
14-Oct-21	17:13:57	Peak deleted	Sample:7-211010A22, Compound:PF-f1, RT:25.356	
14-Oct-21	17:13:57	Peak deleted	Sample:7-211010A22, Compound:PF-f1, RT:25.079	
14-Oct-21	17:14:05	Peak deleted	Sample:7-211010A23, Compound:PF-f1, RT:21.761	
14-Oct-21	17:14:05	Peak deleted	Sample:7-211010A23, Compound:PF-f1, RT:21.601	
14-Oct-21	17:14:05	Peak deleted	Sample:7-211010A23, Compound:PF-f1, RT:29.154	
14-Oct-21	17:14:05	Peak deleted	Sample:7-211010A23, Compound:PF-f1, RT:28.325	
14-Oct-21	17:14:05	Peak deleted	Sample:7-211010A23, Compound:PF-f1, RT:27.786	

Date	Time	Event	Details	Comments
14-Oct-21	17:14:05	Peak deleted	Sample:7-211010A23, Compound:PF-f1, RT:26.898	
14-Oct-21	17:14:05	Peak deleted	Sample:7-211010A23, Compound:PF-f1, RT:26.447	
14-Oct-21	17:14:05	Peak deleted	Sample:7-211010A23, Compound:PF-f1, RT:25.472	
14-Oct-21	17:14:05	Peak deleted	Sample:7-211010A23, Compound:PF-f1, RT:25.239	
14-Oct-21	17:14:05	Peak deleted	Sample:7-211010A23, Compound:PF-f1, RT:23.930	
14-Oct-21	17:14:05	Peak deleted	Sample:7-211010A23, Compound:PF-f1, RT:23.187	
14-Oct-21	17:14:05	Peak deleted	Sample:7-211010A23, Compound:PF-f1, RT:22.838	
14-Oct-21	17:14:20	Peak deleted	Sample:7-211010A24, Compound:PF-f1, RT:26.418	
14-Oct-21	17:14:20	Peak deleted	Sample:7-211010A24, Compound:PF-f1, RT:25.618	
14-Oct-21	17:14:20	Peak deleted	Sample:7-211010A24, Compound:PF-f1, RT:25.254	
14-Oct-21	17:14:20	Peak deleted	Sample:7-211010A24, Compound:PF-f1, RT:24.788	
14-Oct-21	17:14:20	Peak deleted	Sample:7-211010A24, Compound:PF-f1, RT:24.715	
14-Oct-21	17:14:20	Peak deleted	Sample:7-211010A24, Compound:PF-f1, RT:24.643	
14-Oct-21	17:14:20	Peak deleted	Sample:7-211010A24, Compound:PF-f1, RT:24.599	
14-Oct-21	17:14:20	Peak deleted	Sample:7-211010A24, Compound:PF-f1, RT:23.828	
14-Oct-21	17:14:20	Peak deleted	Sample:7-211010A24, Compound:PF-f1, RT:23.260	
14-Oct-21	17:14:20	Peak deleted	Sample:7-211010A24, Compound:PF-f1, RT:22.838	
14-Oct-21	17:14:20	Peak deleted	Sample:7-211010A24, Compound:PF-f1, RT:22.780	
14-Oct-21	17:14:20	Peak deleted	Sample:7-211010A24, Compound:PF-f1, RT:22.343	
14-Oct-21	17:14:20	Peak deleted	Sample:7-211010A24, Compound:PF-f1, RT:22.038	
14-Oct-21	17:14:20	Peak deleted	Sample:7-211010A24, Compound:PF-f1, RT:21.878	
14-Oct-21	17:14:20	Peak deleted	Sample:7-211010A24, Compound:PF-f1, RT:21.674	
14-Oct-21	17:14:20	Peak deleted	Sample:7-211010A24, Compound:PF-f1, RT:29.125	
14-Oct-21	17:14:20	Peak deleted	Sample:7-211010A24, Compound:PF-f1, RT:28.892	
14-Oct-21	17:14:20	Peak deleted	Sample:7-211010A24, Compound:PF-f1, RT:28.819	
14-Oct-21	17:14:20	Peak deleted	Sample:7-211010A24, Compound:PF-f1, RT:28.630	
14-Oct-21	17:14:20	Peak deleted	Sample:7-211010A24, Compound:PF-f1, RT:28.427	
14-Oct-21	17:14:20	Peak deleted	Sample:7-211010A24, Compound:PF-f1, RT:28.092	
14-Oct-21	17:14:20	Peak deleted	Sample:7-211010A24, Compound:PF-f1, RT:27.699	
14-Oct-21	17:14:20	Peak deleted	Sample:7-211010A24, Compound:PF-f1, RT:27.059	
14-Oct-21	17:14:20	Peak deleted	Sample:7-211010A24, Compound:PF-f1, RT:26.636	
14-Oct-21	17:14:33	Peak deleted	Sample:7-211010A24, Compound:PF-f1, RT:29.431	
14-Oct-21	17:14:33	Peak deleted	Sample:7-211010A24, Compound:PF-f1, RT:29.358	
14-Oct-21	17:14:40	Peak deleted	Sample:7-211010A25, Compound:PF-f1, RT:29.314	
14-Oct-21	17:14:40	Peak deleted	Sample:7-211010A25, Compound:PF-f1, RT:28.848	
14-Oct-21	17:14:40	Peak deleted	Sample:7-211010A25, Compound:PF-f1, RT:28.601	
14-Oct-21	17:14:40	Peak deleted	Sample:7-211010A25, Compound:PF-f1, RT:28.048	
14-Oct-21	17:14:40	Peak deleted	Sample:7-211010A25, Compound:PF-f1, RT:27.990	
14-Oct-21	17:14:40	Peak deleted	Sample:7-211010A25, Compound:PF-f1, RT:27.874	
14-Oct-21	17:14:40	Peak deleted	Sample:7-211010A25, Compound:PF-f1, RT:27.626	
14-Oct-21	17:14:40	Peak deleted	Sample:7-211010A25, Compound:PF-f1, RT:26.651	
14-Oct-21	17:14:40	Peak deleted	Sample:7-211010A25, Compound:PF-f1, RT:24.628	
14-Oct-21	17:14:40	Peak deleted	Sample:7-211010A25, Compound:PF-f1, RT:24.541	
14-Oct-21	17:14:40	Peak deleted	Sample:7-211010A25, Compound:PF-f1, RT:22.314	
14-Oct-21	17:14:40	Peak deleted	Sample:7-211010A25, Compound:PF-f1, RT:22.096	
14-Oct-21	17:14:40	Peak deleted	Sample:7-211010A25, Compound:PF-f1, RT:21.950	
14-Oct-21	17:14:45	Peak deleted	Sample:7-211010A26, Compound:PF-f1, RT:28.892	
14-Oct-21	17:14:45	Peak deleted	Sample:7-211010A26, Compound:PF-f1, RT:28.514	
14-Oct-21	17:14:45	Peak deleted	Sample:7-211010A26, Compound:PF-f1, RT:27.859	
14-Oct-21	17:14:45	Peak deleted	Sample:7-211010A26, Compound:PF-f1, RT:27.539	
14-Oct-21	17:14:45	Peak deleted	Sample:7-211010A26, Compound:PF-f1, RT:27.059	
14-Oct-21	17:14:45	Peak deleted	Sample:7-211010A26, Compound:PF-f1, RT:26.651	
14-Oct-21	17:14:45	Peak deleted	Sample:7-211010A26, Compound:PF-f1, RT:26.331	

Date	Time	Event	Details	Comments
14-Oct-21	17:14:45	Peak deleted	Sample:7-211010A26, Compound:PF-f1, RT:24.744	
14-Oct-21	17:14:45	Peak deleted	Sample:7-211010A26, Compound:PF-f1, RT:24.570	
14-Oct-21	17:14:45	Peak deleted	Sample:7-211010A26, Compound:PF-f1, RT:24.366	
14-Oct-21	17:14:45	Peak deleted	Sample:7-211010A26, Compound:PF-f1, RT:22.372	
14-Oct-21	17:14:45	Peak deleted	Sample:7-211010A26, Compound:PF-f1, RT:22.052	
14-Oct-21	17:14:51	Peak deleted	Sample:7-211010A27, Compound:PF-f1, RT:24.308	
14-Oct-21	17:14:51	Peak deleted	Sample:7-211010A27, Compound:PF-f1, RT:23.071	
14-Oct-21	17:14:51	Peak deleted	Sample:7-211010A27, Compound:PF-f1, RT:22.736	
14-Oct-21	17:14:51	Peak deleted	Sample:7-211010A27, Compound:PF-f1, RT:21.688	
14-Oct-21	17:14:51	Peak deleted	Sample:7-211010A27, Compound:PF-f1, RT:29.416	
14-Oct-21	17:14:51	Peak deleted	Sample:7-211010A27, Compound:PF-f1, RT:29.329	
14-Oct-21	17:14:51	Peak deleted	Sample:7-211010A27, Compound:PF-f1, RT:29.125	
14-Oct-21	17:14:51	Peak deleted	Sample:7-211010A27, Compound:PF-f1, RT:28.150	
14-Oct-21	17:14:51	Peak deleted	Sample:7-211010A27, Compound:PF-f1, RT:27.874	
14-Oct-21	17:14:51	Peak deleted	Sample:7-211010A27, Compound:PF-f1, RT:27.073	
14-Oct-21	17:14:51	Peak deleted	Sample:7-211010A27, Compound:PF-f1, RT:25.661	
14-Oct-21	17:14:51	Peak deleted	Sample:7-211010A27, Compound:PF-f1, RT:25.603	
14-Oct-21	17:14:51	Peak deleted	Sample:7-211010A27, Compound:PF-f1, RT:24.672	
14-Oct-21	17:14:56	Peak deleted	Sample:7-211010A28, Compound:PF-f1, RT:28.456	
14-Oct-21	17:14:56	Peak deleted	Sample:7-211010A28, Compound:PF-f1, RT:27.961	
14-Oct-21	17:14:56	Peak deleted	Sample:7-211010A28, Compound:PF-f1, RT:27.830	
14-Oct-21	17:14:56	Peak deleted	Sample:7-211010A28, Compound:PF-f1, RT:27.160	
14-Oct-21	17:14:56	Peak deleted	Sample:7-211010A28, Compound:PF-f1, RT:26.520	
14-Oct-21	17:14:56	Peak deleted	Sample:7-211010A28, Compound:PF-f1, RT:25.792	
14-Oct-21	17:14:56	Peak deleted	Sample:7-211010A28, Compound:PF-f1, RT:25.472	
14-Oct-21	17:14:56	Peak deleted	Sample:7-211010A28, Compound:PF-f1, RT:24.643	
14-Oct-21	17:14:56	Peak deleted	Sample:7-211010A28, Compound:PF-f1, RT:24.308	
14-Oct-21	17:14:56	Peak deleted	Sample:7-211010A28, Compound:PF-f1, RT:23.566	
14-Oct-21	17:14:56	Peak deleted	Sample:7-211010A28, Compound:PF-f1, RT:22.023	
14-Oct-21	17:14:56	Peak deleted	Sample:7-211010A28, Compound:PF-f1, RT:29.402	
14-Oct-21	17:14:56	Peak deleted	Sample:7-211010A28, Compound:PF-f1, RT:29.140	
14-Oct-21	17:14:56	Peak deleted	Sample:7-211010A28, Compound:PF-f1, RT:29.038	
14-Oct-21	17:14:56	Peak deleted	Sample:7-211010A28, Compound:PF-f1, RT:28.587	
14-Oct-21	17:15:04	Peak deleted	Sample:7-211010A29, Compound:PF-f1, RT:27.932	
14-Oct-21	17:15:04	Peak deleted	Sample:7-211010A29, Compound:PF-f1, RT:27.844	
14-Oct-21	17:15:04	Peak deleted	Sample:7-211010A29, Compound:PF-f1, RT:27.772	
14-Oct-21	17:15:04	Peak deleted	Sample:7-211010A29, Compound:PF-f1, RT:27.670	
14-Oct-21	17:15:04	Peak deleted	Sample:7-211010A29, Compound:PF-f1, RT:26.884	
14-Oct-21	17:15:04	Peak deleted	Sample:7-211010A29, Compound:PF-f1, RT:25.952	
14-Oct-21	17:15:04	Peak deleted	Sample:7-211010A29, Compound:PF-f1, RT:24.934	
14-Oct-21	17:15:04	Peak deleted	Sample:7-211010A29, Compound:PF-f1, RT:24.541	
14-Oct-21	17:15:04	Peak deleted	Sample:7-211010A29, Compound:PF-f1, RT:23.551	
14-Oct-21	17:15:04	Peak deleted	Sample:7-211010A29, Compound:PF-f1, RT:22.955	
14-Oct-21	17:15:04	Peak deleted	Sample:7-211010A29, Compound:PF-f1, RT:22.256	
14-Oct-21	17:15:04	Peak deleted	Sample:7-211010A29, Compound:PF-f1, RT:22.038	
14-Oct-21	17:15:04	Peak deleted	Sample:7-211010A29, Compound:PF-f1, RT:21.761	
14-Oct-21	17:15:04	Peak deleted	Sample:7-211010A29, Compound:PF-f1, RT:21.718	
14-Oct-21	17:15:19	Peak added	Sample:7-211010A06, Compound:PF-f2, RT:31.081	
14-Oct-21	17:15:19	Peak added	Sample:7-211010A06, Compound:PF-f2, RT:31.760	
14-Oct-21	17:15:19	Peak deleted	Sample:7-211010A06, Compound:PF-f2, RT:31.092	
14-Oct-21	17:15:19	Peak deleted	Sample:7-211010A06, Compound:PF-f2, RT:31.771	
14-Oct-21	17:15:28	Peak added	Sample:7-211010A07, Compound:PF-f2, RT:31.081	
14-Oct-21	17:15:28	Peak added	Sample:7-211010A07, Compound:PF-f2, RT:31.760	

Quantify Audit Report MassLynx MassLynx V4.1 SCN 901

Dataset: I:\Organics Instrument\HIGHRES GCMS Completed Results Files\HR-7\2021\2110\7-211010A-1015KB.qld

Last Altered: Friday, October 15, 2021 09:46:05 Eastern Daylight Time
Printed: Friday, October 15, 2021 11:39:37 Eastern Daylight Time

Date	Time	Event	Details	Comments
14-Oct-21	17:15:28	Peak deleted	Sample:7-211010A07, Compound:PF-f2, RT:31.092	
14-Oct-21	17:15:28	Peak deleted	Sample:7-211010A07, Compound:PF-f2, RT:31.771	
14-Oct-21	17:15:55	Peak added	Sample:7-211010A08, Compound:PF-f2, RT:31.103	
14-Oct-21	17:15:55	Peak added	Sample:7-211010A08, Compound:PF-f2, RT:31.771	
14-Oct-21	17:15:55	Peak deleted	Sample:7-211010A08, Compound:PF-f2, RT:31.781	
14-Oct-21	17:15:55	Peak deleted	Sample:7-211010A08, Compound:PF-f2, RT:31.114	
14-Oct-21	17:16:02	Peak added	Sample:7-211010A09, Compound:PF-f2, RT:31.114	
14-Oct-21	17:16:02	Peak added	Sample:7-211010A09, Compound:PF-f2, RT:31.781	
14-Oct-21	17:16:02	Peak deleted	Sample:7-211010A09, Compound:PF-f2, RT:31.792	
14-Oct-21	17:16:02	Peak deleted	Sample:7-211010A09, Compound:PF-f2, RT:31.125	
14-Oct-21	17:16:11	Peak added	Sample:7-211010A10, Compound:PF-f2, RT:31.103	
14-Oct-21	17:16:11	Peak added	Sample:7-211010A10, Compound:PF-f2, RT:31.771	
14-Oct-21	17:16:11	Peak deleted	Sample:7-211010A10, Compound:PF-f2, RT:31.781	
14-Oct-21	17:16:11	Peak deleted	Sample:7-211010A10, Compound:PF-f2, RT:31.125	
14-Oct-21	17:16:17	Peak added	Sample:7-211010A11, Compound:PF-f2, RT:31.081	
14-Oct-21	17:16:17	Peak deleted	Sample:7-211010A11, Compound:PF-f2, RT:31.092	
14-Oct-21	17:16:24	Peak added	Sample:7-211010A12, Compound:PF-f2, RT:31.081	
14-Oct-21	17:16:24	Peak added	Sample:7-211010A12, Compound:PF-f2, RT:31.760	
14-Oct-21	17:16:24	Peak deleted	Sample:7-211010A12, Compound:PF-f2, RT:31.771	
14-Oct-21	17:16:24	Peak deleted	Sample:7-211010A12, Compound:PF-f2, RT:31.103	
14-Oct-21	17:16:32	Peak added	Sample:7-211010A13, Compound:PF-f2, RT:31.092	
14-Oct-21	17:16:32	Peak added	Sample:7-211010A13, Compound:PF-f2, RT:31.771	
14-Oct-21	17:16:32	Peak deleted	Sample:7-211010A13, Compound:PF-f2, RT:31.771	
14-Oct-21	17:16:32	Peak deleted	Sample:7-211010A13, Compound:PF-f2, RT:31.103	
14-Oct-21	17:16:53	Peak added	Sample:7-211010A24, Compound:PF-f2, RT:31.180	
14-Oct-21	17:16:53	Peak added	Sample:7-211010A24, Compound:PF-f2, RT:31.792	
14-Oct-21	17:16:53	Peak deleted	Sample:7-211010A24, Compound:PF-f2, RT:31.191	
14-Oct-21	17:16:53	Peak deleted	Sample:7-211010A24, Compound:PF-f2, RT:31.803	
14-Oct-21	17:17:01	Peak added	Sample:7-211010A25, Compound:PF-f2, RT:31.092	
14-Oct-21	17:17:01	Peak added	Sample:7-211010A25, Compound:PF-f2, RT:31.771	
14-Oct-21	17:17:01	Peak deleted	Sample:7-211010A25, Compound:PF-f2, RT:31.771	
14-Oct-21	17:17:01	Peak deleted	Sample:7-211010A25, Compound:PF-f2, RT:31.103	
14-Oct-21	17:17:08	Peak added	Sample:7-211010A26, Compound:PF-f2, RT:31.092	
14-Oct-21	17:17:08	Peak added	Sample:7-211010A26, Compound:PF-f2, RT:31.760	
14-Oct-21	17:17:08	Peak deleted	Sample:7-211010A26, Compound:PF-f2, RT:31.771	
14-Oct-21	17:17:08	Peak deleted	Sample:7-211010A26, Compound:PF-f2, RT:31.103	
14-Oct-21	17:17:16	Peak added	Sample:7-211010A27, Compound:PF-f2, RT:31.092	
14-Oct-21	17:17:16	Peak added	Sample:7-211010A27, Compound:PF-f2, RT:31.760	
14-Oct-21	17:17:16	Peak deleted	Sample:7-211010A27, Compound:PF-f2, RT:31.771	
14-Oct-21	17:17:16	Peak deleted	Sample:7-211010A27, Compound:PF-f2, RT:31.103	
14-Oct-21	17:17:36	Peak added	Sample:7-211010A06, Compound:HXF, RT:33.730	
14-Oct-21	17:17:36	Peak deleted	Sample:7-211010A06, Compound:HXF, RT:33.741	
14-Oct-21	17:17:42	Peak added	Sample:7-211010A07, Compound:HXF, RT:33.741	
14-Oct-21	17:17:42	Peak deleted	Sample:7-211010A07, Compound:HXF, RT:33.752	
14-Oct-21	17:17:46	Peak added	Sample:7-211010A08, Compound:HXF, RT:33.752	
14-Oct-21	17:17:46	Peak deleted	Sample:7-211010A08, Compound:HXF, RT:33.762	
14-Oct-21	17:17:51	Peak added	Sample:7-211010A09, Compound:HXF, RT:33.762	
14-Oct-21	17:17:51	Peak deleted	Sample:7-211010A09, Compound:HXF, RT:33.773	
14-Oct-21	17:17:56	Peak added	Sample:7-211010A10, Compound:HXF, RT:33.762	
14-Oct-21	17:17:56	Peak deleted	Sample:7-211010A10, Compound:HXF, RT:33.762	
14-Oct-21	17:18:03	Peak added	Sample:7-211010A12, Compound:HXF, RT:33.741	
14-Oct-21	17:18:03	Peak deleted	Sample:7-211010A12, Compound:HXF, RT:33.752	
14-Oct-21	17:18:09	Peak added	Sample:7-211010A13, Compound:HXF, RT:33.741	

Quantify Audit Report MassLynx MassLynx V4.1 SCN 901

Dataset: I:\Organics Instrument\HIGHRES GCMS Completed Results Files\HR-7\2021\2110\7-211010A-1015KB.qld

Last Altered: Friday, October 15, 2021 09:46:05 Eastern Daylight Time
Printed: Friday, October 15, 2021 11:39:37 Eastern Daylight Time

Date	Time	Event	Details	Comments
14-Oct-21	17:18:09	Peak deleted	Sample:7-211010A13, Compound:HXF, RT:33.752	
14-Oct-21	17:18:34	Peak added	Sample:7-211010A24, Compound:HXF, RT:33.773	
14-Oct-21	17:18:34	Peak deleted	Sample:7-211010A24, Compound:HXF, RT:33.773	
14-Oct-21	17:18:41	Peak added	Sample:7-211010A25, Compound:HXF, RT:33.741	
14-Oct-21	17:18:41	Peak deleted	Sample:7-211010A25, Compound:HXF, RT:33.752	
14-Oct-21	17:18:45	Peak added	Sample:7-211010A26, Compound:HXF, RT:33.741	
14-Oct-21	17:18:45	Peak deleted	Sample:7-211010A26, Compound:HXF, RT:33.762	
14-Oct-21	17:18:58	Dataset Saved	Saved to 'I:\Organics Instrument\HIGHRES GCMS Complete...	
14-Oct-21	17:20:25	Pre modification peak	Sample:7-211010A06, Compound:TD, RT:26.535	
14-Oct-21	17:20:25	Peak modified	Sample:7-211010A06, Compound:TD, RT:26.535	KB211014MJ
14-Oct-21	17:20:25	Peak deleted	Sample:7-211010A06, Compound:TD, RT:26.375	KB211014MJ
14-Oct-21	17:20:25	Peak deleted	Sample:7-211010A06, Compound:TD, RT:29.591	KB211014MJ
14-Oct-21	17:20:36	Peak deleted	Sample:7-211010A07, Compound:TD, RT:29.620	
14-Oct-21	17:20:36	Peak deleted	Sample:7-211010A07, Compound:TD, RT:22.605	
14-Oct-21	17:20:45	Peak deleted	Sample:7-211010A08, Compound:TD, RT:29.663	
14-Oct-21	17:21:05	Pre modification peak	Sample:7-211010A09, Compound:TD, RT:27.917	
14-Oct-21	17:21:05	Peak modified	Sample:7-211010A09, Compound:TD, RT:27.917	KB211014MB
14-Oct-21	17:21:05	Peak deleted	Sample:7-211010A09, Compound:TD, RT:29.518	KB211014MB
14-Oct-21	17:21:05	Pre modification peak	Sample:7-211010A09, Compound:TD, RT:26.622	
14-Oct-21	17:21:05	Peak modified	Sample:7-211010A09, Compound:TD, RT:26.622	KB211014MB
14-Oct-21	17:21:05	Peak deleted	Sample:7-211010A09, Compound:TD, RT:29.693	KB211014MB
14-Oct-21	17:21:36	Peak deleted	Sample:7-211010A10, Compound:TD, RT:28.485	KB211014MB
14-Oct-21	17:21:36	Pre modification peak	Sample:7-211010A10, Compound:TD, RT:28.354	
14-Oct-21	17:21:36	Peak modified	Sample:7-211010A10, Compound:TD, RT:28.354	KB211014MB
14-Oct-21	17:21:36	Pre modification peak	Sample:7-211010A10, Compound:TD, RT:28.354	
14-Oct-21	17:21:36	Peak modified	Sample:7-211010A10, Compound:TD, RT:28.354	KB211014MB
14-Oct-21	17:21:36	Peak deleted	Sample:7-211010A10, Compound:TD, RT:26.869	KB211014MB
14-Oct-21	17:21:36	Peak deleted	Sample:7-211010A10, Compound:TD, RT:26.811	KB211014MB
14-Oct-21	17:21:36	Pre modification peak	Sample:7-211010A10, Compound:TD, RT:26.578	
14-Oct-21	17:21:36	Peak modified	Sample:7-211010A10, Compound:TD, RT:26.578	KB211014MB
14-Oct-21	17:21:36	Peak deleted	Sample:7-211010A10, Compound:TD, RT:26.506	KB211014MB
14-Oct-21	17:21:36	Peak deleted	Sample:7-211010A10, Compound:TD, RT:29.707	KB211014MB
14-Oct-21	17:21:55	Peak deleted	Sample:7-211010A11, Compound:TD, RT:25.909	
14-Oct-21	17:21:55	Peak deleted	Sample:7-211010A11, Compound:TD, RT:25.589	
14-Oct-21	17:22:11	Pre modification peak	Sample:7-211010A12, Compound:TD, RT:27.393	
14-Oct-21	17:22:11	Peak modified	Sample:7-211010A12, Compound:TD, RT:27.393	
14-Oct-21	17:22:49	Pre modification peak	Sample:7-211010A24, Compound:TD, RT:27.088	
14-Oct-21	17:22:49	Peak modified	Sample:7-211010A24, Compound:TD, RT:27.088	KB211014MS
14-Oct-21	17:22:49	Peak added	Sample:7-211010A24, Compound:TD, RT:27.044	KB211014MS
14-Oct-21	17:23:04	Peak deleted	Sample:7-211010A24, Compound:TD, RT:28.528	KB211014MS
14-Oct-21	17:23:04	Pre modification peak	Sample:7-211010A24, Compound:TD, RT:28.412	
14-Oct-21	17:23:04	Peak modified	Sample:7-211010A24, Compound:TD, RT:28.412	KB211014MS
14-Oct-21	17:24:02	Peak deleted	Sample:7-211010A26, Compound:TD, RT:28.659	KB211014MJ
14-Oct-21	17:24:02	Pre modification peak	Sample:7-211010A26, Compound:TD, RT:28.558	
14-Oct-21	17:24:02	Peak modified	Sample:7-211010A26, Compound:TD, RT:28.558	KB211014MJ
14-Oct-21	17:24:02	Pre modification peak	Sample:7-211010A26, Compound:TD, RT:27.903	
14-Oct-21	17:24:02	Peak modified	Sample:7-211010A26, Compound:TD, RT:27.903	KB211014MJ
14-Oct-21	17:24:02	Peak deleted	Sample:7-211010A26, Compound:TD, RT:21.543	KB211014MJ
14-Oct-21	17:24:02	Pre modification peak	Sample:7-211010A26, Compound:TD, RT:26.782	
14-Oct-21	17:24:02	Peak modified	Sample:7-211010A26, Compound:TD, RT:26.782	KB211014MJ
14-Oct-21	17:24:02	Pre modification peak	Sample:7-211010A26, Compound:TD, RT:25.516	
14-Oct-21	17:24:02	Peak modified	Sample:7-211010A26, Compound:TD, RT:25.516	KB211014MJ
14-Oct-21	17:24:02	Peak deleted	Sample:7-211010A26, Compound:TD, RT:25.385	KB211014MJ

Quantify Audit Report MassLynx MassLynx V4.1 SCN 901

Dataset: I:\Organics Instrument\HIGHRES GCMS Completed Results Files\HR-7\2021\2110\7-211010A-1015KB.qld

Last Altered: Friday, October 15, 2021 09:46:05 Eastern Daylight Time
Printed: Friday, October 15, 2021 11:39:37 Eastern Daylight Time

Date	Time	Event	Details	Comments
14-Oct-21	17:24:02	Pre modification peak	Sample:7-211010A26, Compound:TD, RT:25.268	
14-Oct-21	17:24:02	Peak modified	Sample:7-211010A26, Compound:TD, RT:25.268	KB211014MJ
14-Oct-21	17:24:02	Peak deleted	Sample:7-211010A26, Compound:TD, RT:21.543	KB211014MJ
14-Oct-21	17:24:02	Pre modification peak	Sample:7-211010A26, Compound:TD, RT:28.587	
14-Oct-21	17:24:02	Peak modified	Sample:7-211010A26, Compound:TD, RT:28.587	KB211014MJ
14-Oct-21	17:24:02	Pre modification peak	Sample:7-211010A26, Compound:TD, RT:27.874	
14-Oct-21	17:24:02	Peak modified	Sample:7-211010A26, Compound:TD, RT:27.874	KB211014MJ
14-Oct-21	17:24:42	Pre modification peak	Sample:7-211010A27, Compound:TD, RT:25.530	
14-Oct-21	17:24:42	Peak modified	Sample:7-211010A27, Compound:TD, RT:25.530	KB211014MB
14-Oct-21	17:24:42	Pre modification peak	Sample:7-211010A27, Compound:TD, RT:28.601	
14-Oct-21	17:24:42	Peak modified	Sample:7-211010A27, Compound:TD, RT:28.601	KB211014MB
14-Oct-21	17:24:42	Peak deleted	Sample:7-211010A27, Compound:TD, RT:21.543	KB211014MB
14-Oct-21	17:24:42	Pre modification peak	Sample:7-211010A27, Compound:TD, RT:25.298	
14-Oct-21	17:24:42	Peak modified	Sample:7-211010A27, Compound:TD, RT:25.298	KB211014MB
14-Oct-21	17:24:42	Peak deleted	Sample:7-211010A27, Compound:TD, RT:25.152	KB211014MB
14-Oct-21	17:24:42	Peak deleted	Sample:7-211010A27, Compound:TD, RT:24.584	KB211014MB
14-Oct-21	17:24:42	Peak deleted	Sample:7-211010A27, Compound:TD, RT:24.424	KB211014MB
14-Oct-21	17:24:42	Peak deleted	Sample:7-211010A27, Compound:TD, RT:24.148	KB211014MB
14-Oct-21	17:24:42	Peak deleted	Sample:7-211010A27, Compound:TD, RT:23.900	KB211014MB
14-Oct-21	17:24:42	Peak deleted	Sample:7-211010A27, Compound:TD, RT:23.420	KB211014MB
14-Oct-21	17:24:42	Peak deleted	Sample:7-211010A27, Compound:TD, RT:22.955	KB211014MB
14-Oct-21	17:24:42	Peak deleted	Sample:7-211010A27, Compound:TD, RT:22.329	KB211014MB
14-Oct-21	17:24:42	Peak deleted	Sample:7-211010A27, Compound:TD, RT:21.994	KB211014MB
14-Oct-21	17:24:42	Peak deleted	Sample:7-211010A27, Compound:TD, RT:21.732	KB211014MB
14-Oct-21	17:24:42	Pre modification peak	Sample:7-211010A27, Compound:TD, RT:28.587	
14-Oct-21	17:24:42	Peak modified	Sample:7-211010A27, Compound:TD, RT:28.587	KB211014MB
14-Oct-21	17:25:19	Pre modification peak	Sample:7-211010A28, Compound:TD, RT:28.892	
14-Oct-21	17:25:19	Peak modified	Sample:7-211010A28, Compound:TD, RT:28.892	KB211014MB
14-Oct-21	17:25:19	Pre modification peak	Sample:7-211010A28, Compound:TD, RT:27.903	
14-Oct-21	17:25:19	Peak modified	Sample:7-211010A28, Compound:TD, RT:27.903	KB211014MB
14-Oct-21	17:25:19	Pre modification peak	Sample:7-211010A28, Compound:TD, RT:27.990	
14-Oct-21	17:25:19	Peak modified	Sample:7-211010A28, Compound:TD, RT:27.990	KB211014MB
14-Oct-21	17:25:19	Pre modification peak	Sample:7-211010A28, Compound:TD, RT:27.874	
14-Oct-21	17:25:19	Peak modified	Sample:7-211010A28, Compound:TD, RT:27.874	KB211014MB
14-Oct-21	17:25:19	Pre modification peak	Sample:7-211010A28, Compound:TD, RT:27.553	
14-Oct-21	17:25:19	Peak modified	Sample:7-211010A28, Compound:TD, RT:27.553	KB211014MB
14-Oct-21	17:25:19	Pre modification peak	Sample:7-211010A28, Compound:TD, RT:26.957	
14-Oct-21	17:25:19	Peak modified	Sample:7-211010A28, Compound:TD, RT:26.957	KB211014MB
14-Oct-21	17:25:35	Peak deleted	Sample:7-211010A29, Compound:TD, RT:25.559	
14-Oct-21	17:25:35	Peak deleted	Sample:7-211010A29, Compound:TD, RT:22.169	
14-Oct-21	17:27:07	Pre modification peak	Sample:7-211010A06, Compound:PD, RT:31.661	
14-Oct-21	17:27:07	Peak modified	Sample:7-211010A06, Compound:PD, RT:31.661	KB211014MS
14-Oct-21	17:27:07	Peak added	Sample:7-211010A06, Compound:PD, RT:31.705	KB211014MS
14-Oct-21	17:27:07	Pre modification peak	Sample:7-211010A06, Compound:PD, RT:32.361	
14-Oct-21	17:27:07	Peak modified	Sample:7-211010A06, Compound:PD, RT:32.361	KB211014MS
14-Oct-21	17:27:07	Pre modification peak	Sample:7-211010A06, Compound:PD, RT:31.661	
14-Oct-21	17:27:07	Peak modified	Sample:7-211010A06, Compound:PD, RT:31.661	KB211014MS
14-Oct-21	17:27:07	Peak added	Sample:7-211010A06, Compound:PD, RT:31.694	KB211014MS
14-Oct-21	17:27:07	Peak added	Sample:7-211010A06, Compound:PD, RT:32.383	KB211014MS
14-Oct-21	17:27:37	Pre modification peak	Sample:7-211010A07, Compound:PD, RT:32.372	
14-Oct-21	17:27:37	Peak modified	Sample:7-211010A07, Compound:PD, RT:32.372	KB211014MS
14-Oct-21	17:27:37	Peak added	Sample:7-211010A07, Compound:PD, RT:32.416	KB211014MS
14-Oct-21	17:27:37	Pre modification peak	Sample:7-211010A07, Compound:PD, RT:32.394	

Date	Time	Event	Details	Comments
14-Oct-21	17:27:37	Peak modified	Sample:7-211010A07, Compound:PD, RT:32.394	KB211014MS
14-Oct-21	17:27:37	Pre modification peak	Sample:7-211010A07, Compound:PD, RT:32.361	
14-Oct-21	17:27:37	Peak modified	Sample:7-211010A07, Compound:PD, RT:32.361	KB211014MS
14-Oct-21	17:28:01	Pre modification peak	Sample:7-211010A08, Compound:PD, RT:32.416	
14-Oct-21	17:28:01	Peak modified	Sample:7-211010A08, Compound:PD, RT:32.416	KB211014MS
14-Oct-21	17:28:01	Pre modification peak	Sample:7-211010A08, Compound:PD, RT:32.394	
14-Oct-21	17:28:01	Peak modified	Sample:7-211010A08, Compound:PD, RT:32.394	KB211014MS
14-Oct-21	17:28:01	Pre modification peak	Sample:7-211010A08, Compound:PD, RT:31.694	
14-Oct-21	17:28:01	Peak modified	Sample:7-211010A08, Compound:PD, RT:31.694	KB211014MS
14-Oct-21	17:28:01	Peak added	Sample:7-211010A08, Compound:PD, RT:31.705	KB211014MS
14-Oct-21	17:28:16	Pre modification peak	Sample:7-211010A09, Compound:PD, RT:31.727	
14-Oct-21	17:28:16	Peak modified	Sample:7-211010A09, Compound:PD, RT:31.727	KB211014MS
14-Oct-21	17:28:16	Peak added	Sample:7-211010A09, Compound:PD, RT:31.705	KB211014MS
14-Oct-21	17:28:44	Pre modification peak	Sample:7-211010A10, Compound:PD, RT:32.427	
14-Oct-21	17:28:44	Peak modified	Sample:7-211010A10, Compound:PD, RT:32.427	KB211014MS
14-Oct-21	17:28:44	Peak added	Sample:7-211010A10, Compound:PD, RT:32.460	KB211014MS
14-Oct-21	17:28:44	Pre modification peak	Sample:7-211010A10, Compound:PD, RT:32.427	
14-Oct-21	17:28:44	Peak modified	Sample:7-211010A10, Compound:PD, RT:32.427	KB211014MS
14-Oct-21	17:28:44	Pre modification peak	Sample:7-211010A10, Compound:PD, RT:31.716	
14-Oct-21	17:28:44	Peak modified	Sample:7-211010A10, Compound:PD, RT:31.716	KB211014MS
14-Oct-21	17:28:44	Peak added	Sample:7-211010A10, Compound:PD, RT:31.738	KB211014MS
14-Oct-21	17:28:44	Peak added	Sample:7-211010A10, Compound:PD, RT:32.460	KB211014MS
14-Oct-21	17:29:34	Pre modification peak	Sample:7-211010A12, Compound:PD, RT:31.716	
14-Oct-21	17:29:34	Peak modified	Sample:7-211010A12, Compound:PD, RT:31.716	KB211014MS
14-Oct-21	17:29:34	Pre modification peak	Sample:7-211010A12, Compound:PD, RT:29.790	
14-Oct-21	17:29:34	Peak modified	Sample:7-211010A12, Compound:PD, RT:29.790	KB211014MS
14-Oct-21	17:29:34	Pre modification peak	Sample:7-211010A12, Compound:PD, RT:30.862	
14-Oct-21	17:29:34	Peak modified	Sample:7-211010A12, Compound:PD, RT:30.862	KB211014MS
14-Oct-21	17:29:34	Pre modification peak	Sample:7-211010A12, Compound:PD, RT:32.361	
14-Oct-21	17:29:34	Peak modified	Sample:7-211010A12, Compound:PD, RT:32.361	KB211014MS
14-Oct-21	17:29:34	Peak added	Sample:7-211010A12, Compound:PD, RT:31.683	KB211014MS
14-Oct-21	17:29:34	Peak added	Sample:7-211010A12, Compound:PD, RT:32.416	KB211014MS
14-Oct-21	17:29:34	Pre modification peak	Sample:7-211010A12, Compound:PD, RT:31.694	
14-Oct-21	17:29:34	Peak modified	Sample:7-211010A12, Compound:PD, RT:31.694	KB211014MS
14-Oct-21	17:29:34	Peak added	Sample:7-211010A12, Compound:PD, RT:31.716	KB211014MS
14-Oct-21	17:30:00	Pre modification peak	Sample:7-211010A13, Compound:PD, RT:32.372	
14-Oct-21	17:30:00	Peak modified	Sample:7-211010A13, Compound:PD, RT:32.372	KB211014MS
14-Oct-21	17:30:00	Peak added	Sample:7-211010A13, Compound:PD, RT:32.405	KB211014MS
14-Oct-21	17:30:00	Pre modification peak	Sample:7-211010A13, Compound:PD, RT:31.694	
14-Oct-21	17:30:00	Peak modified	Sample:7-211010A13, Compound:PD, RT:31.694	KB211014MS
14-Oct-21	17:30:00	Peak added	Sample:7-211010A13, Compound:PD, RT:31.738	KB211014MS
14-Oct-21	17:30:42	Pre modification peak	Sample:7-211010A24, Compound:PD, RT:32.471	
14-Oct-21	17:30:42	Peak modified	Sample:7-211010A24, Compound:PD, RT:32.471	KB211014MS
14-Oct-21	17:30:42	Peak added	Sample:7-211010A24, Compound:PD, RT:32.515	KB211014MS
14-Oct-21	17:30:42	Pre modification peak	Sample:7-211010A24, Compound:PD, RT:32.471	
14-Oct-21	17:30:42	Peak modified	Sample:7-211010A24, Compound:PD, RT:32.471	KB211014MS
14-Oct-21	17:30:42	Peak added	Sample:7-211010A24, Compound:PD, RT:32.515	KB211014MS
14-Oct-21	17:31:05	Pre modification peak	Sample:7-211010A25, Compound:PD, RT:32.372	
14-Oct-21	17:31:05	Peak modified	Sample:7-211010A25, Compound:PD, RT:32.372	KB211014MB
14-Oct-21	17:31:05	Pre modification peak	Sample:7-211010A25, Compound:PD, RT:31.683	
14-Oct-21	17:31:05	Peak modified	Sample:7-211010A25, Compound:PD, RT:31.683	KB211014MB
14-Oct-21	17:31:05	Peak added	Sample:7-211010A25, Compound:PD, RT:31.738	KB211014MB
14-Oct-21	17:31:27	Pre modification peak	Sample:7-211010A26, Compound:PD, RT:32.372	

Date	Time	Event	Details	Comments
14-Oct-21	17:31:27	Peak modified	Sample:7-211010A26, Compound:PD, RT:32.372	KB211014MB
14-Oct-21	17:31:27	Pre modification peak	Sample:7-211010A26, Compound:PD, RT:31.672	
14-Oct-21	17:31:27	Peak modified	Sample:7-211010A26, Compound:PD, RT:31.672	KB211014MB
14-Oct-21	17:31:27	Peak added	Sample:7-211010A26, Compound:PD, RT:31.705	KB211014MB
14-Oct-21	17:31:52	Pre modification peak	Sample:7-211010A27, Compound:PD, RT:29.790	
14-Oct-21	17:31:52	Peak modified	Sample:7-211010A27, Compound:PD, RT:29.790	KB211014MB
14-Oct-21	17:31:52	Pre modification peak	Sample:7-211010A27, Compound:PD, RT:31.858	
14-Oct-21	17:31:52	Peak modified	Sample:7-211010A27, Compound:PD, RT:31.858	KB211014MB
14-Oct-21	17:31:52	Pre modification peak	Sample:7-211010A27, Compound:PD, RT:29.790	
14-Oct-21	17:31:52	Peak modified	Sample:7-211010A27, Compound:PD, RT:29.790	KB211014MB
14-Oct-21	17:31:52	Pre modification peak	Sample:7-211010A27, Compound:PD, RT:31.180	
14-Oct-21	17:31:52	Peak modified	Sample:7-211010A27, Compound:PD, RT:31.180	KB211014MB
14-Oct-21	17:32:25	Pre modification peak	Sample:7-211010A28, Compound:PD, RT:31.869	
14-Oct-21	17:32:25	Peak modified	Sample:7-211010A28, Compound:PD, RT:31.869	KB211014MS
14-Oct-21	17:32:25	Pre modification peak	Sample:7-211010A28, Compound:PD, RT:32.372	
14-Oct-21	17:32:25	Peak modified	Sample:7-211010A28, Compound:PD, RT:32.372	KB211014MS
14-Oct-21	17:32:25	Peak deleted	Sample:7-211010A28, Compound:PD, RT:29.790	KB211014MS
14-Oct-21	17:32:25	Peak added	Sample:7-211010A28, Compound:PD, RT:32.438	KB211014MS
14-Oct-21	17:33:20	Pre modification peak	Sample:7-211010A06, Compound:HXD, RT:34.399	
14-Oct-21	17:33:20	Peak modified	Sample:7-211010A06, Compound:HXD, RT:34.399	KB211014MS
14-Oct-21	17:33:20	Peak added	Sample:7-211010A06, Compound:HXD, RT:34.452	KB211014MS
14-Oct-21	17:33:20	Peak added	Sample:7-211010A06, Compound:HXD, RT:34.356	KB211014MS
14-Oct-21	17:33:20	Pre modification peak	Sample:7-211010A06, Compound:HXD, RT:34.526	
14-Oct-21	17:33:20	Peak modified	Sample:7-211010A06, Compound:HXD, RT:34.526	KB211014MS
14-Oct-21	17:33:20	Peak added	Sample:7-211010A06, Compound:HXD, RT:34.494	KB211014MS
14-Oct-21	17:33:53	Pre modification peak	Sample:7-211010A07, Compound:HXD, RT:34.399	
14-Oct-21	17:33:53	Peak modified	Sample:7-211010A07, Compound:HXD, RT:34.399	KB211014MS
14-Oct-21	17:33:53	Peak added	Sample:7-211010A07, Compound:HXD, RT:34.367	KB211014MS
14-Oct-21	17:33:53	Peak added	Sample:7-211010A07, Compound:HXD, RT:34.473	KB211014MS
14-Oct-21	17:33:53	Pre modification peak	Sample:7-211010A07, Compound:HXD, RT:34.399	
14-Oct-21	17:33:53	Peak modified	Sample:7-211010A07, Compound:HXD, RT:34.399	KB211014MS
14-Oct-21	17:33:53	Pre modification peak	Sample:7-211010A07, Compound:HXD, RT:34.526	
14-Oct-21	17:33:53	Peak modified	Sample:7-211010A07, Compound:HXD, RT:34.526	KB211014MS
14-Oct-21	17:33:53	Peak added	Sample:7-211010A07, Compound:HXD, RT:34.473	KB211014MS
14-Oct-21	17:34:29	Pre modification peak	Sample:7-211010A08, Compound:HXD, RT:34.409	
14-Oct-21	17:34:29	Peak modified	Sample:7-211010A08, Compound:HXD, RT:34.409	KB211014MS
14-Oct-21	17:34:29	Peak added	Sample:7-211010A08, Compound:HXD, RT:34.377	KB211014MS
14-Oct-21	17:34:29	Peak added	Sample:7-211010A08, Compound:HXD, RT:34.473	KB211014MS
14-Oct-21	17:34:29	Pre modification peak	Sample:7-211010A08, Compound:HXD, RT:34.409	
14-Oct-21	17:34:29	Peak modified	Sample:7-211010A08, Compound:HXD, RT:34.409	KB211014MS
14-Oct-21	17:34:29	Peak added	Sample:7-211010A08, Compound:HXD, RT:34.377	KB211014MS
14-Oct-21	17:34:29	Peak added	Sample:7-211010A08, Compound:HXD, RT:34.484	KB211014MS
14-Oct-21	17:34:56	Pre modification peak	Sample:7-211010A09, Compound:HXD, RT:34.431	
14-Oct-21	17:34:56	Peak modified	Sample:7-211010A09, Compound:HXD, RT:34.431	KB211014MS
14-Oct-21	17:34:56	Peak added	Sample:7-211010A09, Compound:HXD, RT:34.377	KB211014MS
14-Oct-21	17:34:56	Pre modification peak	Sample:7-211010A09, Compound:HXD, RT:34.558	
14-Oct-21	17:34:56	Peak modified	Sample:7-211010A09, Compound:HXD, RT:34.558	KB211014MS
14-Oct-21	17:34:56	Peak added	Sample:7-211010A09, Compound:HXD, RT:34.515	KB211014MS
14-Oct-21	17:35:29	Pre modification peak	Sample:7-211010A10, Compound:HXD, RT:34.420	
14-Oct-21	17:35:29	Peak modified	Sample:7-211010A10, Compound:HXD, RT:34.420	KB211014MS
14-Oct-21	17:35:29	Peak added	Sample:7-211010A10, Compound:HXD, RT:34.494	KB211014MS
14-Oct-21	17:35:29	Pre modification peak	Sample:7-211010A10, Compound:HXD, RT:34.420	
14-Oct-21	17:35:29	Peak modified	Sample:7-211010A10, Compound:HXD, RT:34.420	KB211014MS

Date	Time	Event	Details	Comments
14-Oct-21	17:35:29	Peak added	Sample:7-211010A10, Compound:HXD, RT:34.388	KB211014MS
14-Oct-21	17:35:29	Peak added	Sample:7-211010A10, Compound:HXD, RT:34.473	KB211014MS
14-Oct-21	17:39:38	Pre modification peak	Sample:7-211010A11, Compound:HXD, RT:34.388	
14-Oct-21	17:39:38	Peak modified	Sample:7-211010A11, Compound:HXD, RT:34.388	KB211014MB
14-Oct-21	17:39:52	Pre modification peak	Sample:7-211010A12, Compound:HXD, RT:34.526	
14-Oct-21	17:39:52	Peak modified	Sample:7-211010A12, Compound:HXD, RT:34.526	KB211014MS
14-Oct-21	17:39:52	Peak deleted	Sample:7-211010A12, Compound:HXD, RT:32.999	KB211014MS
14-Oct-21	17:39:52	Peak added	Sample:7-211010A12, Compound:HXD, RT:34.484	KB211014MS
14-Oct-21	17:40:18	Pre modification peak	Sample:7-211010A13, Compound:HXD, RT:34.526	
14-Oct-21	17:40:18	Peak modified	Sample:7-211010A13, Compound:HXD, RT:34.526	KB211014MS
14-Oct-21	17:40:18	Peak added	Sample:7-211010A13, Compound:HXD, RT:34.484	KB211014MS
14-Oct-21	17:40:18	Pre modification peak	Sample:7-211010A13, Compound:HXD, RT:34.526	
14-Oct-21	17:40:18	Peak modified	Sample:7-211010A13, Compound:HXD, RT:34.526	KB211014MS
14-Oct-21	17:40:18	Peak added	Sample:7-211010A13, Compound:HXD, RT:34.484	KB211014MS
14-Oct-21	17:40:32	Peak deleted	Sample:7-211010A19, Compound:HXD, RT:33.264	
14-Oct-21	17:40:45	Peak deleted	Sample:7-211010A22, Compound:HXD, RT:34.505	
14-Oct-21	17:40:45	Peak deleted	Sample:7-211010A22, Compound:HXD, RT:34.229	
14-Oct-21	17:40:45	Peak deleted	Sample:7-211010A22, Compound:HXD, RT:33.911	
14-Oct-21	17:40:45	Peak deleted	Sample:7-211010A22, Compound:HXD, RT:33.836	
14-Oct-21	17:40:45	Peak deleted	Sample:7-211010A22, Compound:HXD, RT:33.243	
14-Oct-21	17:40:50	Peak deleted	Sample:7-211010A23, Compound:HXD, RT:33.253	
14-Oct-21	17:41:05	Pre modification peak	Sample:7-211010A24, Compound:HXD, RT:34.579	
14-Oct-21	17:41:05	Peak modified	Sample:7-211010A24, Compound:HXD, RT:34.579	KB211014MS
14-Oct-21	17:41:05	Peak added	Sample:7-211010A24, Compound:HXD, RT:34.547	KB211014MS
14-Oct-21	17:41:41	Pre modification peak	Sample:7-211010A25, Compound:HXD, RT:34.409	
14-Oct-21	17:41:41	Peak modified	Sample:7-211010A25, Compound:HXD, RT:34.409	KB211014MS
14-Oct-21	17:41:41	Peak added	Sample:7-211010A25, Compound:HXD, RT:34.377	KB211014MS
14-Oct-21	17:41:41	Pre modification peak	Sample:7-211010A25, Compound:HXD, RT:34.409	
14-Oct-21	17:41:41	Peak modified	Sample:7-211010A25, Compound:HXD, RT:34.409	KB211014MS
14-Oct-21	17:41:41	Peak added	Sample:7-211010A25, Compound:HXD, RT:34.367	KB211014MS
14-Oct-21	17:41:53	Pre modification peak	Sample:7-211010A25, Compound:HXD, RT:34.536	
14-Oct-21	17:41:53	Peak modified	Sample:7-211010A25, Compound:HXD, RT:34.536	KB211014MA
14-Oct-21	17:41:53	Peak added	Sample:7-211010A25, Compound:HXD, RT:34.484	KB211014MA
14-Oct-21	17:42:07	Pre modification peak	Sample:7-211010A26, Compound:HXD, RT:34.536	
14-Oct-21	17:42:07	Peak modified	Sample:7-211010A26, Compound:HXD, RT:34.536	KB211014MS
14-Oct-21	17:42:07	Peak added	Sample:7-211010A26, Compound:HXD, RT:34.515	KB211014MS
14-Oct-21	17:42:33	Pre modification peak	Sample:7-211010A27, Compound:HXD, RT:34.399	
14-Oct-21	17:42:33	Peak modified	Sample:7-211010A27, Compound:HXD, RT:34.399	KB211014MS
14-Oct-21	17:42:33	Peak added	Sample:7-211010A27, Compound:HXD, RT:34.356	KB211014MS
14-Oct-21	17:42:33	Pre modification peak	Sample:7-211010A27, Compound:HXD, RT:34.536	
14-Oct-21	17:42:33	Peak modified	Sample:7-211010A27, Compound:HXD, RT:34.536	KB211014MS
14-Oct-21	17:42:33	Peak added	Sample:7-211010A27, Compound:HXD, RT:34.494	KB211014MS
14-Oct-21	17:43:07	Pre modification peak	Sample:7-211010A28, Compound:HXD, RT:34.547	
14-Oct-21	17:43:07	Peak modified	Sample:7-211010A28, Compound:HXD, RT:34.547	KB211014MS
14-Oct-21	17:43:07	Pre modification peak	Sample:7-211010A28, Compound:HXD, RT:34.420	
14-Oct-21	17:43:07	Peak modified	Sample:7-211010A28, Compound:HXD, RT:34.420	KB211014MS
14-Oct-21	17:43:07	Peak added	Sample:7-211010A28, Compound:HXD, RT:34.388	KB211014MS
14-Oct-21	17:43:07	Peak added	Sample:7-211010A28, Compound:HXD, RT:34.515	KB211014MS
14-Oct-21	17:43:07	Pre modification peak	Sample:7-211010A28, Compound:HXD, RT:34.420	
14-Oct-21	17:43:07	Peak modified	Sample:7-211010A28, Compound:HXD, RT:34.420	KB211014MS
14-Oct-21	17:43:07	Peak deleted	Sample:7-211010A28, Compound:HXD, RT:33.264	KB211014MS
14-Oct-21	17:43:07	Peak added	Sample:7-211010A28, Compound:HXD, RT:34.494	KB211014MS
14-Oct-21	17:43:24	Peak deleted	Sample:7-211010A29, Compound:HXD, RT:32.893	KB211014MJ

Quantify Audit Report MassLynx MassLynx V4.1 SCN 901

Dataset: I:\Organics Instrument\HIGHRES GCMS Completed Results Files\HR-7\2021\2110\7-211010A-1015KB.qld

Last Altered: Friday, October 15, 2021 09:46:05 Eastern Daylight Time
Printed: Friday, October 15, 2021 11:39:37 Eastern Daylight Time

Date	Time	Event	Details	Comments
14-Oct-21	17:43:24	Pre modification peak	Sample:7-211010A29, Compound:HXD, RT:33.890	
14-Oct-21	17:43:24	Peak modified	Sample:7-211010A29, Compound:HXD, RT:33.890	KB211014MJ
14-Oct-21	17:43:24	Peak deleted	Sample:7-211010A29, Compound:HXD, RT:33.264	KB211014MJ
14-Oct-21	17:43:42	Peak deleted	Sample:7-211010A02, Compound:HPD, RT:36.465	
14-Oct-21	17:43:42	Peak deleted	Sample:7-211010A02, Compound:HPD, RT:36.421	
14-Oct-21	17:43:42	Peak deleted	Sample:7-211010A02, Compound:HPD, RT:36.322	
14-Oct-21	17:43:42	Peak deleted	Sample:7-211010A02, Compound:HPD, RT:36.257	
14-Oct-21	17:43:42	Peak deleted	Sample:7-211010A02, Compound:HPD, RT:36.596	
14-Oct-21	17:43:49	Peak deleted	Sample:7-211010A06, Compound:HPD, RT:36.443	
14-Oct-21	17:43:49	Peak deleted	Sample:7-211010A06, Compound:HPD, RT:36.246	
14-Oct-21	17:43:49	Peak deleted	Sample:7-211010A06, Compound:HPD, RT:35.852	
14-Oct-21	17:43:54	Peak deleted	Sample:7-211010A07, Compound:HPD, RT:36.530	
14-Oct-21	17:43:54	Peak deleted	Sample:7-211010A07, Compound:HPD, RT:36.377	
14-Oct-21	17:43:54	Peak deleted	Sample:7-211010A07, Compound:HPD, RT:35.907	
14-Oct-21	17:43:54	Peak deleted	Sample:7-211010A07, Compound:HPD, RT:35.852	
14-Oct-21	17:44:01	Peak deleted	Sample:7-211010A08, Compound:HPD, RT:36.662	
14-Oct-21	17:44:01	Peak deleted	Sample:7-211010A08, Compound:HPD, RT:36.607	
14-Oct-21	17:44:01	Peak deleted	Sample:7-211010A08, Compound:HPD, RT:36.345	
14-Oct-21	17:44:01	Peak deleted	Sample:7-211010A08, Compound:HPD, RT:36.235	
14-Oct-21	17:44:01	Peak deleted	Sample:7-211010A08, Compound:HPD, RT:35.874	
14-Oct-21	17:44:08	Peak deleted	Sample:7-211010A09, Compound:HPD, RT:36.345	
14-Oct-21	17:44:08	Peak deleted	Sample:7-211010A09, Compound:HPD, RT:36.268	
14-Oct-21	17:44:08	Peak deleted	Sample:7-211010A09, Compound:HPD, RT:35.907	
14-Oct-21	17:44:08	Peak deleted	Sample:7-211010A09, Compound:HPD, RT:35.830	
14-Oct-21	17:44:08	Peak deleted	Sample:7-211010A09, Compound:HPD, RT:35.776	
14-Oct-21	17:44:12	Peak deleted	Sample:7-211010A10, Compound:HPD, RT:36.312	
14-Oct-21	17:44:12	Peak deleted	Sample:7-211010A10, Compound:HPD, RT:36.246	
14-Oct-21	17:44:18	Peak deleted	Sample:7-211010A11, Compound:HPD, RT:35.808	
14-Oct-21	17:44:18	Peak deleted	Sample:7-211010A11, Compound:HPD, RT:35.764	
14-Oct-21	17:44:18	Peak deleted	Sample:7-211010A11, Compound:HPD, RT:36.268	
14-Oct-21	17:44:18	Peak deleted	Sample:7-211010A11, Compound:HPD, RT:36.224	
14-Oct-21	17:44:18	Peak deleted	Sample:7-211010A11, Compound:HPD, RT:36.137	
14-Oct-21	17:44:25	Peak deleted	Sample:7-211010A12, Compound:HPD, RT:35.776	
14-Oct-21	17:44:25	Peak deleted	Sample:7-211010A12, Compound:HPD, RT:36.651	
14-Oct-21	17:44:25	Peak deleted	Sample:7-211010A12, Compound:HPD, RT:36.399	
14-Oct-21	17:44:25	Peak deleted	Sample:7-211010A12, Compound:HPD, RT:35.830	
14-Oct-21	17:44:31	Peak deleted	Sample:7-211010A13, Compound:HPD, RT:36.618	
14-Oct-21	17:44:31	Peak deleted	Sample:7-211010A13, Compound:HPD, RT:36.388	
14-Oct-21	17:44:31	Peak deleted	Sample:7-211010A13, Compound:HPD, RT:36.323	
14-Oct-21	17:44:31	Peak deleted	Sample:7-211010A13, Compound:HPD, RT:36.279	
14-Oct-21	17:44:31	Peak deleted	Sample:7-211010A13, Compound:HPD, RT:35.830	
14-Oct-21	17:44:31	Peak deleted	Sample:7-211010A13, Compound:HPD, RT:35.764	
14-Oct-21	17:44:36	Peak deleted	Sample:7-211010A14, Compound:HPD, RT:36.377	
14-Oct-21	17:44:36	Peak deleted	Sample:7-211010A14, Compound:HPD, RT:36.191	
14-Oct-21	17:44:36	Peak deleted	Sample:7-211010A14, Compound:HPD, RT:35.918	
14-Oct-21	17:44:39	Peak deleted	Sample:7-211010A15, Compound:HPD, RT:35.830	
14-Oct-21	17:44:39	Peak deleted	Sample:7-211010A15, Compound:HPD, RT:35.776	
14-Oct-21	17:44:43	Peak deleted	Sample:7-211010A18, Compound:HPD, RT:36.268	
14-Oct-21	17:44:50	Peak deleted	Sample:7-211010A19, Compound:HPD, RT:36.640	
14-Oct-21	17:44:50	Peak deleted	Sample:7-211010A19, Compound:HPD, RT:36.585	
14-Oct-21	17:44:50	Peak deleted	Sample:7-211010A19, Compound:HPD, RT:36.542	
14-Oct-21	17:44:50	Peak deleted	Sample:7-211010A19, Compound:HPD, RT:36.498	
14-Oct-21	17:44:50	Peak deleted	Sample:7-211010A19, Compound:HPD, RT:36.443	

Quantify Audit Report MassLynx MassLynx V4.1 SCN 901

Dataset: I:\Organics Instrument\HIGHRES GCMS Completed Results Files\HR-7\2021\2110\7-211010A-1015KB.qld

Last Altered: Friday, October 15, 2021 09:46:05 Eastern Daylight Time
Printed: Friday, October 15, 2021 11:39:37 Eastern Daylight Time

Date	Time	Event	Details	Comments
14-Oct-21	17:44:50	Peak deleted	Sample:7-211010A19, Compound:HPD, RT:36.322	
14-Oct-21	17:44:50	Peak deleted	Sample:7-211010A19, Compound:HPD, RT:36.257	
14-Oct-21	17:44:50	Peak deleted	Sample:7-211010A19, Compound:HPD, RT:35.918	
14-Oct-21	17:44:50	Peak deleted	Sample:7-211010A19, Compound:HPD, RT:35.458	
14-Oct-21	17:44:58	Peak deleted	Sample:7-211010A22, Compound:HPD, RT:35.994	
14-Oct-21	17:44:58	Peak deleted	Sample:7-211010A22, Compound:HPD, RT:36.345	
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14-Oct-21	17:45:09	Peak deleted	Sample:7-211010A24, Compound:HPD, RT:36.180	
14-Oct-21	17:45:12	Peak deleted	Sample:7-211010A25, Compound:HPD, RT:36.706	
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14-Oct-21	17:45:23	Peak deleted	Sample:7-211010A27, Compound:HPD, RT:35.732	
14-Oct-21	17:45:29	Peak deleted	Sample:7-211010A28, Compound:HPD, RT:36.695	
14-Oct-21	17:45:29	Peak deleted	Sample:7-211010A28, Compound:HPD, RT:36.552	
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14-Oct-21	17:45:40	Pre modification peak	Sample:7-211010A29, Compound:HPD, RT:36.049	
14-Oct-21	17:45:40	Peak modified	Sample:7-211010A29, Compound:HPD, RT:36.049	KB211014MJ
14-Oct-21	17:45:40	Peak deleted	Sample:7-211010A29, Compound:HPD, RT:35.042	KB211014MJ
14-Oct-21	17:45:40	Peak deleted	Sample:7-211010A29, Compound:HPD, RT:36.596	KB211014MJ
14-Oct-21	17:45:40	Peak deleted	Sample:7-211010A29, Compound:HPD, RT:35.469	KB211014MJ
14-Oct-21	17:46:22	Pre modification peak	Sample:7-211010A23, Compound:OCD, RT:37.566	
14-Oct-21	17:46:22	Peak modified	Sample:7-211010A23, Compound:OCD, RT:37.566	KB211014MJ
14-Oct-21	17:46:22	Peak deleted	Sample:7-211010A23, Compound:OCD, RT:37.504	KB211014MJ
14-Oct-21	17:46:45	Pre modification peak	Sample:7-211010A29, Compound:OCD, RT:37.566	
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14-Oct-21	17:46:45	Pre modification peak	Sample:7-211010A29, Compound:OCD, RT:36.841	
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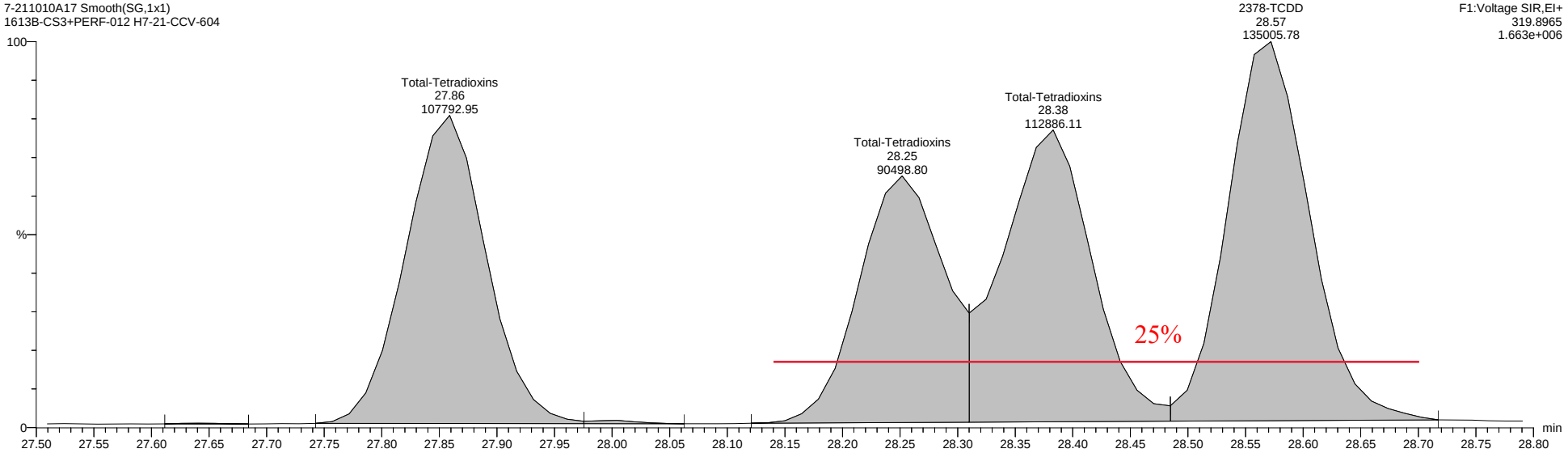
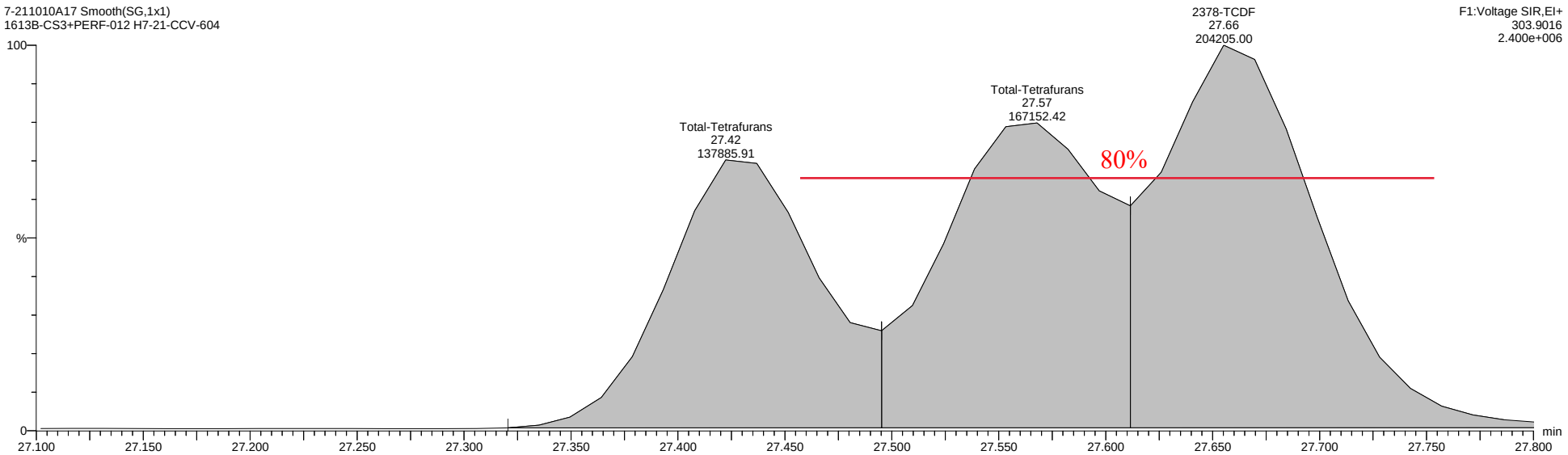
Name: 7-211010A17, Date: 10-Oct-2021, Time: 19:49:25, ID: H7-21-CCV-604, Description: 1613B-CS3+PERF-012, Vial: Tray1:1





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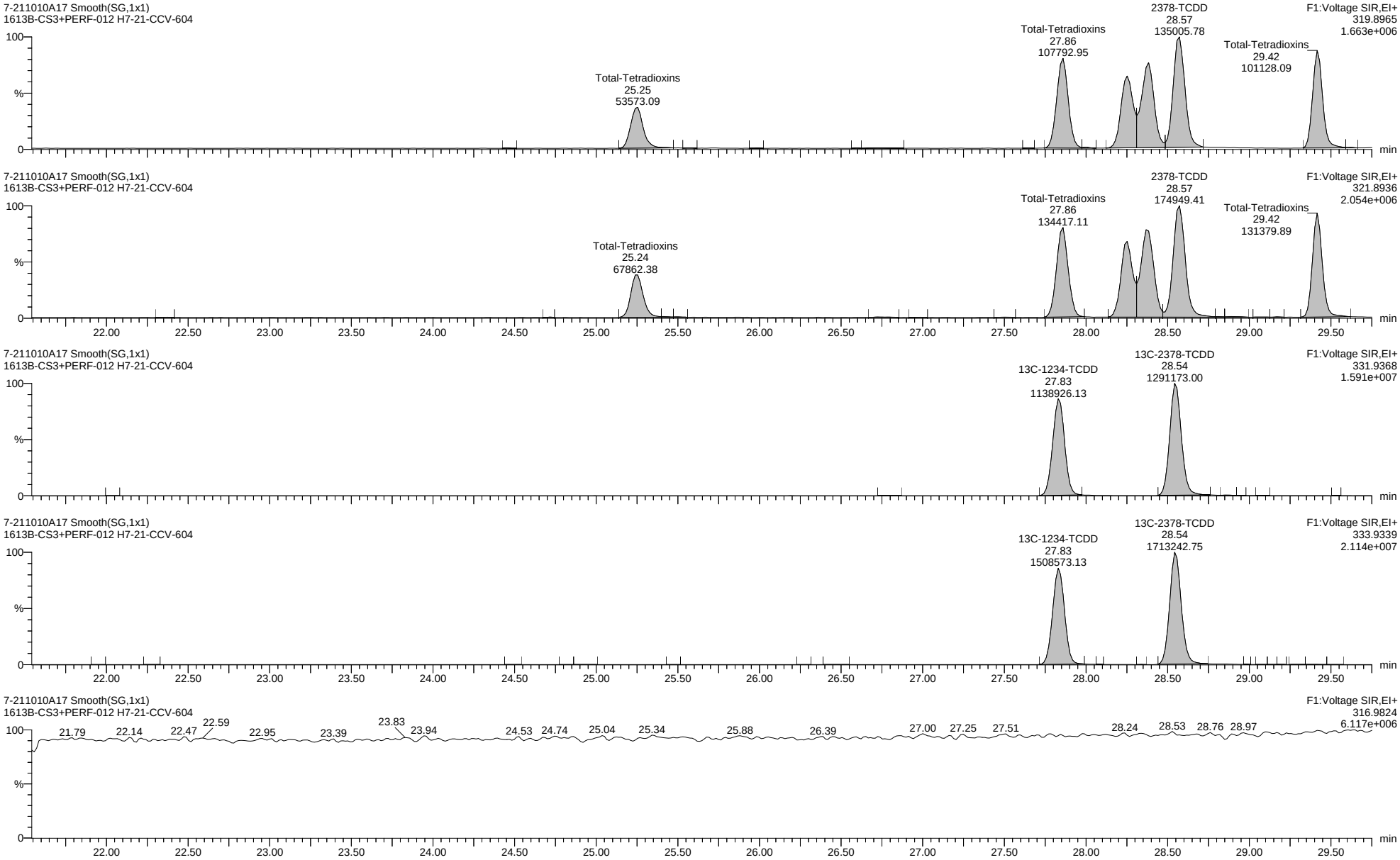

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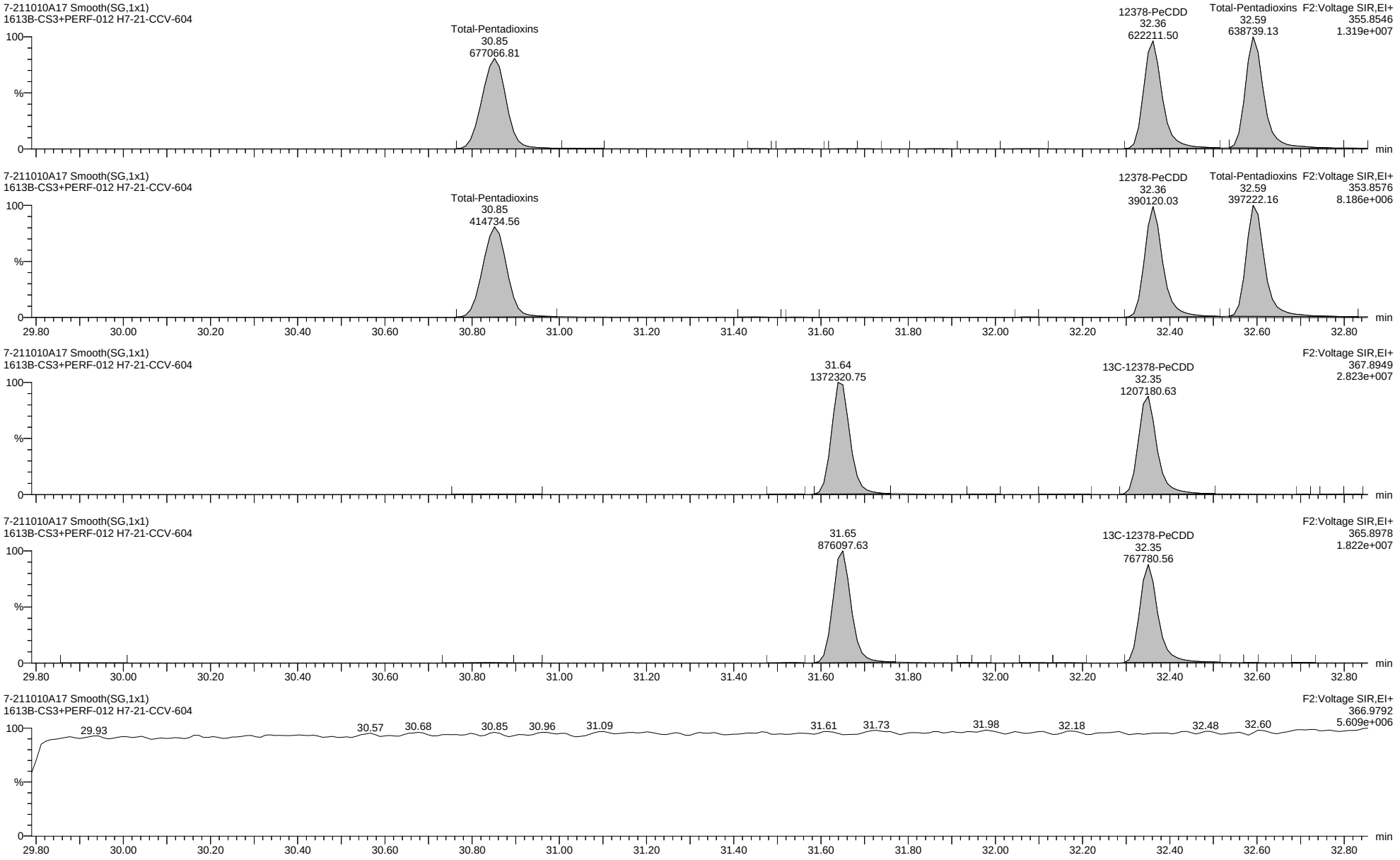

Quantify Sample Template Report **MassLynx MassLynx V4.1 SCN 901**

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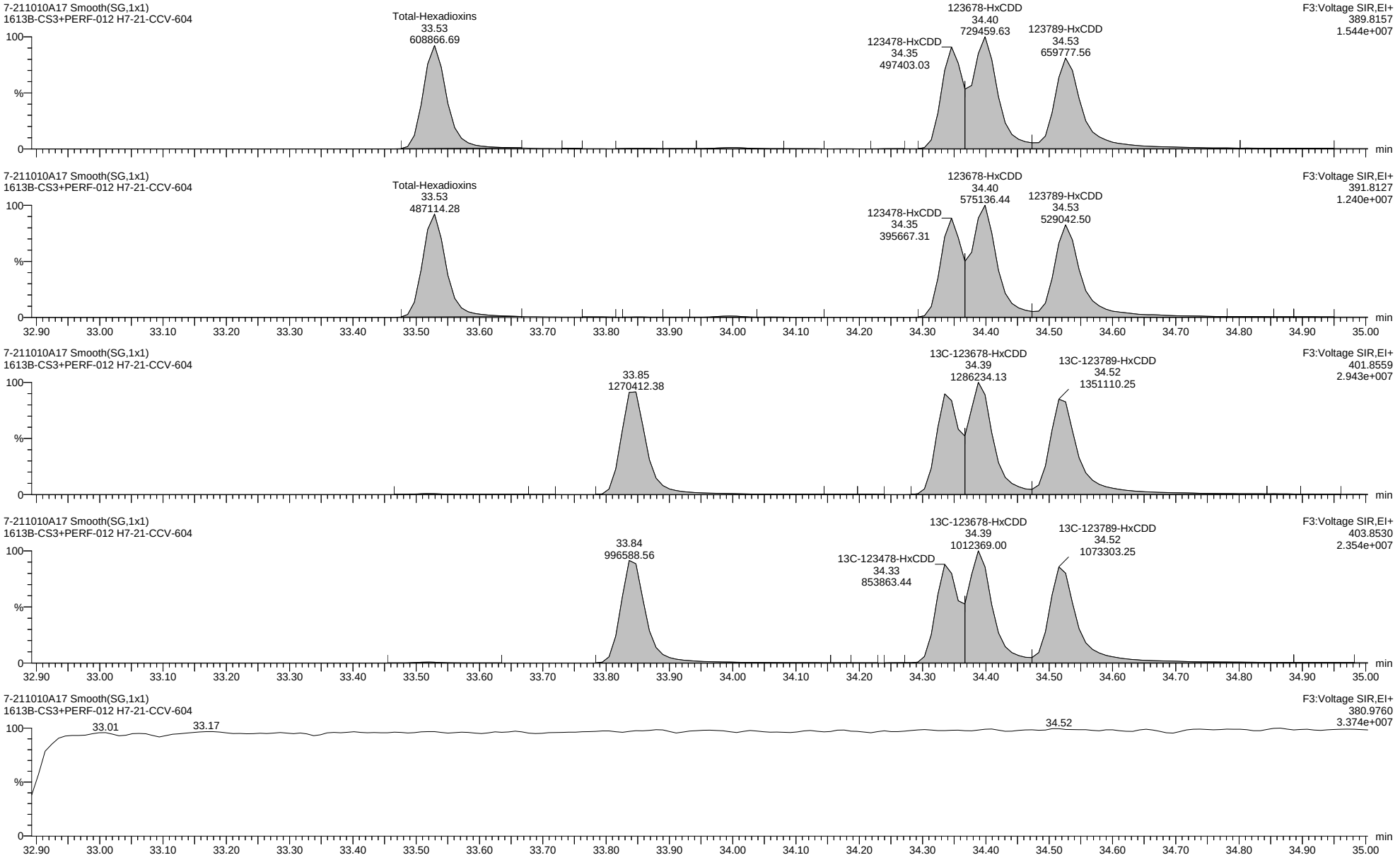

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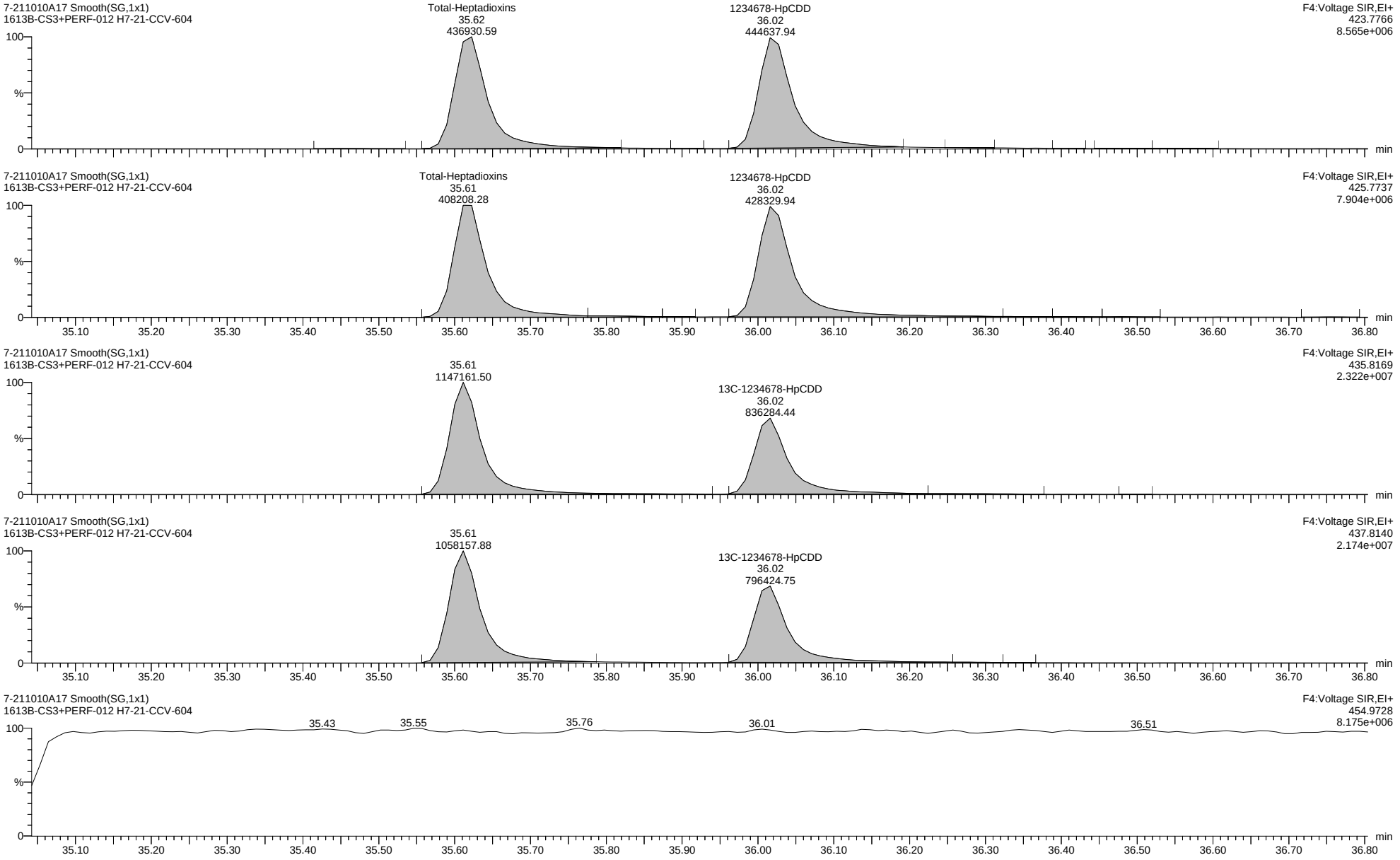

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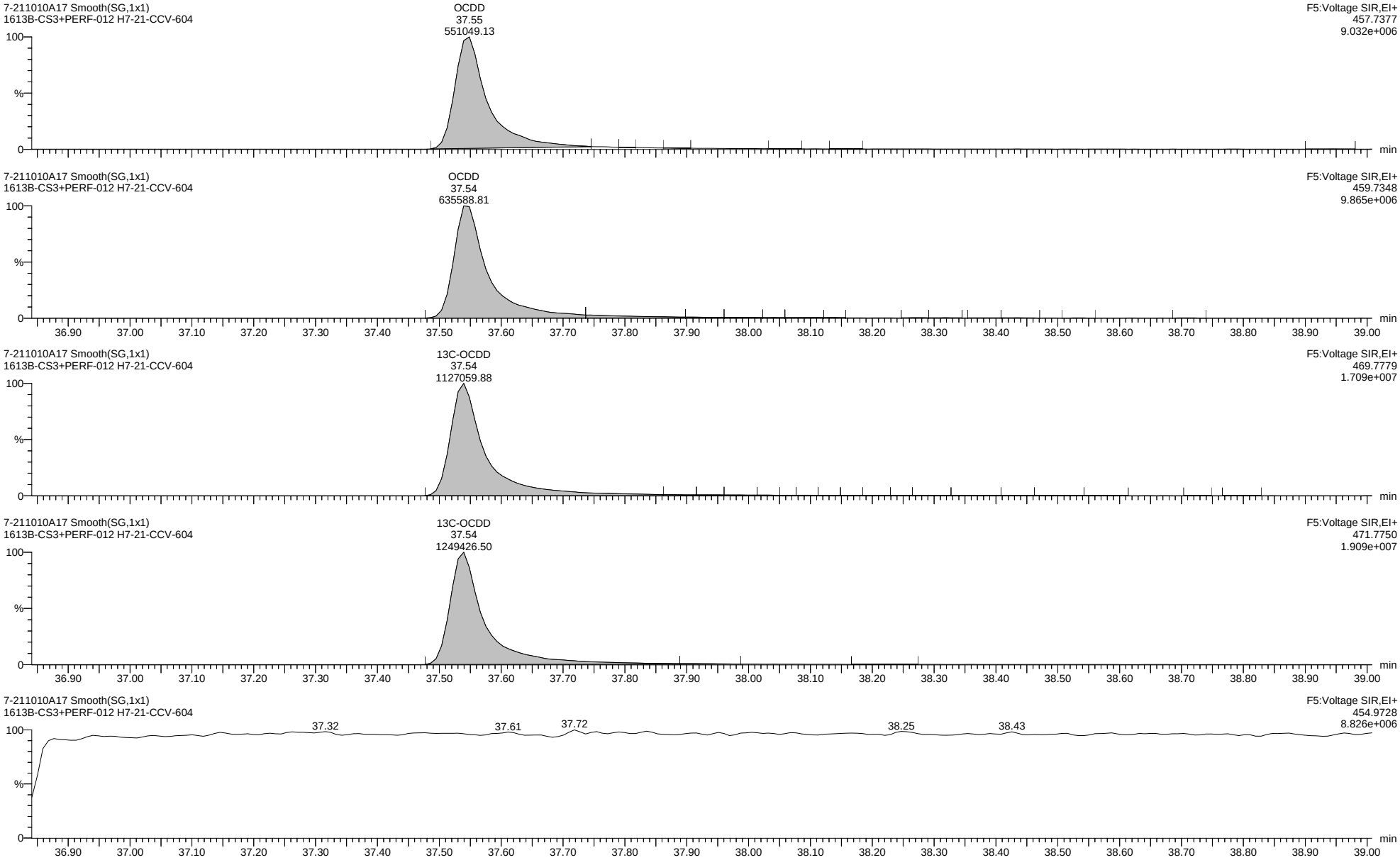

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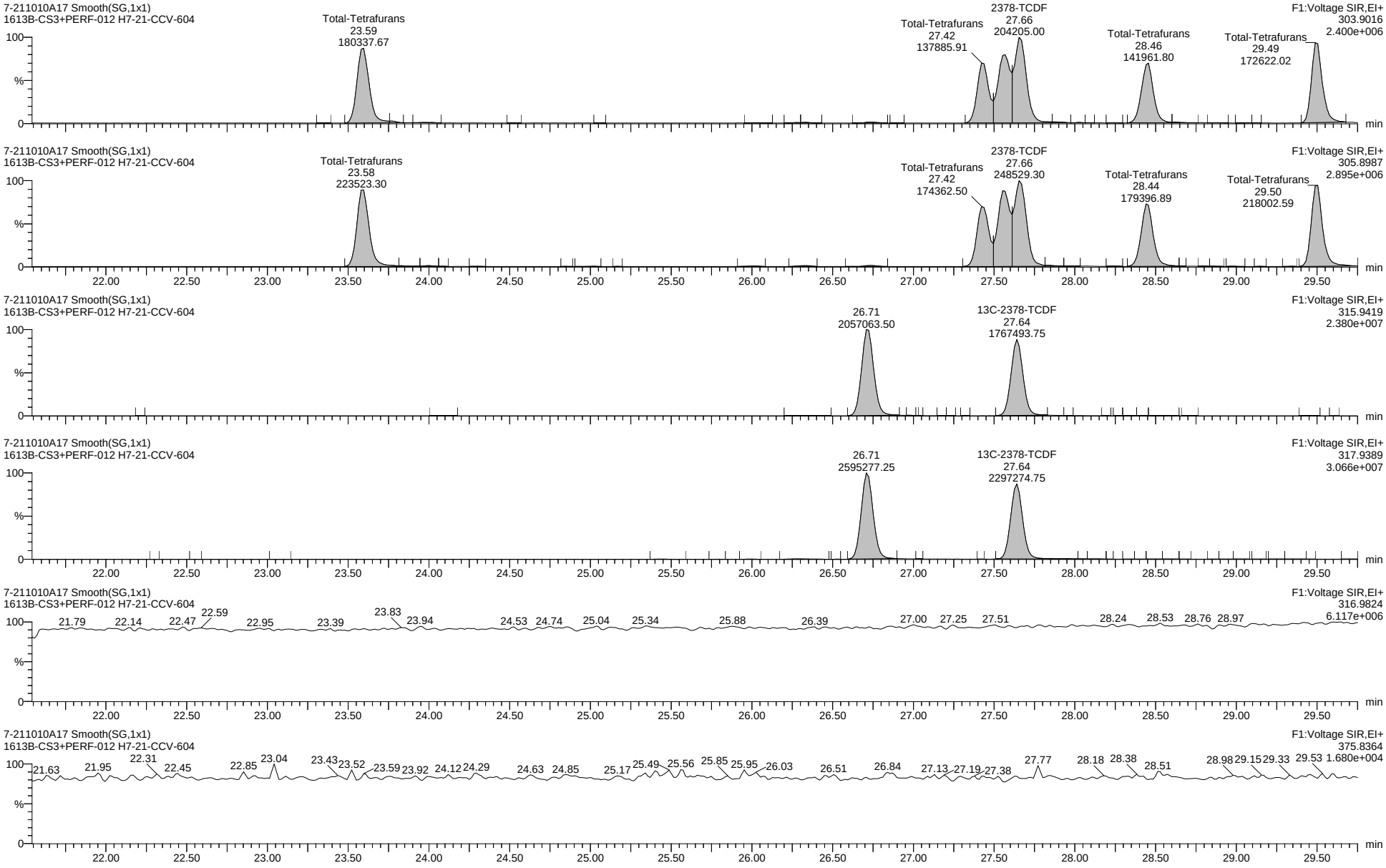

Quantify Sample Template Report **MassLynx MassLynx V4.1 SCN 901**

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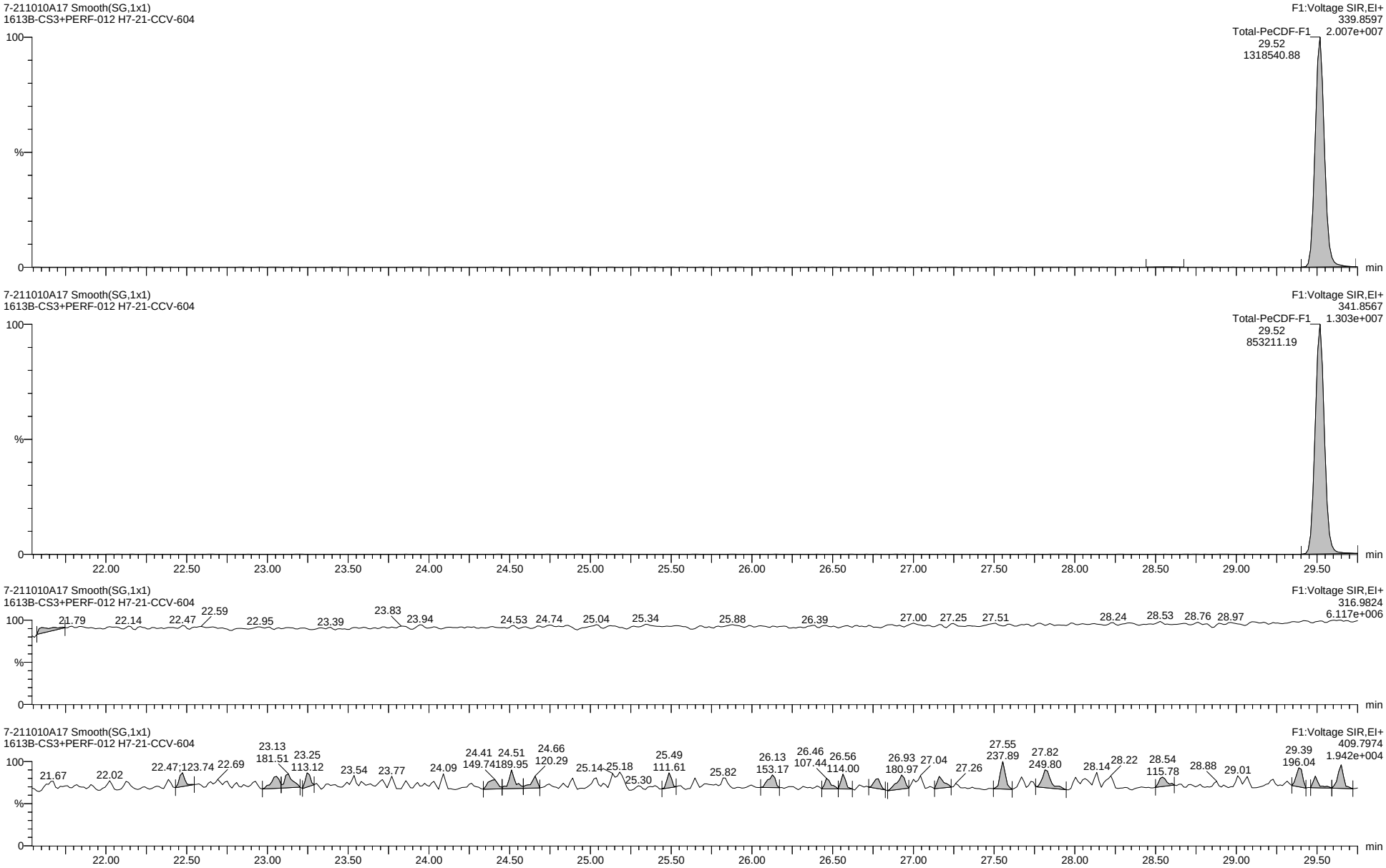

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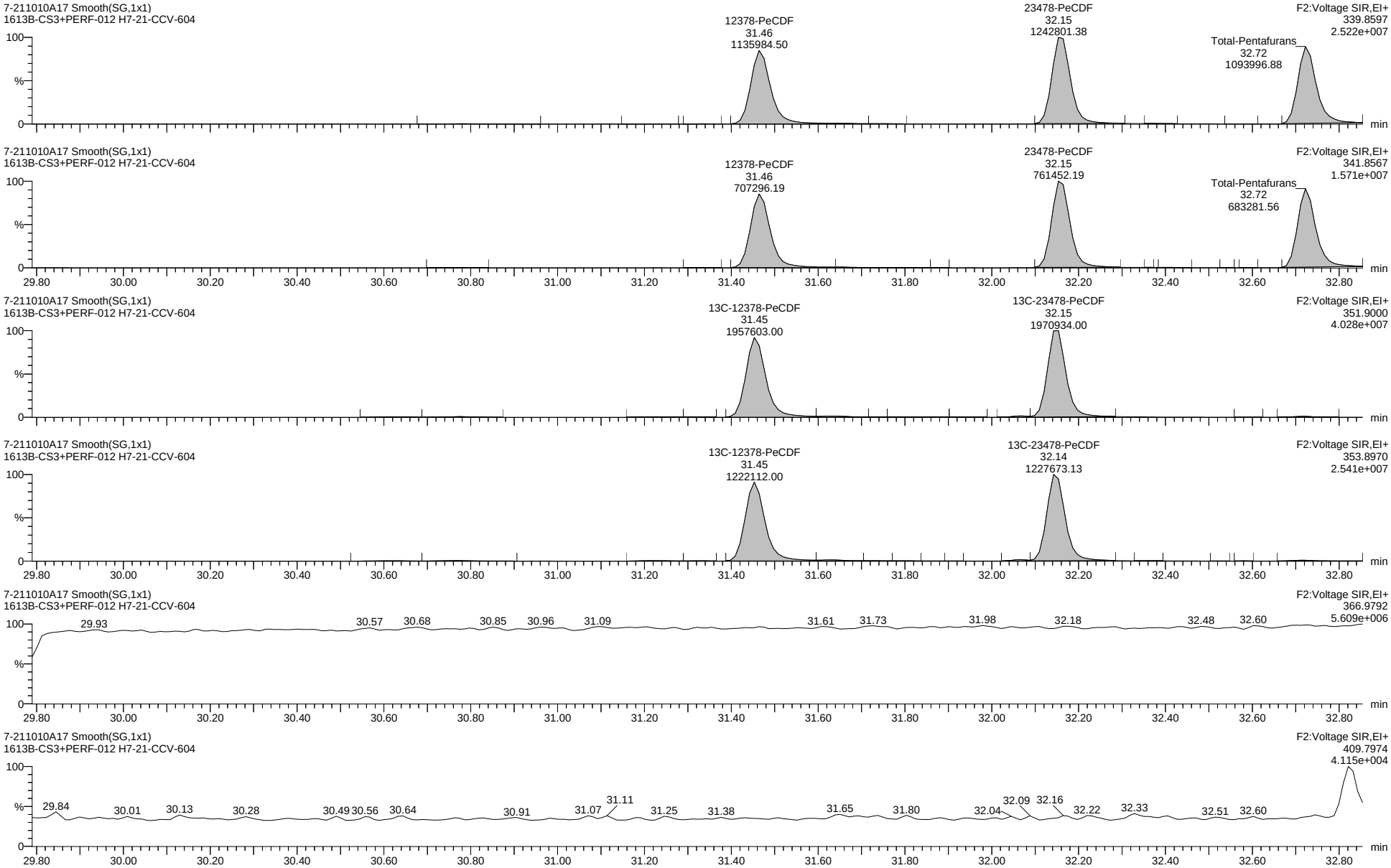

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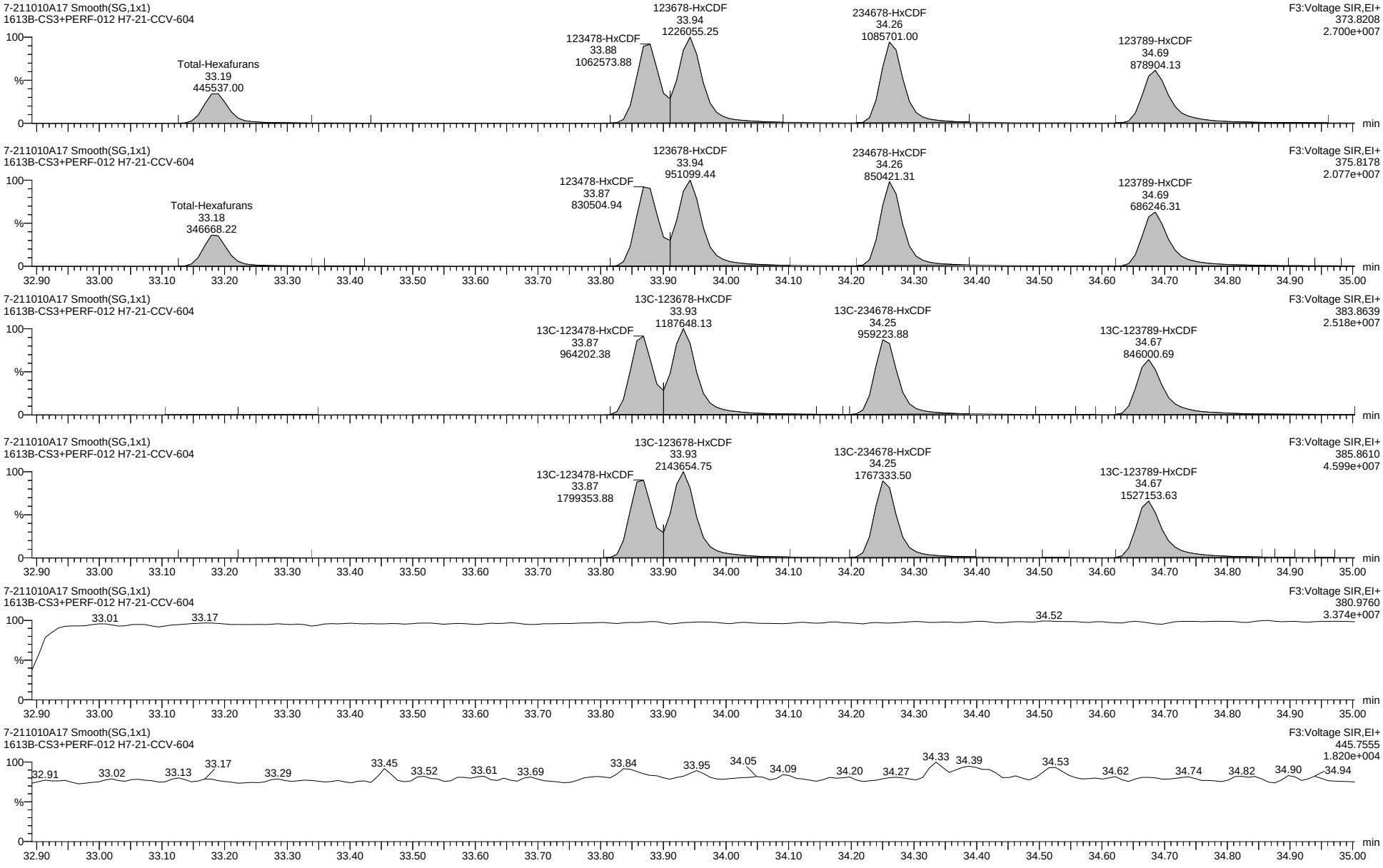

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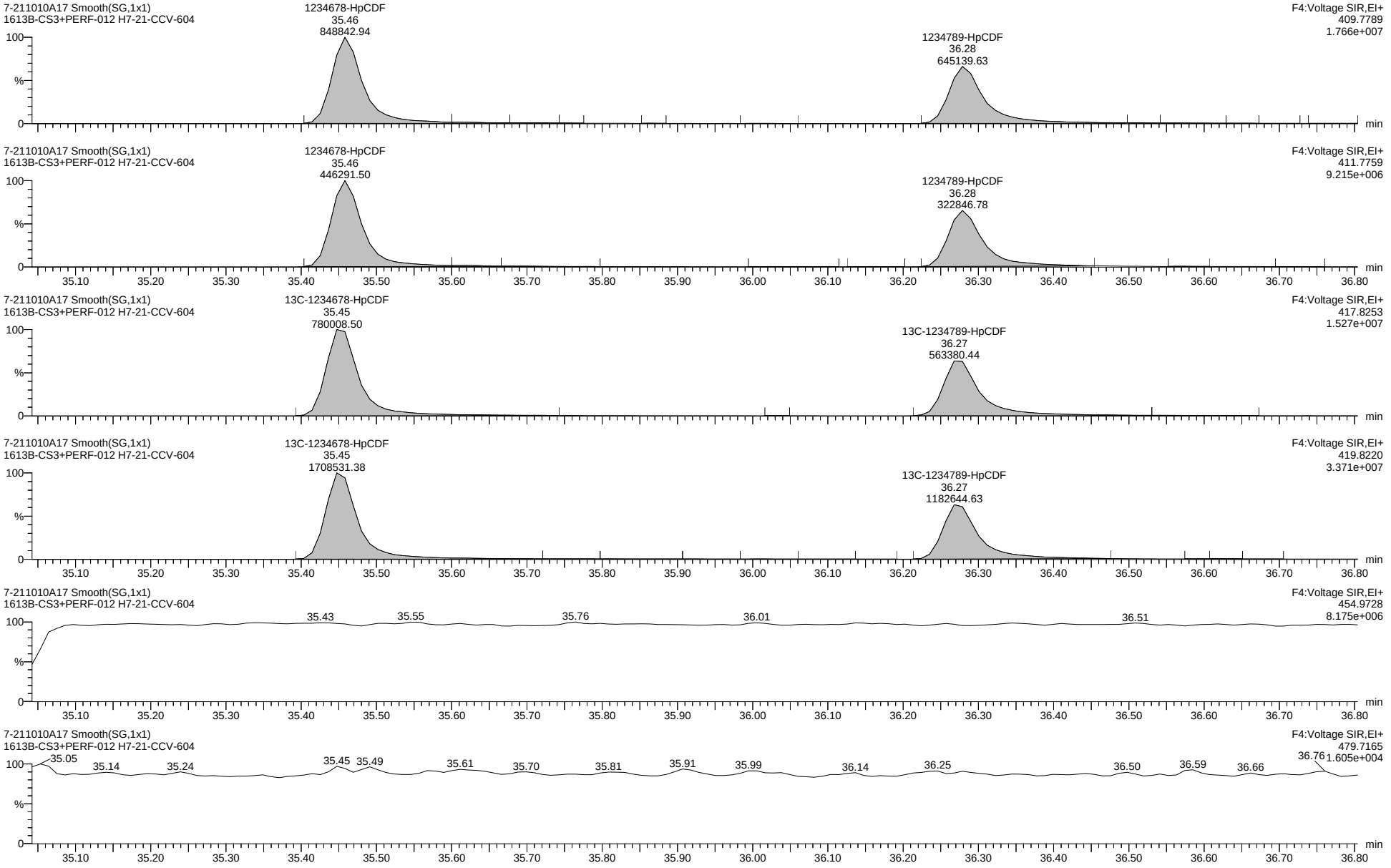

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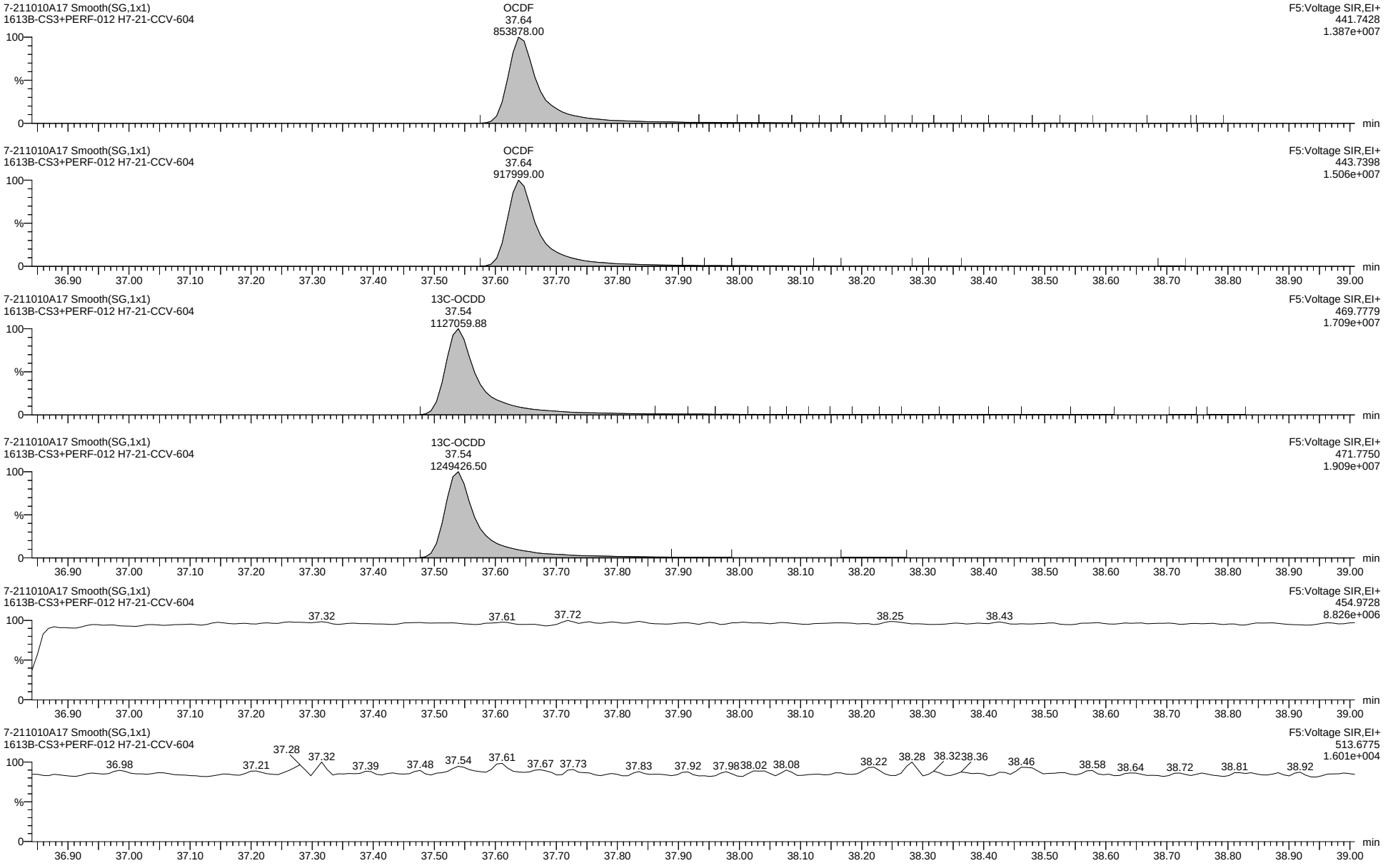

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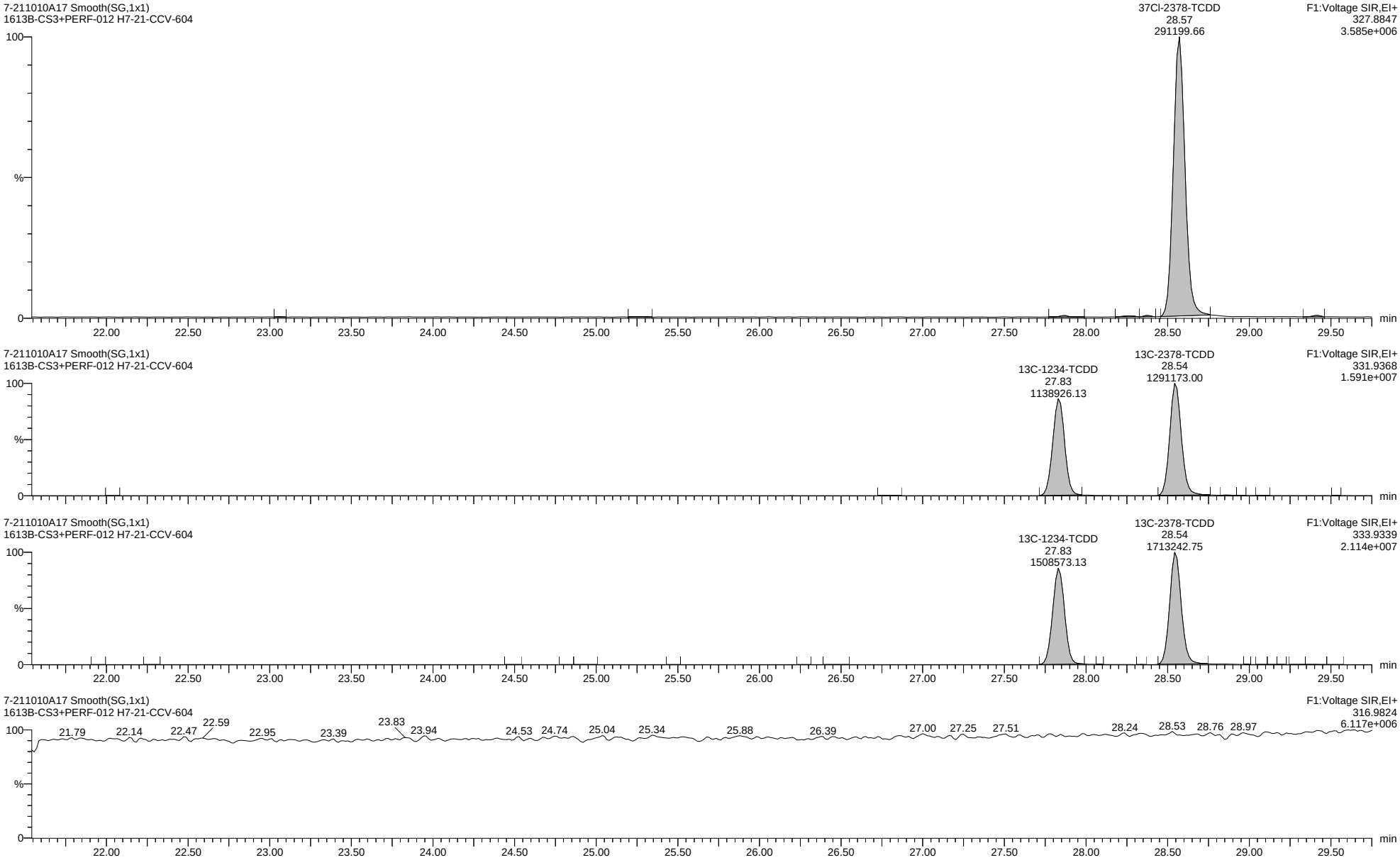

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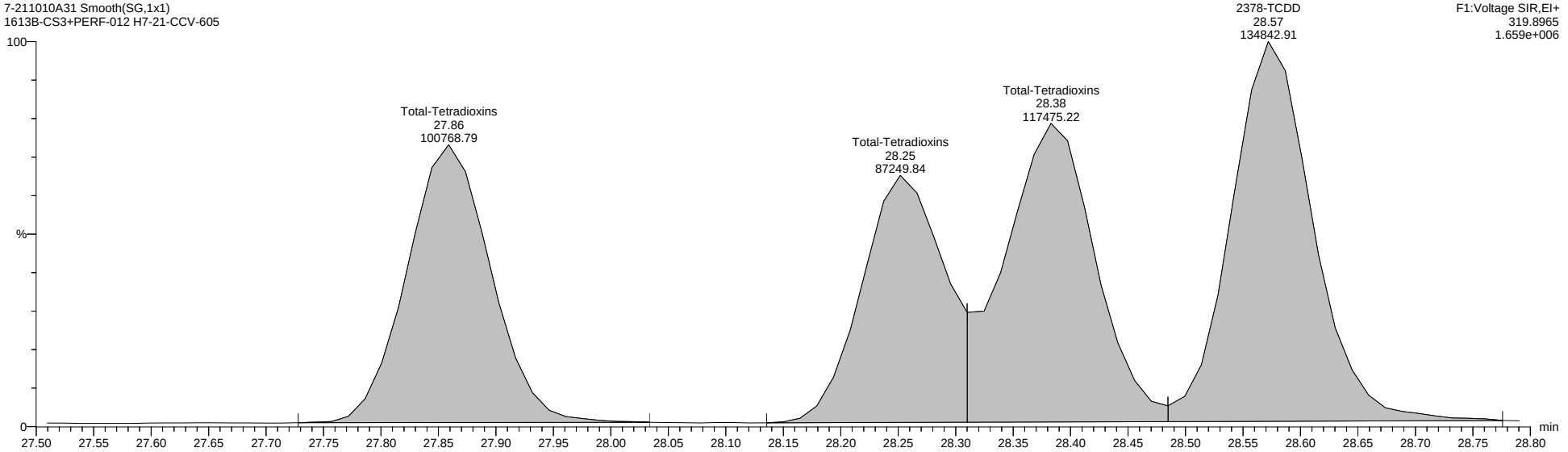

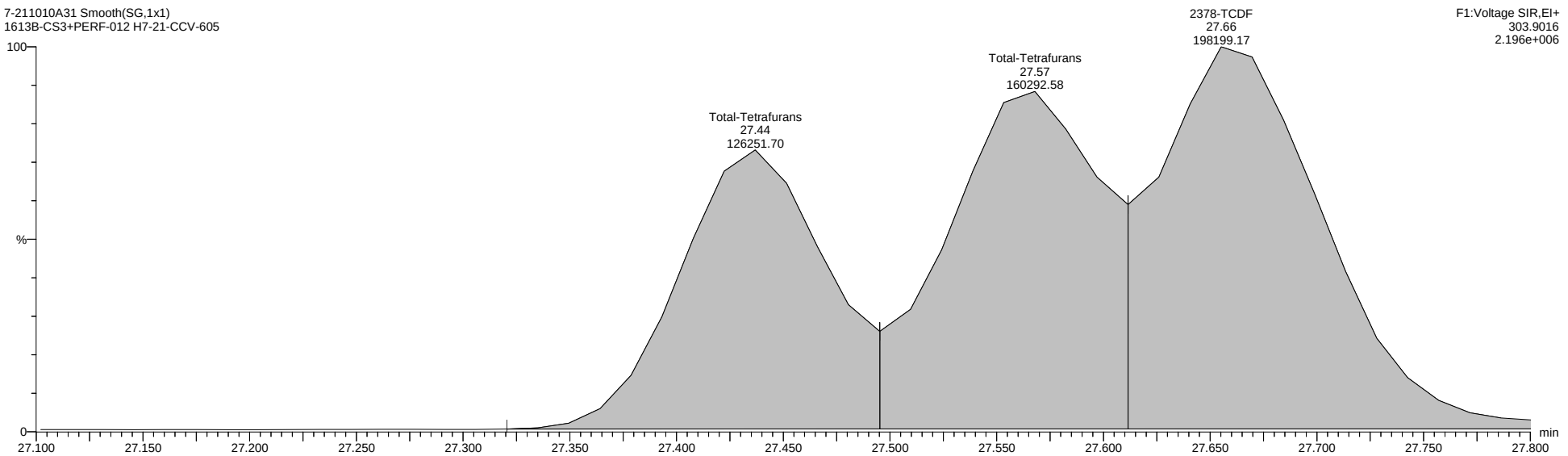

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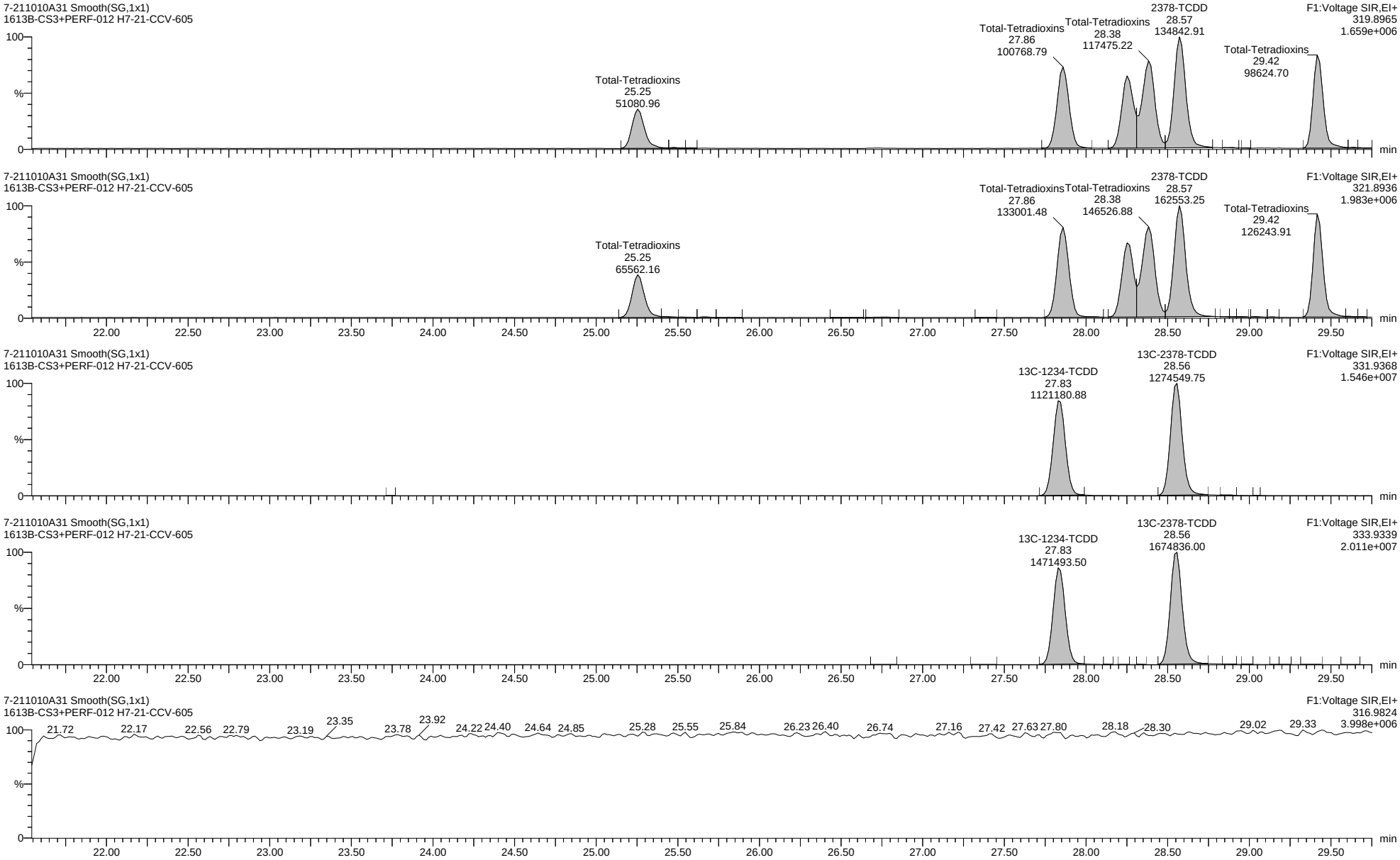

Quantify Sample Template Report **MassLynx MassLynx V4.1 SCN 901**

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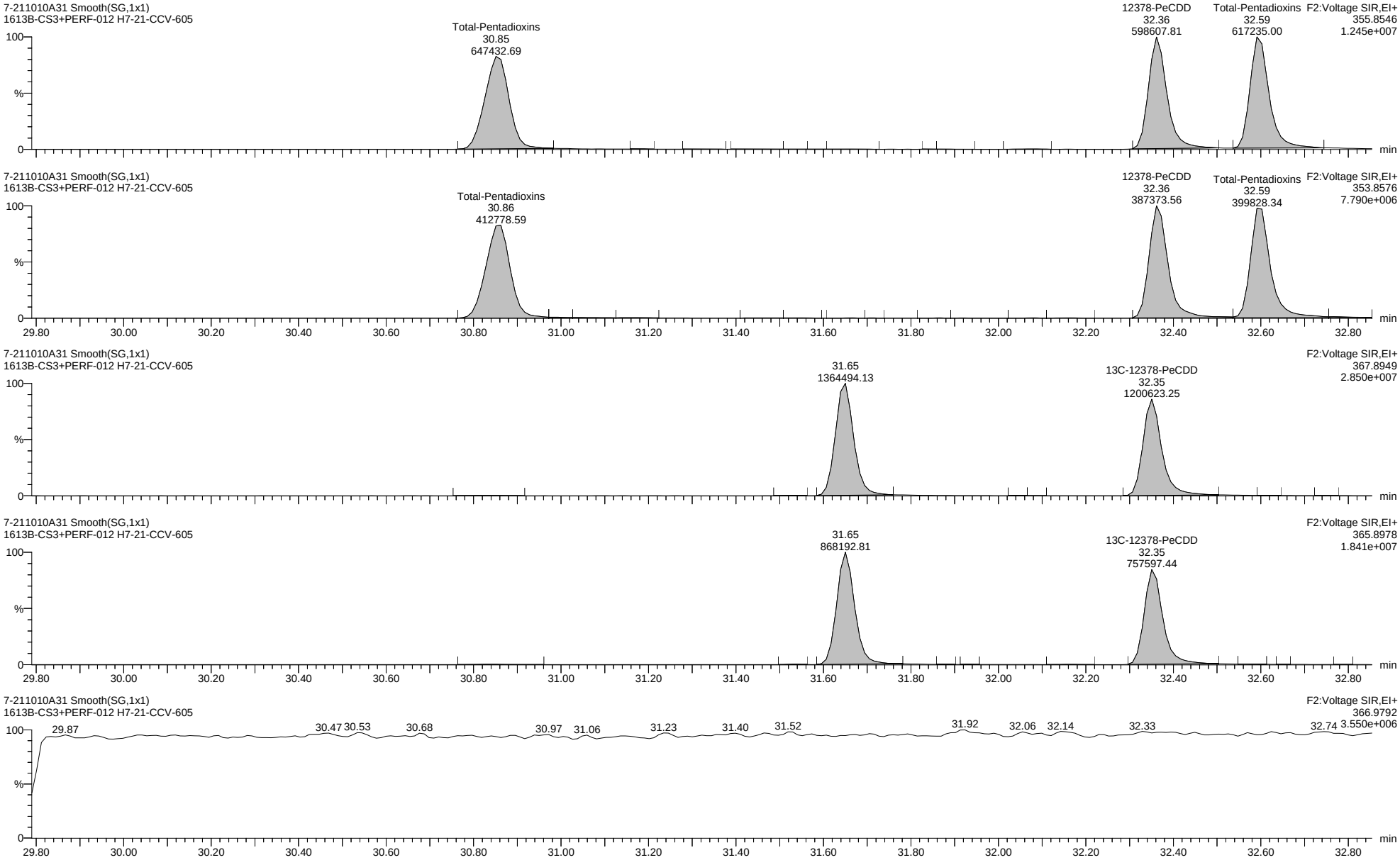

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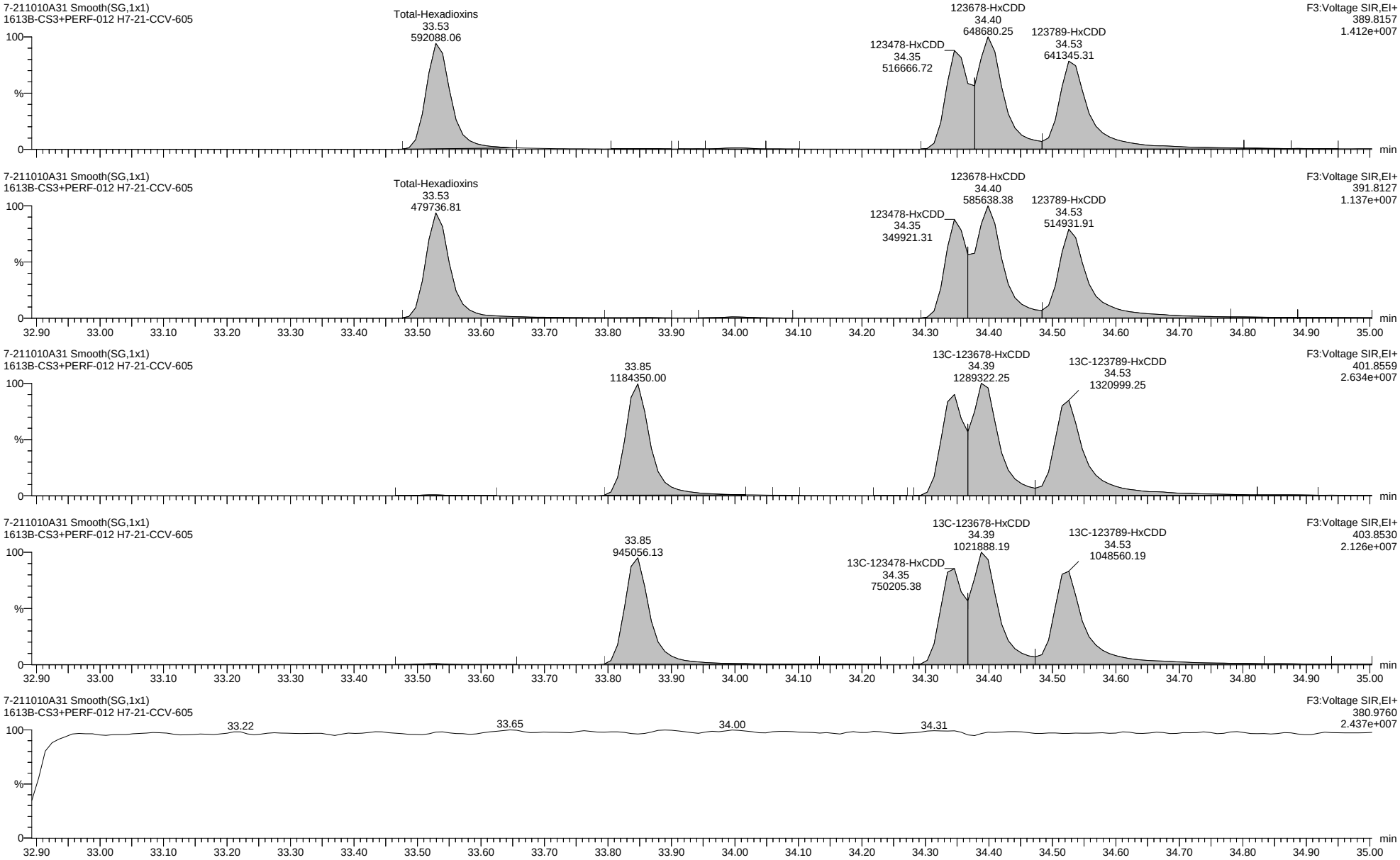

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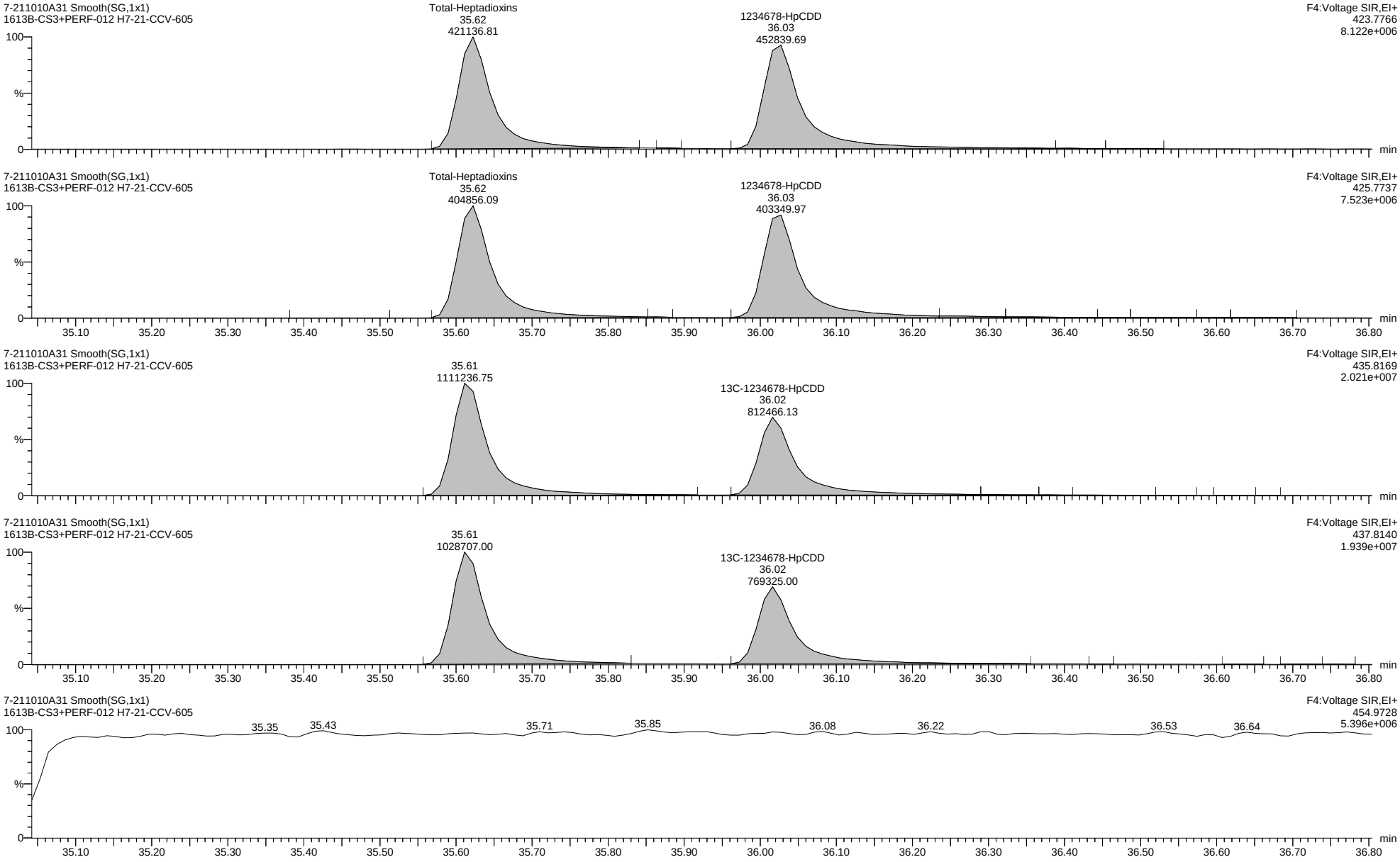

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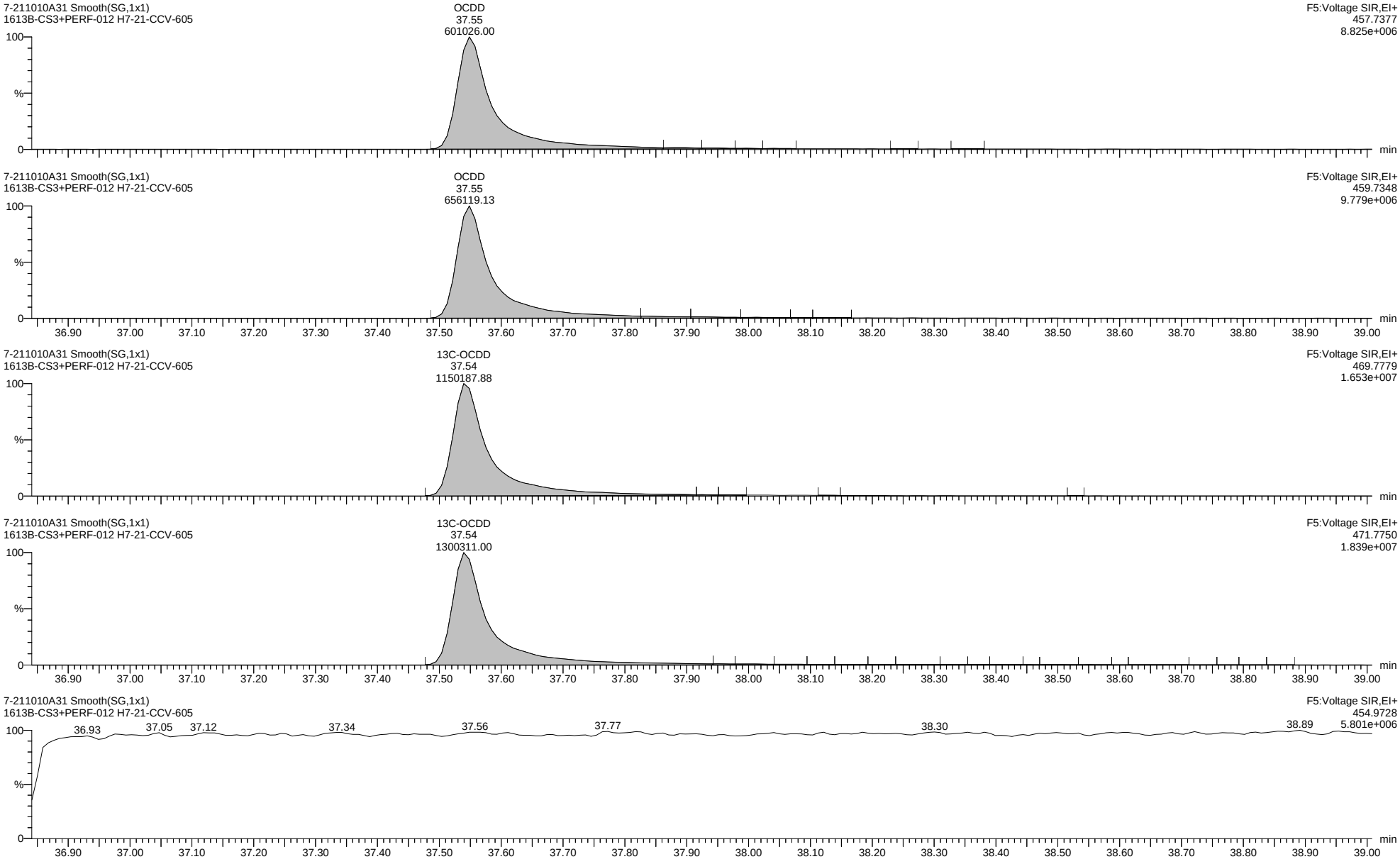

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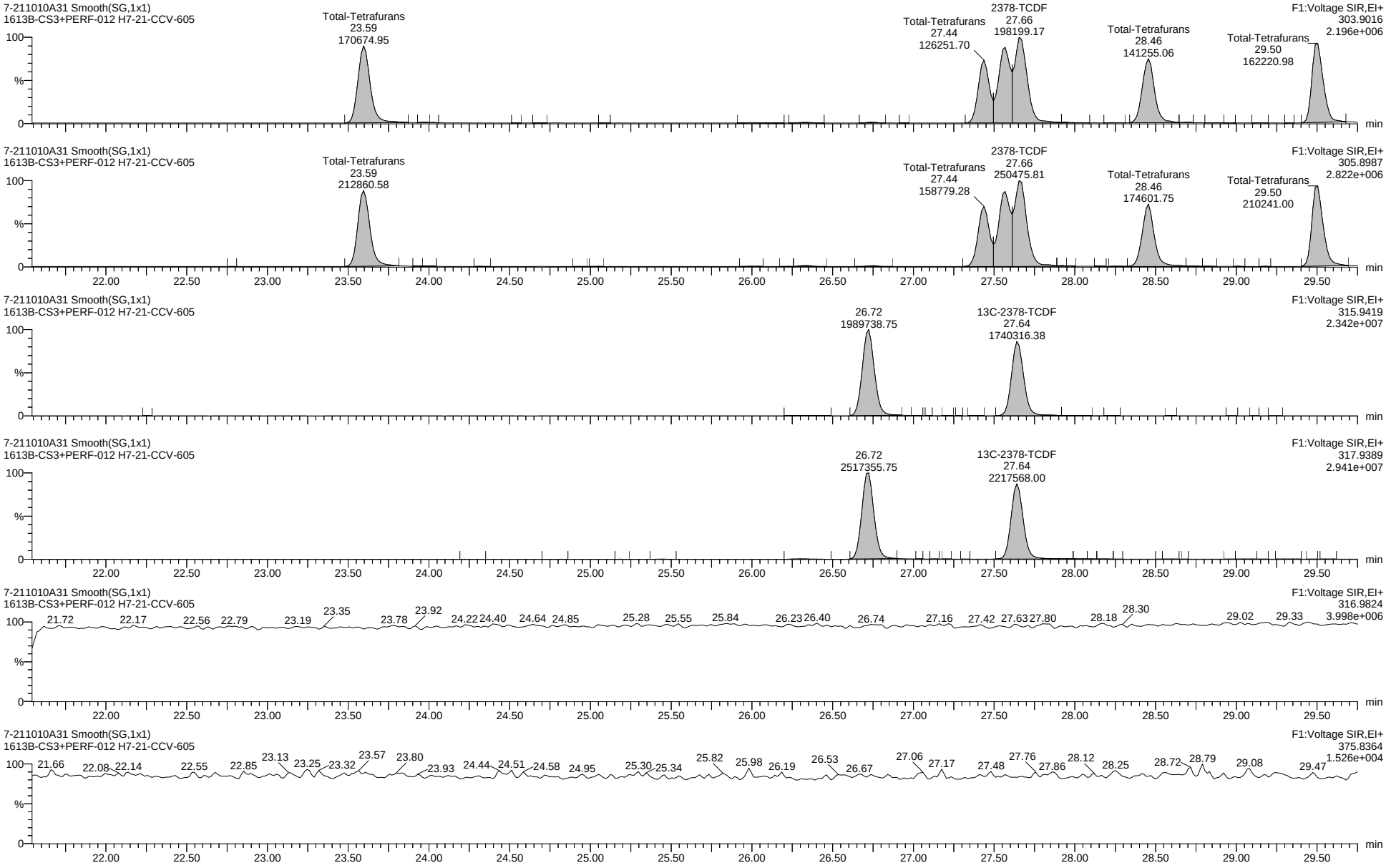

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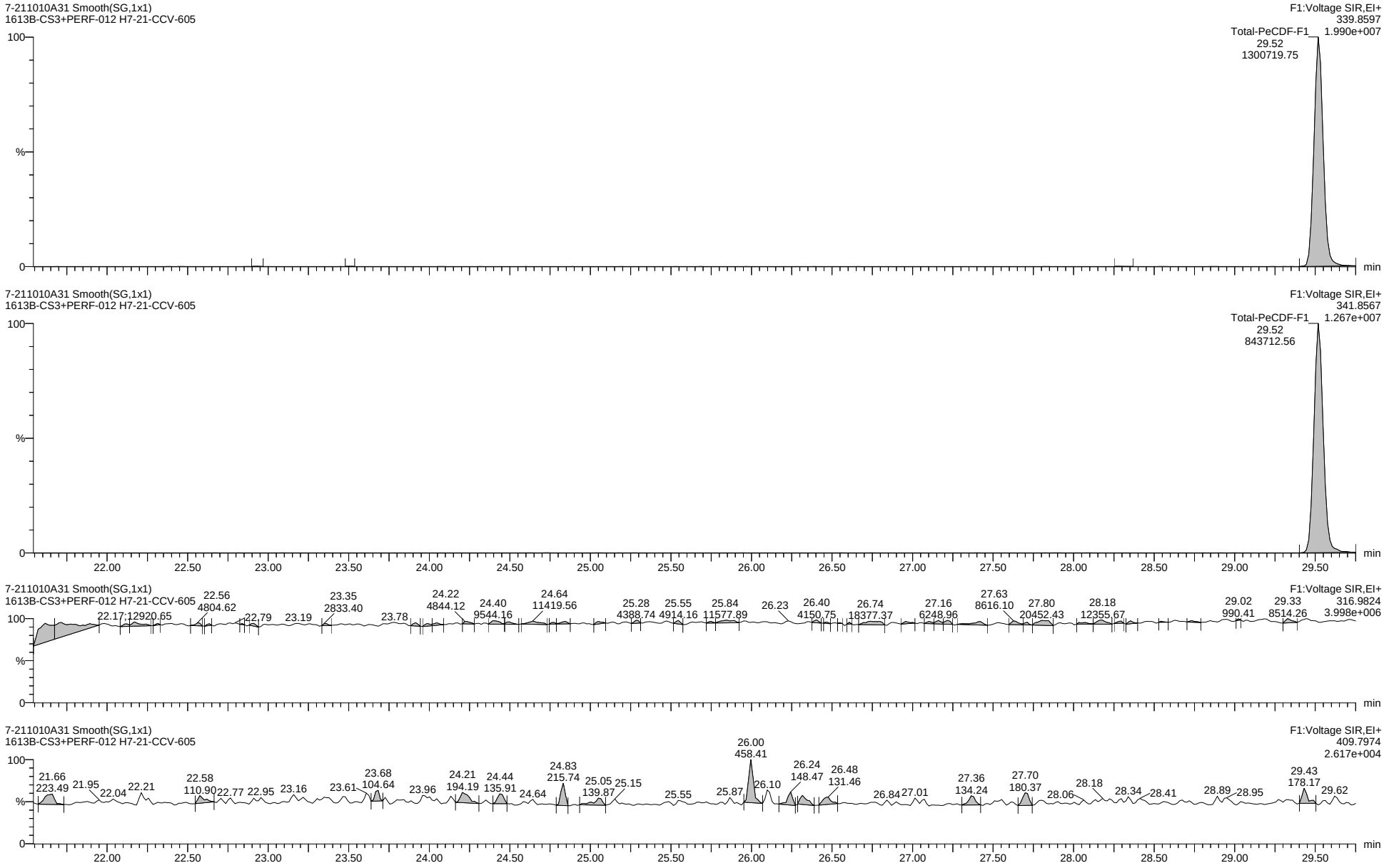

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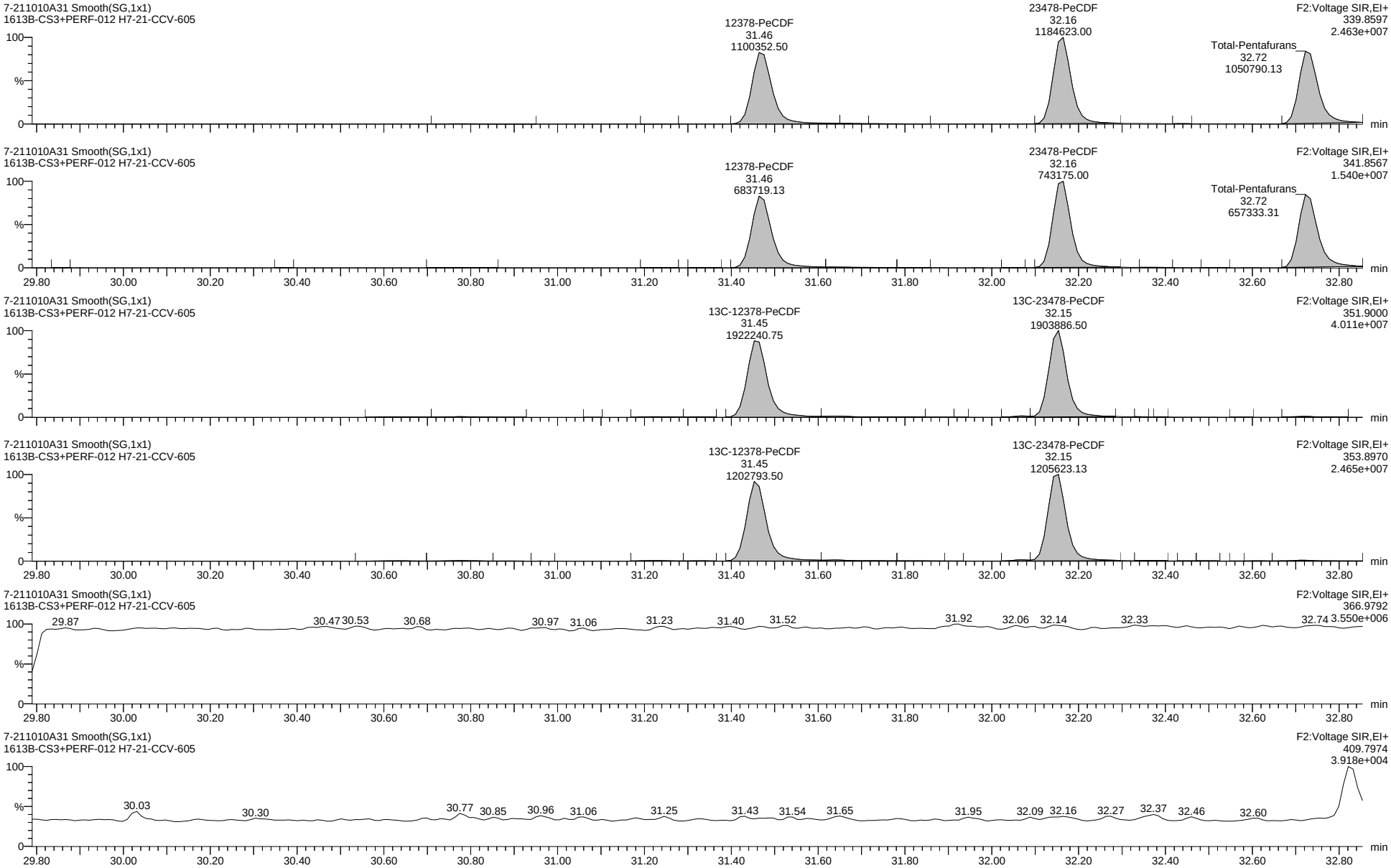

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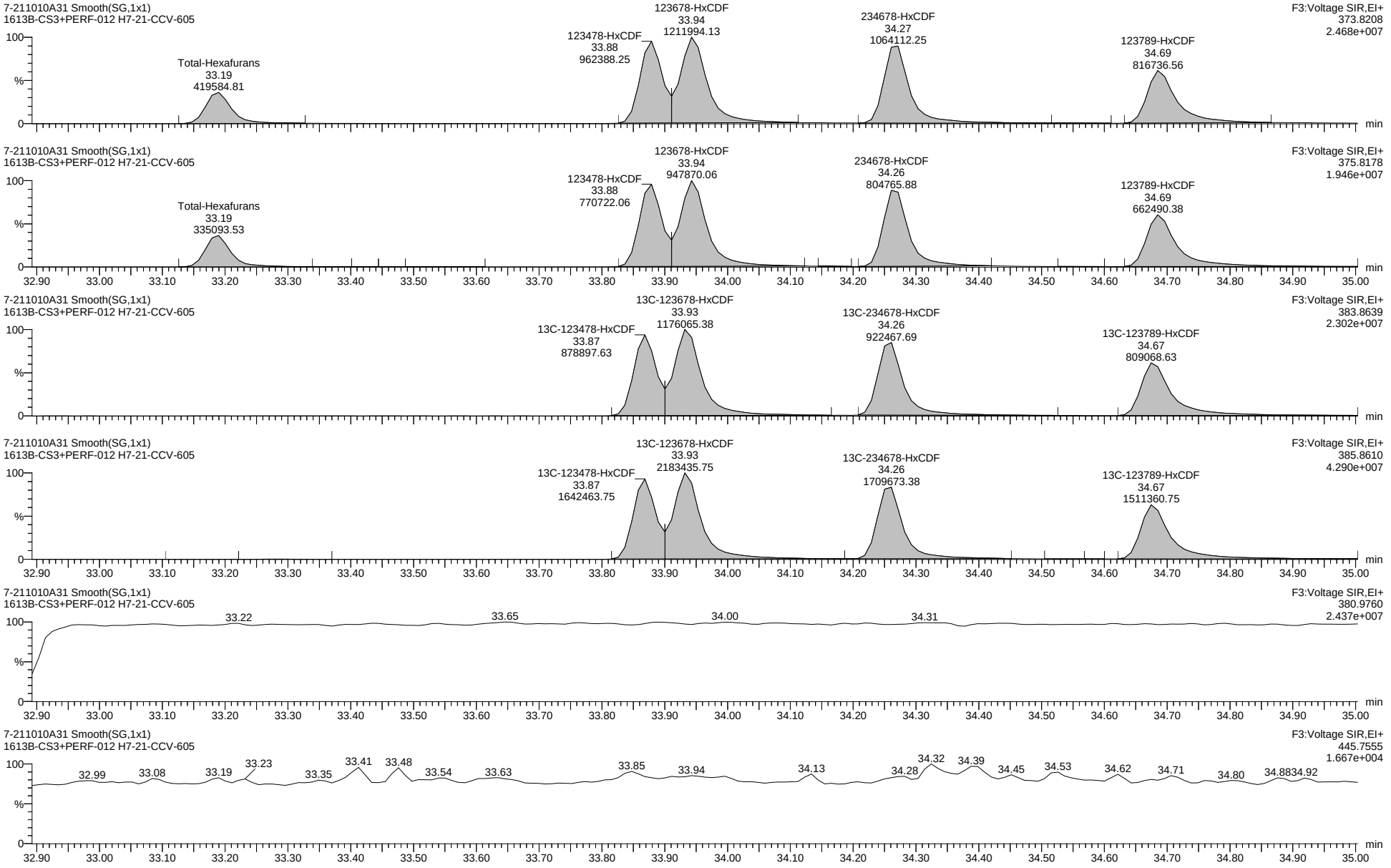

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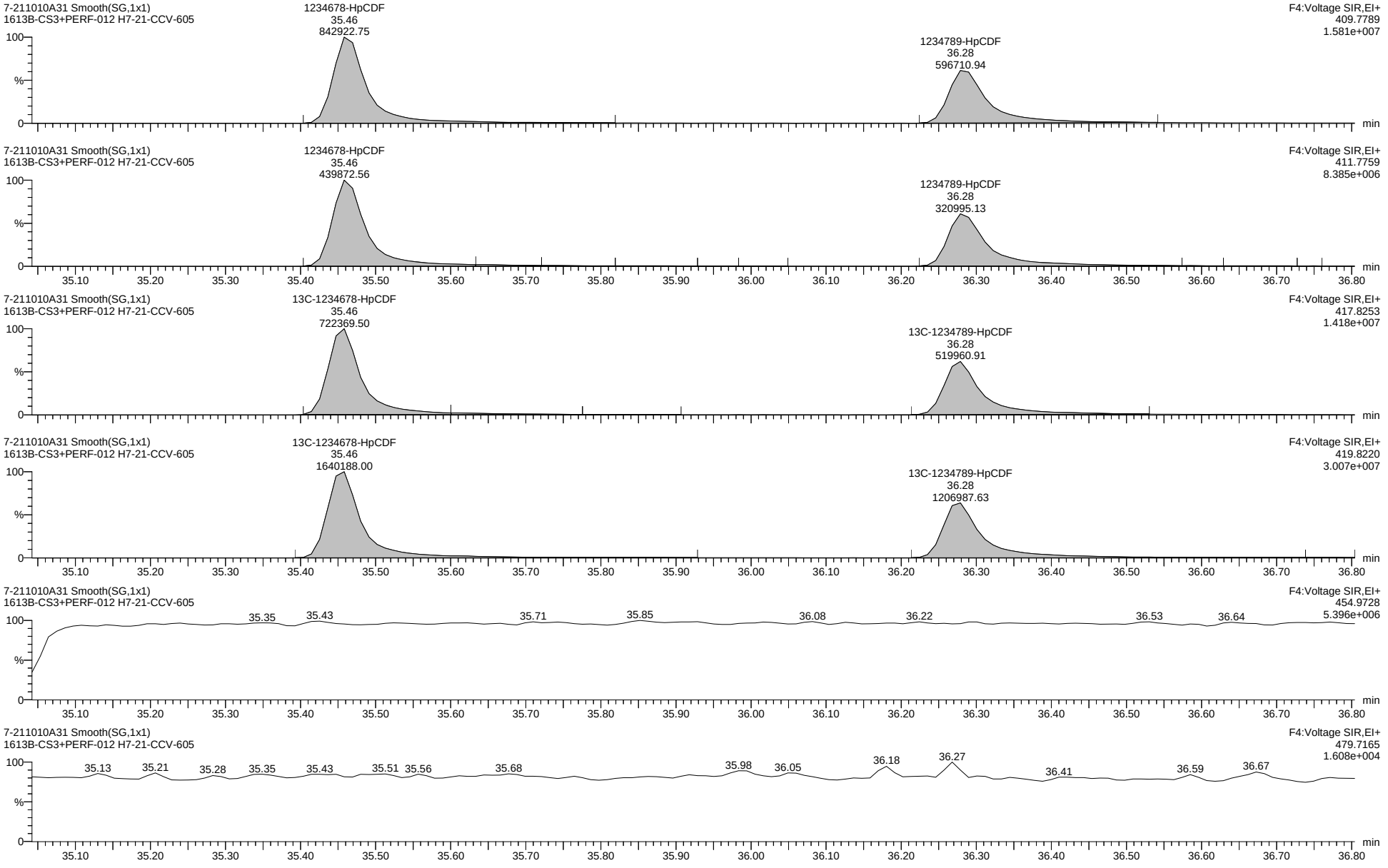

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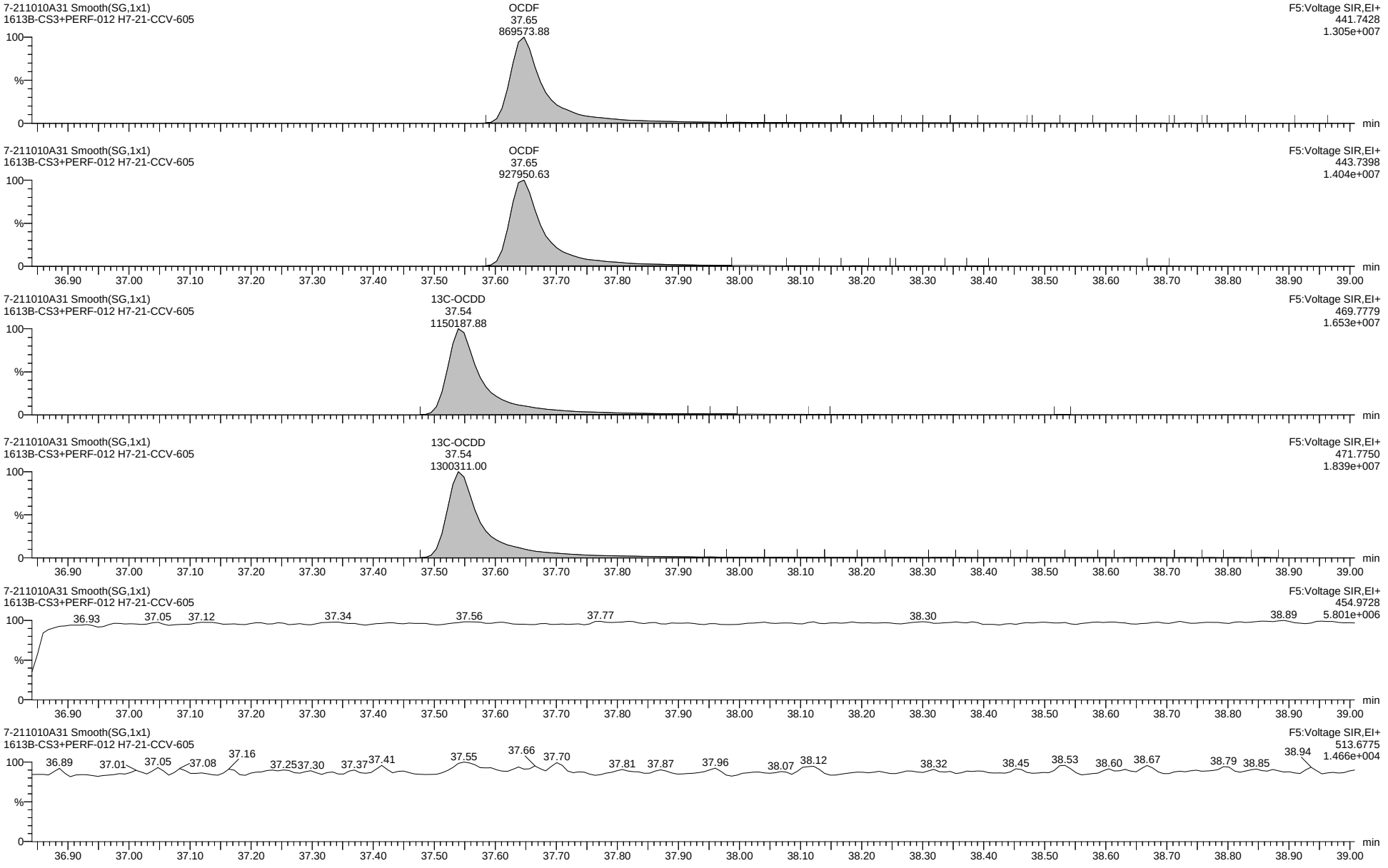

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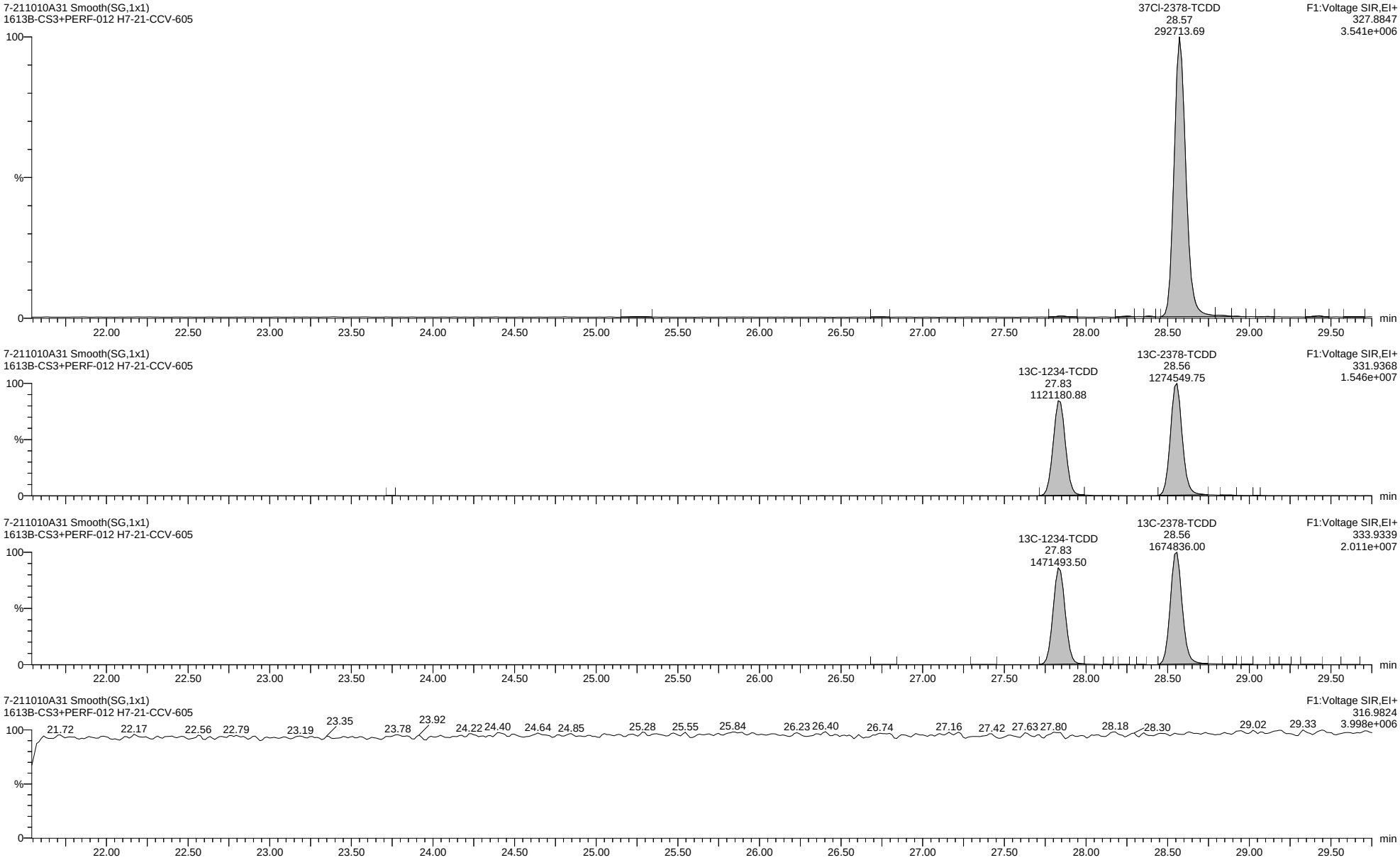

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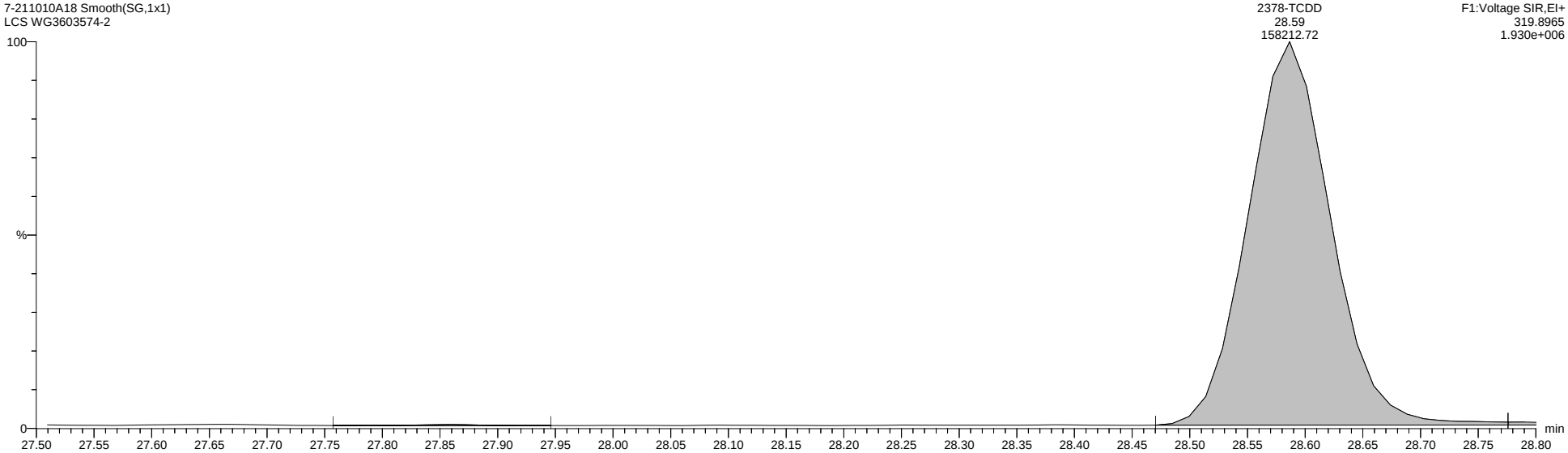

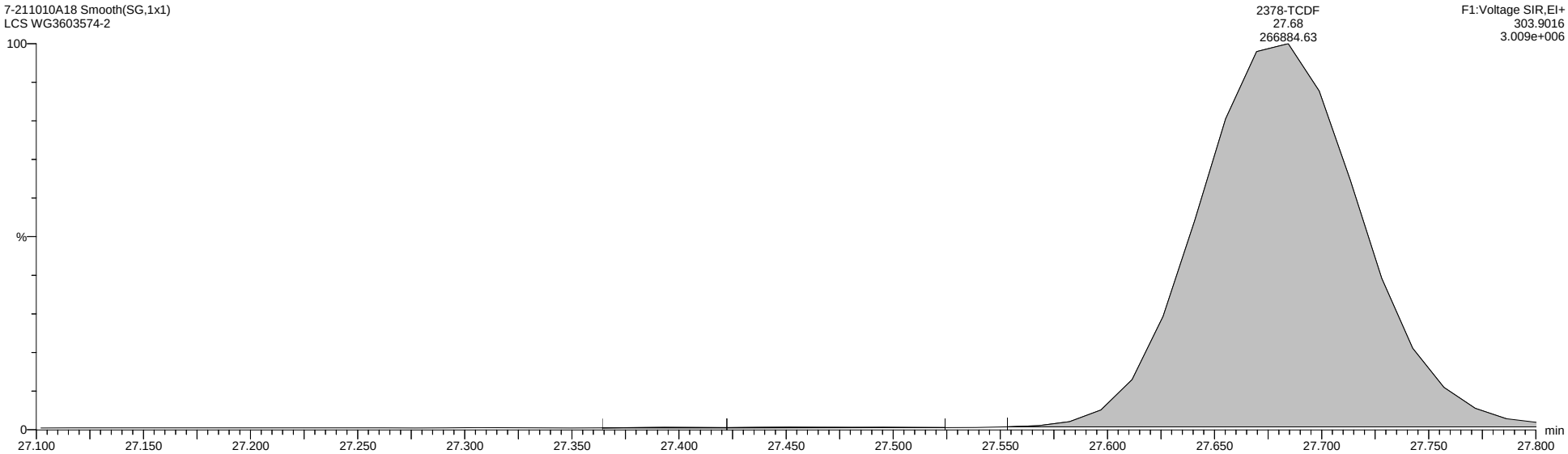

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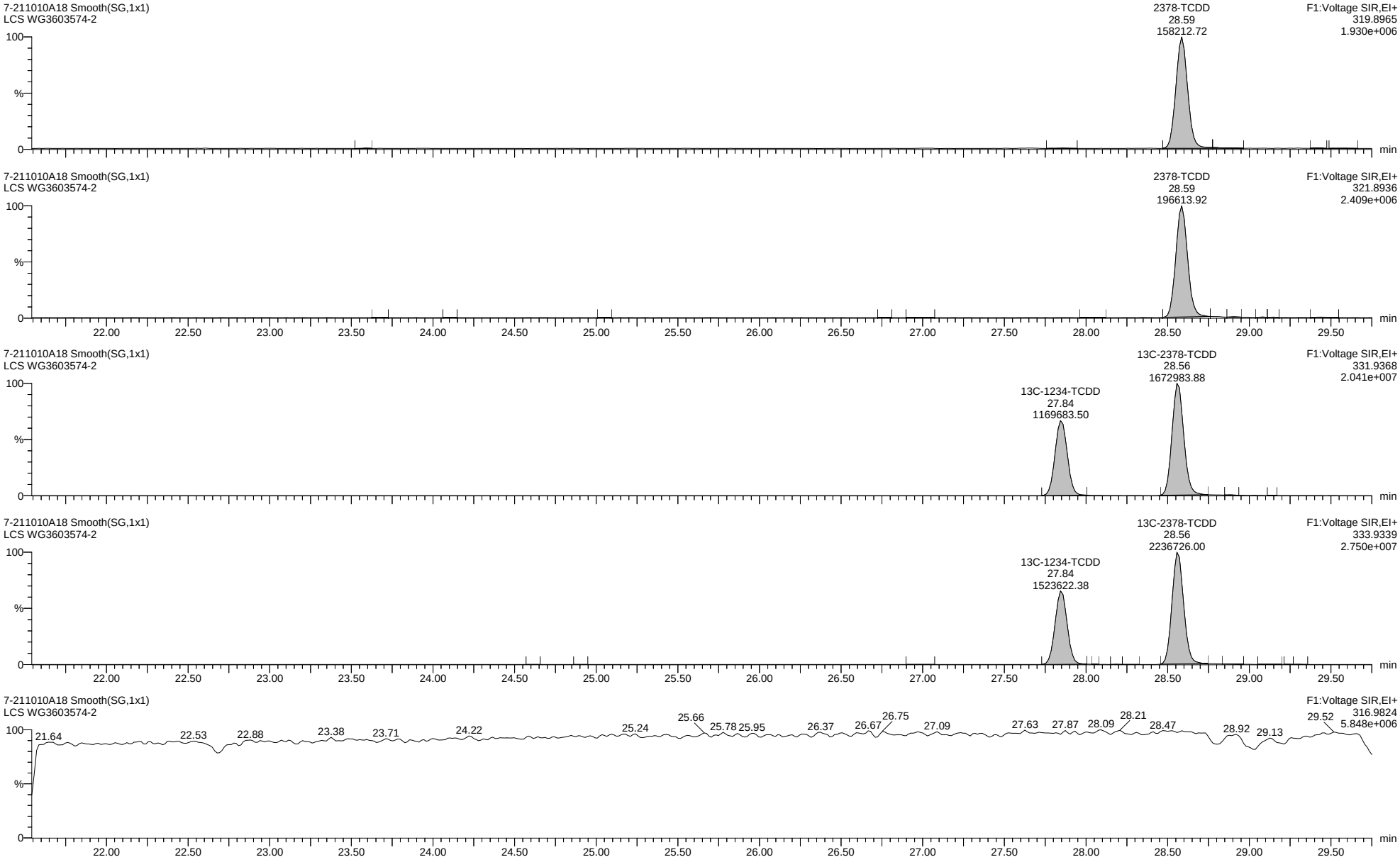

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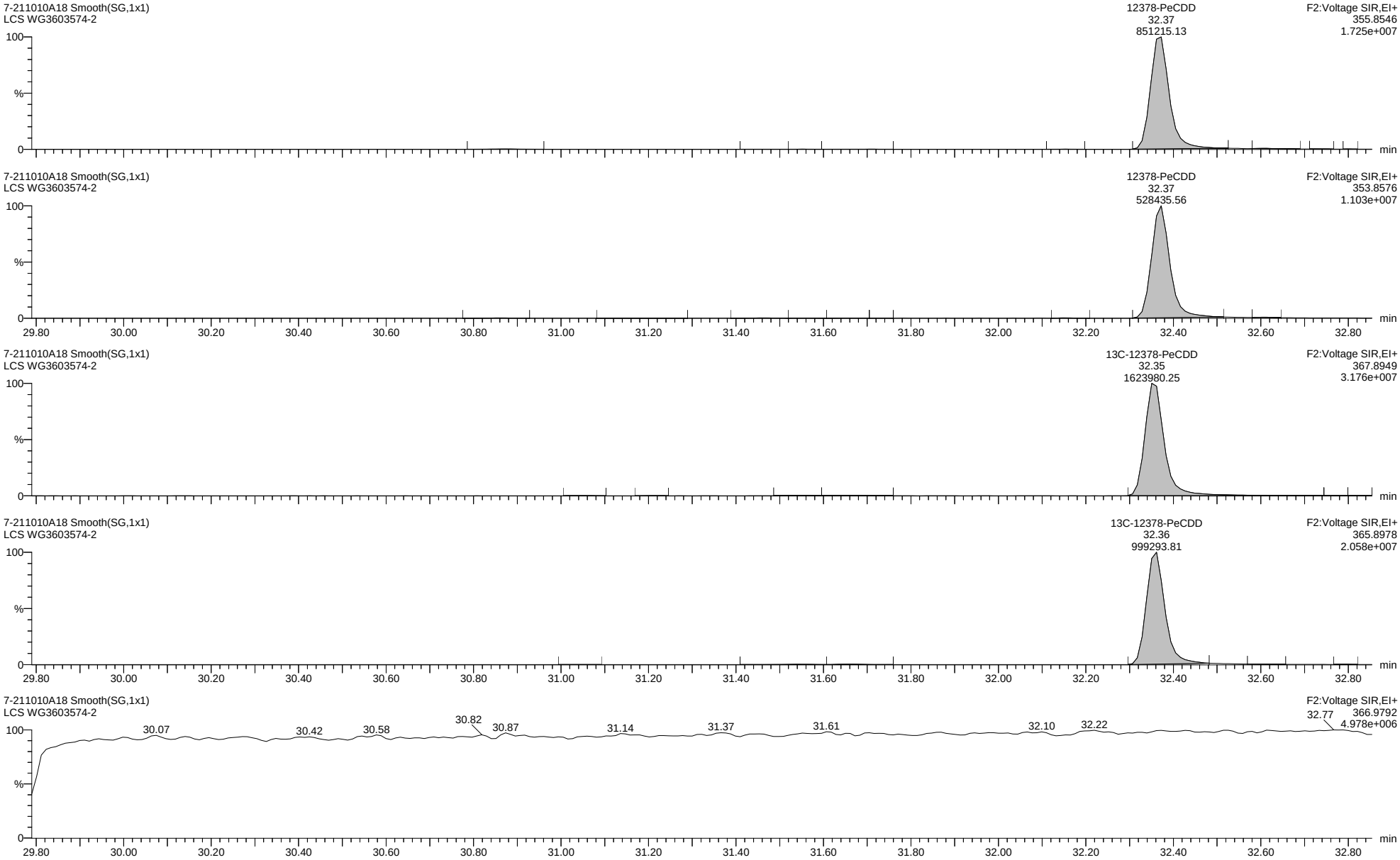

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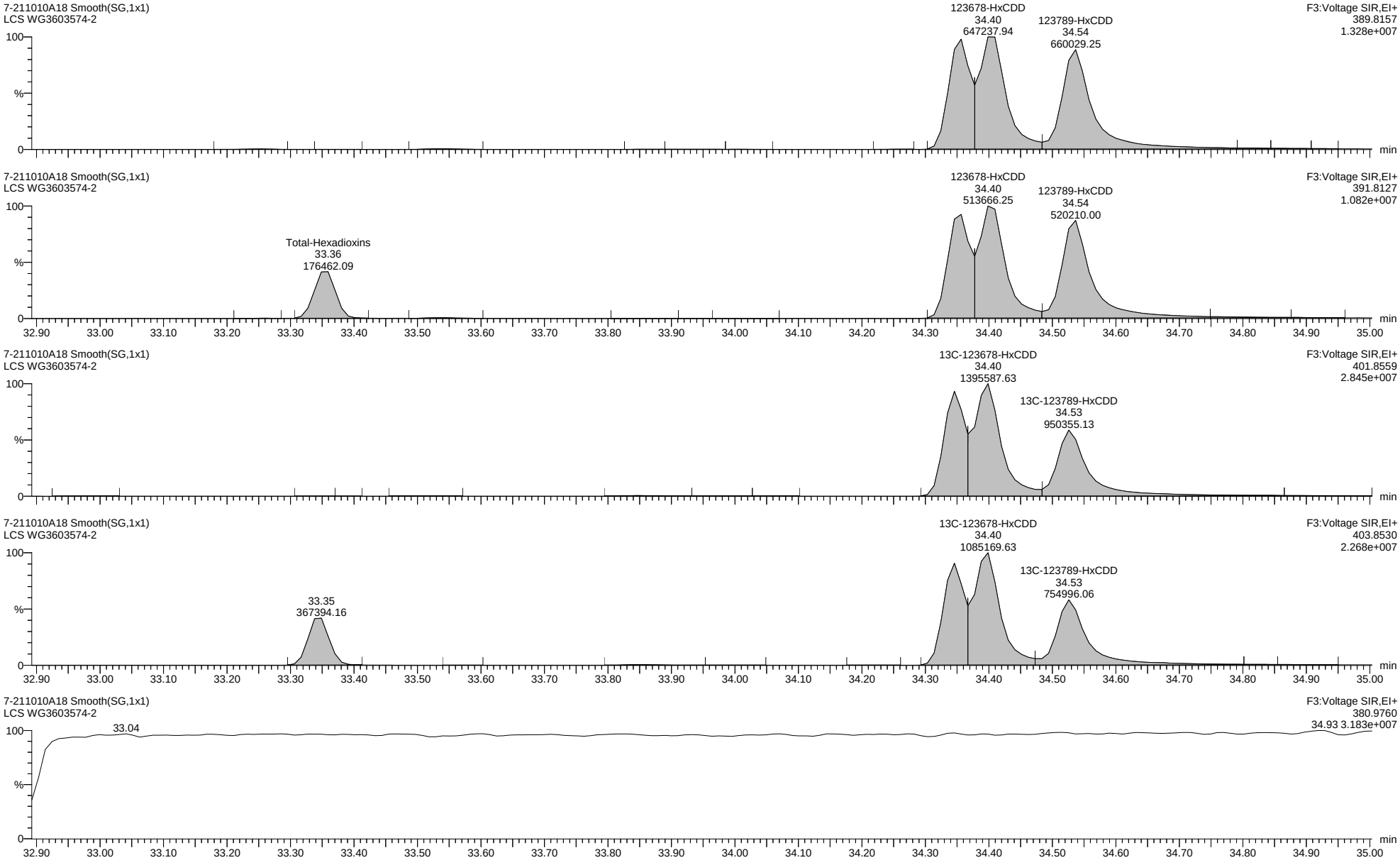

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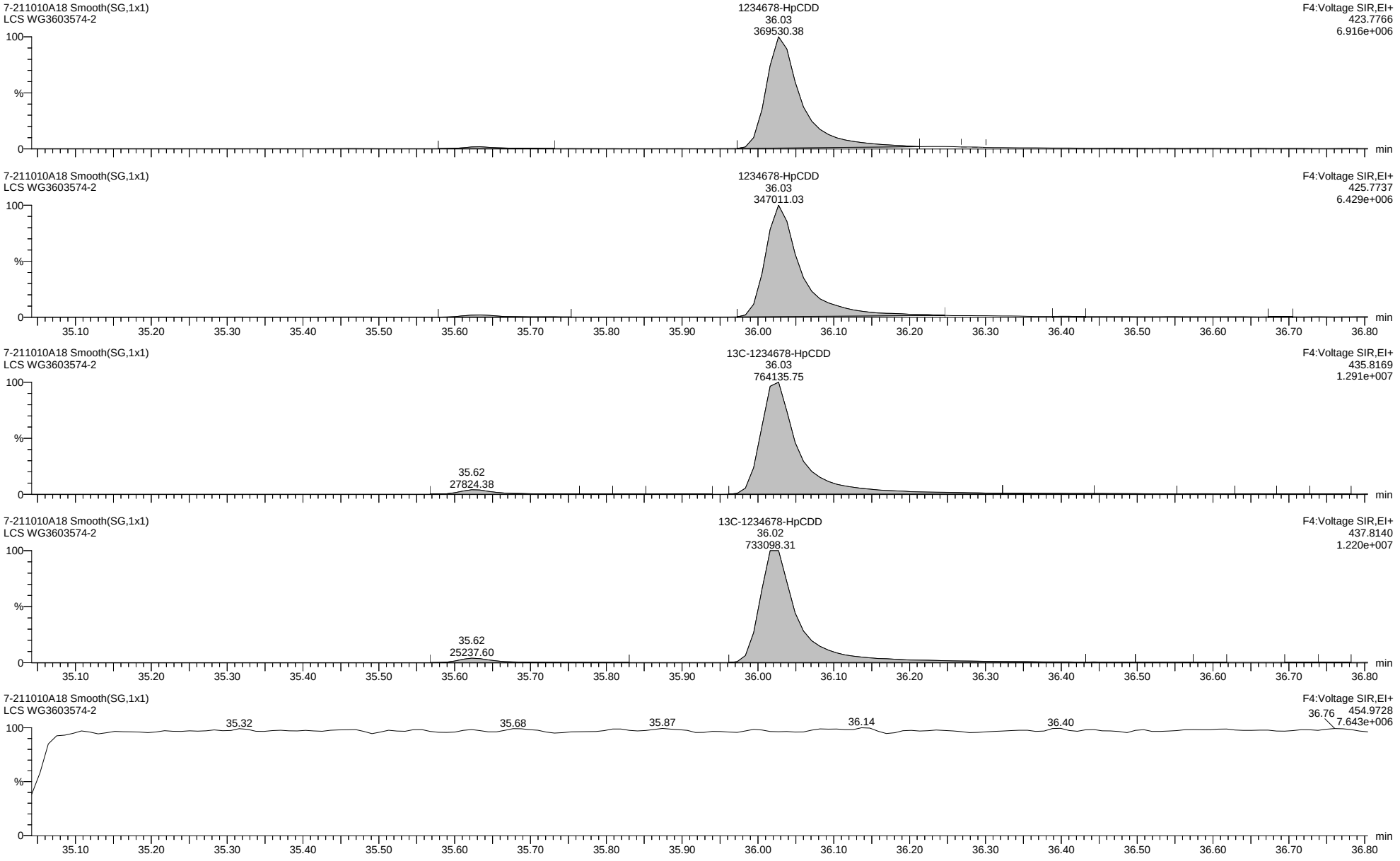

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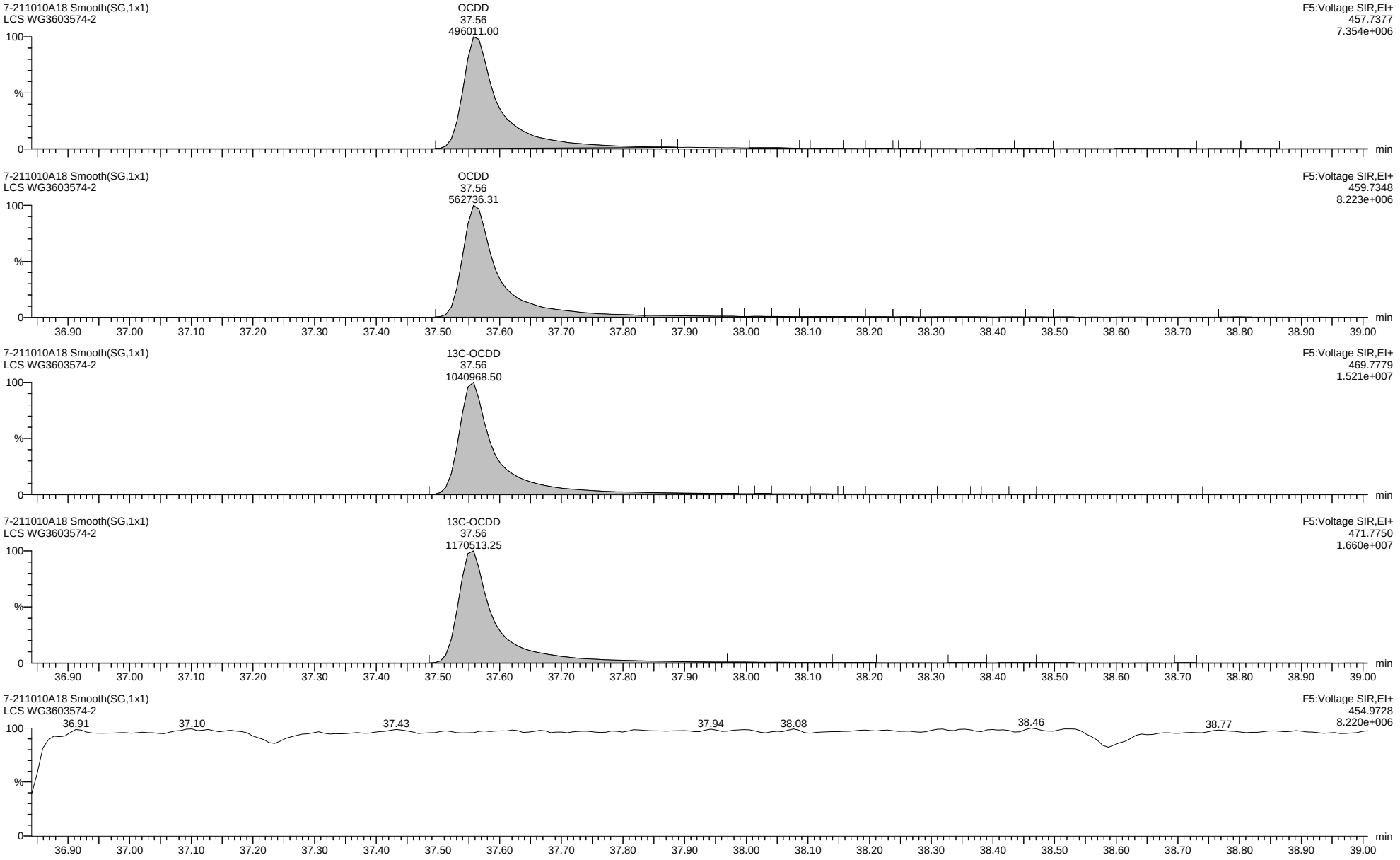

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Printed: Friday, October 15, 2021 11:39:37 Eastern Daylight Time

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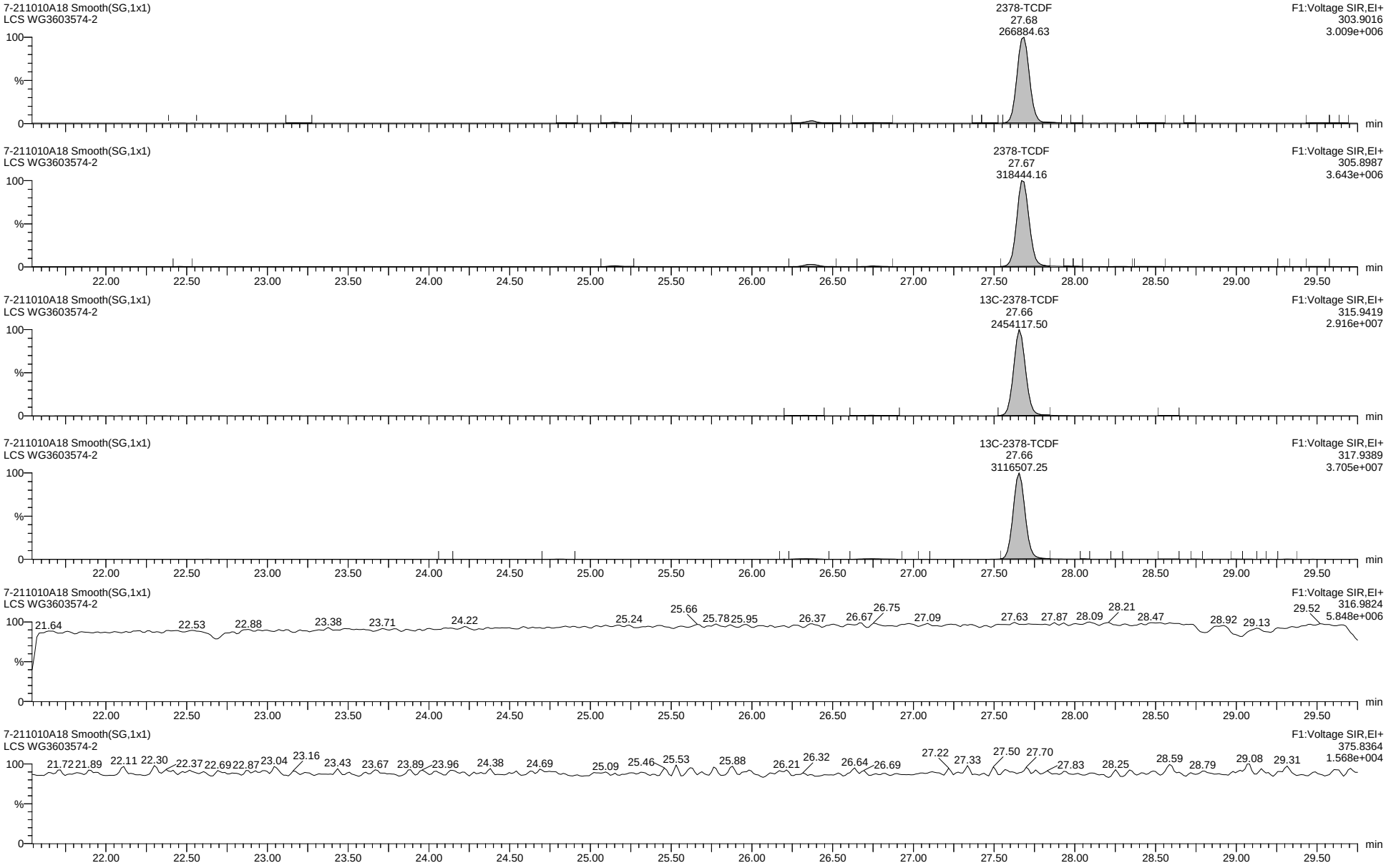

Quantify Sample Template Report **MassLynx MassLynx V4.1 SCN 901**

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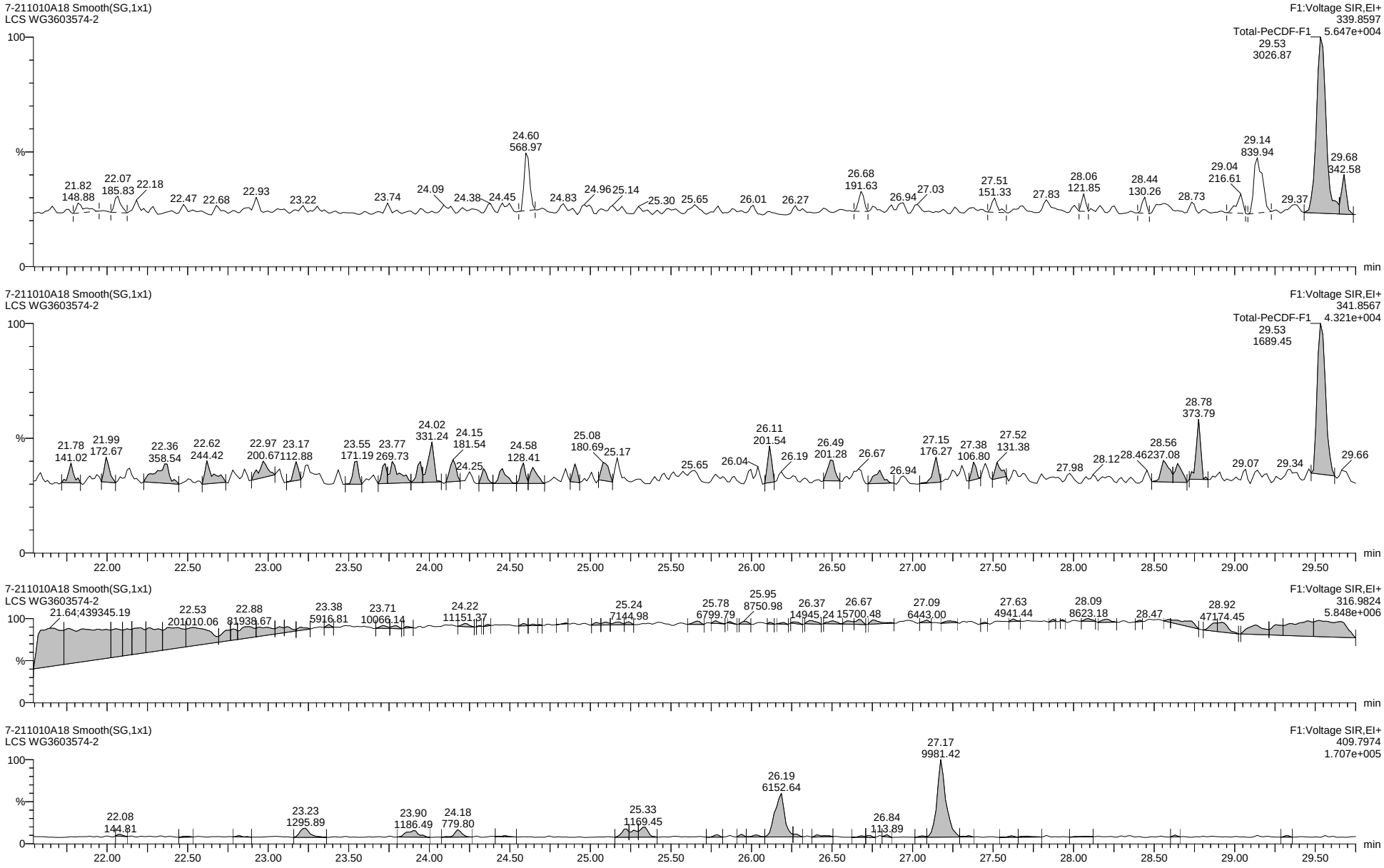

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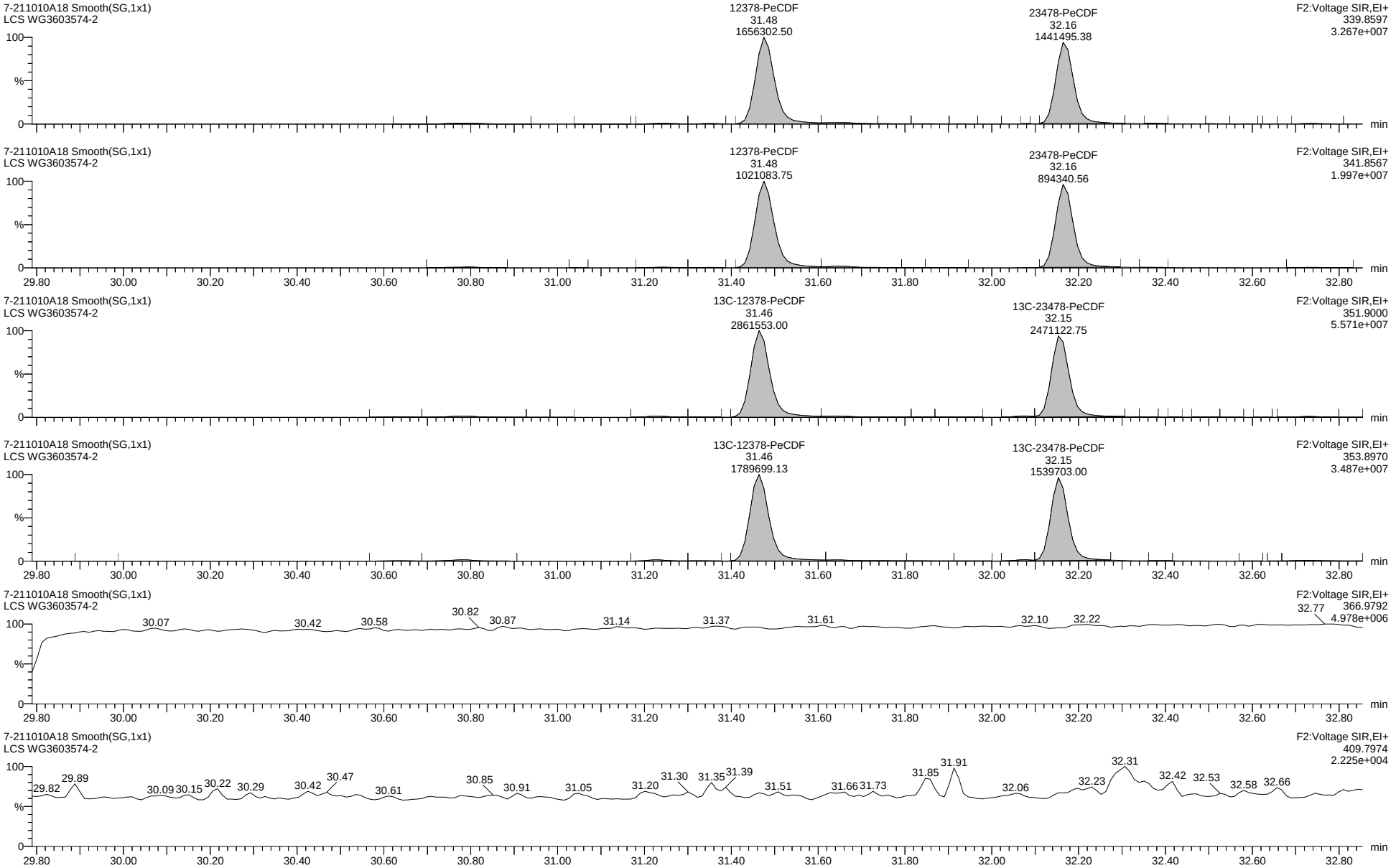

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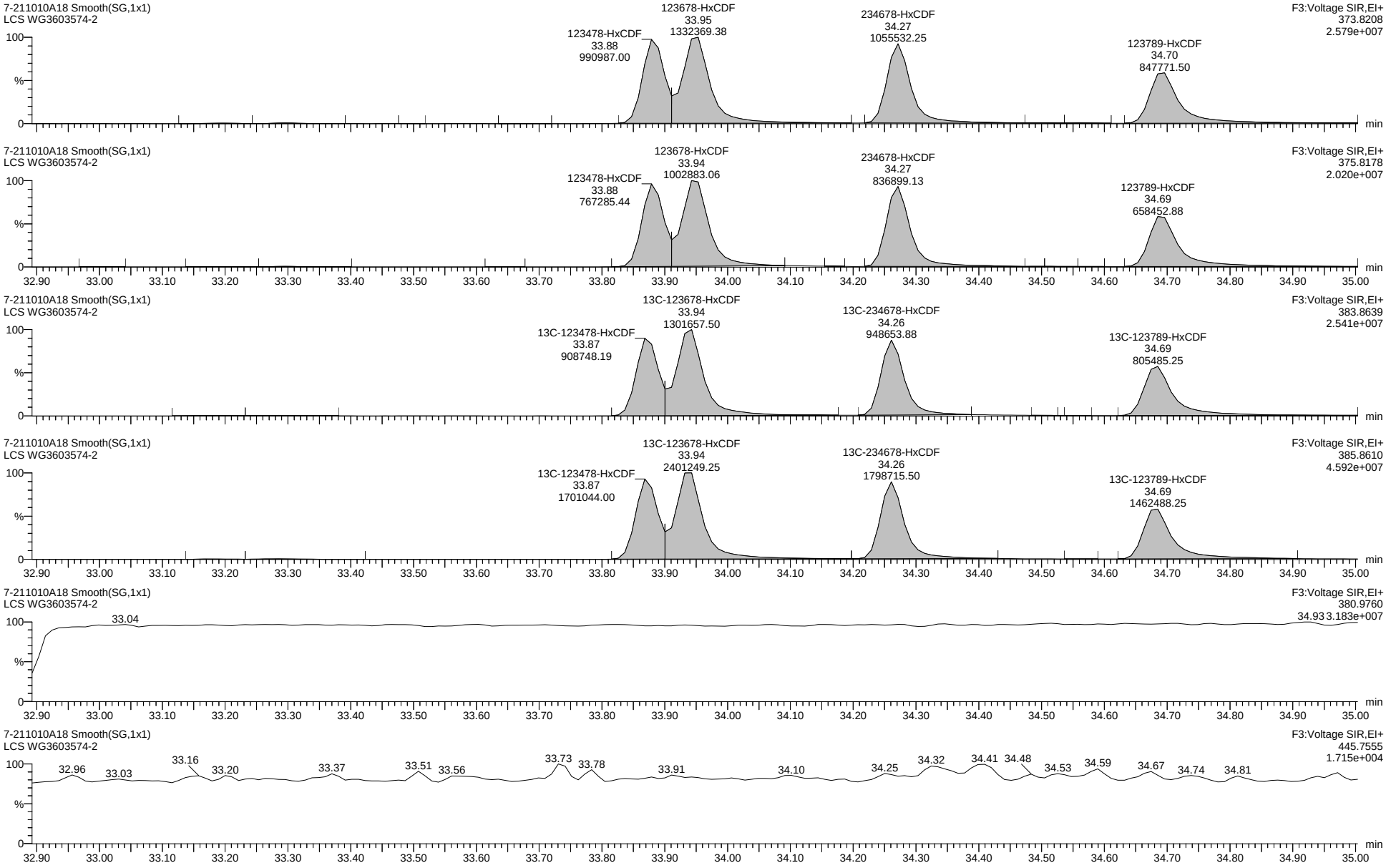

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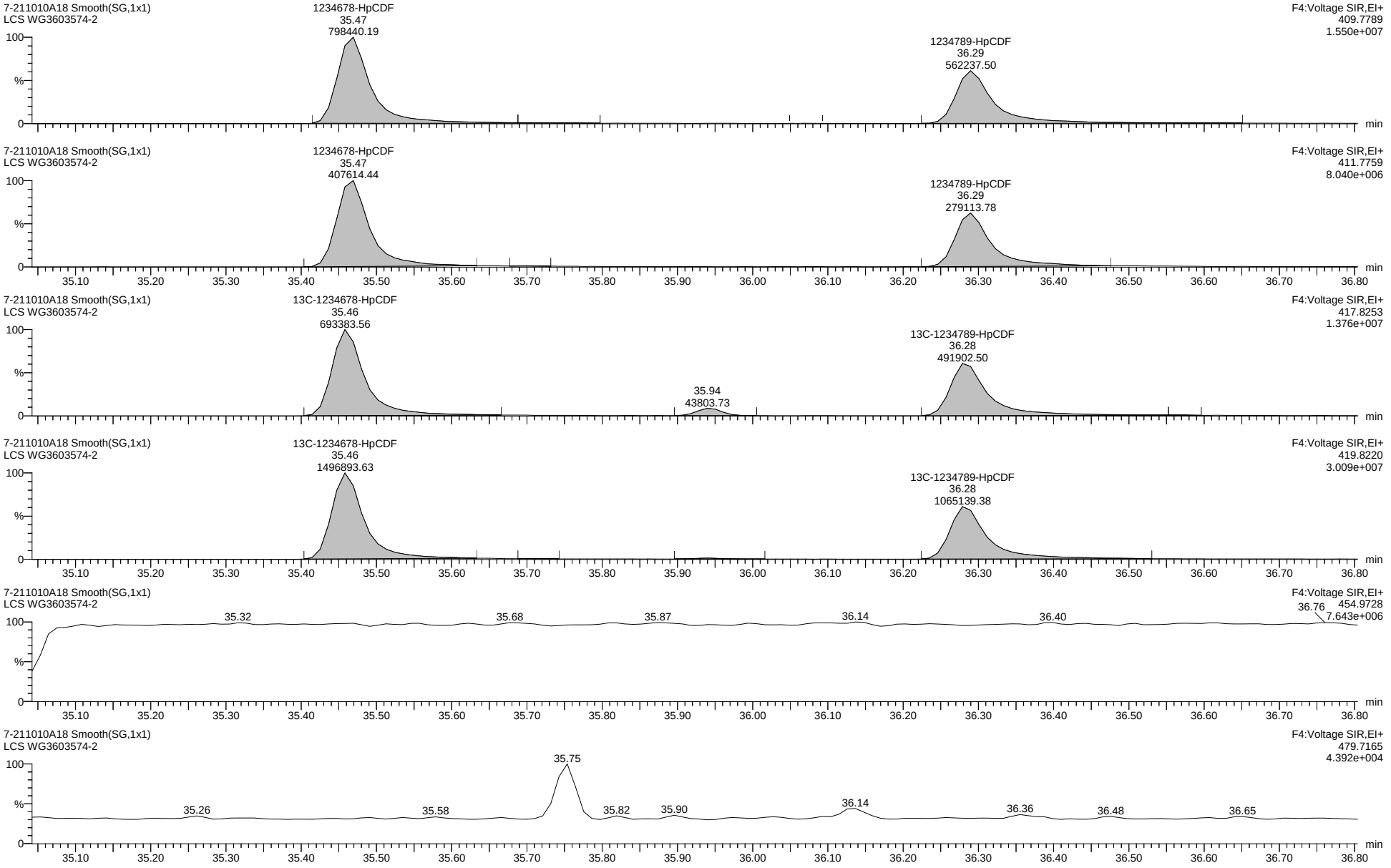

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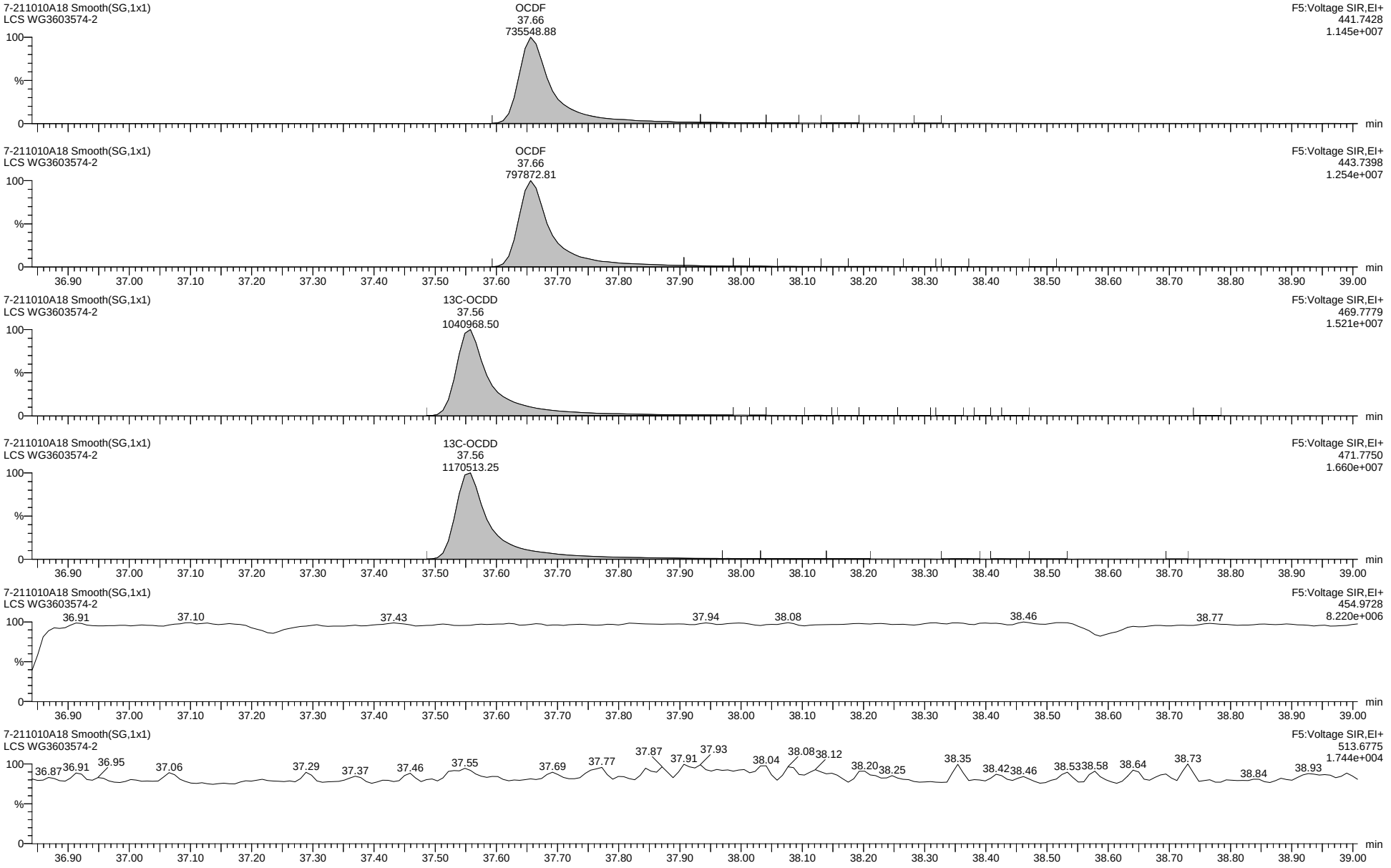

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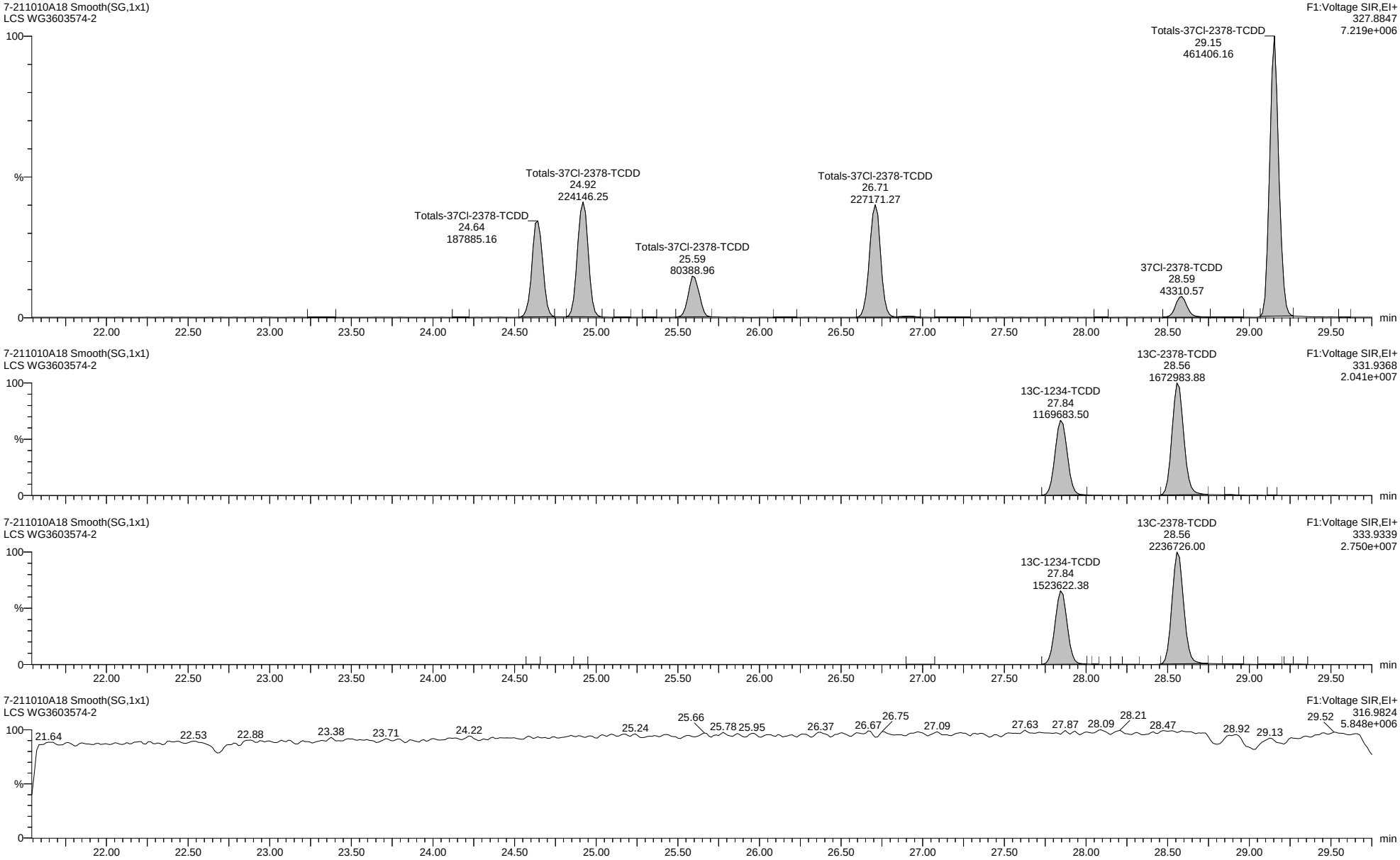

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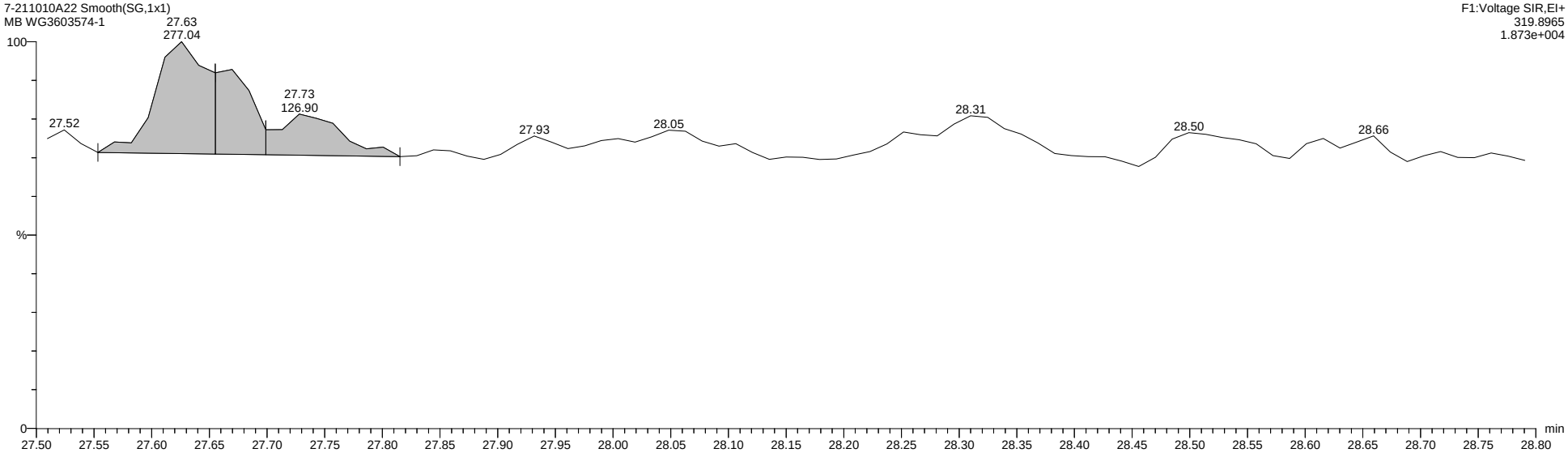

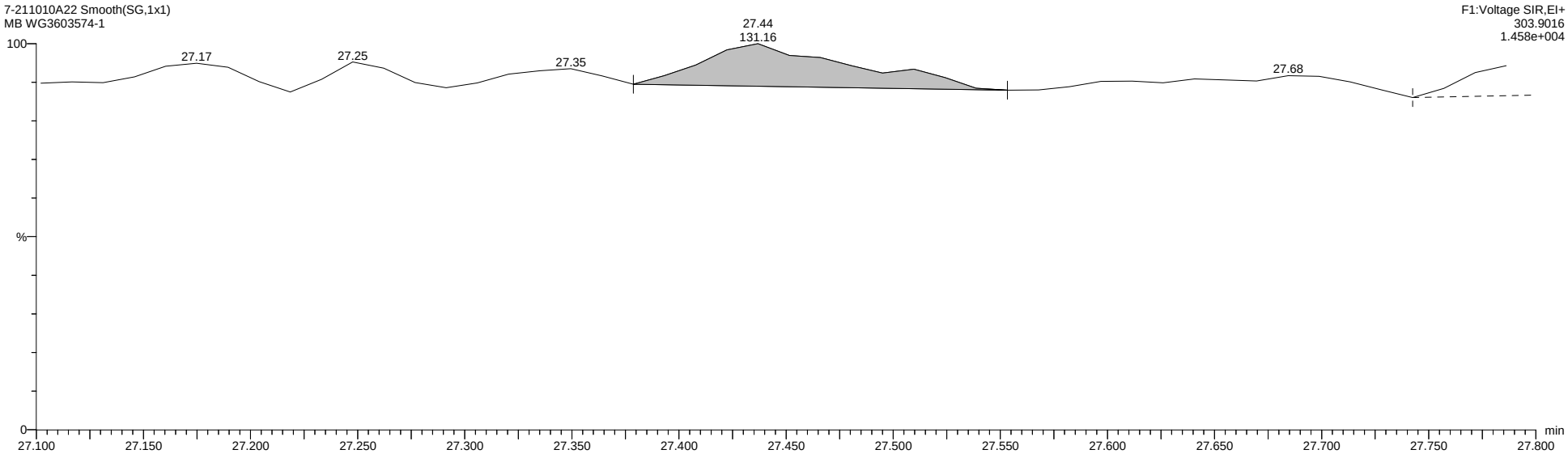

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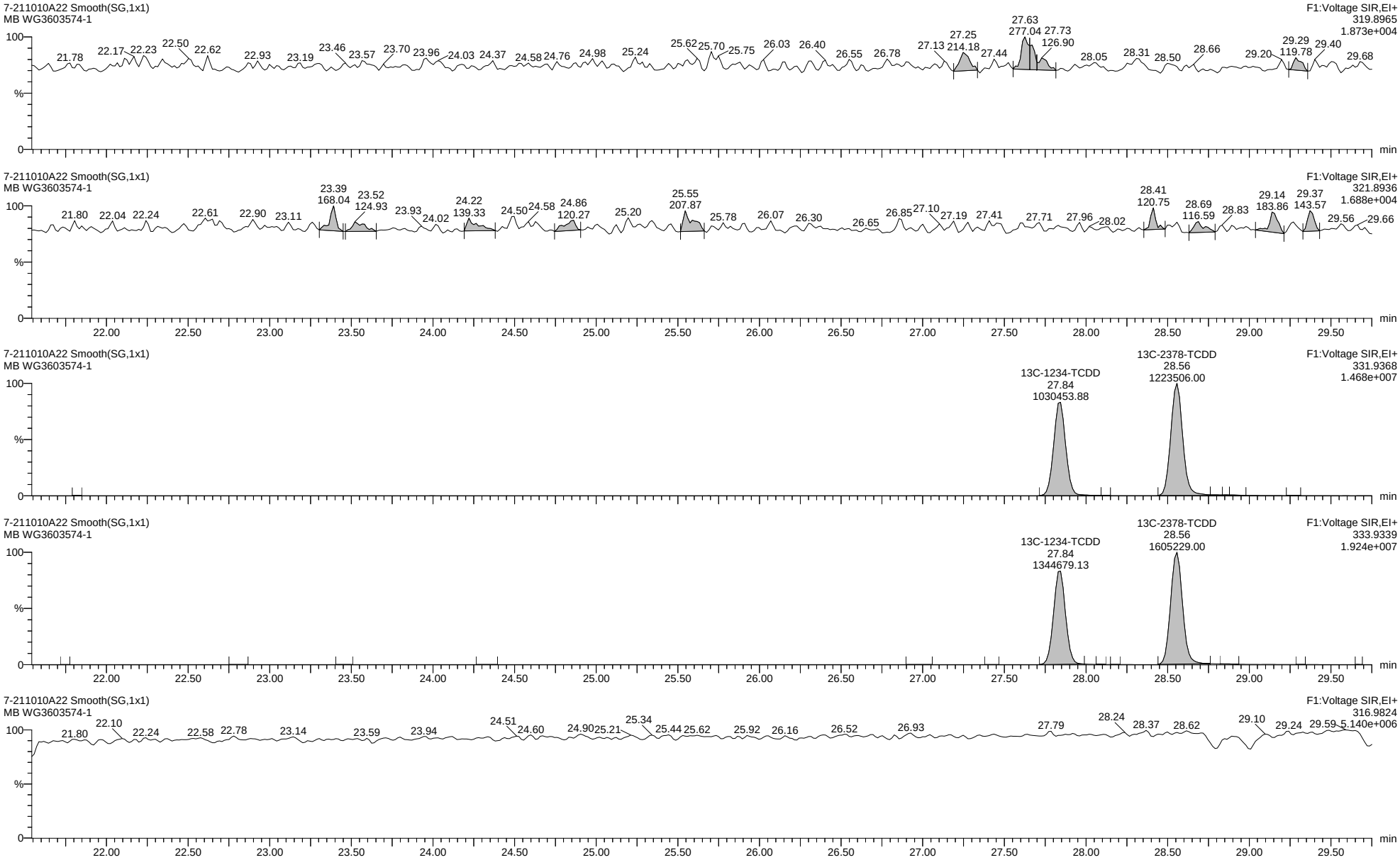

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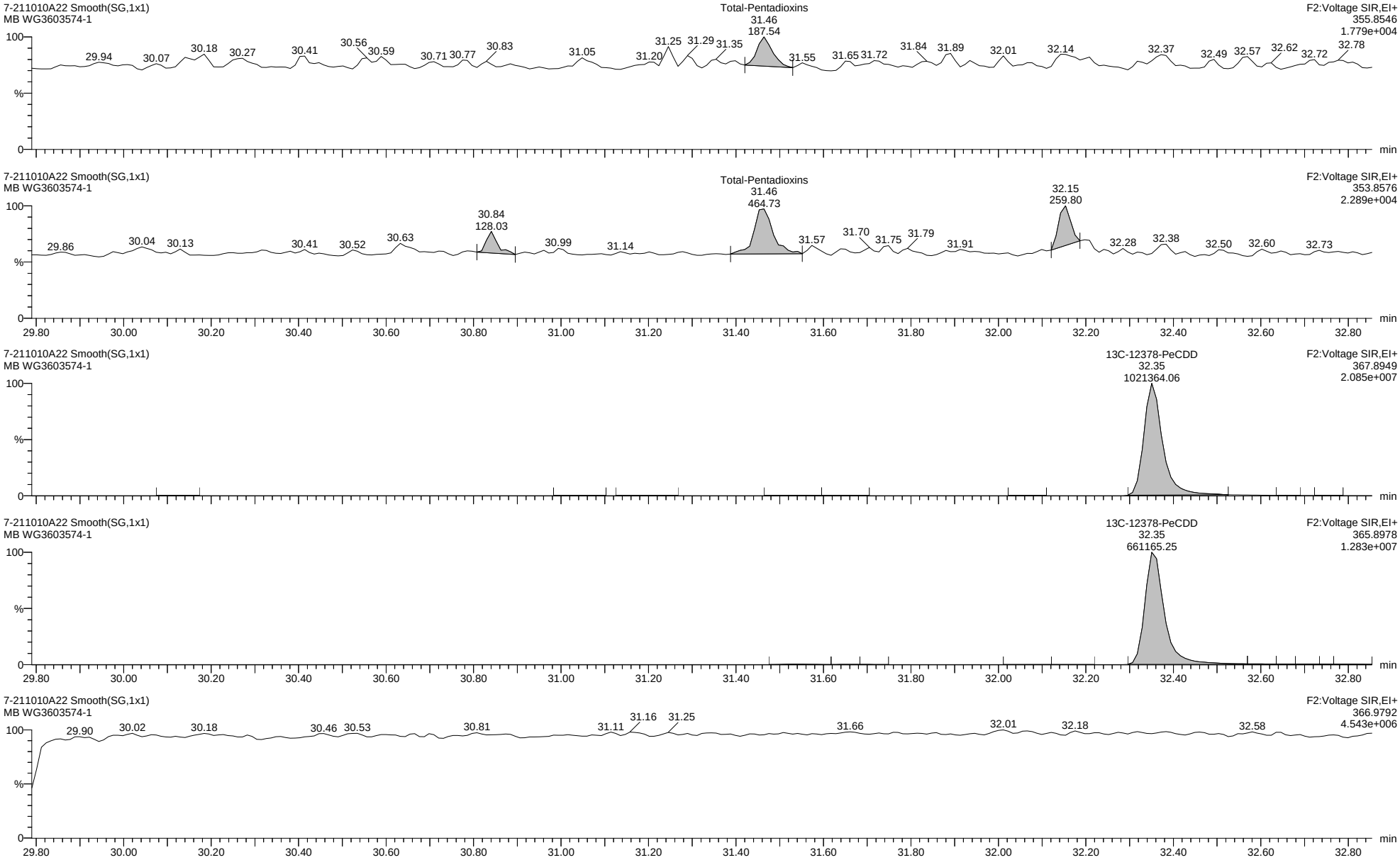

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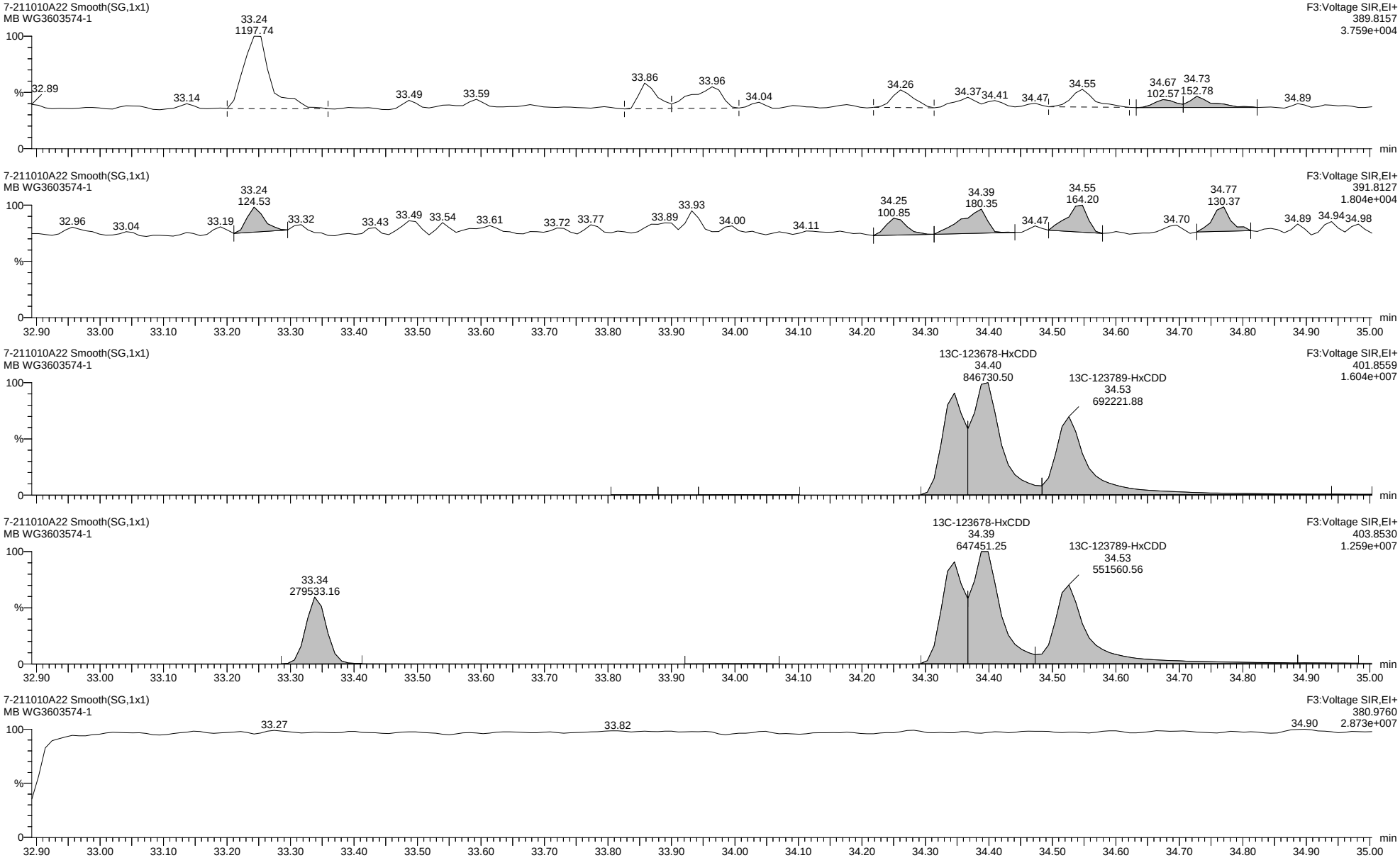

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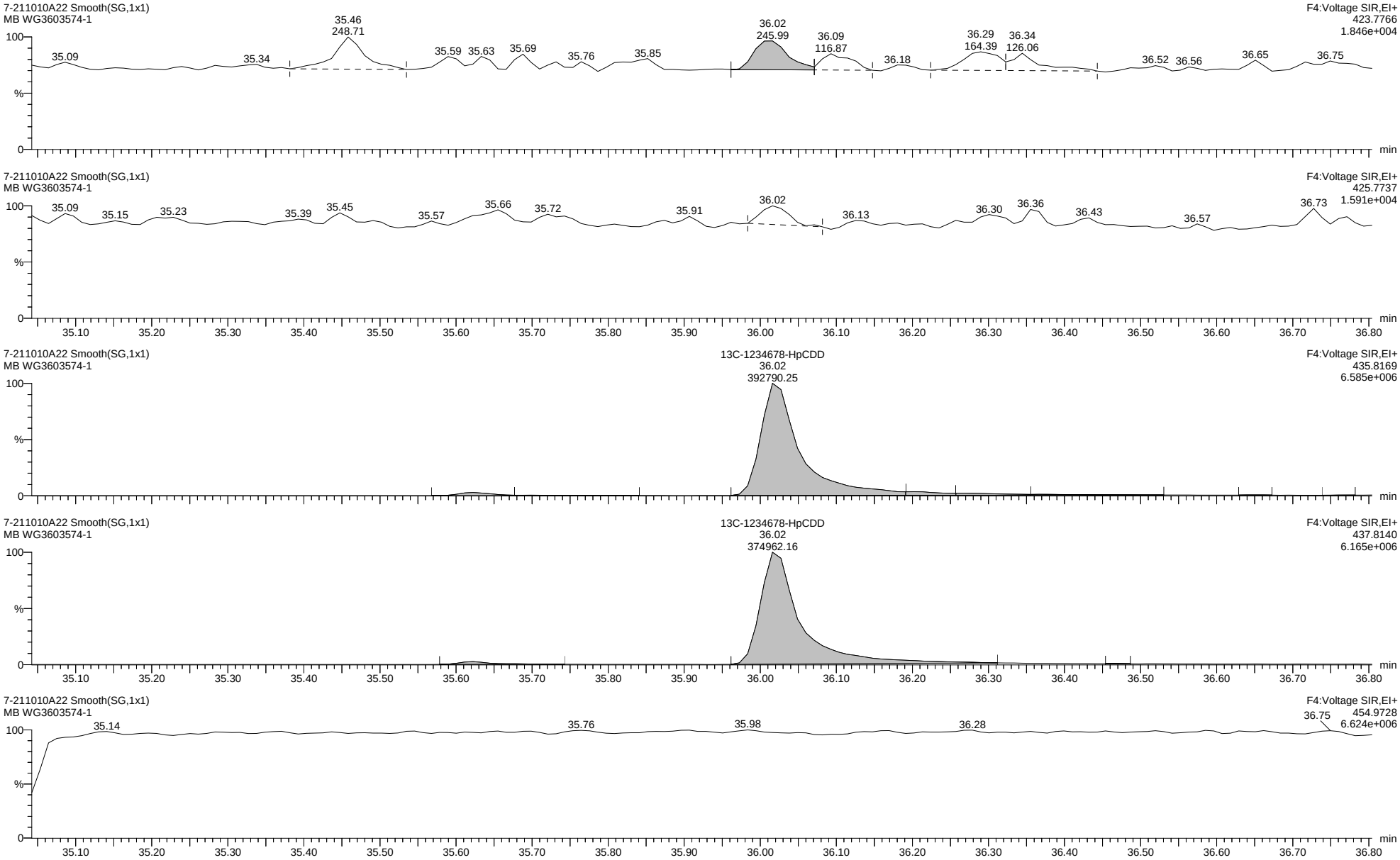

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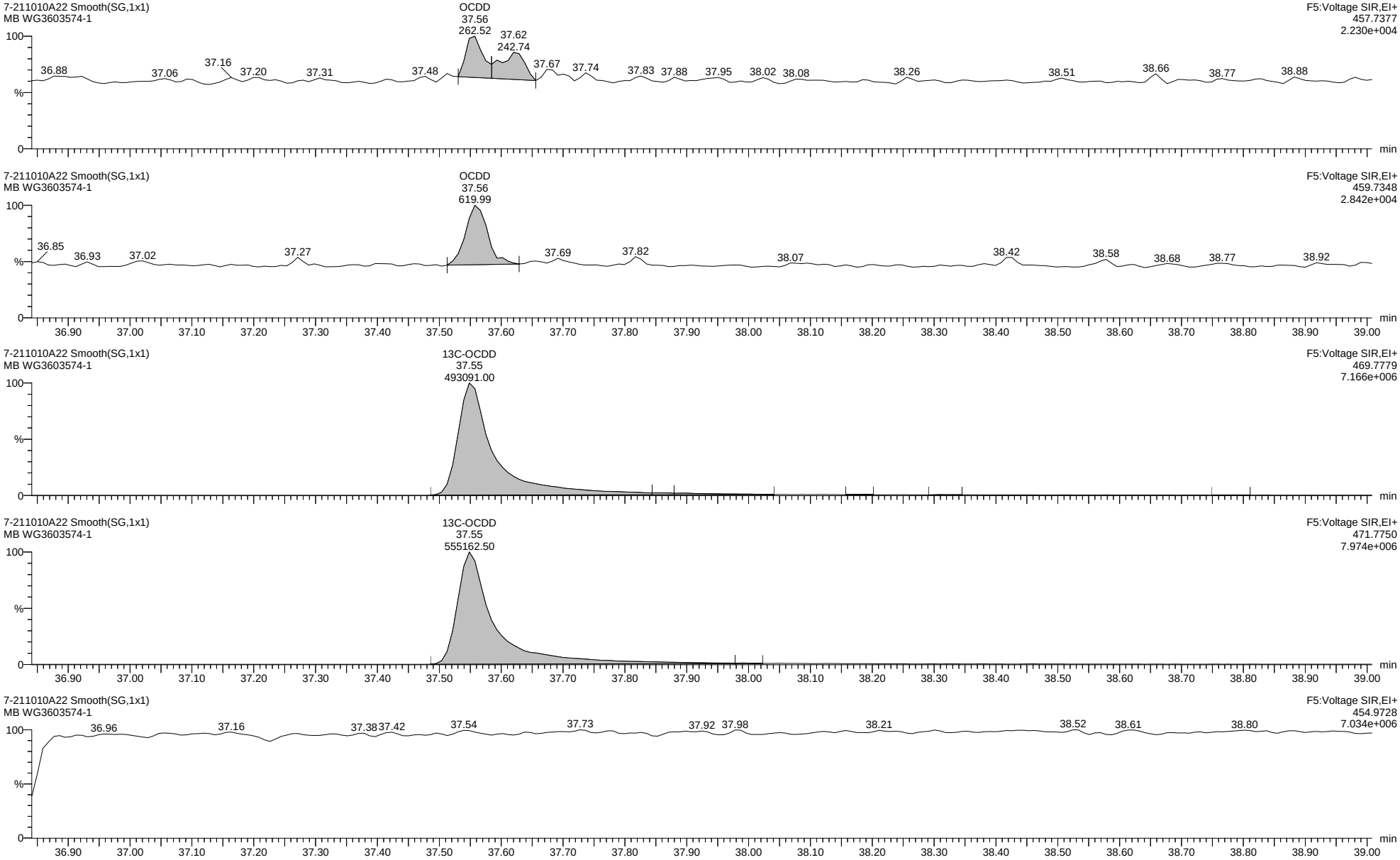

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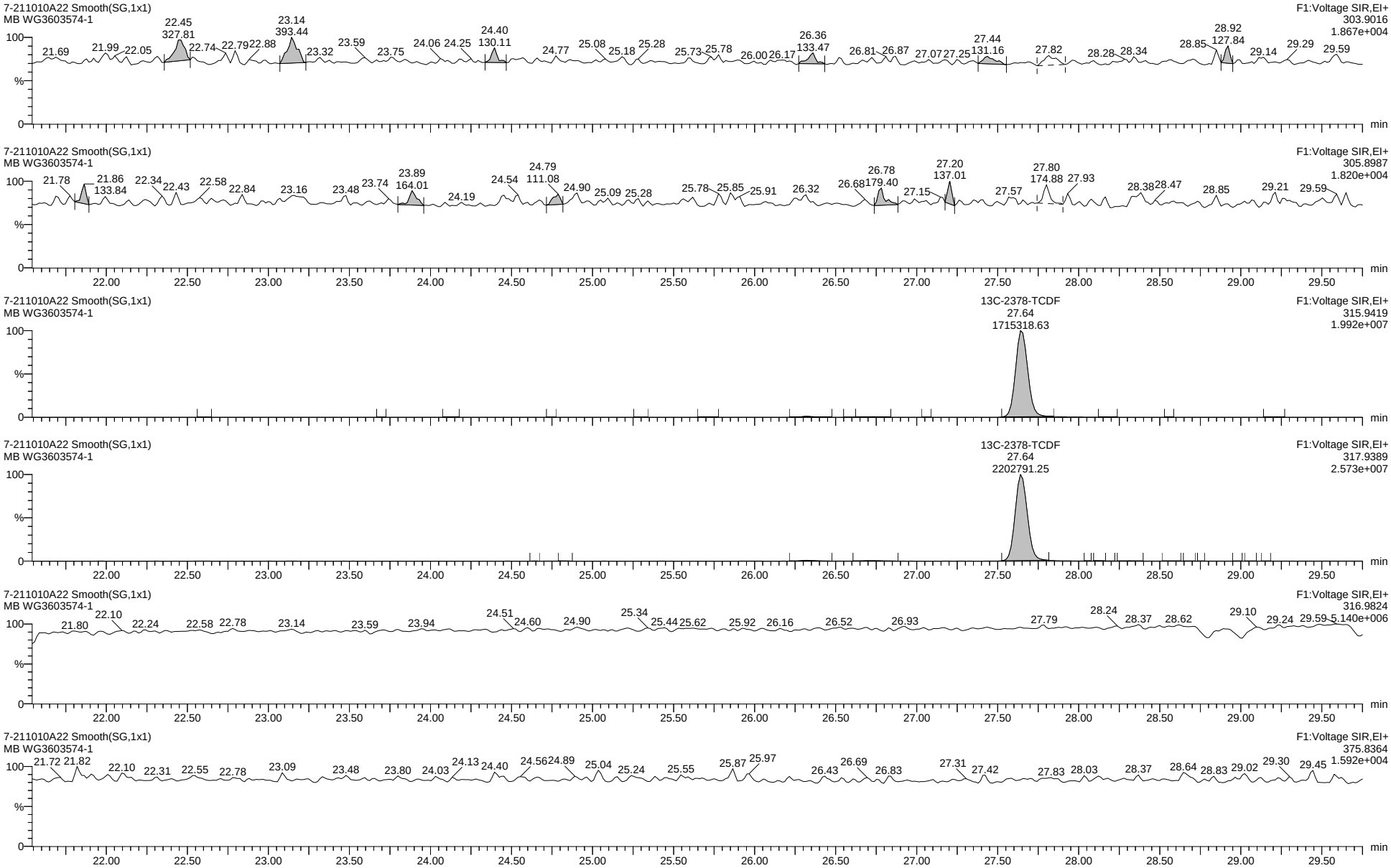

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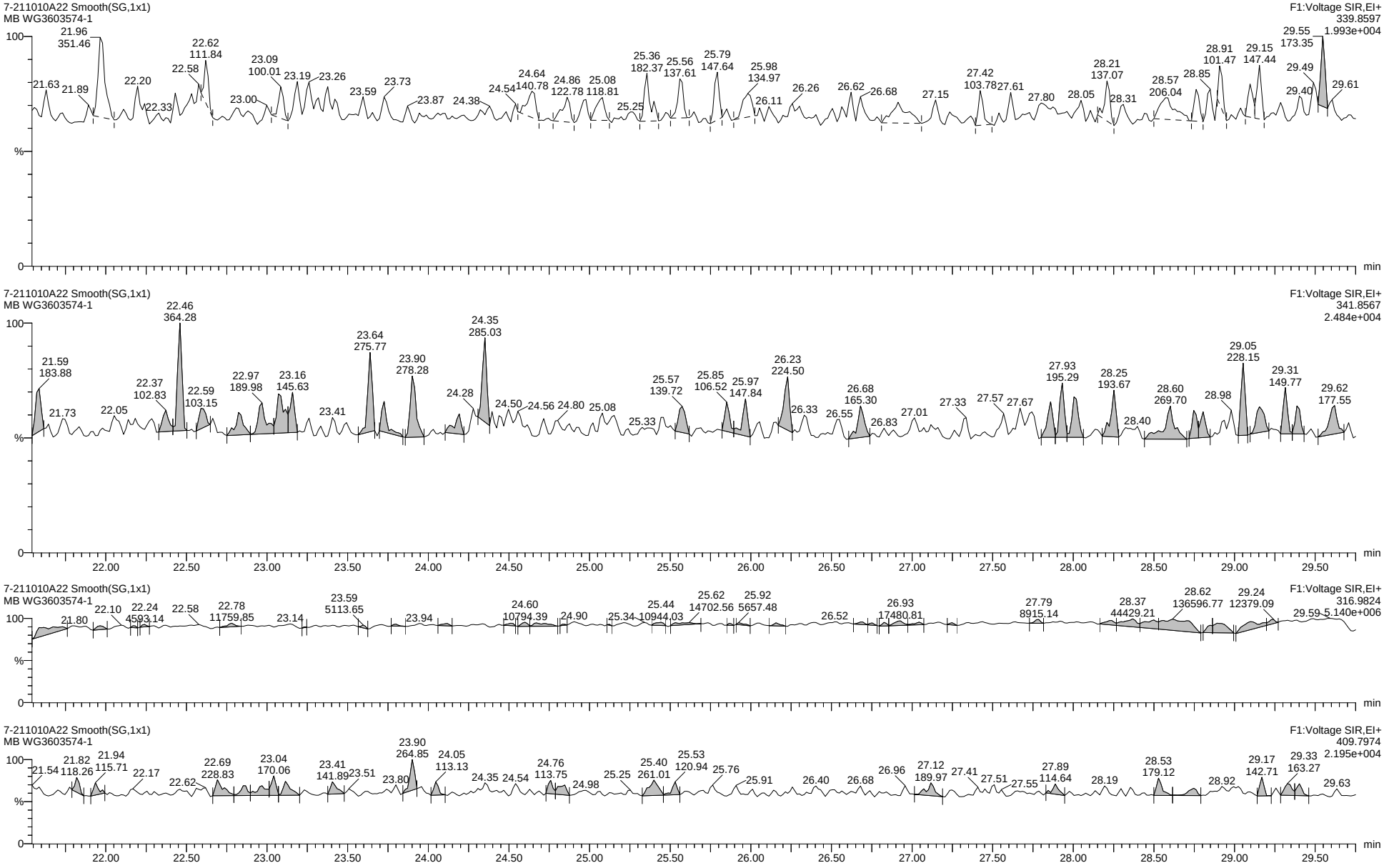

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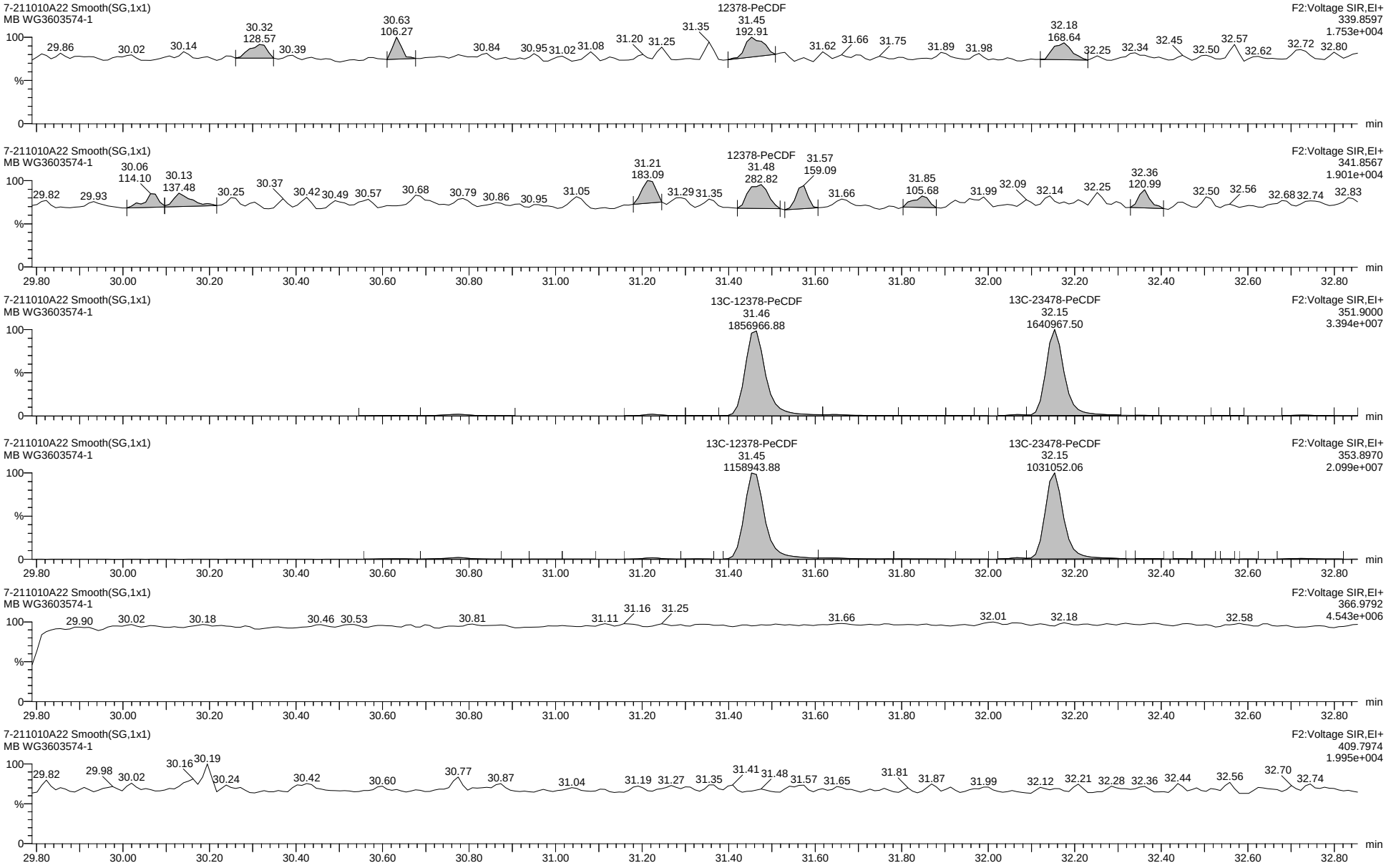

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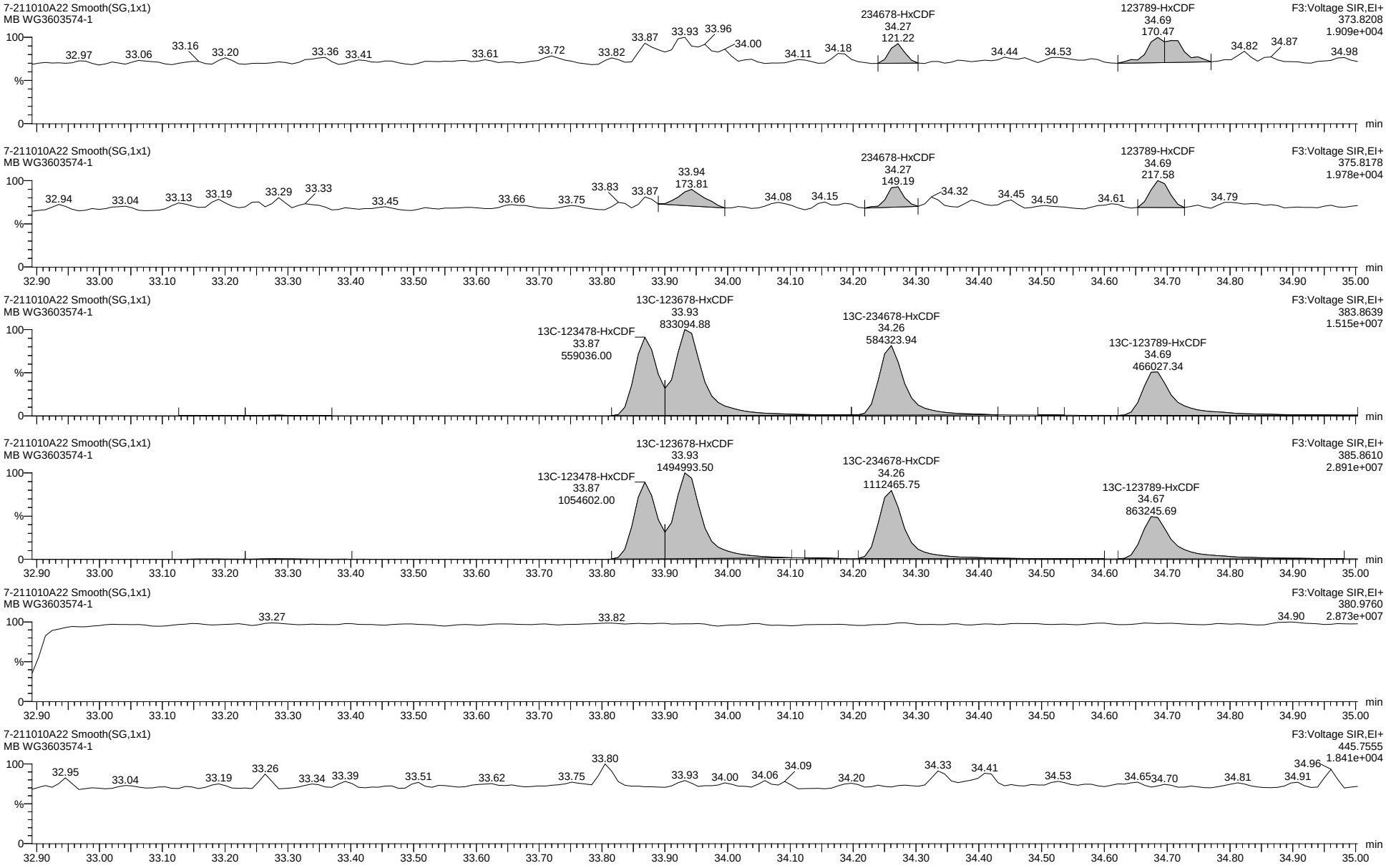

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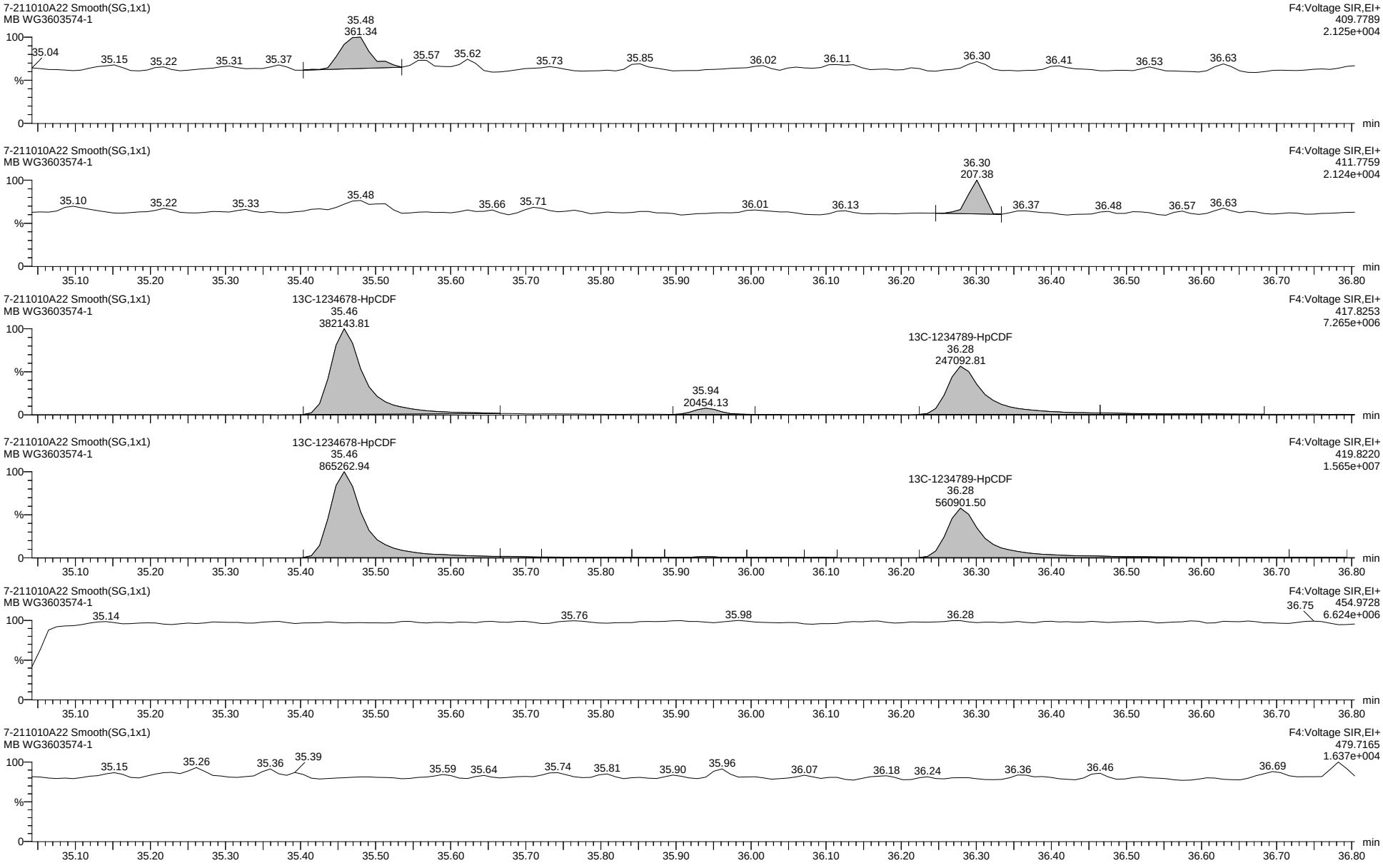

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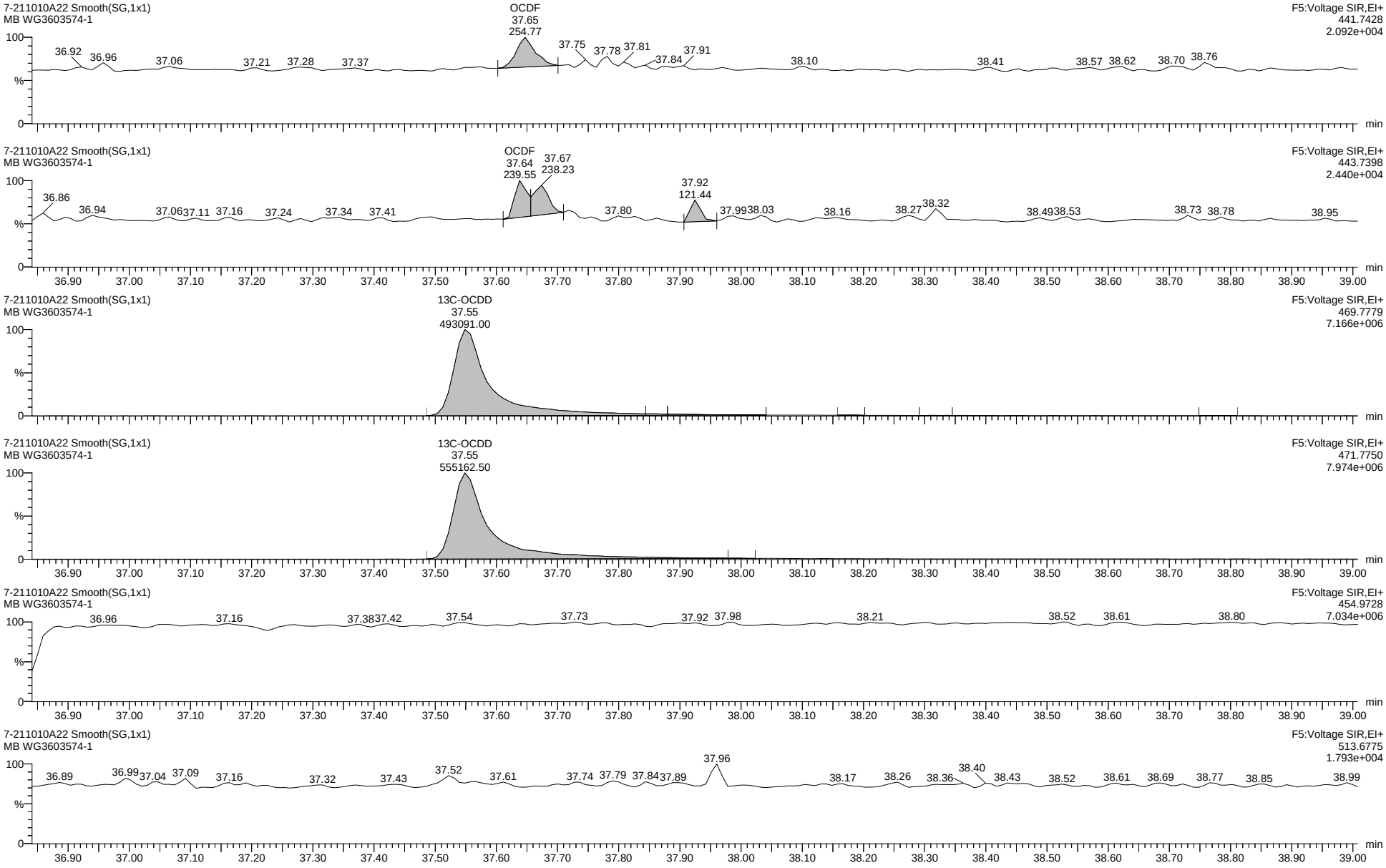

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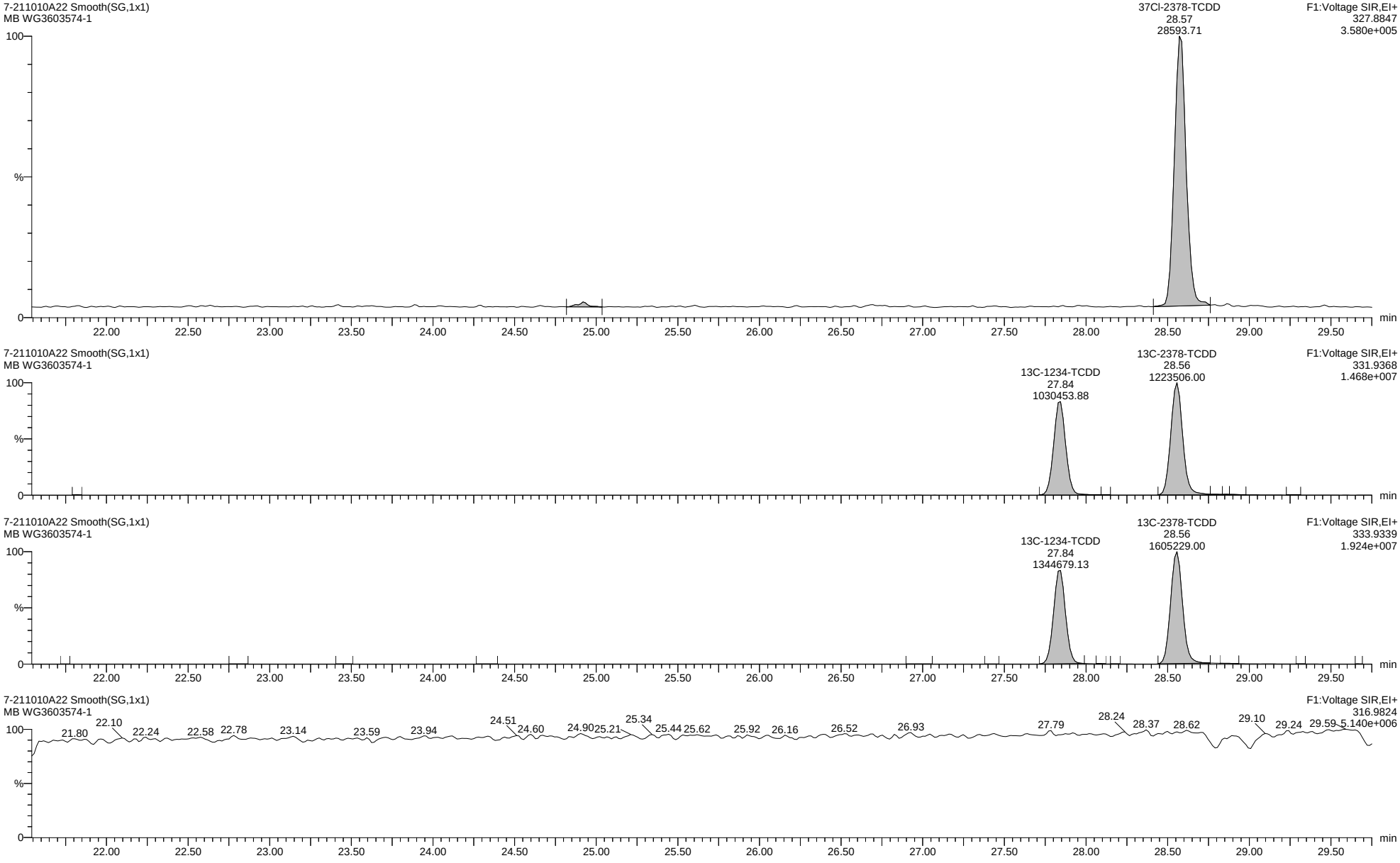

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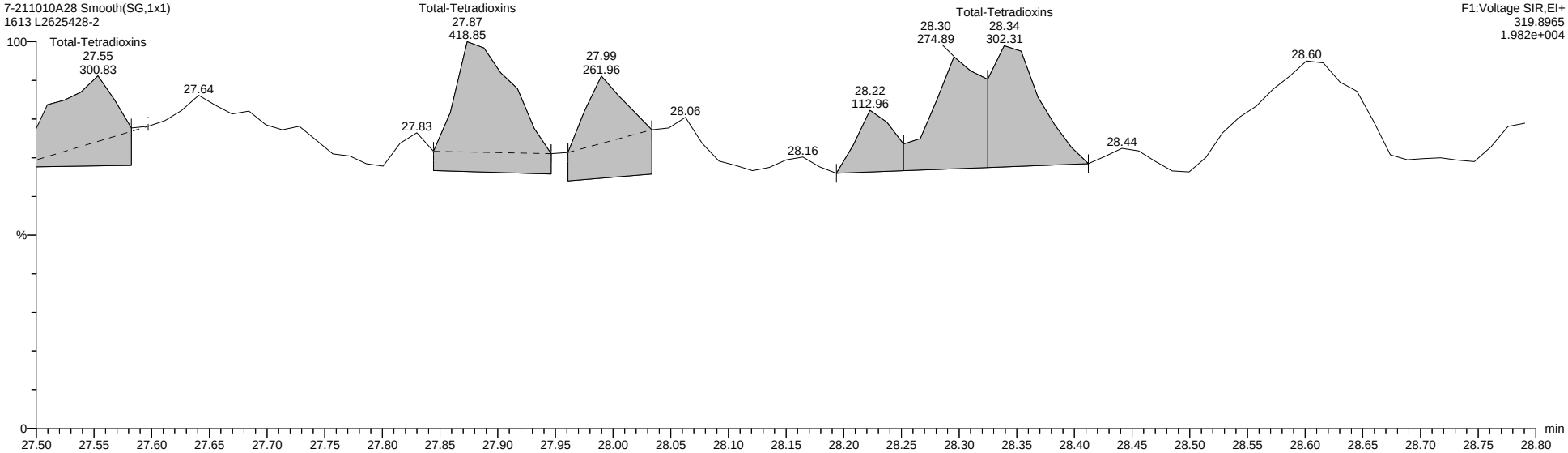

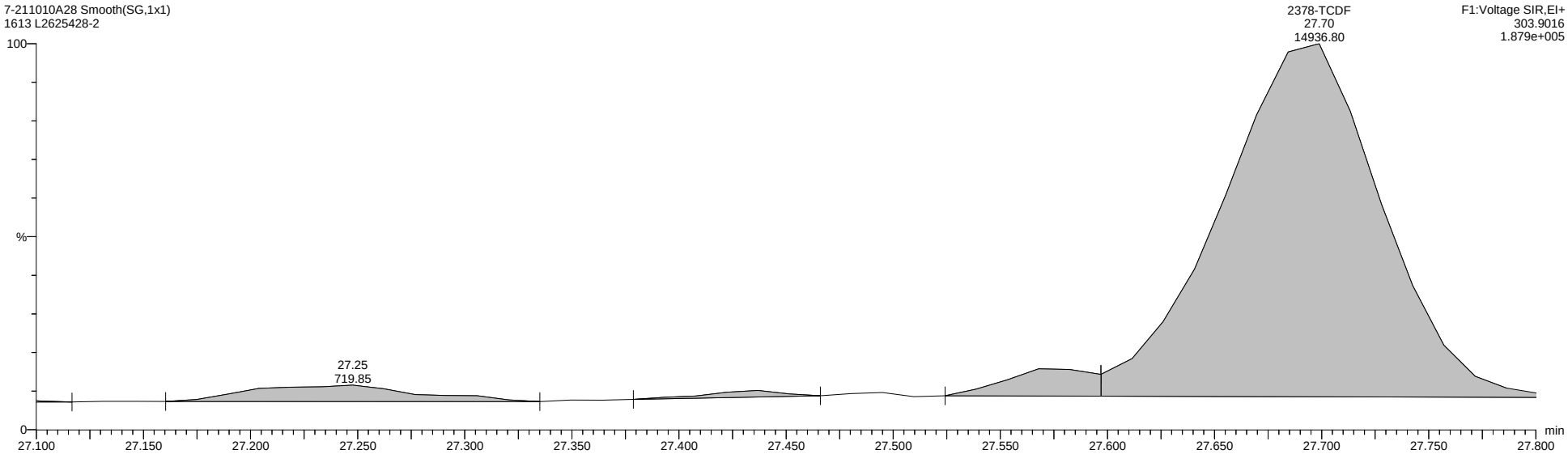

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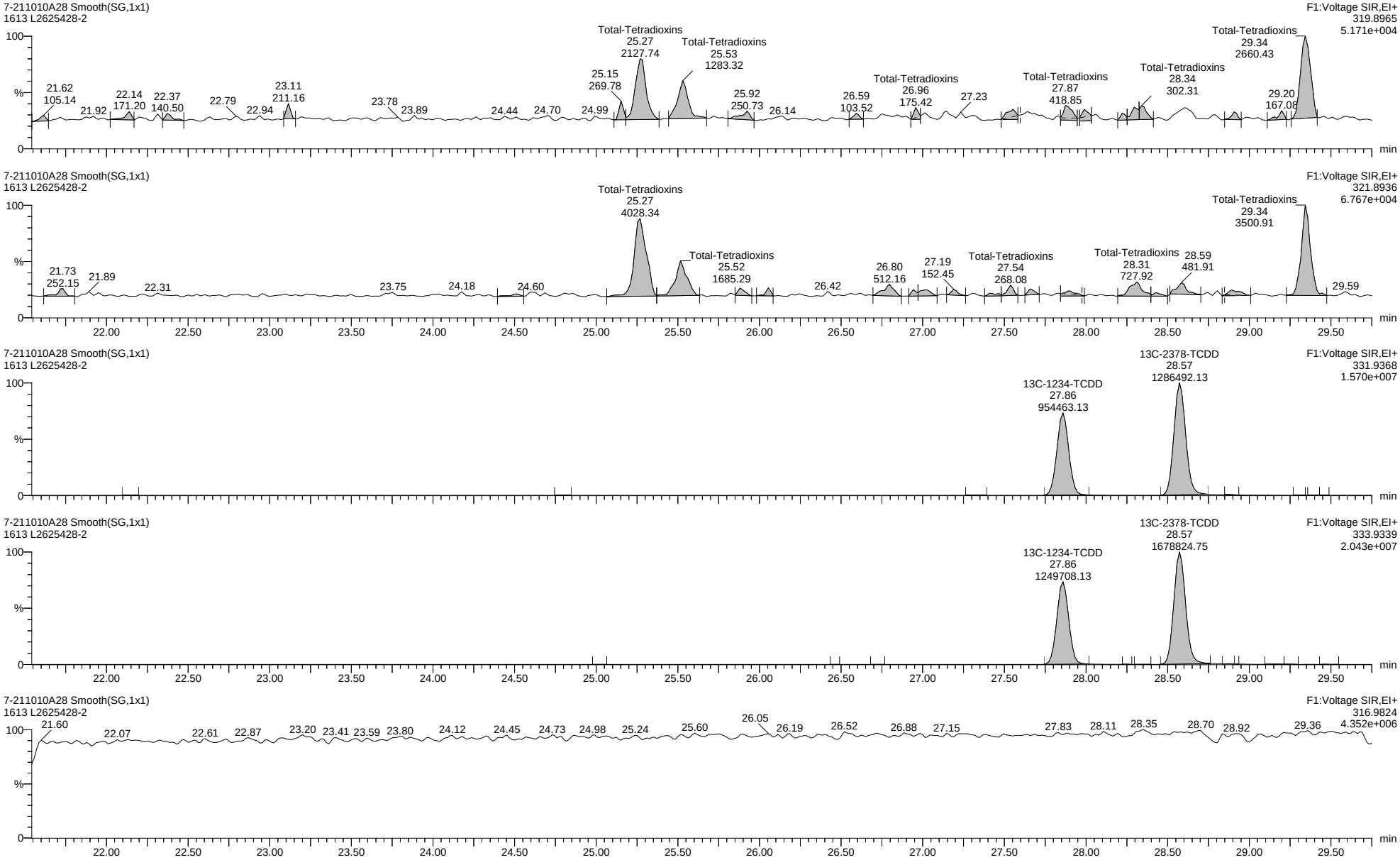

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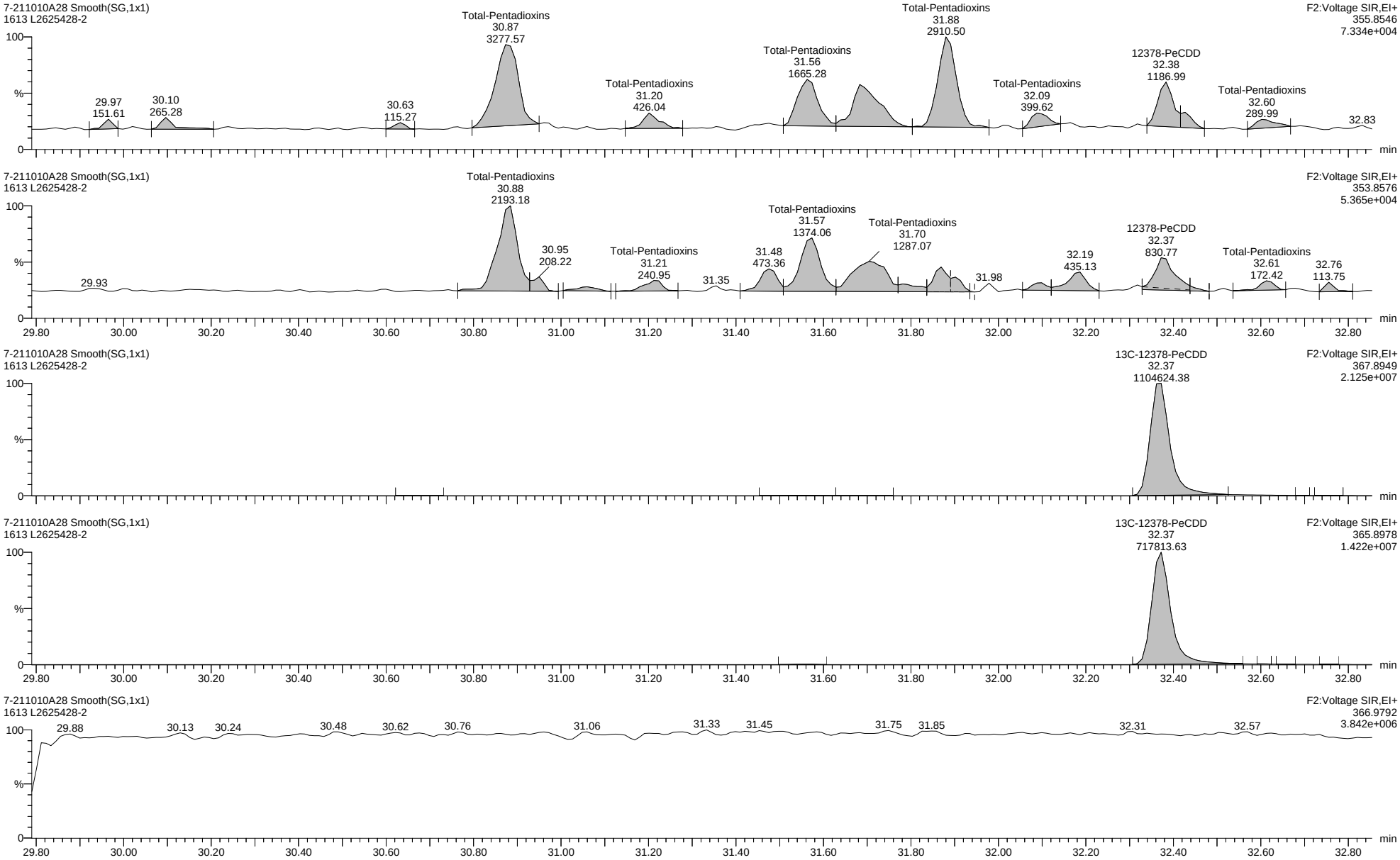

Quantify Sample Template Report **MassLynx MassLynx V4.1 SCN 901**

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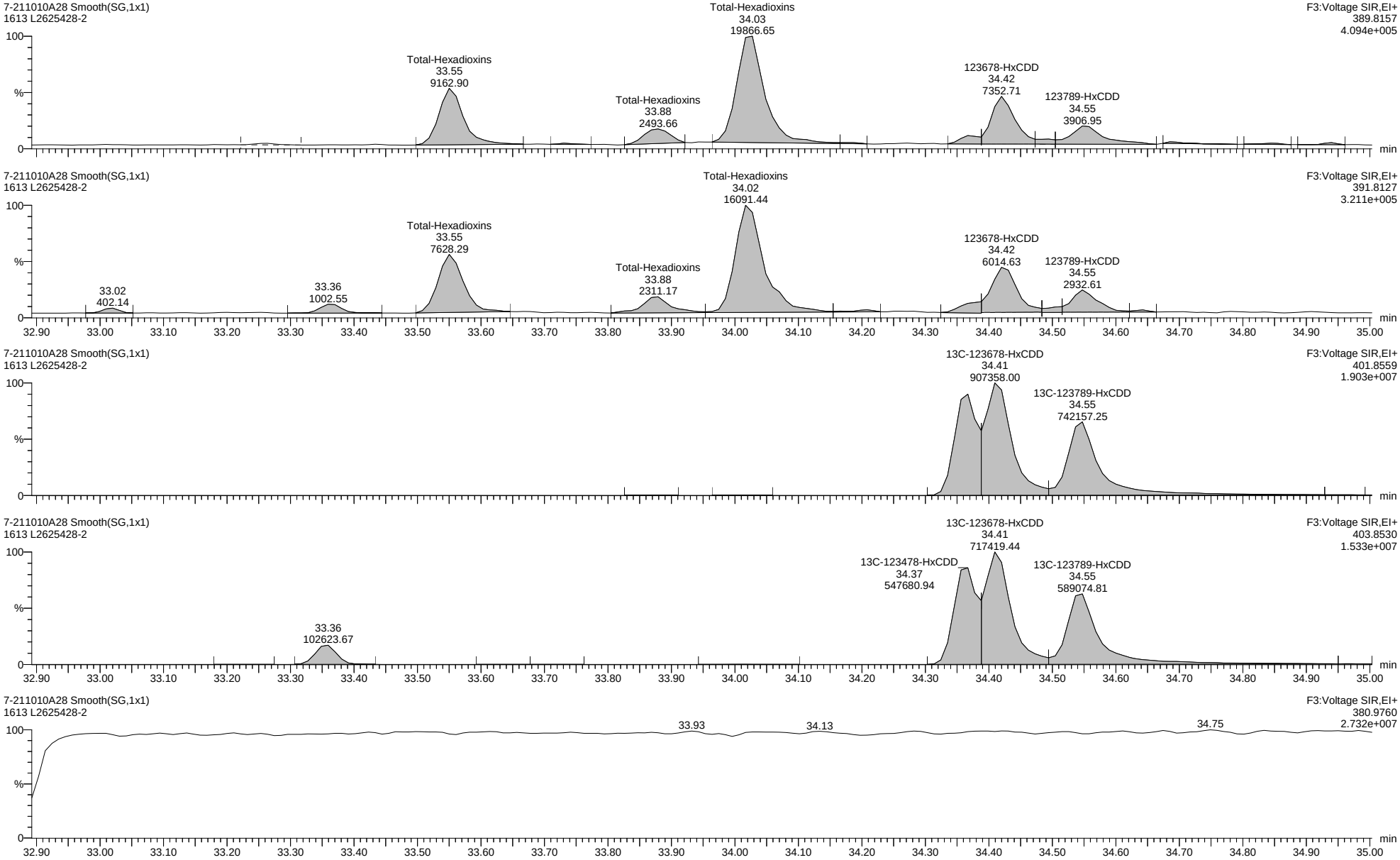

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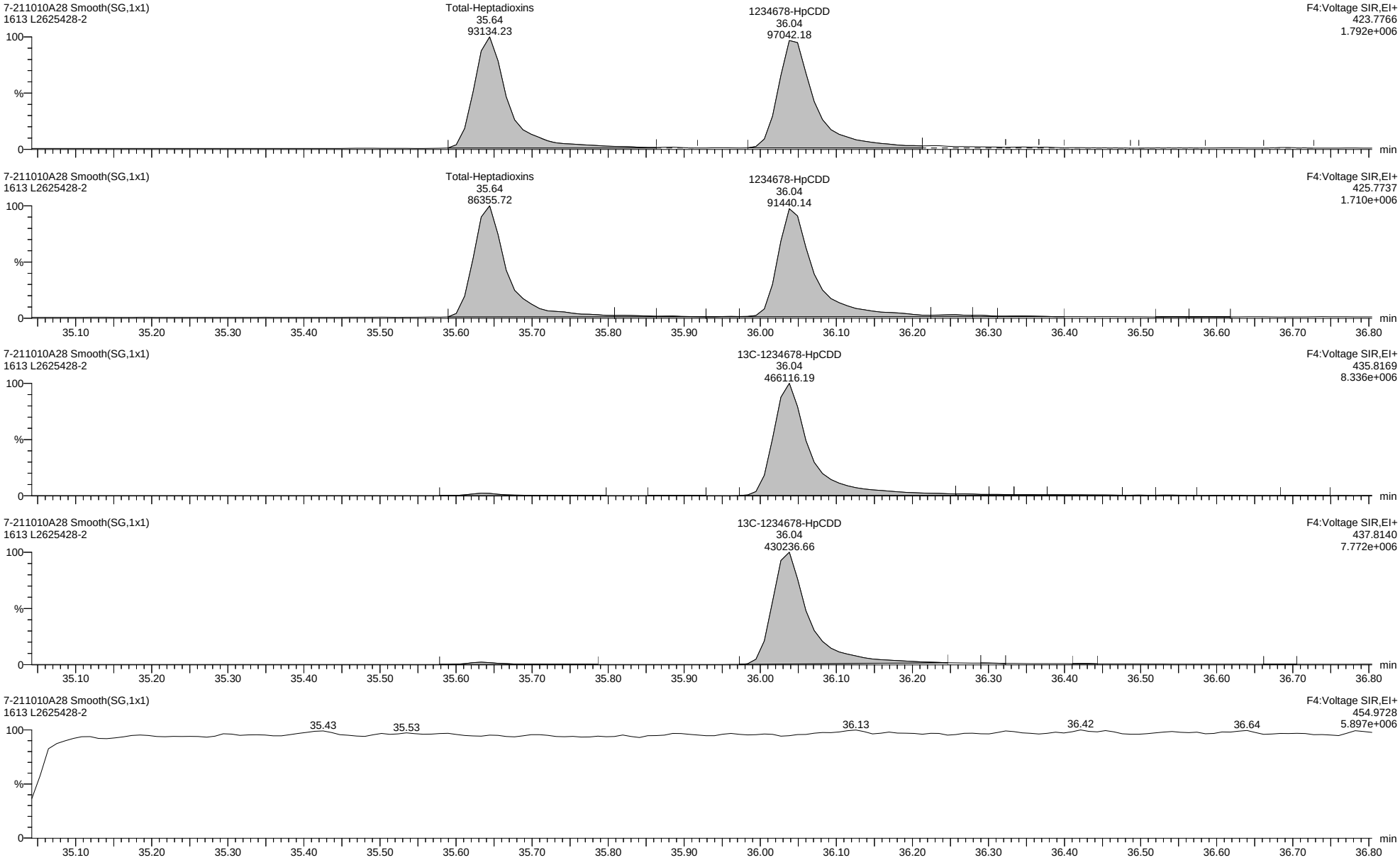

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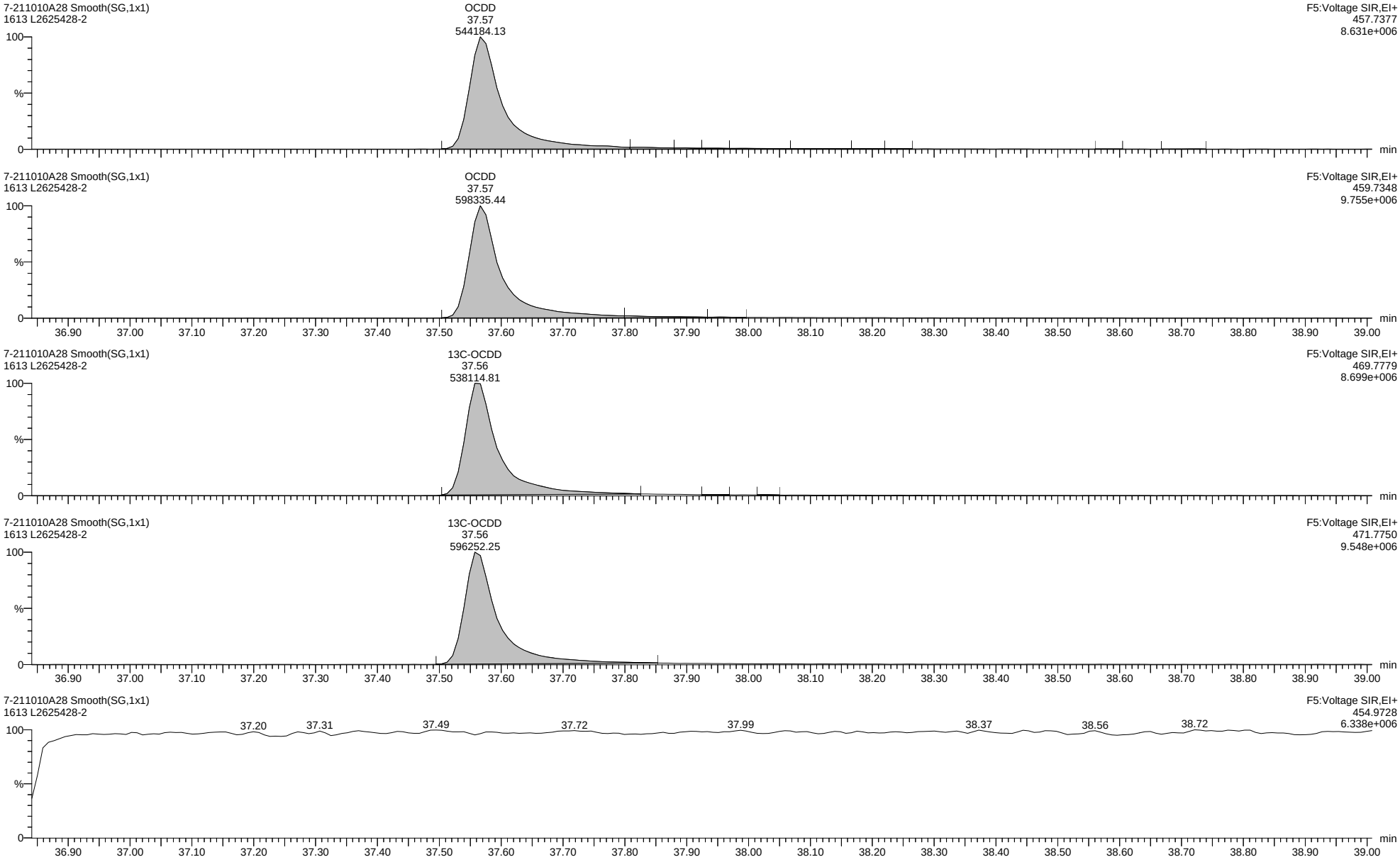

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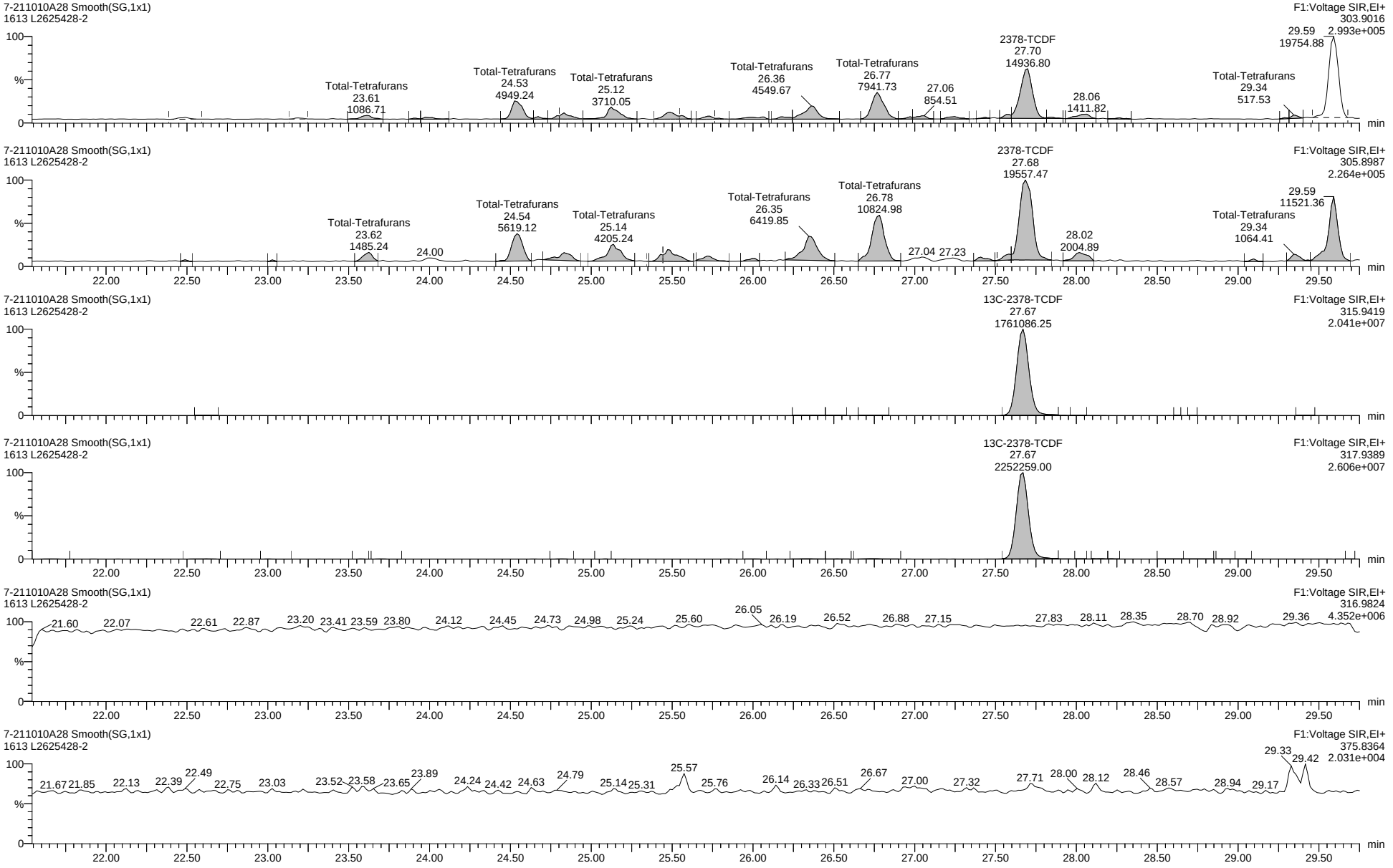

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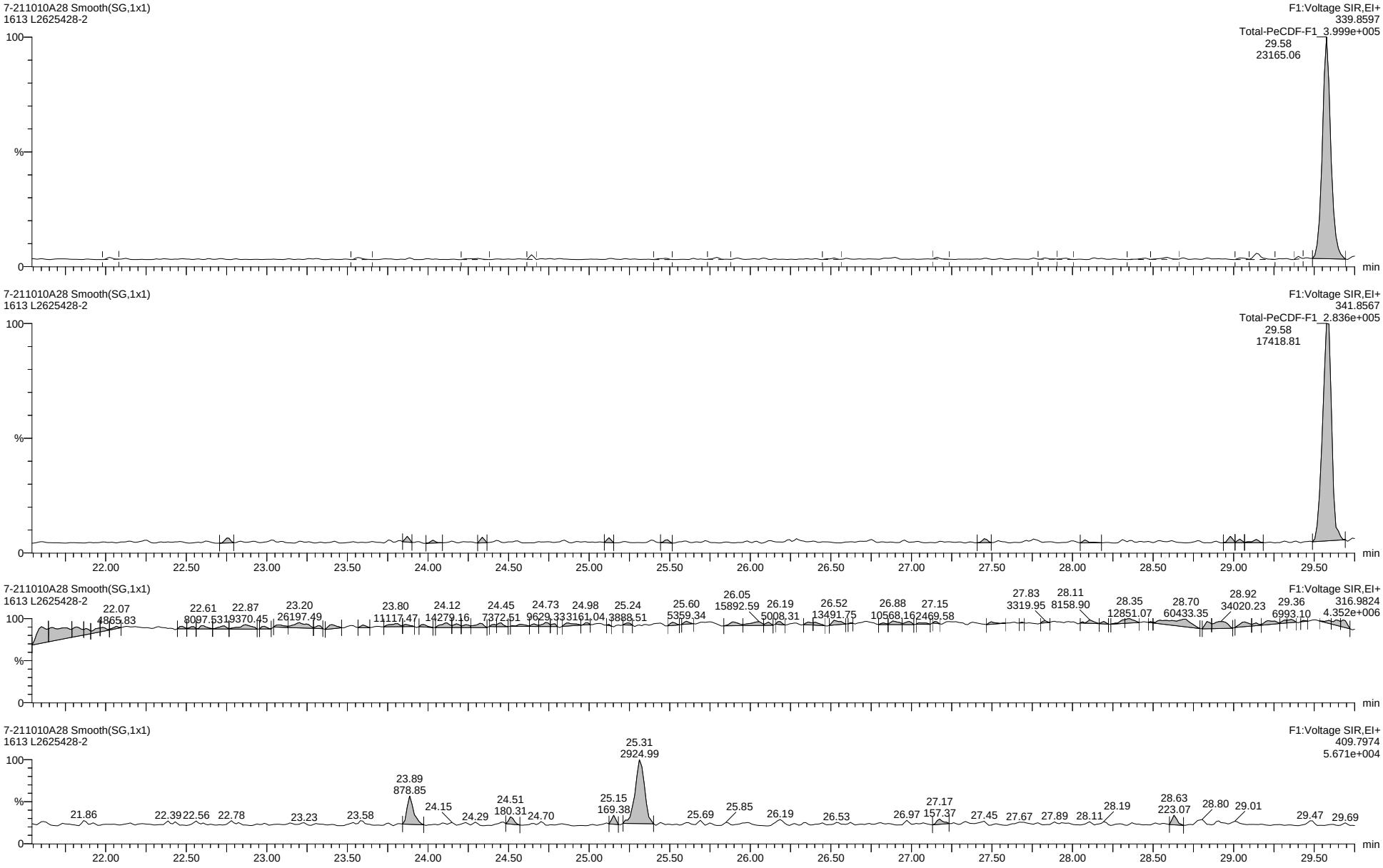

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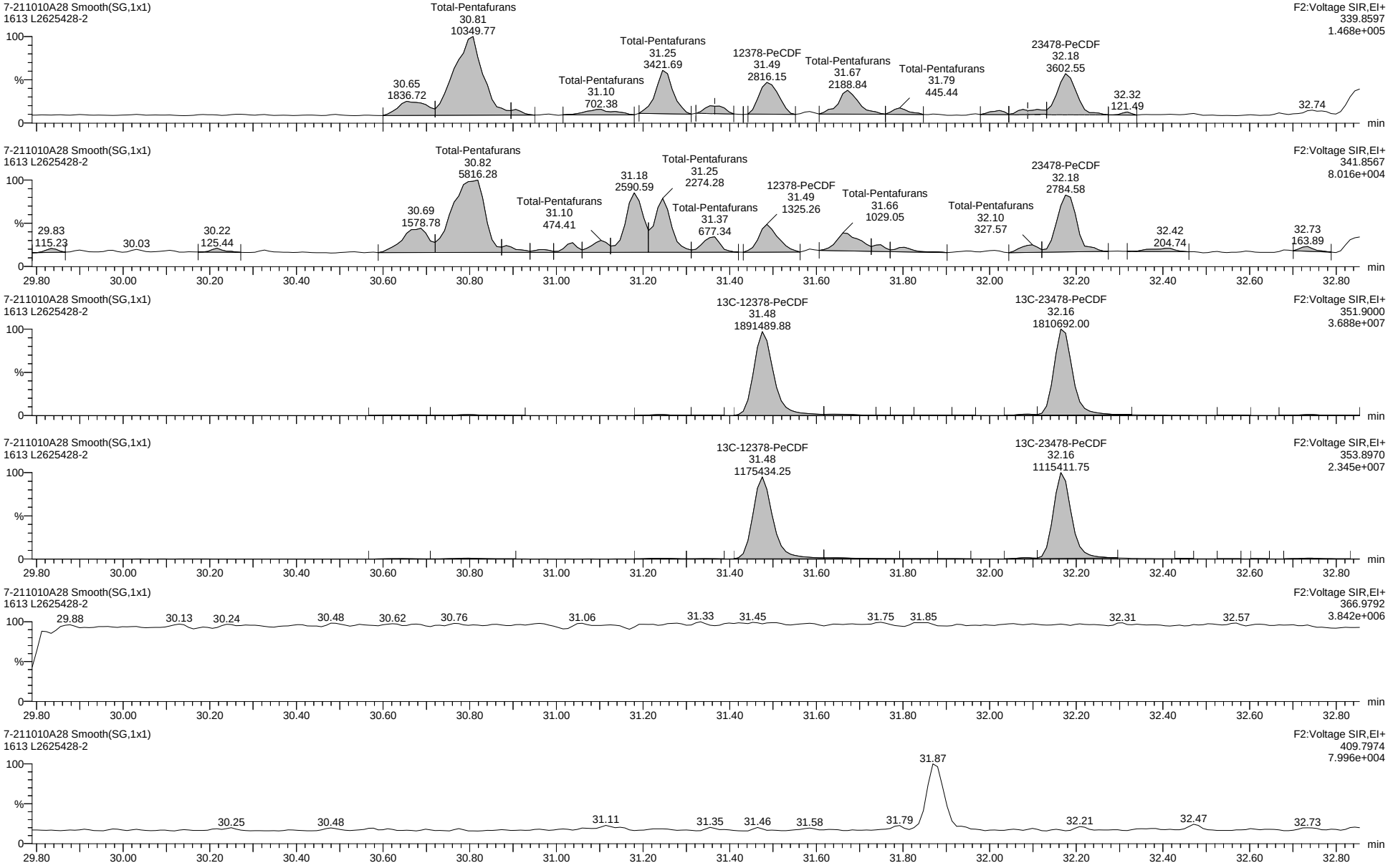

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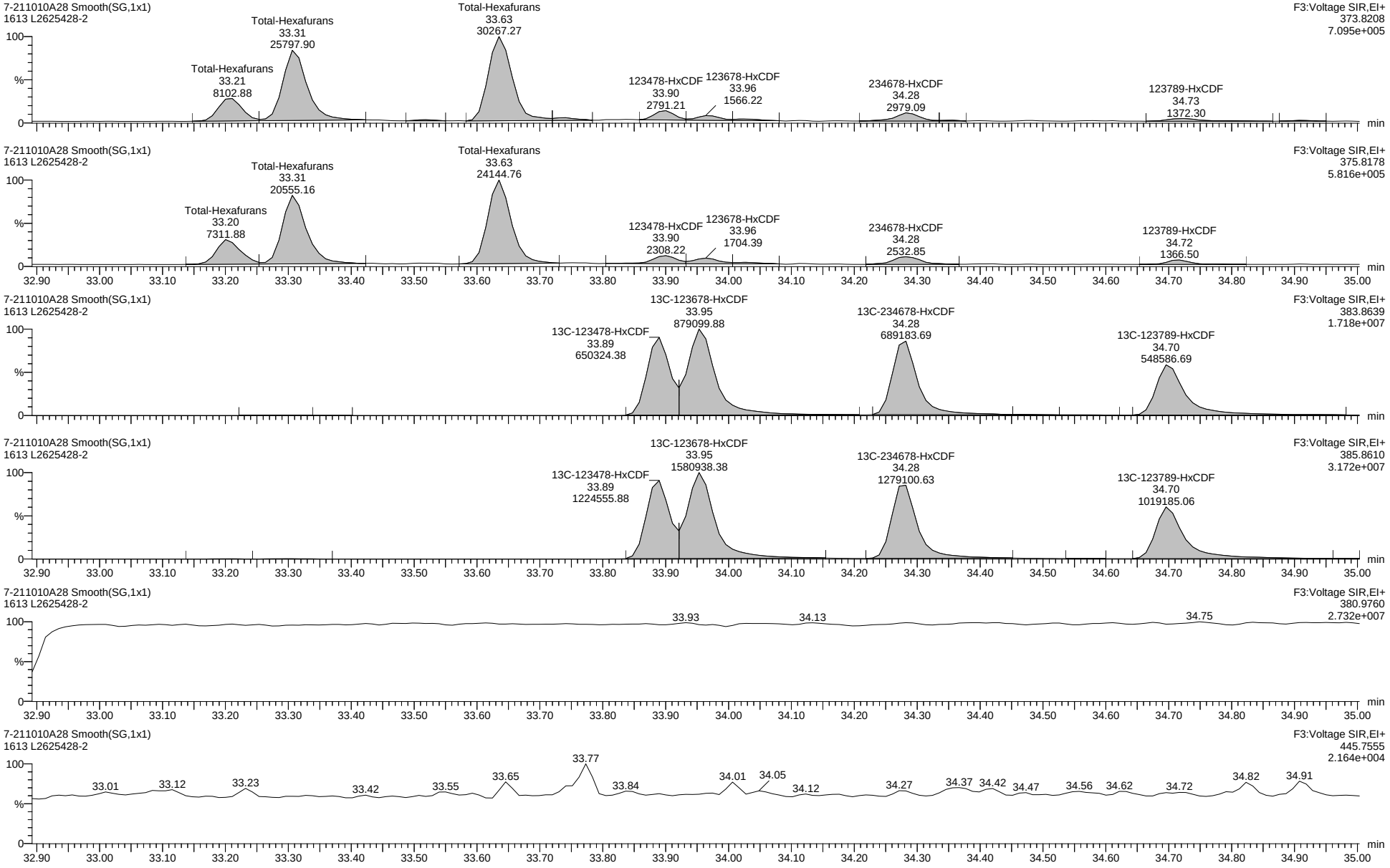

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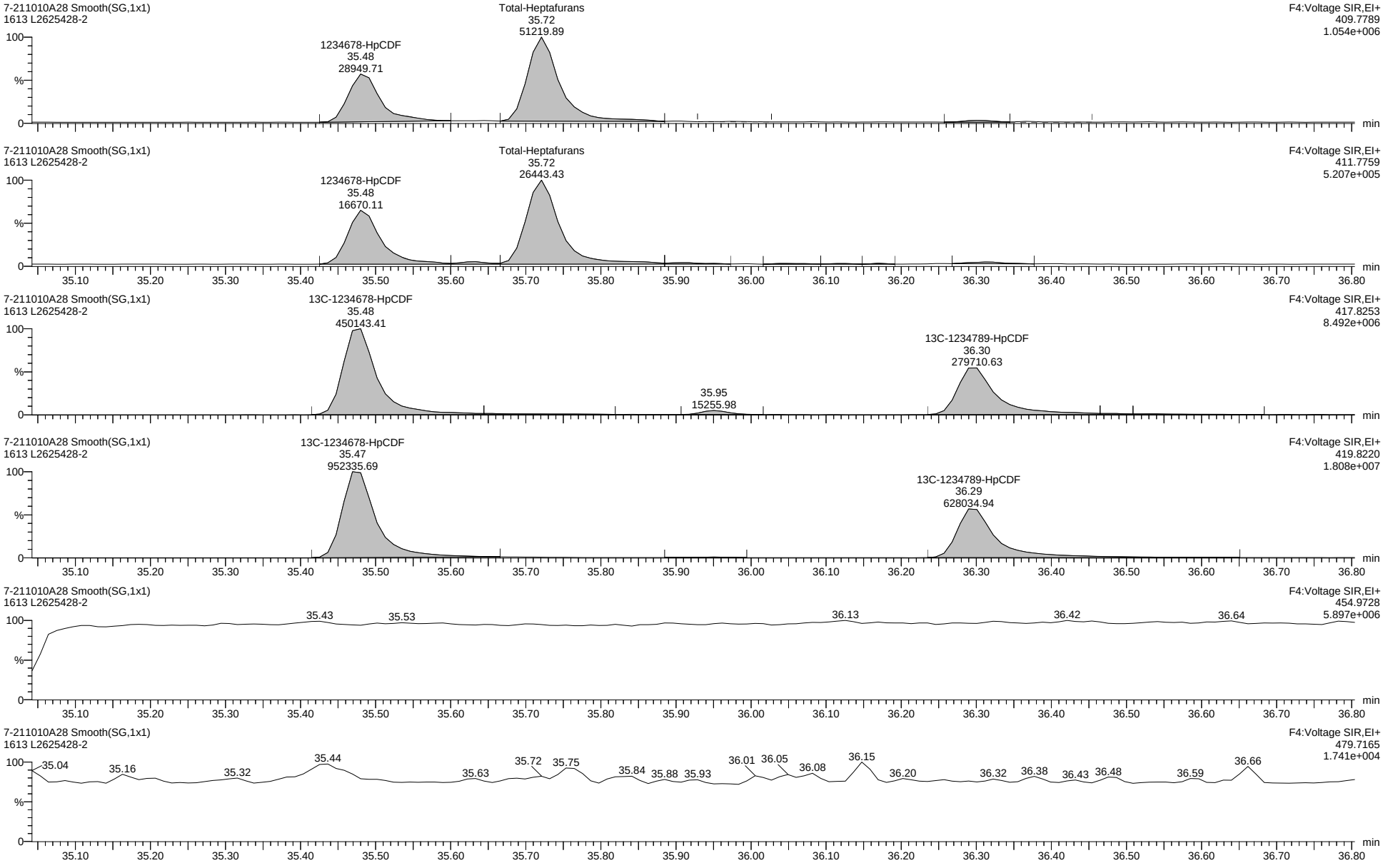

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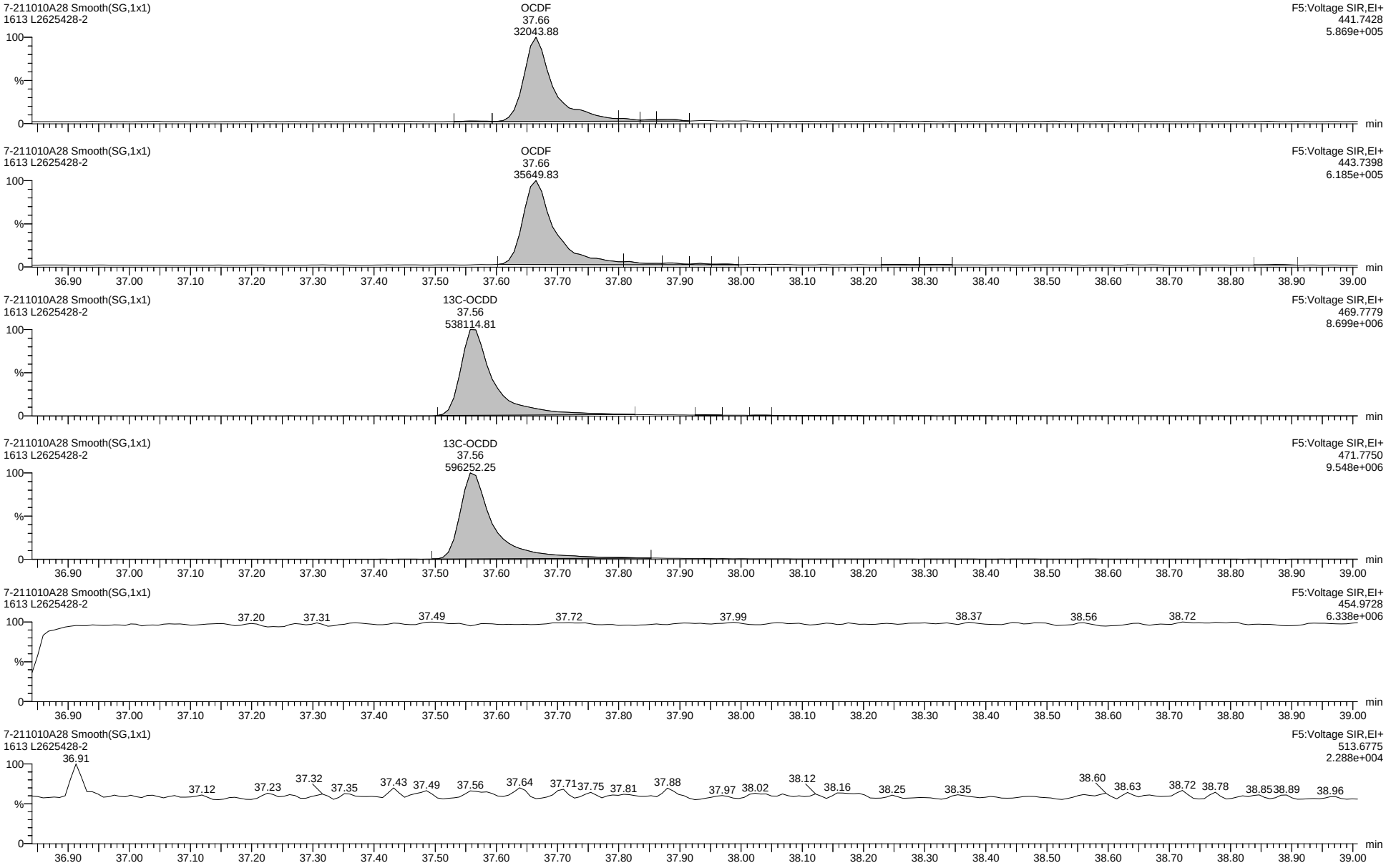

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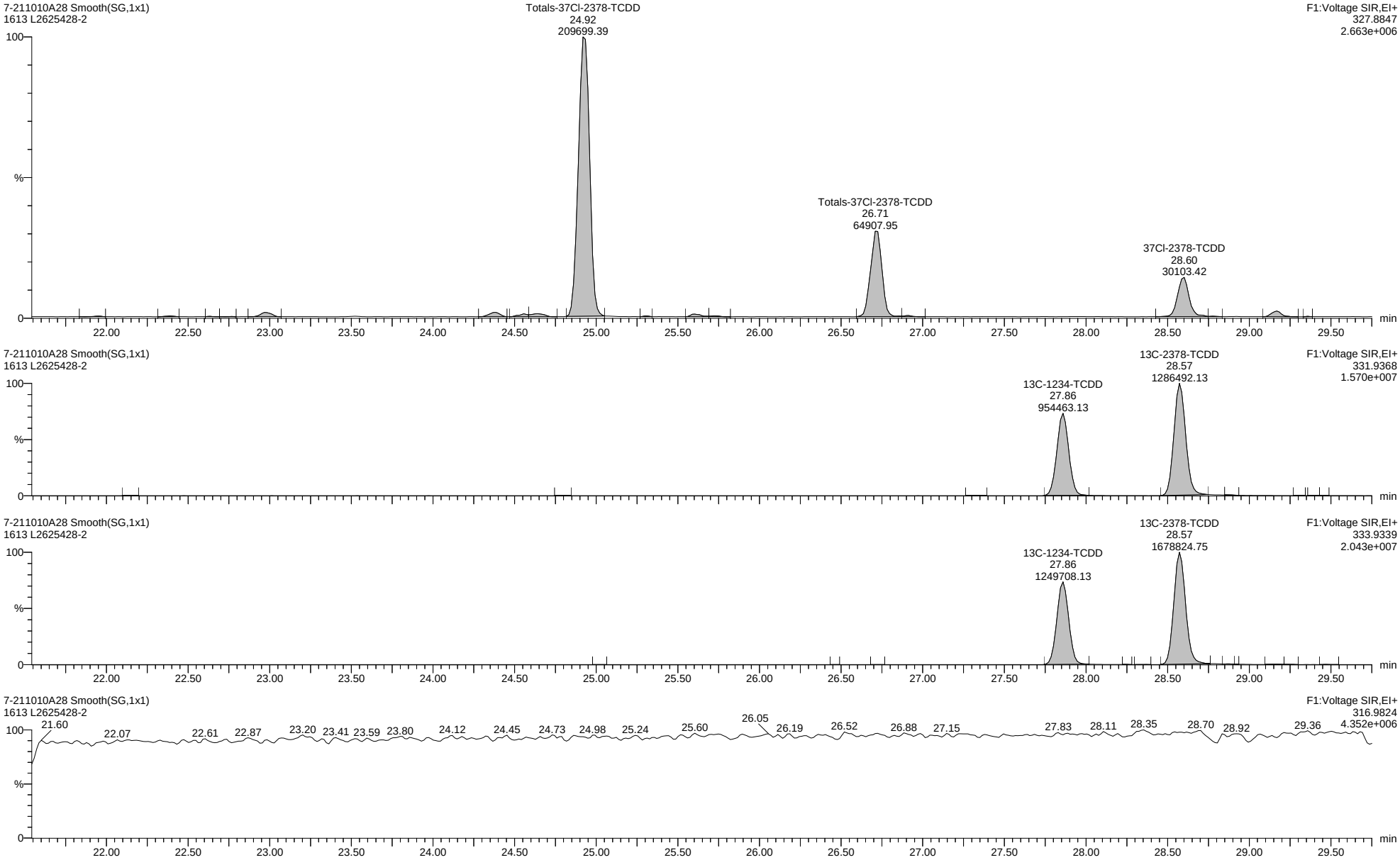

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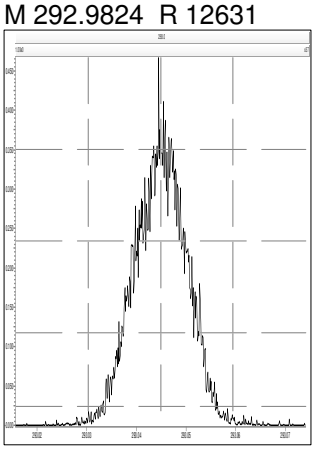
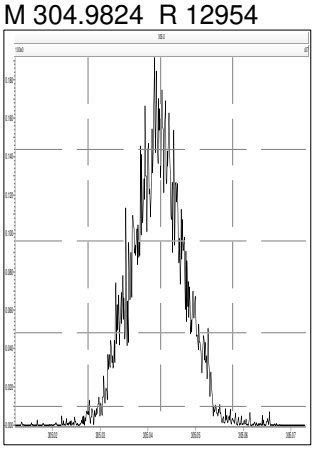
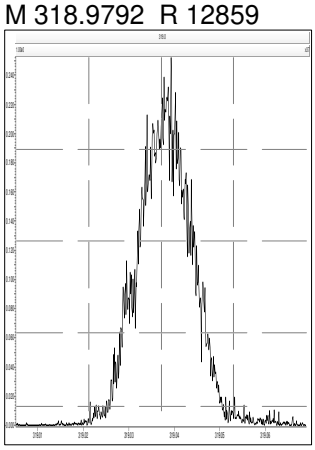


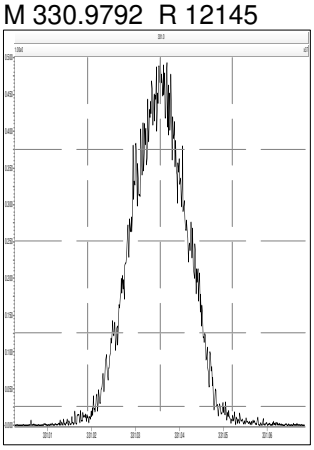
M 304.9824 R 12954



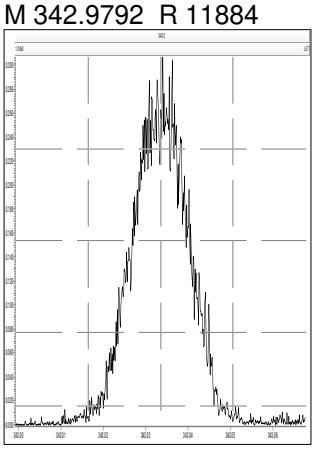
M 318.9792 R 12859



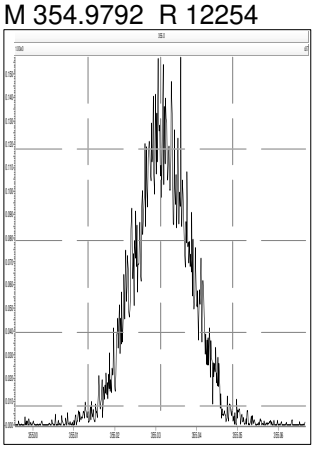
M 330.9792 R 12145



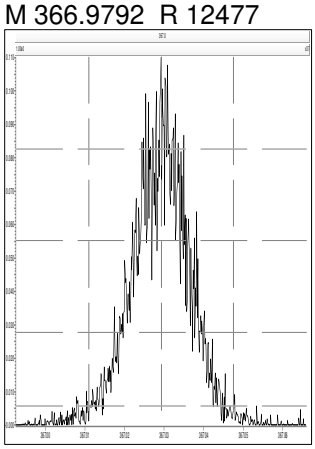
M 342.9792 R 11884



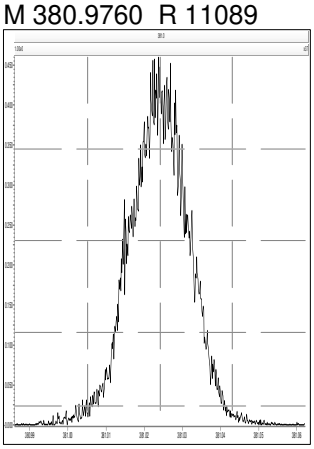
M 354.9792 R 12254



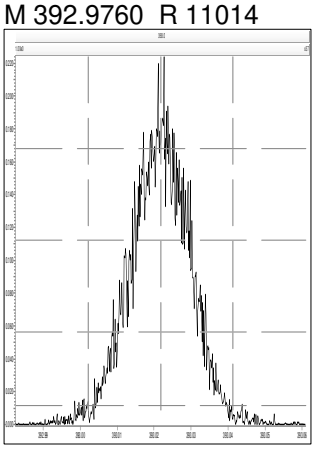
M 366.9792 R 12477



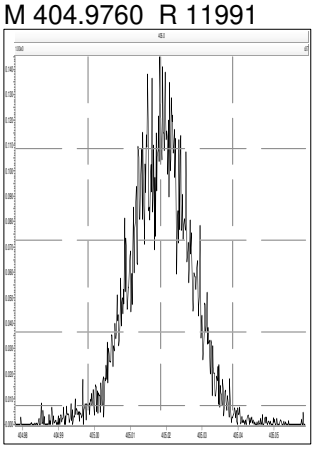
M 380.9760 R 11089



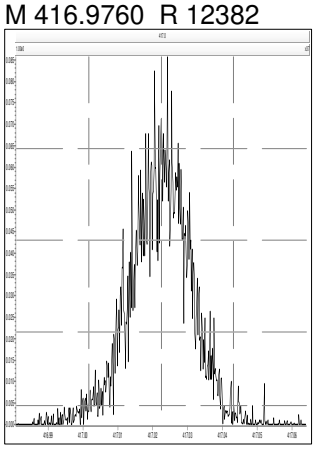
M 392.9760 R 11014



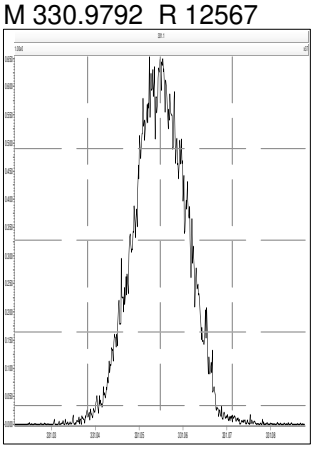
M 404.9760 R 11991



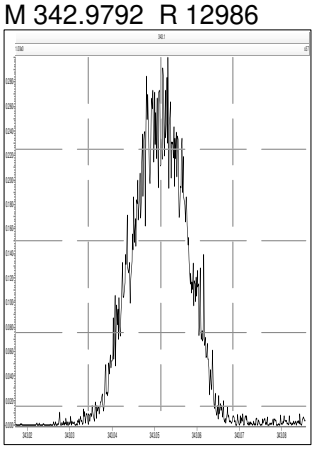
M 416.9760 R 12382



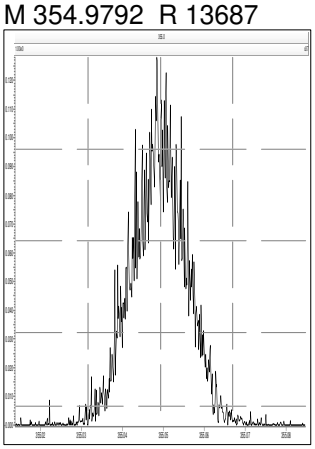
M 330.9792 R 12567



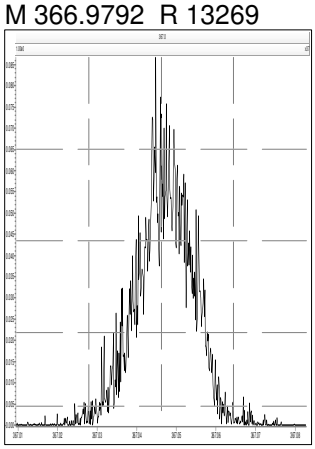
M 342.9792 R 12986



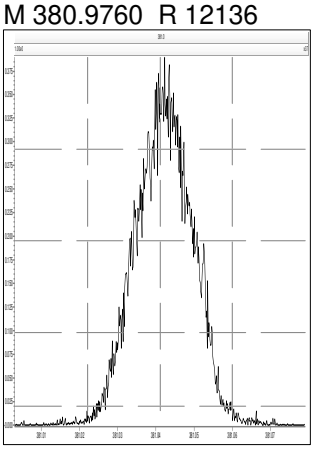
M 354.9792 R 13687



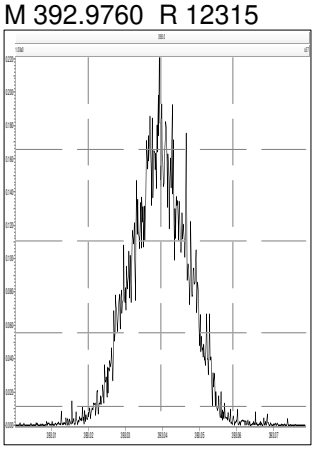
M 366.9792 R 13269



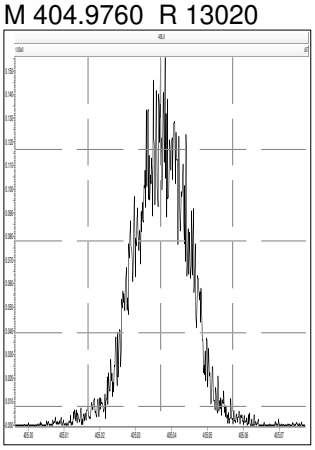
M 380.9760 R 12136



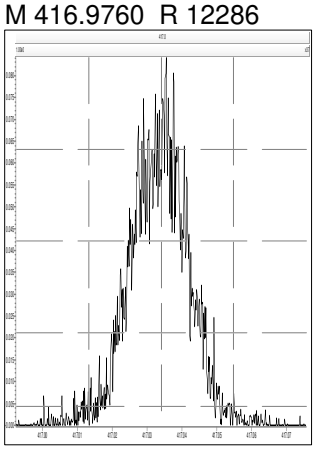
M 392.9760 R 12315



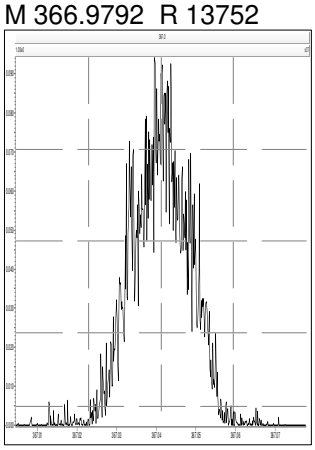
M 404.9760 R 13020



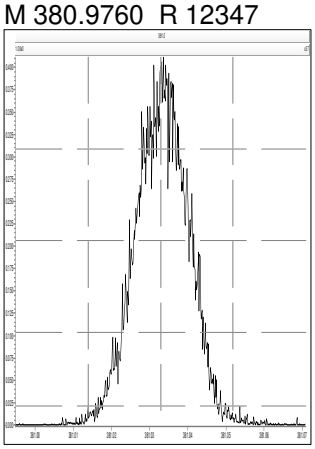
M 416.9760 R 12286



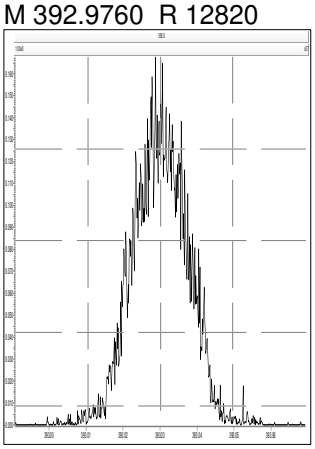
M 366.9792 R 13752



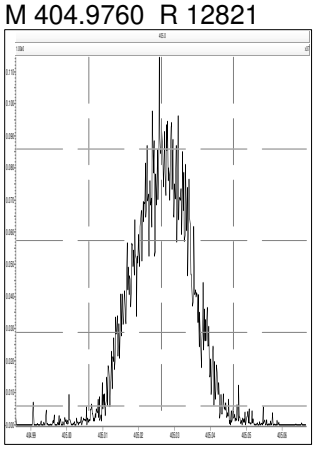
M 380.9760 R 12347



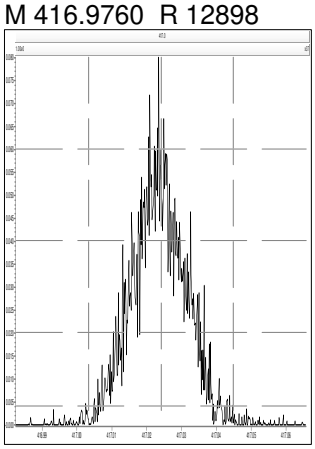
M 392.9760 R 12820



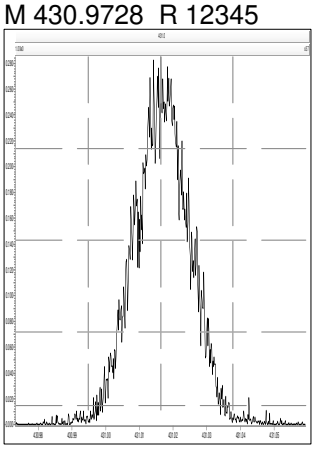
M 404.9760 R 12821



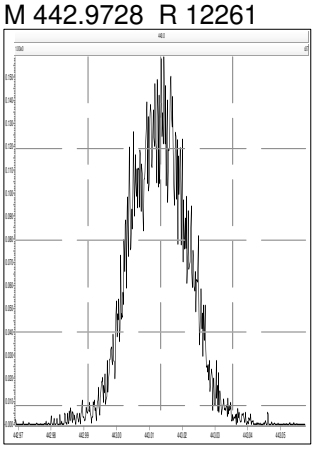
M 416.9760 R 12898



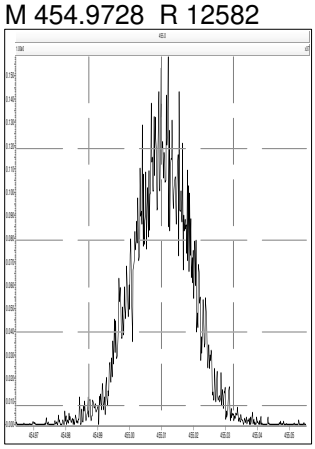
M 430.9728 R 12345



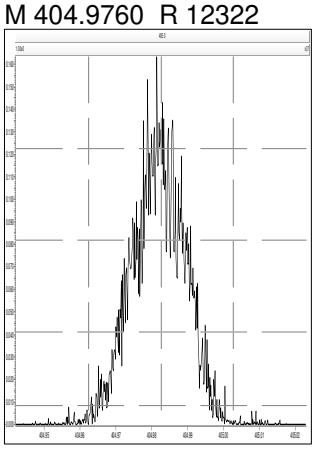
M 442.9728 R 12261



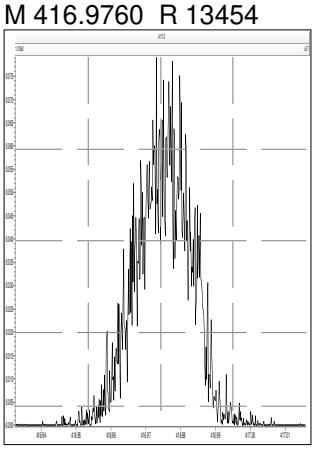
M 454.9728 R 12582



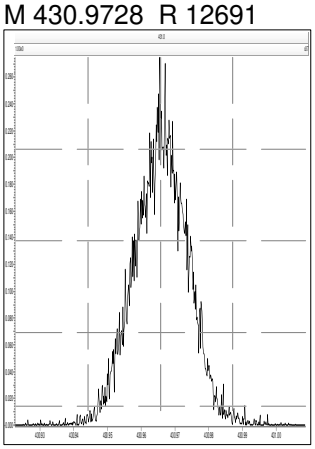
M 404.9760 R 12322



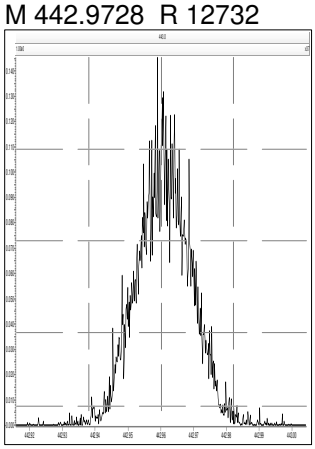
M 416.9760 R 13454



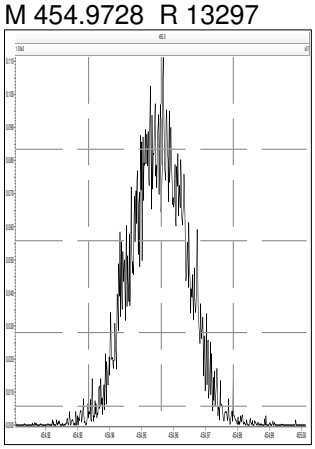
M 430.9728 R 12691



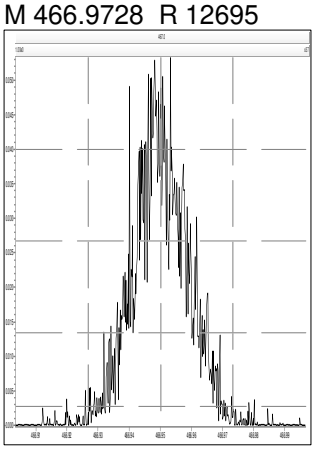
M 442.9728 R 12732



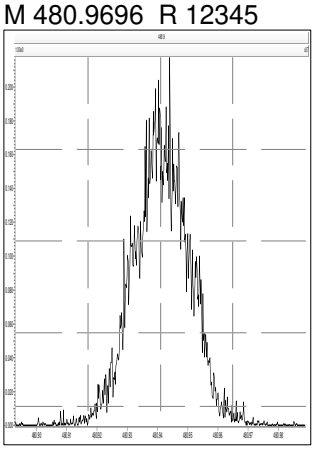
M 454.9728 R 13297



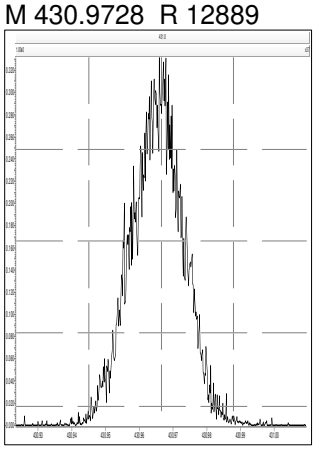
M 466.9728 R 12695



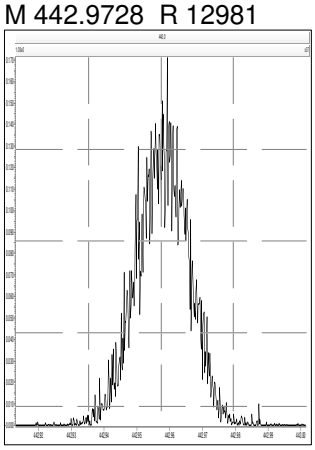
M 480.9696 R 12345



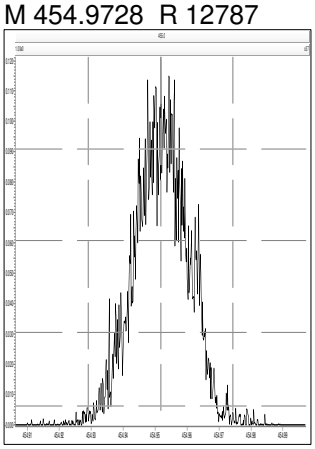
M 430.9728 R 12889



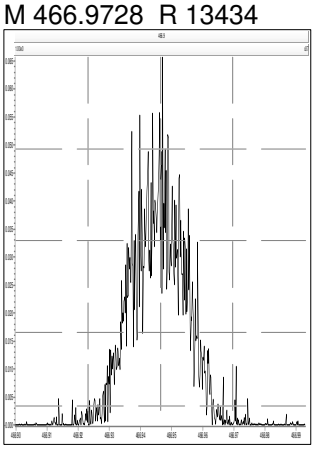
M 442.9728 R 12981



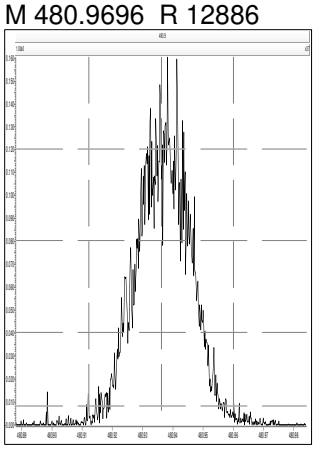
M 454.9728 R 12787



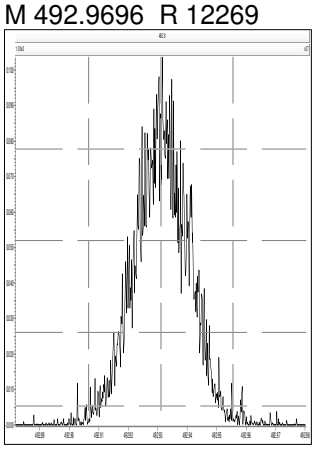
M 466.9728 R 13434



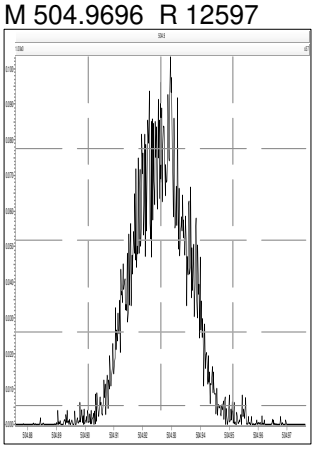
M 480.9696 R 12886



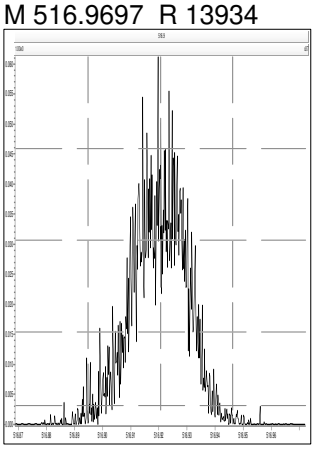
M 492.9696 R 12269



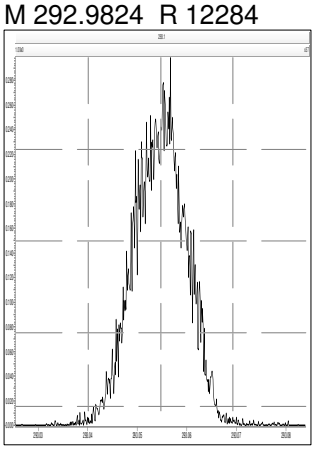
M 504.9696 R 12597



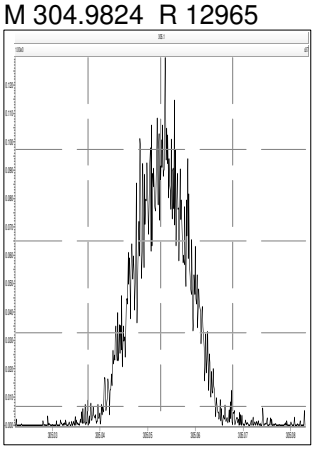
M 516.9697 R 13934



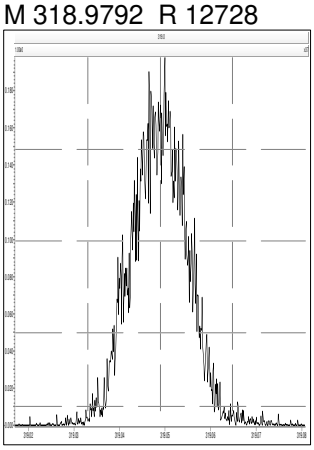
M 292.9824 R 12284



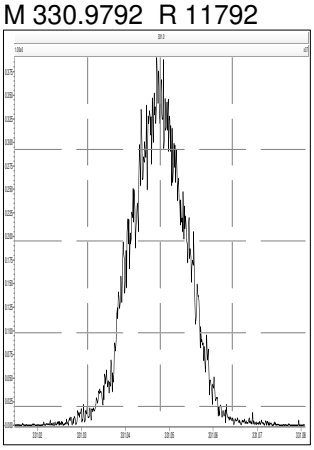
M 304.9824 R 12965



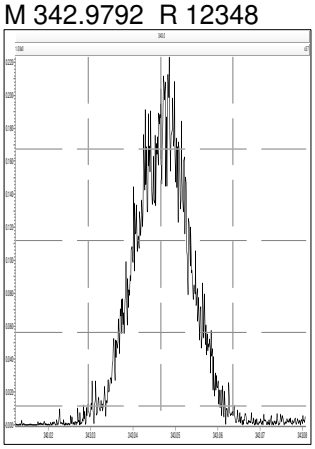
M 318.9792 R 12728



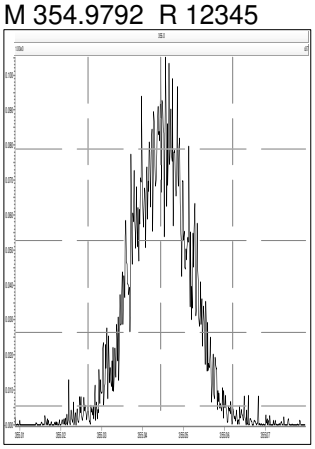
M 330.9792 R 11792



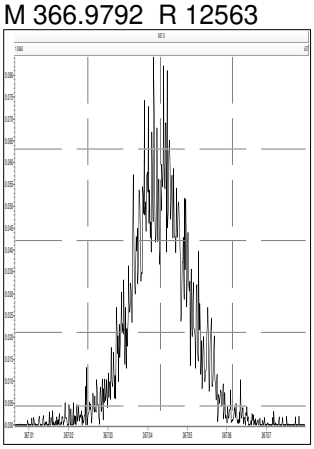
M 342.9792 R 12348



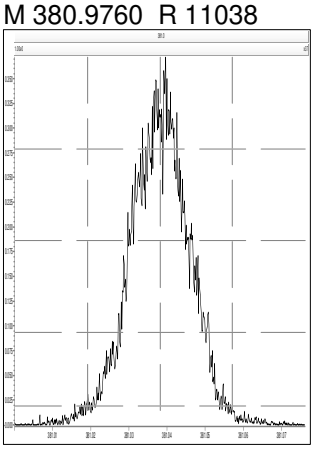
M 354.9792 R 12345



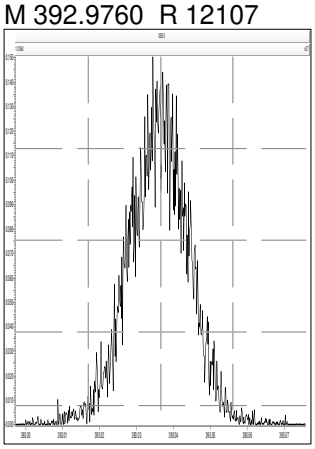
M 366.9792 R 12563



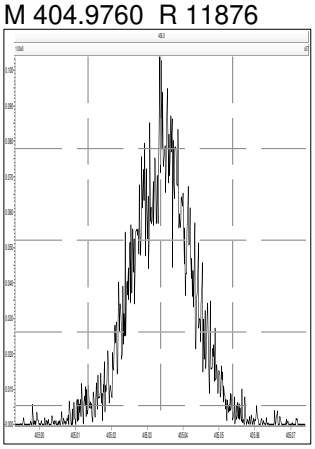
M 380.9760 R 11038



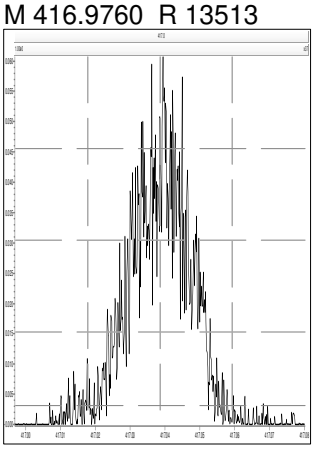
M 392.9760 R 12107



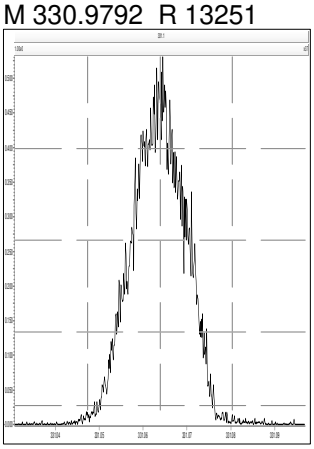
M 404.9760 R 11876



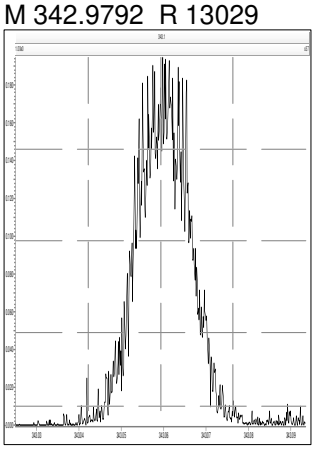
M 416.9760 R 13513



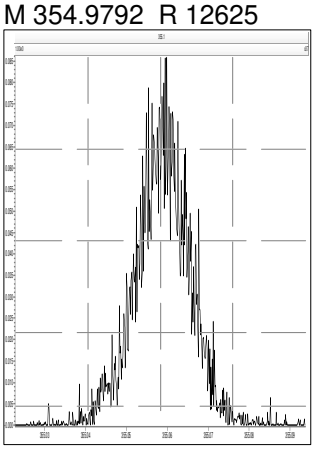
M 330.9792 R 13251



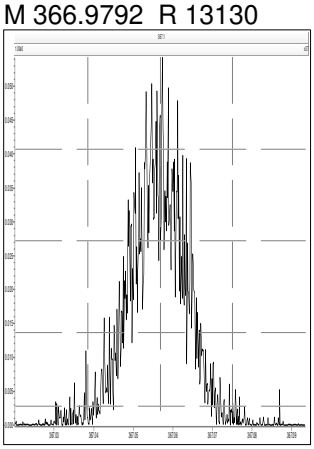
M 342.9792 R 13029



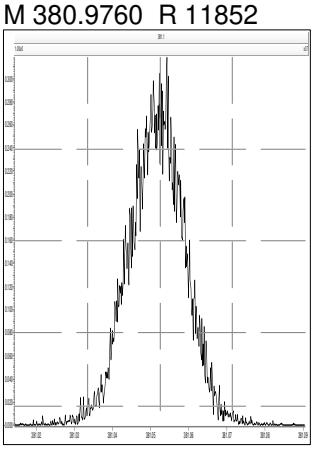
M 354.9792 R 12625



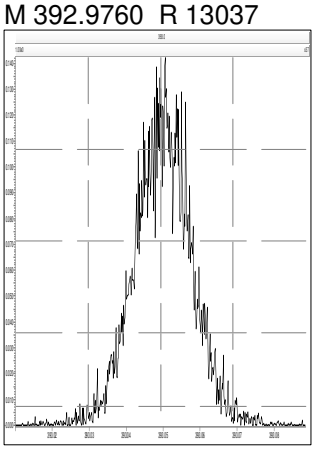
M 366.9792 R 13130



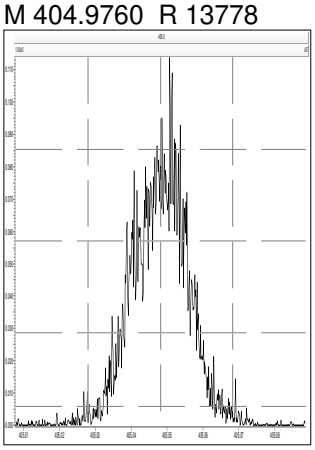
M 380.9760 R 11852



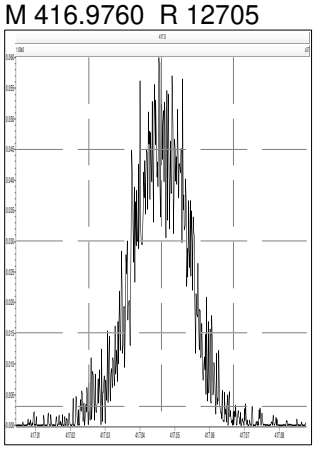
M 392.9760 R 13037



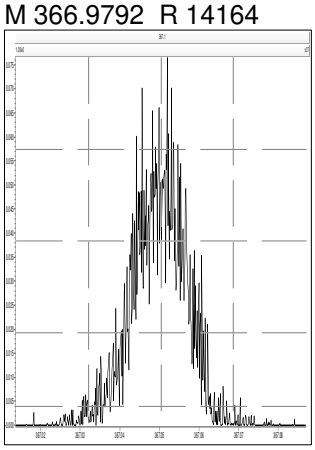
M 404.9760 R 13778



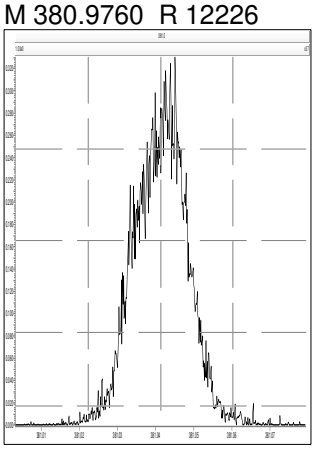
M 416.9760 R 12705



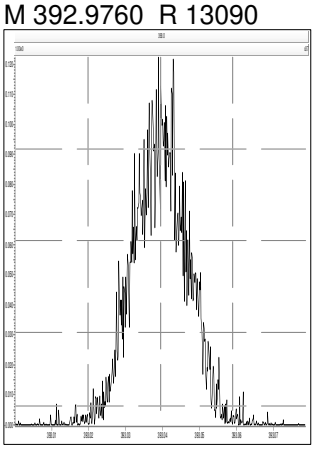
M 366.9792 R 14164



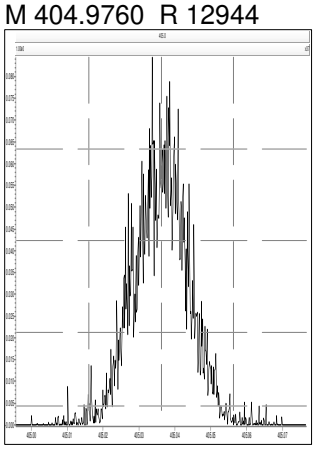
M 380.9760 R 12226



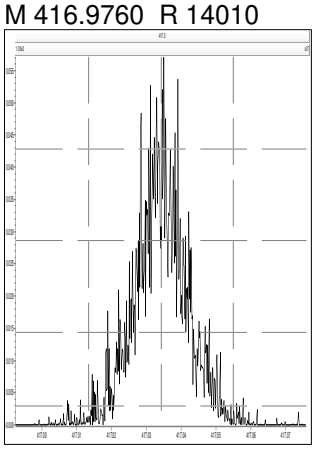
M 392.9760 R 13090



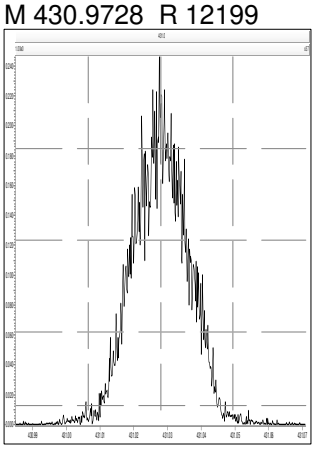
M 404.9760 R 12944



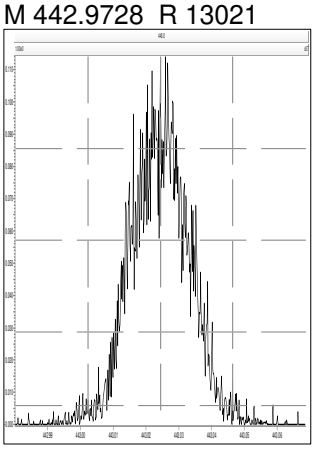
M 416.9760 R 14010



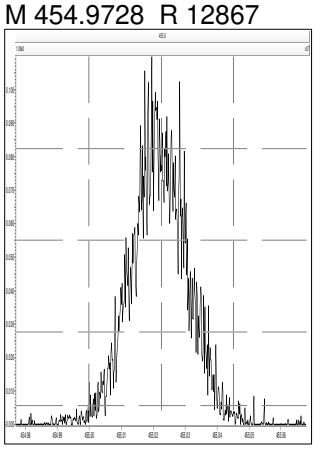
M 430.9728 R 12199



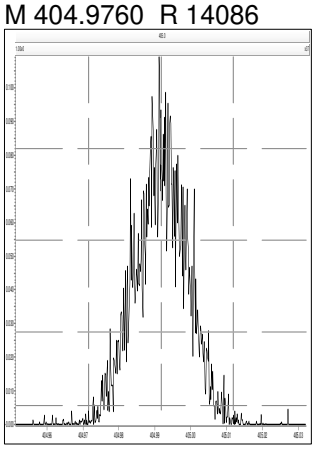
M 442.9728 R 13021



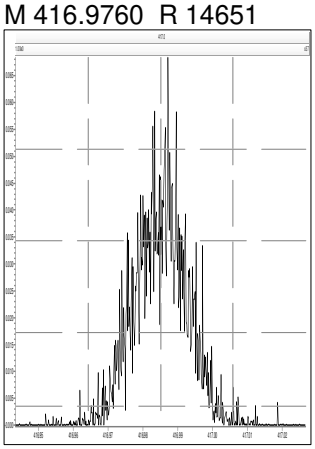
M 454.9728 R 12867



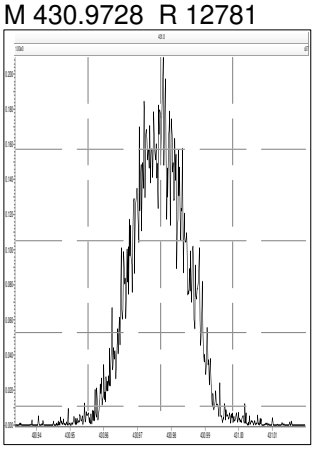
M 404.9760 R 14086



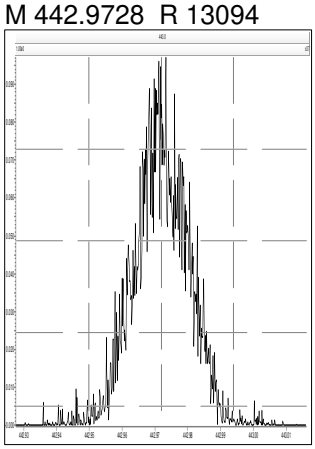
M 416.9760 R 14651



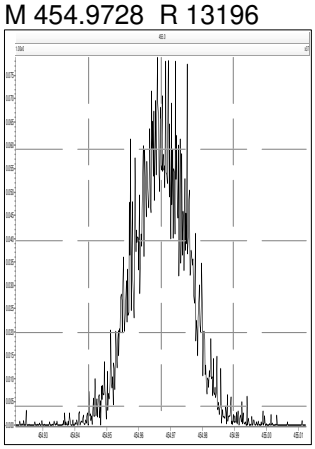
M 430.9728 R 12781



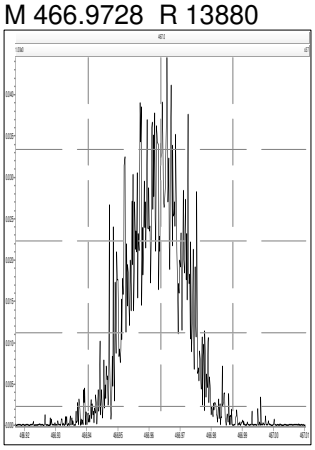
M 442.9728 R 13094



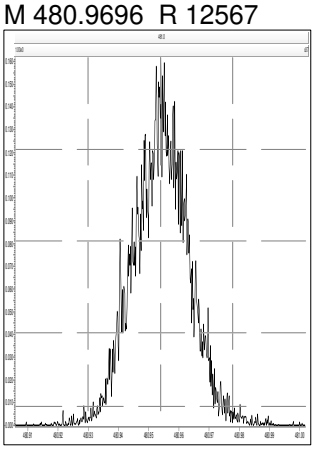
M 454.9728 R 13196



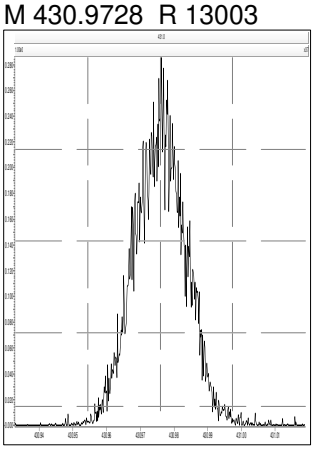
M 466.9728 R 13880



M 480.9696 R 12567



M 430.9728 R 13003



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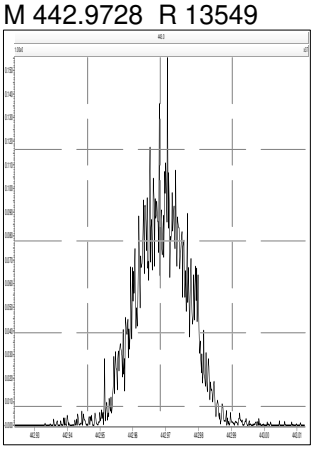
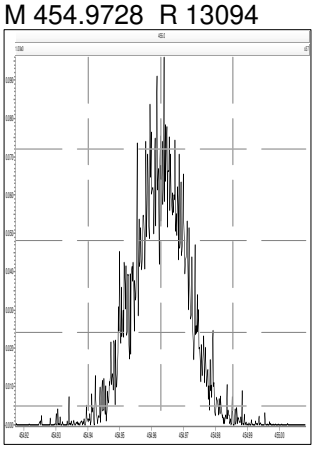
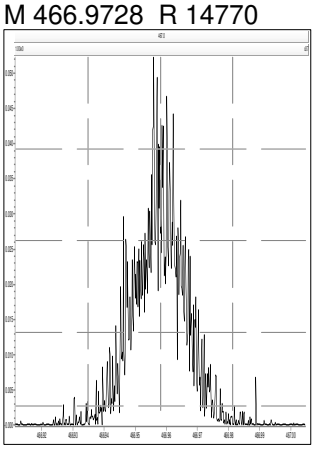


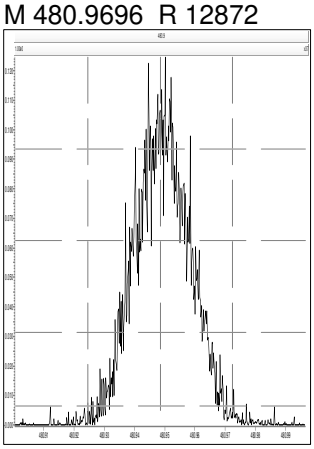
M 454.9728 R 13094



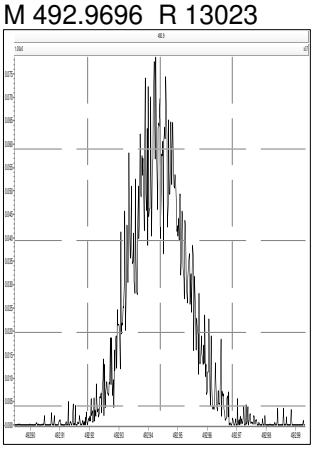
M 466.9728 R 14770



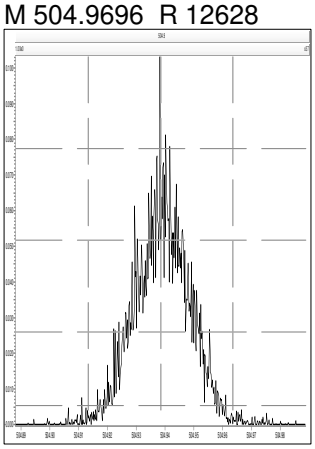
M 480.9696 R 12872



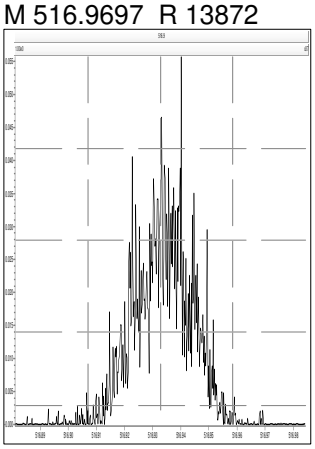
M 492.9696 R 13023



M 504.9696 R 12628



M 516.9697 R 13872



1435 Norjohn Court, Unit 1, Burlington, ON, Canada L7L 0E6

SVOC DATA PACKAGE

APPENDIX 1: INSTRUMENT OUTPUT DOCUMENTS

Including For Each Analytical Sequence::

- The scanned instrument runlogs

- Instrument output (SICP chromatograms) indicating the integrations used for quantification including:
  - GC chromatographic resolution checks, where appropriate
  - SICPs for the run
  - SICP chromatograms indicating both the automated and manual peak integrati where this has been edited

- Reference peak profiles indicating the mass resolution
  - Pre-run mass calibration check printouts
  - Post-run mass calibration check printouts

	File Name	Sample ID	File Text	MS File	Inlet File	Bottle	Inject Vol	
1	5-201202A01	H5-20-CS3-1035	1668A-CS3-020	1668_octyl_1	1668_octyl_1	Tray1:1	1.000000	
2	5-201202A02	H5-20-CS2-1035	1668A-CS2-020	1668_octyl_1	1668_octyl_1	Tray1:4	1.000000	
3	5-201202A03	H5-20-CS1-1035	1668A-CS1-020	1668_octyl_1	1668_octyl_1	Tray1:5	1.000000	
4	5-201202A04	H5-20-CS0-1035	1668A-CS0-020	1668_octyl_1	1668_octyl_1	Tray1:6	1.000000	
5	5-201202A07	H5-20-CS4-1035	1668A-CS4-020	1668_octyl_1	1668_octyl_1	Tray1:7	1.000000	
6	5-201202A08	H5-20-CS5-1035	1668A-CS5-020	1668_octyl_1	1668_octyl_1	Tray1:8	1.000000	
7	5-201202A09	H5-20-RS1-1035	1668A-RS1-020	1668_octyl_1	1668_octyl_1	Tray1:9	1.000000	
8	5-201202A10	H5-20-RS2-1035	1668A-RS2-020	1668_octyl_1	1668_octyl_1	Tray1:10	1.000000	
9	5-201202A12	H5-20-WDM-1036	1668A-CS7-020	1668_octyl_1	1668_octyl_1	Tray1:2	1.000000	
10	5-201202A13	H5-20-CCV-1037	1668A-CS3-020	1668_octyl_1	1668_octyl_1	Tray1:1	1.000000	
11	5-201202A14	WG3443337-2	LCS	1668_octyl_1	1668_octyl_1	Tray1:7	1.000000	
12	5-201202A15	TOLUENE	INST BLANK	1668_octyl_1	1668_octyl_1	Tray1:3	1.000000	
13	5-201202A16	WG3443337-1	MB	1668_octyl_1	1668_octyl_1	Tray1:8	1.000000	
14	5-201202A17	L2524245-1	Sample	1668_octyl_1	1668_octyl_1	Tray1:9	1.000000	
15	5-201202A18	L2528378-1	Sample	1668_octyl_1	1668_octyl_1	Tray1:10	1.000000	
16	5-201202A19	L2528378-2	Sample	1668_octyl_1	1668_octyl_1	Tray1:11	1.000000	A1
17	5-201202A20	L2528378-3	Sample	1668_octyl_1	1668_octyl_1	Tray1:12	1.000000	
18	5-201202A21	L2528378-4	Sample	1668_octyl_1	1668_octyl_1	Tray1:13	1.000000	
19	5-201202A22	L2528378-5	Sample	1668_octyl_1	1668_octyl_1	Tray1:14	1.000000	
20	5-201202A23	L2528378-6	Sample	1668_octyl_1	1668_octyl_1	Tray1:15	1.000000	
21	5-201202A24	L2525447-1	Sample RW	1668_octyl_1	1668_octyl_1	Tray1:4	1.000000	
22	5-201202A25	L2525451-1	Sample RW	1668_octyl_1	1668_octyl_1	Tray1:5	1.000000	A2
23	5-201202A26	L2525454-1	Sample RW	1668_octyl_1	1668_octyl_1	Tray1:6	1.000000	
24	5-201202A27	H5-20-CCV-1032	1668A-CS3-020	1668_octyl_1	1668_octyl_1	Tray1:1	1.000000	
25	5-201202A28	H5-20-WDM-1033	1668A-CS7-020	1668_octyl_1	1668_octyl_1	Tray1:2	1.000000	
26	5-201202A29	TOLUENE	INST BLANK	1668_octyl_1	1668_octyl_1	Tray1:3	1.000000	
27	5-201202A30	L2528382-1	Sample	1668_octyl_1	1668_octyl_1	Tray1:16	1.000000	
28	5-201202A31	L2528382-2	Sample	1668_octyl_1	1668_octyl_1	Tray1:17	1.000000	
29	5-201202A32	L2528382-3	Sample	1668_octyl_1	1668_octyl_1	Tray1:18	1.000000	
30	5-201202A33	L2528382-4	Sample	1668_octyl_1	1668_octyl_1	Tray1:19	1.000000	
31	5-201202A34	L2528382-5	Sample	1668_octyl_1	1668_octyl_1	Tray1:20	1.000000	A3
32	5-201202A35	L2528384-1	Sample	1668_octyl_1	1668_octyl_1	Tray1:21	1.000000	
33	5-201202A36	L2528384-2	Sample	1668_octyl_1	1668_octyl_1	Tray1:22	1.000000	
34	5-201202A37	L2528384-3	Sample	1668_octyl_1	1668_octyl_1	Tray1:23	1.000000	
35	5-201202A38	L2528384-4	Sample	1668_octyl_1	1668_octyl_1	Tray1:24	1.000000	
36	5-201202A39	L2528384-5	Sample	1668_octyl_1	1668_octyl_1	Tray1:25	1.000000	
37	5-201202A40	L2528384-6	Sample	1668_octyl_1	1668_octyl_1	Tray1:26	1.000000	
38	5-201202A41	H5-20-CCV-1034	1668A-CS3-020	1668_octyl_1	1668_octyl_1	Tray1:1	1.000000	
39	---	Op	SJ	---	---	---	0.000000	
40	---	Det	350	---	---	---	0.000000	
41	---	Column	SPBOCTYL	256001-01	---	---	0.000000	

VP ✓
MR ✓
window ✓
chro ✓
Toluene 209 ?
IS

LM Fnl S14, S16, S36
S18. S19

CS0 ✓
RS ✓

QC S14 most ES < 30% failed 1668A
NS ✓

A1 MB ✓
Rec 19L slightly low for few sample
CS5 ✓

A2 ✓

A3 Rec ✓
CS5 ✓

	File Name	Sample ID	File Text	Sample Type	Na Conc A	Na Conc B	Na Conc C	Na Conc D	Na Conc E	Na Conc F	Na Conc G	Na Conc H	FS Conc	CS Conc	ES Conc 1	ES Conc 2	IS Conc	Sample Size	Quan Meth	Quan Ref
1	5-201202A04	H5-20-CS0-1035	1668A-CS0-020	QC	0.2	0.2	0.2	0.4	---	---	---	---	100	100	100	200	100	1.000	---	---
2	5-201202A03	H5-20-CS1-1035	1668A-CS1-020	Standard	1	1	1	2	---	---	---	---	100	100	100	200	100	1.000	---	---
3	5-201202A02	H5-20-CS2-1035	1668A-CS2-020	Standard	5	5	5	10	---	---	---	---	100	100	100	200	100	1.000	---	---
4	5-201202A01	H5-20-CS3-1035	1668A-CS3-020	Standard	50	50	50	100	---	---	---	---	100	100	100	200	100	1.000	---	---
5	5-201202A07	H5-20-CS4-1035	1668A-CS4-020	Standard	400	400	400	800	---	---	---	---	100	100	100	200	100	1.000	---	---
6	5-201202A08	H5-20-CS5-1035	1668A-CS5-020	Standard	2000	2000	2000	4000	---	---	---	---	100	100	100	200	100	1.000	---	---
7	5-201202A09	H5-20-RS1-1035	1668A-RS1-020	QC	50	50	50	100	---	---	---	---	100	100	100	200	100	1.000	---	---
8	5-201202A10	H5-20-RS2-1035	1668A-RS2-020	QC	---	---	---	---	---	---	---	---	100	100	100	200	100	1.000	---	---
9	5-201202A12	H5-20-WDM-1036	1668A-CS7-020	QC	50	50	50	100	150	200	250	300	100	100	100	200	100	1.000	---	---

Quantify Sample Summary Report **MassLynx MassLynx V4.1 SCN 901**

Dataset: C:\MassLynx\PCB.PRO\Results\Local\2020-ARCHIVE\2020-December\5-201202A-ICAL.qld

Last Altered: Wednesday, December 02, 2020 16:02:34 Eastern Standard Time
Printed: Wednesday, April 28, 2021 10:50:51 Eastern Daylight Time

Method: C:\MassLynx\PCB.PRO\MethDB\1668-OCTYL-1-ICAL-201030B.mdb 07 Feb 2020 11:57:21
Calibration: C:\MassLynx\PCB.PRO\CurveDB\5-201202A-ICAL.cdb 02 Dec 2020 15:02:34

Name: 5-201202A03, Date: 02-Dec-2020, Time: 11:14:48, ID: H5-20-CS1-1035, Description: 1668A-CS1-020, Vial: Tray1:5

	Target Analyte	#Hom	Total Area	Ion1 Area	Ion2 Area	Ra	Ra Fail=Y...	RT	RRT	RT LCL	RT UCL	Conc.	%Rec	Mod.Comment	Noise 1	Noise 2
1	PCB-1		22943	17572	5371	3.27	NO	8.95	1.00	8.92	8.99	0.94502	94.5		1046	742
2	PCB-3		22071	16965	5106	3.32	NO	10.48	1.00	10.45	10.51	0.95609	95.6		1046	742
3	PCB-4		11506	7258	4248	1.71	NO	10.63	1.00	10.60	10.67	0.94580	94.6	SJ201202MB	3420	28338
4	PCB-15		15550	9339	6210	1.50	NO	14.32	1.00	14.28	14.35	0.89029	89.0		1634	5068
5	PCB-19		10358	5337	5021	1.06	NO	12.62	1.00	12.59	12.66	0.90320	90.3		3634	2953
6	PCB-37		11419	6095	5324	1.14	NO	18.24	1.00	18.21	18.27	0.93543	93.5	SJ201202MS	4587	3608
7	PCB-54		12846	5758	7088	0.81	NO	14.46	1.00	14.43	14.50	0.93835	93.8		477	795
8	PCB-81		8505	3851	4654	0.83	NO	21.81	1.00	21.77	21.84	0.89044	89.0	SJ201202MB	811	914
9	PCB-77		8169	3383	4787	0.71	NO	22.11	1.00	22.08	22.15	0.87138	87.1	SJ201202MB	811	914
10	PCB-104		10377	6206	4171	1.49	NO	17.50	1.00	17.47	17.54	0.91295	91.3		470	861
11	PCB-123		6784	4344	2440	1.78	NO	23.08	1.00	23.05	23.11	0.88869	88.9	SJ201202MB	782	1098
12	PCB-118		7794	4627	3167	1.46	NO	23.25	1.00	23.22	23.28	0.91777	91.8		782	1098
13	PCB-114		7666	4591	3075	1.49	NO	23.55	1.00	23.52	23.58	0.95632	95.6		782	1098
14	PCB-105		7125	4306	2819	1.53	NO	23.91	1.00	23.88	23.95	0.90365	90.4	SJ201202MB	782	1098
15	PCB-126		6194	3844	2350	1.64	NO	25.51	1.00	25.48	25.54	0.87311	87.3		782	1098
16	PCB-155		9294	5147	4147	1.24	NO	20.48	1.00	20.45	20.52	0.95120	95.1		433	406
17	PCB-167		6068	3310	2758	1.20	NO	26.38	1.00	26.35	26.41	0.89220	89.2		581	469
18	PCB-156/157		12016	6481	5535	1.17	NO	27.02	1.00	26.99	27.05	1.81796	90.9		581	469
19	PCB-169		5260	2854	2407	1.19	NO	28.69	1.00	28.65	28.72	0.83850	83.8		581	469
20	PCB-188		5936	2989	2948	1.01	NO	23.48	1.00	23.44	23.51	0.88007	88.0		1147	623
21	PCB-189		5379	2850	2529	1.13	NO	29.95	1.00	29.91	29.98	0.91654	91.7		1117	766
22	PCB-202		5603	2583	3020	0.86	NO	26.26	1.00	26.22	26.29	0.94696	94.7		367	506
23	PCB-205		4371	2025	2346	0.86	NO	31.33	1.00	31.29	31.36	0.95609	95.6		285	374
24	PCB-208		4645	2159	2486	0.87	NO	29.67	1.00	29.63	29.70	0.95790	95.8	SJ201202MB	469	560
25	PCB-206		3294	1359	1936	0.70	NO	32.37	1.00	32.34	32.41	0.96926	96.9		469	560
26	PCB-209		5322	2913	2409	1.21	NO	33.50	1.00	33.46	33.53	1.15503	115.5		454	374
27	13C-PCB-31		1370043	700448	669595	1.05	NO	15.81	0.87	15.78	15.84	104.68744	104.7		25593	12182
28	13C-PCB-95		526202	324647	201555	1.61	NO	19.10	1.09	19.06	19.13	107.79906	107.8		2145	1396
29	13C-PCB-153		613797	347840	265957	1.31	NO	24.16	1.18	24.12	24.19	106.62198	106.6		1846	2545
30	13C-PCB-28		1450835	745835	705000	1.06	NO	15.98	0.94	15.94	16.01	98.38322	98.4		25593	12182
31	13C-PCB-111		615205	380026	235179	1.62	NO	22.00	1.07	21.97	22.04	98.58609	98.6		2145	1396
32	13C-PCB-178		429853	218744	211109	1.04	NO	25.04	1.01	25.00	25.07	99.64373	99.6		891	990
33	13C-PCB-1		2122818	1592908	529911	3.01	NO	8.95	0.75	8.92	8.99	91.26396	91.3		2708	8582
34	13C-PCB-3		1930746	1454432	476314	3.05	NO	10.47	0.88	10.43	10.50	93.37930	93.4		2708	8582

Quantify Sample Summary Report **MassLynx MassLynx V4.1 SCN 901**

Dataset: C:\MassLynx\PCB.PRO\Results\Local\2020-ARCHIVE\2020-December\5-201202A-ICAL.qld

Last Altered: Wednesday, December 02, 2020 16:02:34 Eastern Standard Time
Printed: Wednesday, April 28, 2021 10:50:51 Eastern Daylight Time

Name: 5-201202A03, Date: 02-Dec-2020, Time: 11:14:48, ID: H5-20-CS1-1035, Description: 1668A-CS1-020, Vial: Tray1:5

	Target Analyte	#Hom	Total Area	Ion1 Area	Ion2 Area	Ra	Ra Fail=Y...	RT	RRT	RT LCL	RT UCL	Conc.	%Rec	Mod.Comment	Noise 1	Noise 2
35	13C-PCB-4		1366014	838348	527666	1.59	NO	10.62	0.89	10.59	10.65	93.85965	93.9		4508	2763
36	13C-PCB-15		1592072	987148	604925	1.63	NO	14.30	1.20	14.26	14.33	87.64473	87.6		9233	4170
37	13C-PCB-19		986050	500683	485366	1.03	NO	12.61	1.06	12.58	12.64	90.62922	90.6		37212	43295
38	13C-PCB-37		1096006	564320	531685	1.06	NO	18.24	1.08	18.21	18.27	90.37281	90.4		25593	12182
39	13C-PCB-54		1281924	560598	721326	0.78	NO	14.45	0.85	14.42	14.49	89.84960	89.8		7136	5029
40	13C-PCB-81		788127	350499	437628	0.80	NO	21.80	1.06	21.76	21.83	92.76278	92.8		7699	3302
41	13C-PCB-77		807193	360577	446616	0.81	NO	22.10	1.07	22.07	22.14	93.39687	93.4		7699	3302
42	13C-PCB-104		985790	601586	384204	1.57	NO	17.49	1.03	17.46	17.53	92.49401	92.5		1616	1906
43	13C-PCB-123		692882	424736	268146	1.58	NO	23.07	1.12	23.03	23.10	93.11807	93.1		3001	2354
44	13C-PCB-118		725277	451335	273942	1.65	NO	23.24	1.13	23.20	23.27	92.85225	92.9		3001	2354
45	13C-PCB-114		651853	408104	243749	1.67	NO	23.54	0.95	23.51	23.57	91.54094	91.5		3001	2354
46	13C-PCB-105		654175	408431	245744	1.66	NO	23.90	0.96	23.87	23.93	92.83443	92.8		3001	2354
47	13C-PCB-126		585461	364284	221177	1.65	NO	25.50	1.03	25.46	25.53	91.58498	91.6		3001	2354
48	13C-PCB-155		923888	511951	411936	1.24	NO	20.48	0.99	20.44	20.51	91.25272	91.3		1058	1101
49	13C-PCB-167		616289	347246	269044	1.29	NO	26.37	1.06	26.33	26.40	94.25545	94.3		1846	2545
50	13C-PCB-156/157		1157700	655427	502273	1.30	NO	27.01	1.09	26.97	27.04	183.59593	91.8		1846	2545
51	13C-PCB-169		574726	325238	249488	1.30	NO	28.67	1.15	28.64	28.71	97.01853	97.0		1846	2545
52	13C-PCB-188		715019	364479	350539	1.04	NO	23.47	0.94	23.43	23.50	93.16554	93.2		891	990
53	13C-PCB-189		581537	300375	281162	1.07	NO	29.92	0.96	29.88	29.95	97.03344	97.0		1160	1616
54	13C-PCB-202		549068	258560	290508	0.89	NO	26.23	1.06	26.20	26.27	92.56867	92.6		899	780
55	13C-PCB-205		499310	234507	264804	0.89	NO	31.30	1.01	31.27	31.33	95.17697	95.2		851	991
56	13C-PCB-208		397032	175038	221994	0.79	NO	29.65	0.96	29.62	29.69	94.90022	94.9		661	563
57	13C-PCB-206		280734	125342	155392	0.81	NO	32.36	1.04	32.33	32.39	95.78748	95.8		661	563
58	13C-PCB-209		455200	248902	206298	1.21	NO	33.48	1.08	33.45	33.52	97.34691	97.3		252	172
59	13C-PCB-9		2163196	1316583	846612	1.56	NO	11.88	0.48	11.85	11.92	108.09882	108.1		4508	2763
60	13C-PCB-52		836277	377607	458669	0.82	NO	16.97	0.68	16.93	17.00	105.78103	105.8		7551	4376
61	13C-PCB-101		548507	340454	208053	1.64	NO	20.61	0.83	20.58	20.65	104.50346	104.5		2145	1396
62	13C-PCB-138		515860	293267	222592	1.32	NO	24.84	0.00	24.81	24.88	103.21601	103.2		1846	2545
63	13C-PCB-194		352402	165625	186777	0.89	NO	31.02	1.25	30.99	31.05	105.37611	105.4		851	991
64	Total MoCB-F1	2		34538								1.90110			1046	
65	Total DiCB-F1	1		7258								0.94580			3420	
66	Total DiCB-F2	1		9339								0.89029			1634	
67	Total TrCB-F1	1		5337								0.90320			1594	
68	Total TrCB-F3	3		20604								24794.93366			1507	
69	Total TeCB-F2	1		5758								0.93835			477	
70	Total TeCB-F4	2		7234								1.76182			811	
71	Total PeCB-F3	1		6206								0.91295			470	

Quantify Sample Summary Report **MassLynx MassLynx V4.1 SCN 901**

Dataset: C:\MassLynx\PCB.PRO\Results\Local\2020-ARCHIVE\2020-December\5-201202A-ICAL.qld

Last Altered: Wednesday, December 02, 2020 16:02:34 Eastern Standard Time
Printed: Wednesday, April 28, 2021 10:50:51 Eastern Daylight Time

Name: 5-201202A03, Date: 02-Dec-2020, Time: 11:14:48, ID: H5-20-CS1-1035, Description: 1668A-CS1-020, Vial: Tray1:5

	Target Analyte	#Hom	Total Area	Ion1 Area	Ion2 Area	Ra	Ra Fail=Y...	RT	RRT	RT LCL	RT UCL	Conc.	%Rec	Mod.Comment	Noise 1	Noise 2
72	Total PeCB-F5	5		21712								4.53955			782	
73	Total HxCB-F4	1		5147								0.95120			433	
74	Total HxCB-F5	3		12644								3.54866			581	
75	Total HpCB-F5	5		11072								17155.93828			552	
76	Total HpCB-F6	1		2850								0.91654			489	
77	Total OcCB-F5	1		2583								0.94696			367	
78	Total OcCB-F6	1		2025								0.95609			285	
79	Total NoCB-F6	2		3517								1.92716			469	
80	Total DeCB-F7	1		2913								1.15503			454	
81	Total 13C-MoCB-F1	2		3047340								184.64326			2708	
82	Total 13C-DiCB-F1	3		2157736								202.46599			4508	
83	Total 13C-DiCB-F2	4		1983612								1901140.073...			9233	
84	Total 13C-TrCB-F1	1		500683								90.62922			37212	
85	Total 13C-TrCB-F3	4		2013652								5062.87141			25593	
86	Total 13C-TeCB-F2	1		560598								89.84960			7136	
87	Total 13C-TeCB-F3	4		388230								108.76651			7551	
88	Total 13C-TeCB-F4	8		728951								24600.16277			7699	
89	Total 13C-PeCB-F3	4		603667								1808.85020			1616	
90	Total 13C-PeCB-F4	6		1048527								313.92461			2145	
91	Total 13C-PeCB-F5	14		2096010								48815.84235			3001	
92	Total 13C-HxCB-F4	2		514541								2750.77005			1058	
93	Total 13C-HxCB-F5	14		1990152								621.58448			1846	
94	Total 13C-HpCB-F5	6		591307								14515.46511			891	
95	Total 13C-HpCB-F6	5		319689								30291.02415			1160	
96	Total 13C-OcCB-F5	2		259023								1166.03060			899	
97	Total 13C-OcCB-F6	4		412523								215.00101			851	
98	Total 13C-NoCB-F6	2		300381								190.68771			661	
99	Total 13C-DeCB-F7	1		248902								97.34691			252	
100	Lockmass F1			0											540321	
101	Lockmass F2			0											529974	
102	Lockmass F3			0											787952	
103	Lockmass F4			0											439348	
104	Lockmass F5			0											179854	
105	Lockmass F6			0											143183	
106	Lockmass F7			0											31149	

Quantify Sample Summary Report **MassLynx MassLynx V4.1 SCN 901**

Dataset: C:\MassLynx\PCB.PRO\Results\Local\2020-ARCHIVE\2020-December\5-201202A-ICAL.qld

Last Altered: Wednesday, December 02, 2020 16:02:34 Eastern Standard Time
Printed: Wednesday, April 28, 2021 10:50:51 Eastern Daylight Time

Name: 5-201202A02, Date: 02-Dec-2020, Time: 10:34:22, ID: H5-20-CS2-1035, Description: 1668A-CS2-020, Vial: Tray1:4

	Target Analyte	#Hom	Total Area	Ion1 Area	Ion2 Area	Ra	Ra Fail=Y...	RT	RRT	RT LCL	RT UCL	Conc.	%Rec	Mod.Comment	Noise 1	Noise 2
1	PCB-1		113908	86991	26918	3.23	NO	8.97	1.00	8.93	9.00	4.88616	97.7		1069	861
2	PCB-3		103388	79446	23942	3.32	NO	10.49	1.00	10.46	10.53	4.80329	96.1		1069	861
3	PCB-4		57847	32246	25601	1.26	YES	10.65	1.00	10.62	10.68	5.07921	101.6		2379	21859
4	PCB-15		83006	50873	32133	1.58	NO	14.32	1.00	14.29	14.36	4.77813	95.6		1805	7870
5	PCB-19		55328	28529	26799	1.06	NO	12.64	1.00	12.61	12.67	4.94085	98.8		3739	2817
6	PCB-37		54846	28528	26318	1.08	NO	18.27	1.00	18.23	18.30	4.65317	93.1		4704	4102
7	PCB-54		67645	30006	37639	0.80	NO	14.49	1.00	14.46	14.52	4.82766	96.6		856	950
8	PCB-81		44216	19681	24535	0.80	NO	21.83	1.00	21.79	21.86	4.66988	93.4	SJ201202MB	960	932
9	PCB-77		42316	18717	23599	0.79	NO	22.13	1.00	22.10	22.16	4.58784	91.8	SJ201202MB	960	932
10	PCB-104		55022	33920	21101	1.61	NO	17.52	1.00	17.49	17.56	4.81101	96.2		423	1233
11	PCB-123		35941	22345	13595	1.64	NO	23.10	1.00	23.07	23.14	4.78705	95.7		949	1488
12	PCB-118		38944	24432	14512	1.68	NO	23.27	1.00	23.24	23.31	4.63061	92.6		949	1488
13	PCB-114		38130	23370	14760	1.58	NO	23.58	1.00	23.54	23.61	4.76975	95.4		949	1488
14	PCB-105		37766	23435	14330	1.64	NO	23.93	1.00	23.89	23.96	4.77355	95.5		949	1488
15	PCB-126		32857	20367	12490	1.63	NO	25.52	1.00	25.49	25.55	4.59861	92.0		949	1488
16	PCB-155		47483	26112	21371	1.22	NO	20.50	1.00	20.47	20.54	4.75732	95.1		382	342
17	PCB-167		32728	17788	14940	1.19	NO	26.40	1.00	26.37	26.44	4.78726	95.7		895	472
18	PCB-156/157		63228	34328	28900	1.19	NO	27.03	1.00	27.00	27.06	9.49305	94.9		895	472
19	PCB-169		29771	16086	13685	1.18	NO	28.70	1.00	28.67	28.73	4.82852	96.6		895	472
20	PCB-188		31402	15997	15405	1.04	NO	23.50	1.00	23.47	23.54	4.63040	92.6		1252	956
21	PCB-189		28322	14145	14177	1.00	NO	29.96	1.00	29.93	29.99	4.74349	94.9		1451	1063
22	PCB-202		29128	13349	15779	0.85	NO	26.27	1.00	26.24	26.30	4.87303	97.5		415	530
23	PCB-205		21553	10395	11158	0.93	NO	31.34	1.00	31.31	31.37	4.60569	92.1		268	322
24	PCB-208		23090	10175	12914	0.79	NO	29.68	1.00	29.65	29.71	4.72635	94.5		488	710
25	PCB-206		16782	7563	9219	0.82	NO	32.40	1.00	32.37	32.43	4.85088	97.0		488	710
26	PCB-209		22201	12023	10179	1.18	NO	33.53	1.00	33.49	33.56	4.82234	96.4		460	380
27	13C-PCB-31		1379846	712831	667015	1.07	NO	15.83	0.87	15.80	15.86	108.61931	108.6		30604	10141
28	13C-PCB-95		526225	325516	200709	1.62	NO	19.13	1.09	19.09	19.16	108.30614	108.3		2423	1977
29	13C-PCB-153		620077	349519	270559	1.29	NO	24.18	1.18	24.15	24.21	107.01314	107.0		3074	1835
30	13C-PCB-28		1449204	740127	709077	1.04	NO	16.00	0.94	15.96	16.03	100.06717	100.1		30604	10141
31	13C-PCB-111		622046	387174	234872	1.65	NO	22.02	1.07	21.99	22.05	100.05019	100.1		2423	1977
32	13C-PCB-178		443818	226535	217283	1.04	NO	25.06	1.01	25.03	25.09	100.51488	100.5		1417	1548
33	13C-PCB-1		2038387	1530528	507859	3.01	NO	8.97	0.75	8.93	9.00	93.64477	93.6		2092	6623
34	13C-PCB-3		1800219	1357892	442327	3.07	NO	10.49	0.88	10.46	10.53	93.03814	93.0		2092	6623
35	13C-PCB-4		1278864	782136	496729	1.57	NO	10.63	0.89	10.60	10.67	93.89851	93.9		3753	2103
36	13C-PCB-15		1583510	977495	606015	1.61	NO	14.32	1.20	14.28	14.35	93.15245	93.2		8858	3584
37	13C-PCB-19		962797	491468	471330	1.04	NO	12.62	1.06	12.59	12.66	94.56155	94.6		34135	37388

Name: 5-201202A02, Date: 02-Dec-2020, Time: 10:34:22, ID: H5-20-CS2-1035, Description: 1668A-CS2-020, Vial: Tray1:4

	Target Analyte	#Hom	Total Area	Ion1 Area	Ion2 Area	Ra	Ra Fail=Y...	RT	RRT	RT LCL	RT UCL	Conc.	%Rec	Mod.Comment	Noise 1	Noise 2
38	13C-PCB-37		1058249	543902	514348	1.06	NO	18.26	1.07	18.22	18.29	88.85302	88.9		30604	10141
39	13C-PCB-54		1312094	578786	733308	0.79	NO	14.47	0.85	14.44	14.51	93.64357	93.6		9886	4075
40	13C-PCB-81		781280	348028	433252	0.80	NO	21.82	1.06	21.78	21.85	92.29618	92.3		6800	3363
41	13C-PCB-77		794119	352075	442045	0.80	NO	22.12	1.07	22.09	22.16	92.22325	92.2		6800	3363
42	13C-PCB-104		991912	606846	385067	1.58	NO	17.51	1.03	17.48	17.55	93.41195	93.4		1225	1139
43	13C-PCB-123		681424	417096	264328	1.58	NO	23.09	1.12	23.06	23.13	91.91622	91.9		2997	2129
44	13C-PCB-118		718208	440967	277241	1.59	NO	23.26	1.13	23.23	23.29	92.28656	92.3		2997	2129
45	13C-PCB-114		650082	398263	251819	1.58	NO	23.56	0.95	23.53	23.60	91.62920	91.6		2997	2129
46	13C-PCB-105		656355	404593	251762	1.61	NO	23.91	0.96	23.88	23.95	93.48758	93.5		2997	2129
47	13C-PCB-126		589617	365882	223736	1.64	NO	25.52	1.03	25.49	25.55	92.57555	92.6		2997	2129
48	13C-PCB-155		943725	522932	420793	1.24	NO	20.49	0.99	20.46	20.53	93.55611	93.6		1515	960
49	13C-PCB-167		619489	350603	268886	1.30	NO	26.39	1.06	26.36	26.42	92.56571	92.6		3074	1835
50	13C-PCB-156/157		1166640	657506	509134	1.29	NO	27.02	1.09	26.99	27.05	180.75861	90.4		3074	1835
51	13C-PCB-169		564837	321924	242913	1.33	NO	28.69	1.15	28.65	28.72	93.15614	93.2		3074	1835
52	13C-PCB-188		718865	365074	353791	1.03	NO	23.49	0.94	23.46	23.52	91.51250	91.5		1417	1548
53	13C-PCB-189		591693	304360	287334	1.06	NO	29.95	0.96	29.91	29.98	96.45740	96.5		1750	1833
54	13C-PCB-202		554691	264562	290129	0.91	NO	26.26	1.06	26.22	26.29	91.36593	91.4		642	714
55	13C-PCB-205		511155	239623	271532	0.88	NO	31.33	1.01	31.29	31.36	96.00419	96.0		873	563
56	13C-PCB-208		400015	177217	222799	0.80	NO	29.67	0.96	29.63	29.70	94.20924	94.2		706	653
57	13C-PCB-206		285775	126913	158862	0.80	NO	32.39	1.04	32.35	32.42	96.07582	96.1		706	653
58	13C-PCB-209		454789	248895	205894	1.21	NO	33.50	1.08	33.46	33.53	95.83088	95.8		198	232
59	13C-PCB-9		2024349	1230573	793776	1.55	NO	11.90	0.48	11.86	11.93	101.16041	101.2		3753	2103
60	13C-PCB-52		821279	369779	451500	0.82	NO	16.99	0.68	16.95	17.02	103.88398	103.9		7055	4014
61	13C-PCB-101		546491	338549	207941	1.63	NO	20.64	0.83	20.61	20.68	104.11921	104.1		2423	1977
62	13C-PCB-138		528003	299207	228796	1.31	NO	24.87	0.00	24.83	24.90	105.64575	105.6		3074	1835
63	13C-PCB-194		357654	167396	190258	0.88	NO	31.05	1.25	31.01	31.08	106.94649	106.9		873	563
64	Total MoCB-F1	3		169518								3540.49347			1069	
65	Total DiCB-F1	1		32246								5.07921			2379	
66	Total DiCB-F2	1		50873								4.77813			1805	
67	Total TrCB-F1	1		28529								4.94085			1370	
68	Total TrCB-F3	4		101657								129463.73326			2018	
69	Total TeCB-F2	1		30006								4.82766			856	
70	Total TeCB-F4	2		38398								9.25772			960	
71	Total PeCB-F3	1		33920								4.81101			423	
72	Total PeCB-F5	7		114926								1694.24233			949	
73	Total HxCB-F4	1		26112								4.75732			382	
74	Total HxCB-F5	8		71362								5450.33210			895	

Quantify Sample Summary Report **MassLynx MassLynx V4.1 SCN 901**

Dataset: C:\MassLynx\PCB.PRO\Results\Local\2020-ARCHIVE\2020-December\5-201202A-ICAL.qld

Last Altered: Wednesday, December 02, 2020 16:02:34 Eastern Standard Time
Printed: Wednesday, April 28, 2021 10:50:51 Eastern Daylight Time

Name: 5-201202A02, Date: 02-Dec-2020, Time: 10:34:22, ID: H5-20-CS2-1035, Description: 1668A-CS2-020, Vial: Tray1:4

	Target Analyte	#Hom	Total Area	Ion1 Area	Ion2 Area	Ra	Ra Fail=Y...	RT	RRT	RT LCL	RT UCL	Conc.	%Rec	Mod.Comment	Noise 1	Noise 2
75	Total HpCB-F5	6		58110								88145.90305			476	
76	Total HpCB-F6	2		14745								1081.44330			563	
77	Total OcCB-F5	1		13349								4.87303			415	
78	Total OcCB-F6	3		11259								2066.25612			268	
79	Total NoCB-F6	2		17738								9.57723			488	
80	Total DeCB-F7	1		12023								4.82234			460	
81	Total 13C-MoCB-F1	2		2888419								186.68291			2092	
82	Total 13C-DiCB-F1	4		2016465								195.61476			3753	
83	Total 13C-DiCB-F2	3		1953392								1881050.707...			8858	
84	Total 13C-TrCB-F1	2		492019								2274.54095			34135	
85	Total 13C-TrCB-F3	3		1996860								297.53950			30604	
86	Total 13C-TeCB-F2	1		578786								93.64357			9886	
87	Total 13C-TeCB-F3	3		378703								106.47441			7055	
88	Total 13C-TeCB-F4	5		713595								17633.61149			6800	
89	Total 13C-PeCB-F3	2		607059								315.64856			1225	
90	Total 13C-PeCB-F4	10		1056308								317.60447			2423	
91	Total 13C-PeCB-F5	12		2063156								45319.13111			2997	
92	Total 13C-HxCB-F4	2		525505								2493.52844			1515	
93	Total 13C-HxCB-F5	11		1996728								610.36680			3074	
94	Total 13C-HpCB-F5	6		600016								14254.25787			1417	
95	Total 13C-HpCB-F6	5		323508								31042.09197			1750	
96	Total 13C-OcCB-F5	3		265333								1508.84463			642	
97	Total 13C-OcCB-F6	4		418157								216.45999			873	
98	Total 13C-NoCB-F6	3		304431								794.63351			706	
99	Total 13C-DeCB-F7	1		248895								95.83088			198	
100	Lockmass F1			0											588087	
101	Lockmass F2			0											347286	
102	Lockmass F3			0											658556	
103	Lockmass F4			0											550784	
104	Lockmass F5			0											139360	
105	Lockmass F6			0											166335	
106	Lockmass F7			0											34743	

Quantify Sample Summary Report **MassLynx MassLynx V4.1 SCN 901**

Dataset: C:\MassLynx\PCB.PRO\Results\Local\2020-ARCHIVE\2020-December\5-201202A-ICAL.qld

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Printed: Wednesday, April 28, 2021 10:50:51 Eastern Daylight Time

Name: 5-201202A01, Date: 02-Dec-2020, Time: 09:37:44, ID: H5-20-CS3-1035, Description: 1668A-CS3-020, Vial: Tray1:1

	Target Analyte	#Hom	Total Area	Ion1 Area	Ion2 Area	Ra	Ra Fail=Y...	RT	RRT	RT LCL	RT UCL	Conc.	%Rec	Mod.Comment	Noise 1	Noise 2
1	PCB-1		1184753	904981	279772	3.23	NO	8.97	1.00	8.93	9.00	52.11743	104.2		1473	1073
2	PCB-3		1075332	822364	252968	3.25	NO	10.49	1.00	10.46	10.53	50.24101	100.5		1473	1073
3	PCB-4		575637	341872	233765	1.46	NO	10.65	1.00	10.62	10.68	50.13987	100.3		2429	16194
4	PCB-15		866461	526119	340341	1.55	NO	14.32	1.00	14.29	14.36	50.48266	101.0		1999	7600
5	PCB-19		582677	299264	283413	1.06	NO	12.64	1.00	12.61	12.67	51.44083	102.9		2941	2729
6	PCB-37		588339	302397	285942	1.06	NO	18.26	1.00	18.22	18.29	51.14393	102.3		6561	5625
7	PCB-54		699809	309891	389918	0.79	NO	14.48	1.00	14.45	14.51	50.81872	101.6		695	922
8	PCB-81		464242	204500	259742	0.79	NO	21.83	1.00	21.79	21.86	52.07293	104.1		593	1294
9	PCB-77		459213	201890	257322	0.78	NO	22.13	1.00	22.10	22.16	52.92481	105.8		593	1294
10	PCB-104		574686	350331	224355	1.56	NO	17.52	1.00	17.49	17.56	50.99681	102.0		577	1253
11	PCB-123		370261	226175	144086	1.57	NO	23.10	1.00	23.07	23.14	51.97570	104.0		1168	1650
12	PCB-118		412135	254102	158033	1.61	NO	23.27	1.00	23.24	23.31	51.56225	103.1		1168	1650
13	PCB-114		386057	237998	148059	1.61	NO	23.58	1.00	23.54	23.61	50.98588	102.0		1168	1650
14	PCB-105		384801	237512	147289	1.61	NO	23.93	1.00	23.89	23.96	50.99621	102.0		1168	1650
15	PCB-126		341654	208699	132955	1.57	NO	25.52	1.00	25.49	25.55	51.92216	103.8		1168	1650
16	PCB-155		475585	263800	211785	1.25	NO	20.50	1.00	20.47	20.54	49.96343	99.9		639	596
17	PCB-167		331148	183032	148116	1.24	NO	26.40	1.00	26.37	26.44	51.97220	103.9		952	908
18	PCB-156/157		646380	355815	290565	1.22	NO	27.03	1.00	27.00	27.06	103.28553	103.3		952	908
19	PCB-169		295684	163808	131876	1.24	NO	28.70	1.00	28.67	28.73	52.44200	104.9		952	908
20	PCB-188		336931	170397	166534	1.02	NO	23.50	1.00	23.47	23.54	52.12983	104.3		1896	2047
21	PCB-189		269911	137081	132830	1.03	NO	29.95	1.00	29.91	29.98	51.15368	102.3		1419	1685
22	PCB-202		290334	137703	152631	0.90	NO	26.27	1.00	26.24	26.30	50.01828	100.0		566	550
23	PCB-205		211366	101075	110291	0.92	NO	31.34	1.00	31.31	31.37	51.28891	102.6		348	500
24	PCB-208		225103	100839	124264	0.81	NO	29.68	1.00	29.65	29.71	51.20575	102.4		465	764
25	PCB-206		152325	67468	84857	0.80	NO	32.40	1.00	32.37	32.43	50.06947	100.1		465	764
26	PCB-209		194335	106394	87941	1.21	NO	33.53	1.00	33.49	33.56	47.82309	95.6		495	478
27	13C-PCB-31		1321872	685189	636683	1.08	NO	15.83	0.87	15.80	15.86	104.79879	104.8		22760	11423
28	13C-PCB-95		493550	304106	189444	1.61	NO	19.13	1.09	19.09	19.16	105.72978	105.7		1884	2071
29	13C-PCB-153		578936	327598	251338	1.30	NO	24.18	1.18	24.15	24.21	106.57012	106.6		2626	2223
30	13C-PCB-28		1383433	707892	675541	1.05	NO	16.00	0.94	15.96	16.03	97.01282	97.0		22760	11423
31	13C-PCB-111		585468	363519	221949	1.64	NO	22.02	1.07	21.99	22.05	100.22932	100.2		1884	2071
32	13C-PCB-178		413588	209616	203972	1.03	NO	25.06	1.01	25.03	25.09	100.85460	100.9		1149	990
33	13C-PCB-1		1987669	1497812	489857	3.06	NO	8.95	0.75	8.92	8.99	91.08913	91.1		2522	7630
34	13C-PCB-3		1790109	1343541	446569	3.01	NO	10.48	0.88	10.45	10.51	92.28708	92.3		2522	7630
35	13C-PCB-4		1289151	787593	501558	1.57	NO	10.63	0.89	10.60	10.67	94.41991	94.4		3168	2183
36	13C-PCB-15		1564492	975109	589384	1.65	NO	14.32	1.20	14.28	14.35	91.80630	91.8		6295	3590
37	13C-PCB-19		973895	500636	473259	1.06	NO	12.62	1.06	12.59	12.66	95.41516	95.4		36836	31238

Quantify Sample Summary Report **MassLynx MassLynx V4.1 SCN 901**

Dataset: C:\MassLynx\PCB.PRO\Results\Local\2020-ARCHIVE\2020-December\5-201202A-ICAL.qld

Last Altered: Wednesday, December 02, 2020 16:02:34 Eastern Standard Time
Printed: Wednesday, April 28, 2021 10:50:51 Eastern Daylight Time

Name: 5-201202A01, Date: 02-Dec-2020, Time: 09:37:44, ID: H5-20-CS3-1035, Description: 1668A-CS3-020, Vial: Tray1:1

	Target Analyte	#Hom	Total Area	Ion1 Area	Ion2 Area	Ra	Ra Fail=Y...	RT	RRT	RT LCL	RT UCL	Conc.	%Rec	Mod.Comment	Noise 1	Noise 2
38	13C-PCB-37		1032821	537888	494933	1.09	NO	18.25	1.07	18.22	18.28	88.06802	88.1		22760	11423
39	13C-PCB-54		1289507	571533	717973	0.80	NO	14.47	0.85	14.44	14.51	93.46426	93.5		7503	4308
40	13C-PCB-81		735643	333620	402023	0.83	NO	21.82	1.06	21.78	21.85	92.49978	92.5		6354	4547
41	13C-PCB-77		747046	331825	415221	0.80	NO	22.12	1.07	22.09	22.16	92.34176	92.3		6354	4547
42	13C-PCB-104		977381	594128	383253	1.55	NO	17.51	1.03	17.48	17.55	97.96918	98.0		1135	928
43	13C-PCB-123		646560	402607	243953	1.65	NO	23.09	1.12	23.06	23.13	92.82817	92.8		2291	3651
44	13C-PCB-118		682591	423265	259326	1.63	NO	23.26	1.13	23.23	23.29	93.35672	93.4		2291	3651
45	13C-PCB-114		615747	383736	232011	1.65	NO	23.56	0.95	23.53	23.60	92.37707	92.4		2291	3651
46	13C-PCB-105		626013	389266	236747	1.64	NO	23.91	0.96	23.88	23.95	94.90626	94.9		2291	3651
47	13C-PCB-126		543006	333319	209687	1.59	NO	25.51	1.03	25.48	25.54	90.74594	90.7		2291	3651
48	13C-PCB-155		900015	498843	401171	1.24	NO	20.49	0.99	20.46	20.53	94.96695	95.0		884	922
49	13C-PCB-167		577363	326975	250388	1.31	NO	26.39	1.06	26.36	26.42	92.88987	92.9		2626	2223
50	13C-PCB-156/157		1096179	621985	474194	1.31	NO	27.02	1.09	26.99	27.05	182.87153	91.4		2626	2223
51	13C-PCB-169		516532	292438	224094	1.30	NO	28.69	1.15	28.65	28.72	91.72512	91.7		2626	2223
52	13C-PCB-188		685112	347398	337713	1.03	NO	23.49	0.94	23.46	23.52	93.90674	93.9		1149	990
53	13C-PCB-189		522889	270225	252664	1.07	NO	29.95	0.96	29.91	29.98	91.78069	91.8		1170	981
54	13C-PCB-202		538651	255136	283516	0.90	NO	26.26	1.06	26.22	26.29	95.53077	95.5		657	700
55	13C-PCB-205		450136	210774	239361	0.88	NO	31.33	1.01	31.29	31.36	95.42792	95.4		720	590
56	13C-PCB-208		359954	160416	199538	0.80	NO	29.67	0.96	29.63	29.70	95.68815	95.7		693	630
57	13C-PCB-206		251305	109964	141342	0.78	NO	32.39	1.04	32.35	32.42	95.36443	95.4		693	630
58	13C-PCB-209		401423	219355	182067	1.20	NO	33.50	1.08	33.46	33.53	95.47556	95.5		209	199
59	13C-PCB-9		2029363	1233299	796065	1.55	NO	11.90	0.48	11.86	11.93	101.41098	101.4		3168	2183
60	13C-PCB-52		808689	364795	443895	0.82	NO	16.99	0.68	16.95	17.02	102.29151	102.3		6275	3704
61	13C-PCB-101		513436	319092	194344	1.64	NO	20.64	0.83	20.61	20.68	97.82152	97.8		1884	2071
62	13C-PCB-138		490381	275916	214465	1.29	NO	24.87	0.00	24.83	24.90	98.11820	98.1		2626	2223
63	13C-PCB-194		316861	146613	170248	0.86	NO	31.05	1.25	31.01	31.08	94.74838	94.7		720	590
64	Total MoCB-F1	3		1767049								44776.99032			1473	
65	Total DiCB-F1	2		359275								35698.33603			2429	
66	Total DiCB-F2	3		530155								5525.01758			1999	
67	Total TrCB-F1	1		299264								51.44083			1181	
68	Total TrCB-F3	4		1071700								1352609.381...			1895	
69	Total TeCB-F2	1		309891								50.81872			695	
70	Total TeCB-F4	6		411297								8628.25607			593	
71	Total PeCB-F3	1		350331								50.99681			577	
72	Total PeCB-F5	10		1184663								28017.85468			1168	
73	Total HxCB-F4	1		263800								49.96343			639	
74	Total HxCB-F5	14		736800								56466.23392			952	

Quantify Sample Summary Report **MassLynx MassLynx V4.1 SCN 901**

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Printed: Wednesday, April 28, 2021 10:50:51 Eastern Daylight Time

Name: 5-201202A01, Date: 02-Dec-2020, Time: 09:37:44, ID: H5-20-CS3-1035, Description: 1668A-CS3-020, Vial: Tray1:1

	Target Analyte	#Hom	Total Area	Ion1 Area	Ion2 Area	Ra	Ra Fail=Y...	RT	RRT	RT LCL	RT UCL	Conc.	%Rec	Mod.Comment	Noise 1	Noise 2
75	Total HpCB-F5	11		601649								908626.96921			784	
76	Total HpCB-F6	4		143545								11790.32172			576	
77	Total OcCB-F5	4		139004								2405.70865			566	
78	Total OcCB-F6	5		109982								20381.07196			348	
79	Total NoCB-F6	3		168551								589.01821			465	
80	Total DeCB-F7	1		106394								47.82309			495	
81	Total 13C-MoCB-F1	2		2841352								183.37621			2522	
82	Total 13C-DiCB-F1	3		2023409								196.33053			3168	
83	Total 13C-DiCB-F2	5		1921891								1826242.450...			6295	
84	Total 13C-TrCB-F1	1		500636								95.41516			36836	
85	Total 13C-TrCB-F3	3		1930969								289.87963			22760	
86	Total 13C-TeCB-F2	1		571533								93.46426			7503	
87	Total 13C-TeCB-F3	4		375035								104.94548			6275	
88	Total 13C-TeCB-F4	9		684754								27213.65091			6354	
89	Total 13C-PeCB-F3	1		594128								97.96918			1135	
90	Total 13C-PeCB-F4	7		989956								306.68360			1884	
91	Total 13C-PeCB-F5	15		1969620								47641.52630			2291	
92	Total 13C-HxCB-F4	2		501539								2441.43424			884	
93	Total 13C-HxCB-F5	11		1861095								599.37832			2626	
94	Total 13C-HpCB-F5	6		564262								12387.58764			1149	
95	Total 13C-HpCB-F6	5		286947								26289.99288			1170	
96	Total 13C-OcCB-F5	3		256158								1510.01771			657	
97	Total 13C-OcCB-F6	4		367114								202.38805			720	
98	Total 13C-NoCB-F6	2		270380								191.05258			693	
99	Total 13C-DeCB-F7	1		219355								95.47556			209	
100	Lockmass F1			0											617806	
101	Lockmass F2			0											365074	
102	Lockmass F3			0											598398	
103	Lockmass F4			0											467639	
104	Lockmass F5			0											138824	
105	Lockmass F6			0											142394	
106	Lockmass F7			0											26982	

Quantify Sample Summary Report **MassLynx MassLynx V4.1 SCN 901**

Dataset: C:\MassLynx\PCB.PRO\Results\Local\2020-ARCHIVE\2020-December\5-201202A-ICAL.qld

Last Altered: Wednesday, December 02, 2020 16:02:34 Eastern Standard Time
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Name: 5-201202A07, Date: 02-Dec-2020, Time: 12:39:10, ID: H5-20-CS4-1035, Description: 1668A-CS4-020, Vial: Tray1:7

	Target Analyte	#Hom	Total Area	Ion1 Area	Ion2 Area	Ra	Ra Fail=Y...	RT	RRT	RT LCL	RT UCL	Conc.	%Rec	Mod.Comment	Noise 1	Noise 2
1	PCB-1		10447930	7986019	2461912	3.24	NO	8.95	1.00	8.92	8.99	421.76125	105.4		3155	2022
2	PCB-3		9324057	7128651	2195406	3.25	NO	10.47	1.00	10.43	10.50	412.70647	103.2		3155	2022
3	PCB-4		4769046	2849679	1919366	1.48	NO	10.63	1.00	10.60	10.67	402.75136	100.7		3154	25361
4	PCB-15		7841275	4776133	3065142	1.56	NO	14.30	1.00	14.26	14.33	425.14463	106.3		2739	8246
5	PCB-19		4813161	2464210	2348951	1.05	NO	12.62	1.00	12.59	12.66	415.48941	103.9		3297	4291
6	PCB-37		5358542	2750676	2607866	1.05	NO	18.23	1.00	18.20	18.26	415.91155	104.0		9502	9730
7	PCB-54		5899392	2597820	3301572	0.79	NO	14.47	1.00	14.44	14.51	414.18838	103.5		1006	1559
8	PCB-81		4073172	1802608	2270564	0.79	NO	21.80	1.00	21.76	21.83	422.55704	105.6		1493	1916
9	PCB-77		4015462	1774563	2240900	0.79	NO	22.10	1.00	22.07	22.14	426.74176	106.7		1493	1916
10	PCB-104		4801956	2917289	1884668	1.55	NO	17.51	1.00	17.48	17.55	415.38872	103.8		852	1256
11	PCB-123		3157454	1926490	1230964	1.57	NO	23.08	1.00	23.05	23.11	416.60727	104.2		3630	2783
12	PCB-118		3554703	2174347	1380355	1.58	NO	23.25	1.00	23.22	23.28	422.47365	105.6		3630	2783
13	PCB-114		3322867	2029931	1292937	1.57	NO	23.55	1.00	23.52	23.58	416.66789	104.2		3630	2783
14	PCB-105		3272642	1995470	1277172	1.56	NO	23.91	1.00	23.88	23.95	416.48362	104.1		3630	2783
15	PCB-126		3014632	1849575	1165058	1.59	NO	25.50	1.00	25.46	25.53	423.56340	105.9		3630	2783
16	PCB-155		4106349	2281671	1824678	1.25	NO	20.49	1.00	20.46	20.53	411.76464	102.9		865	863
17	PCB-167		2773818	1522253	1251566	1.22	NO	26.38	1.00	26.35	26.41	421.62703	105.4		1735	2094
18	PCB-156/157		5510341	3049716	2460625	1.24	NO	27.02	1.00	26.99	27.05	840.13267	105.0		1735	2094
19	PCB-169		2462298	1356756	1105542	1.23	NO	28.67	1.00	28.64	28.71	427.68819	106.9		1735	2094
20	PCB-188		2831808	1429784	1402024	1.02	NO	23.49	1.00	23.46	23.52	428.27324	107.1		4048	4489
21	PCB-189		2253505	1145003	1108503	1.03	NO	29.95	1.00	29.91	29.98	418.41711	104.6		4716	3758
22	PCB-202		2390902	1126711	1264191	0.89	NO	26.26	1.00	26.22	26.29	413.80896	103.5		1008	724
23	PCB-205		1746561	826852	919709	0.90	NO	31.33	1.00	31.29	31.36	418.43117	104.6		960	1185
24	PCB-208		1814687	810808	1003879	0.81	NO	29.68	1.00	29.65	29.71	415.69493	103.9		918	1251
25	PCB-206		1259395	562400	696995	0.81	NO	32.40	1.00	32.37	32.43	409.81100	102.5		918	1251
26	PCB-209		1573899	855231	718669	1.19	NO	33.51	1.00	33.48	33.54	383.21115	95.8		424	501
27	13C-PCB-31		1354656	696983	657673	1.06	NO	15.81	0.87	15.78	15.84	100.11245	100.1		23580	11112
28	13C-PCB-95		493039	304174	188865	1.61	NO	19.11	1.09	19.07	19.14	100.94672	100.9		1987	2707
29	13C-PCB-153		564535	318676	245859	1.30	NO	24.17	1.18	24.13	24.20	100.02651	100.0		2628	1859
30	13C-PCB-28		1401915	716563	685352	1.05	NO	15.99	0.94	15.95	16.02	100.82355	100.8		23580	11112
31	13C-PCB-111		584534	361967	222568	1.63	NO	22.00	1.07	21.97	22.04	98.80166	98.8		1987	2707
32	13C-PCB-178		398024	200823	197201	1.02	NO	25.05	1.01	25.02	25.08	99.20523	99.2		1006	753
33	13C-PCB-1		2166022	1623438	542584	2.99	NO	8.94	0.75	8.91	8.97	99.86214	99.9		2376	11457
34	13C-PCB-3		1889553	1423364	466189	3.05	NO	10.47	0.88	10.43	10.50	98.00222	98.0		2376	11457
35	13C-PCB-4		1329636	815160	514476	1.58	NO	10.62	0.89	10.59	10.65	97.97339	98.0		4391	2204
36	13C-PCB-15		1681190	1032846	648344	1.59	NO	14.29	1.20	14.25	14.32	99.25021	99.3		7307	5504
37	13C-PCB-19		996007	507211	488796	1.04	NO	12.61	1.06	12.58	12.64	98.17105	98.2		45883	45252

Quantify Sample Summary Report **MassLynx MassLynx V4.1 SCN 901**

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Name: 5-201202A07, Date: 02-Dec-2020, Time: 12:39:10, ID: H5-20-CS4-1035, Description: 1668A-CS4-020, Vial: Tray1:7

	Target Analyte	#Hom	Total Area	Ion1 Area	Ion2 Area	Ra	Ra Fail=Y...	RT	RRT	RT LCL	RT UCL	Conc.	%Rec	Mod.Comment	Noise 1	Noise 2
38	13C-PCB-37		1156744	600055	556689	1.08	NO	18.22	1.07	18.19	18.25	101.15788	101.2		23580	11112
39	13C-PCB-54		1333758	589676	744082	0.79	NO	14.45	0.85	14.42	14.49	99.14443	99.1		6816	5828
40	13C-PCB-81		795394	357575	437819	0.82	NO	21.79	1.06	21.76	21.82	98.74570	98.7		5164	3382
41	13C-PCB-77		810145	361805	448340	0.81	NO	22.09	1.07	22.06	22.13	98.87273	98.9		5164	3382
42	13C-PCB-104		1002628	612306	390322	1.57	NO	17.49	1.03	17.46	17.53	99.22653	99.2		1201	1053
43	13C-PCB-123		687877	421801	266076	1.59	NO	23.07	1.12	23.03	23.10	97.50894	97.5		1924	1912
44	13C-PCB-118		718549	444746	273803	1.62	NO	23.24	1.13	23.20	23.27	97.02953	97.0		1924	1912
45	13C-PCB-114		648520	402566	245954	1.64	NO	23.54	0.95	23.51	23.57	96.06121	96.1		1924	1912
46	13C-PCB-105		651907	404798	247109	1.64	NO	23.90	0.96	23.87	23.93	97.57974	97.6		1924	1912
47	13C-PCB-126		587336	364752	222584	1.64	NO	25.48	1.03	25.45	25.52	96.91068	96.9		1924	1912
48	13C-PCB-155		942932	523530	419403	1.25	NO	20.48	0.99	20.44	20.51	98.23495	98.2		1335	779
49	13C-PCB-167		596138	338540	257599	1.31	NO	26.37	1.06	26.33	26.40	98.03105	98.0		2628	1859
50	13C-PCB-156/157		1148850	651055	497796	1.31	NO	27.01	1.09	26.97	27.04	195.89594	97.9		2628	1859
51	13C-PCB-169		527426	298793	228633	1.31	NO	28.67	1.15	28.64	28.71	95.73046	95.7		2628	1859
52	13C-PCB-188		700890	355298	345591	1.03	NO	23.48	0.94	23.44	23.51	98.19348	98.2		1006	753
53	13C-PCB-189		533722	274776	258946	1.06	NO	29.93	0.96	29.90	29.97	95.75338	95.8		1049	677
54	13C-PCB-202		536168	253488	282680	0.90	NO	26.25	1.06	26.21	26.28	97.19278	97.2		732	727
55	13C-PCB-205		455923	213359	242565	0.88	NO	31.31	1.01	31.28	31.35	99.55504	99.6		612	639
56	13C-PCB-208		357446	158614	198833	0.80	NO	29.67	0.96	29.63	29.70	97.87282	97.9		574	514
57	13C-PCB-206		253853	111933	141920	0.79	NO	32.37	1.04	32.34	32.41	99.22150	99.2		574	514
58	13C-PCB-209		405720	222359	183361	1.21	NO	33.50	1.08	33.46	33.53	99.39312	99.4		199	263
59	13C-PCB-9		2017178	1229035	788143	1.56	NO	11.88	0.48	11.85	11.92	100.80206	100.8		4391	2204
60	13C-PCB-52		788519	357377	431142	0.83	NO	16.97	0.68	16.93	17.00	99.74022	99.7		6385	4182
61	13C-PCB-101		520024	321313	198711	1.62	NO	20.62	0.83	20.59	20.66	99.07678	99.1		1987	2707
62	13C-PCB-138		479774	267092	212682	1.26	NO	24.86	0.00	24.82	24.89	95.99578	96.0		2628	1859
63	13C-PCB-194		307630	143195	164435	0.87	NO	31.03	1.25	31.00	31.07	91.98824	92.0		612	639
64	Total MoCB-F1	4		15449611								370302.34723			3155	
65	Total DiCB-F1	2		3027237								337262.75178			3154	
66	Total DiCB-F2	4		4789498								18898.56151			2739	
67	Total TrCB-F1	1		2464210								415.48941			1167	
68	Total TrCB-F3	5		9616647								12005326.63...			3298	
69	Total TeCB-F2	1		2597820								414.18838			1006	
70	Total TeCB-F4	8		3616193								74587.81409			1493	
71	Total PeCB-F3	1		2917289								415.38872			852	
72	Total PeCB-F5	13		10163345								259733.40414			3630	
73	Total HxCB-F4	4		2283473								3792.49128			865	
74	Total HxCB-F5	16		6246492								526851.99606			1735	

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Name: 5-201202A07, Date: 02-Dec-2020, Time: 12:39:10, ID: H5-20-CS4-1035, Description: 1668A-CS4-020, Vial: Tray1:7

	Target Analyte	#Hom	Total Area	Ion1 Area	Ion2 Area	Ra	Ra Fail=Y...	RT	RRT	RT LCL	RT UCL	Conc.	%Rec	Mod.Comment	Noise 1	Noise 2
75	Total HpCB-F5	10		5034599								7572029.550...			1585	
76	Total HpCB-F6	5		1196174								100242.84585			1312	
77	Total OcCB-F5	6		1137060								20623.51489			1008	
78	Total OcCB-F6	4		901888								172098.24458			960	
79	Total NoCB-F6	3		1374470								2964.02155			918	
80	Total DeCB-F7	1		855231								383.21115			424	
81	Total 13C-MoCB-F1	2		3046802								197.86436			2376	
82	Total 13C-DiCB-F1	3		2047454								199.38471			4391	
83	Total 13C-DiCB-F2	3		2003818								1884844.629...			7307	
84	Total 13C-TrCB-F1	1		507211								98.17105			45883	
85	Total 13C-TrCB-F3	4		2014218								1703.61220			23580	
86	Total 13C-TeCB-F2	1		589676								99.14443			6816	
87	Total 13C-TeCB-F3	3		367019								102.45641			6385	
88	Total 13C-TeCB-F4	8		734898								20935.84753			5164	
89	Total 13C-PeCB-F3	2		612668								414.89267			1201	
90	Total 13C-PeCB-F4	5		990473								301.46893			1987	
91	Total 13C-PeCB-F5	12		2073150								43292.65465			1924	
92	Total 13C-HxCB-F4	2		526070								2356.36023			1335	
93	Total 13C-HxCB-F5	14		1894554								618.96281			2628	
94	Total 13C-HpCB-F5	6		564163								13745.15283			1006	
95	Total 13C-HpCB-F6	6		293312								28817.96576			1049	
96	Total 13C-OcCB-F5	2		254208								1195.94733			732	
97	Total 13C-OcCB-F6	4		367520								205.08445			612	
98	Total 13C-NoCB-F6	2		270547								197.09431			574	
99	Total 13C-DeCB-F7	1		222359								99.39312			199	
100	Lockmass F1			0											603378	
101	Lockmass F2			0											354518	
102	Lockmass F3			0											513653	
103	Lockmass F4			0											403410	
104	Lockmass F5			0											133715	
105	Lockmass F6			0											104486	
106	Lockmass F7			0											31563	

Quantify Sample Summary Report **MassLynx MassLynx V4.1 SCN 901**

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Name: 5-201202A08, Date: 02-Dec-2020, Time: 13:21:16, ID: H5-20-CS5-1035, Description: 1668A-CS5-020, Vial: Tray1:8

	Target Analyte	#Hom	Total Area	Ion1 Area	Ion2 Area	Ra	Ra Fail=Y...	RT	RRT	RT LCL	RT UCL	Conc.	%Rec	Mod.Comment	Noise 1	Noise 2
1	PCB-1		53062033	39484684	13577349	2.91	NO	8.95	1.00	8.92	8.99	1962.00207	98.1		4936	2942
2	PCB-3		52253674	39657708	12595966	3.15	NO	10.47	1.00	10.43	10.50	2093.34068	104.7		4936	2942
3	PCB-4		26172294	15704469	10467825	1.50	NO	10.63	1.00	10.60	10.67	2057.37200	102.9		4553	23992
4	PCB-15		45239784	27618920	17620864	1.57	NO	14.29	1.00	14.25	14.32	2163.14641	108.2		5196	5318
5	PCB-19		26157723	13373889	12783834	1.05	NO	12.62	1.00	12.59	12.66	2082.17838	104.1		3462	2874
6	PCB-37		31781307	16382398	15398909	1.06	NO	18.23	1.00	18.20	18.26	2142.56617	107.1		17580	16048
7	PCB-54		32912160	14404434	18507726	0.78	NO	14.47	1.00	14.44	14.51	2088.54665	104.4		1542	1473
8	PCB-81		24819179	10903253	13915926	0.78	NO	21.80	1.00	21.76	21.83	2155.46291	107.8		2690	2468
9	PCB-77		24270856	10705096	13565760	0.79	NO	22.10	1.00	22.07	22.14	2171.39575	108.6		2690	2468
10	PCB-104		27699705	16852242	10847463	1.55	NO	17.51	1.00	17.48	17.55	2132.88540	106.6		809	2218
11	PCB-123		19820906	12123029	7697877	1.57	NO	23.08	1.00	23.05	23.11	2145.73663	107.3		6940	5215
12	PCB-118		21999993	13434328	8565665	1.57	NO	23.25	1.00	23.22	23.28	2137.35849	106.9		6940	5215
13	PCB-114		20904567	12736644	8167923	1.56	NO	23.55	1.00	23.52	23.58	2056.67735	102.8		6940	5215
14	PCB-105		20111057	12258207	7852850	1.56	NO	23.91	1.00	23.88	23.95	2161.00866	108.1		6940	5215
15	PCB-126		19925894	12214425	7711469	1.58	NO	25.50	1.00	25.46	25.53	2219.62753	111.0		6940	5215
16	PCB-155		25240307	14063621	11176686	1.26	NO	20.49	1.00	20.46	20.53	2137.31595	106.9		1891	3350
17	PCB-167		17527869	9624452	7903417	1.22	NO	26.39	1.00	26.36	26.42	2113.67376	105.7		3712	3527
18	PCB-156/157		36812073	20242110	16569963	1.22	NO	27.02	1.00	26.99	27.05	4234.77169	105.9		3712	3527
19	PCB-169		16032746	8843189	7189557	1.23	NO	28.67	1.00	28.64	28.71	2155.47198	107.8		3712	3527
20	PCB-188		18124106	9122389	9001717	1.01	NO	23.49	1.00	23.46	23.52	2161.12966	108.1		7094	9053
21	PCB-189		14415284	7369939	7045345	1.05	NO	29.95	1.00	29.91	29.98	2131.29666	106.6		8747	6902
22	PCB-202		15467116	7227635	8239481	0.88	NO	26.27	1.00	26.24	26.30	2087.09772	104.4		1039	1288
23	PCB-205		11008037	5234738	5773299	0.91	NO	31.34	1.00	31.31	31.37	2101.84129	105.1		1264	1976
24	PCB-208		11869659	5287736	6581924	0.80	NO	29.68	1.00	29.65	29.71	2066.95695	103.3		1555	1437
25	PCB-206		7985779	3557539	4428240	0.80	NO	32.40	1.00	32.37	32.43	2069.28527	103.5		1555	1437
26	PCB-209		9807754	5315961	4491793	1.18	NO	33.53	1.00	33.49	33.56	1932.03460	96.6		488	522
27	13C-PCB-31		1239834	639706	600127	1.07	NO	15.82	0.87	15.79	15.85	81.78201	81.8		29752	10431
28	13C-PCB-95		452731	280686	172045	1.63	NO	19.12	1.09	19.08	19.15	77.21829	77.2		1778	1442
29	13C-PCB-153		564389	320565	243824	1.31	NO	24.17	1.18	24.13	24.20	79.76825	79.8		1706	1612
30	13C-PCB-28		1276734	655947	620787	1.06	NO	15.99	0.94	15.95	16.02	103.71324	103.7		29752	10431
31	13C-PCB-111		577330	357952	219378	1.63	NO	22.01	1.07	21.98	22.04	102.33273	102.3		1778	1442
32	13C-PCB-178		404626	206139	198487	1.04	NO	25.05	1.01	25.02	25.08	99.78157	99.8		1367	1110
33	13C-PCB-1		2364742	1777991	586751	3.03	NO	8.94	0.75	8.91	8.97	124.14001	124.1		1589	8873
34	13C-PCB-3		2087720	1563892	523828	2.99	NO	10.47	0.88	10.43	10.50	123.29325	123.3		1589	8873
35	13C-PCB-4		1428457	875018	553440	1.58	NO	10.62	0.89	10.59	10.65	119.84853	119.8		4677	1525
36	13C-PCB-15		1906345	1183990	722355	1.64	NO	14.28	1.20	14.24	14.31	128.14631	128.1		10002	3217
37	13C-PCB-19		1080125	547882	532244	1.03	NO	12.61	1.06	12.58	12.64	121.22302	121.2		38016	33562

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Printed: Wednesday, April 28, 2021 10:50:51 Eastern Daylight Time

Name: 5-201202A08, Date: 02-Dec-2020, Time: 13:21:16, ID: H5-20-CS5-1035, Description: 1668A-CS5-020, Vial: Tray1:8

	Target Analyte	#Hom	Total Area	Ion1 Area	Ion2 Area	Ra	Ra Fail=Y...	RT	RRT	RT LCL	RT UCL	Conc.	%Rec	Mod.Comment	Noise 1	Noise 2
38	13C-PCB-37		1331770	688105	643665	1.07	NO	18.22	1.07	18.19	18.25	131.54827	131.5		29752	10431
39	13C-PCB-54		1475638	651930	823709	0.79	NO	14.46	0.85	14.43	14.50	123.89813	123.9		7980	4513
40	13C-PCB-81		950127	427335	522792	0.82	NO	21.79	1.06	21.76	21.82	123.69556	123.7		5935	3442
41	13C-PCB-77		962362	435070	527292	0.83	NO	22.08	1.07	22.05	22.12	123.16539	123.2		5935	3442
42	13C-PCB-104		1126377	683004	443373	1.54	NO	17.50	1.03	17.47	17.54	116.89834	116.9		980	1121
43	13C-PCB-123		838393	512496	325897	1.57	NO	23.08	1.12	23.05	23.11	124.62861	124.6		1644	1540
44	13C-PCB-118		879019	542458	336561	1.61	NO	23.25	1.13	23.22	23.28	124.47493	124.5		1644	1540
45	13C-PCB-114		826562	512452	314110	1.63	NO	23.55	0.95	23.52	23.58	128.39158	128.4		1644	1540
46	13C-PCB-105		772082	477383	294699	1.62	NO	23.90	0.96	23.87	23.93	121.19199	121.2		1644	1540
47	13C-PCB-126		740813	456627	284186	1.61	NO	25.48	1.03	25.45	25.52	128.18285	128.2		1644	1540
48	13C-PCB-155		1116605	617645	498960	1.24	NO	20.48	0.99	20.45	20.52	121.98926	122.0		1245	873
49	13C-PCB-167		751430	424140	327290	1.30	NO	26.38	1.06	26.35	26.41	122.25792	122.3		1706	1612
50	13C-PCB-156/157		1522626	862447	660179	1.31	NO	27.01	1.09	26.97	27.04	256.87799	128.4		1706	1612
51	13C-PCB-169		681418	385412	296006	1.30	NO	28.66	1.15	28.63	28.70	122.36975	122.4		1706	1612
52	13C-PCB-188		888961	448605	440356	1.02	NO	23.48	0.94	23.44	23.51	123.22174	123.2		1367	1110
53	13C-PCB-189		670263	344479	325784	1.06	NO	29.93	0.96	29.90	29.96	118.97509	119.0		1221	1206
54	13C-PCB-202		687711	325497	362213	0.90	NO	26.26	1.06	26.22	26.29	123.34186	123.3		519	976
55	13C-PCB-205		572061	268294	303767	0.88	NO	31.31	1.01	31.28	31.35	113.83589	113.8		1019	725
56	13C-PCB-208		470209	209041	261167	0.80	NO	29.67	0.96	29.63	29.70	117.32957	117.3		475	606
57	13C-PCB-206		318787	141896	176891	0.80	NO	32.39	1.04	32.35	32.42	113.55076	113.6		475	606
58	13C-PCB-209		501467	273693	227774	1.20	NO	33.50	1.08	33.46	33.53	111.95354	112.0		212	201
59	13C-PCB-9		1771553	1080905	690648	1.57	NO	11.88	0.48	11.85	11.92	88.52773	88.5		4677	1525
60	13C-PCB-52		698102	315732	382370	0.83	NO	16.98	0.68	16.94	17.01	88.30326	88.3		6459	3371
61	13C-PCB-101		495892	305663	190229	1.61	NO	20.62	0.83	20.59	20.66	94.47904	94.5		1778	1442
62	13C-PCB-138		484914	273752	211162	1.30	NO	24.86	0.00	24.82	24.89	97.02427	97.0		1706	1612
63	13C-PCB-194		337569	158277	179292	0.88	NO	31.03	1.25	31.00	31.07	100.94078	100.9		1019	725
64	Total MoCB-F1	7		80541930								1574252.804...			4936	
65	Total DiCB-F1	2		16711990								1901054.600...			4553	
66	Total DiCB-F2	5		27923313								440208.85591			5196	
67	Total TrCB-F1	4		13376999								6902.02939			1185	
68	Total TrCB-F3	6		56837751								70639553.41...			5917	
69	Total TeCB-F2	2		14405143								3447.26875			1542	
70	Total TeCB-F4	10		21799977								369980.22802			2690	
71	Total PeCB-F3	4		16855541								7685.58107			809	
72	Total PeCB-F5	13		63756848								1371722.109...			6940	
73	Total HxCB-F4	5		14073669								19156.41690			1891	
74	Total HxCB-F5	20		40758086								3389316.564...			3712	

Quantify Sample Summary Report **MassLynx MassLynx V4.1 SCN 901**

Dataset: C:\MassLynx\PCB.PRO\Results\Local\2020-ARCHIVE\2020-December\5-201202A-ICAL.qld

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Printed: Wednesday, April 28, 2021 10:50:51 Eastern Daylight Time

Name: 5-201202A08, Date: 02-Dec-2020, Time: 13:21:16, ID: H5-20-CS5-1035, Description: 1668A-CS5-020, Vial: Tray1:8

	Target Analyte	#Hom	Total Area	Ion1 Area	Ion2 Area	Ra	Ra Fail=Y...	RT	RRT	RT LCL	RT UCL	Conc.	%Rec	Mod.Comment	Noise 1	Noise 2
75	Total HpCB-F5	16		32934099								50108239.52...			4339	
76	Total HpCB-F6	7		7689790								610810.60225			3637	
77	Total OcCB-F5	11		7290532								123874.54540			1039	
78	Total OcCB-F6	6		5705525								1068746.619...			1264	
79	Total NoCB-F6	3		8850746								14204.29455			1555	
80	Total DeCB-F7	1		5315961								1932.03460			488	
81	Total 13C-MoCB-F1	4		3359045								22634.60822			1589	
82	Total 13C-DiCB-F1	5		1961572								209.33894			4677	
83	Total 13C-DiCB-F2	3		2089608								1730415.877...			10002	
84	Total 13C-TrCB-F1	2		548630								6792.37203			38016	
85	Total 13C-TrCB-F3	7		2000810								18656.23420			29752	
86	Total 13C-TeCB-F2	1		651930								123.89813			7980	
87	Total 13C-TeCB-F3	4		325861								91.03567			6459	
88	Total 13C-TeCB-F4	6		872661								14501.24215			5935	
89	Total 13C-PeCB-F3	4		684746								1943.25477			980	
90	Total 13C-PeCB-F4	6		947894								277.58155			1778	
91	Total 13C-PeCB-F5	14		2537476								46609.84556			1644	
92	Total 13C-HxCB-F4	3		620185								2652.18619			1245	
93	Total 13C-HxCB-F5	11		2285555								710.29576			1706	
94	Total 13C-HpCB-F5	10		667323								20697.81269			1367	
95	Total 13C-HpCB-F6	5		363312								30347.45250			1221	
96	Total 13C-OcCB-F5	6		327790								4113.66172			519	
97	Total 13C-OcCB-F6	5		439027								230.50605			1019	
98	Total 13C-NoCB-F6	2		350938								230.88034			475	
99	Total 13C-DeCB-F7	1		273693								111.95354			212	
100	Lockmass F1			0											499419	
101	Lockmass F2			0											344061	
102	Lockmass F3			0											459287	
103	Lockmass F4			0											327346	
104	Lockmass F5			0											108938	
105	Lockmass F6			0											98603	
106	Lockmass F7			0											29545	

Quantify Audit Report MassLynx MassLynx V4.1 SCN 901

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Date	Time	Event	Details	Comments
02-Dec-20	15:50:01	Process Extract		
02-Dec-20	15:50:01	Process Integrate		
02-Dec-20	15:50:01	Process Calibrate		
02-Dec-20	15:50:01	Process Quantify		
02-Dec-20	15:50:06	Dataset Created		
02-Dec-20	15:51:11	Pre modification peak	Sample:5-201202A03, Compound:DiCB-F1, RT:10.634	
02-Dec-20	15:51:11	Peak modified	Sample:5-201202A03, Compound:DiCB-F1, RT:10.634	SJ201202MB
02-Dec-20	15:51:36	Pre modification peak	Sample:5-201202A03, Compound:DiCB-F1, RT:10.634	
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02-Dec-20	15:52:32	Pre modification peak	Sample:5-201202A03, Compound:TrCB-F3, RT:18.239	
02-Dec-20	15:52:32	Peak modified	Sample:5-201202A03, Compound:TrCB-F3, RT:18.239	SJ201202MS
02-Dec-20	15:53:12	Pre modification peak	Sample:5-201202A03, Compound:PeCB-F5, RT:23.913	
02-Dec-20	15:53:12	Peak modified	Sample:5-201202A03, Compound:PeCB-F5, RT:23.913	SJ201202MB
02-Dec-20	15:53:12	Pre modification peak	Sample:5-201202A03, Compound:PeCB-F5, RT:23.080	
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02-Dec-20	15:54:15	Pre modification peak	Sample:5-201202A03, Compound:NoCB-F6, RT:29.667	
02-Dec-20	15:54:15	Peak modified	Sample:5-201202A03, Compound:NoCB-F6, RT:29.667	SJ201202MB
02-Dec-20	15:54:15	Pre modification peak	Sample:5-201202A03, Compound:NoCB-F6, RT:29.667	
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02-Dec-20	16:00:29	Pre modification peak	Sample:5-201202A03, Compound:TeCB-F4, RT:21.807	
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02-Dec-20	16:02:31	Pre modification peak	Sample:5-201202A02, Compound:TeCB-F4, RT:22.131	
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02-Dec-20	16:04:28	Calibration Saved	Saved to 'C:\MassLynx\PCB.PRO\CurveDB\5-201202A-ICAL....	
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Dataset: C:\MassLynx\PCB.PRO\Results\Local\2020-ARCHIVE\2020-December\5-201202A-ICAL.qld

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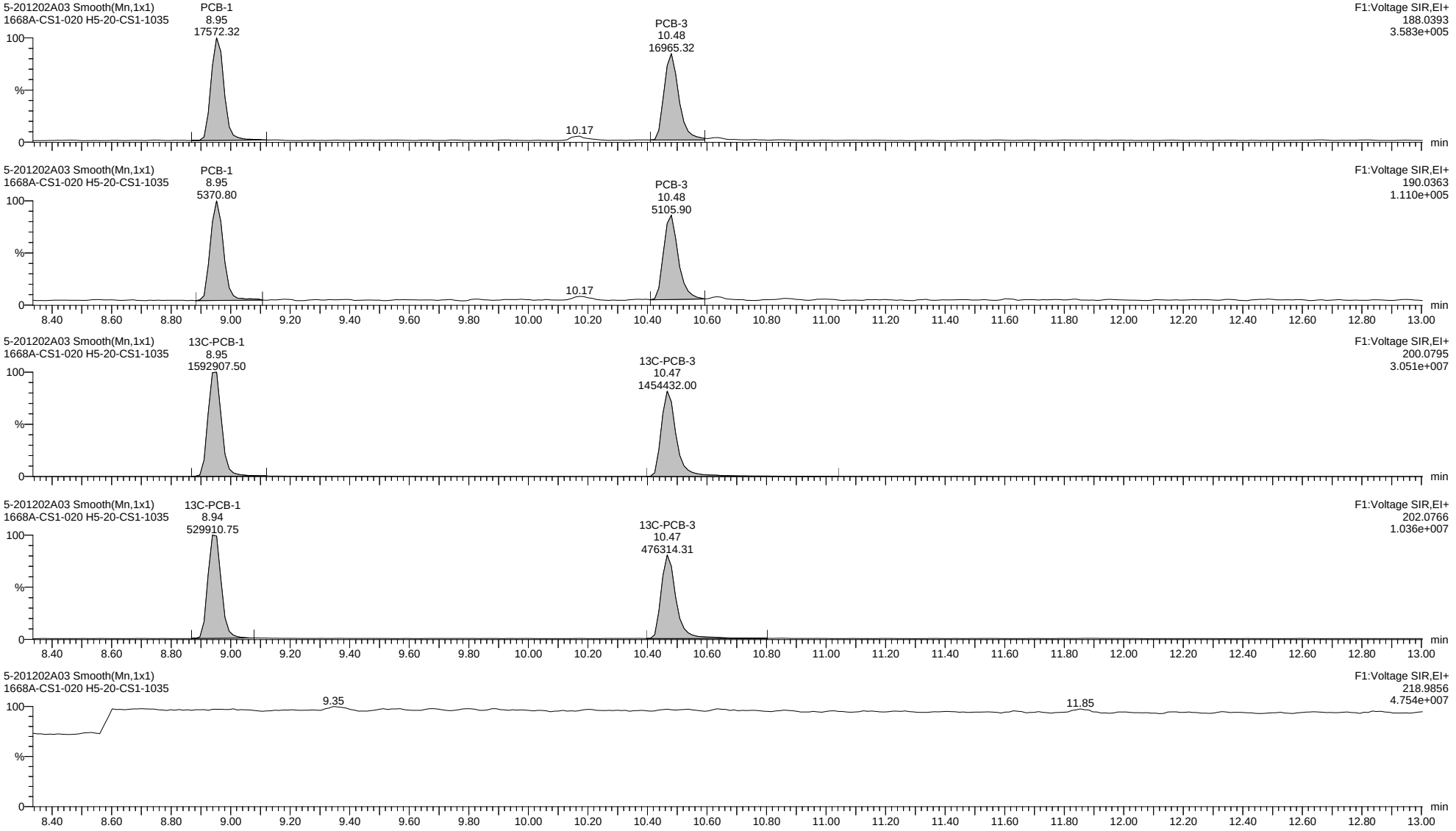
Method: C:\MassLynx\PCB.PRO\MethDB\1668-OCTYL-1-ICAL-201030B.mdb 07 Feb 2020 11:57:21
Calibration: C:\MassLynx\PCB.PRO\CurveDB\5-201202A-ICAL.cdb 02 Dec 2020 15:02:34

Name: 5-201202A03, Date: 02-Dec-2020, Time: 11:14:48, ID: H5-20-CS1-1035, Description: 1668A-CS1-020, Vial: Tray1:5



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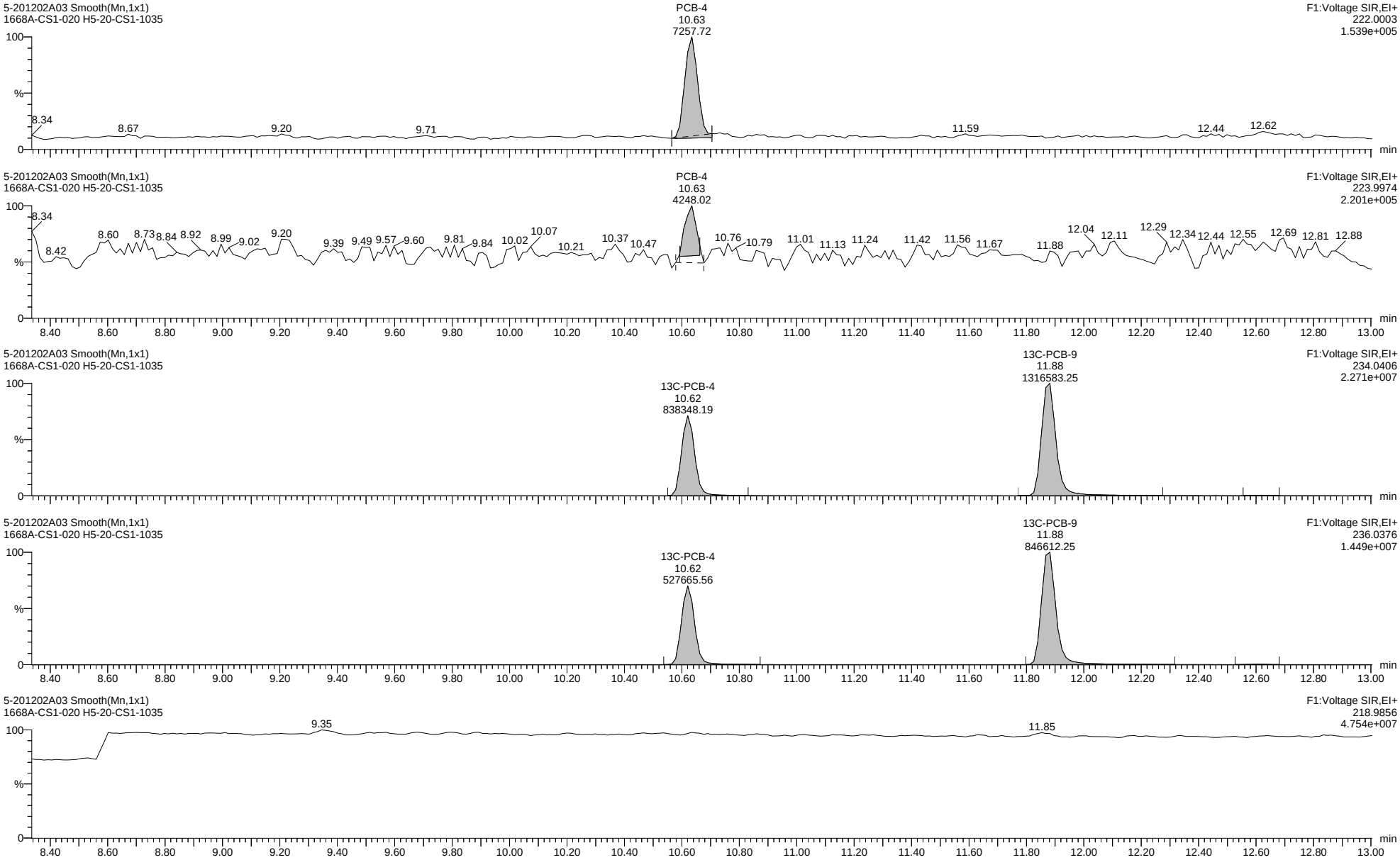

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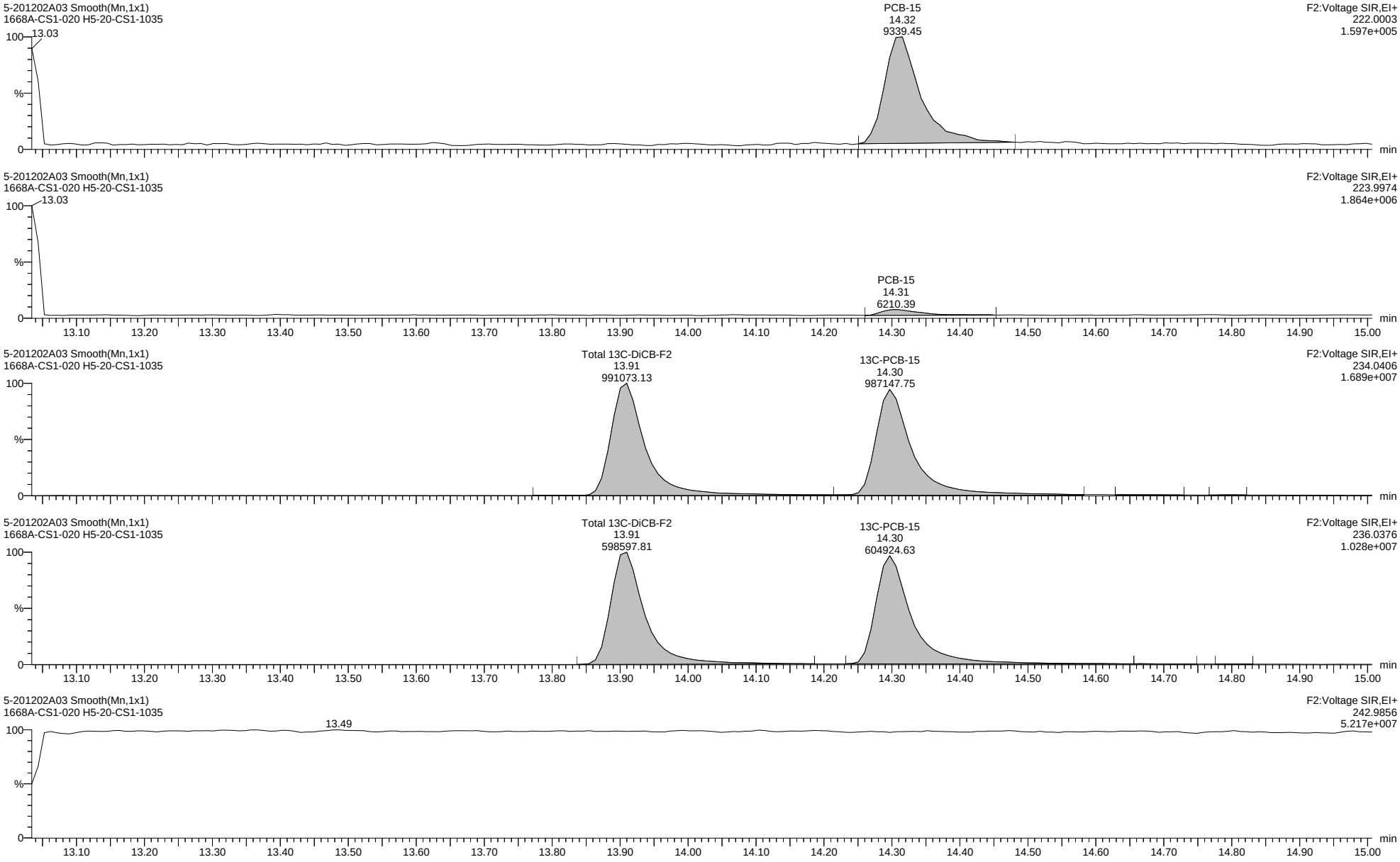

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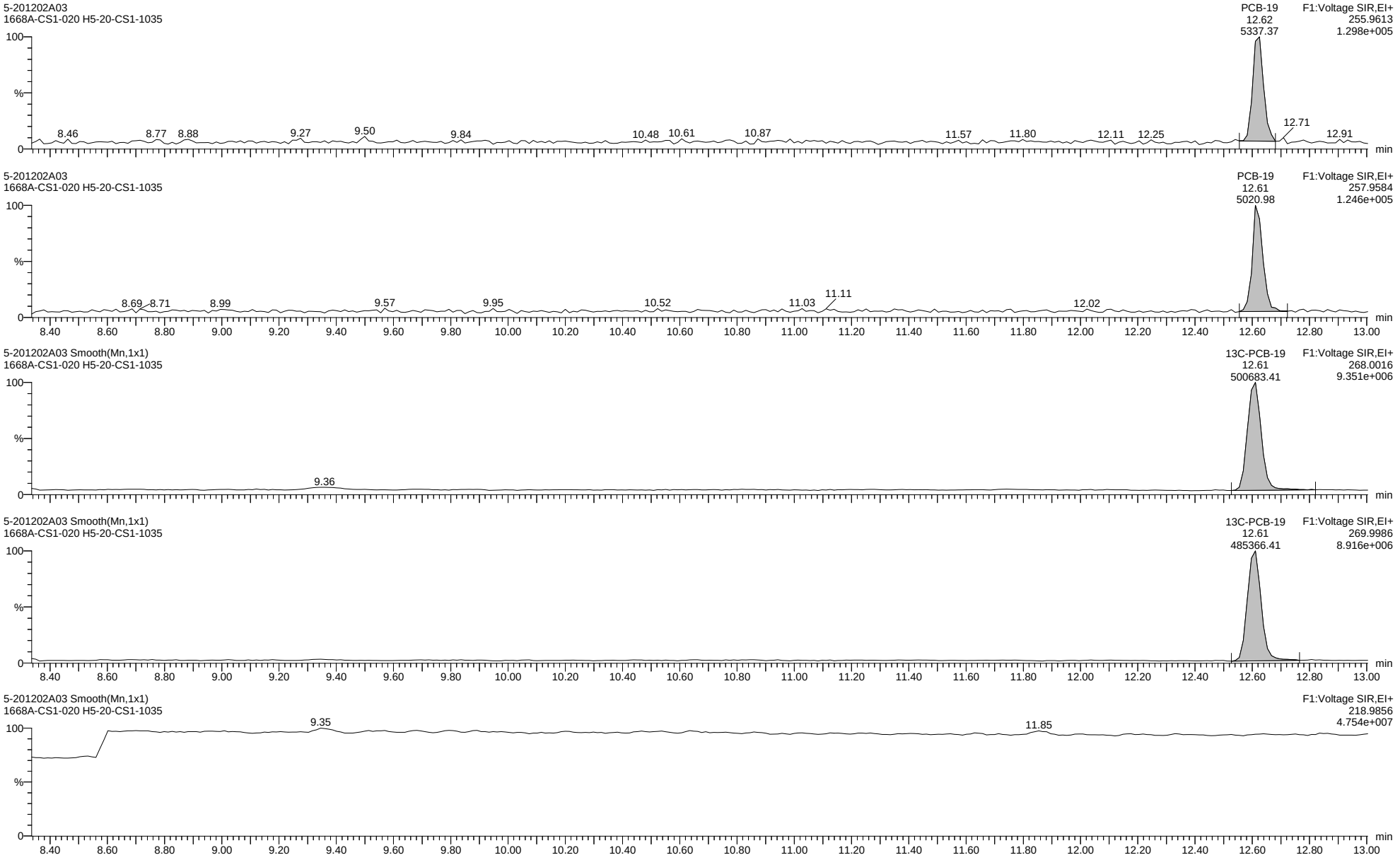
Name: 5-201202A03, Date: 02-Dec-2020, Time: 11:14:48, ID: H5-20-CS1-1035, Description: 1668A-CS1-020, Vial: Tray1:5



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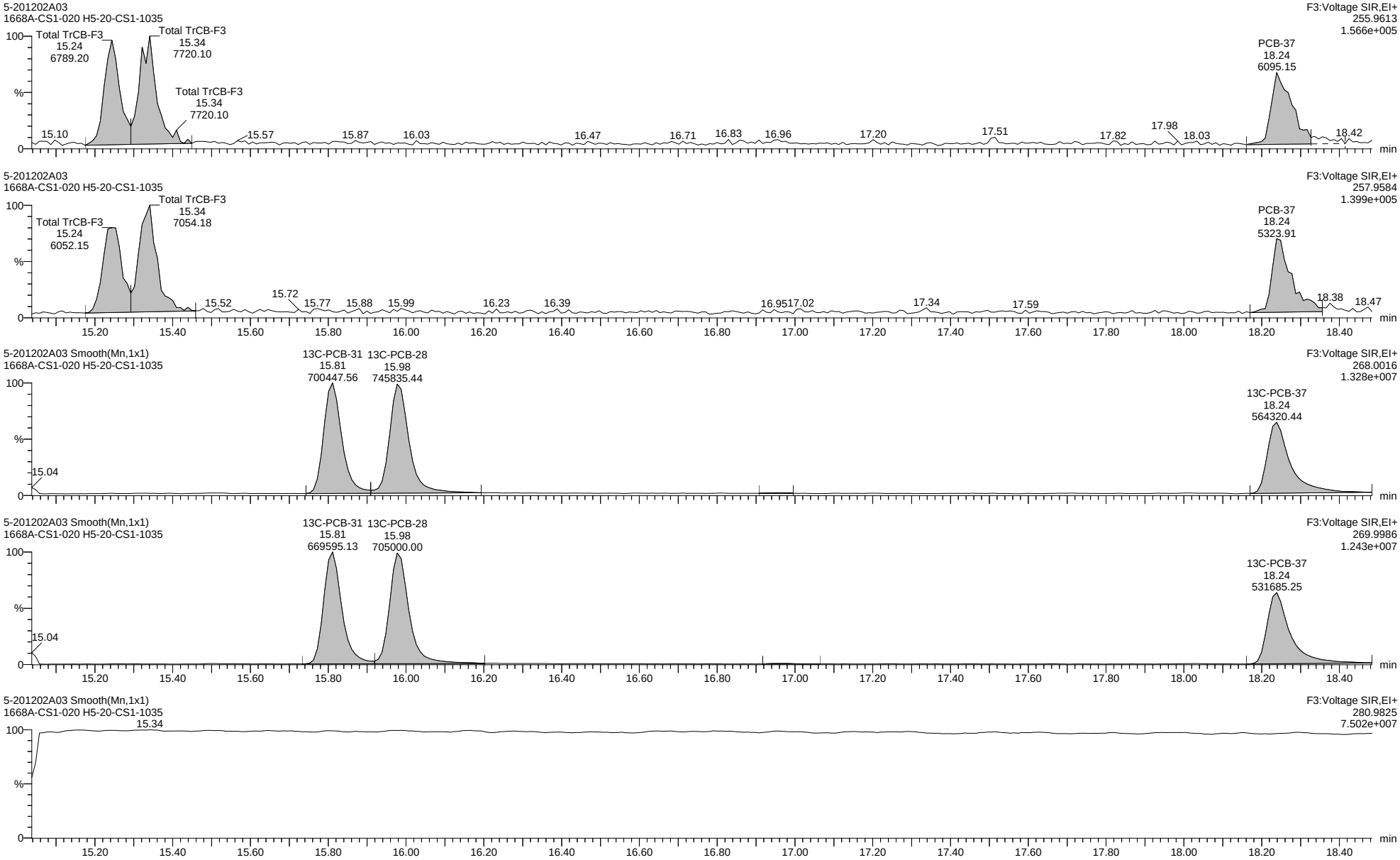

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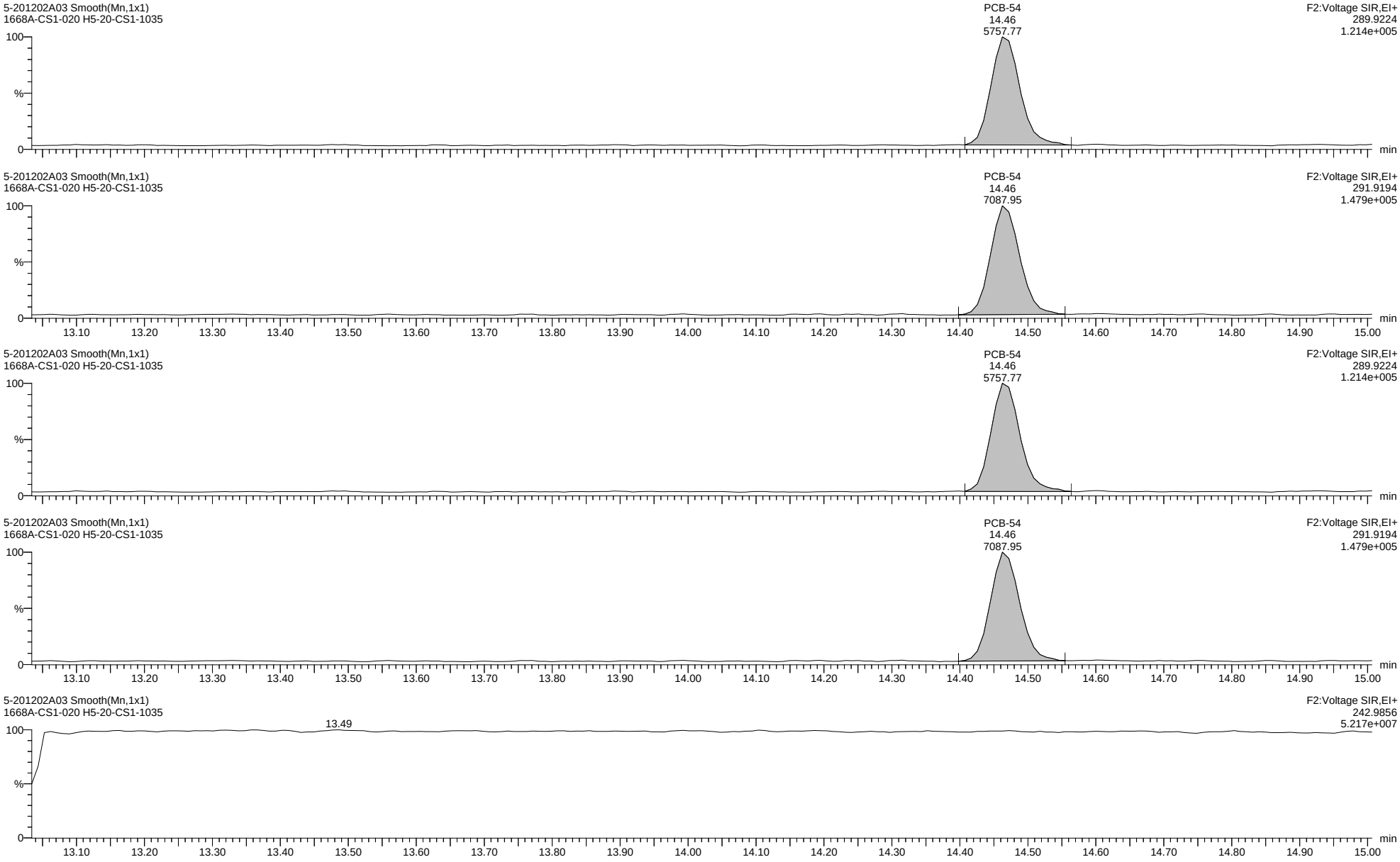

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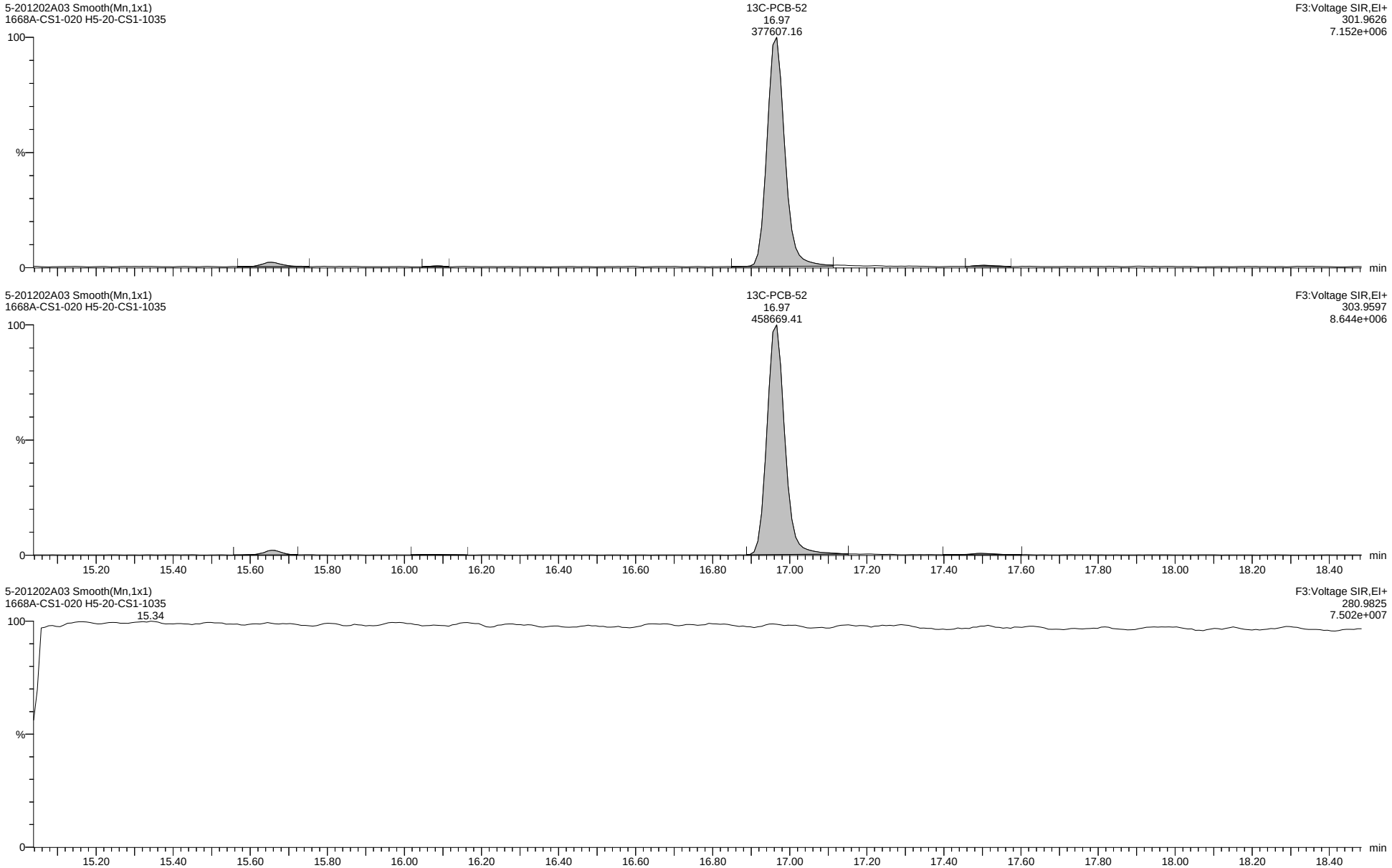

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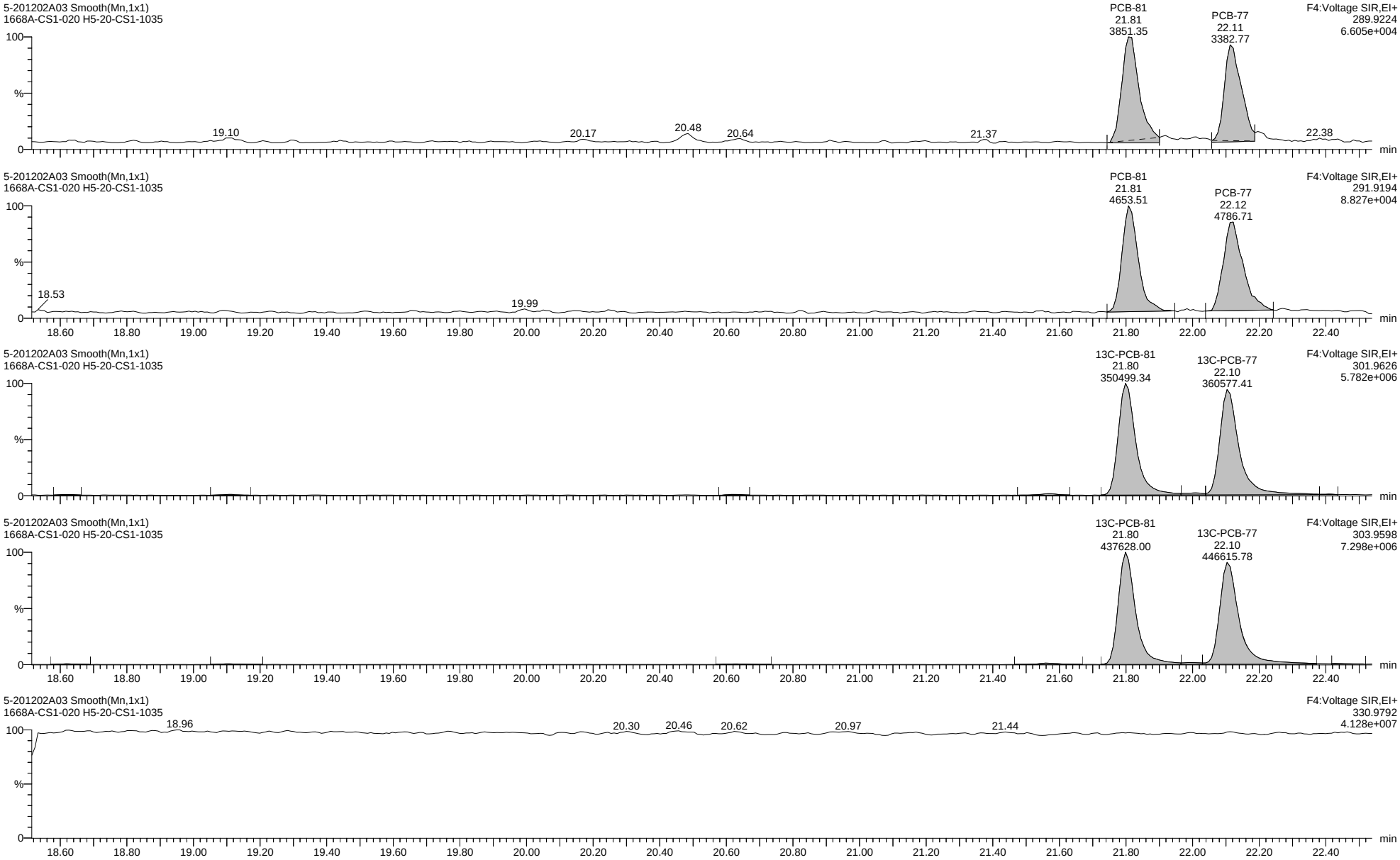

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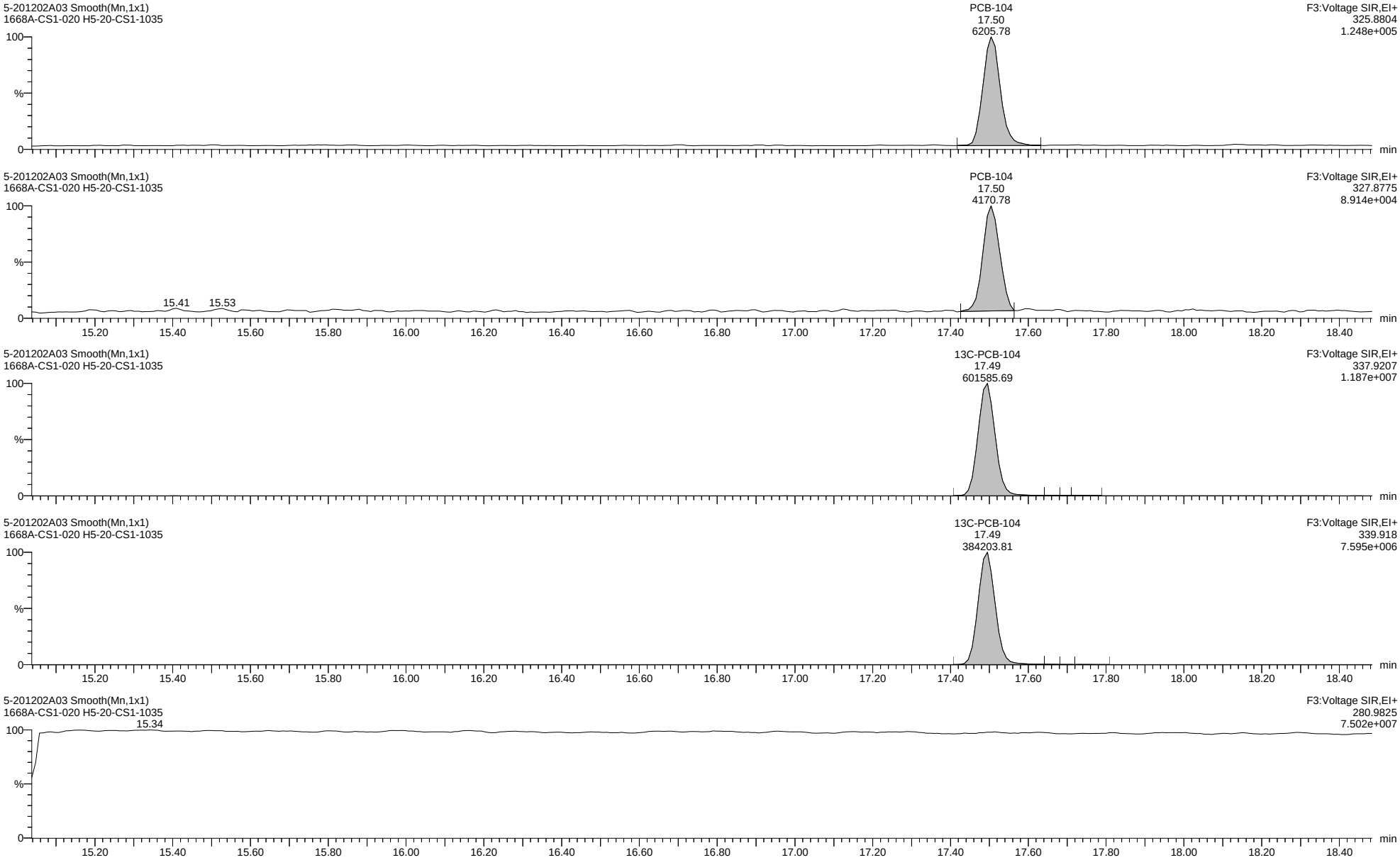

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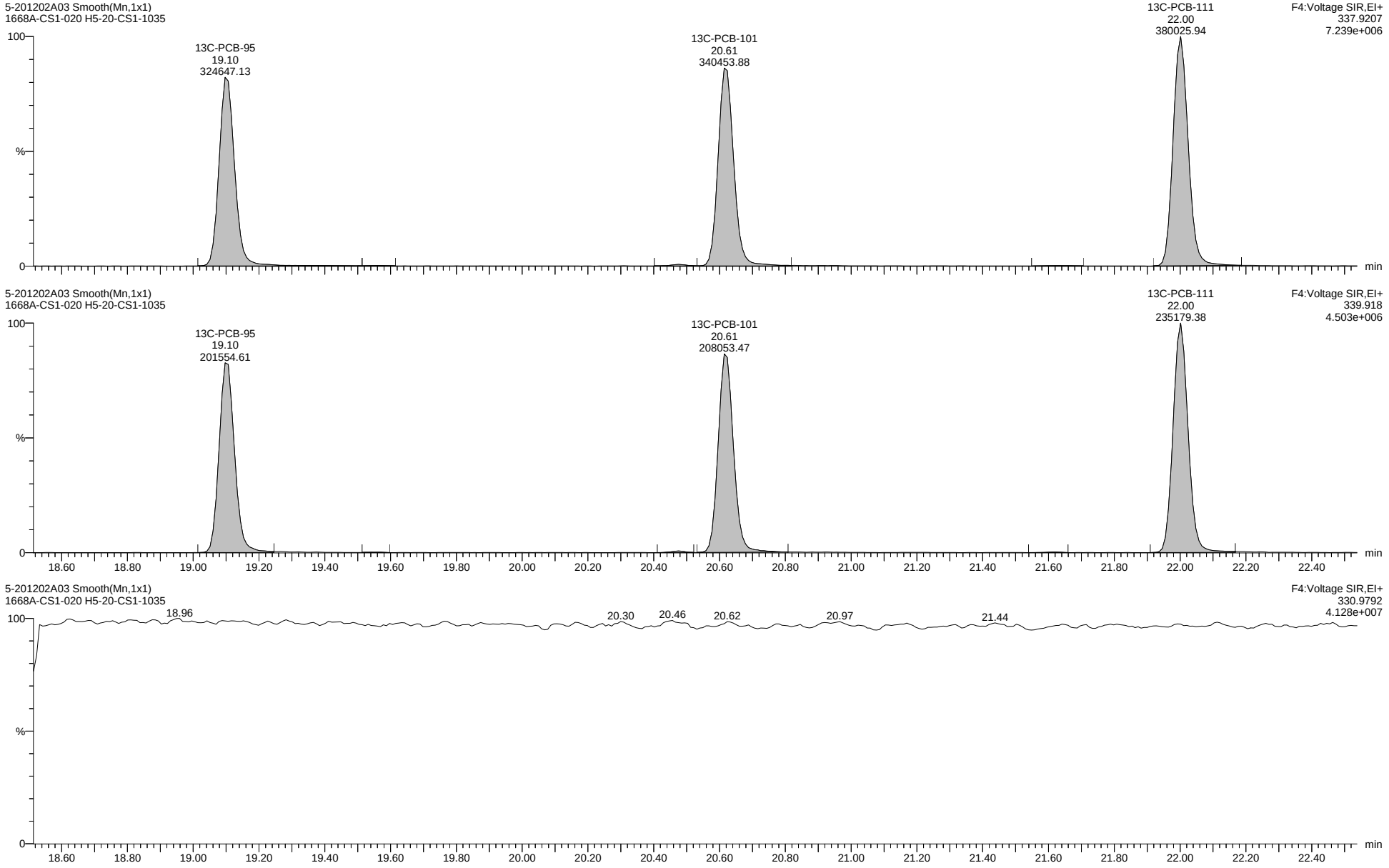

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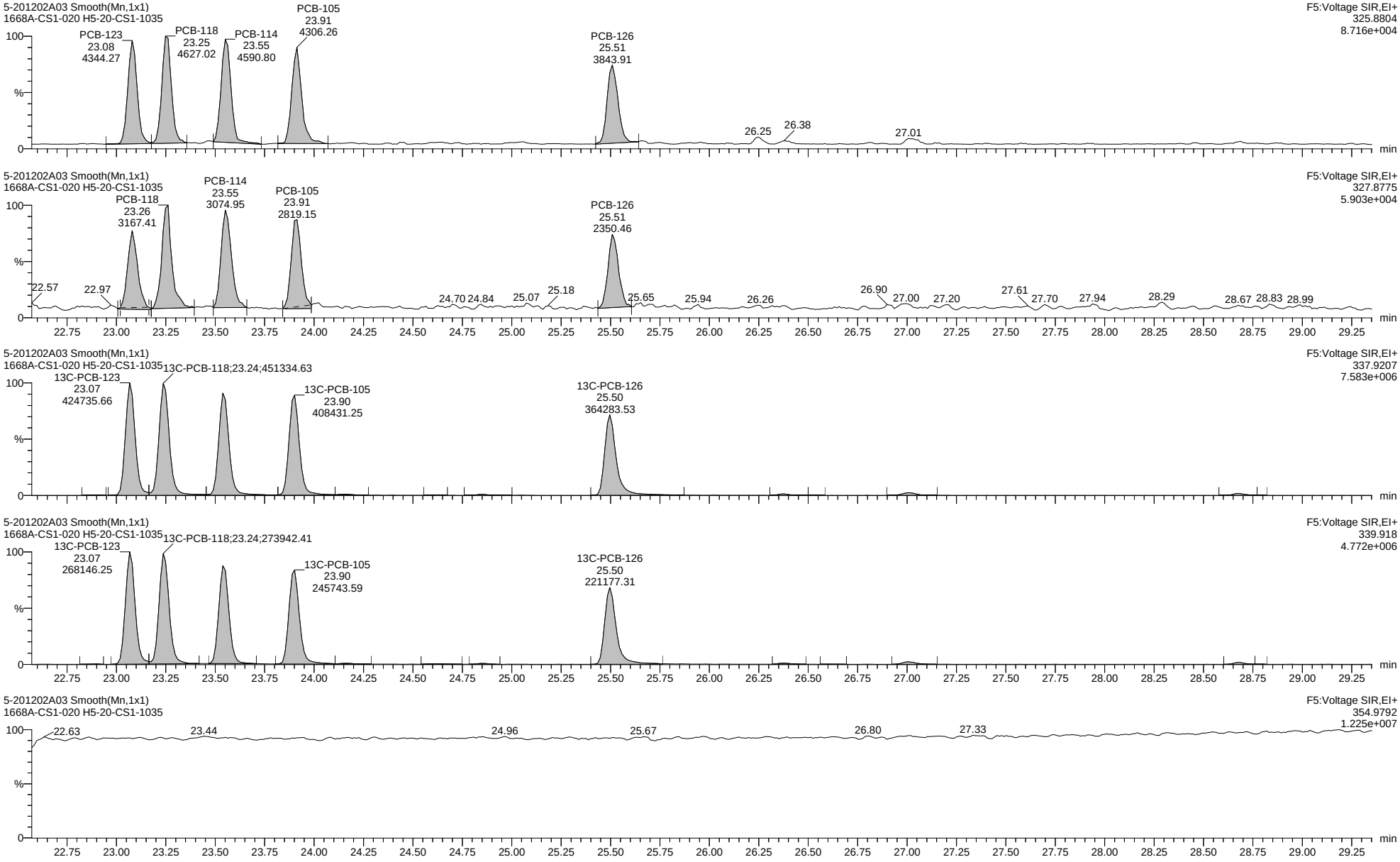

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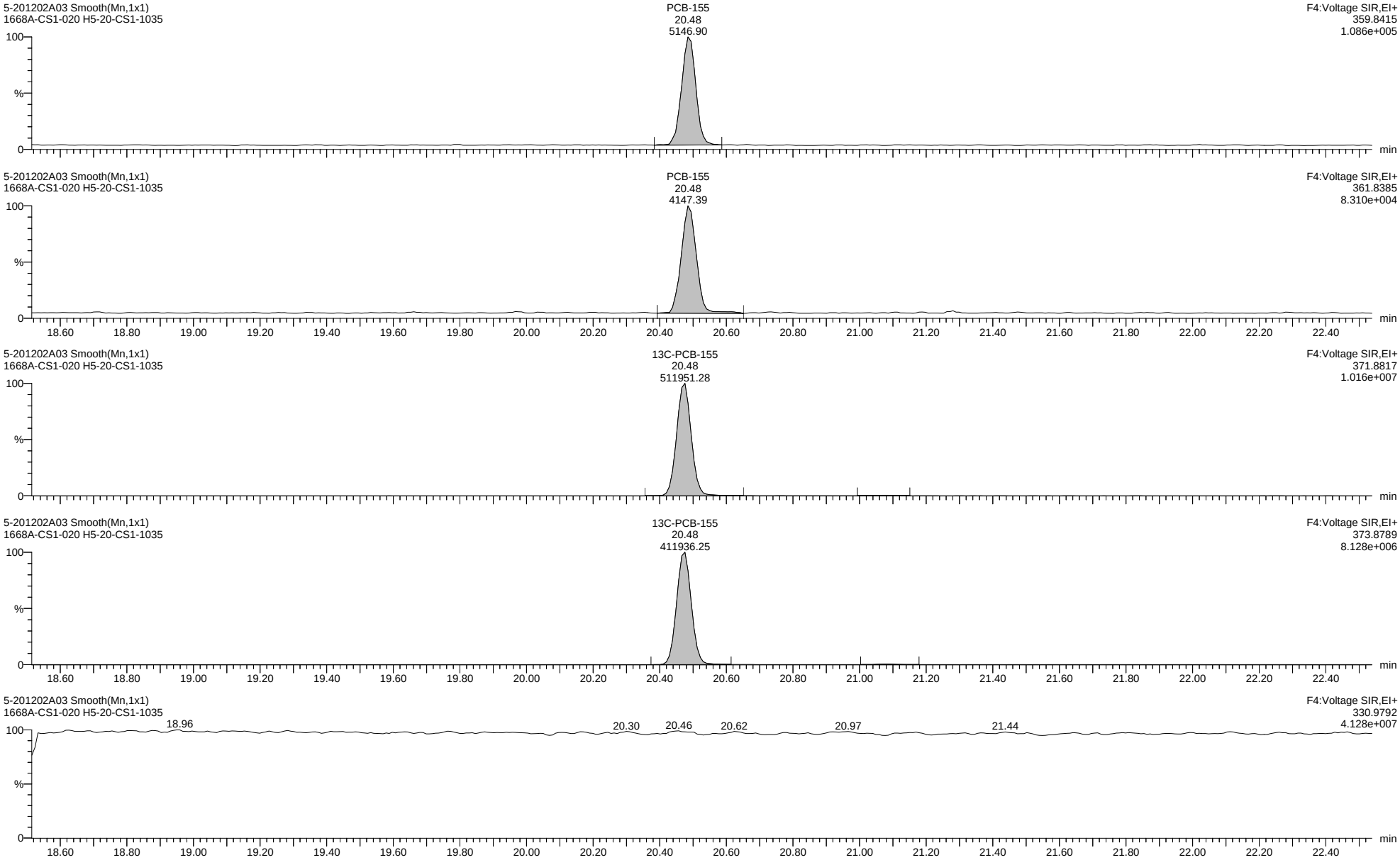

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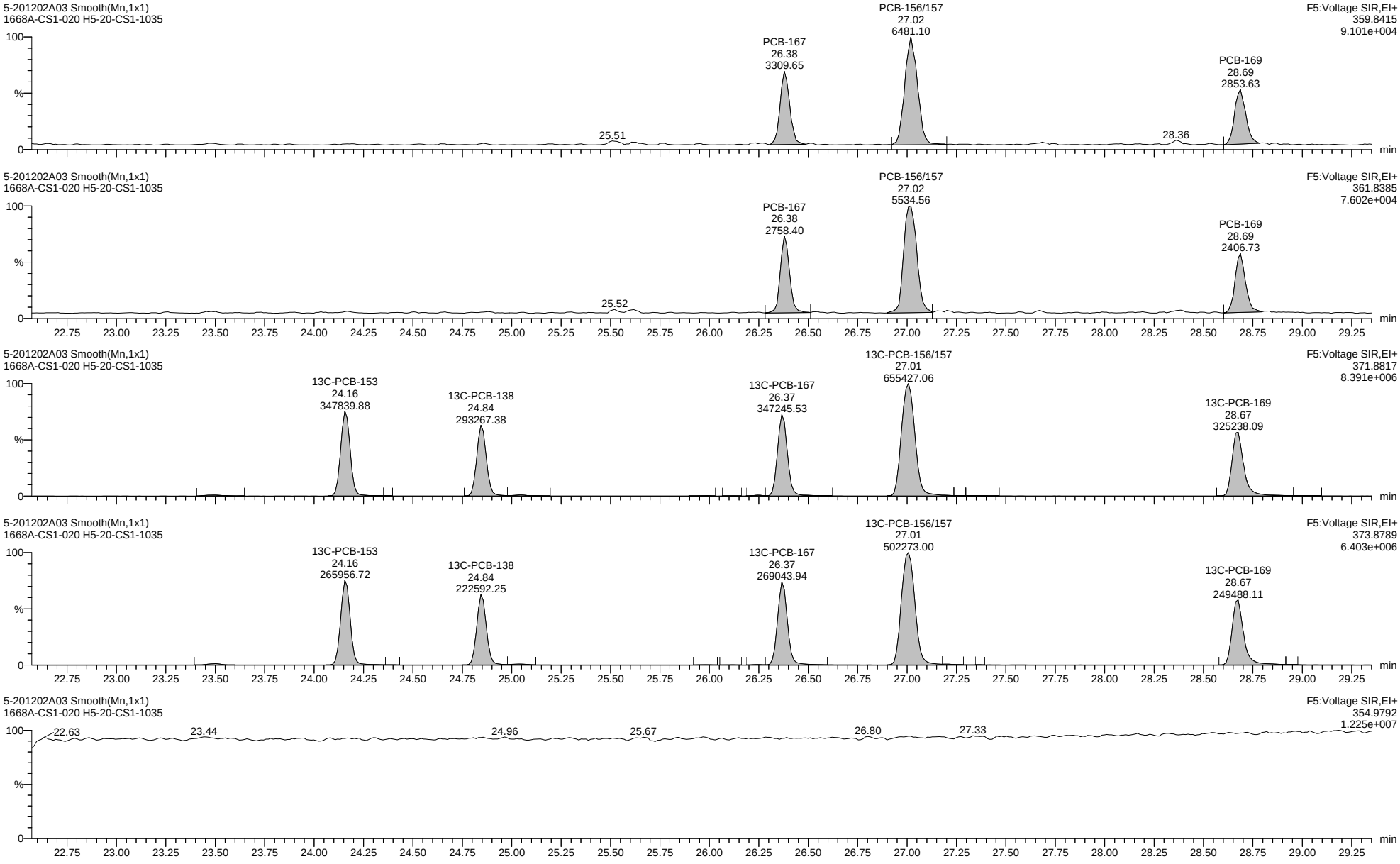

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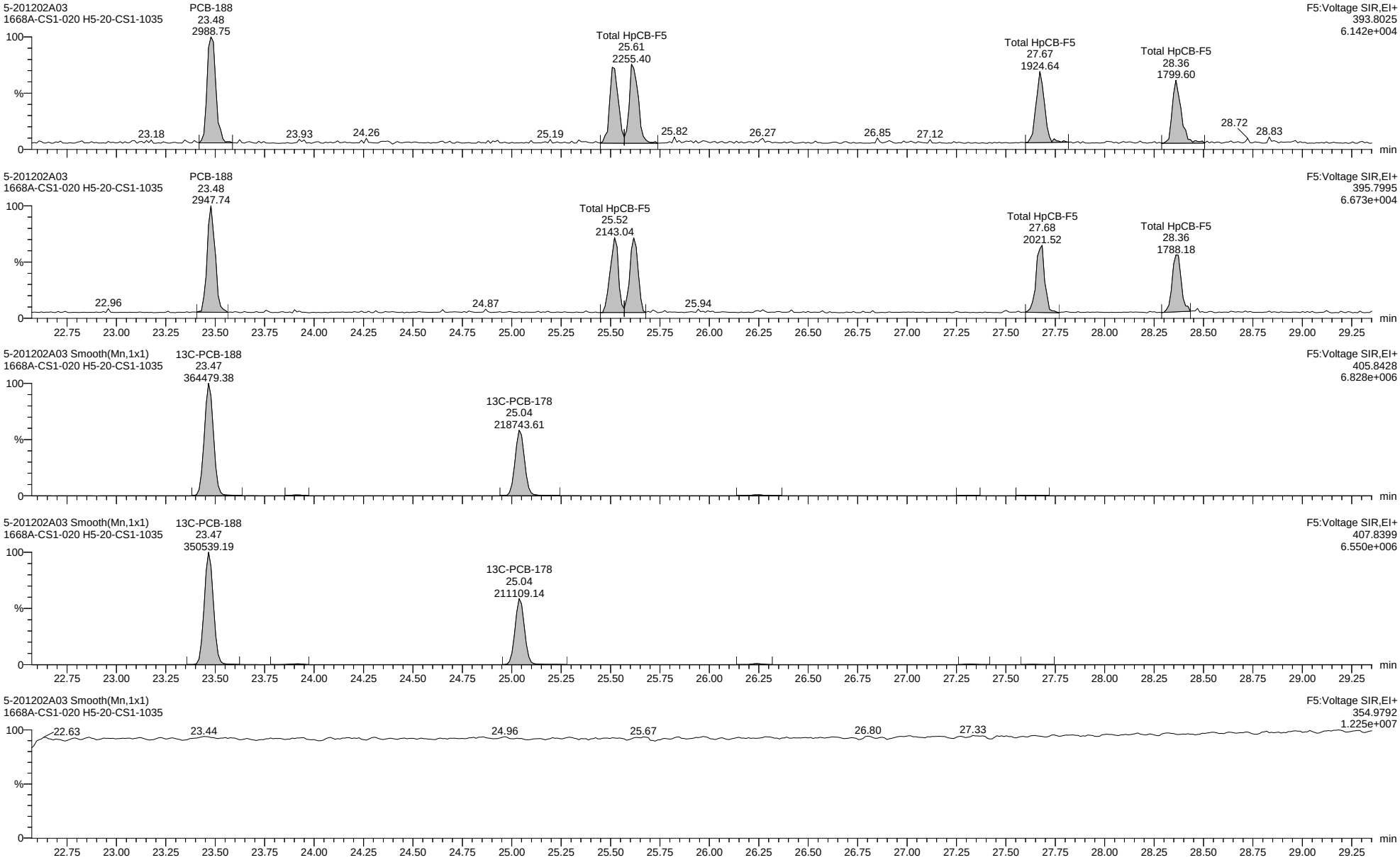

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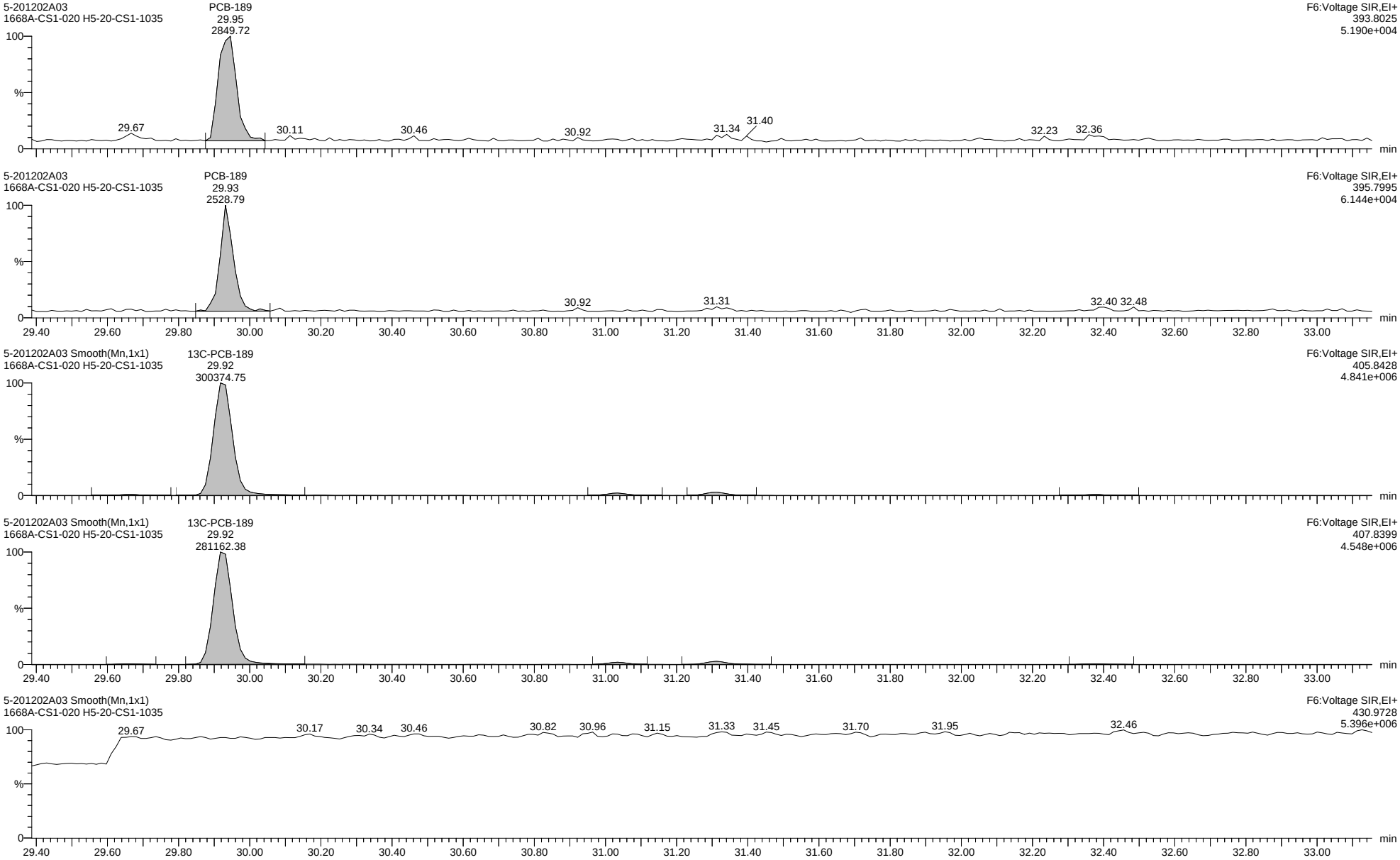

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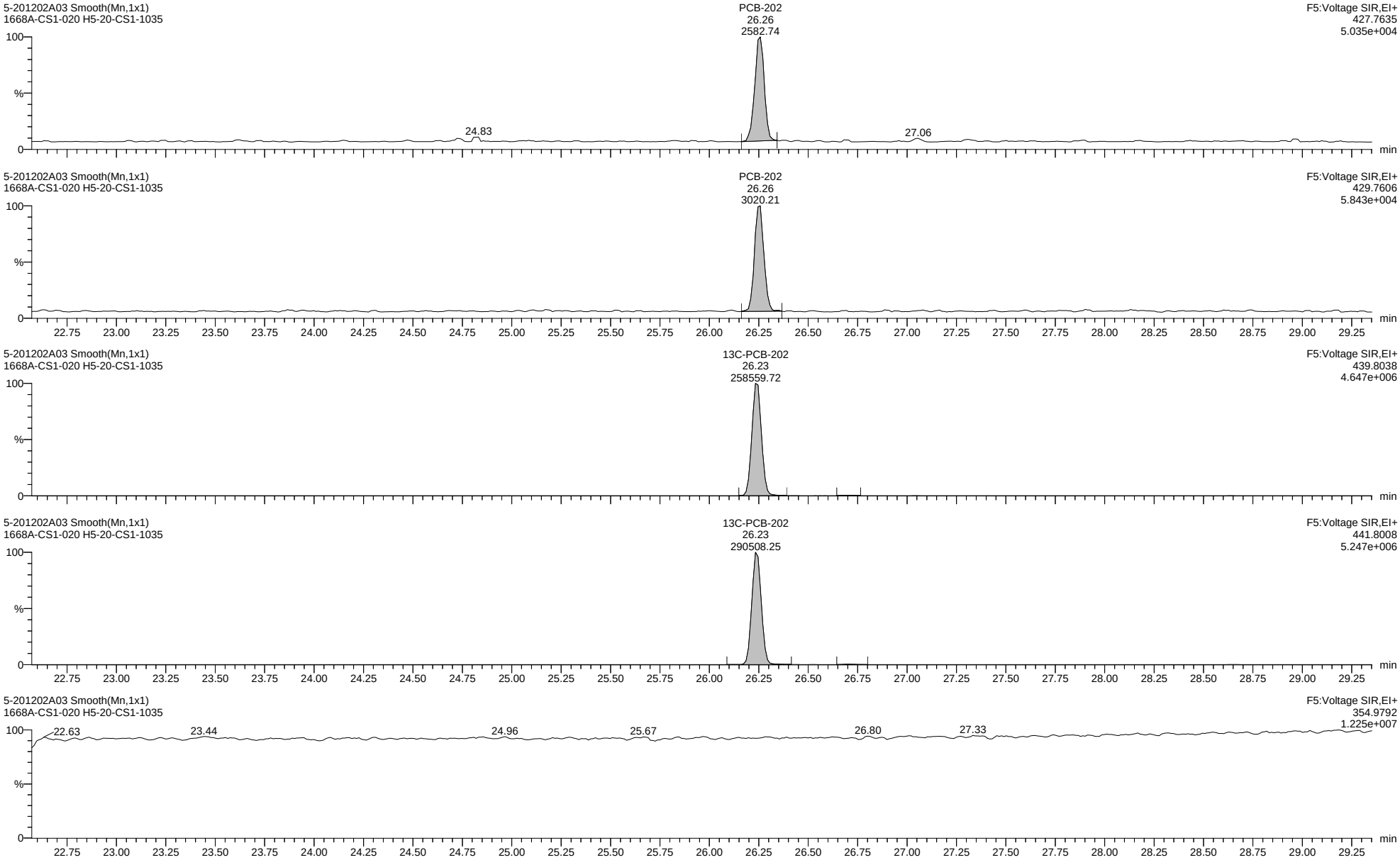

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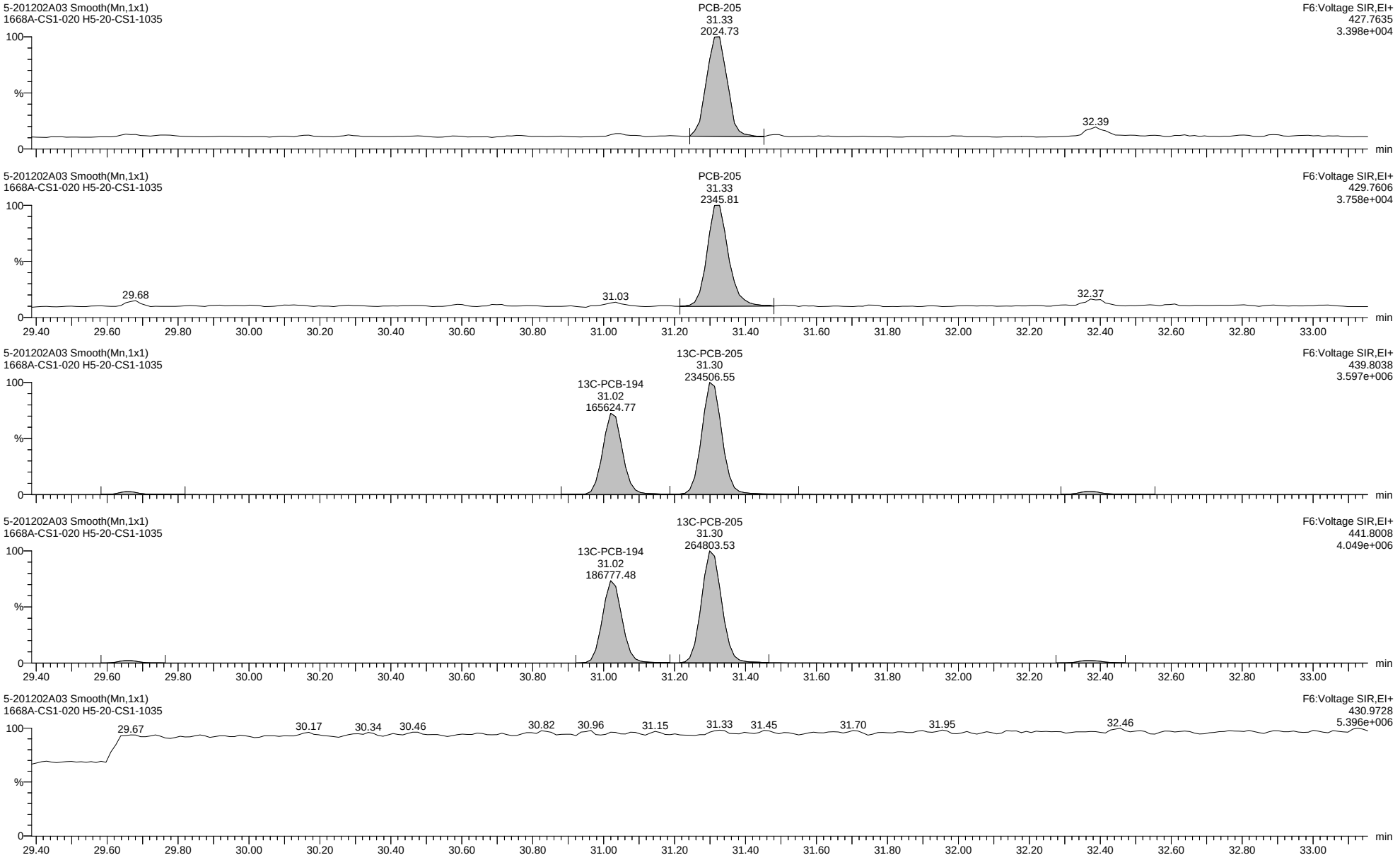

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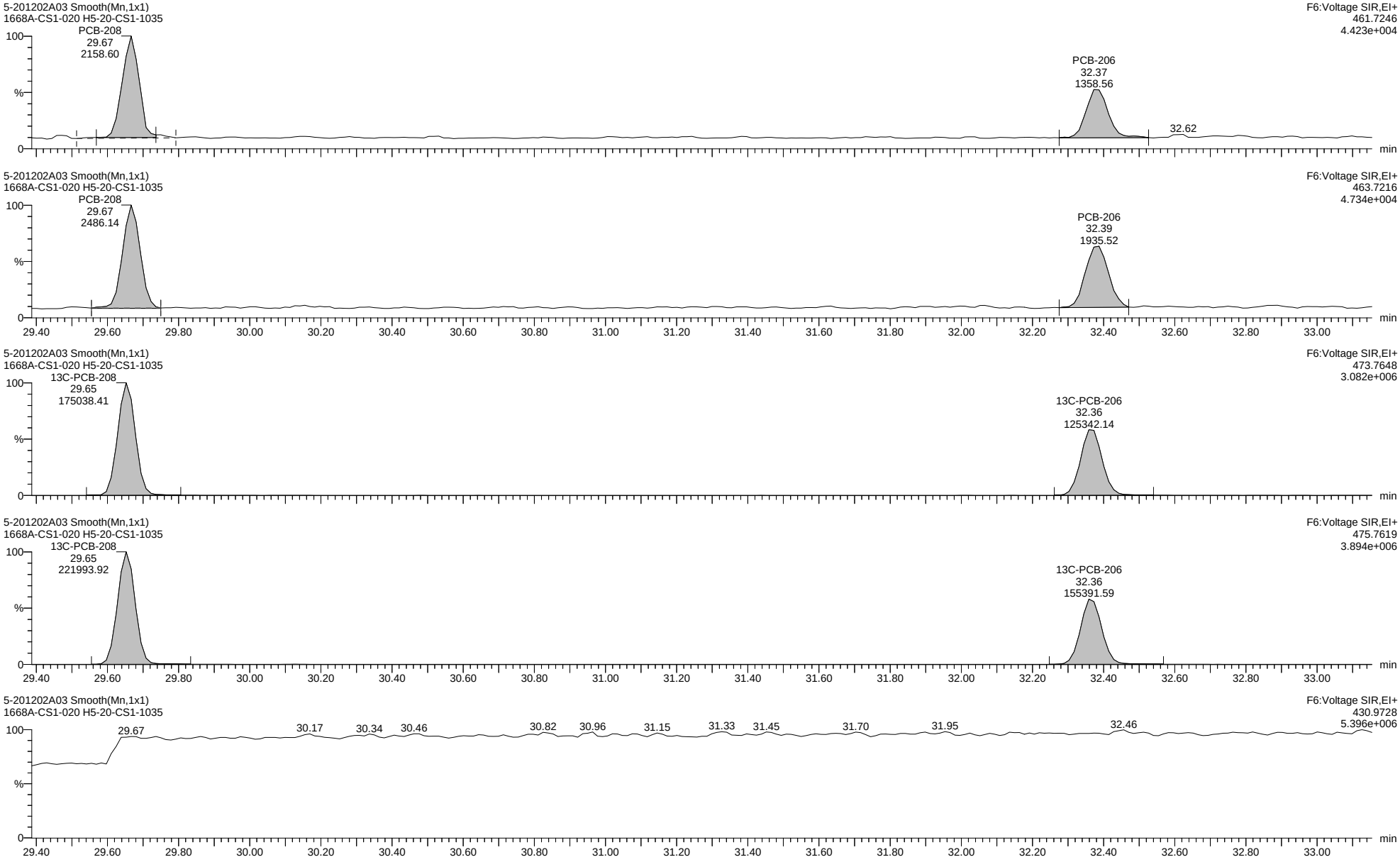

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Printed: Wednesday, April 28, 2021 10:50:51 Eastern Daylight Time

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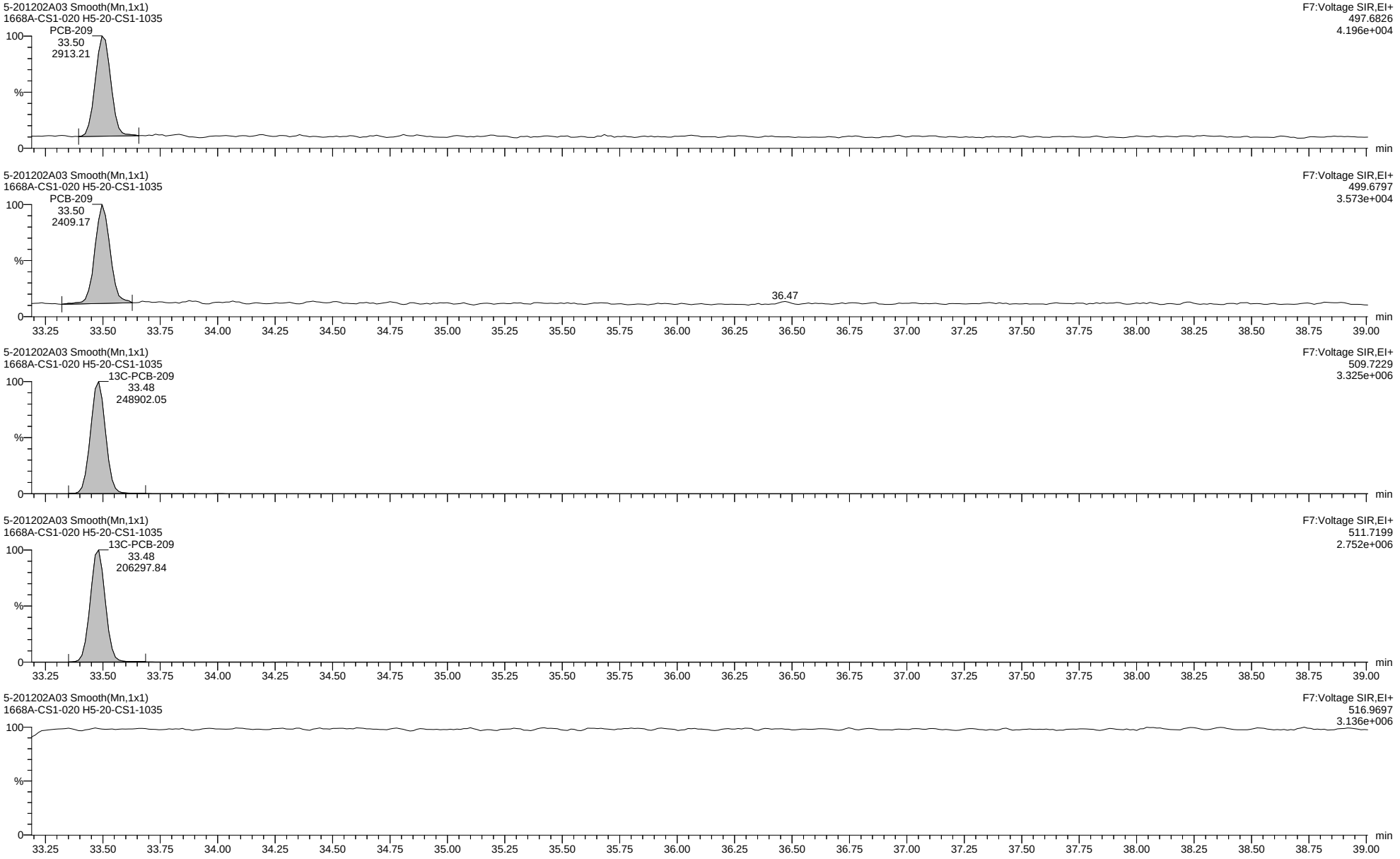

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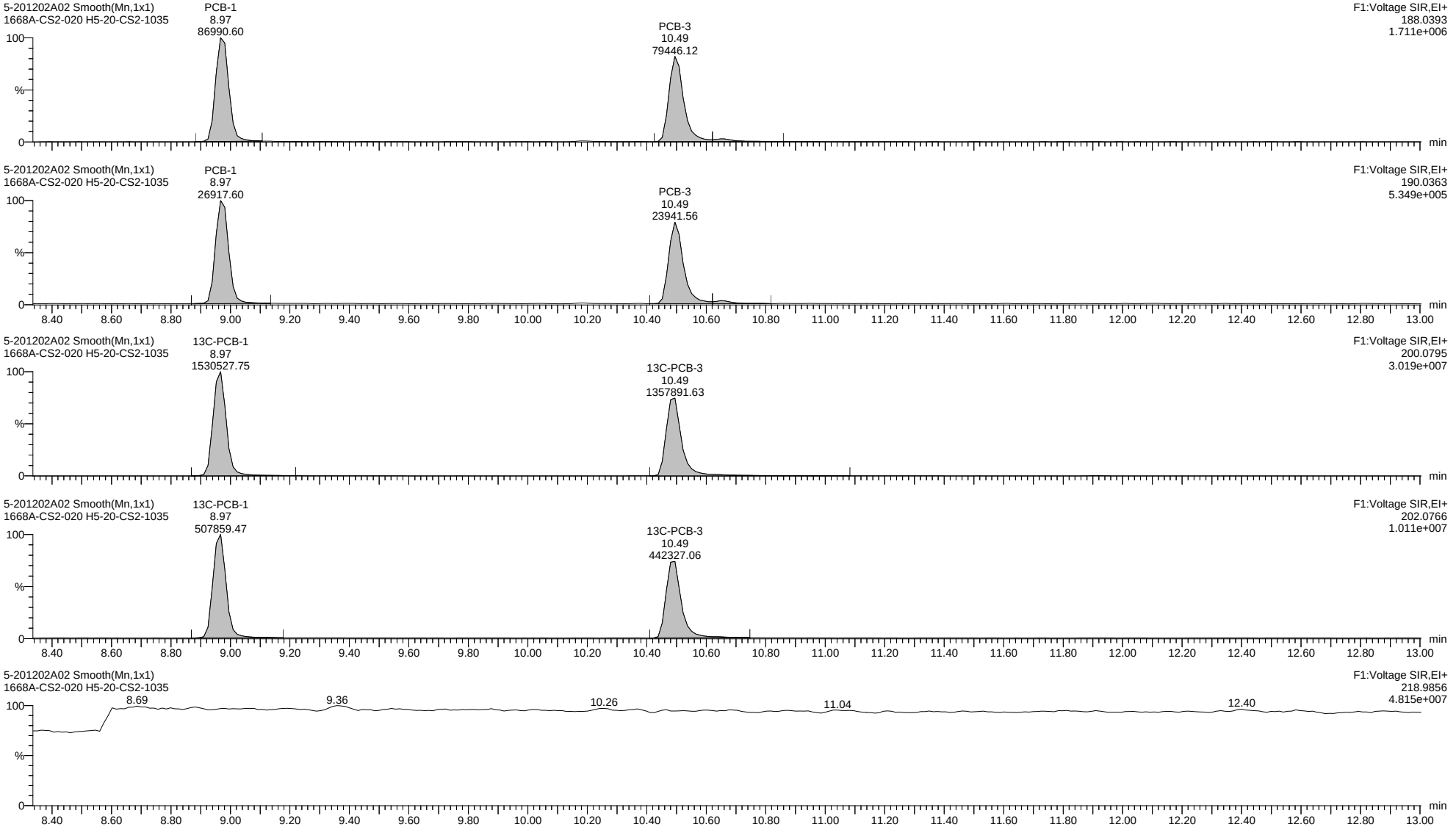

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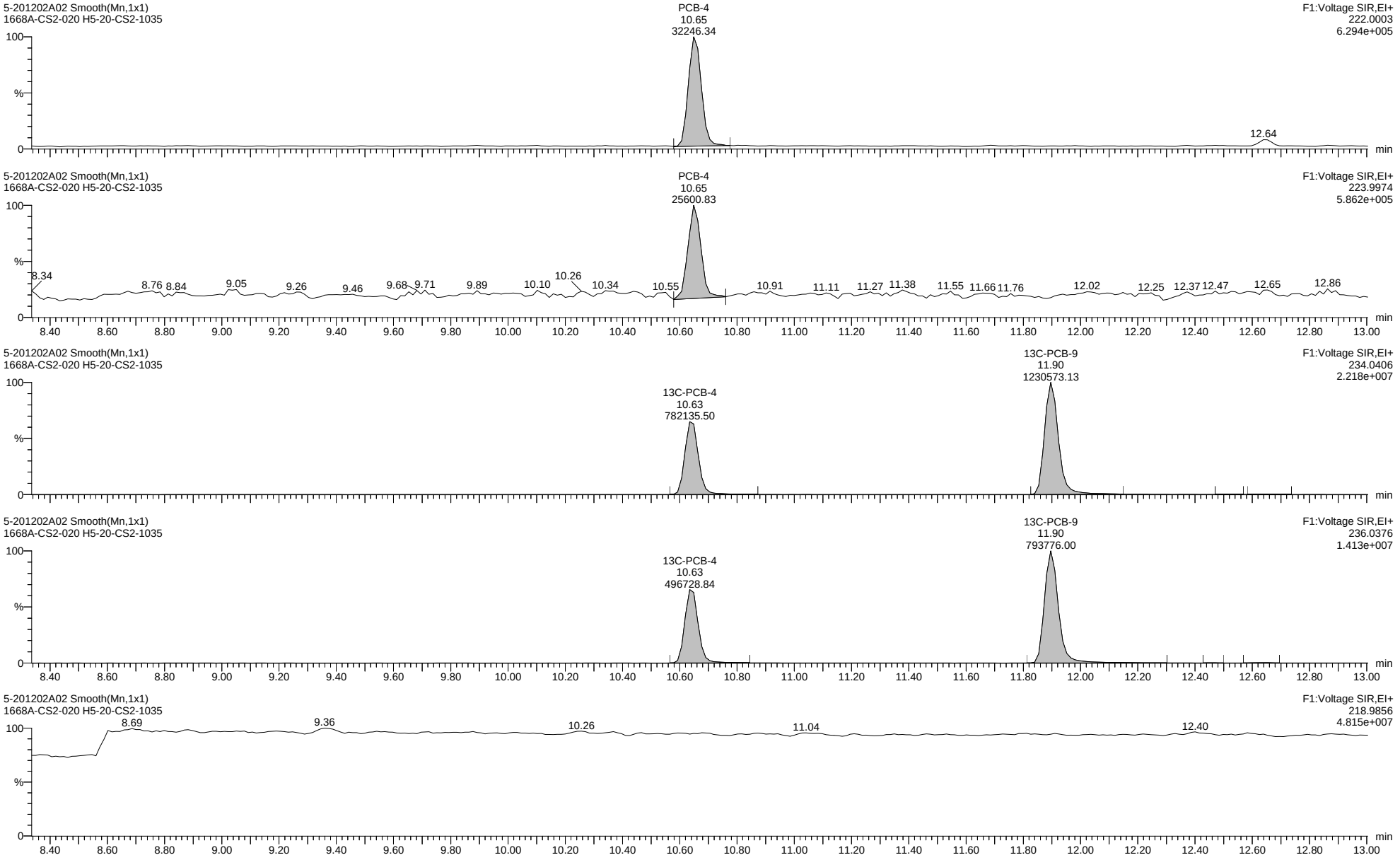

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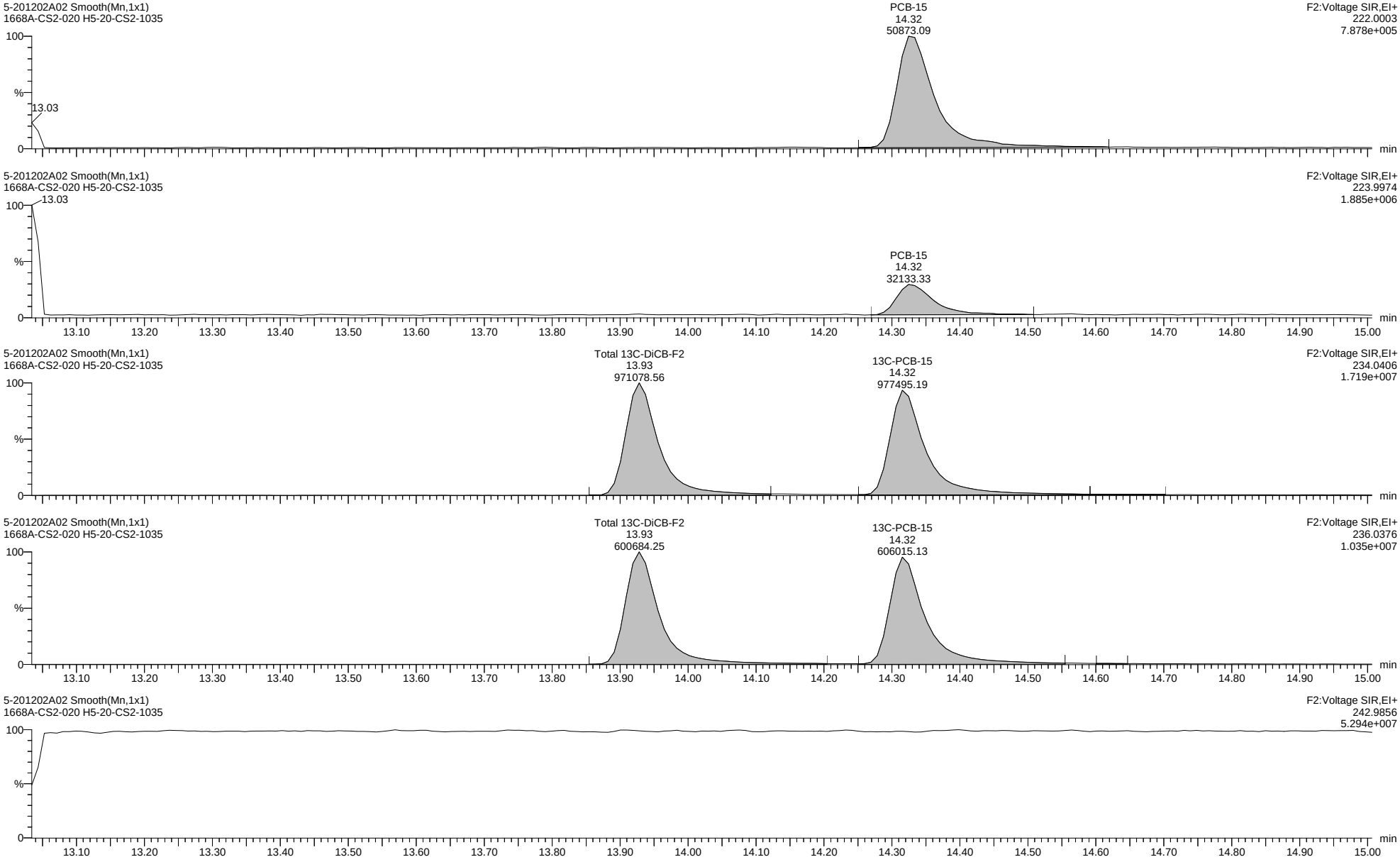

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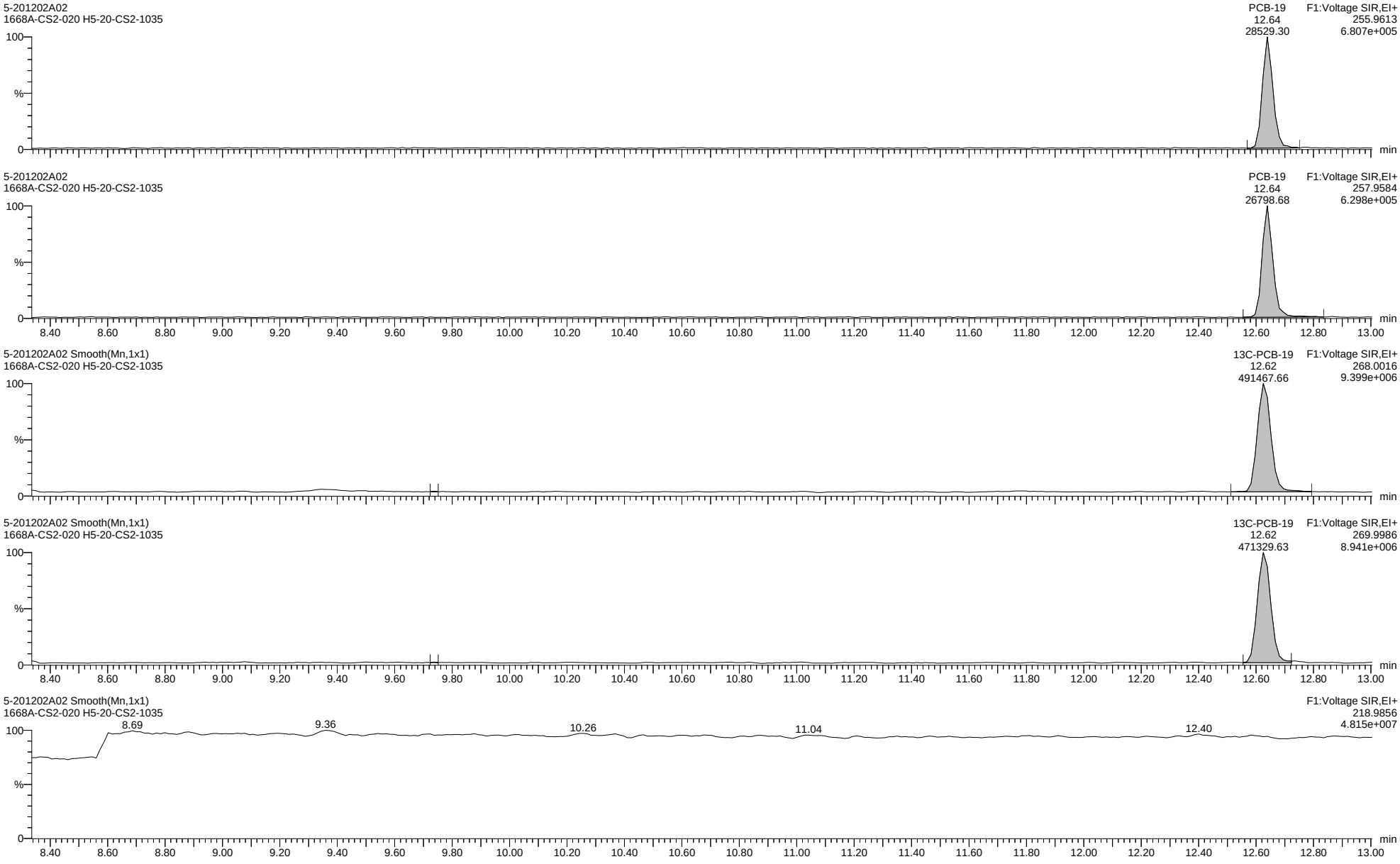

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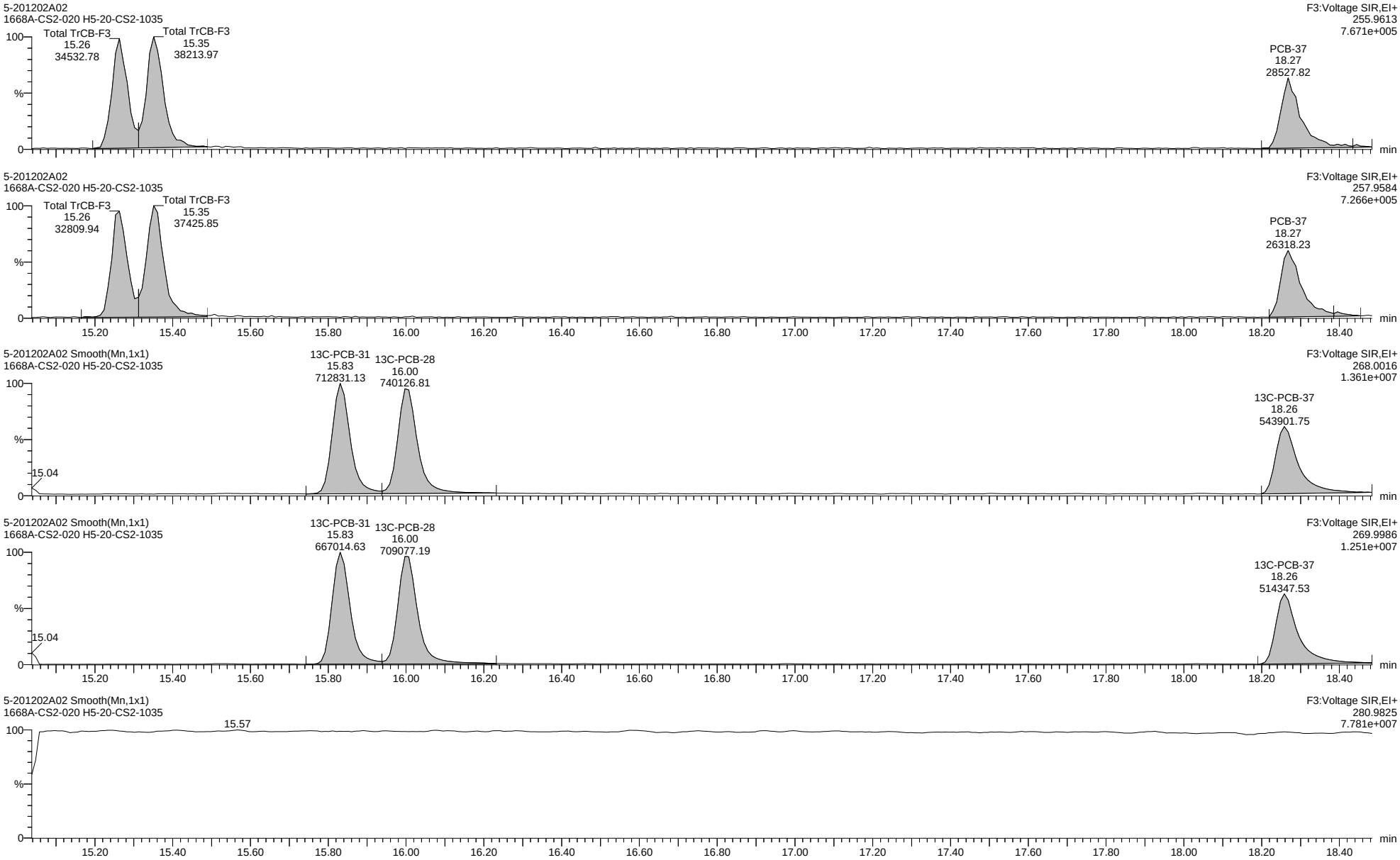

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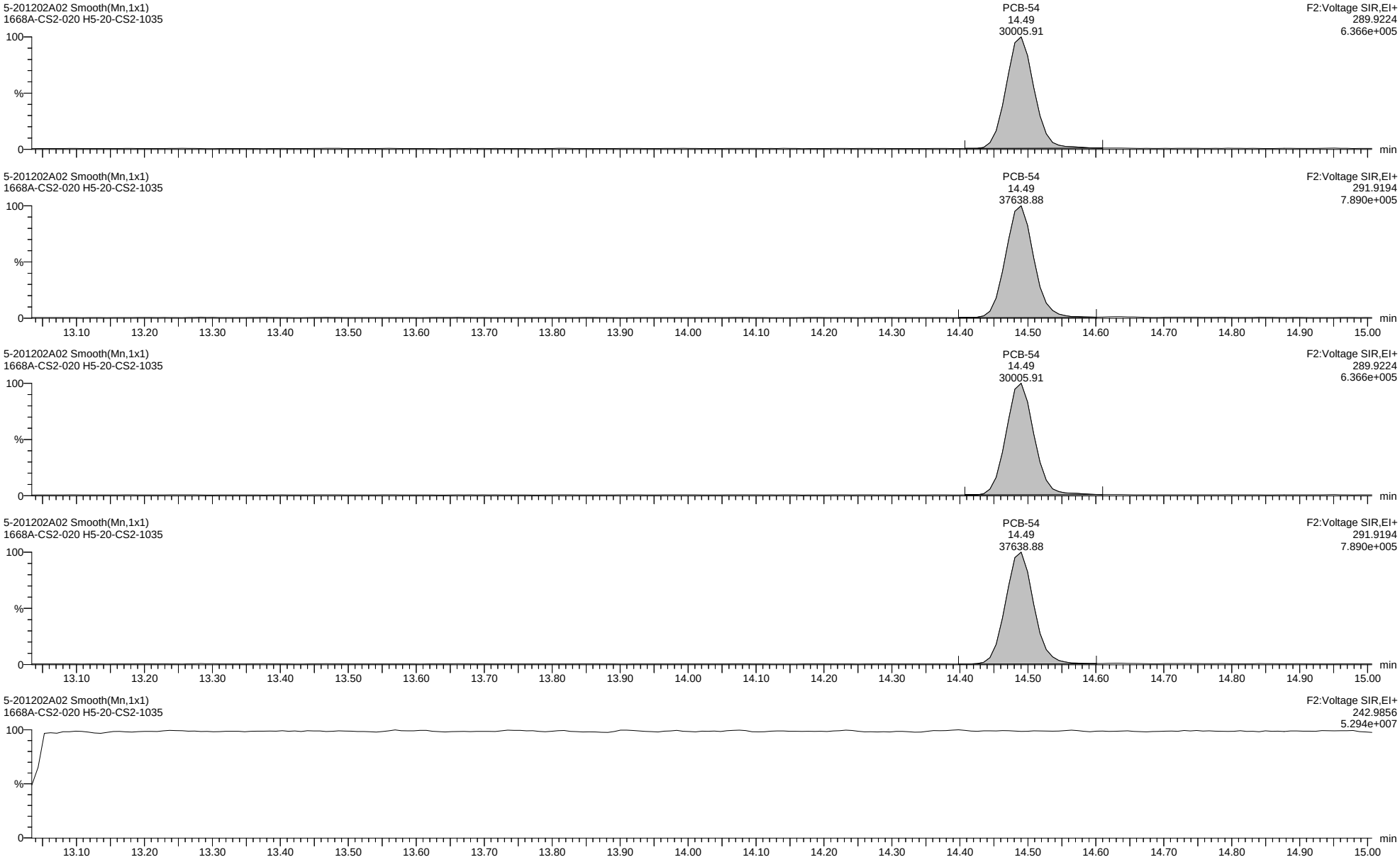

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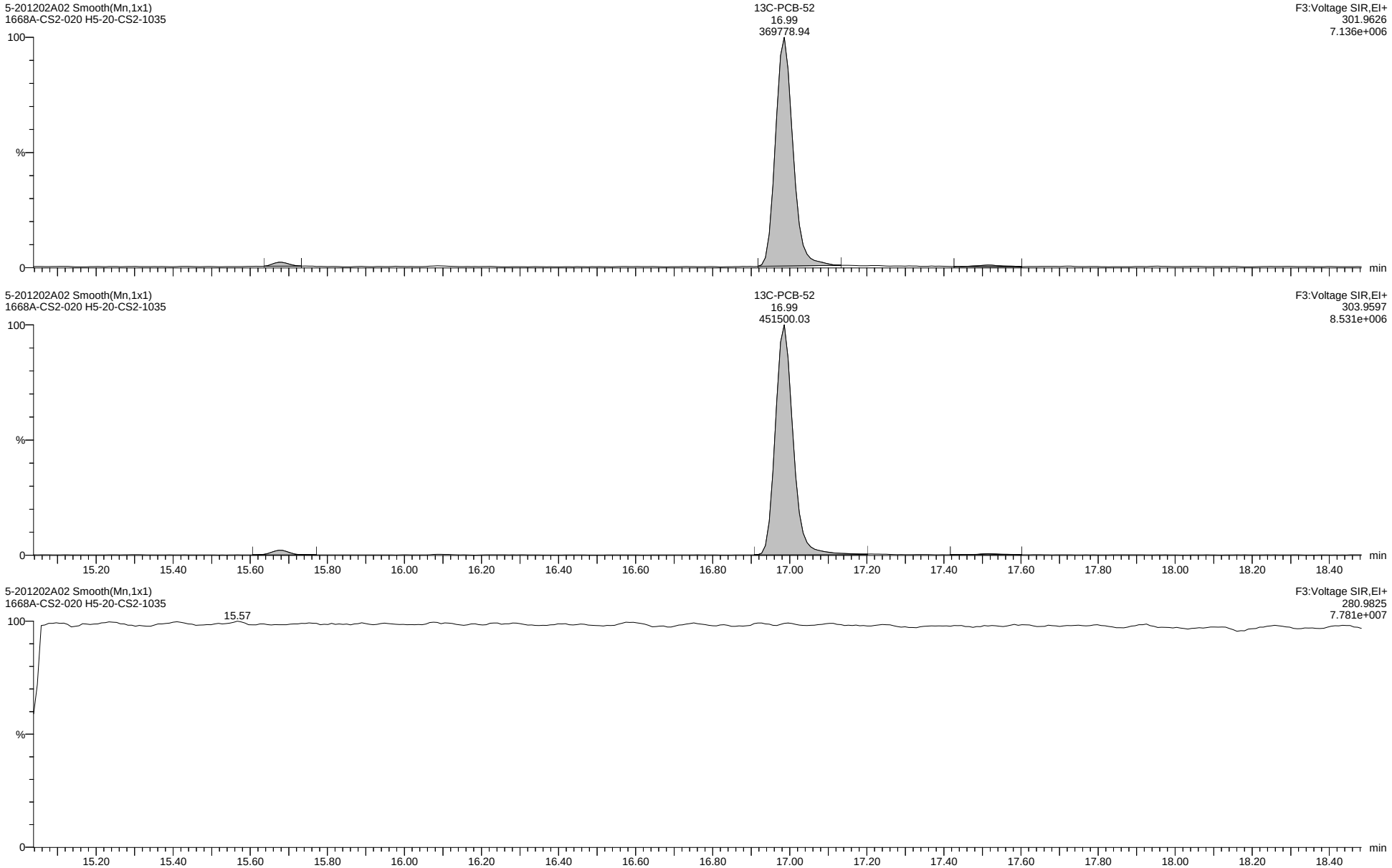

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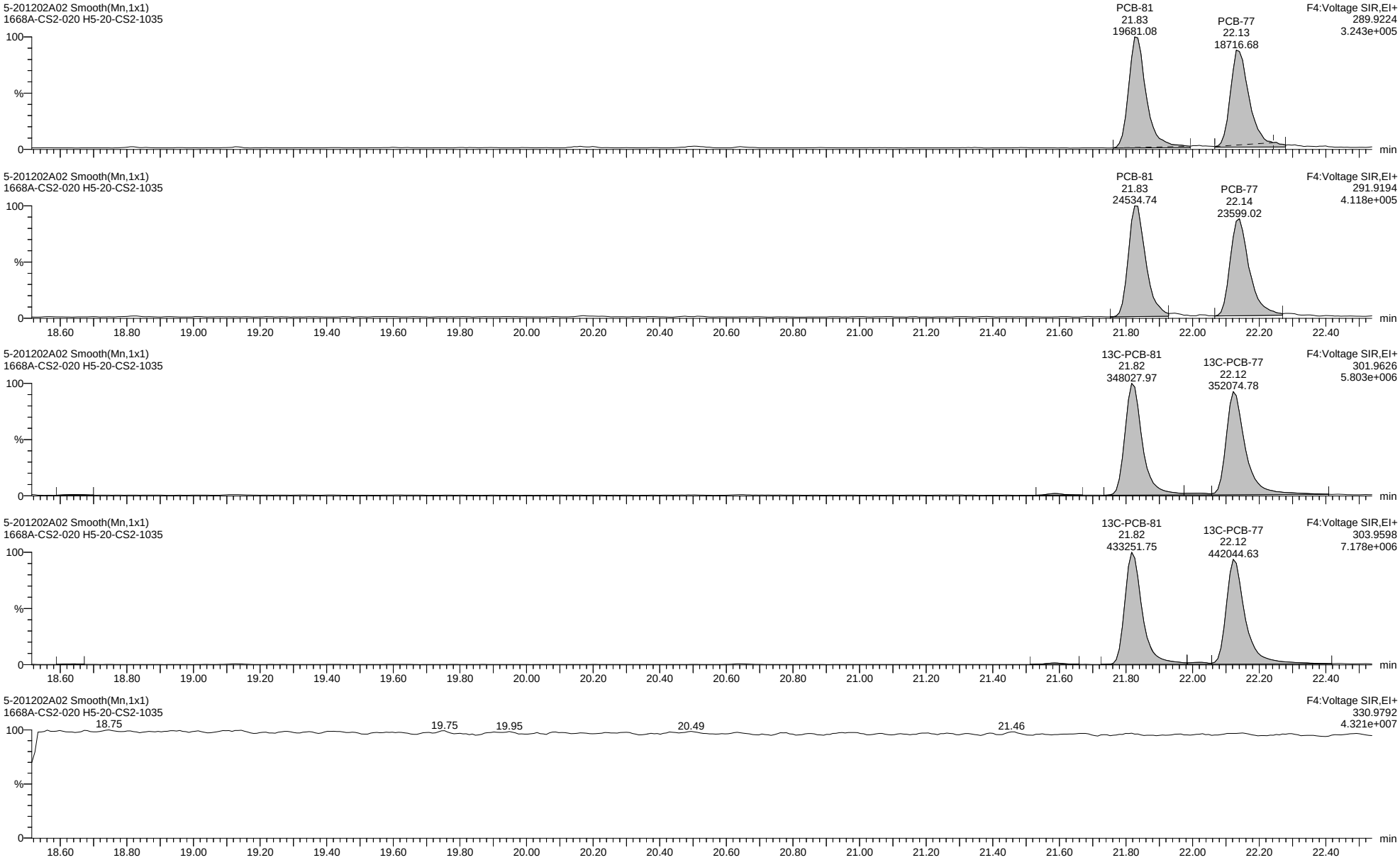

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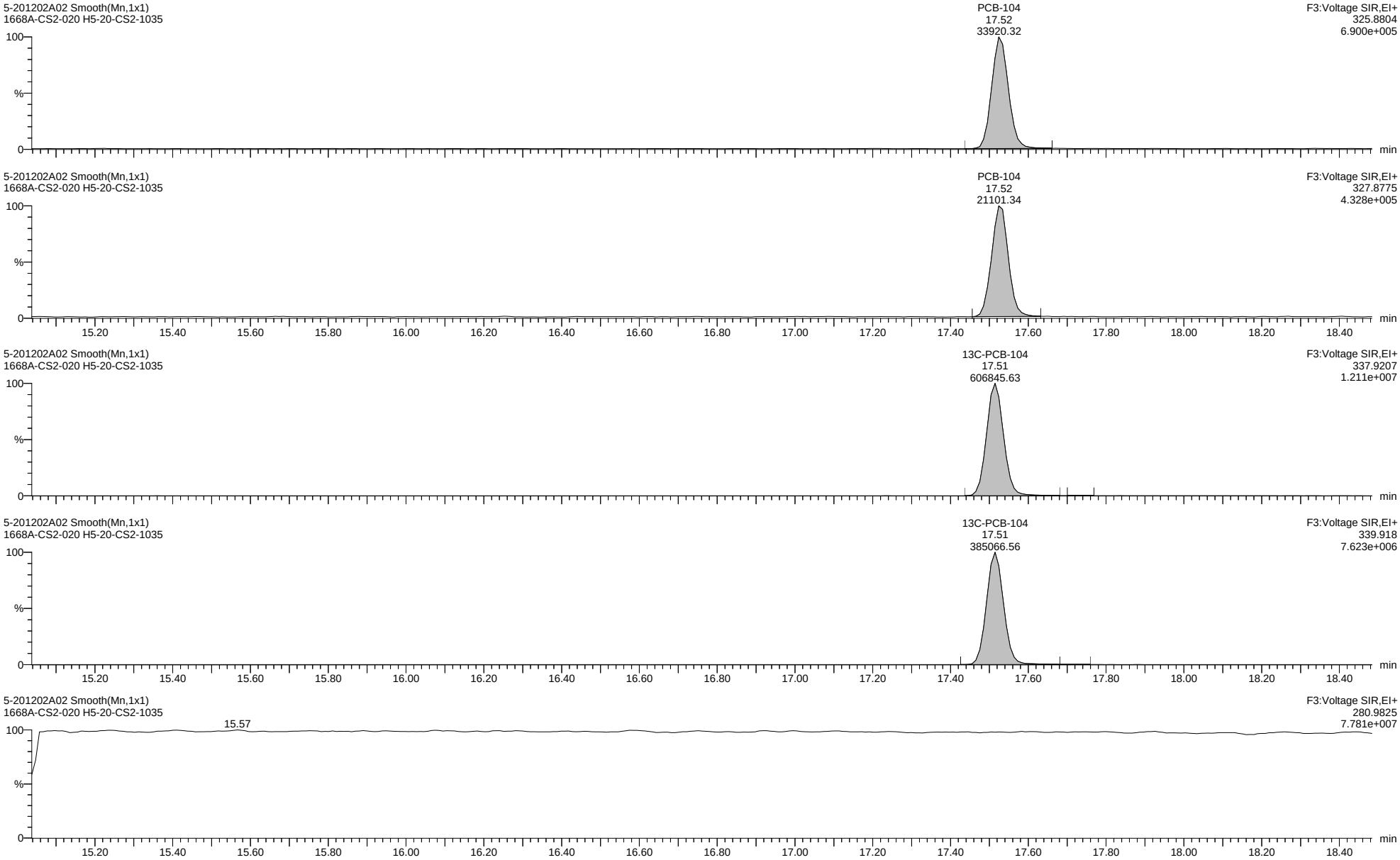

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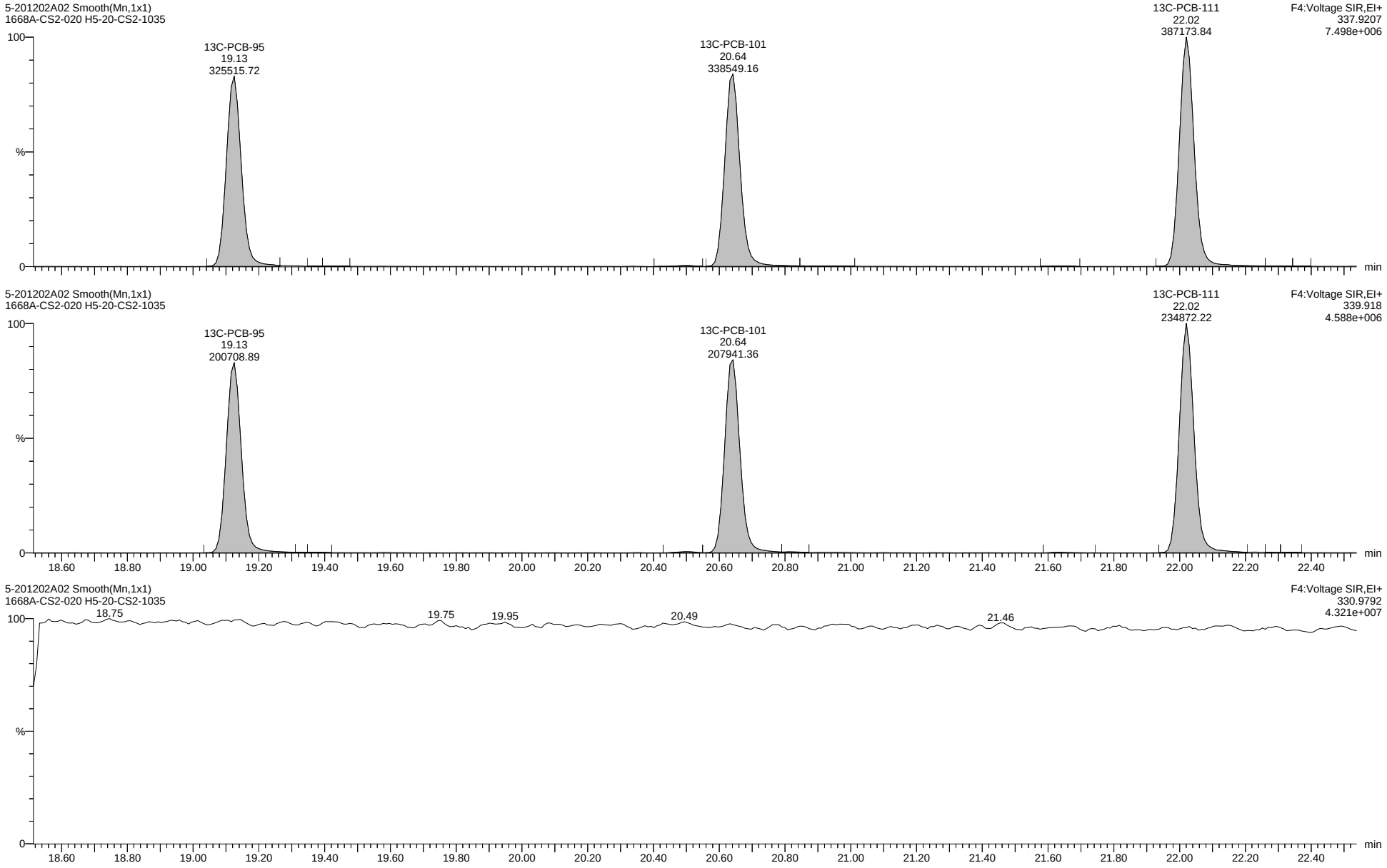

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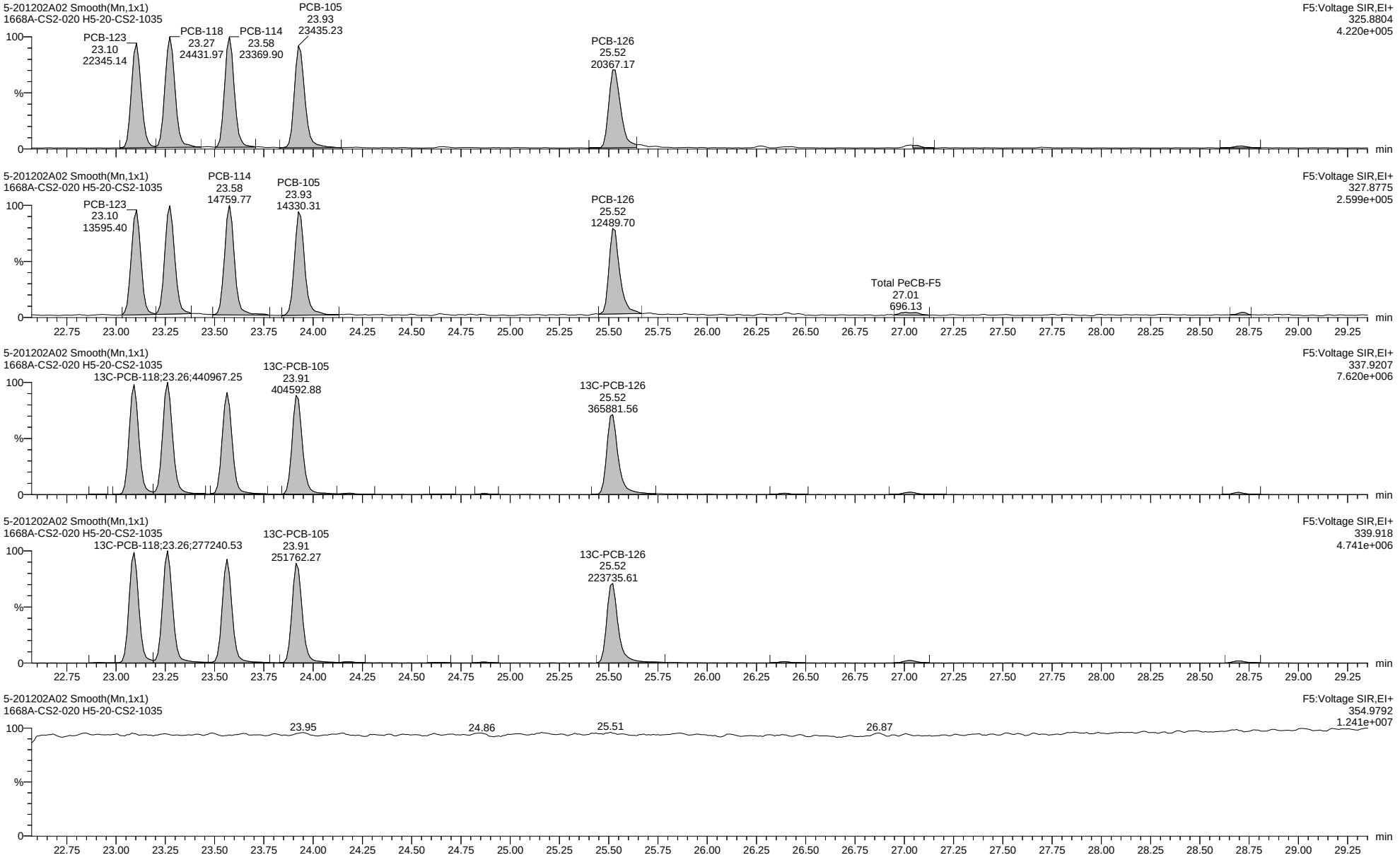

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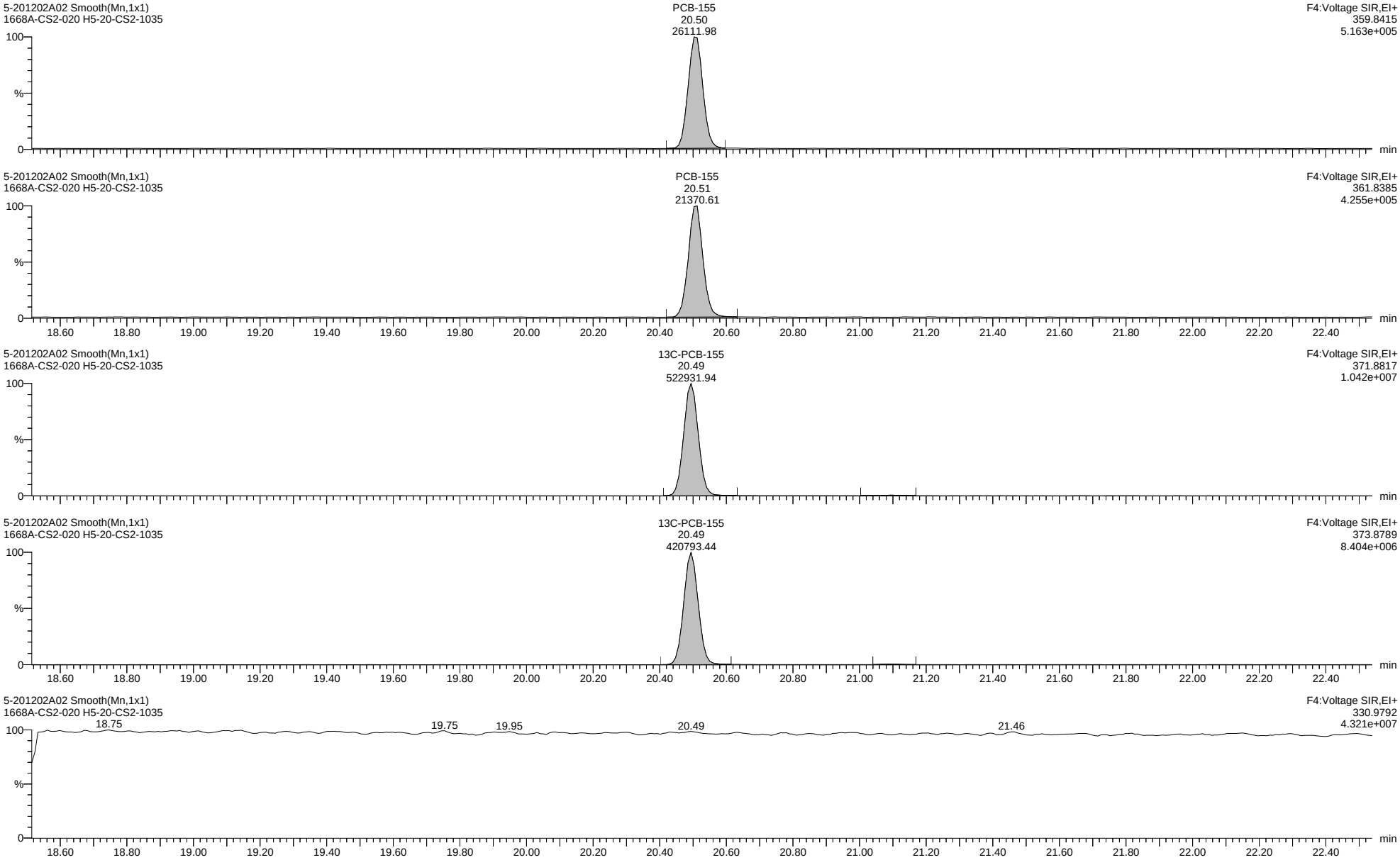

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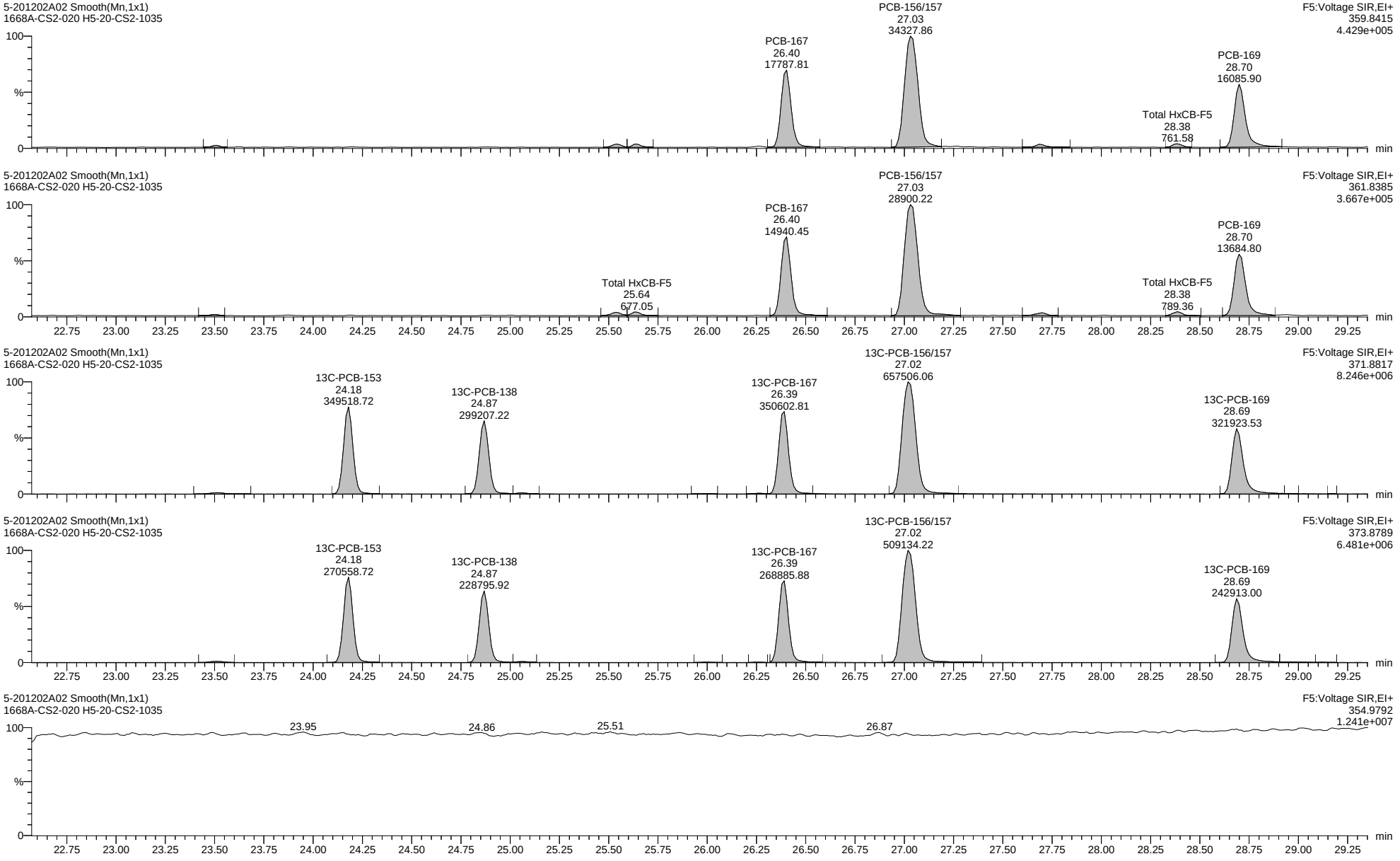

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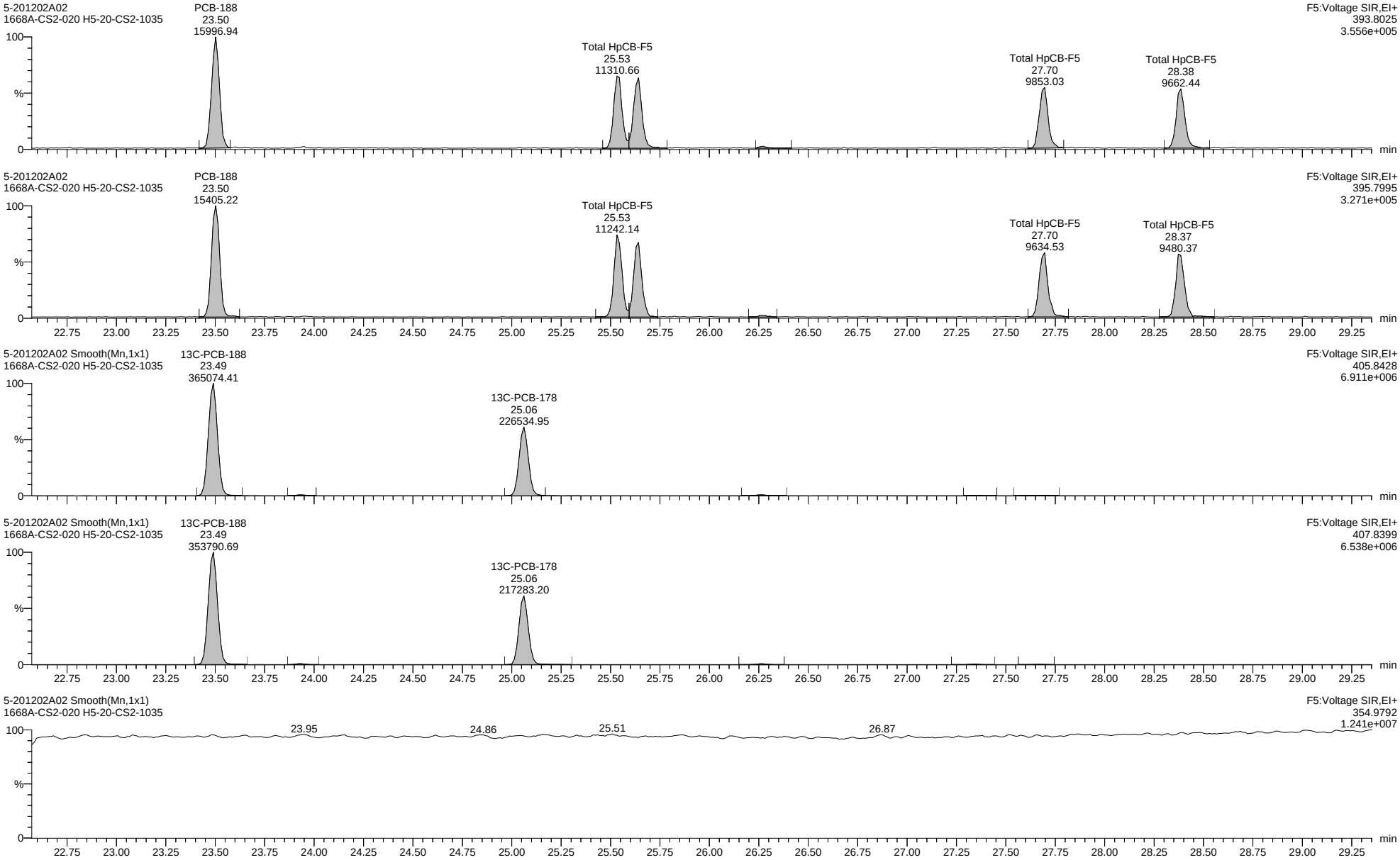

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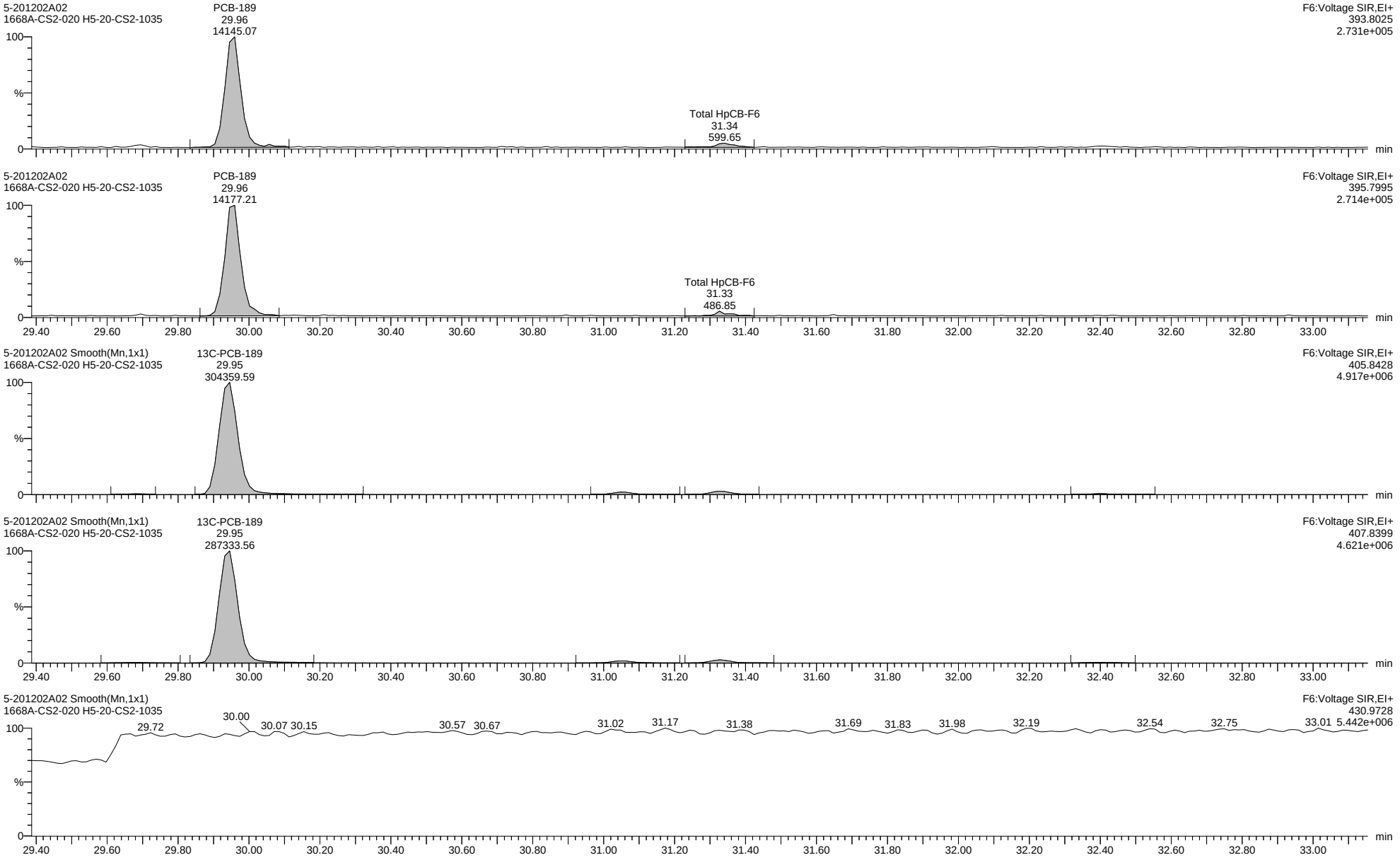

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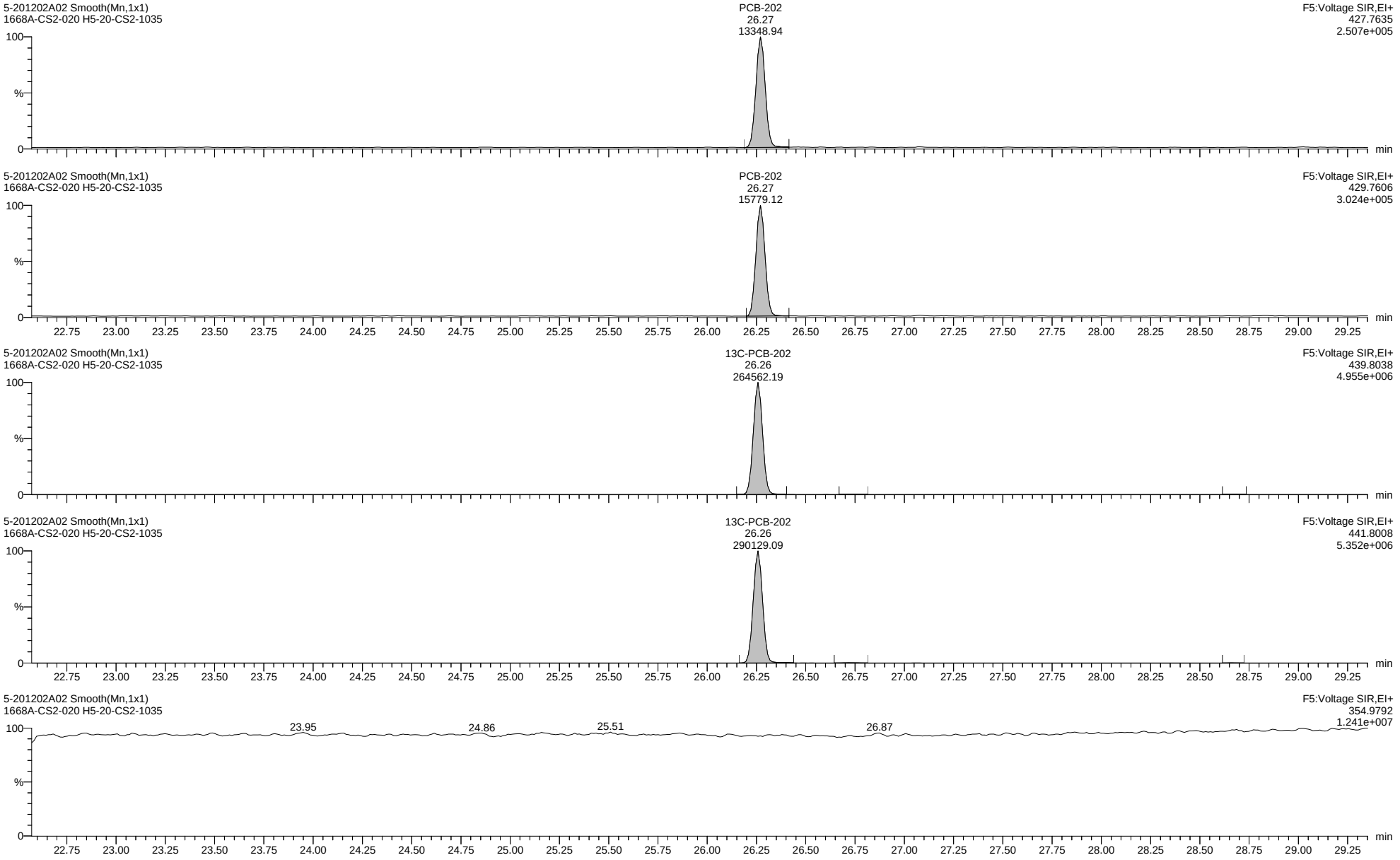

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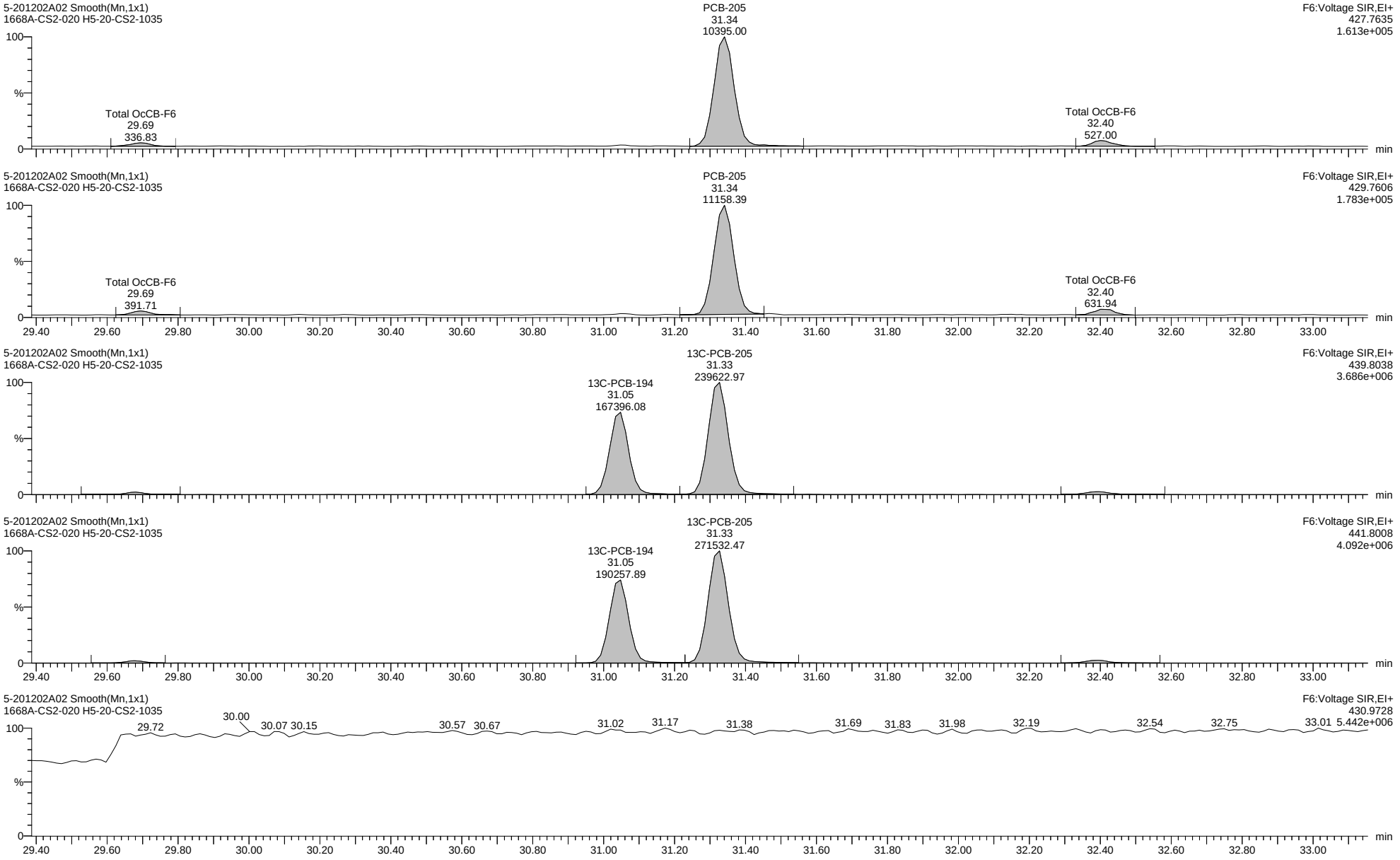

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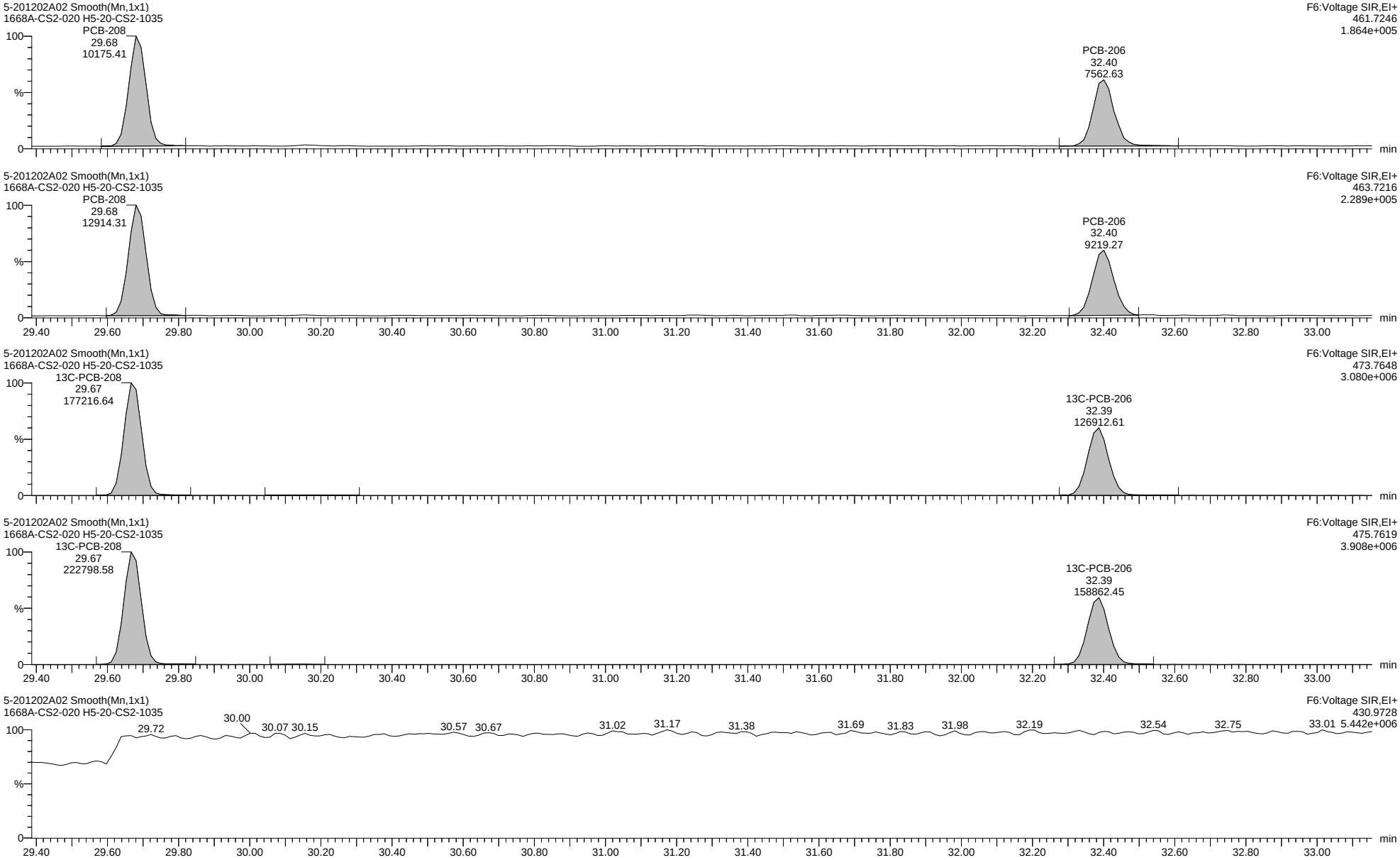

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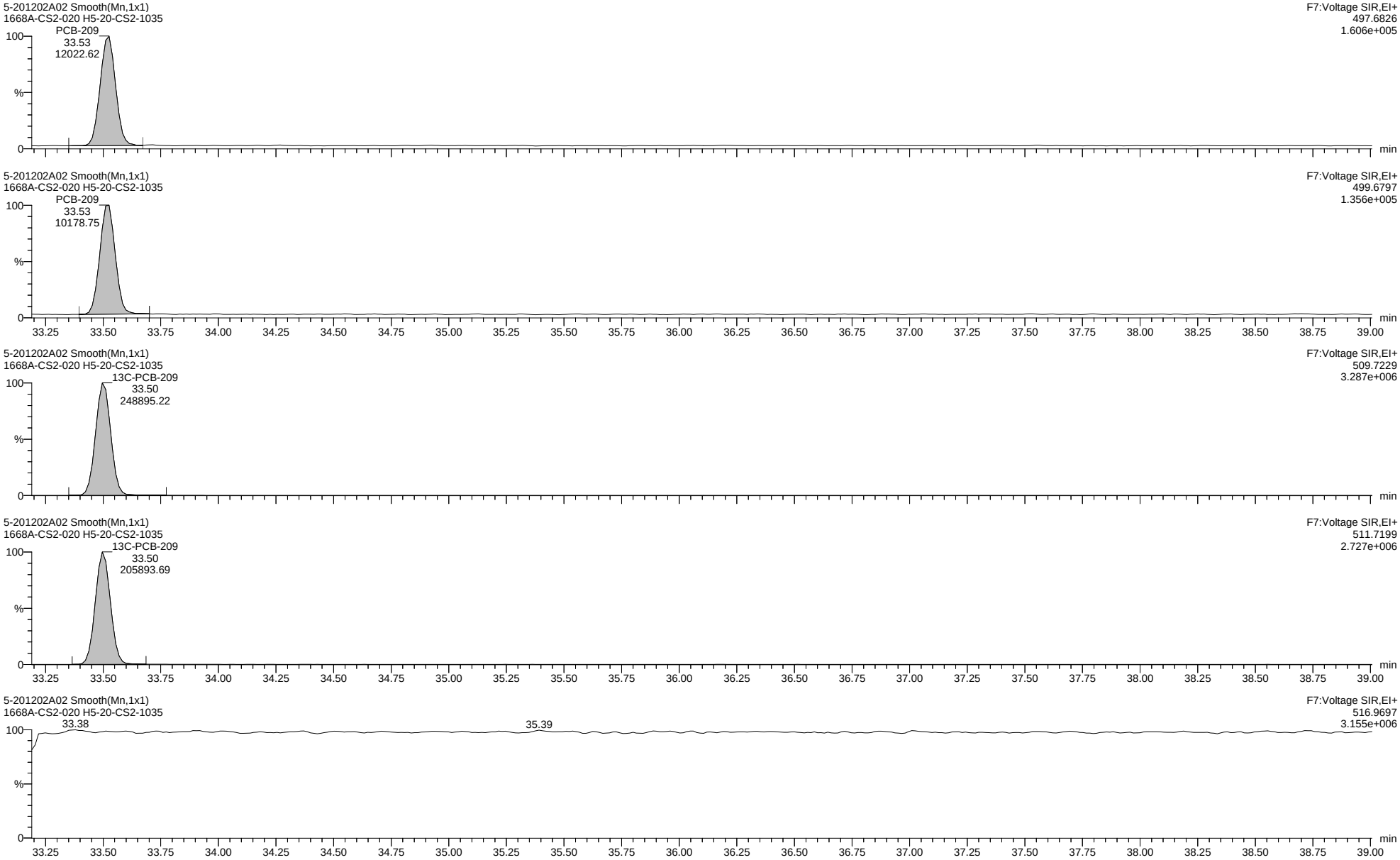

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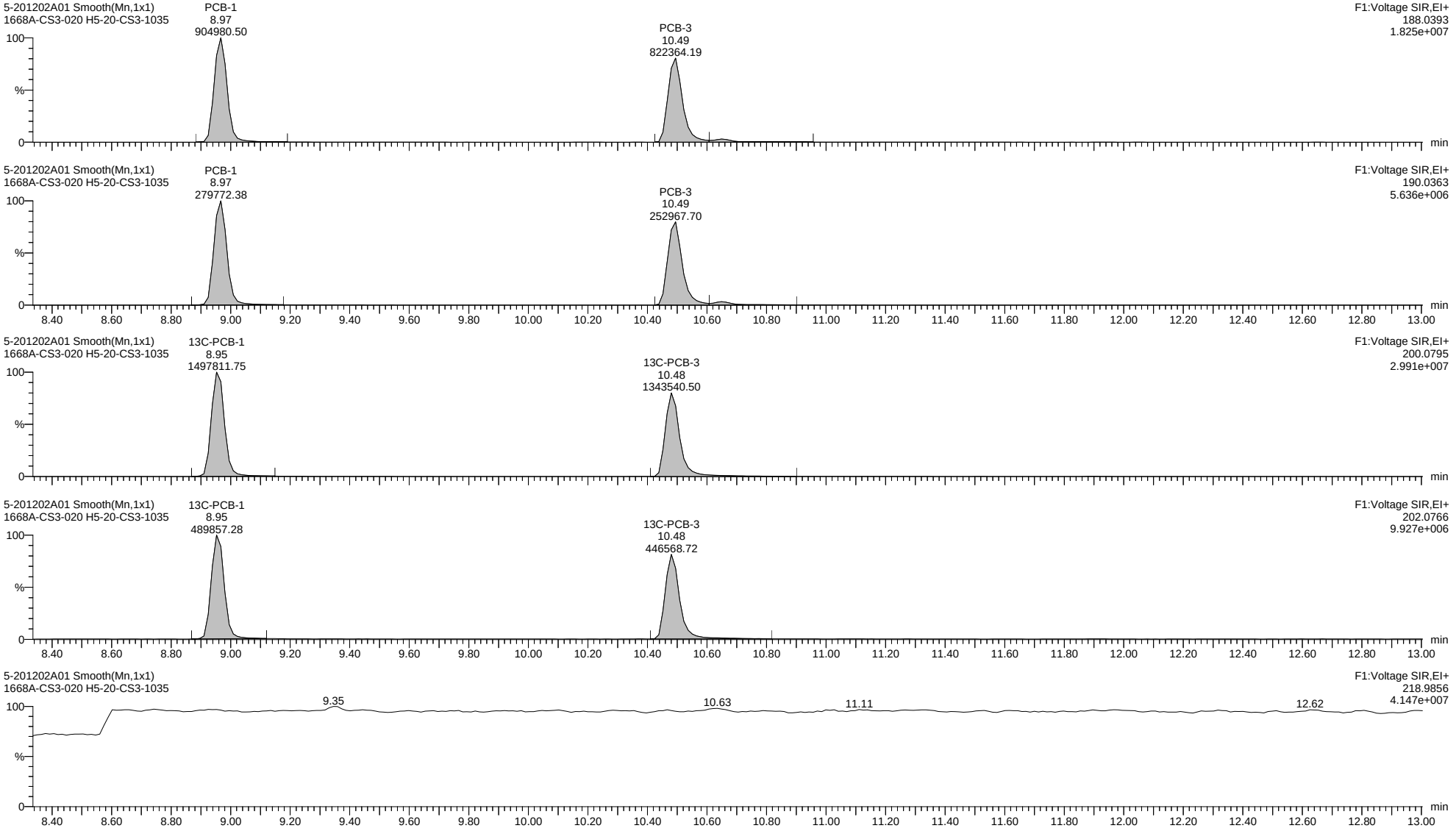
Name: 5-201202A01, Date: 02-Dec-2020, Time: 09:37:44, ID: H5-20-CS3-1035, Description: 1668A-CS3-020, Vial: Tray1:1



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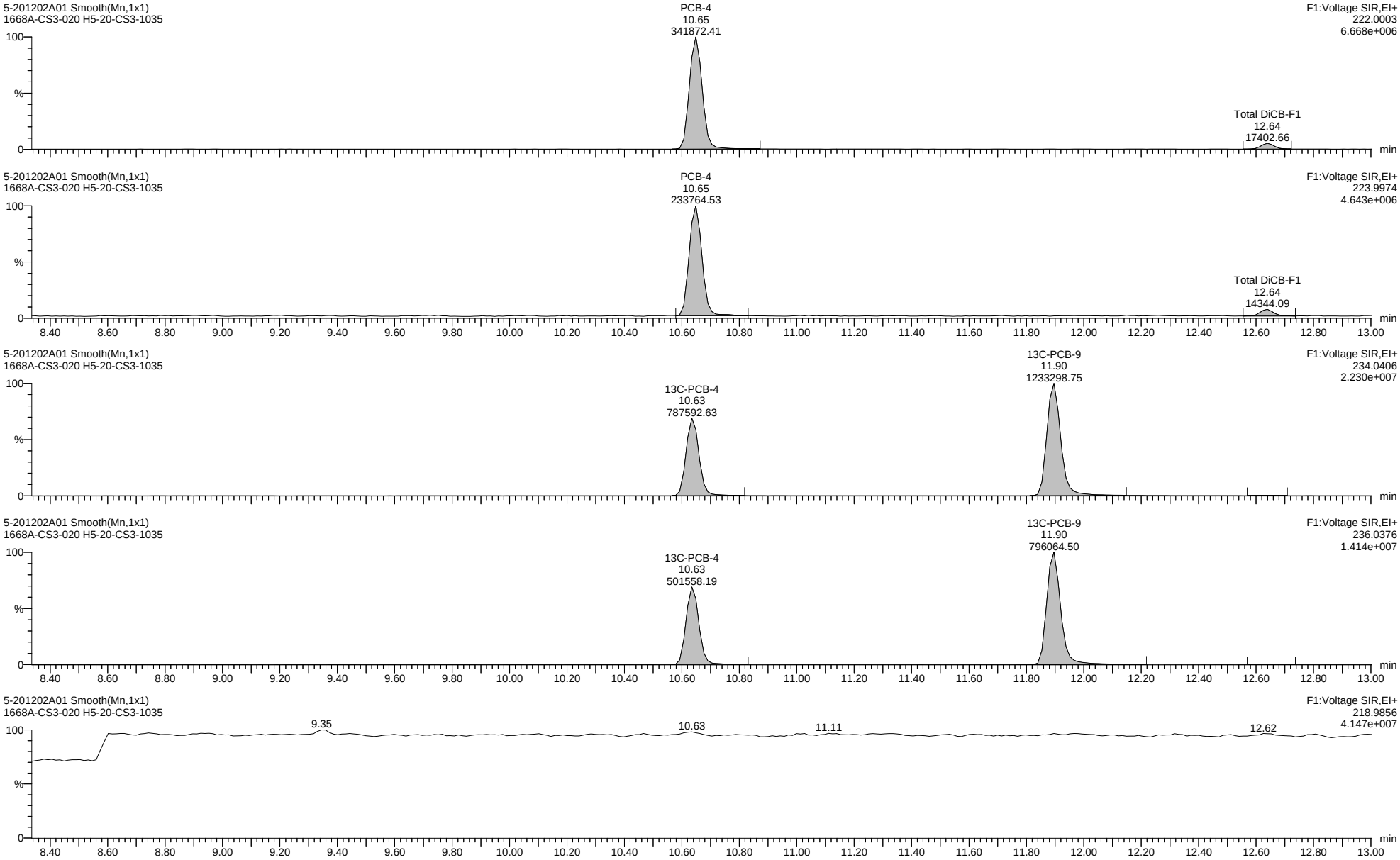

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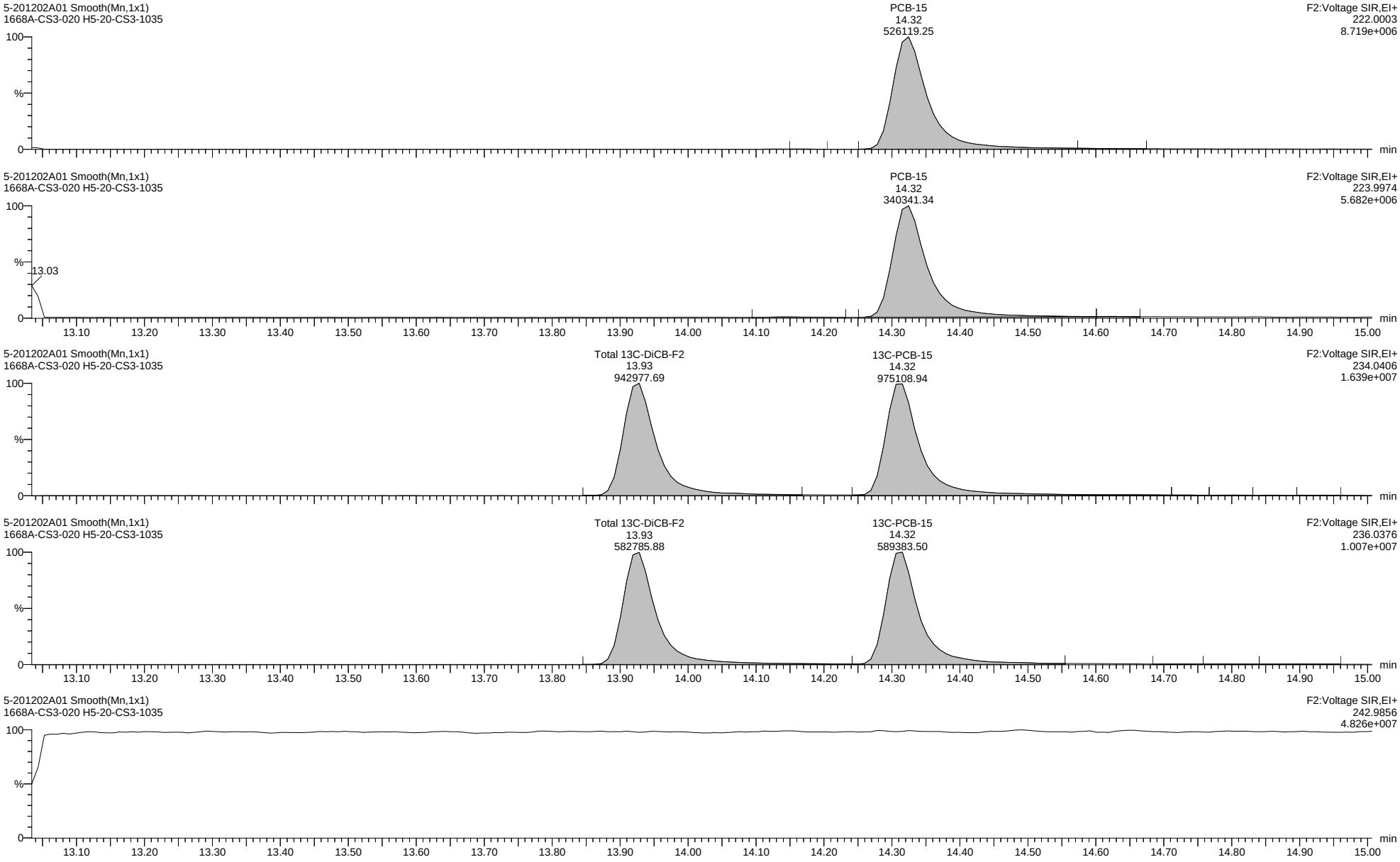

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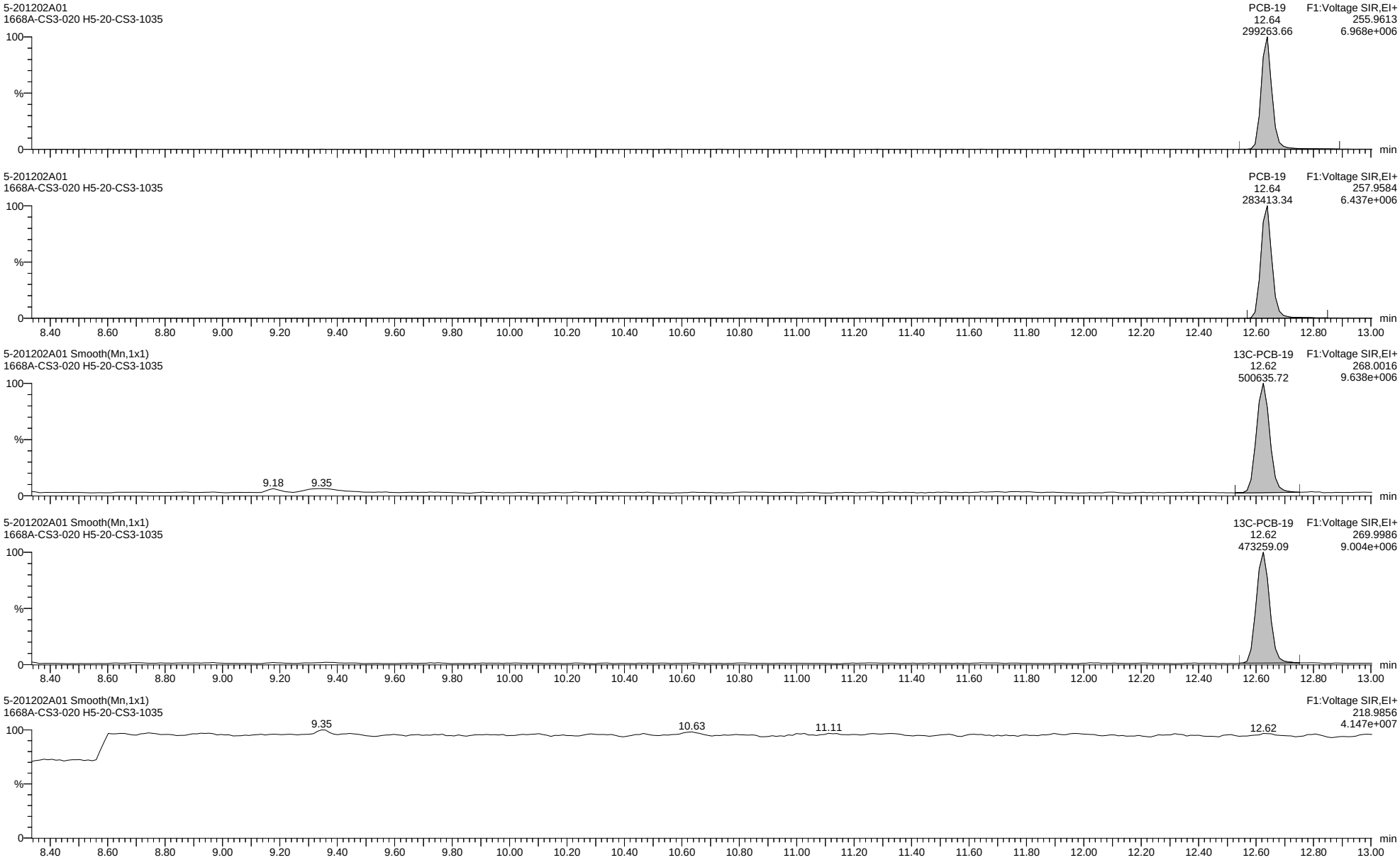

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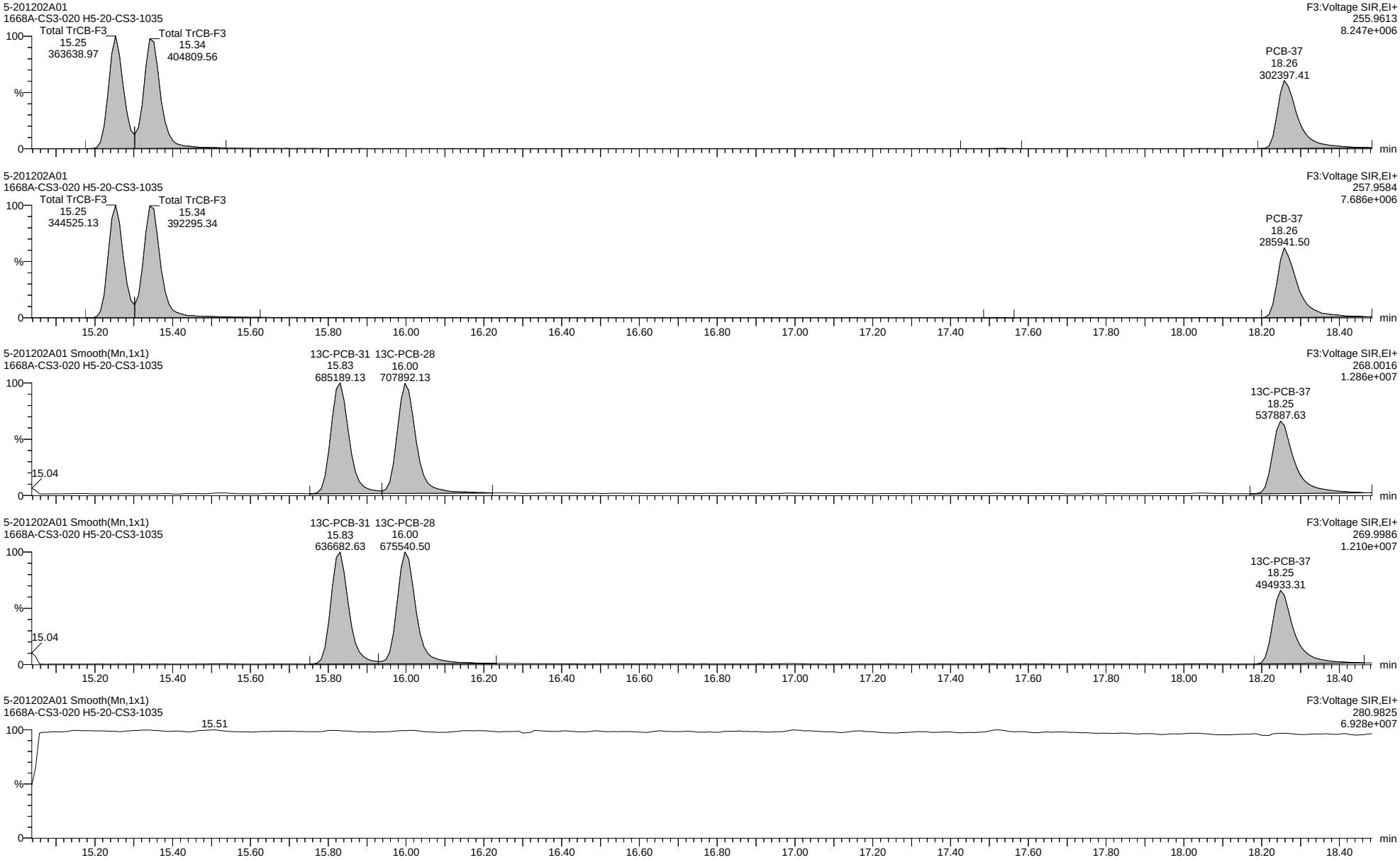

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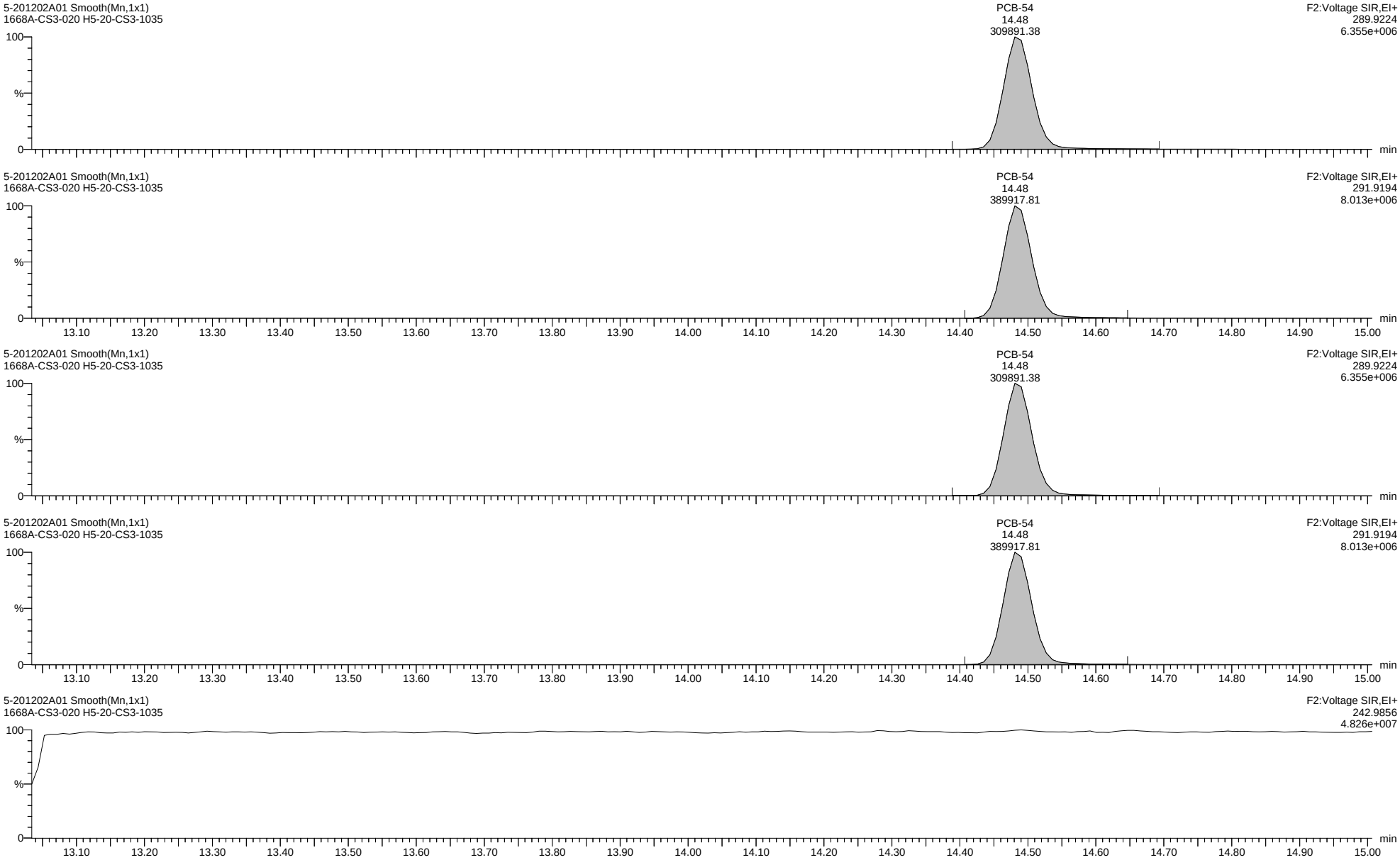

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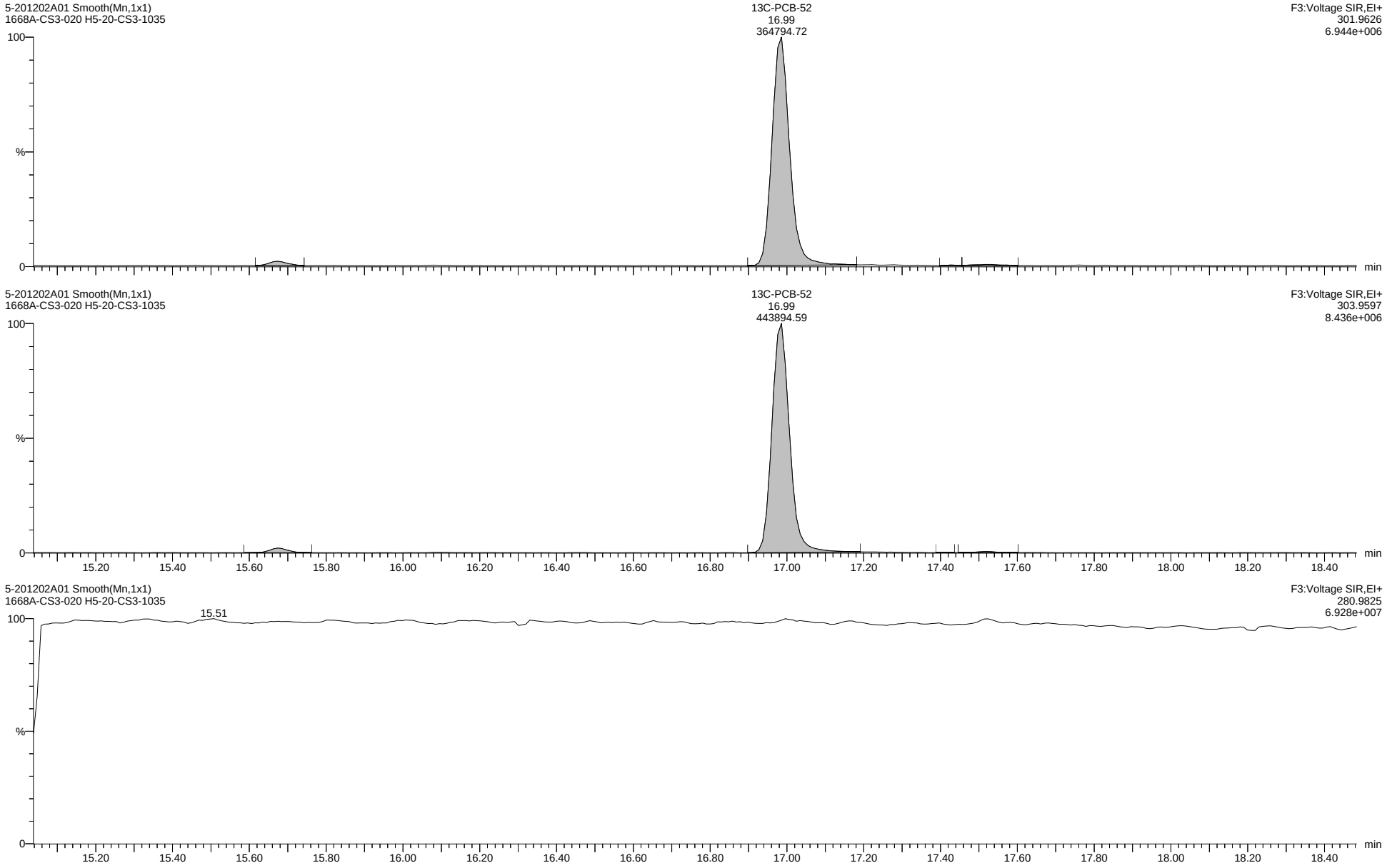

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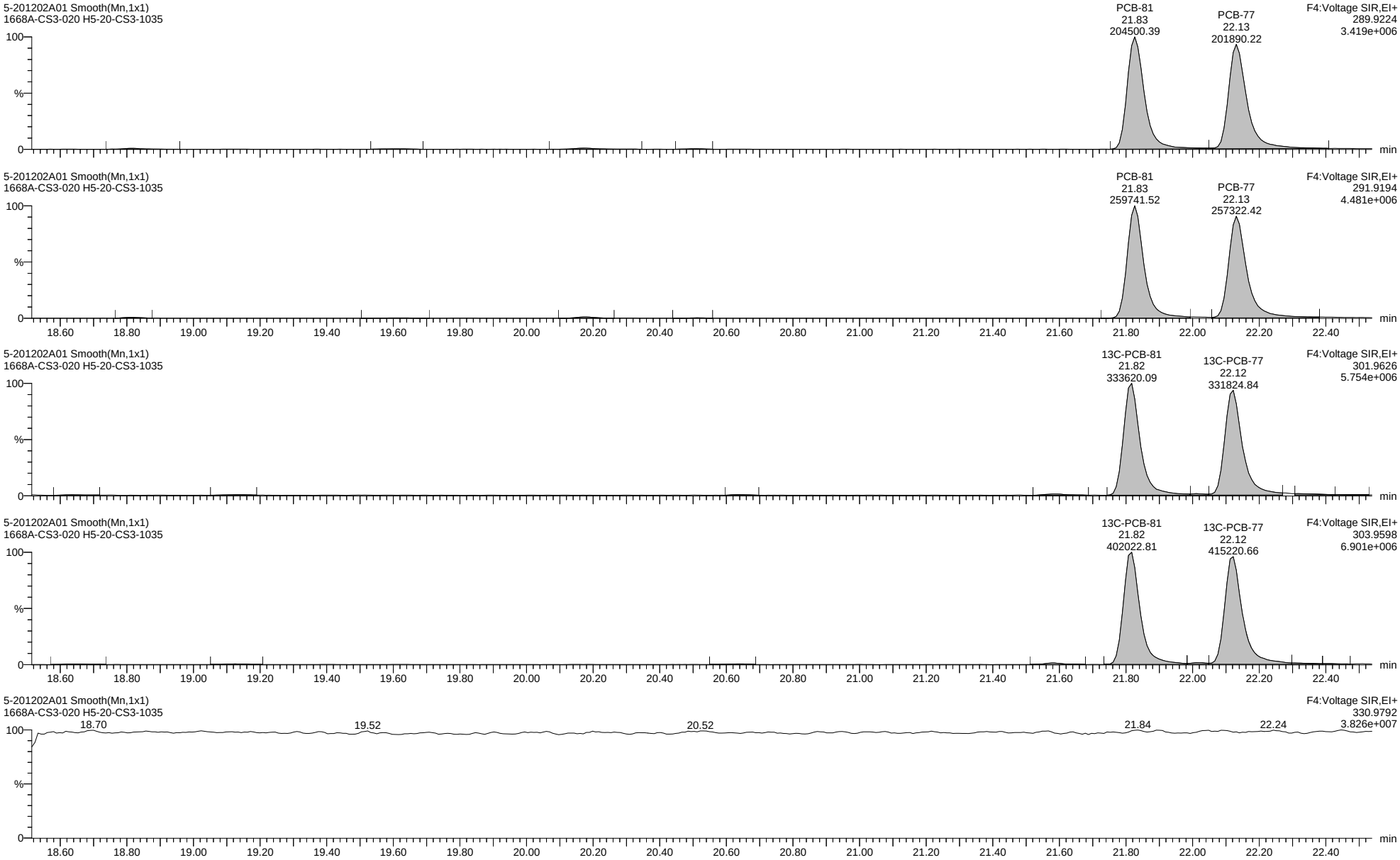

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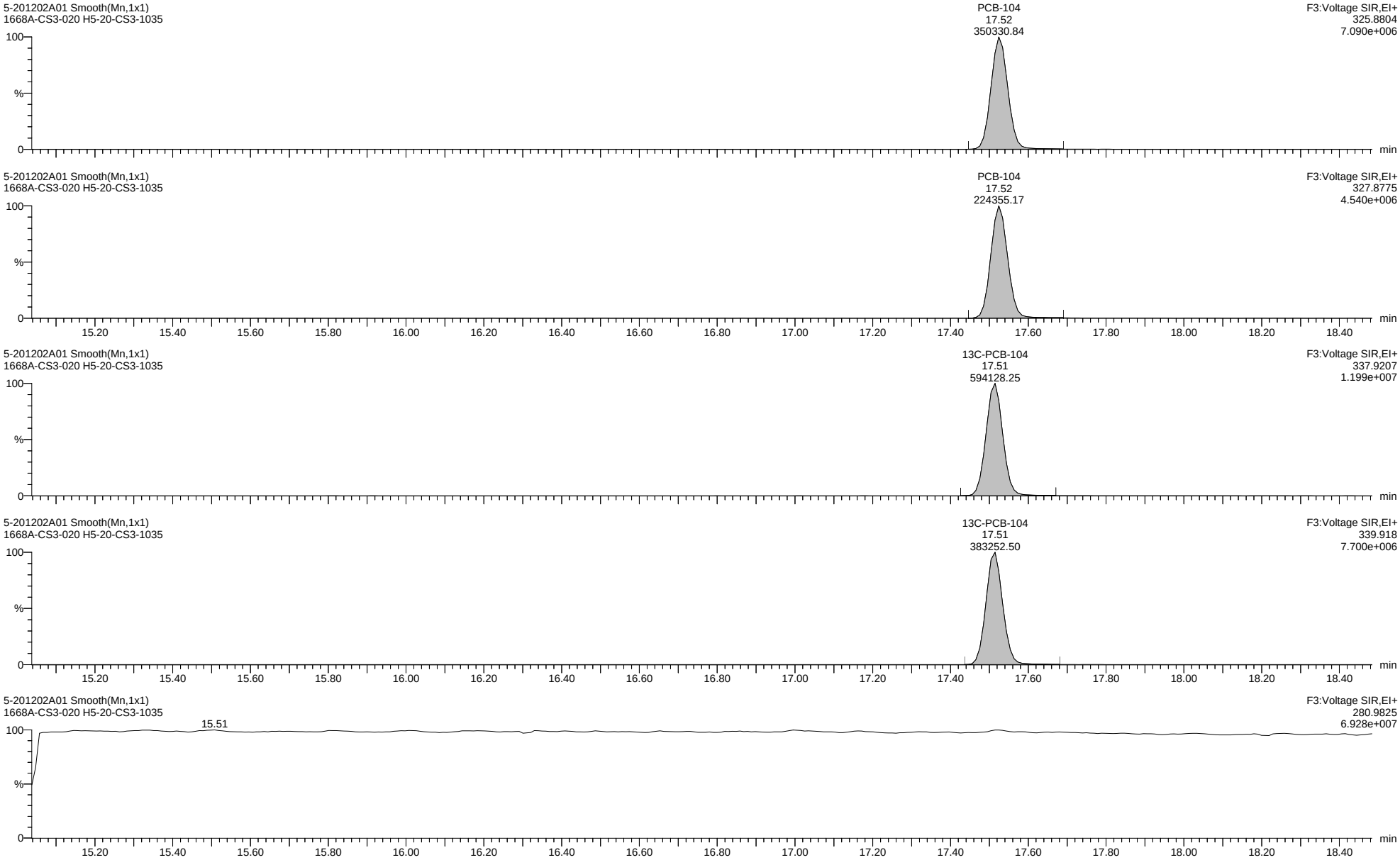

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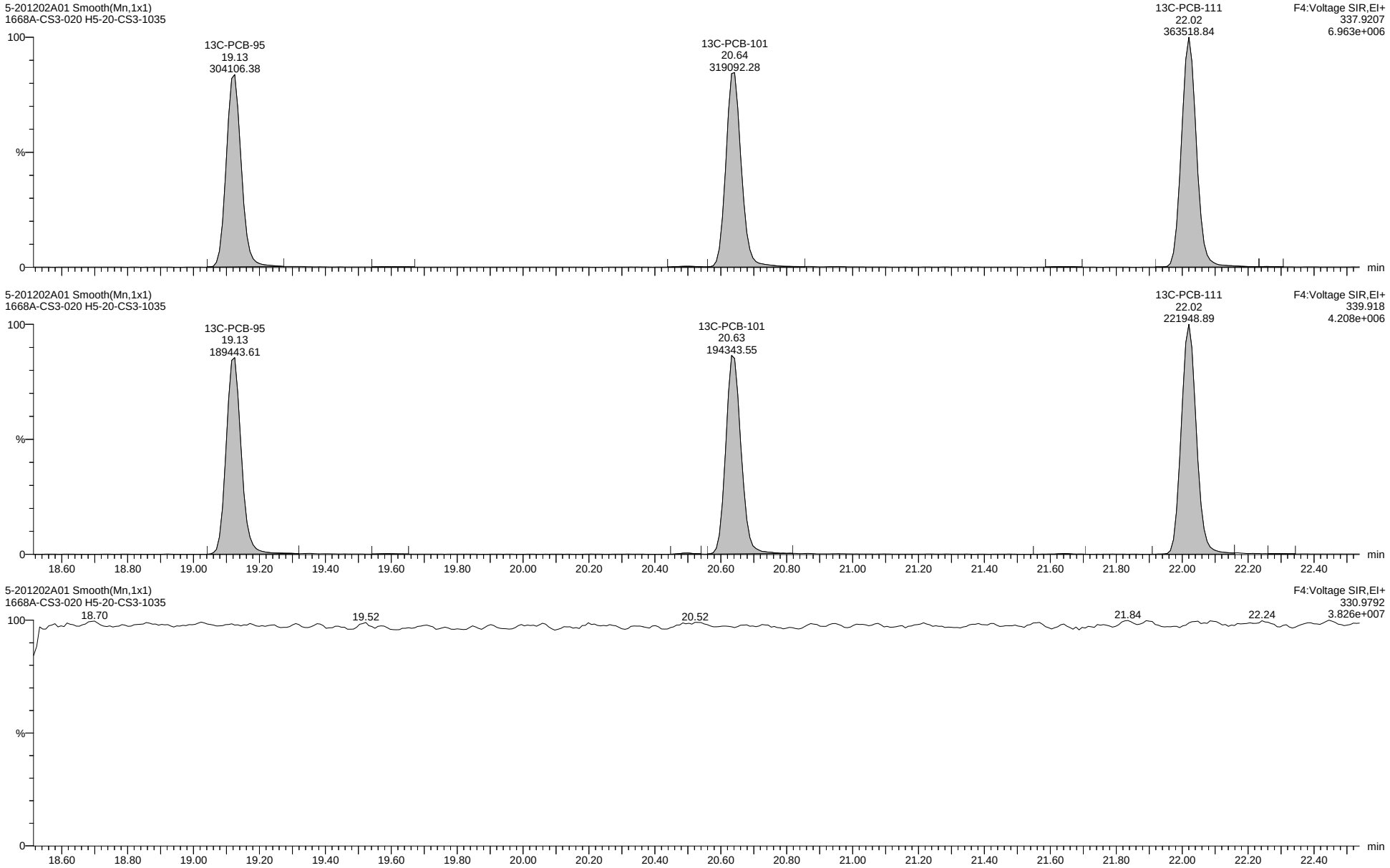

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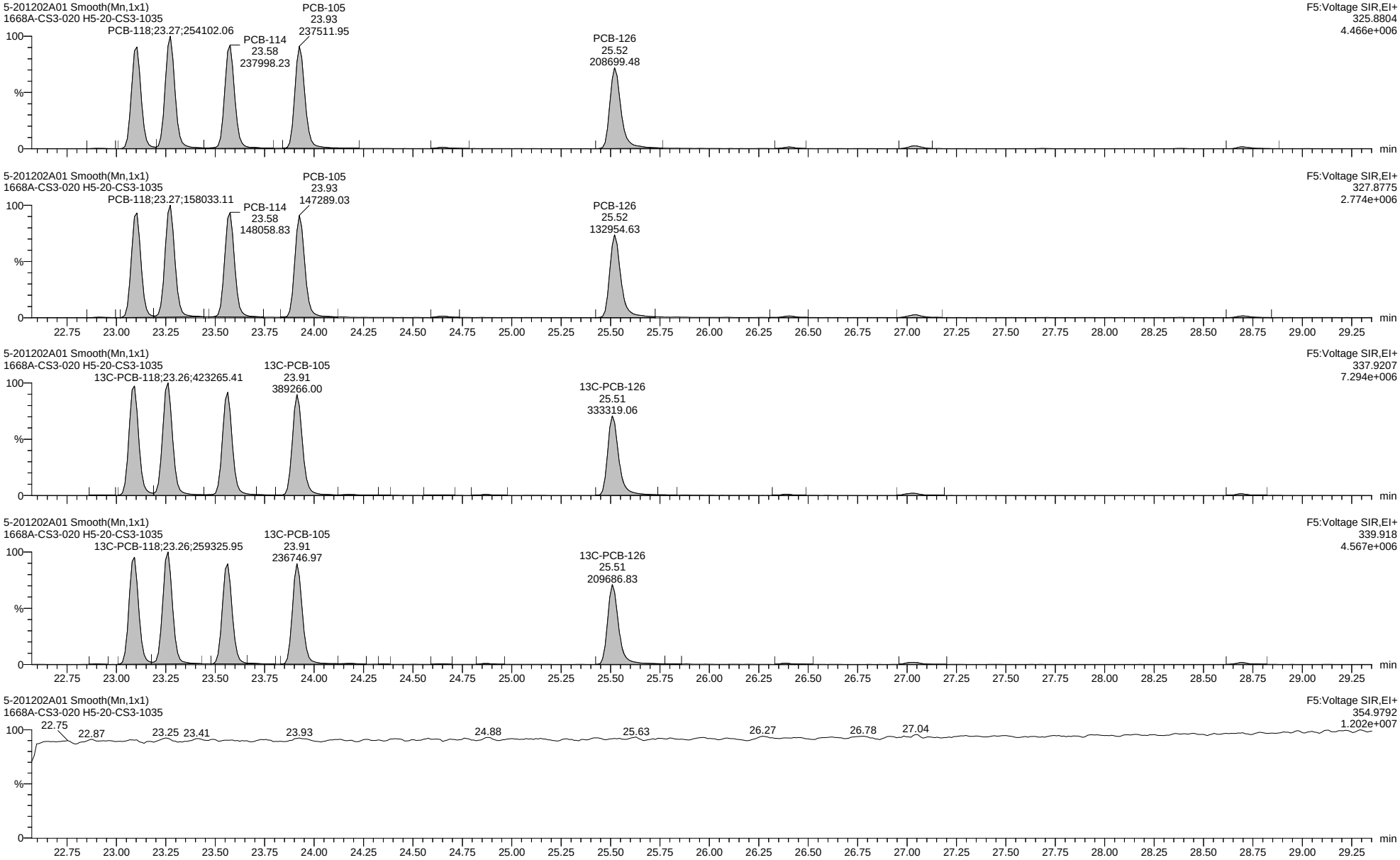

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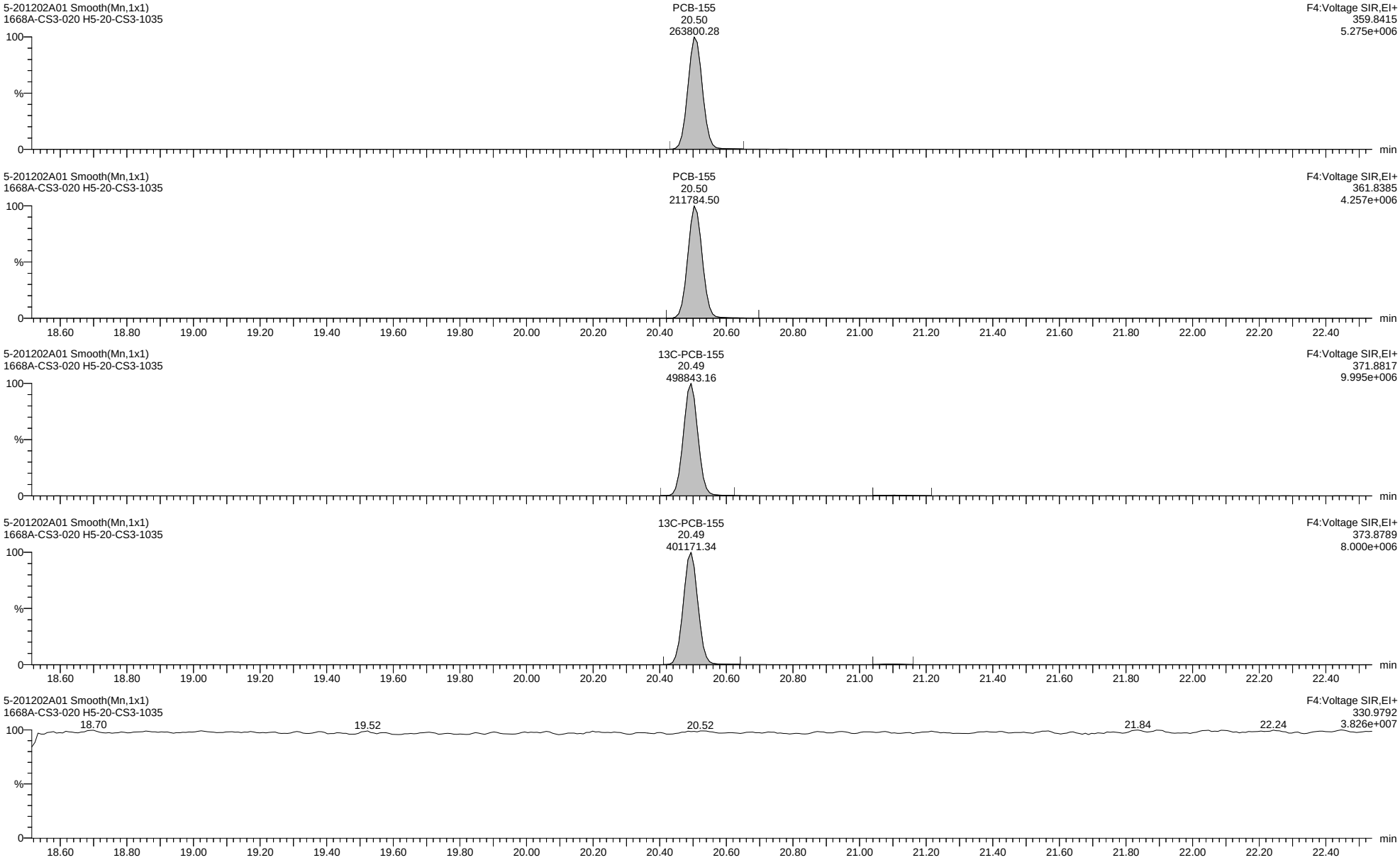

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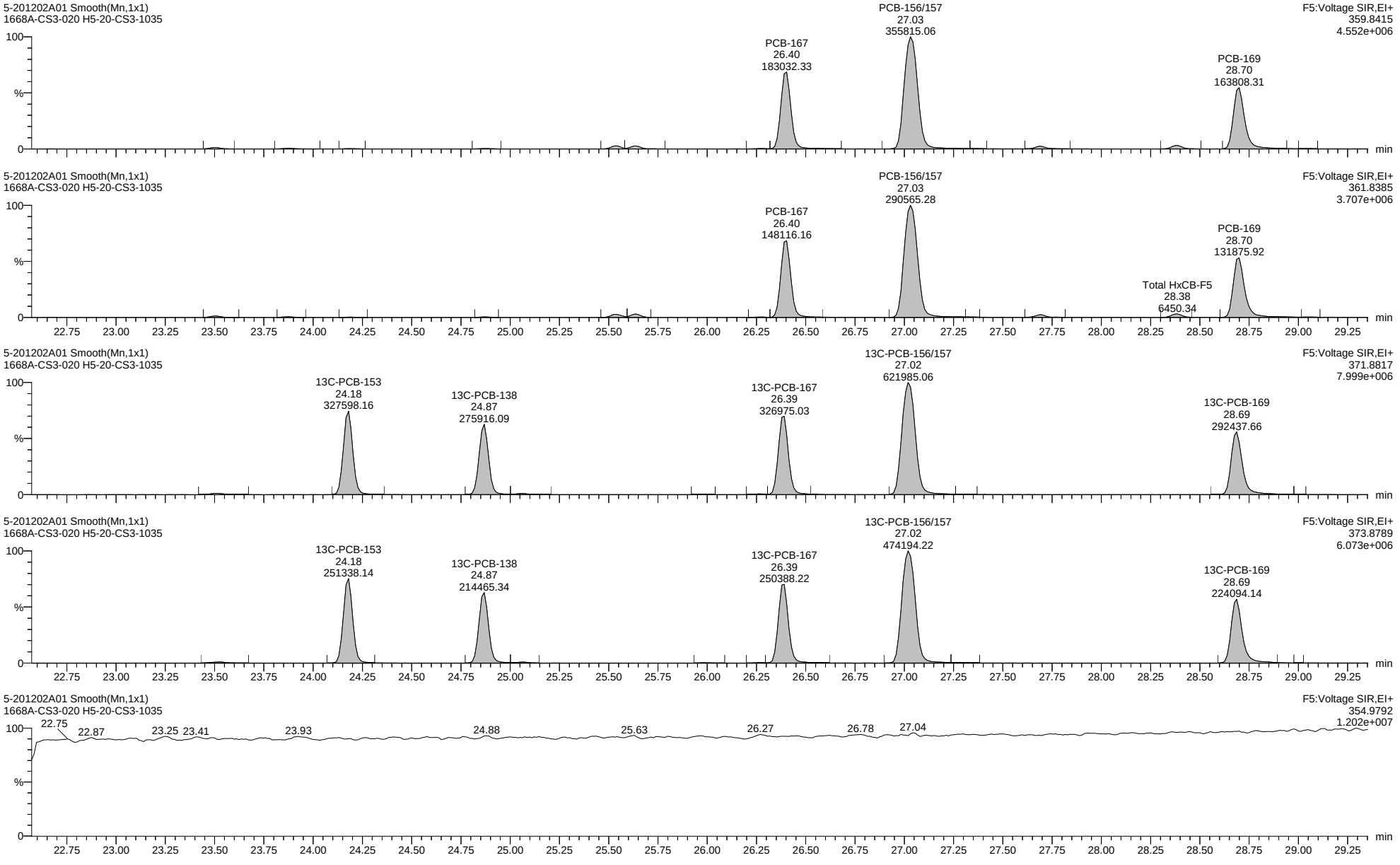

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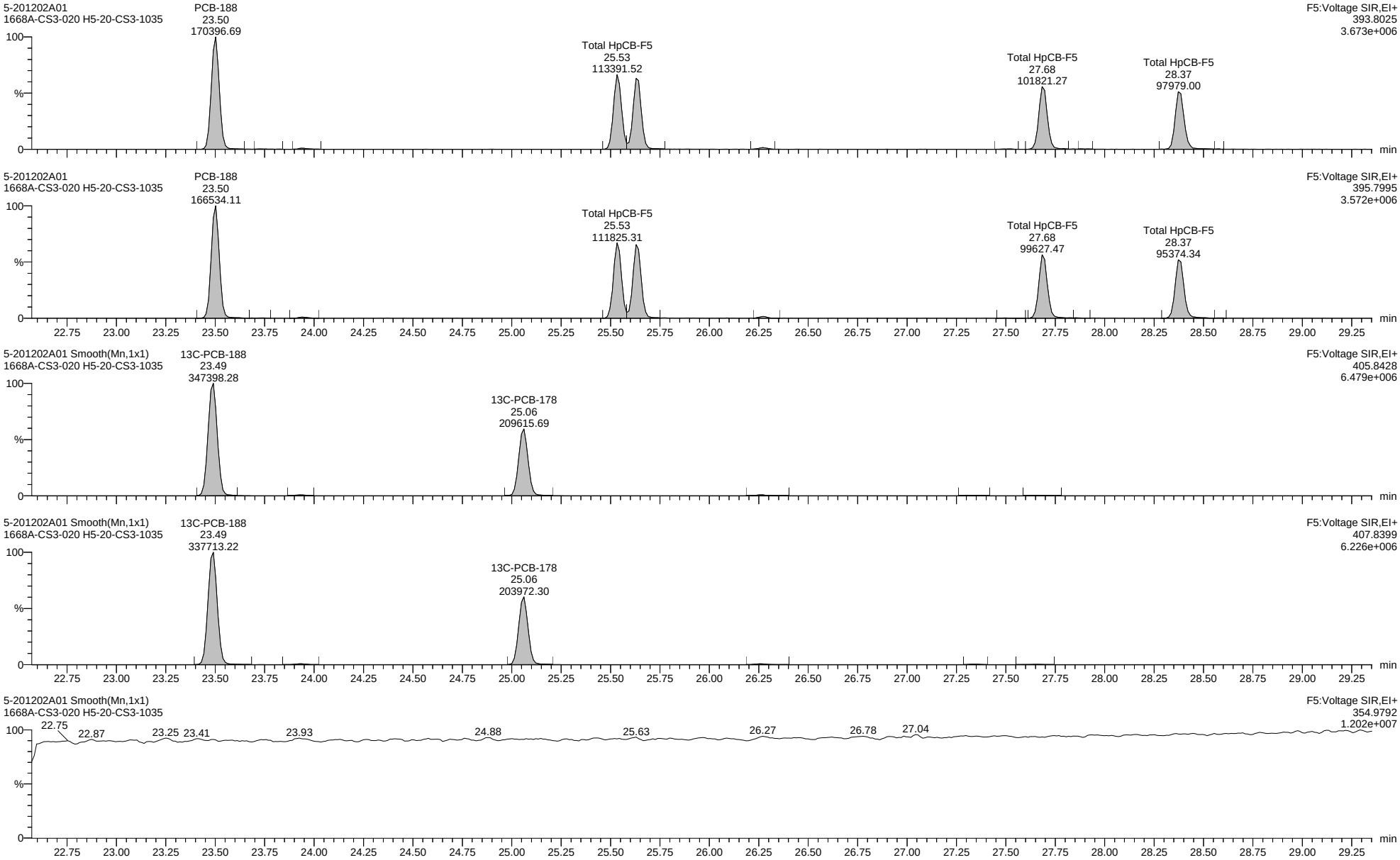

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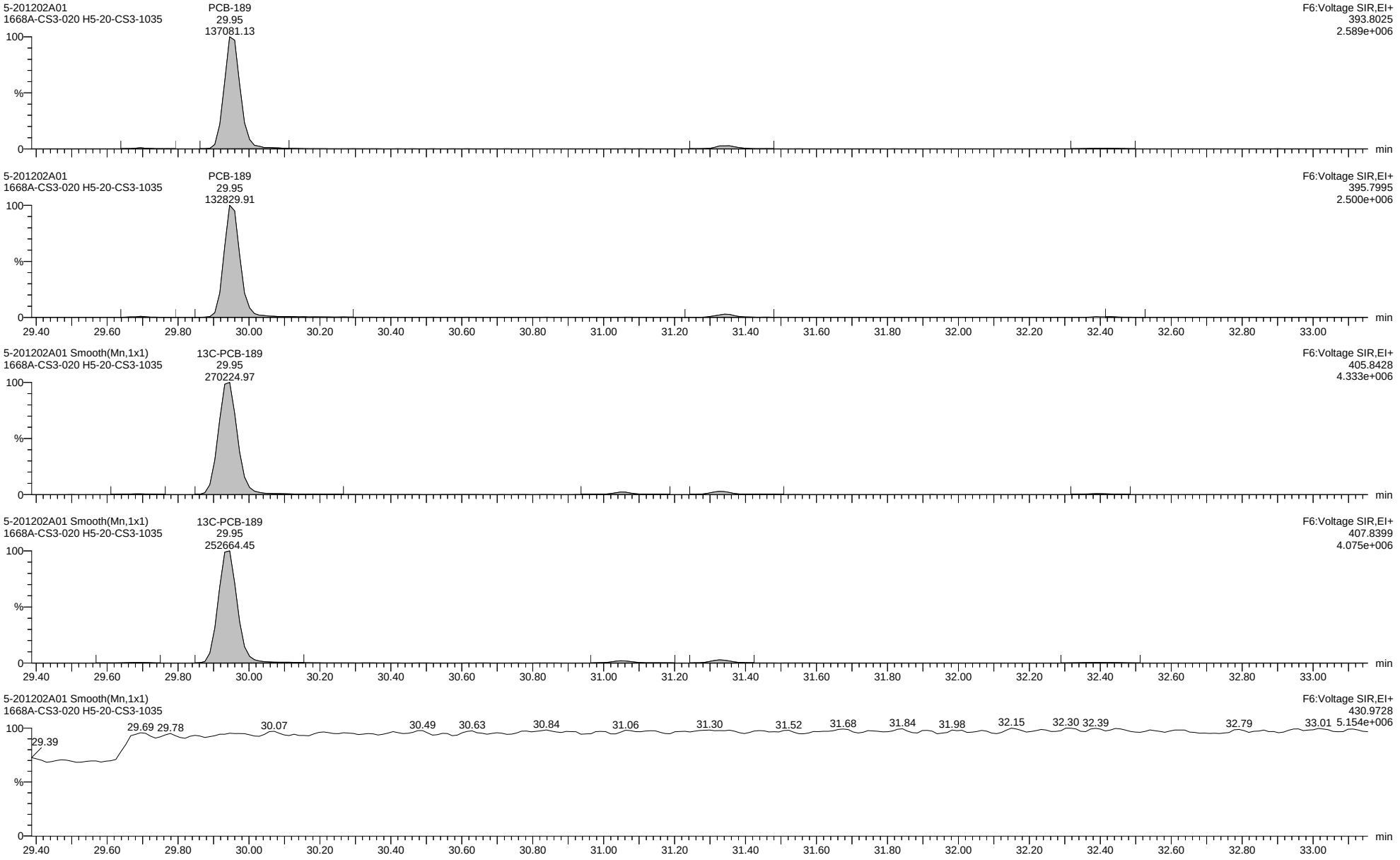

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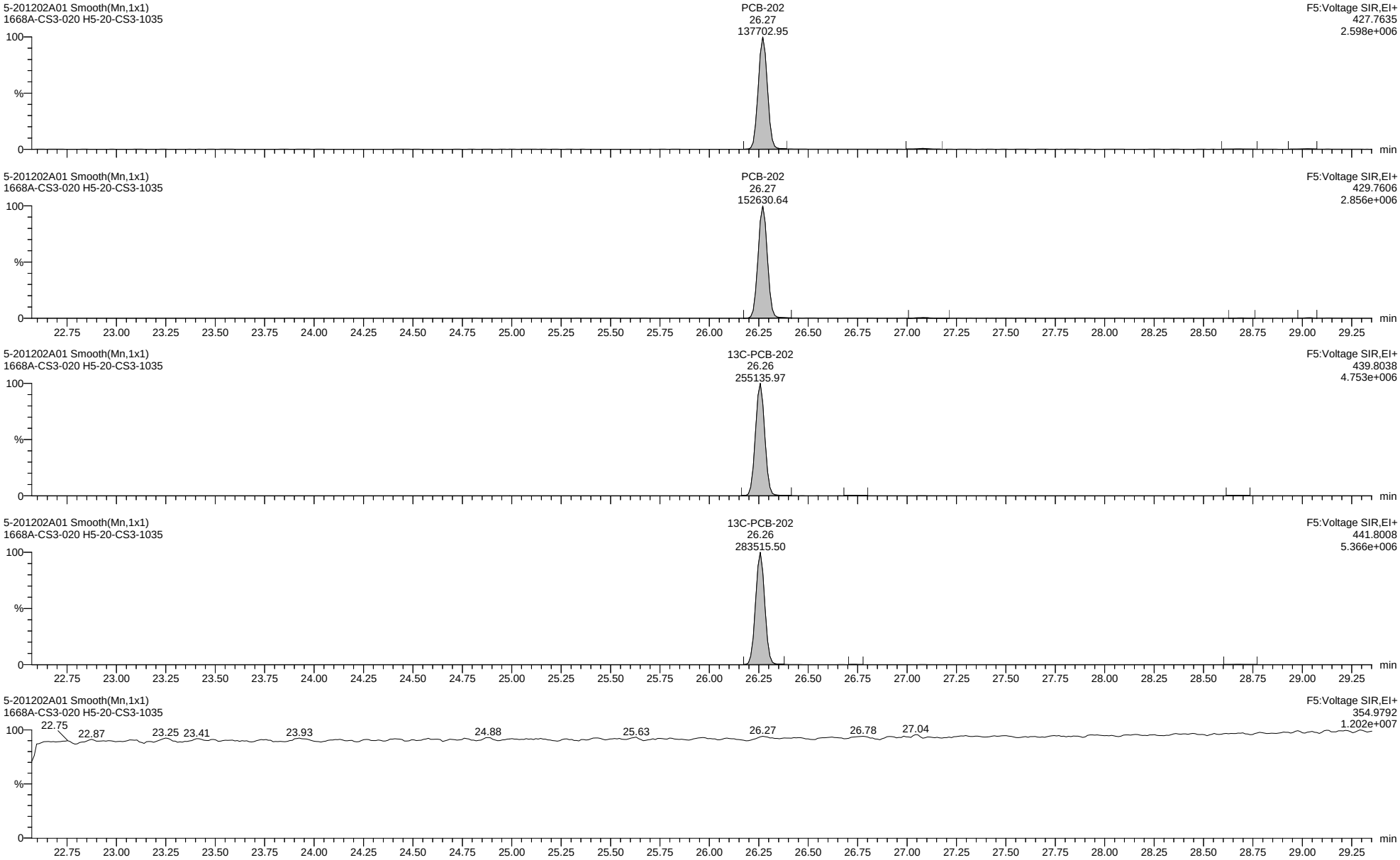

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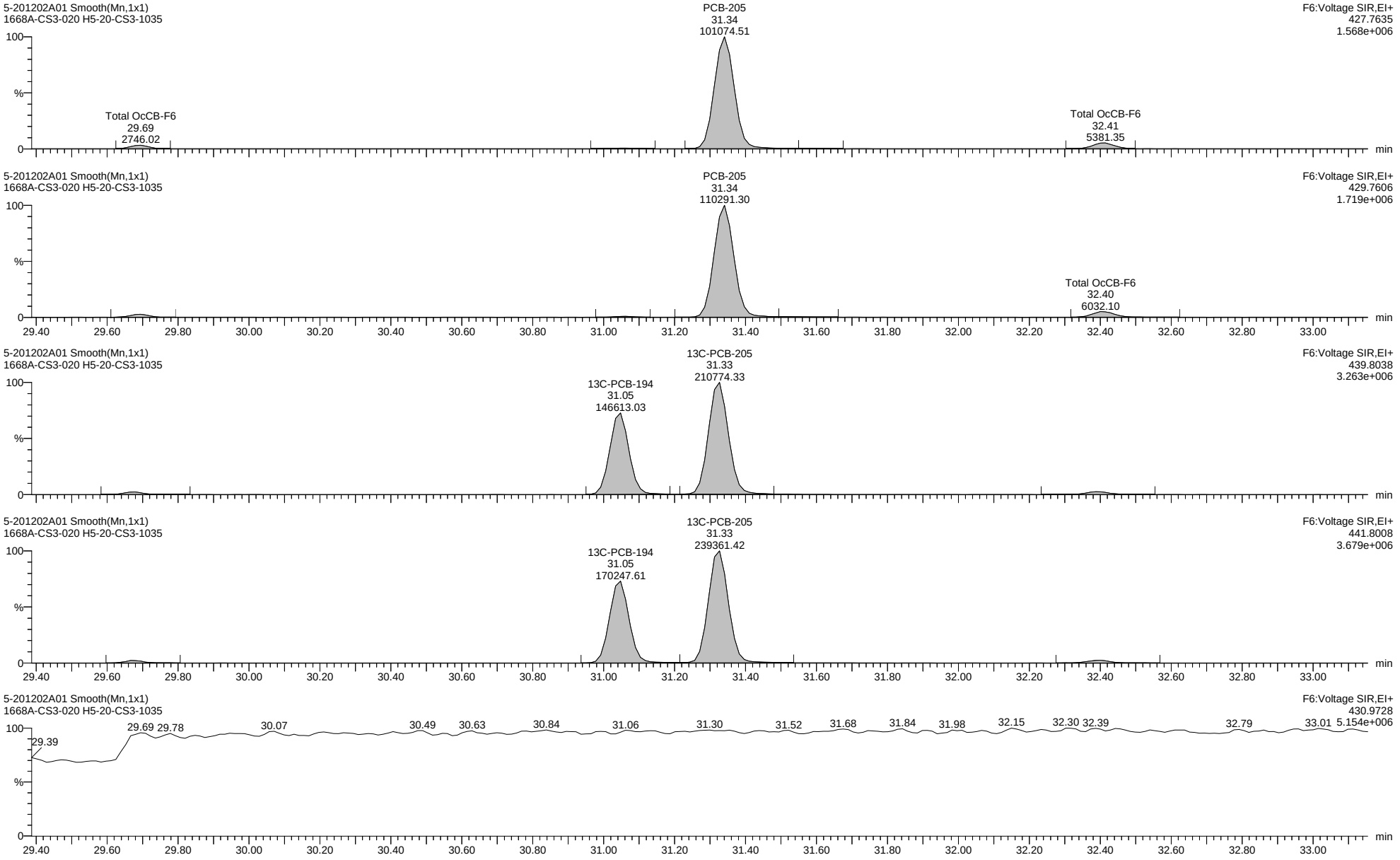

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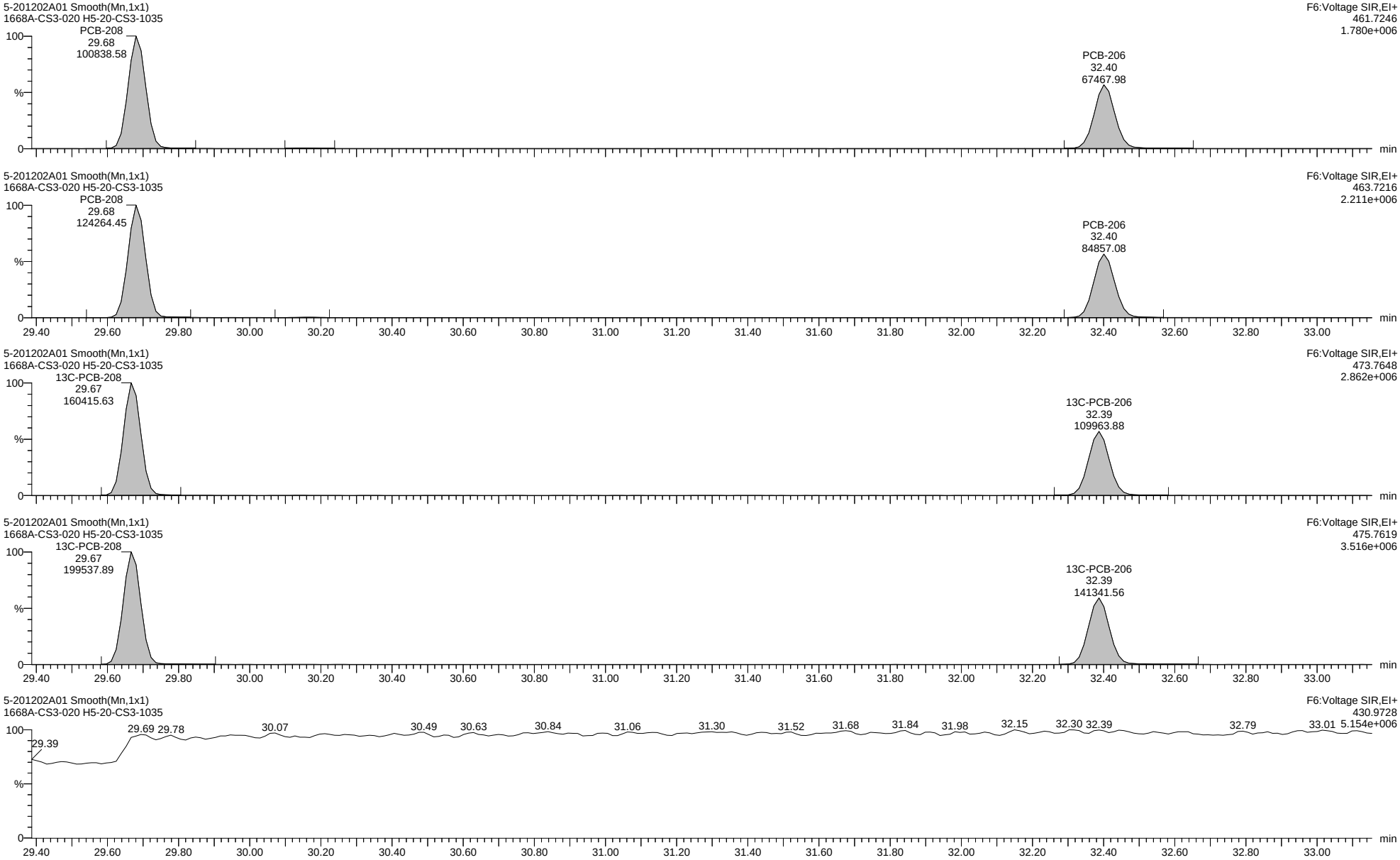

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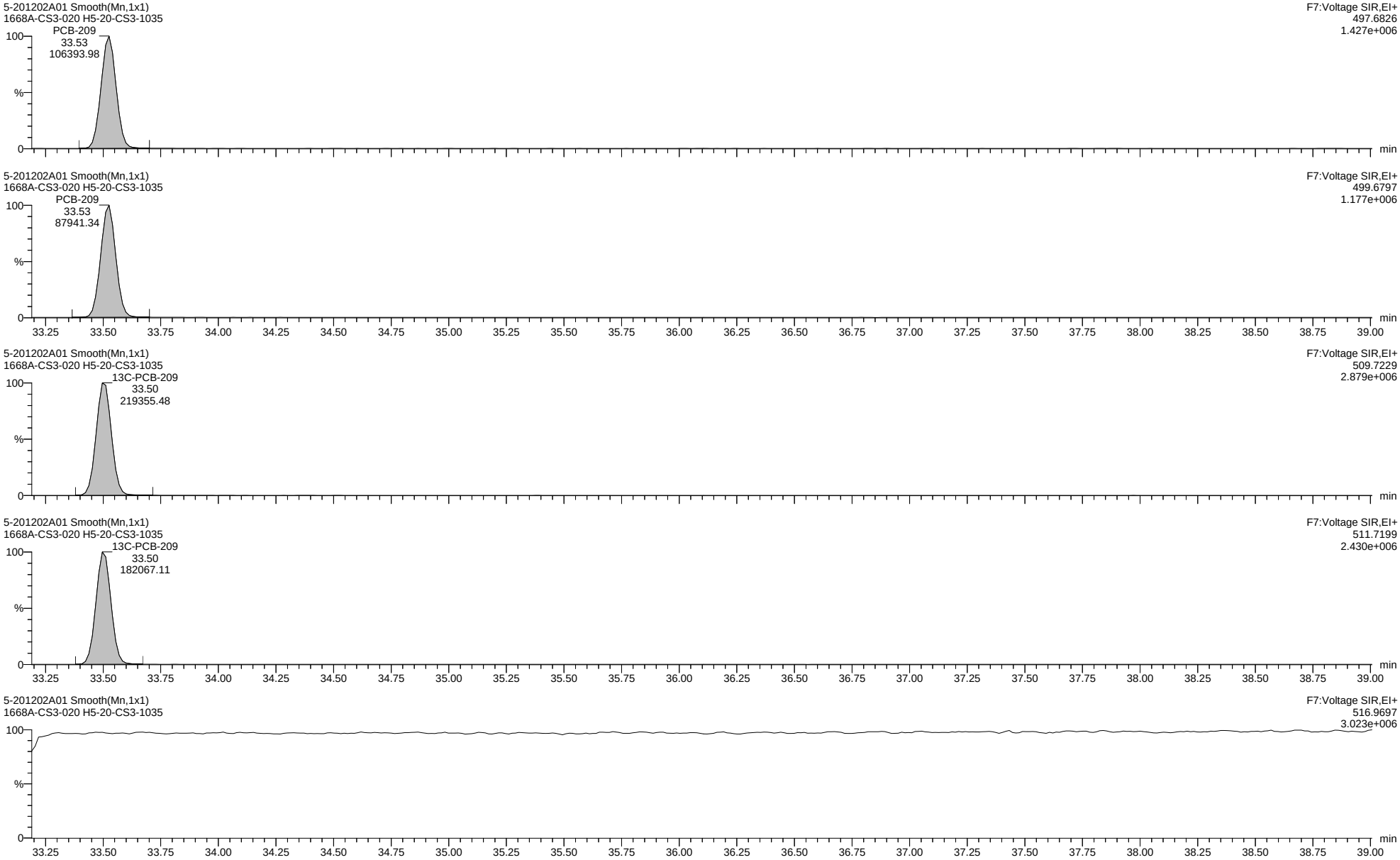

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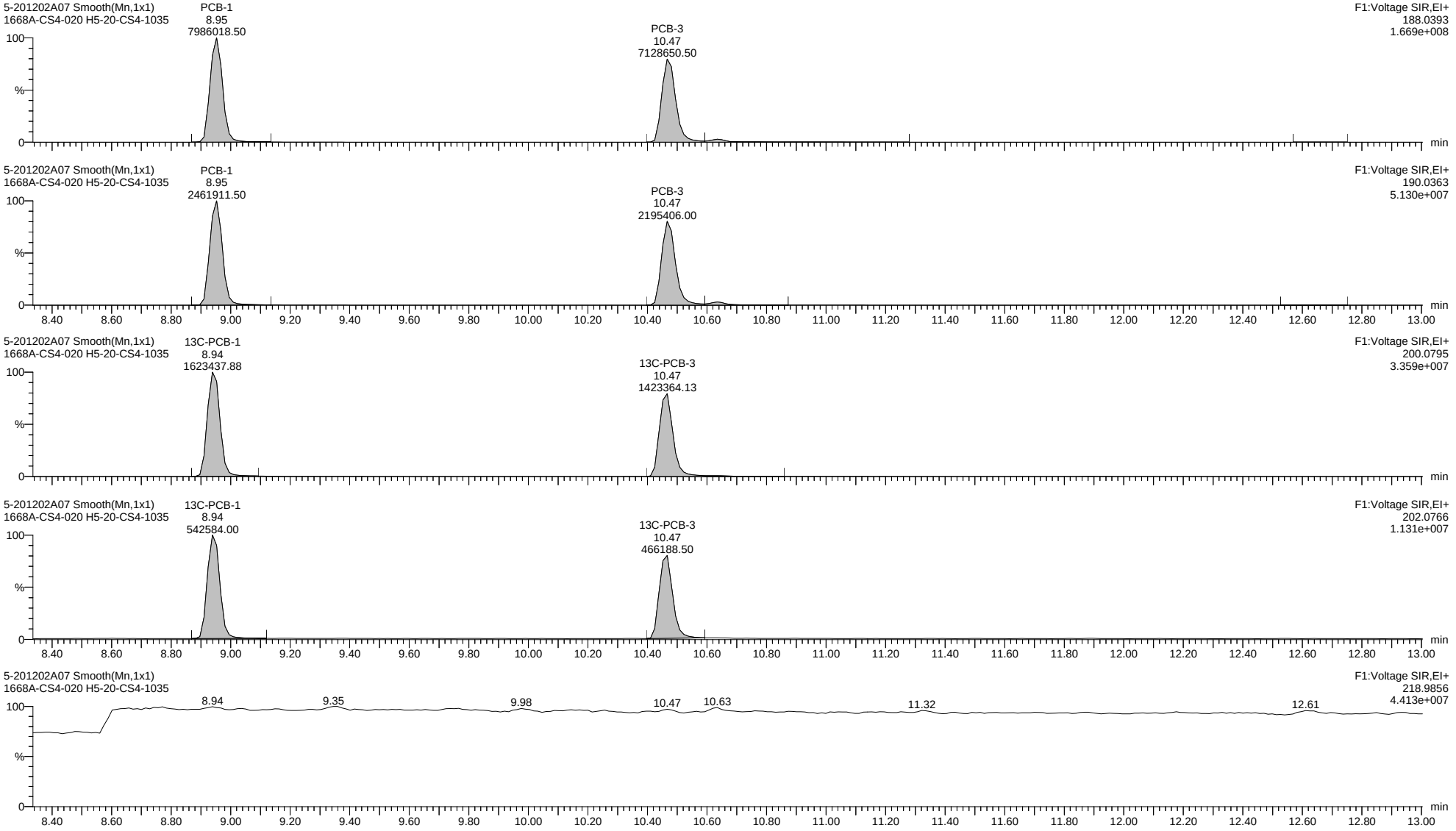

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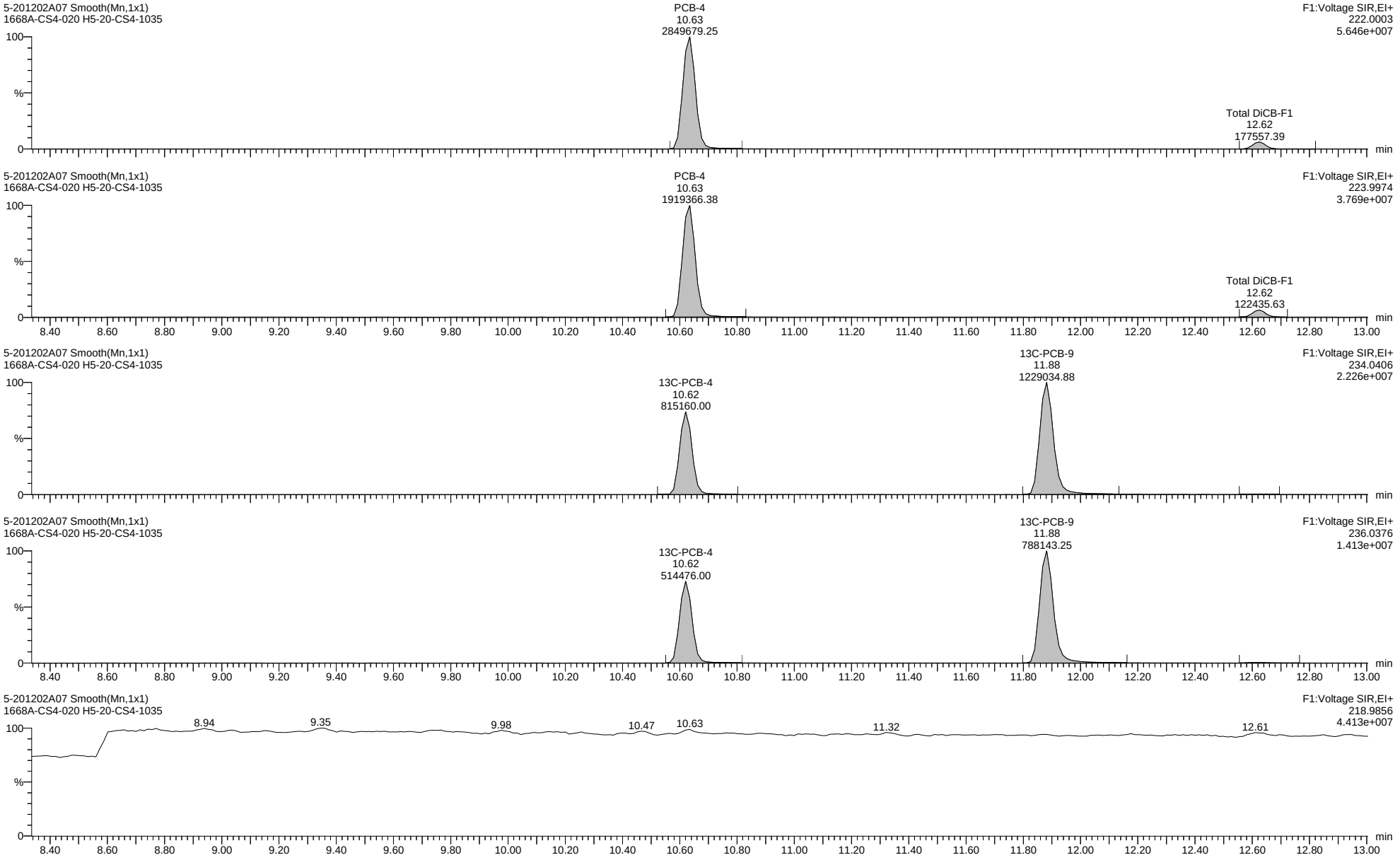

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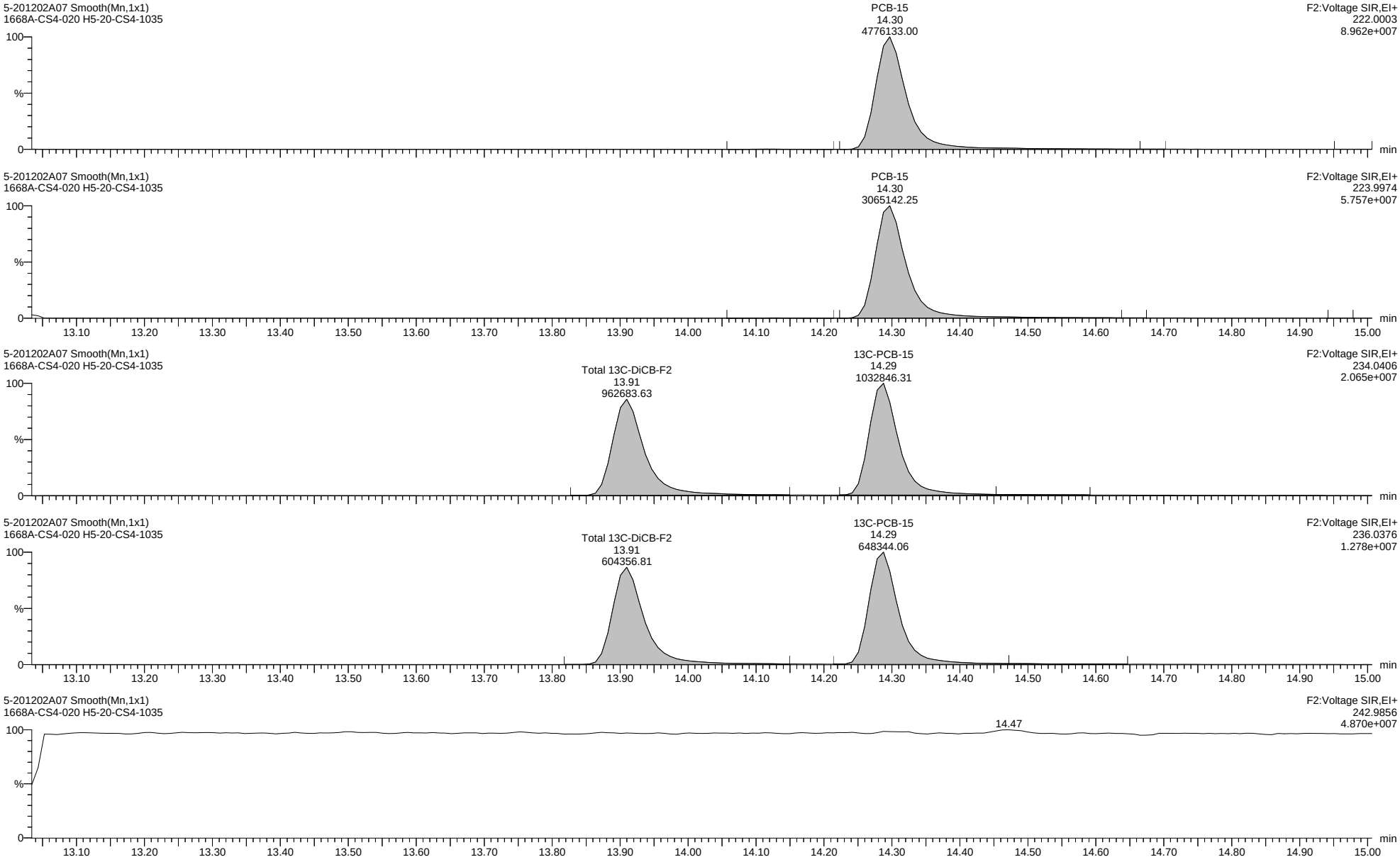

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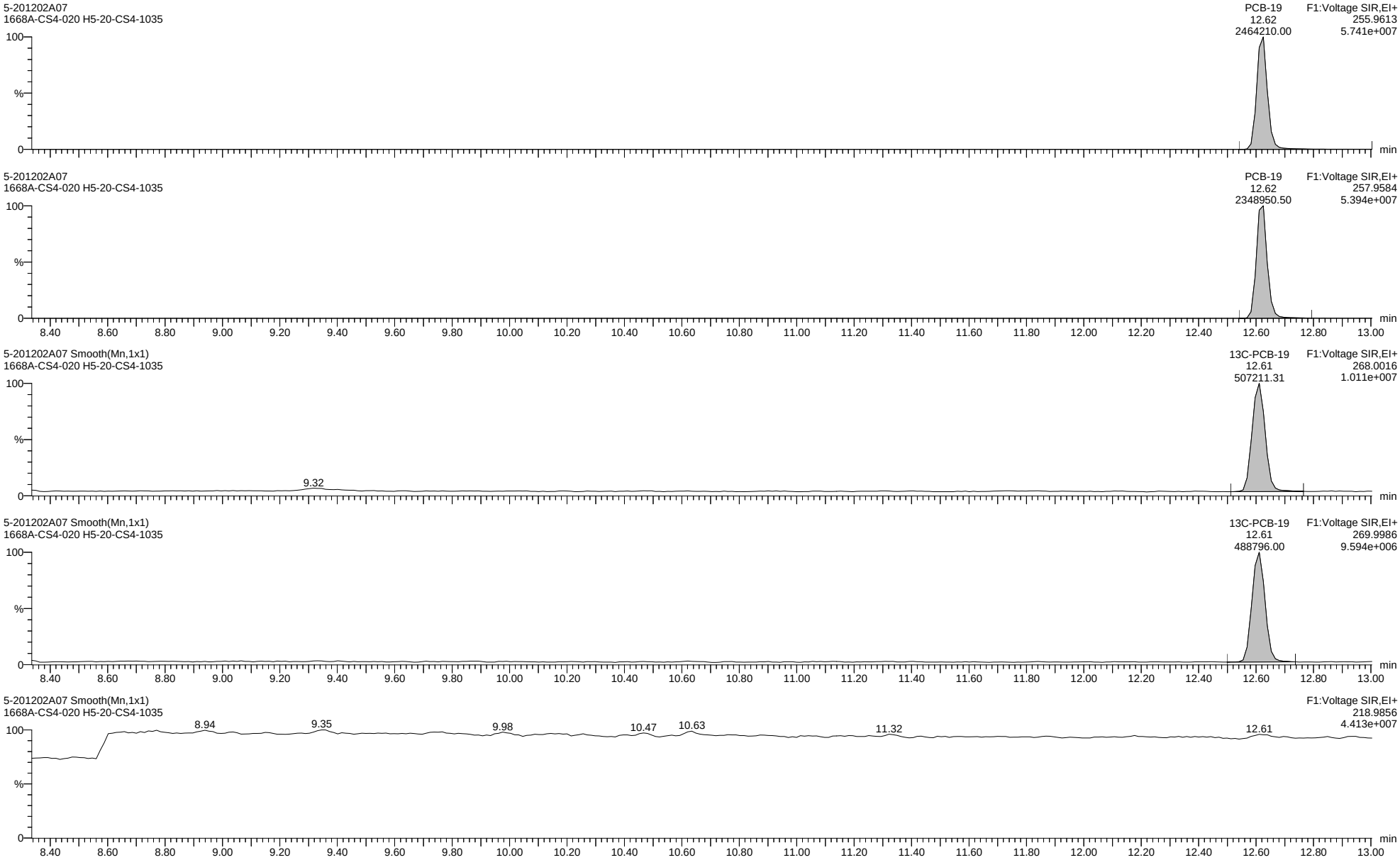

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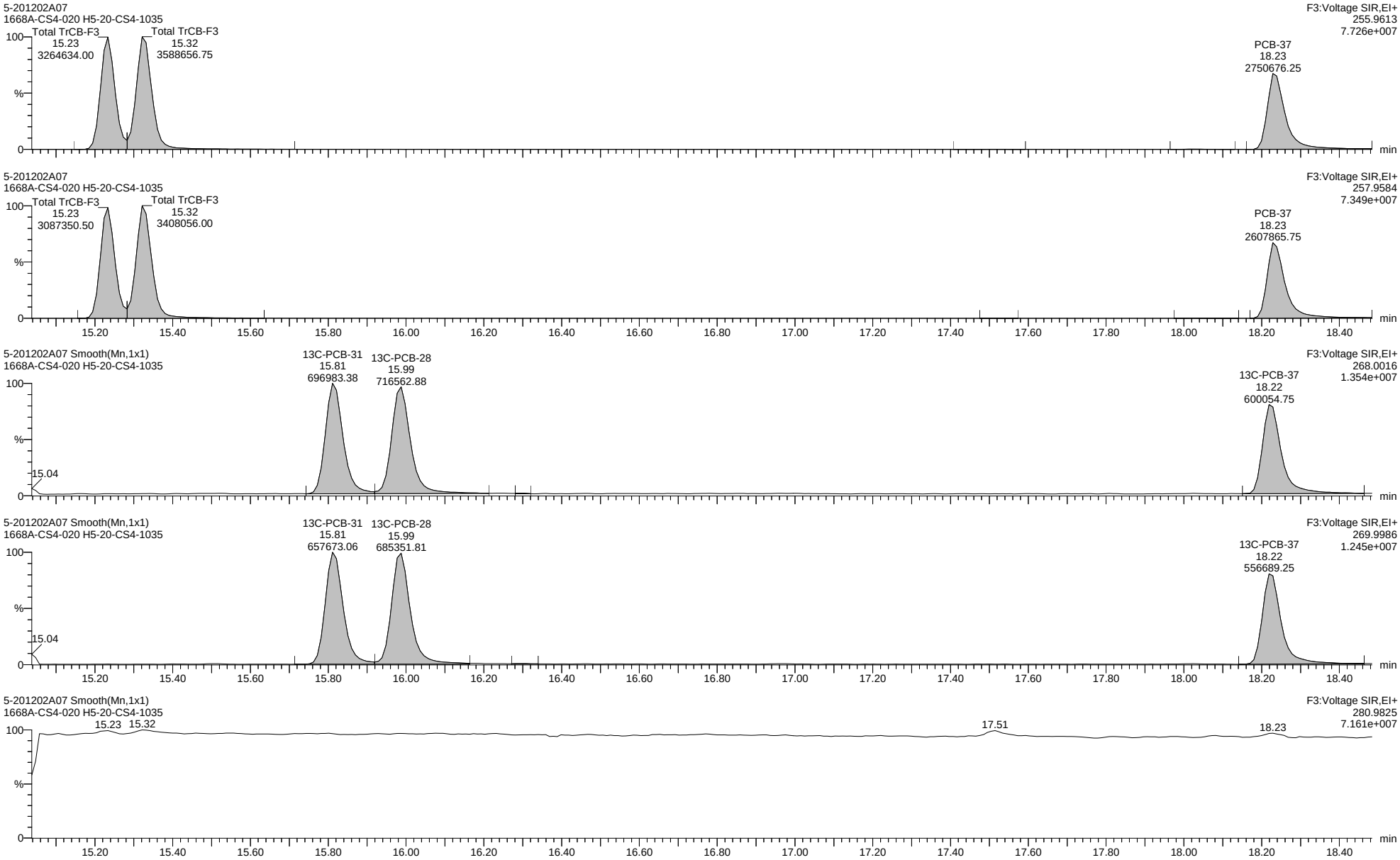

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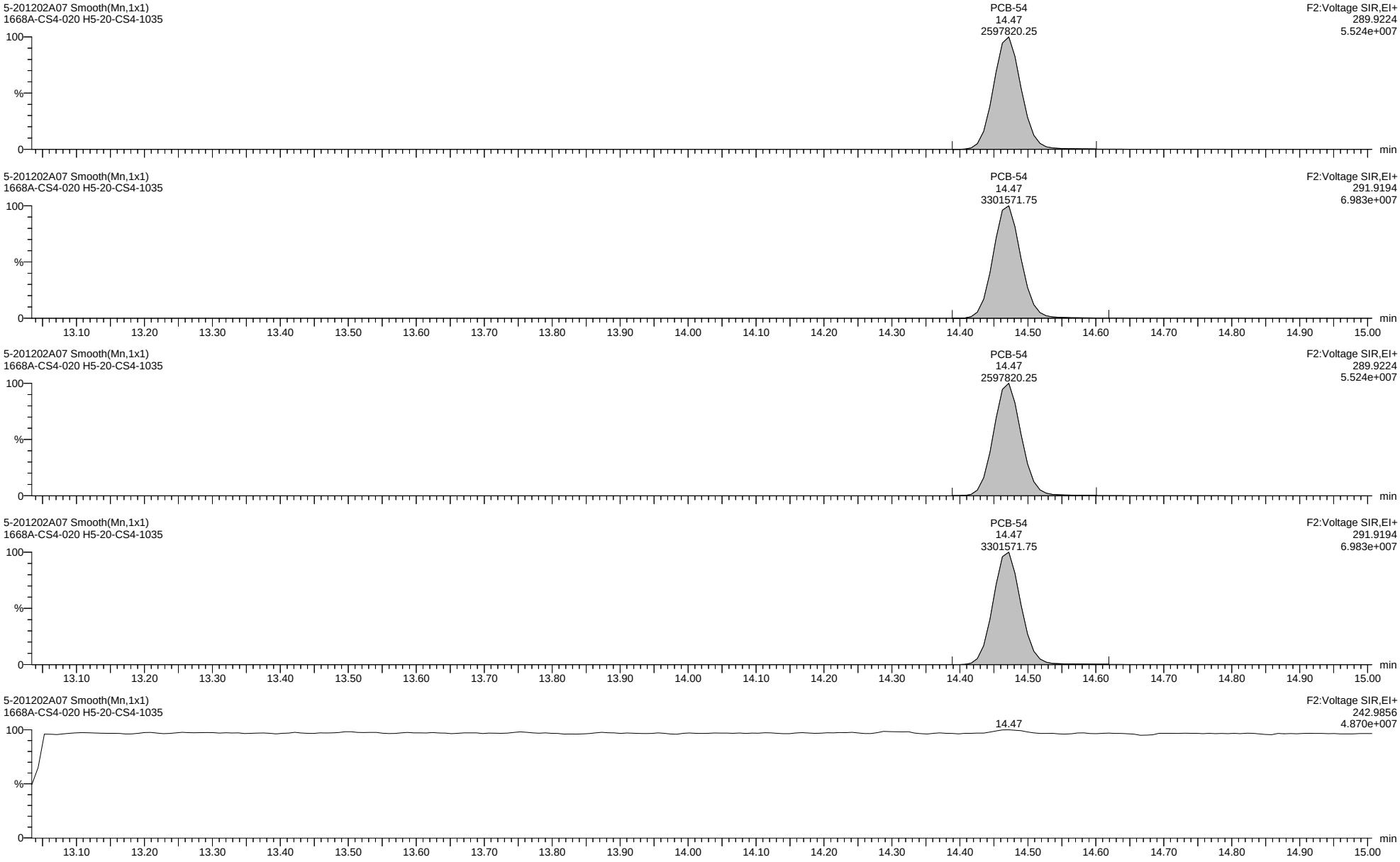

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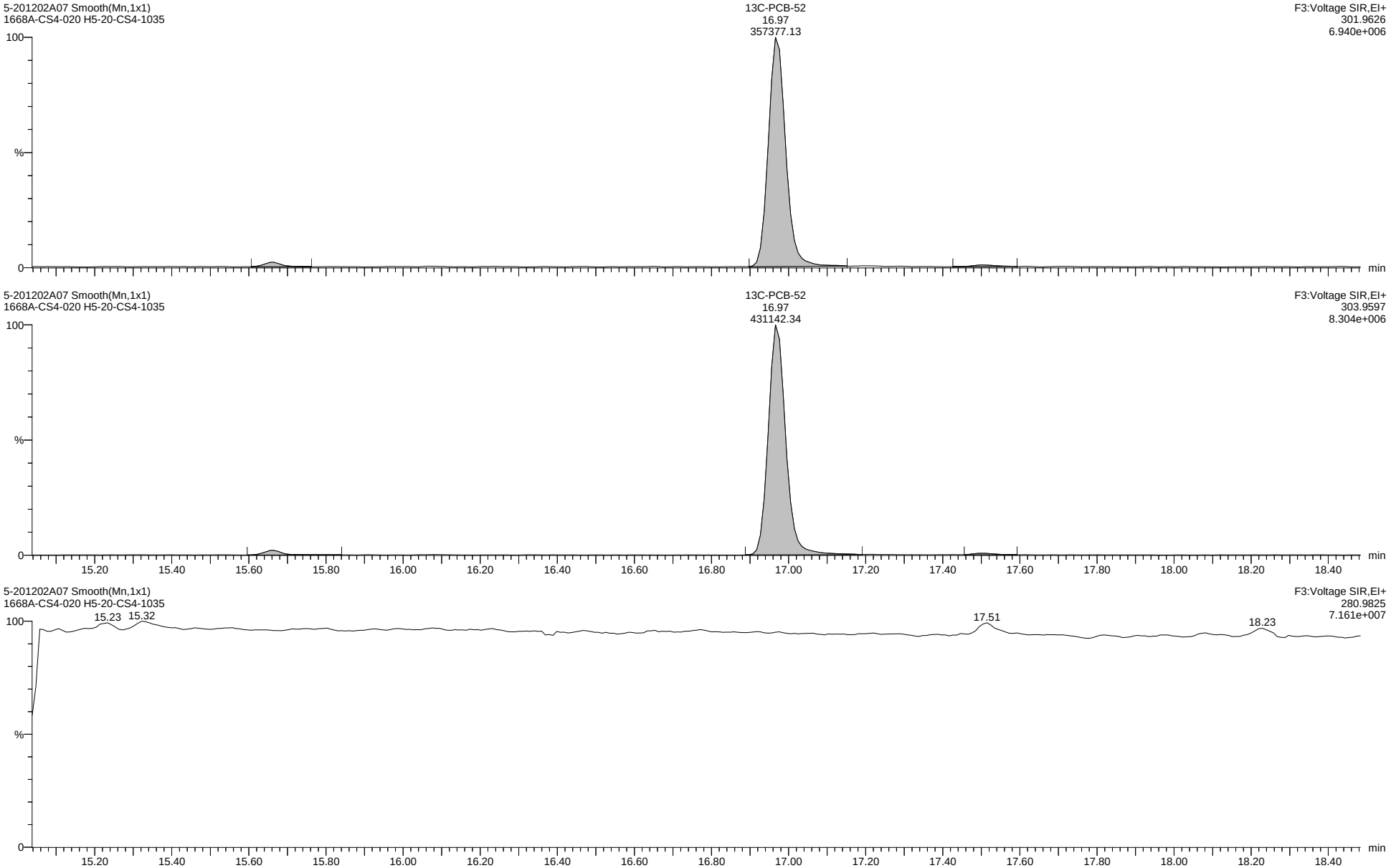

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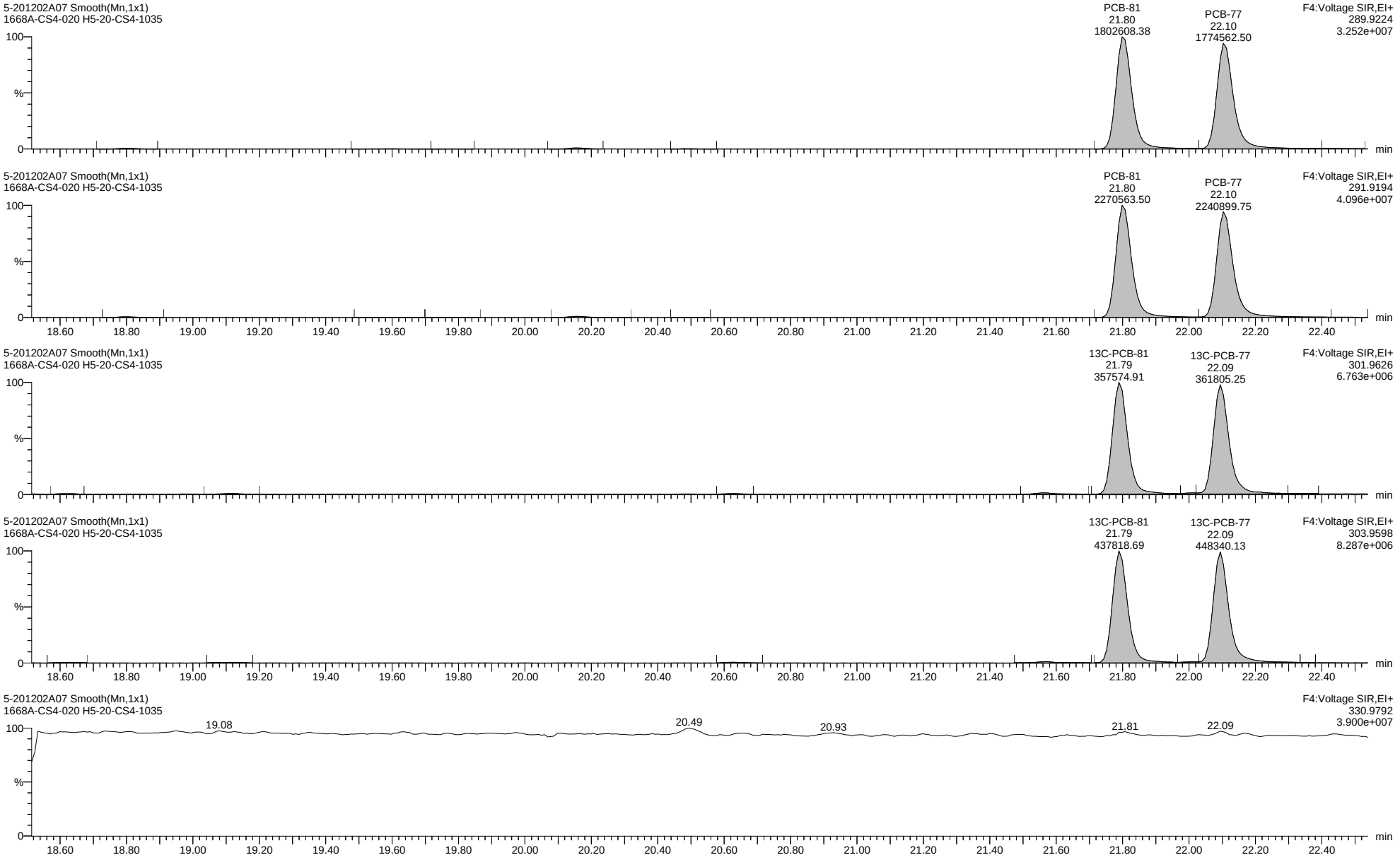

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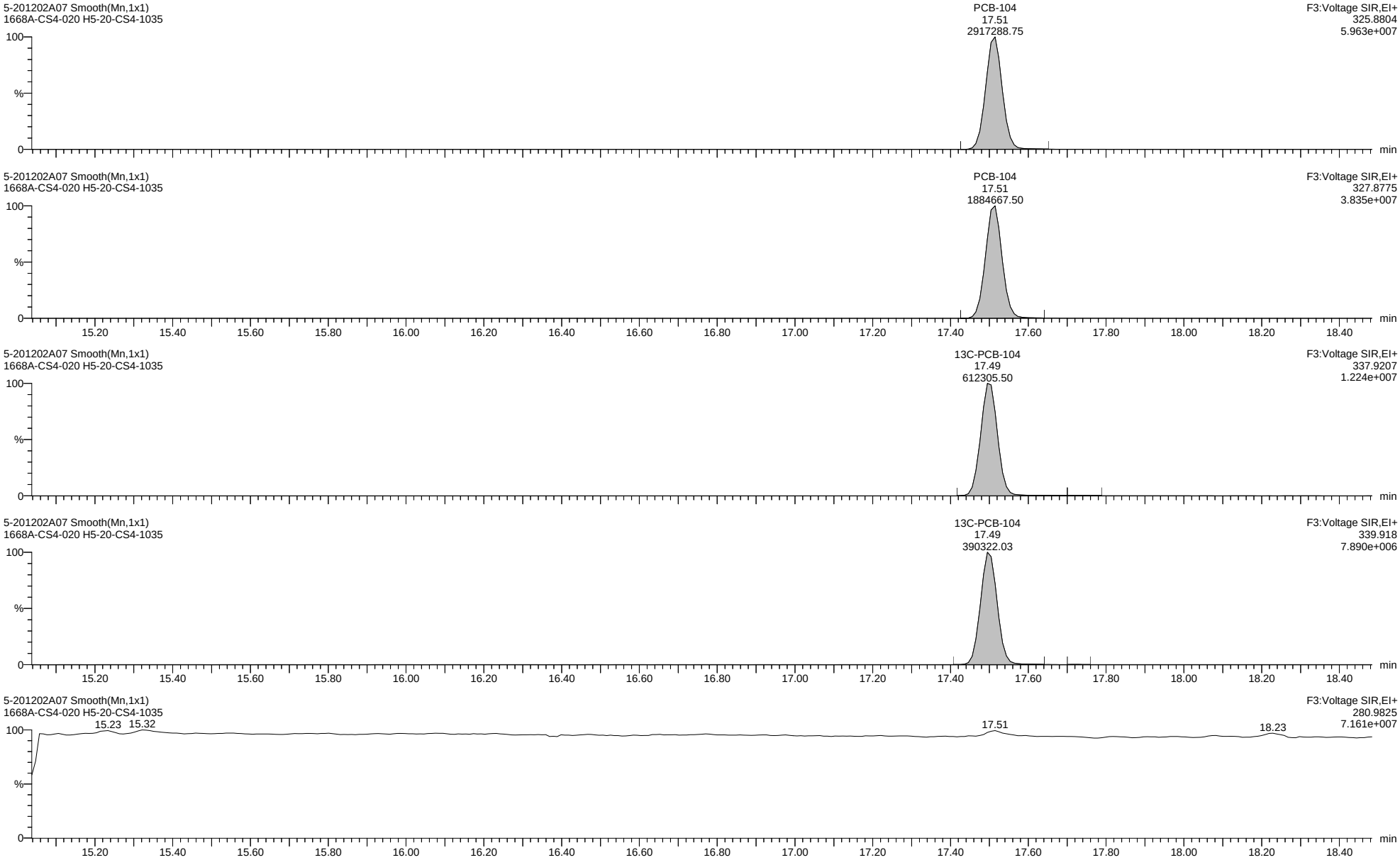

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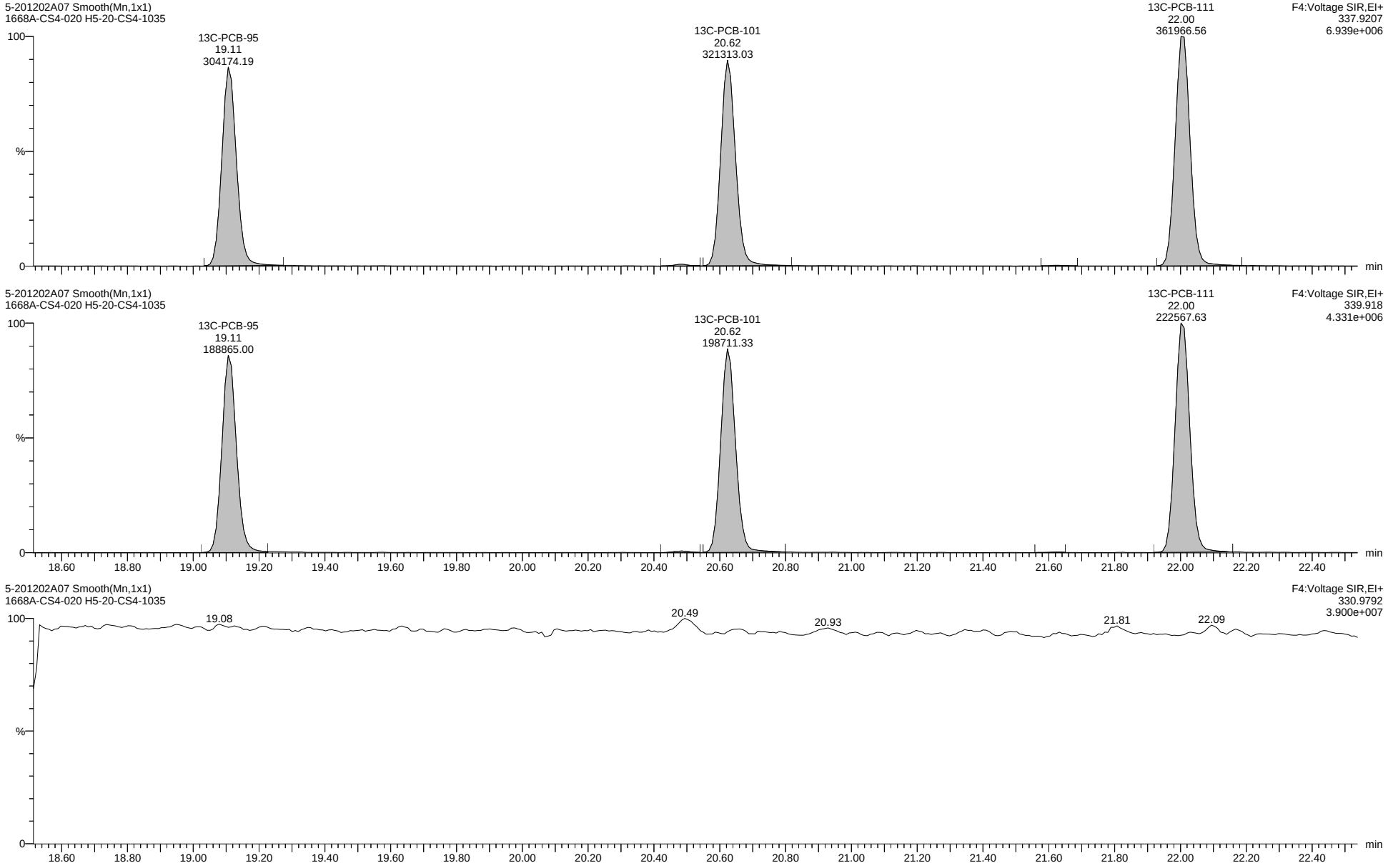

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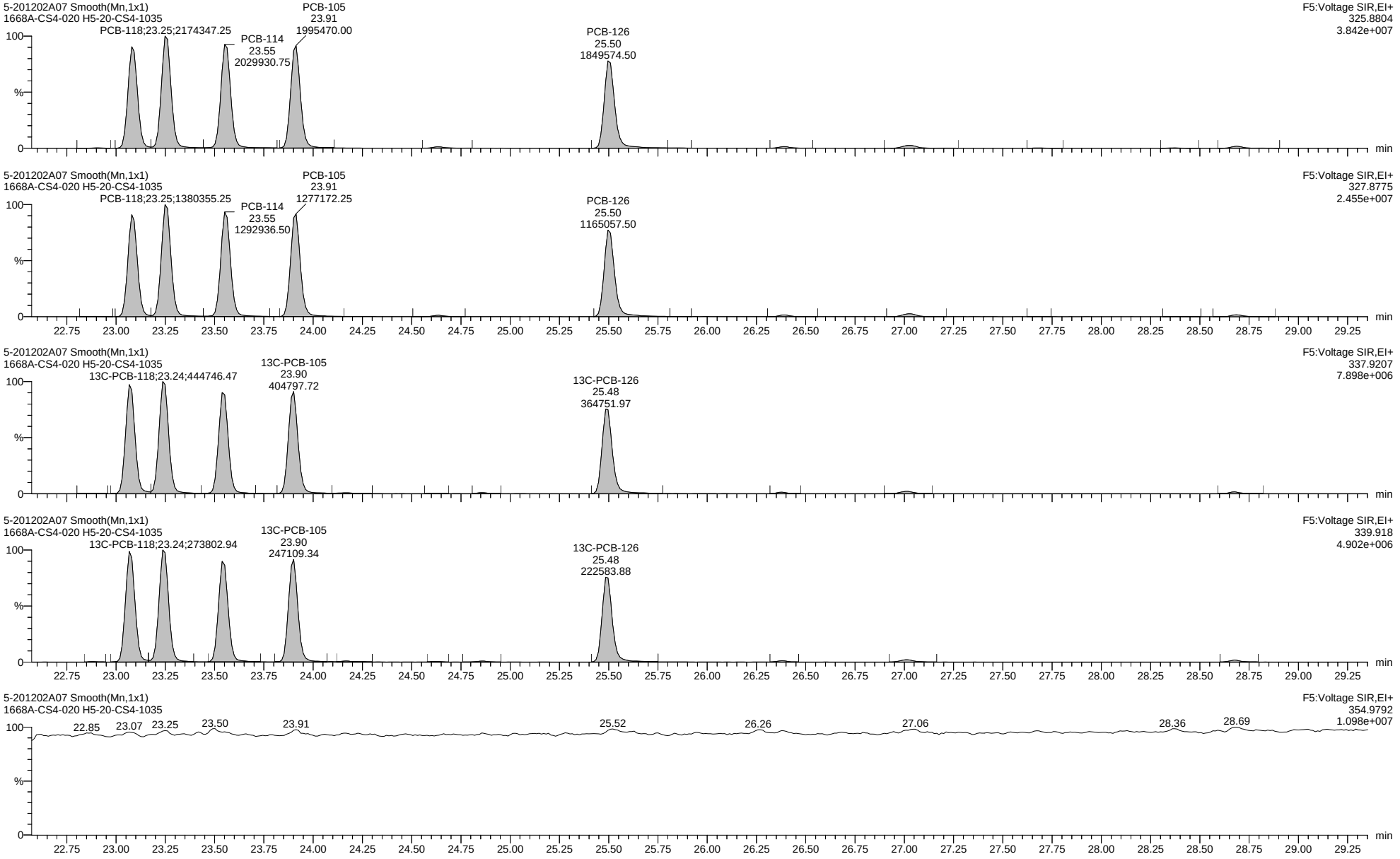

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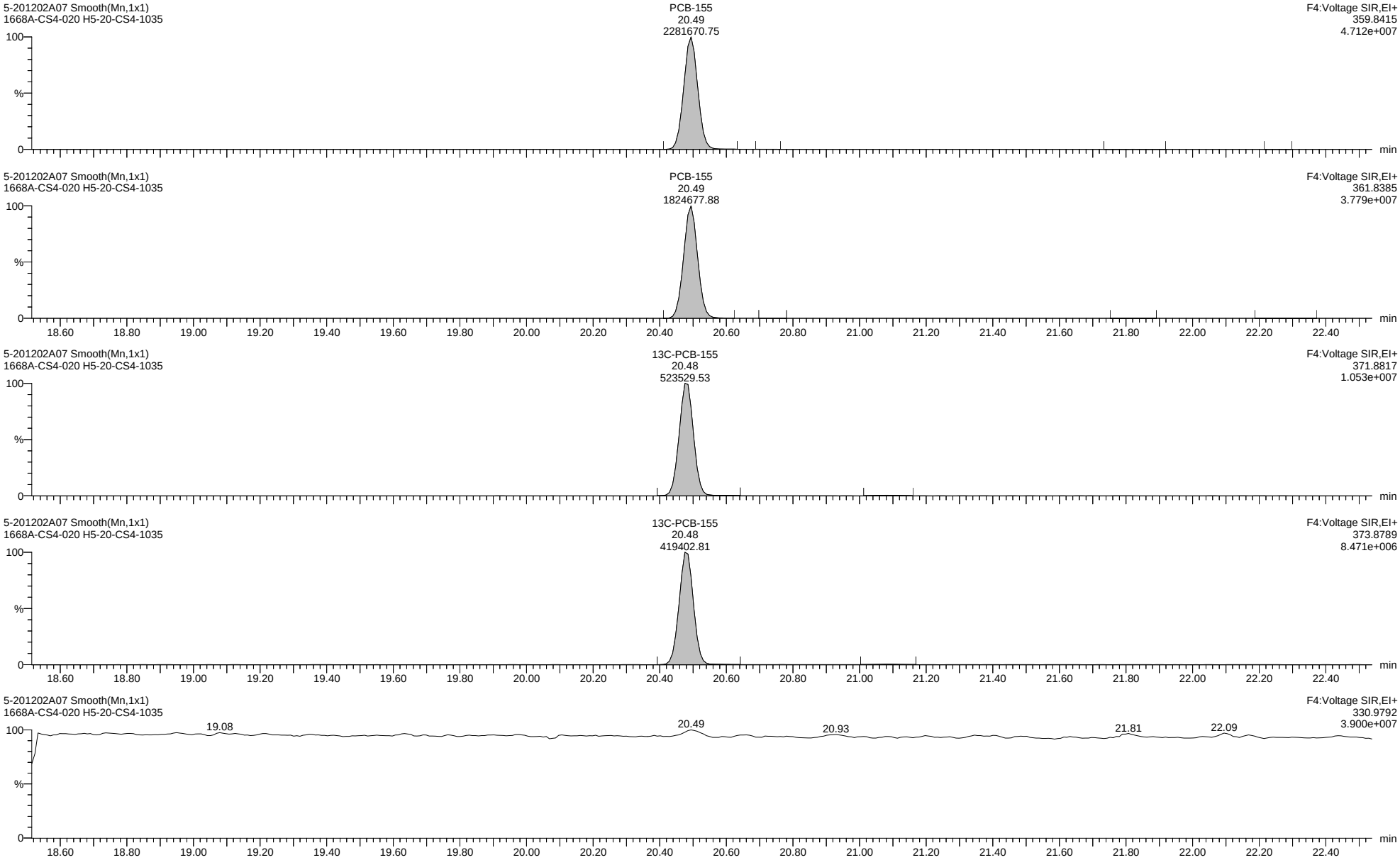

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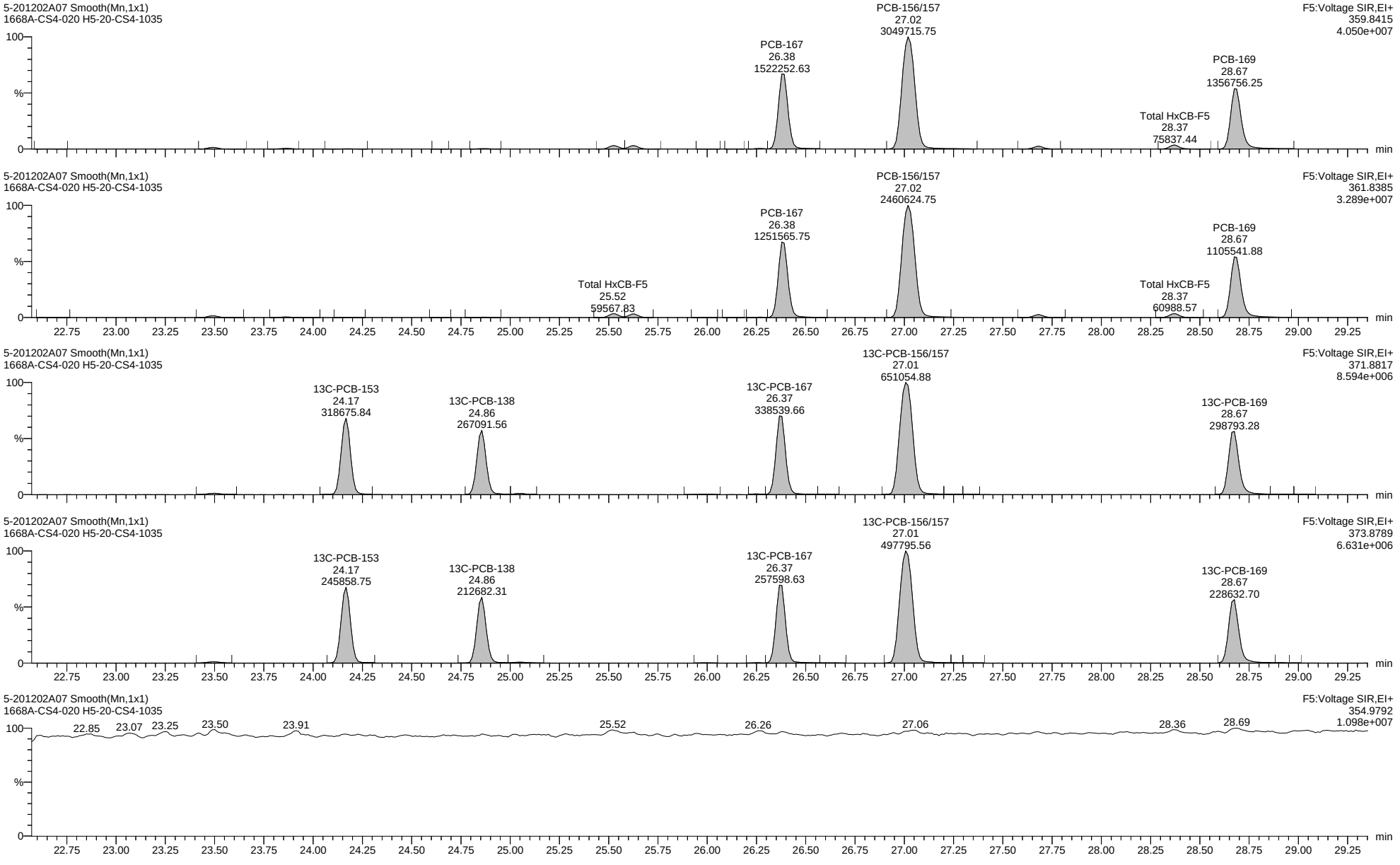

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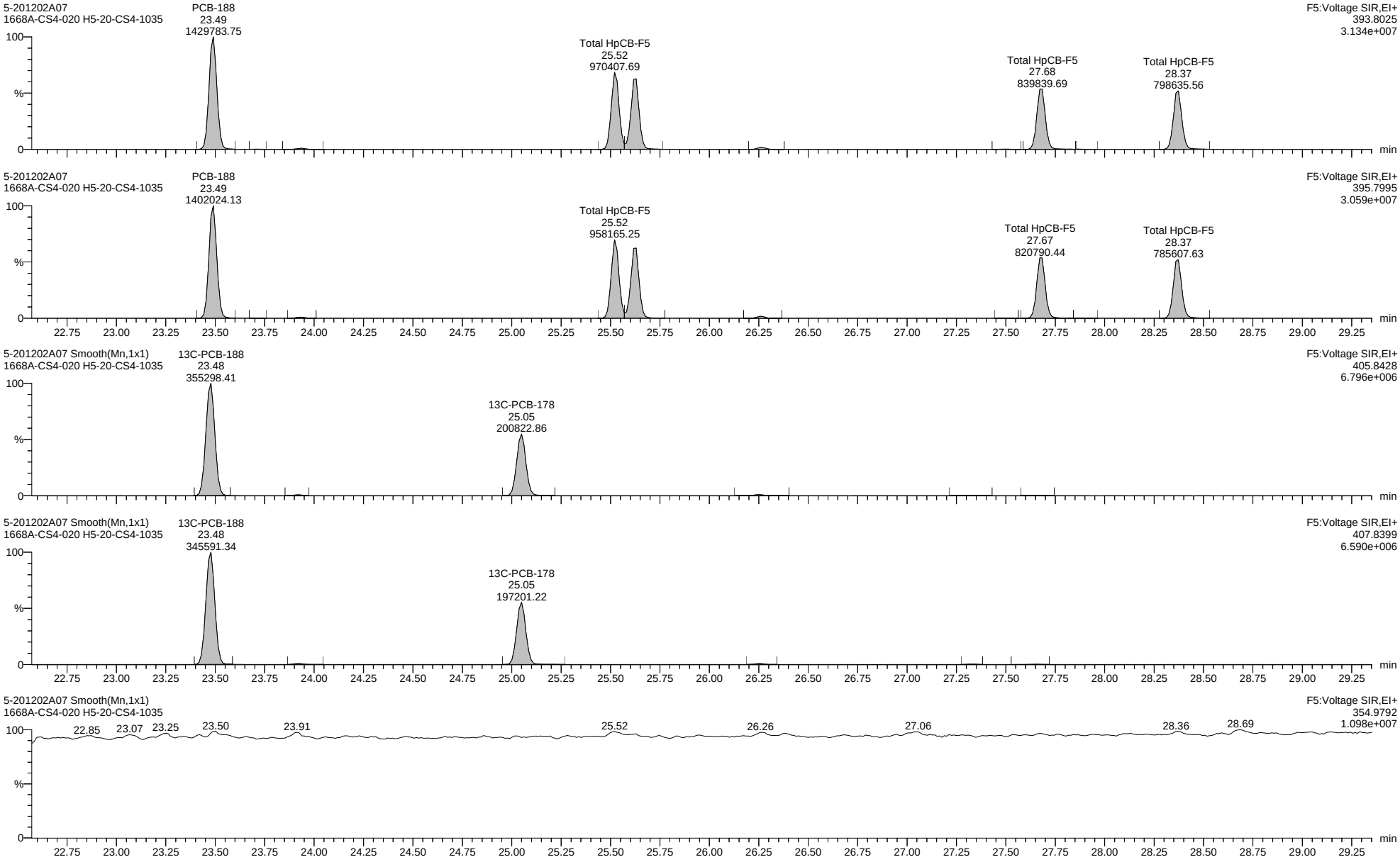

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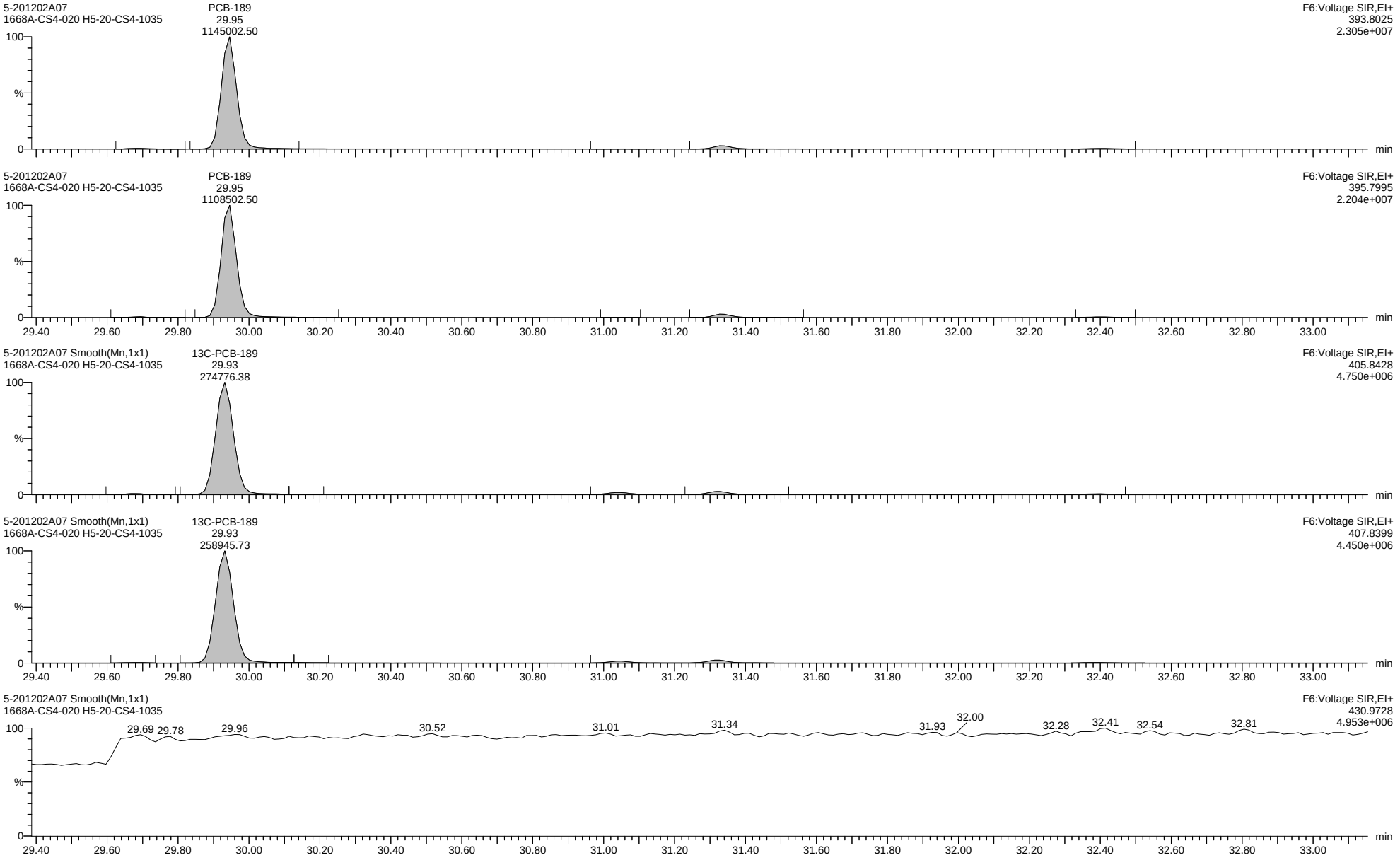

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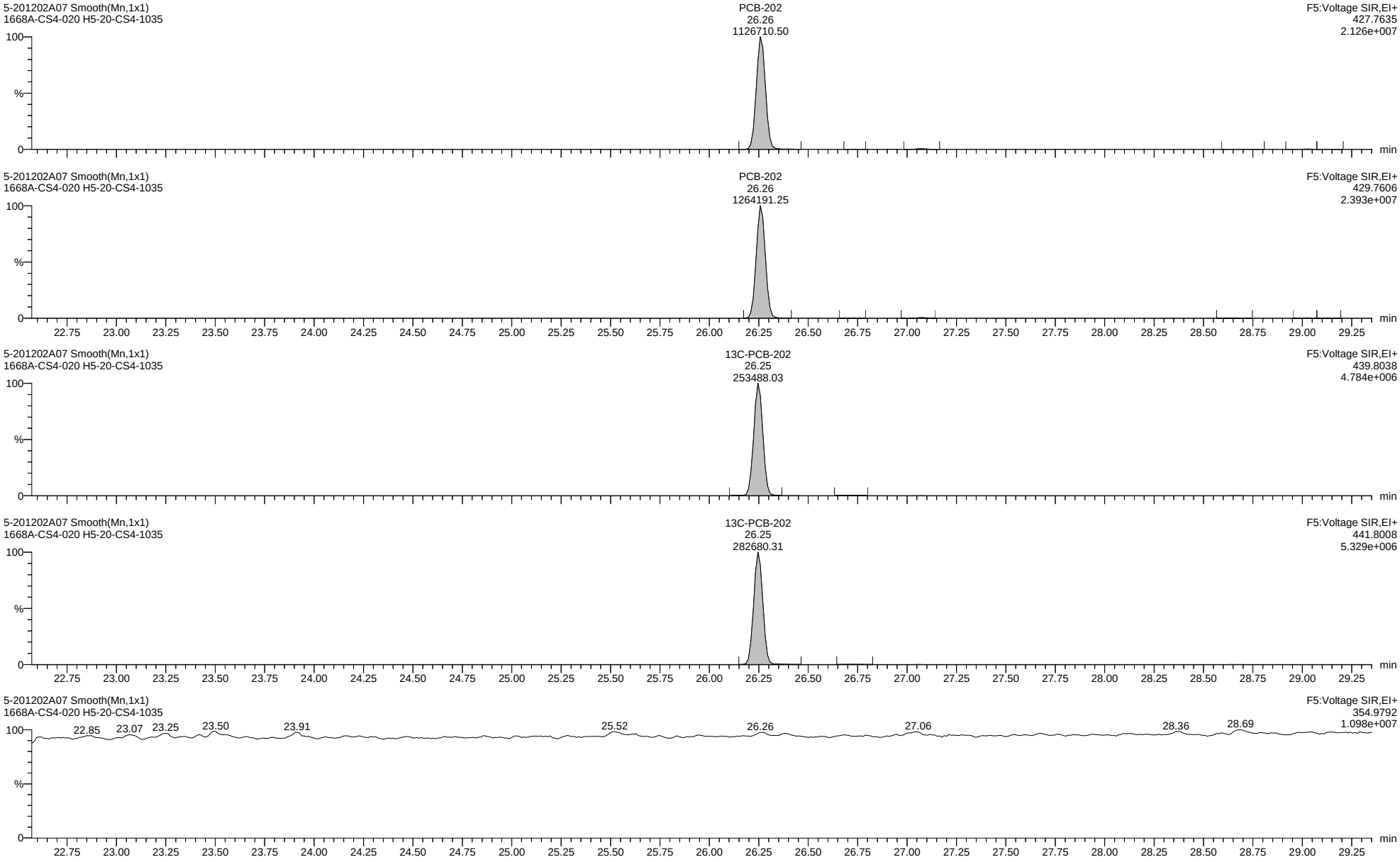

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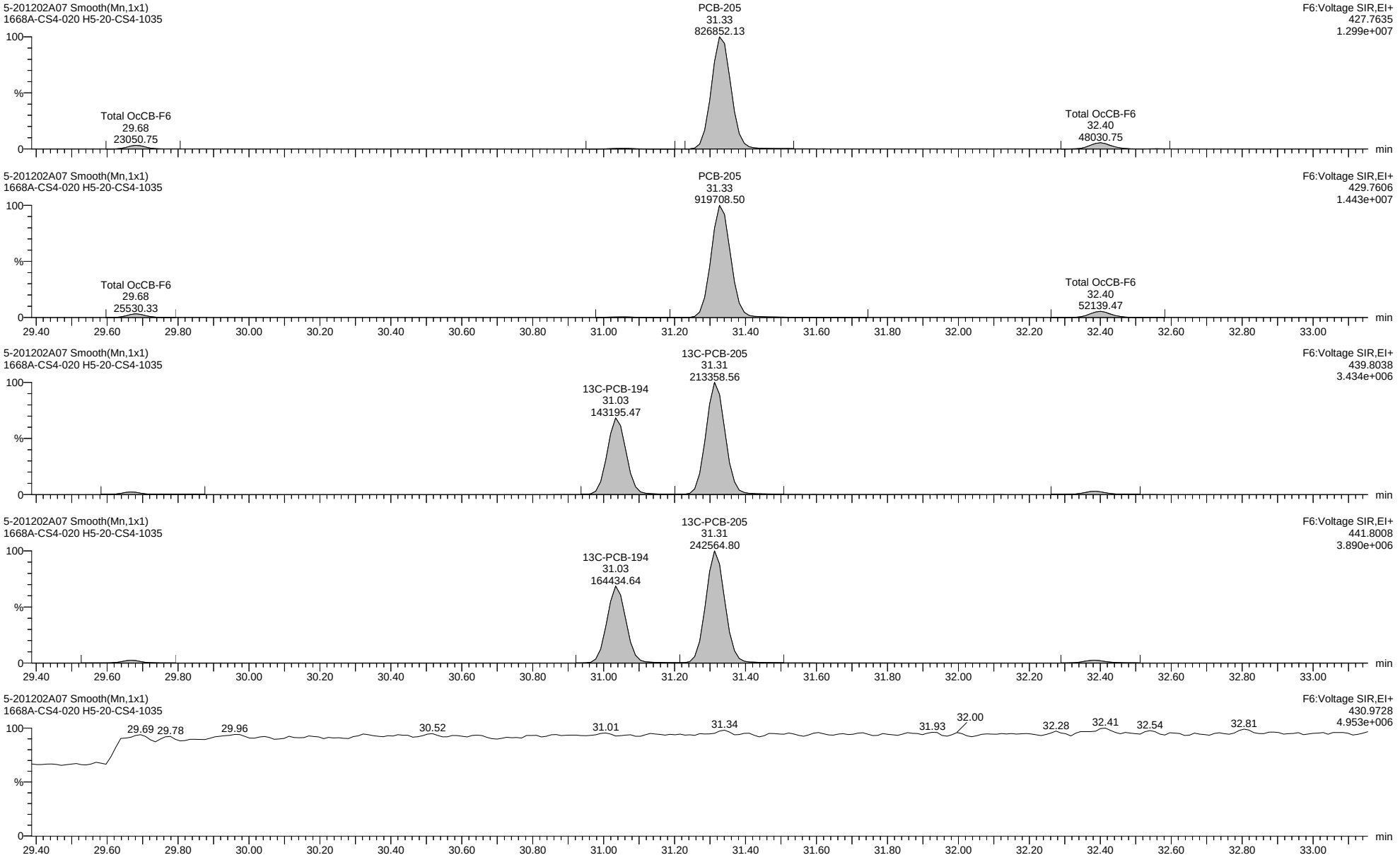

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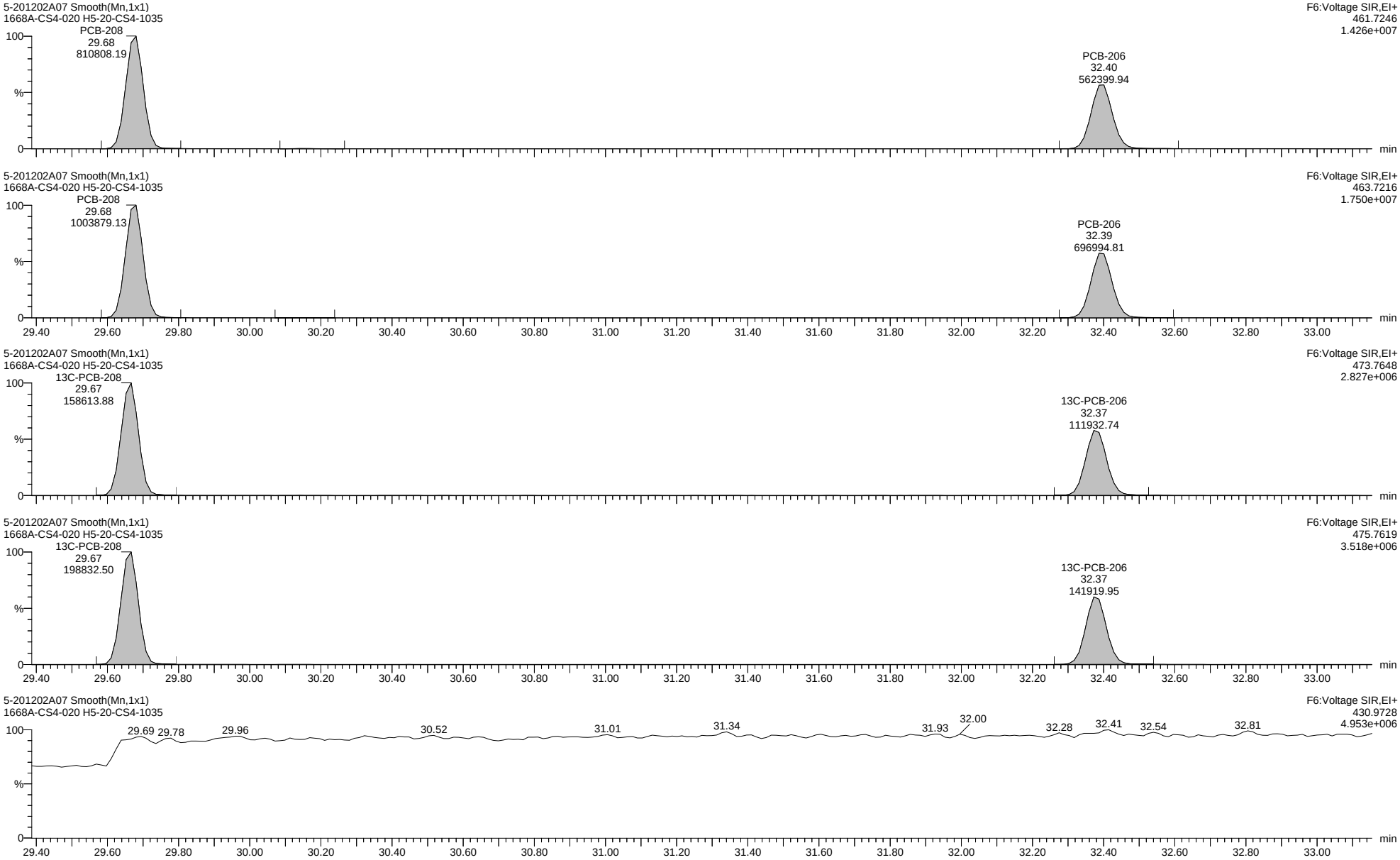

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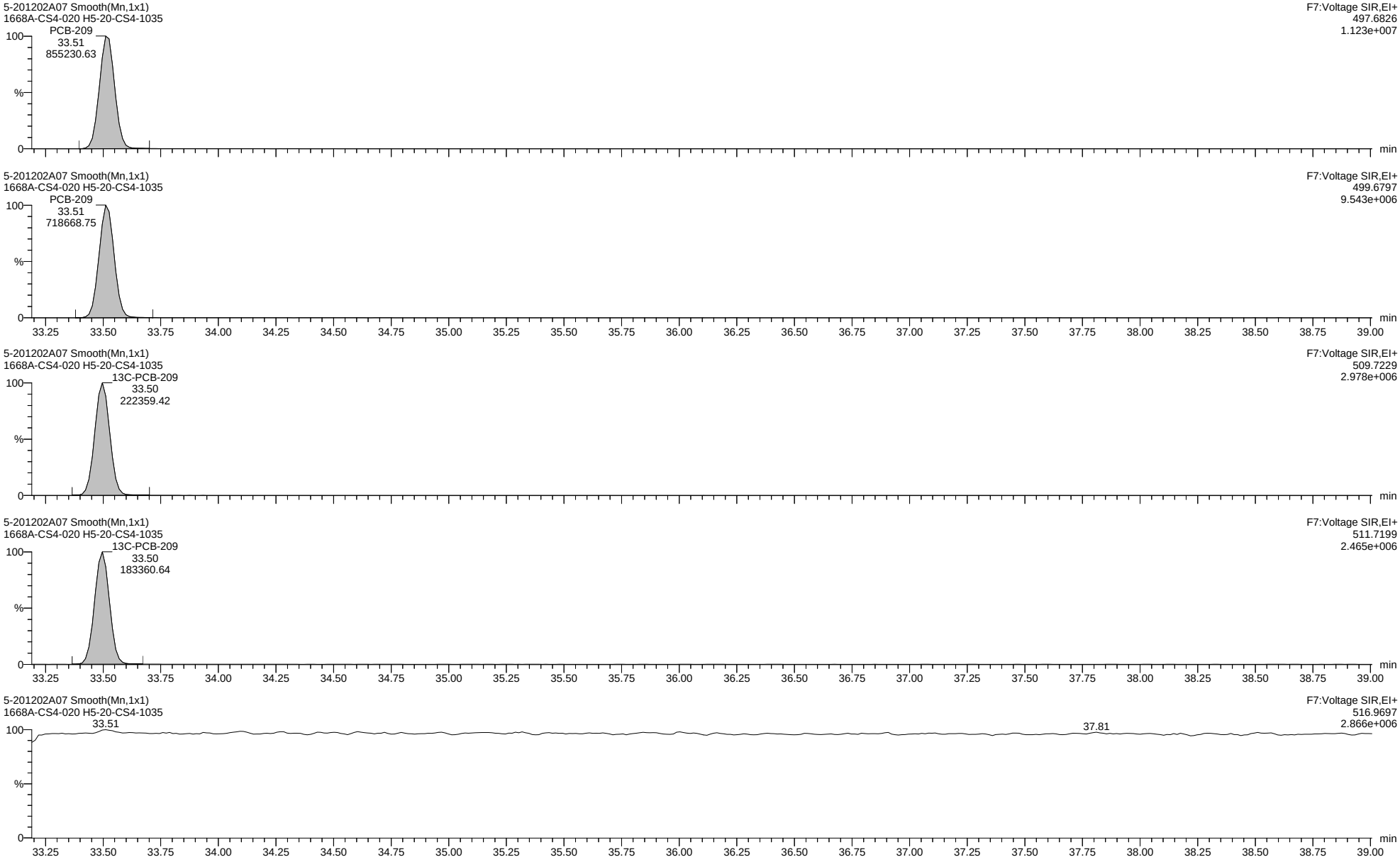

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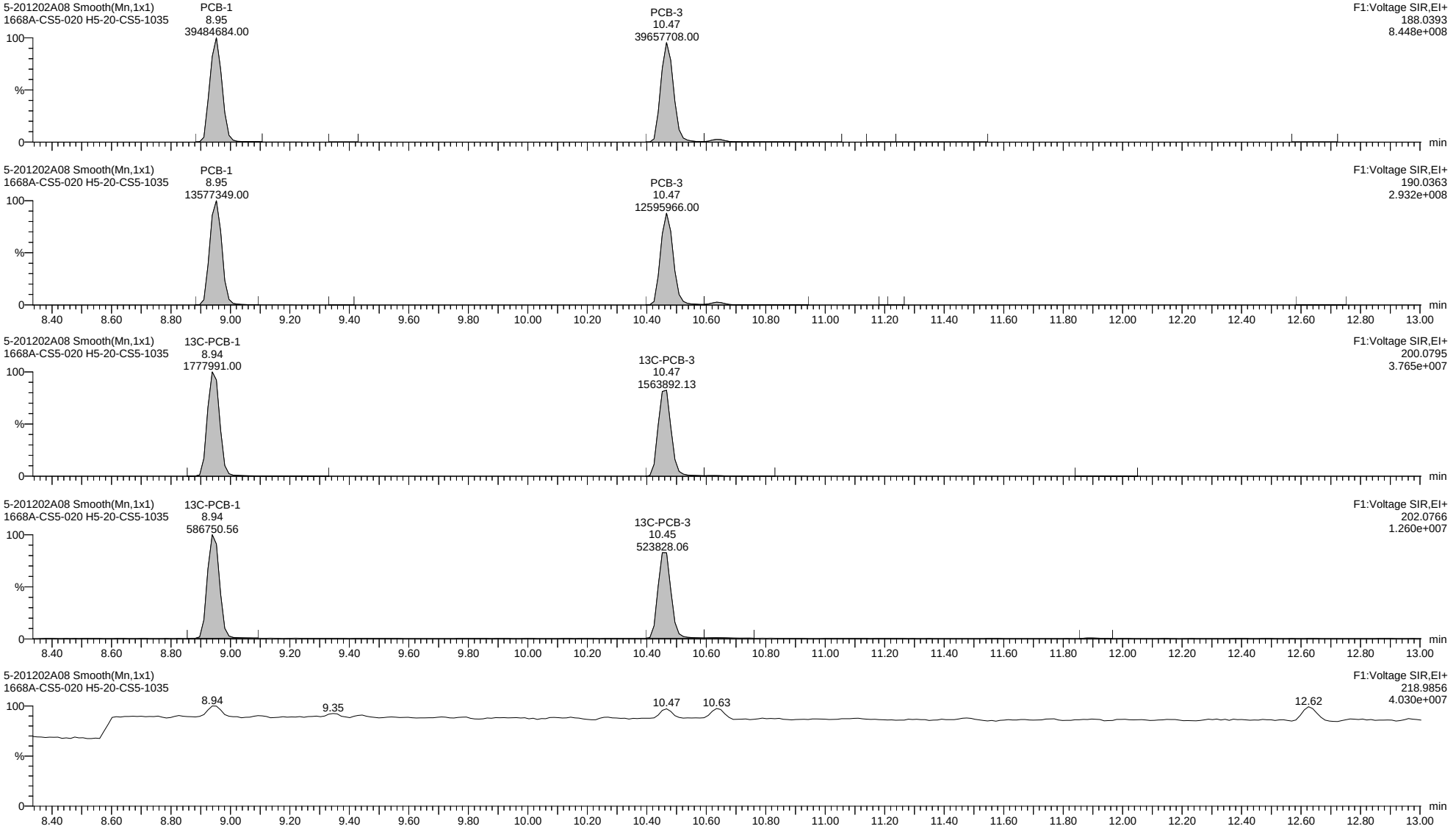

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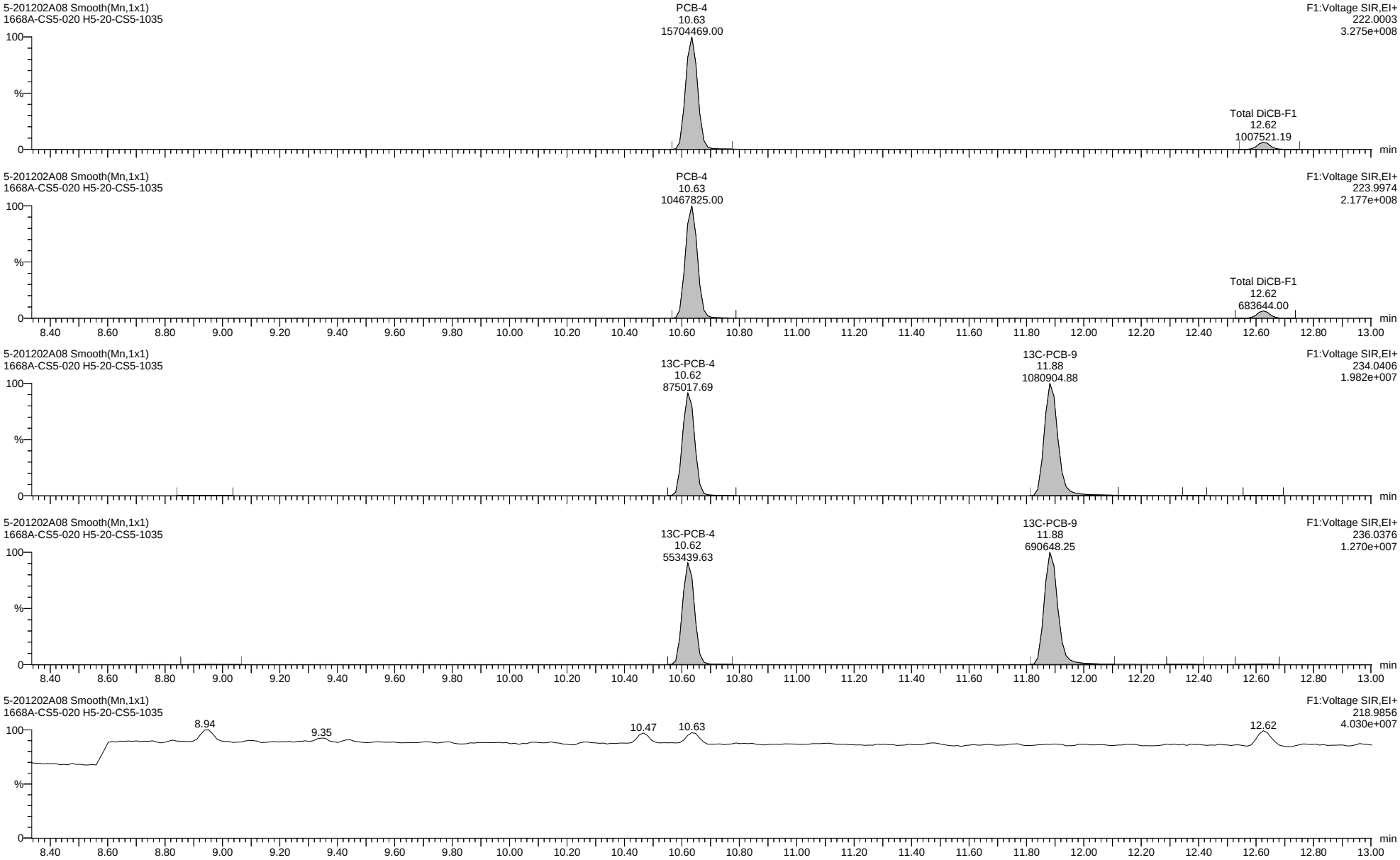

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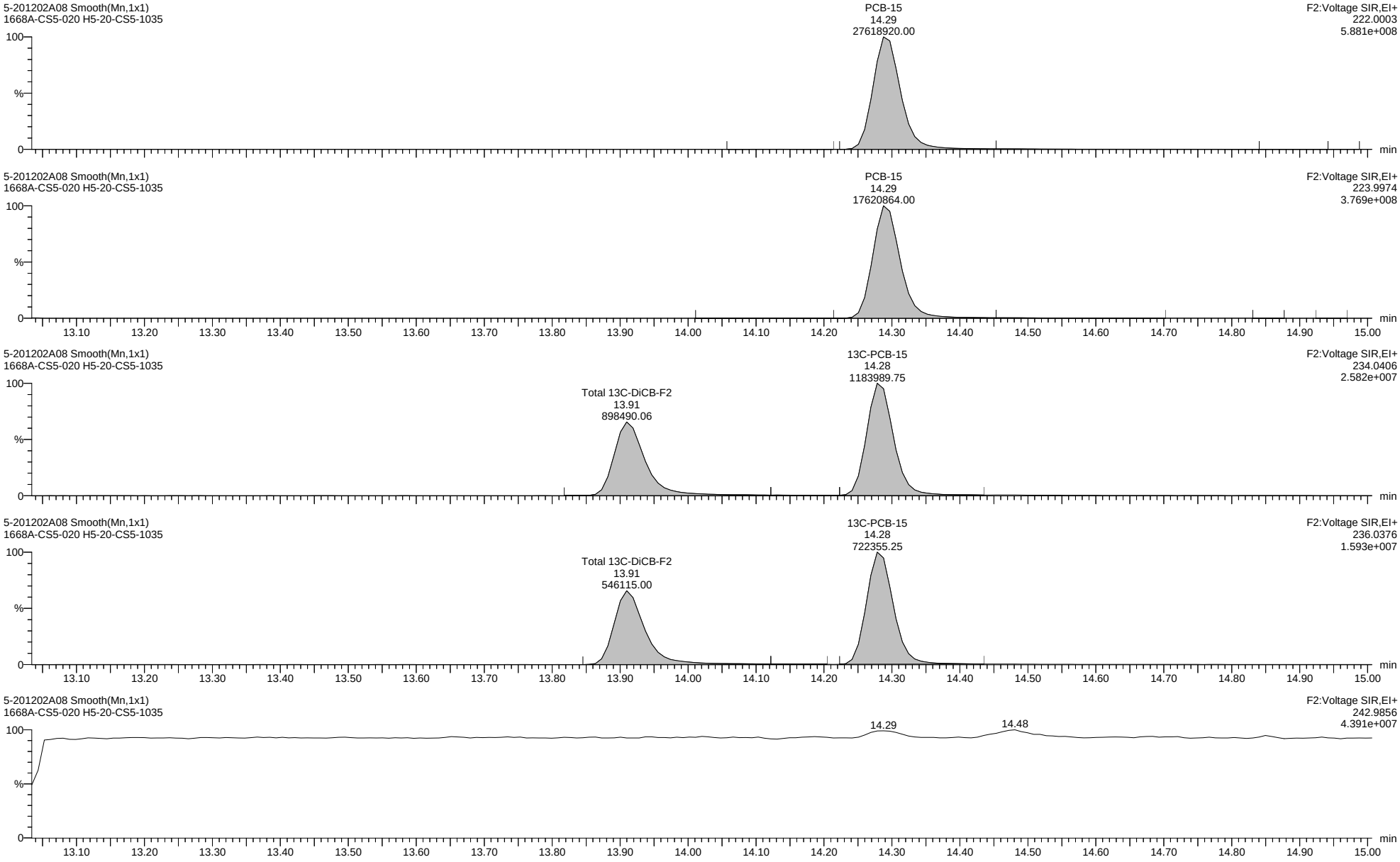

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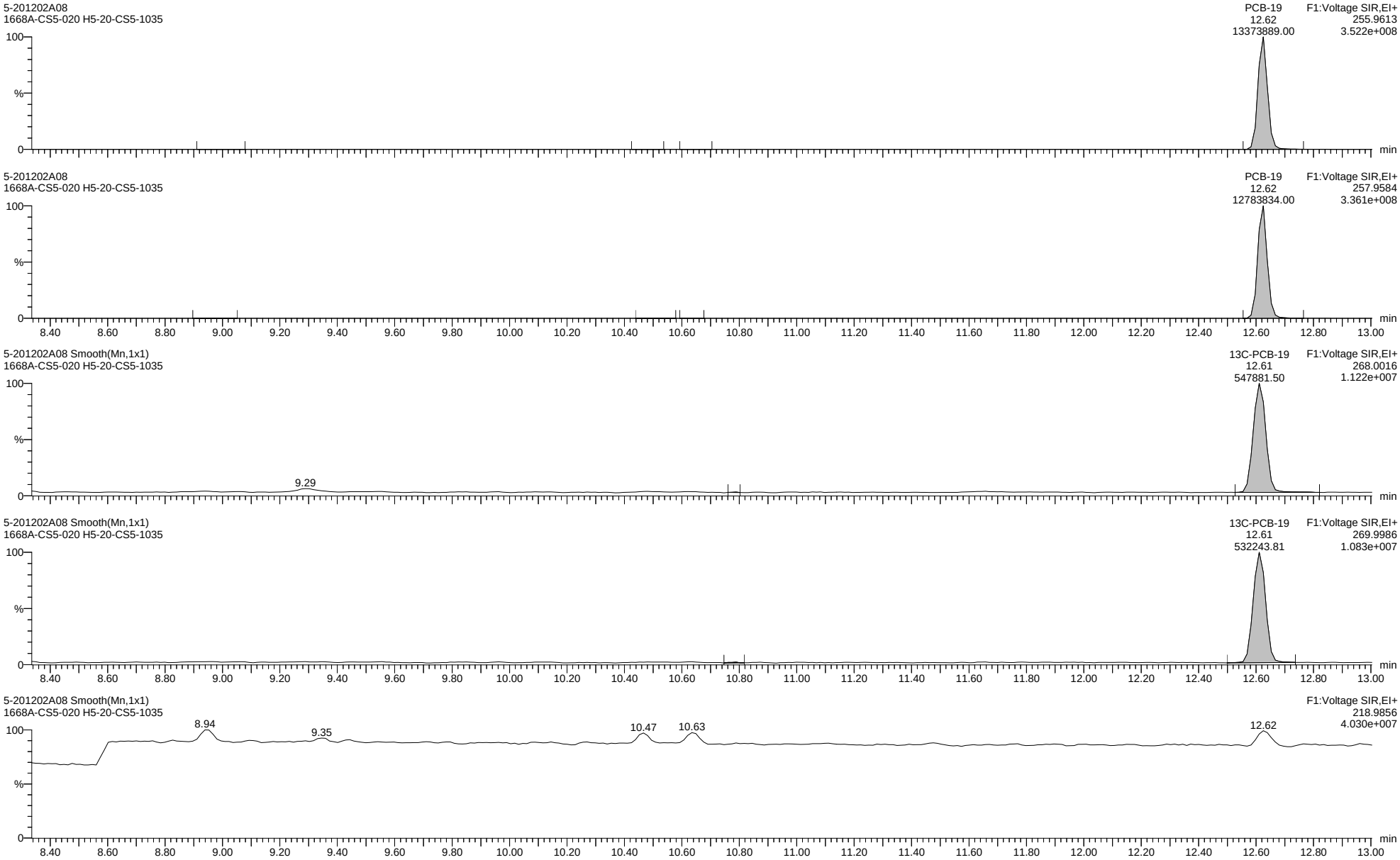

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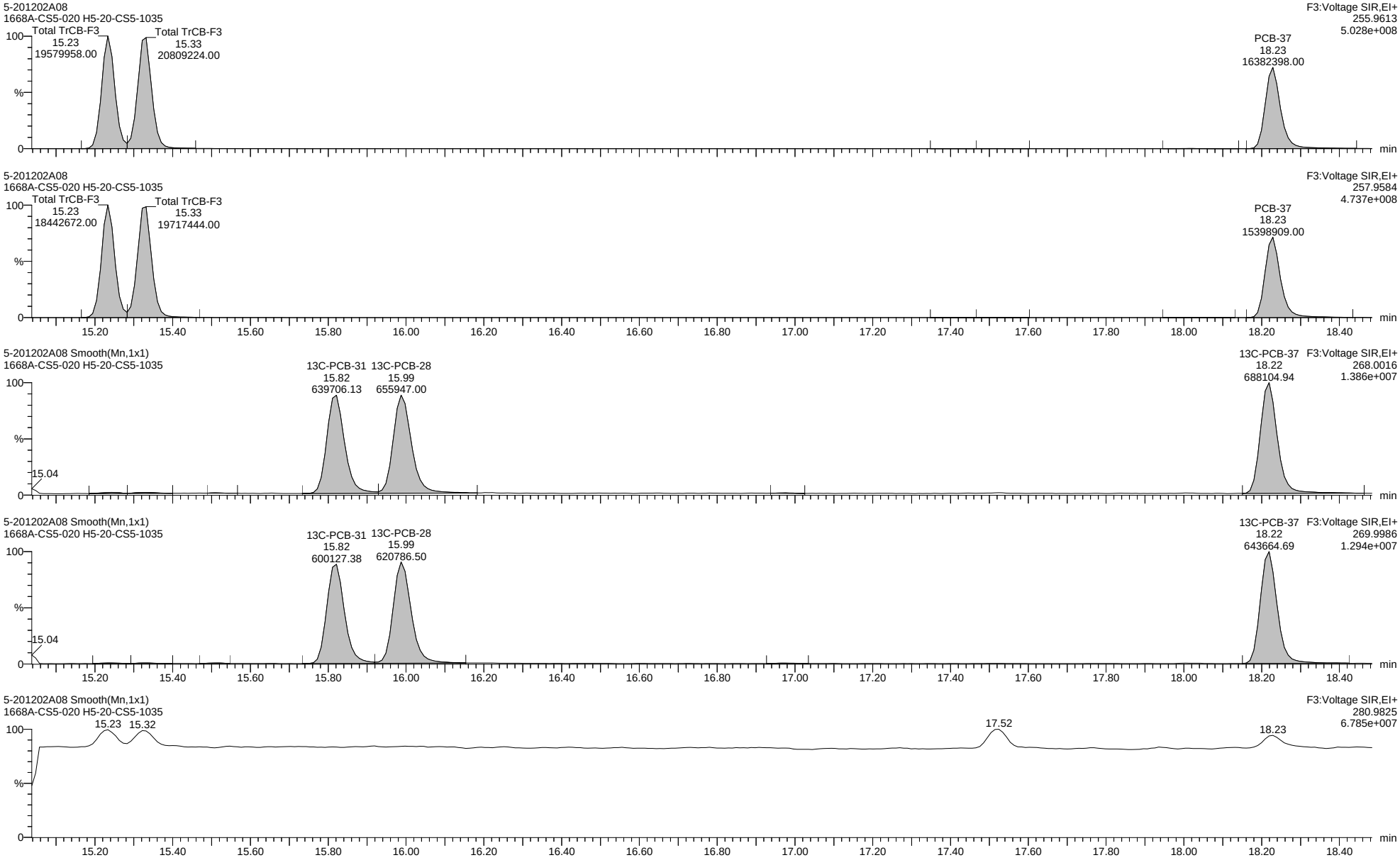

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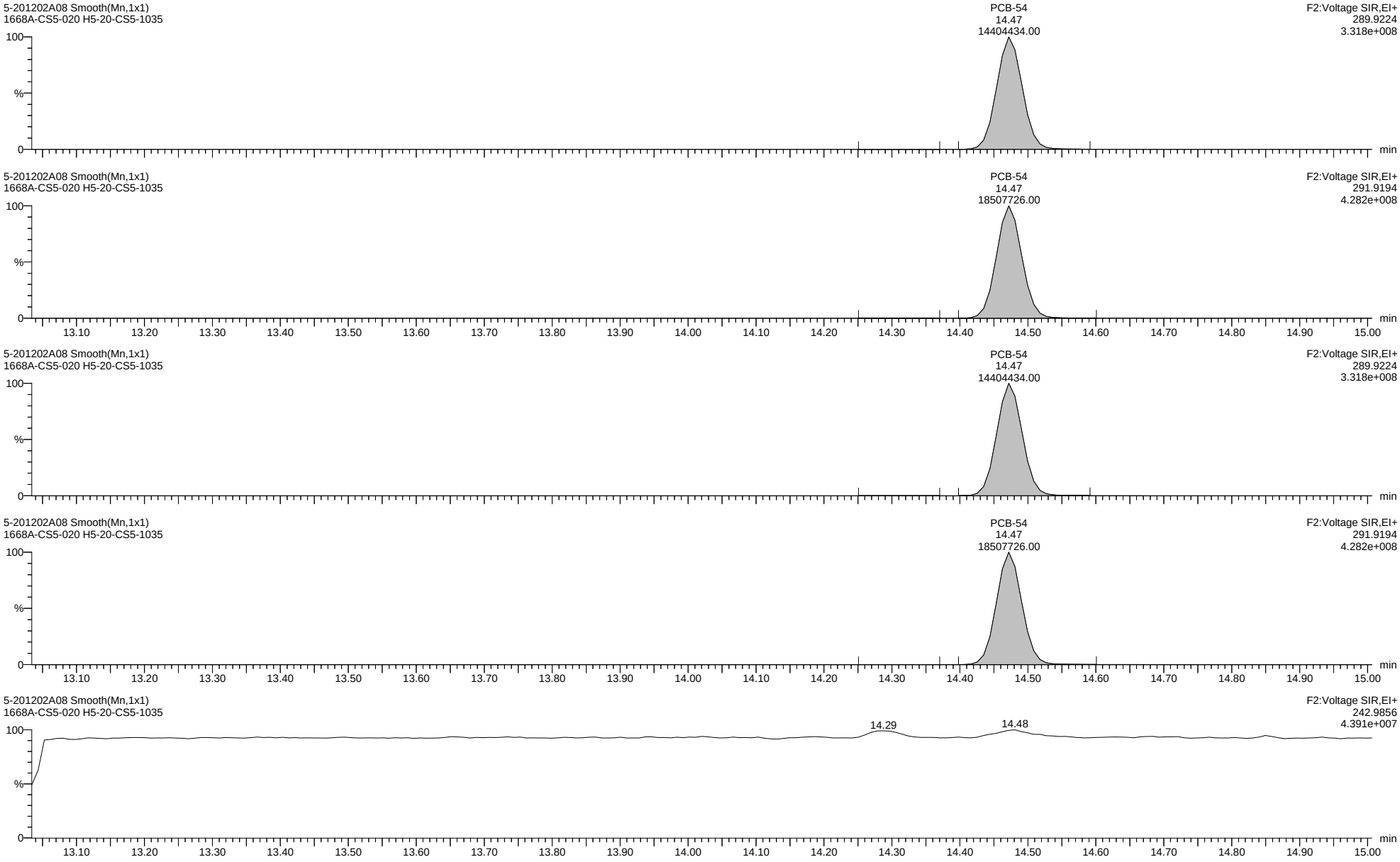

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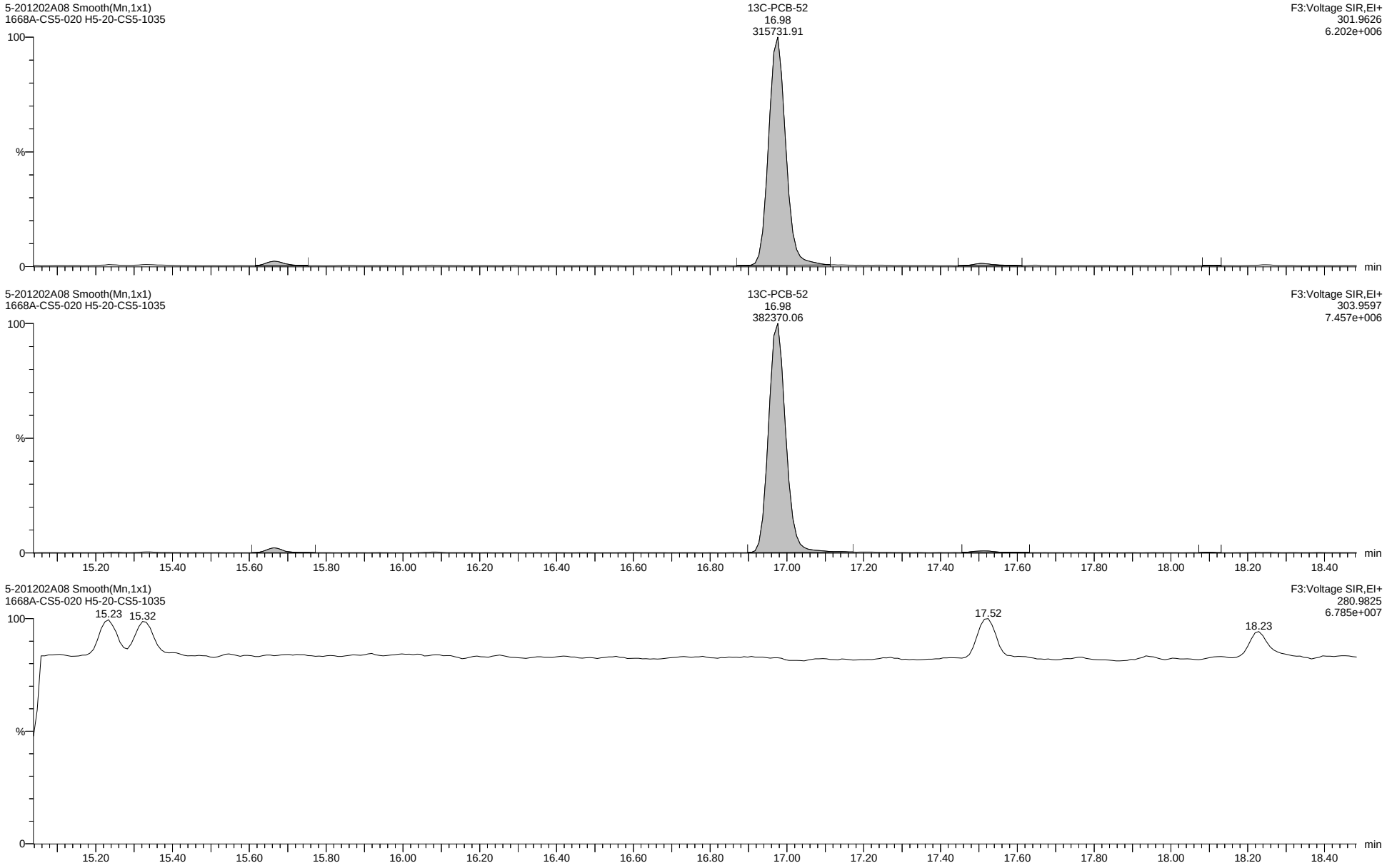

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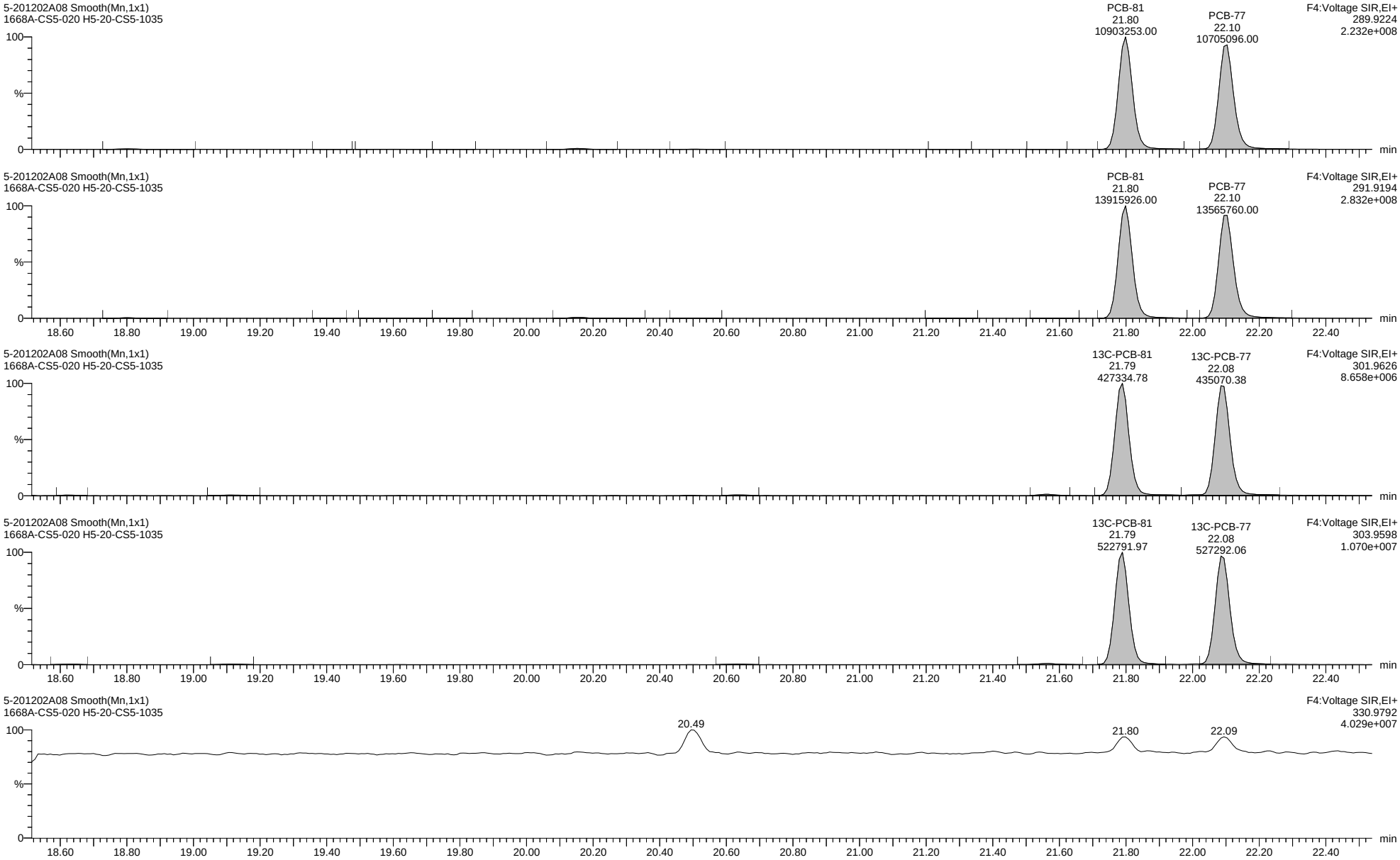

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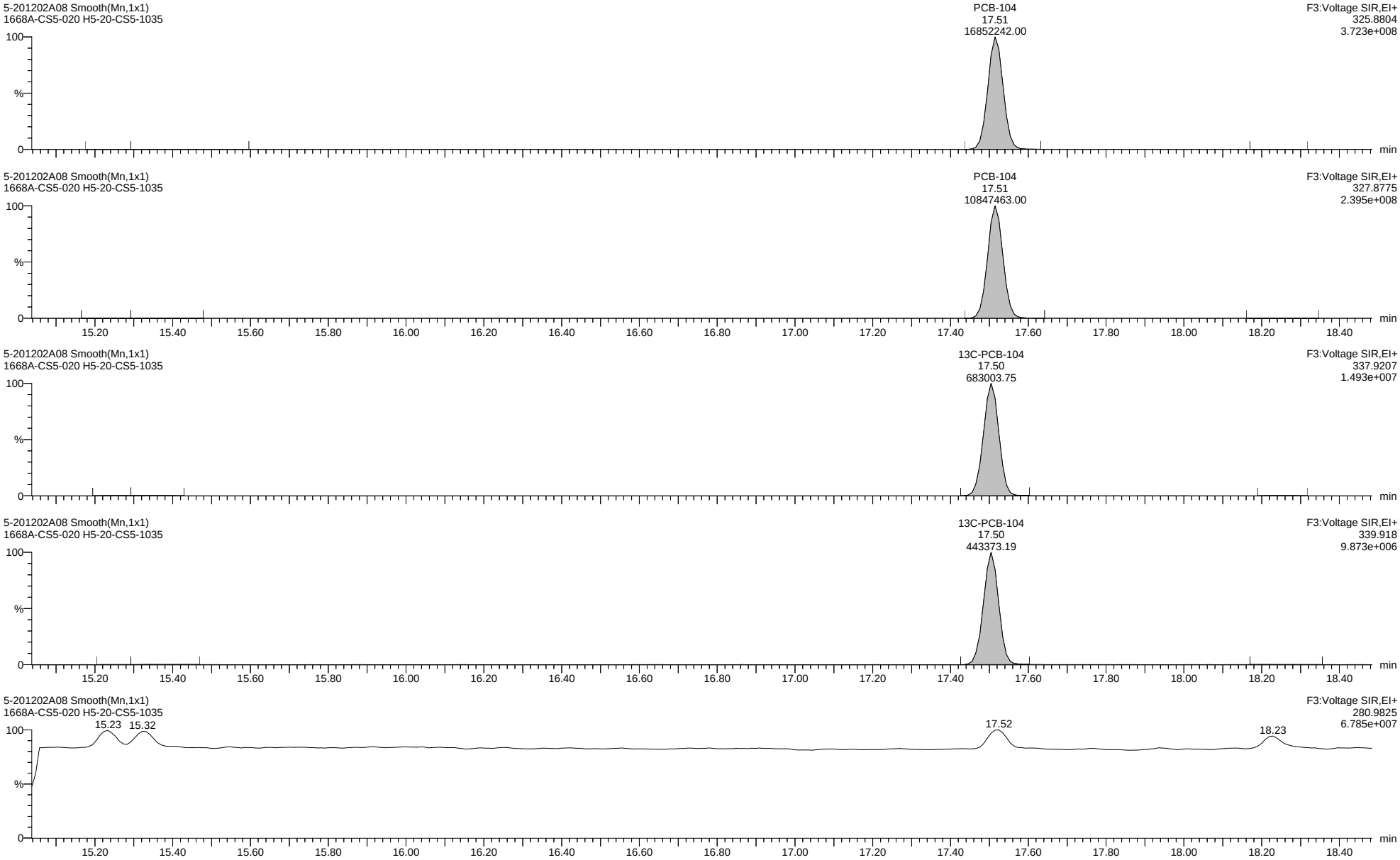

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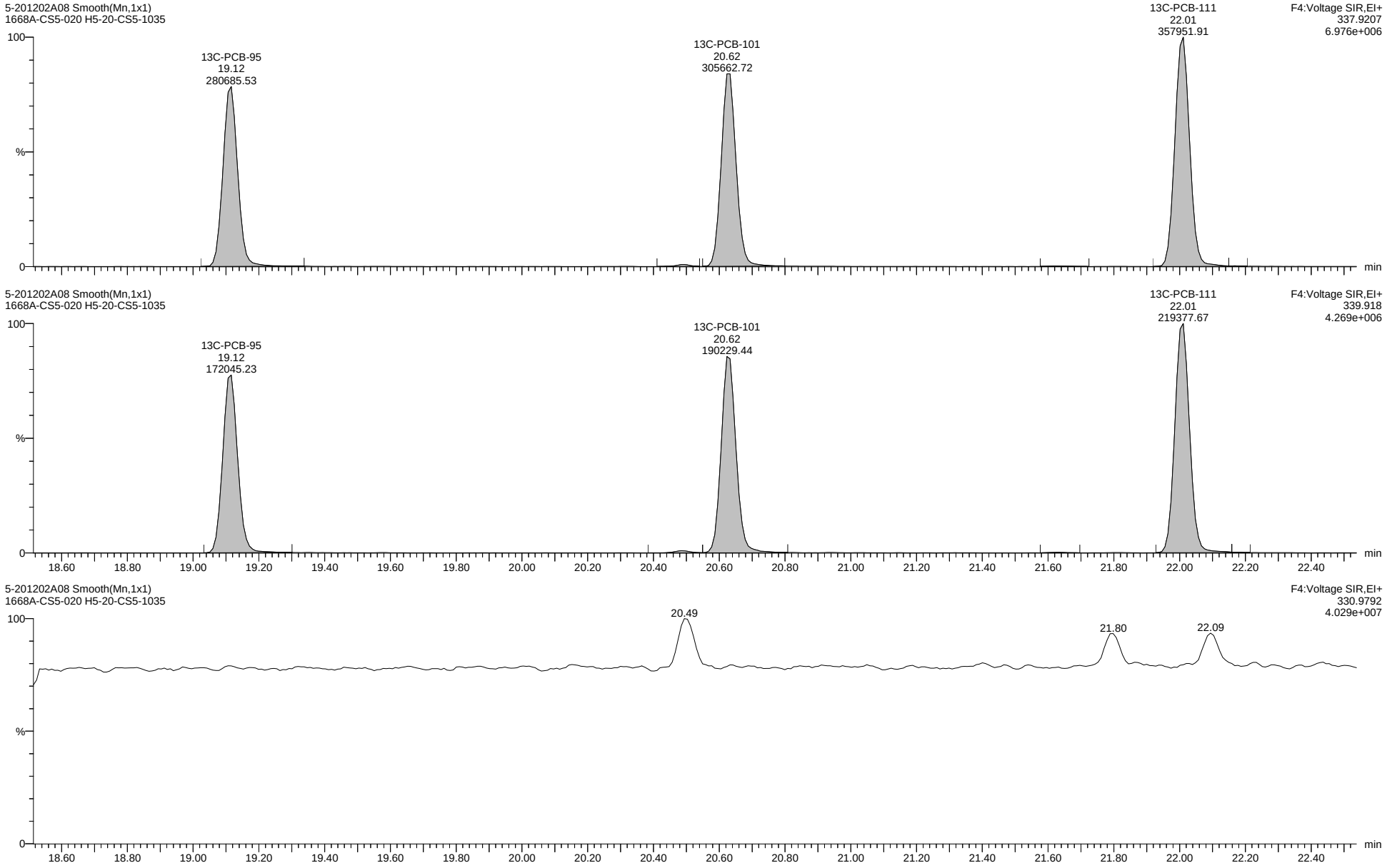

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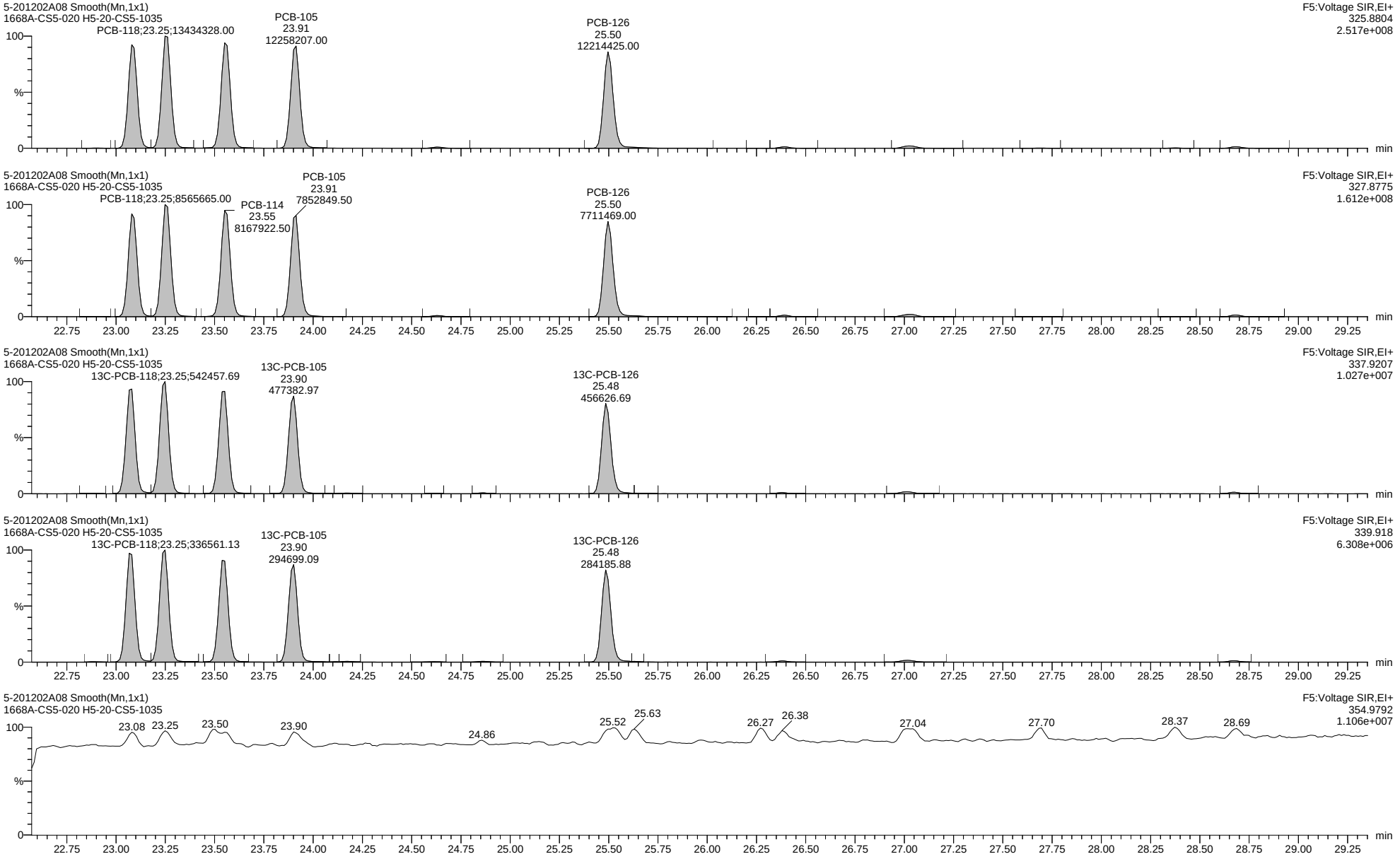

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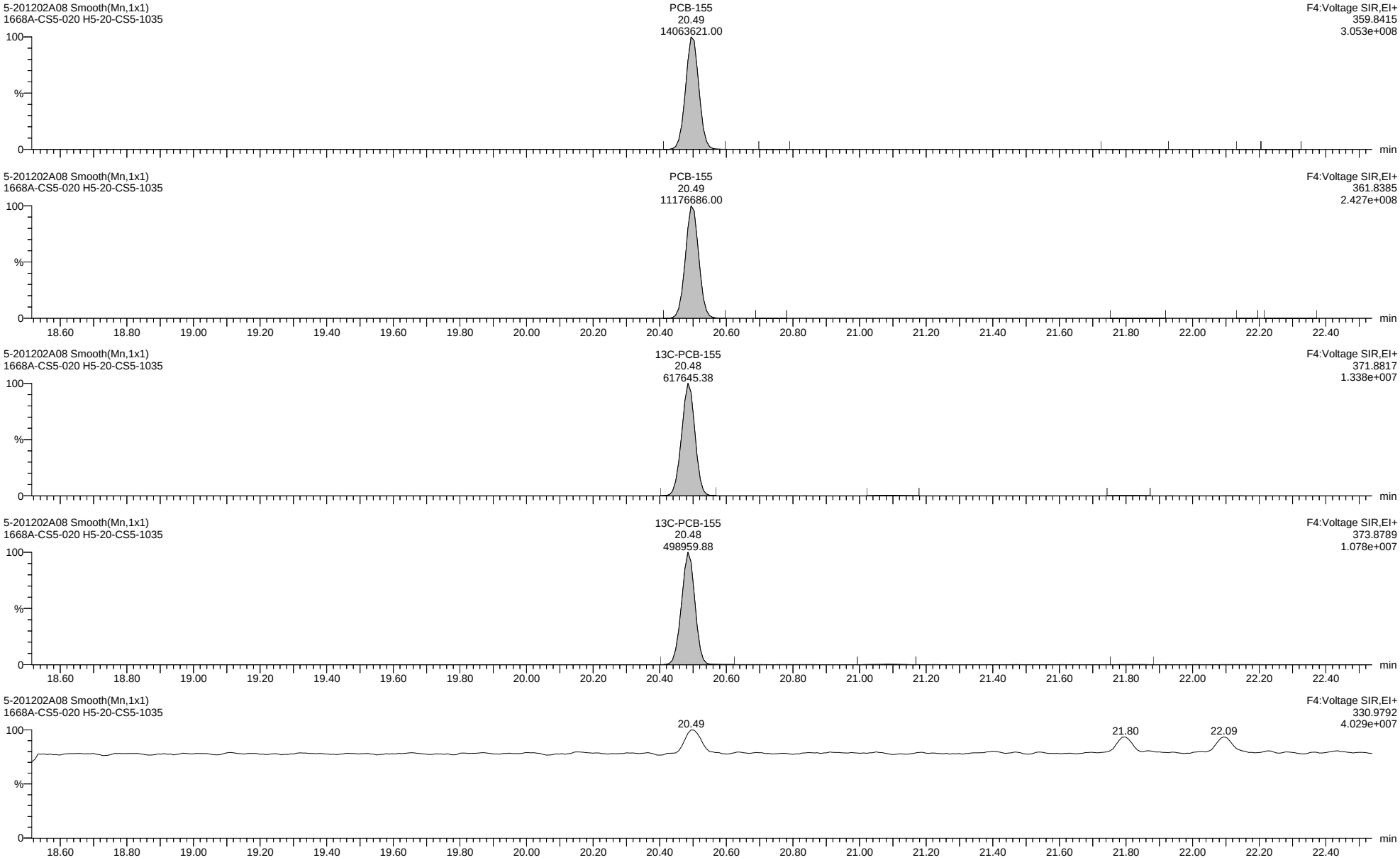

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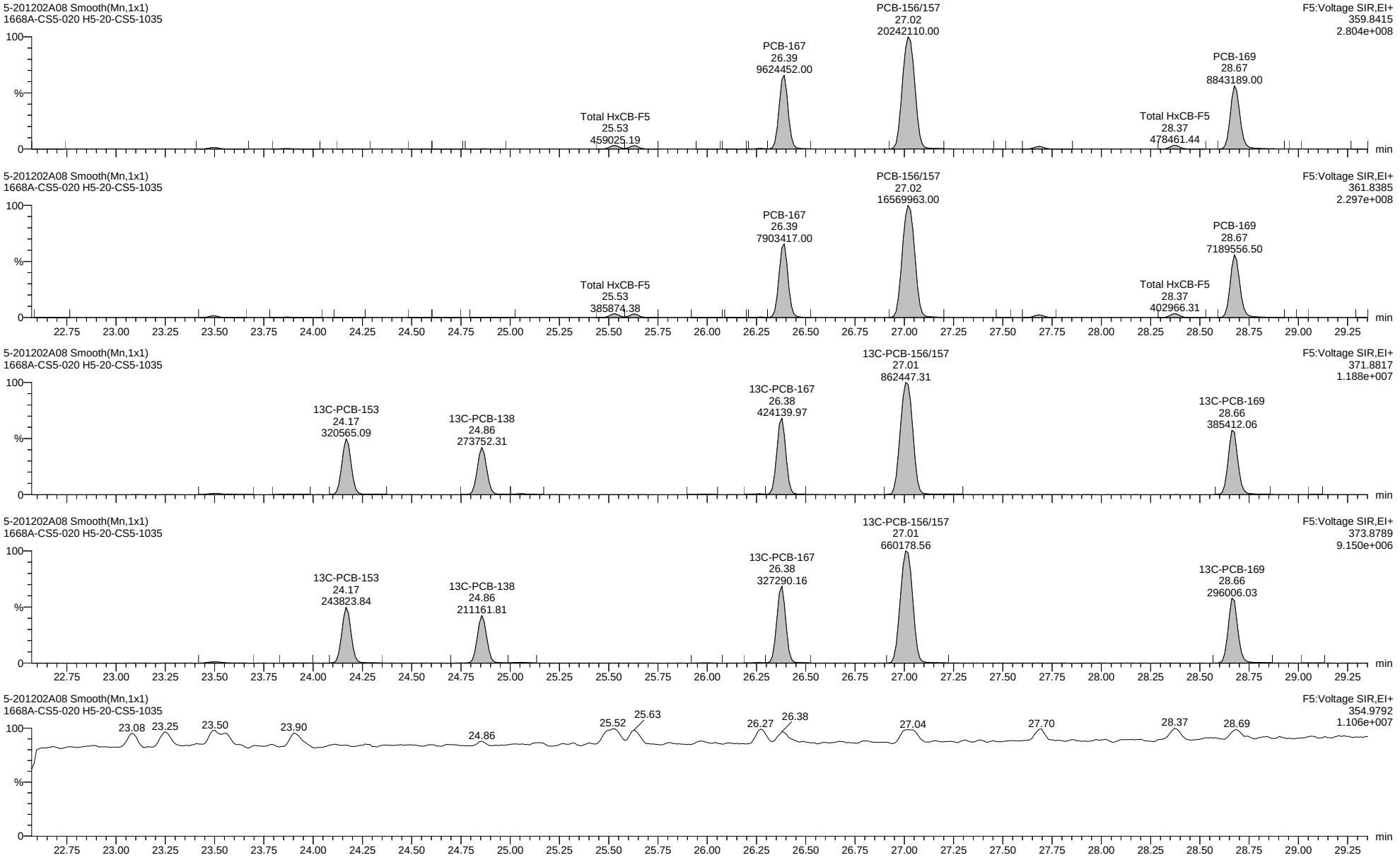

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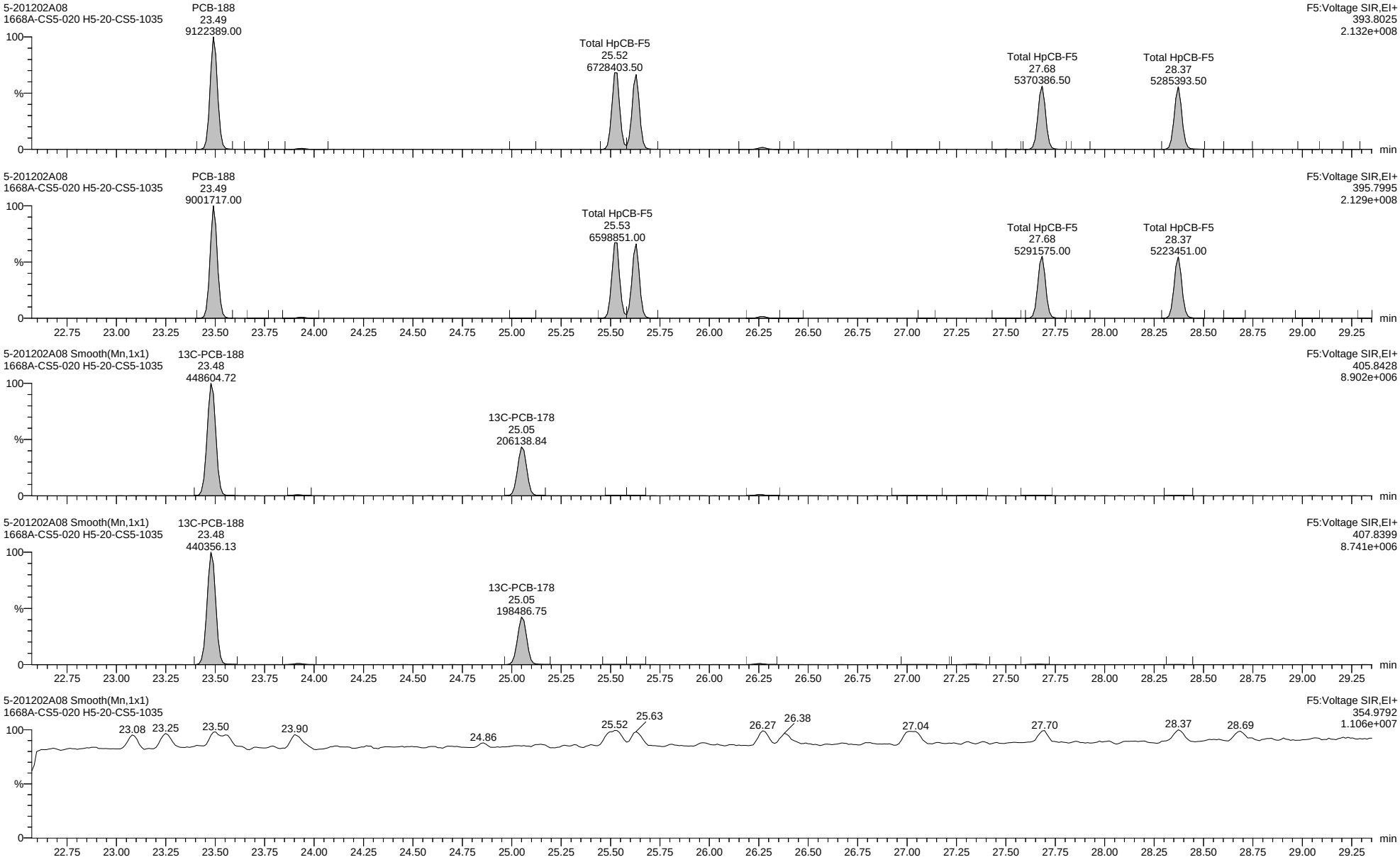
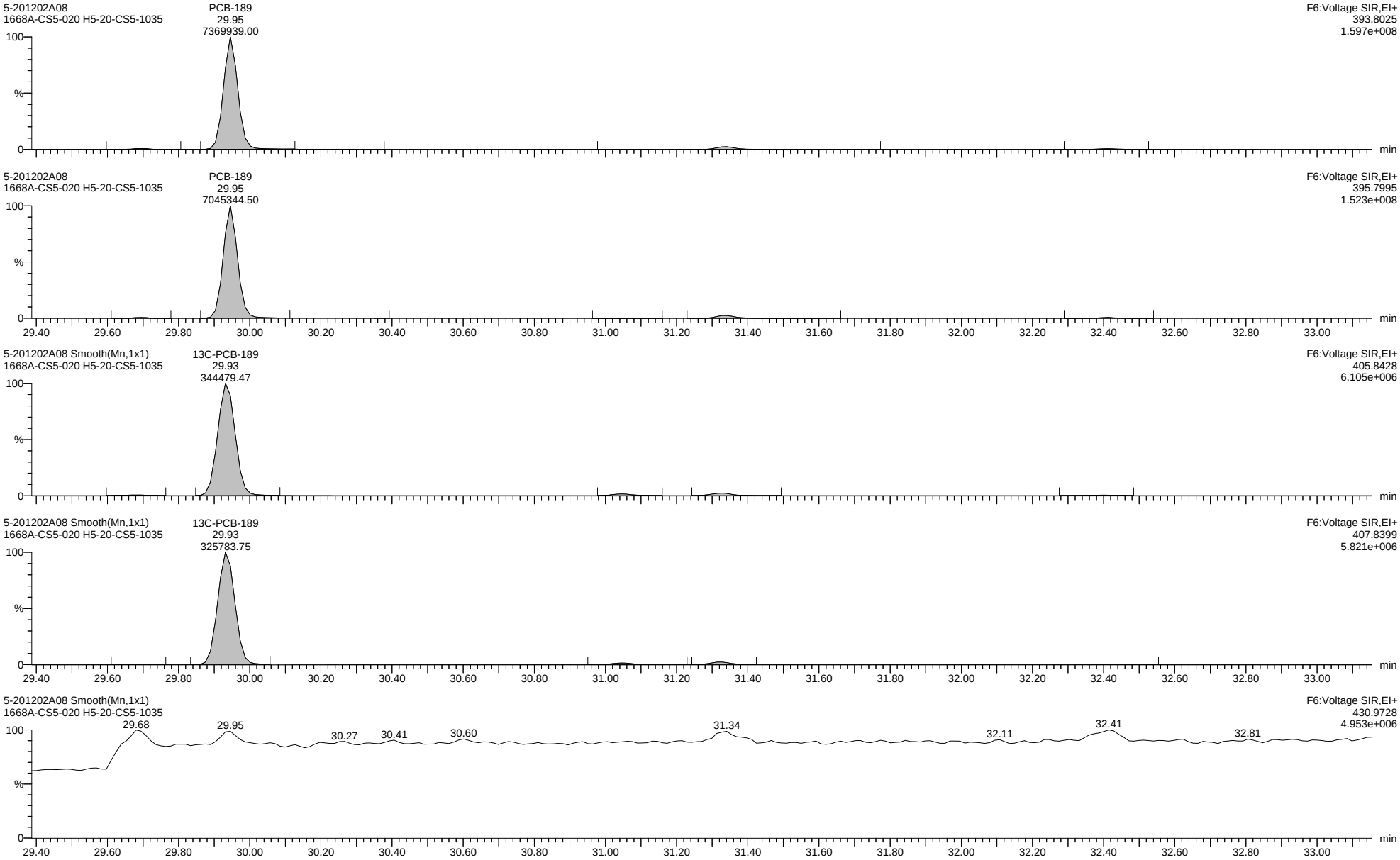


Name: 5-201202A08, Date: 02-Dec-2020, Time: 13:21:16, ID: H5-20-CS5-1035, Description: 1668A-CS5-020, Vial: Tray1:8



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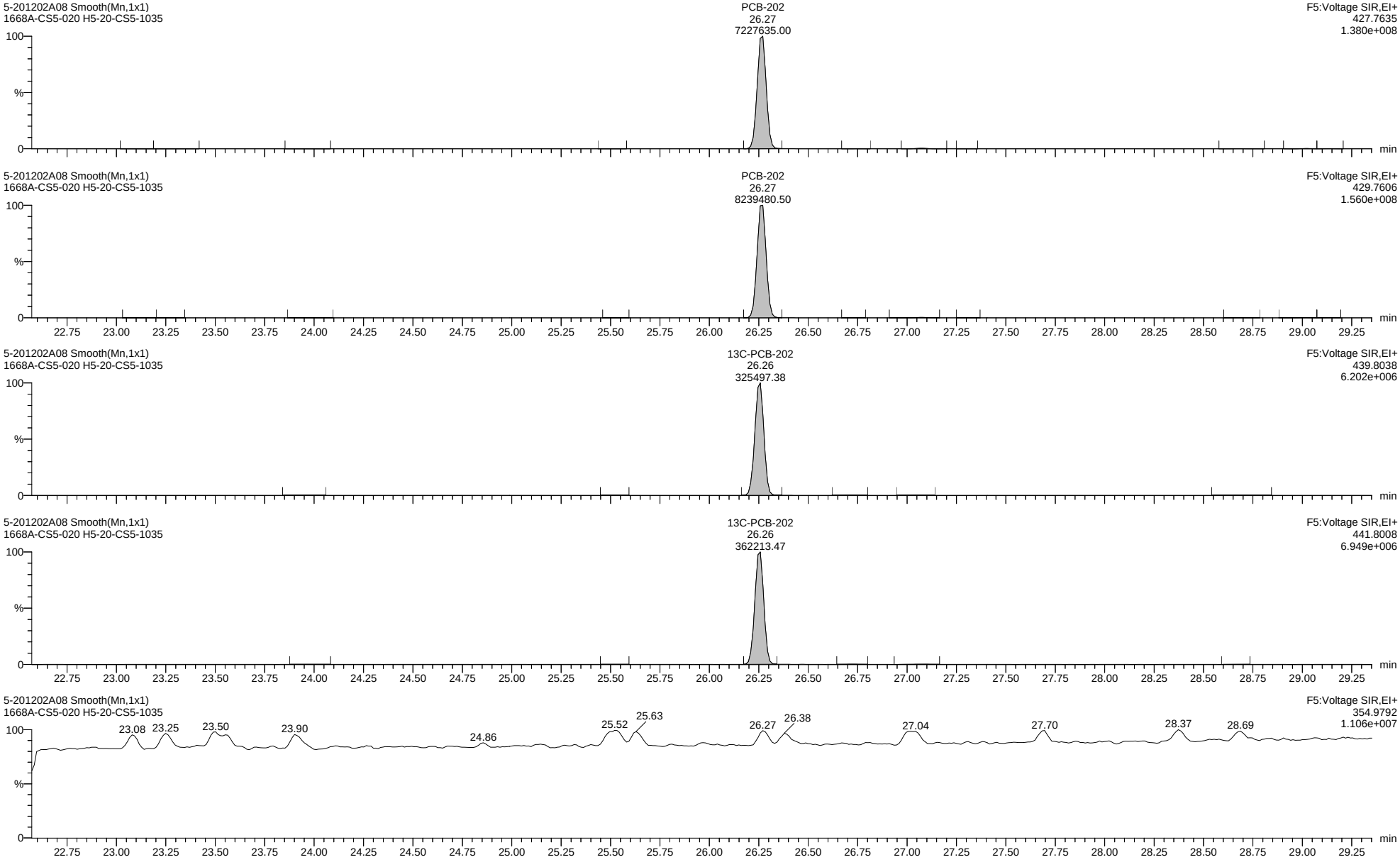
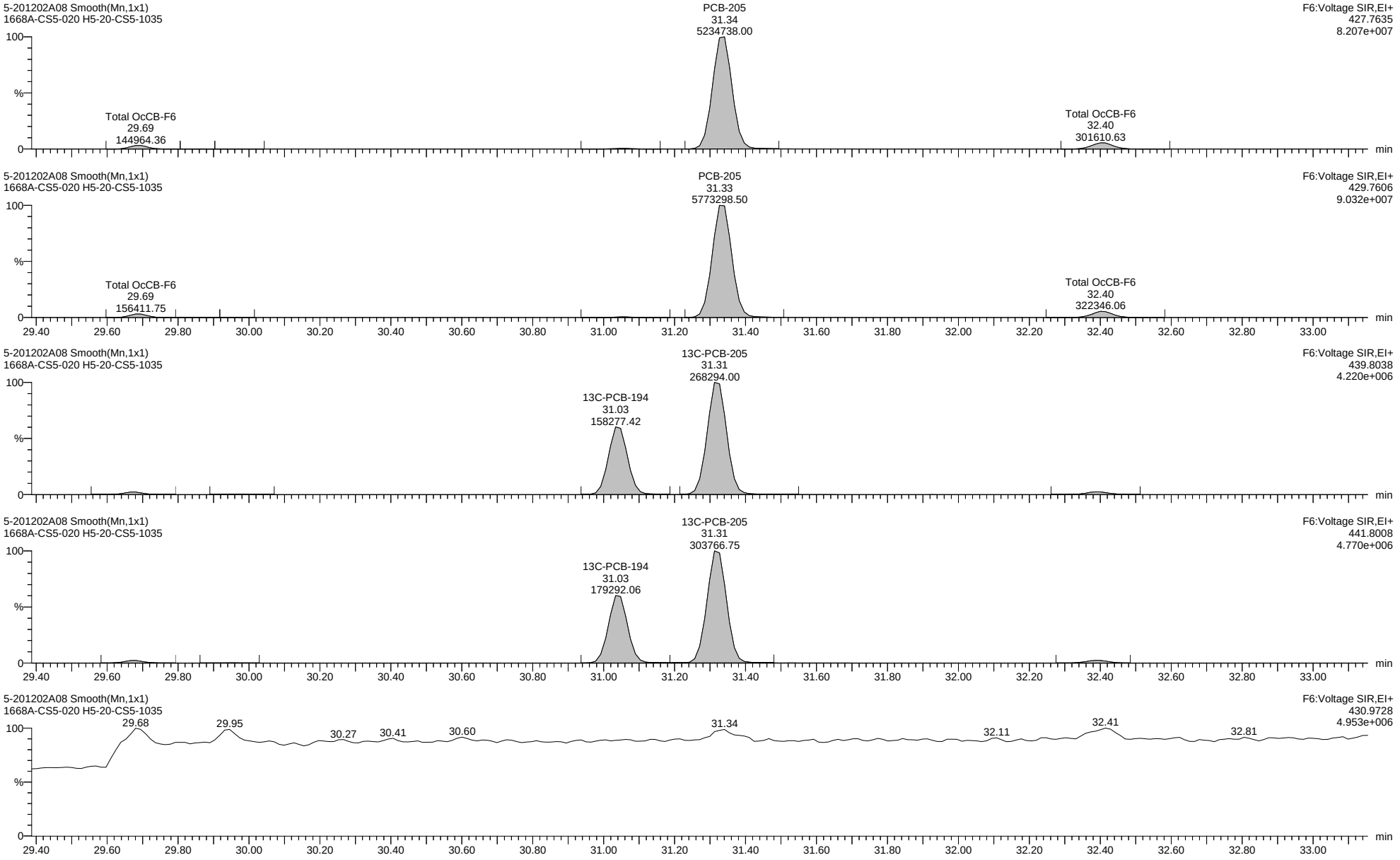


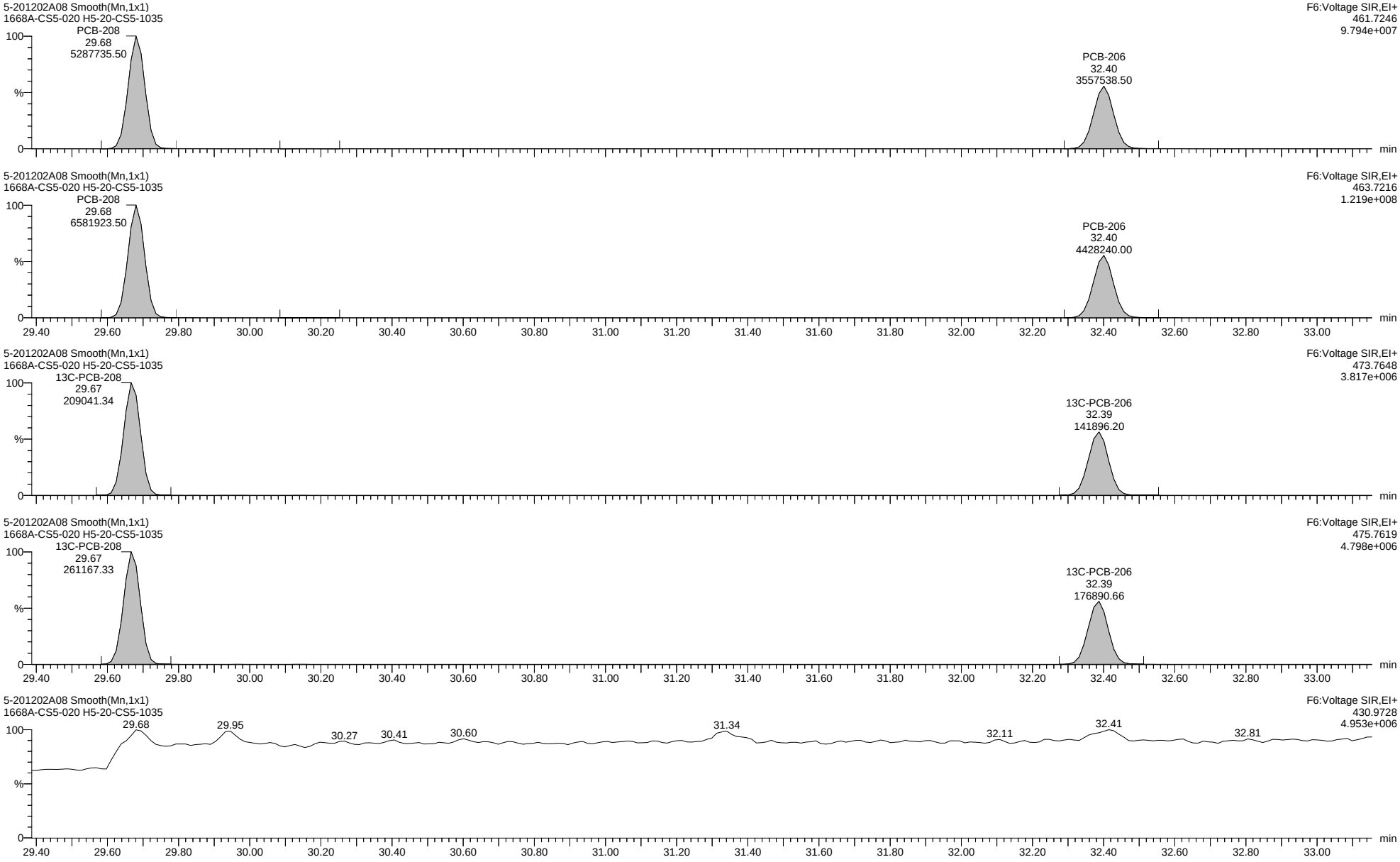
Name: 5-201202A08, Date: 02-Dec-2020, Time: 13:21:16, ID: H5-20-CS5-1035, Description: 1668A-CS5-020, Vial: Tray1:8



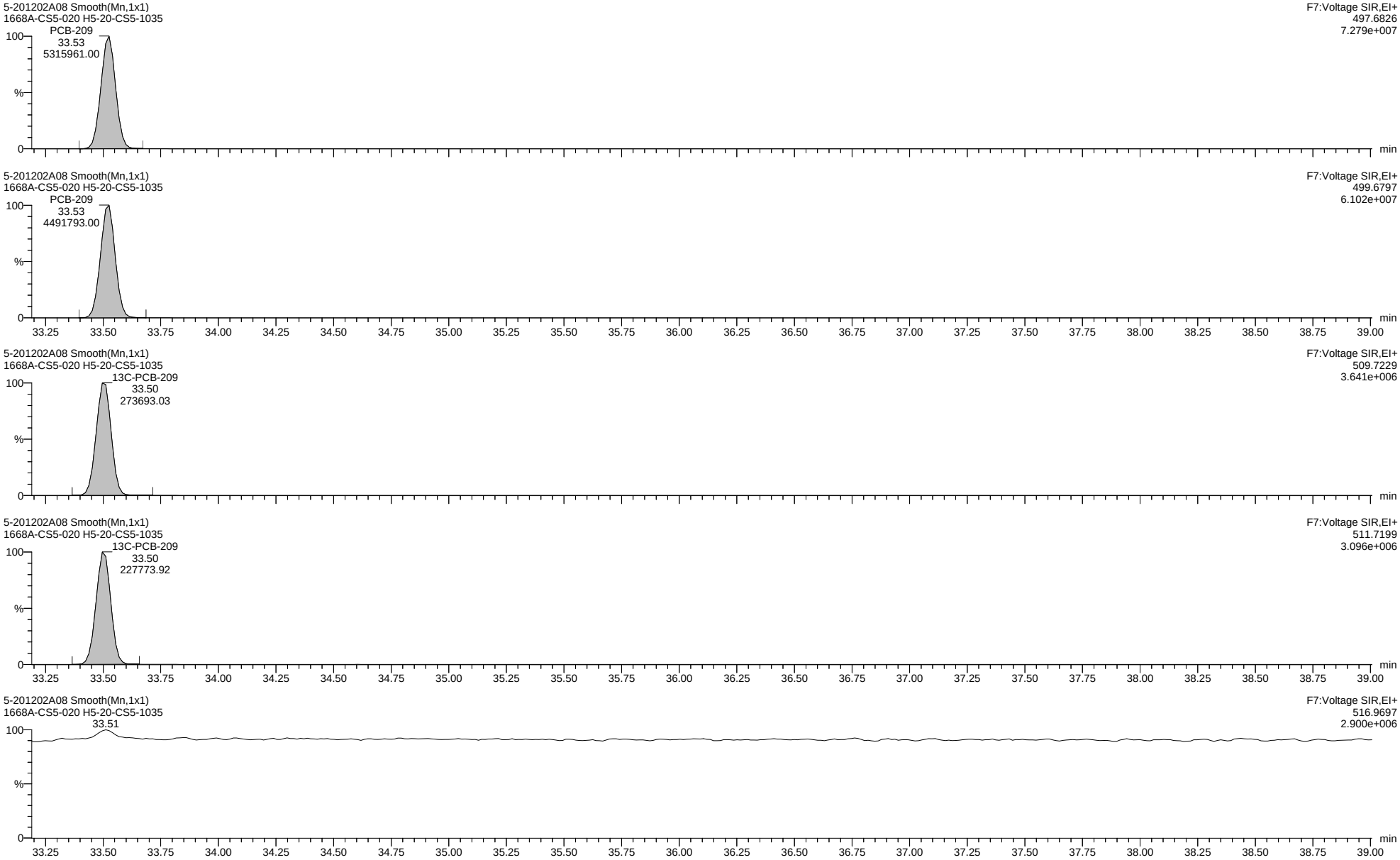
Dataset: C:\MassLynx\PCB.PRO\Results\Local\2020-ARCHIVE\2020-December\5-201202A-ICAL.qld

Last Altered: Wednesday, December 02, 2020 16:02:34 Eastern Standard Time
Printed: Wednesday, April 28, 2021 10:50:51 Eastern Daylight Time

Name: 5-201202A08, Date: 02-Dec-2020, Time: 13:21:16, ID: H5-20-CS5-1035, Description: 1668A-CS5-020, Vial: Tray1:8



Name: 5-201202A08, Date: 02-Dec-2020, Time: 13:21:16, ID: H5-20-CS5-1035, Description: 1668A-CS5-020, Vial: Tray1:8



Quantify Sample Summary Report **MassLynx MassLynx V4.1 SCN 901**

Dataset: C:\MassLynx\PCB.PRO\Results\Local\2020-ARCHIVE\2020-December\5-201202A-RS.qld

Last Altered: Wednesday, December 02, 2020 16:15:00 Eastern Standard Time
Printed: Wednesday, April 28, 2021 10:54:06 Eastern Daylight Time

Method: C:\MassLynx\PCB.PRO\MethDB\1668-OCTYL-1-ICAL-201202A.mdb 07 Feb 2020 11:57:21
Calibration: C:\MassLynx\PCB.PRO\CurveDB\5-201202A-ICAL.cdb 02 Dec 2020 15:02:34

Name: 5-201202A09, Date: 02-Dec-2020, Time: 14:03:28, ID: H5-20-RS1-1035, Description: 1668A-RS1-020, Vial: Tray1:9

	Target Analyte	#Hom	Total Area	Ion1 Area	Ion2 Area	Ra	Ra Fail=Y...	RT	RRT	RT LCL	RT UCL	Conc.	%Rec	Mod.Comment	Noise 1	Noise 2
1	PCB-1		1194970	914081	280888	3.25	NO	8.97	1.00	8.93	9.00	52.22531	104.5		1386	1314
2	PCB-3		1060674	812290	248384	3.27	NO	10.49	1.00	10.46	10.53	50.27805	100.6		1386	1314
3	PCB-4		576669	341376	235292	1.45	NO	10.65	1.00	10.62	10.68	53.67444	107.3		3065	20257
4	PCB-15		935733	573041	362692	1.58	NO	14.32	1.00	14.29	14.36	54.49388	109.0		3200	6481
5	PCB-19		573954	294610	279344	1.05	NO	12.64	1.00	12.61	12.67	55.52118	111.0		3396	2672
6	PCB-37		632309	321234	311075	1.03	NO	18.27	1.00	18.23	18.30	53.44828	106.9		4593	4171
7	PCB-54		701416	307647	393769	0.78	NO	14.49	1.00	14.46	14.52	53.78611	107.6		969	1157
8	PCB-81		462804	203553	259251	0.79	NO	21.83	1.00	21.79	21.86	51.36832	102.7		1603	1539
9	PCB-77		450487	197360	253127	0.78	NO	22.13	1.00	22.10	22.16	51.67874	103.4		1603	1539
10	PCB-104		515471	316044	199427	1.58	NO	17.52	1.00	17.49	17.56	48.92945	97.9		959	1038
11	PCB-123		370292	227617	142675	1.60	NO	23.10	1.00	23.07	23.14	51.76187	103.5		1817	1641
12	PCB-118		411759	252114	159645	1.58	NO	23.27	1.00	23.24	23.31	51.40264	102.8		1817	1641
13	PCB-114		390657	241500	149157	1.62	NO	23.58	1.00	23.54	23.61	52.06190	104.1		1817	1641
14	PCB-105		373421	229573	143847	1.60	NO	23.93	1.00	23.89	23.96	50.49072	101.0		1817	1641
15	PCB-126		334795	205845	128950	1.60	NO	25.52	1.00	25.49	25.55	50.52740	101.1		1817	1641
16	PCB-155		453961	252734	201227	1.26	NO	20.51	1.00	20.48	20.55	49.90611	99.8		883	792
17	PCB-167		322871	177499	145372	1.22	NO	26.40	1.00	26.37	26.44	50.20915	100.4		973	1124
18	PCB-156/157		648980	357360	291620	1.23	NO	27.04	1.00	27.01	27.08	102.52232	102.5		973	1124
19	PCB-169		313418	172456	140963	1.22	NO	28.70	1.00	28.67	28.73	53.09936	106.2		973	1124
20	PCB-188		311178	157591	153586	1.03	NO	23.50	1.00	23.47	23.54	51.38211	102.8		1707	1848
21	PCB-189		292983	150359	142625	1.05	NO	29.96	1.00	29.93	29.99	51.48551	103.0		2254	2104
22	PCB-202		284686	133467	151219	0.88	NO	26.28	1.00	26.25	26.32	52.35957	104.7		541	702
23	PCB-205		218092	102612	115480	0.89	NO	31.34	1.00	31.31	31.37	49.73399	99.5		475	451
24	PCB-208		222074	99535	122539	0.81	NO	29.69	1.00	29.66	29.73	48.79727	97.6		701	747
25	PCB-206		155138	69332	85806	0.81	NO	32.41	1.00	32.38	32.45	47.44740	94.9		701	747
26	PCB-209		232873	126620	106253	1.19	NO	33.53	1.00	33.49	33.56	52.64639	105.3		363	359
27	13C-PCB-31		1333823	688979	644844	1.07	NO	15.83	0.87	15.80	15.86	108.76798	108.8		23203	13197
28	13C-PCB-95		484551	300696	183855	1.64	NO	19.13	1.09	19.09	19.16	106.16294	106.2		2045	1572
29	13C-PCB-153		555285	313804	241481	1.30	NO	24.18	1.18	24.15	24.21	102.38156	102.4		2720	1424
30	13C-PCB-28		1394069	720814	673255	1.07	NO	16.00	0.94	15.96	16.03	101.35416	101.4		23203	13197
31	13C-PCB-111		576918	358073	218845	1.64	NO	22.02	1.07	21.99	22.05	98.92295	98.9		2045	1572
32	13C-PCB-178		385279	195626	189653	1.03	NO	25.06	1.01	25.03	25.09	98.58737	98.6		1280	736
33	13C-PCB-1		2000669	1503221	497448	3.02	NO	8.97	0.75	8.93	9.00	97.36885	97.4		3649	10641
34	13C-PCB-3		1764407	1326430	437978	3.03	NO	10.48	0.88	10.45	10.51	96.60123	96.6		3649	10641

Quantify Sample Summary Report **MassLynx MassLynx V4.1 SCN 901**

Dataset: C:\MassLynx\PCB.PRO\Results\Local\2020-ARCHIVE\2020-December\5-201202A-RS.qld

Last Altered: Wednesday, December 02, 2020 16:15:00 Eastern Standard Time
Printed: Wednesday, April 28, 2021 10:54:06 Eastern Daylight Time

Name: 5-201202A09, Date: 02-Dec-2020, Time: 14:03:28, ID: H5-20-RS1-1035, Description: 1668A-RS1-020, Vial: Tray1:9

	Target Analyte	#Hom	Total Area	Ion1 Area	Ion2 Area	Ra	Ra Fail=Y...	RT	RRT	RT LCL	RT UCL	Conc.	%Rec	Mod.Comment	Noise 1	Noise 2
35	13C-PCB-4		1206416	737920	468496	1.58	NO	10.63	0.89	10.60	10.67	93.83812	93.8		3796	2231
36	13C-PCB-15		1565204	971721	593484	1.64	NO	14.32	1.20	14.28	14.35	97.54217	97.5		9246	3451
37	13C-PCB-19		888813	449231	439582	1.02	NO	12.62	1.06	12.59	12.66	92.47796	92.5		33610	46079
38	13C-PCB-37		1062153	550641	511512	1.08	NO	18.25	1.07	18.22	18.28	93.90020	93.9		23203	13197
39	13C-PCB-54		1221161	536109	685052	0.78	NO	14.47	0.85	14.44	14.51	91.76588	91.8		7205	4478
40	13C-PCB-81		743424	331923	411502	0.81	NO	21.82	1.06	21.78	21.85	93.62711	93.6		5759	3651
41	13C-PCB-77		750522	333768	416754	0.80	NO	22.12	1.07	22.09	22.16	92.91925	92.9		5759	3651
42	13C-PCB-104		913713	559842	353871	1.58	NO	17.51	1.03	17.48	17.55	91.73324	91.7		980	1230
43	13C-PCB-123		649285	401681	247604	1.62	NO	23.09	1.12	23.06	23.13	93.36797	93.4		2728	3050
44	13C-PCB-118		684086	422364	261723	1.61	NO	23.26	1.13	23.23	23.29	93.71024	93.7		2728	3050
45	13C-PCB-114		610206	376772	233434	1.61	NO	23.56	0.95	23.53	23.60	91.69170	91.7		2728	3050
46	13C-PCB-105		613581	378951	234630	1.62	NO	23.91	0.96	23.88	23.95	93.16971	93.2		2728	3050
47	13C-PCB-126		546793	338149	208644	1.62	NO	25.52	1.03	25.49	25.55	91.52440	91.5		2728	3050
48	13C-PCB-155		860079	473713	386366	1.23	NO	20.49	0.99	20.46	20.53	90.89765	90.9		1155	953
49	13C-PCB-167		582698	329043	253655	1.30	NO	26.39	1.06	26.36	26.42	98.37402	98.4		2720	1424
50	13C-PCB-156/157		1108781	630582	478199	1.32	NO	27.03	1.09	27.00	27.06	194.10109	97.1		2720	1424
51	13C-PCB-169		540734	307515	233219	1.32	NO	28.69	1.15	28.65	28.72	100.76100	100.8		2720	1424
52	13C-PCB-188		641953	328671	313282	1.05	NO	23.49	0.94	23.46	23.52	92.33290	92.3		1280	736
53	13C-PCB-189		563928	291333	272595	1.07	NO	29.95	0.96	29.91	29.98	103.86835	103.9		1333	1046
54	13C-PCB-202		504555	240737	263818	0.91	NO	26.26	1.06	26.22	26.29	93.89926	93.9		457	614
55	13C-PCB-205		478981	225563	253418	0.89	NO	31.33	1.01	31.29	31.36	96.58599	96.6		810	1002
56	13C-PCB-208		372637	166055	206581	0.80	NO	29.68	0.96	29.65	29.71	94.22386	94.2		352	537
57	13C-PCB-206		270090	118954	151136	0.79	NO	32.40	1.04	32.37	32.43	97.48940	97.5		352	537
58	13C-PCB-209		436956	239223	197734	1.21	NO	33.51	1.08	33.48	33.54	98.85356	98.9		305	214
59	13C-PCB-9		1910898	1156131	754767	1.53	NO	11.90	0.48	11.86	11.93	95.49103	95.5		3796	2231
60	13C-PCB-52		780002	350559	429443	0.82	NO	16.99	0.68	16.95	17.02	98.66279	98.7		5540	3500
61	13C-PCB-101		512619	315718	196902	1.60	NO	20.64	0.83	20.61	20.68	97.66591	97.7		2045	1572
62	13C-PCB-138		467322	260472	206850	1.26	NO	24.87	0.00	24.83	24.90	93.50433	93.5		2720	1424
63	13C-PCB-194		333123	156315	176808	0.88	NO	31.05	1.25	31.01	31.08	99.61117	99.6		810	1002
64	Total MoCB-F1	3		1768813								45272.69601			1386	
65	Total DiCB-F1	2		361726								41447.28079			3065	
66	Total DiCB-F2	2		579008								8679.67169			3200	
67	Total TrCB-F1	1		294610								55.52118			1515	
68	Total TrCB-F3	4		328703								12180.08048			3075	
69	Total TeCB-F2	1		307647								53.78611			969	
70	Total TeCB-F4	6		404918								7427.29188			1603	
71	Total PeCB-F3	1		316044								48.92945			959	

Quantify Sample Summary Report **MassLynx MassLynx V4.1 SCN 901**

Dataset: C:\MassLynx\PCB.PRO\Results\Local\2020-ARCHIVE\2020-December\5-201202A-RS.qld

Last Altered: Wednesday, December 02, 2020 16:15:00 Eastern Standard Time
Printed: Wednesday, April 28, 2021 10:54:06 Eastern Daylight Time

Name: 5-201202A09, Date: 02-Dec-2020, Time: 14:03:28, ID: H5-20-RS1-1035, Description: 1668A-RS1-020, Vial: Tray1:9

	Target Analyte	#Hom	Total Area	Ion1 Area	Ion2 Area	Ra	Ra Fail=Y...	RT	RRT	RT LCL	RT UCL	Conc.	%Rec	Mod.Comment	Noise 1	Noise 2
72	Total PeCB-F5	11		1177495								30259.04073			1817	
73	Total HxCB-F4	1		252734								49.90611			883	
74	Total HxCB-F5	9		713266								9677.29432			973	
75	Total HpCB-F5	9		167568								19982.33654			833	
76	Total HpCB-F6	4		157301								13365.59373			997	
77	Total OcCB-F5	4		134288								1751.03902			541	
78	Total OcCB-F6	5		111775								21385.31605			475	
79	Total NoCB-F6	2		168867								96.24466			701	
80	Total DeCB-F7	1		126620								52.64639			363	
81	Total 13C-MoCB-F1	2		2829651								193.97007			3649	
82	Total 13C-DiCB-F1	3		1897033								189.80345			3796	
83	Total 13C-DiCB-F2	2		1917063								1817029.876...			9246	
84	Total 13C-TrCB-F1	3		452002								16247.77385			33610	
85	Total 13C-TrCB-F3	3		1960433								304.02234			23203	
86	Total 13C-TeCB-F2	1		536109								91.76588			7205	
87	Total 13C-TeCB-F3	3		359098								101.14479			5540	
88	Total 13C-TeCB-F4	8		679867								20927.42857			5759	
89	Total 13C-PeCB-F3	1		559842								91.73324			980	
90	Total 13C-PeCB-F4	10		979519								308.24836			2045	
91	Total 13C-PeCB-F5	14		1957701								49581.56049			2728	
92	Total 13C-HxCB-F4	2		475913								2213.69762			1155	
93	Total 13C-HxCB-F5	15		1860216								621.32964			2720	
94	Total 13C-HpCB-F5	6		531901								12916.16093			1280	
95	Total 13C-HpCB-F6	5		310772								30487.77858			1333	
96	Total 13C-OcCB-F5	3		241513								1407.66625			457	
97	Total 13C-OcCB-F6	5		394235								211.06844			810	
98	Total 13C-NoCB-F6	2		285009								191.71326			352	
99	Total 13C-DeCB-F7	1		239223								98.85356			305	
100	Lockmass F1			0											380862	
101	Lockmass F2			0											489923	
102	Lockmass F3			0											394385	
103	Lockmass F4			0											345243	
104	Lockmass F5			0											114930	
105	Lockmass F6			0											112938	
106	Lockmass F7			0											28661	

Quantify Audit Report MassLynx MassLynx V4.1 SCN 901

Dataset: C:\MassLynx\PCB.PRO\Results\Local\2020-ARCHIVE\2020-December\5-201202A-RS.qld

Last Altered: Wednesday, December 02, 2020 16:15:00 Eastern Standard Time
Printed: Wednesday, April 28, 2021 10:54:06 Eastern Daylight Time

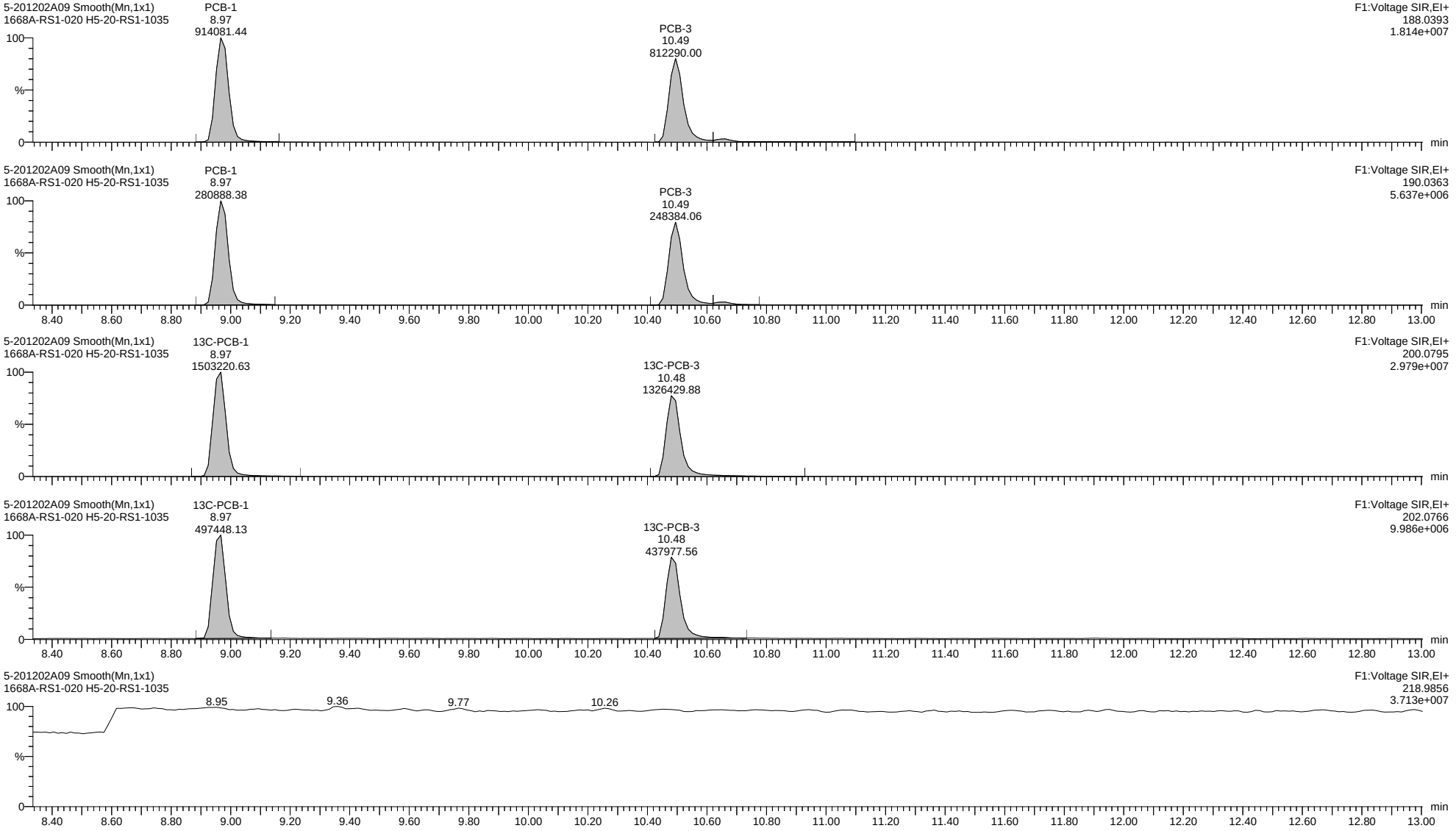
Date	Time	Event	Details	Comments
02-Dec-20	16:14:59	Process Extract		
02-Dec-20	16:15:00	Process Integrate		
02-Dec-20	16:15:00	Process Quantify		
02-Dec-20	16:15:00	Dataset Created		
02-Dec-20	16:15:56	Dataset Saved	Saved to 'C:\MassLynx\PCB.PRO\Results\Local\2020-Decem...	

Dataset: C:\MassLynx\PCB.PRO\Results\Local\2020-ARCHIVE\2020-December\5-201202A-RS.qld

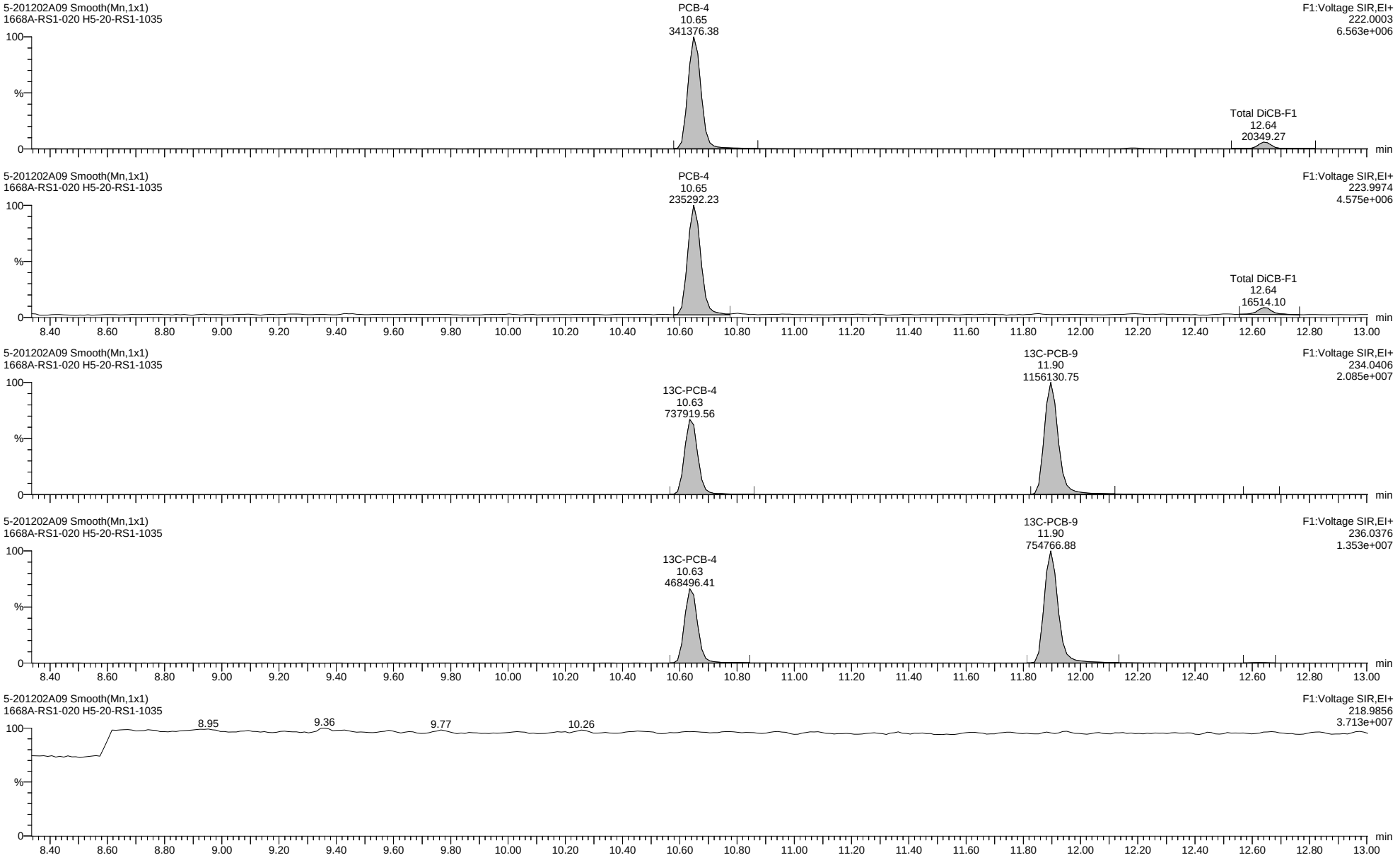
Last Altered: Wednesday, December 02, 2020 16:15:00 Eastern Standard Time
Printed: Wednesday, April 28, 2021 10:54:06 Eastern Daylight Time

Method: C:\MassLynx\PCB.PRO\MethDB\1668-OCTYL-1-ICAL-201202A.mdb 07 Feb 2020 11:57:21
Calibration: C:\MassLynx\PCB.PRO\CurveDB\5-201202A-ICAL.cdb 02 Dec 2020 15:02:34

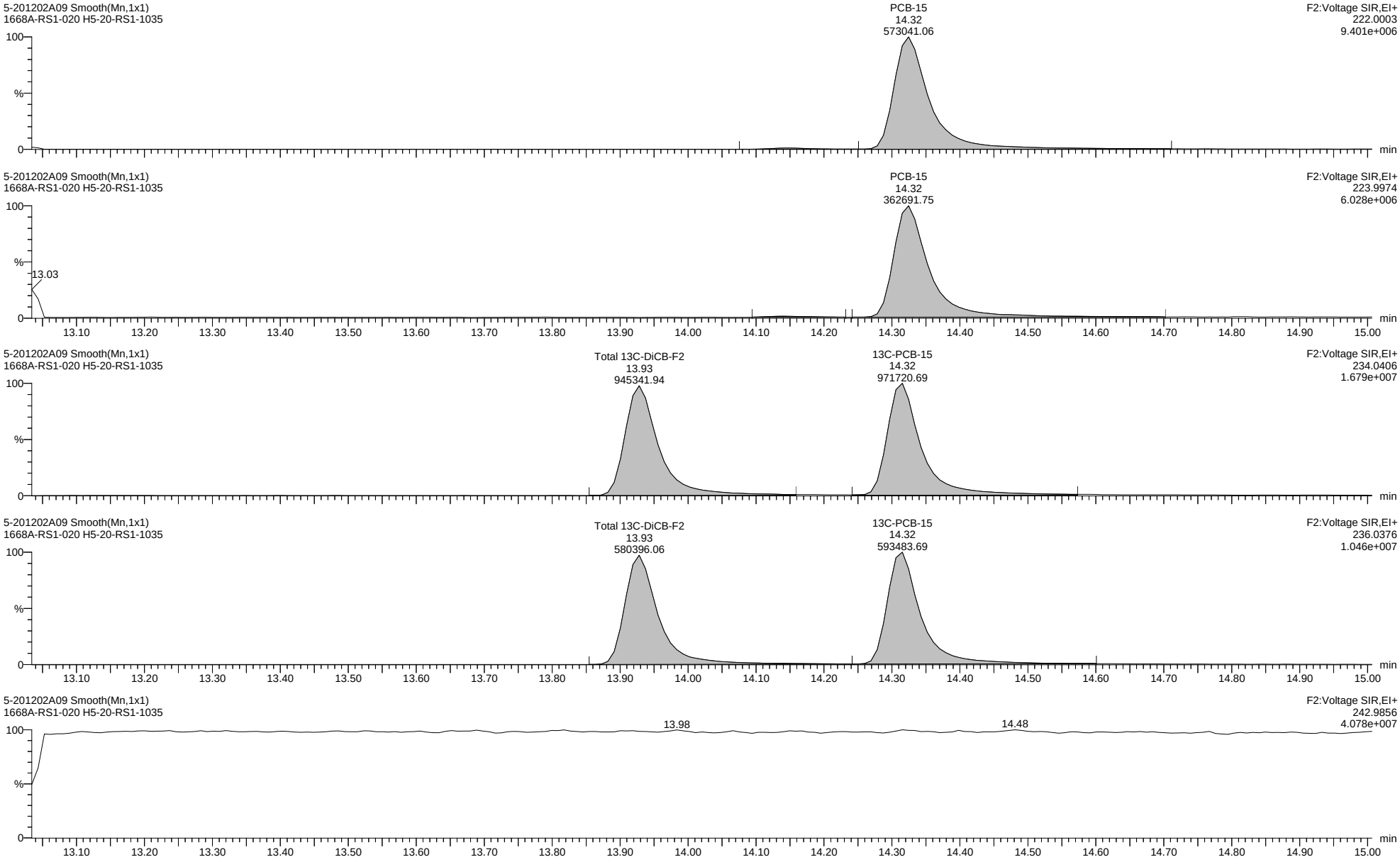
Name: 5-201202A09, Date: 02-Dec-2020, Time: 14:03:28, ID: H5-20-RS1-1035, Description: 1668A-RS1-020, Vial: Tray1:9



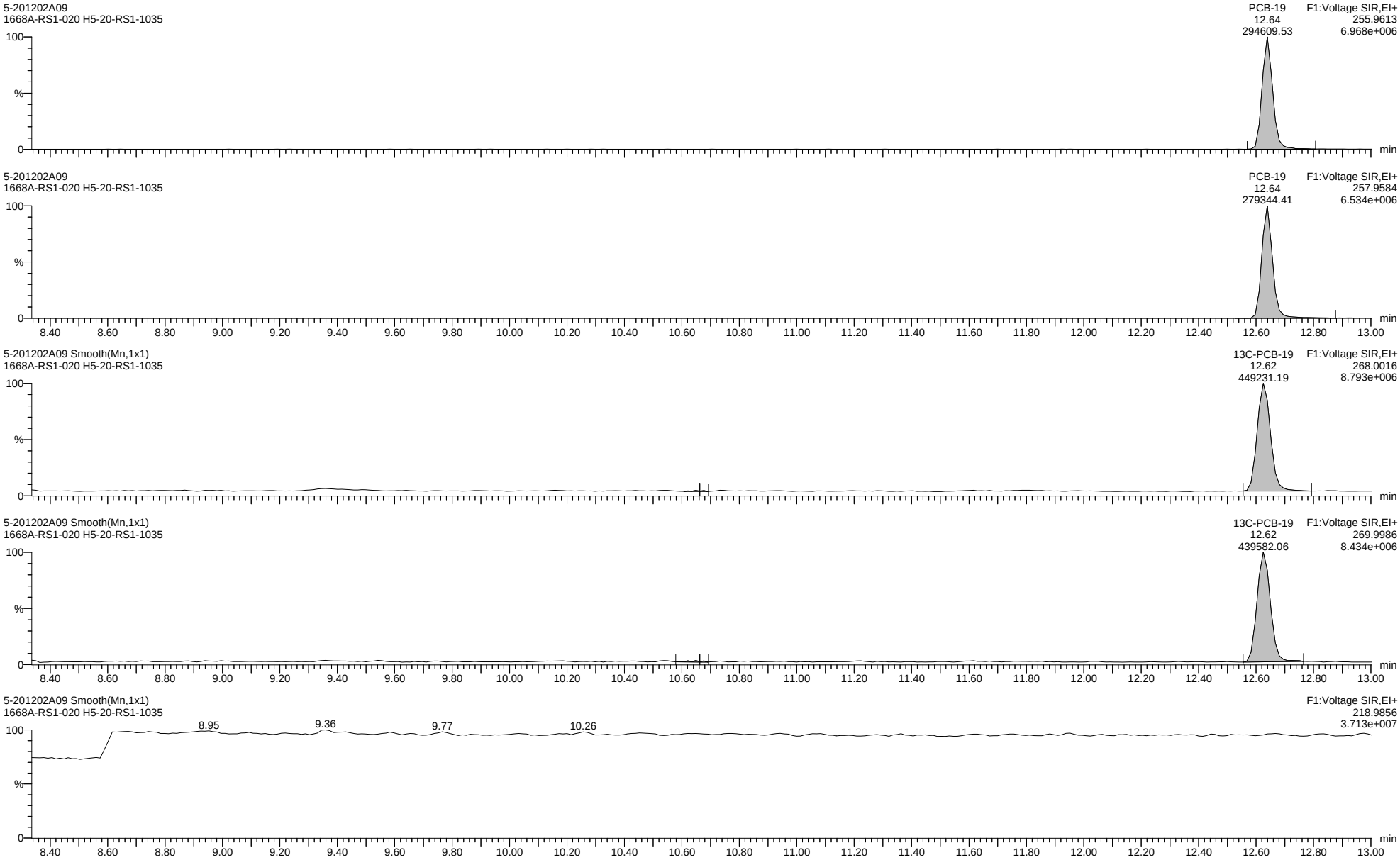
Name: 5-201202A09, Date: 02-Dec-2020, Time: 14:03:28, ID: H5-20-RS1-1035, Description: 1668A-RS1-020, Vial: Tray1:9



Name: 5-201202A09, Date: 02-Dec-2020, Time: 14:03:28, ID: H5-20-RS1-1035, Description: 1668A-RS1-020, Vial: Tray1:9



Name: 5-201202A09, Date: 02-Dec-2020, Time: 14:03:28, ID: H5-20-RS1-1035, Description: 1668A-RS1-020, Vial: Tray1:9



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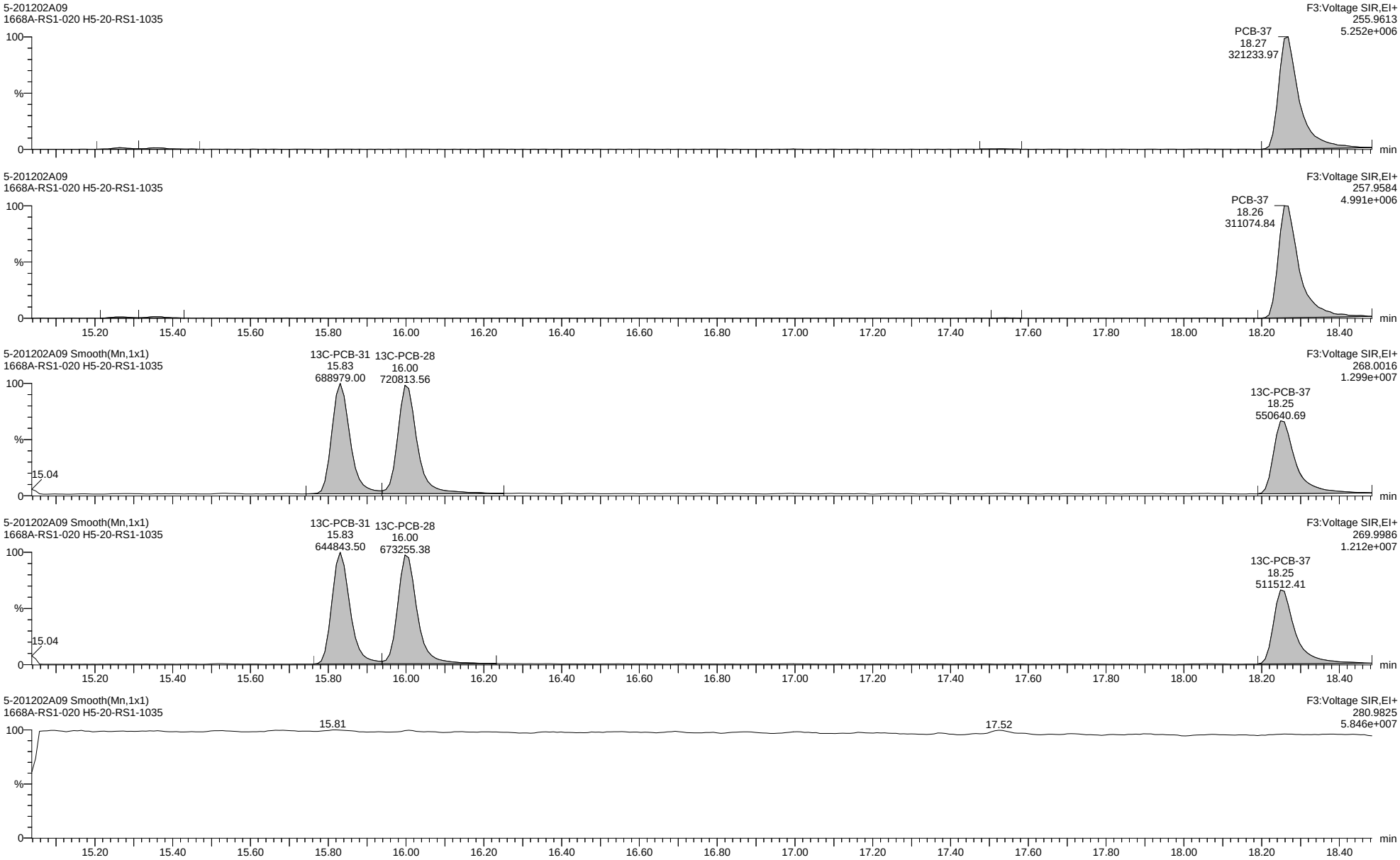
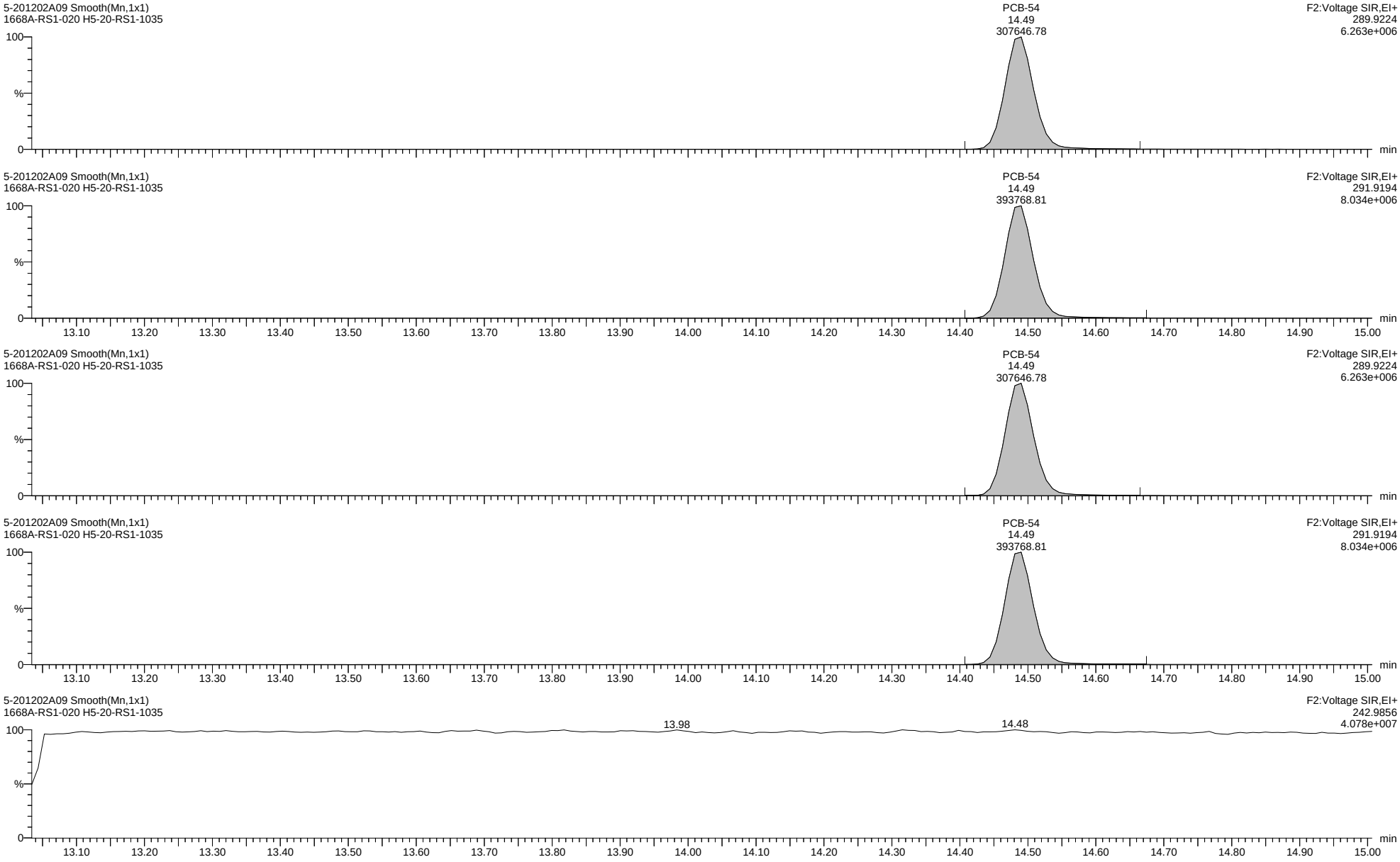


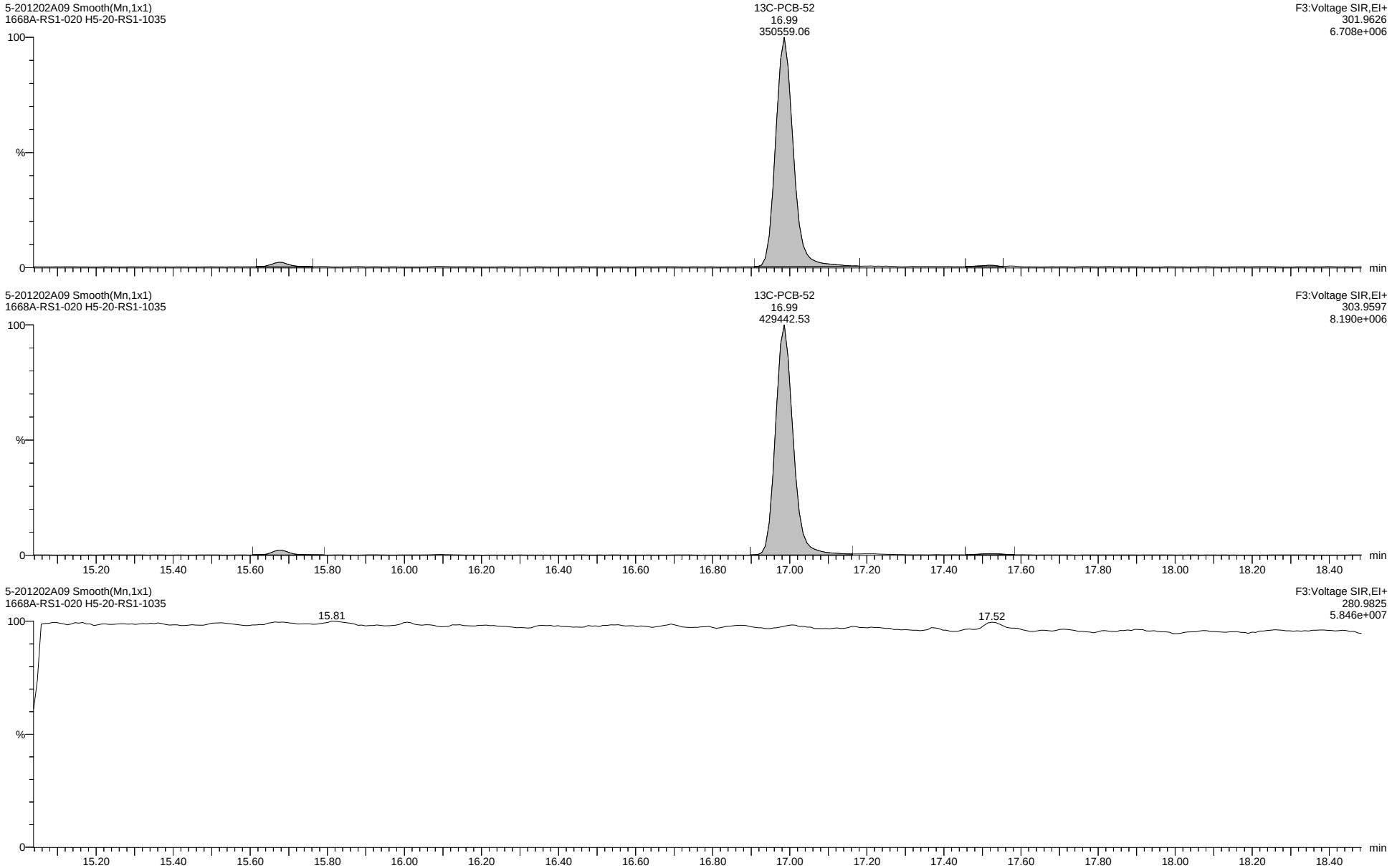
Name: 5-201202A09, Date: 02-Dec-2020, Time: 14:03:28, ID: H5-20-RS1-1035, Description: 1668A-RS1-020, Vial: Tray1:9



Dataset: C:\MassLynx\PCB.PRO\Results\Local\2020-ARCHIVE\2020-December\5-201202A-RS.qld

Last Altered: Wednesday, December 02, 2020 16:15:00 Eastern Standard Time
Printed: Wednesday, April 28, 2021 10:54:06 Eastern Daylight Time

Name: 5-201202A09, Date: 02-Dec-2020, Time: 14:03:28, ID: H5-20-RS1-1035, Description: 1668A-RS1-020, Vial: Tray1:9



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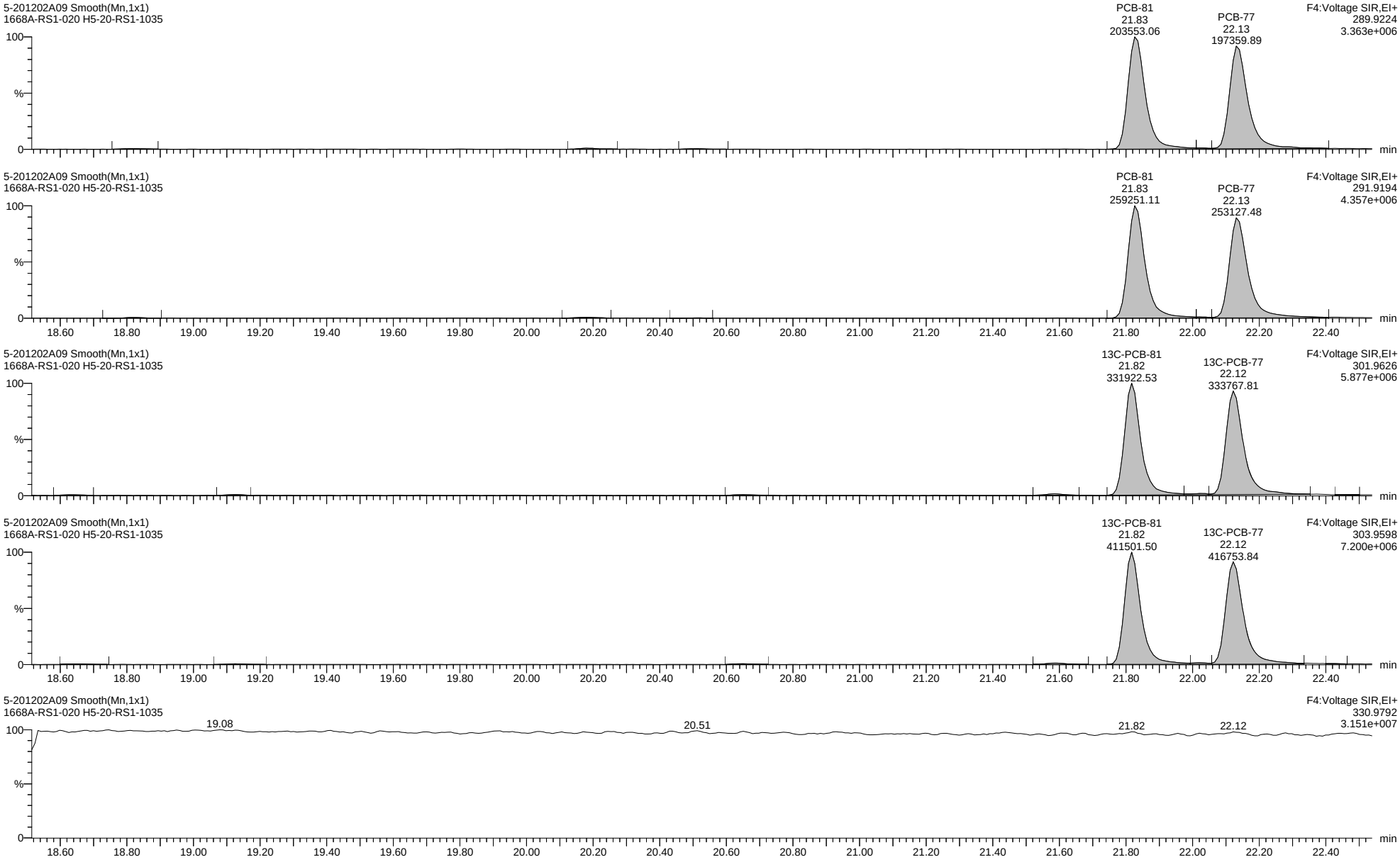

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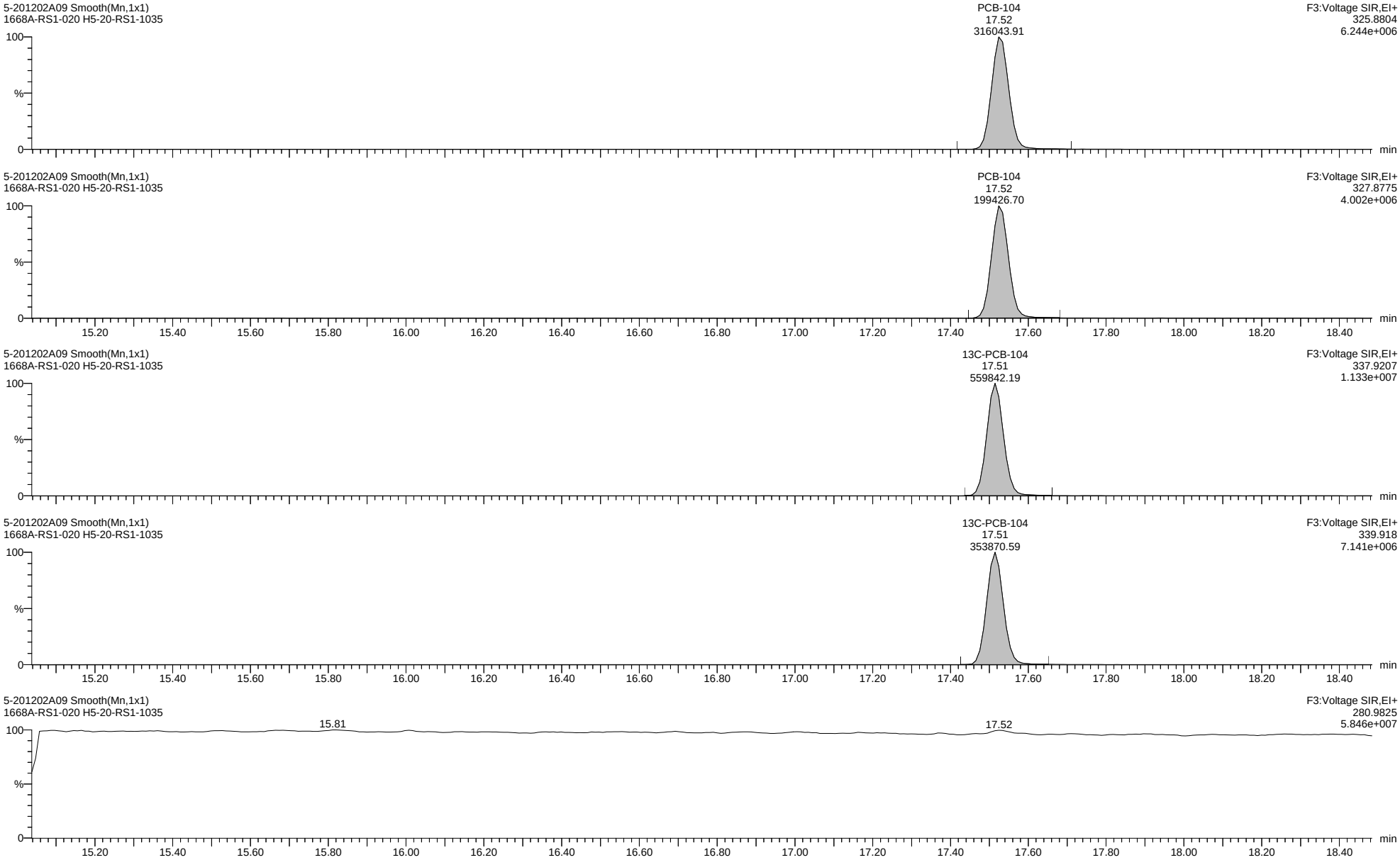
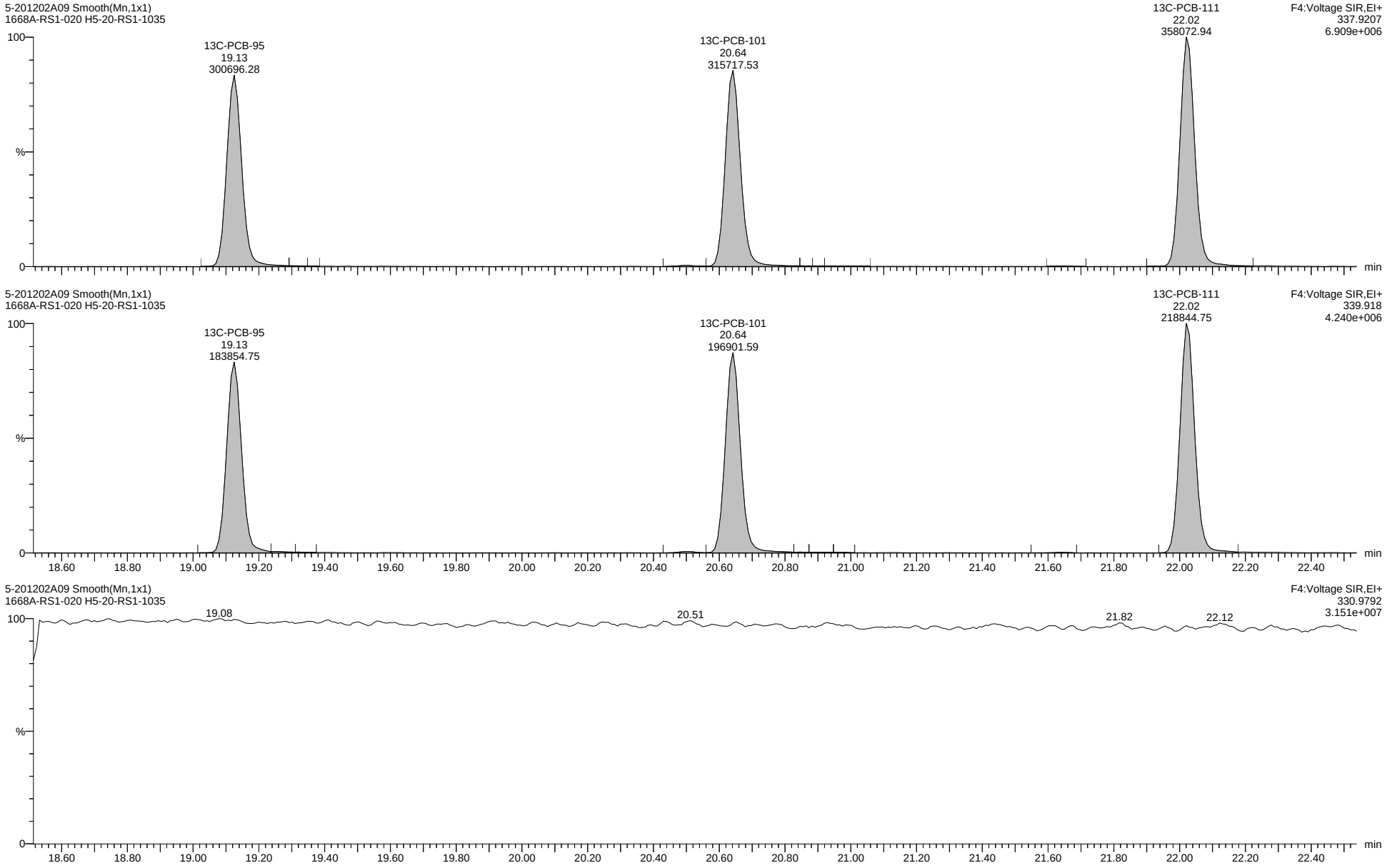


Dataset: C:\MassLynx\PCB.PRO\Results\Local\2020-ARCHIVE\2020-December\5-201202A-RS.qld

Last Altered: Wednesday, December 02, 2020 16:15:00 Eastern Standard Time
Printed: Wednesday, April 28, 2021 10:54:06 Eastern Daylight Time

Name: 5-201202A09, Date: 02-Dec-2020, Time: 14:03:28, ID: H5-20-RS1-1035, Description: 1668A-RS1-020, Vial: Tray1:9



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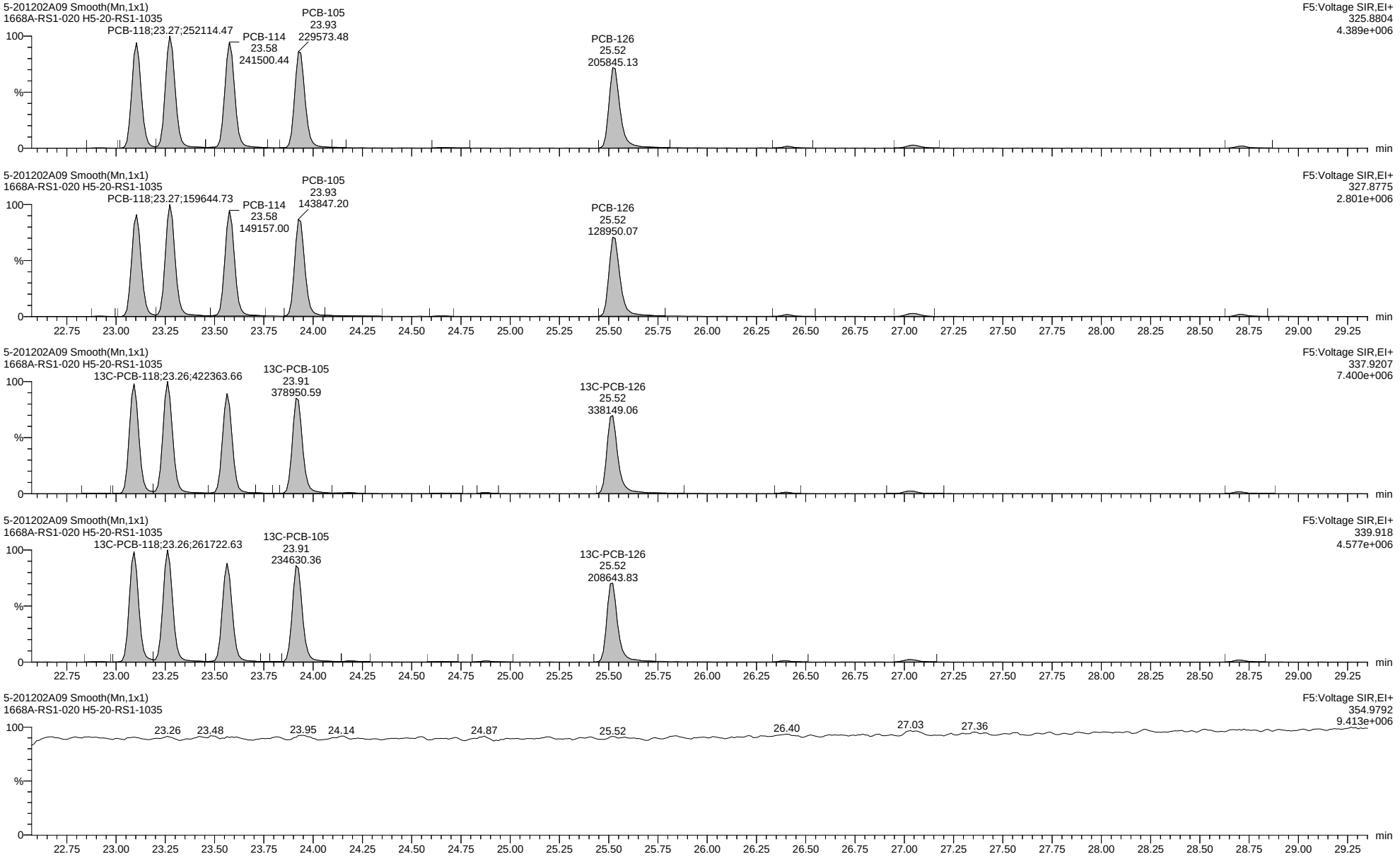

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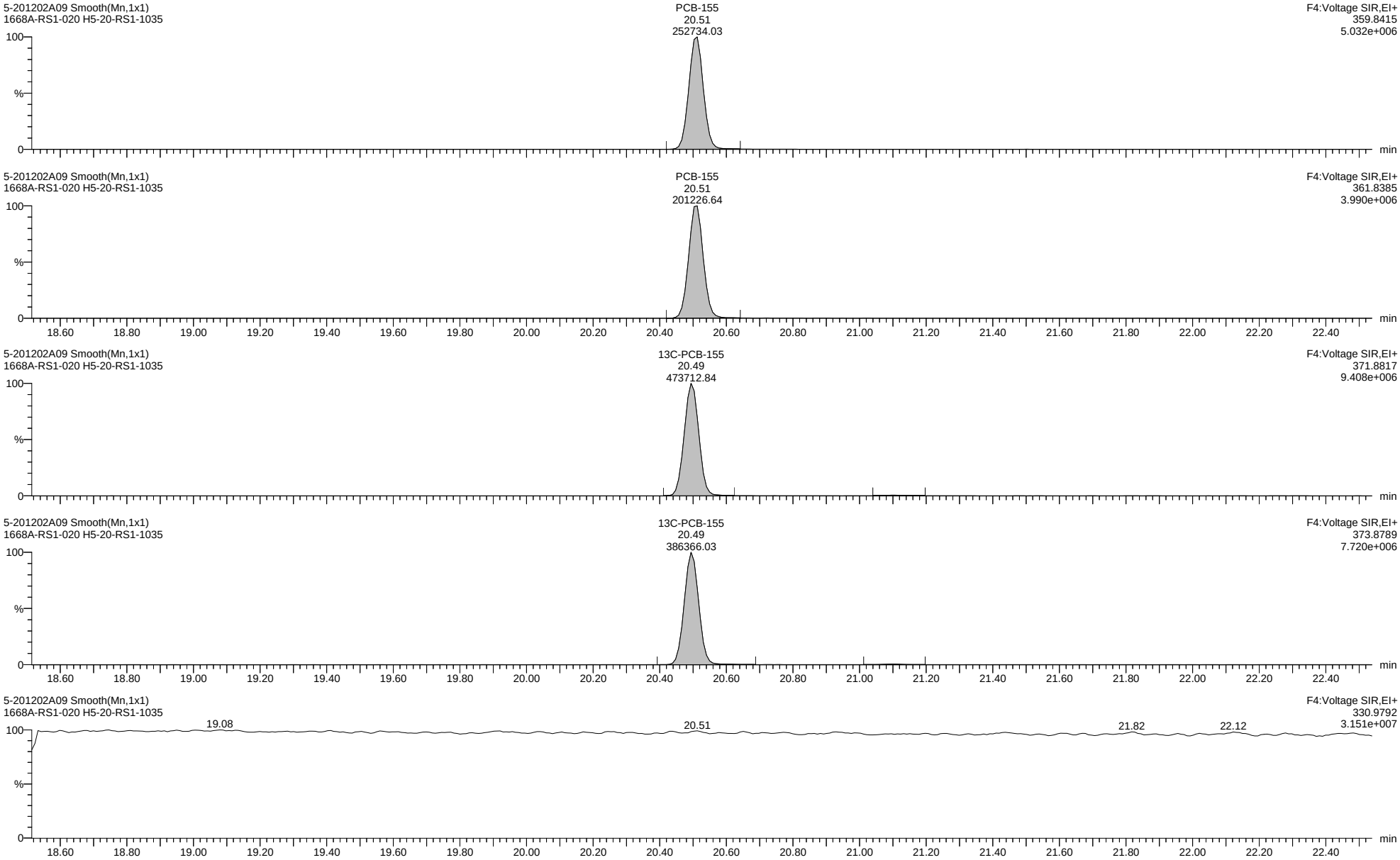

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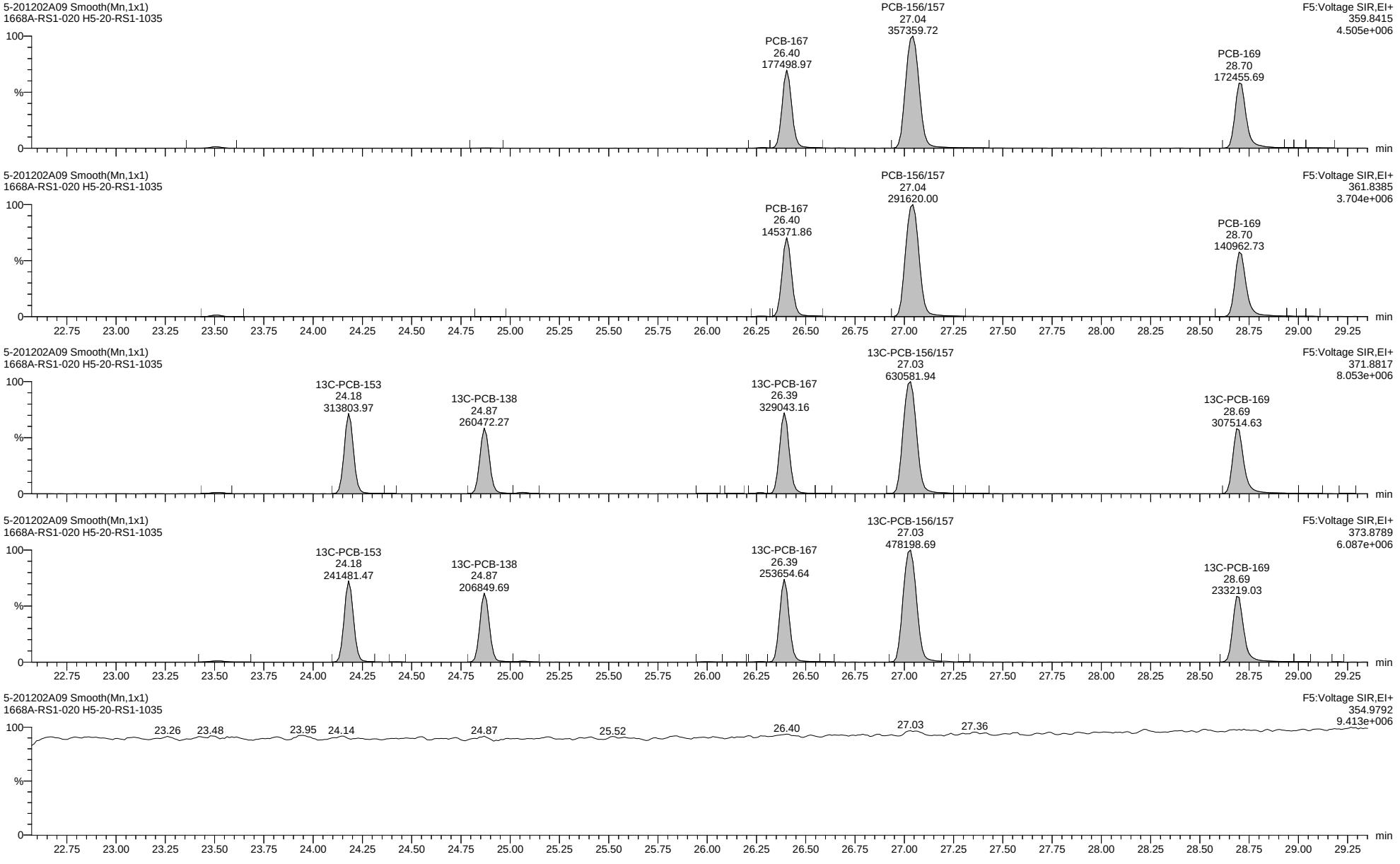

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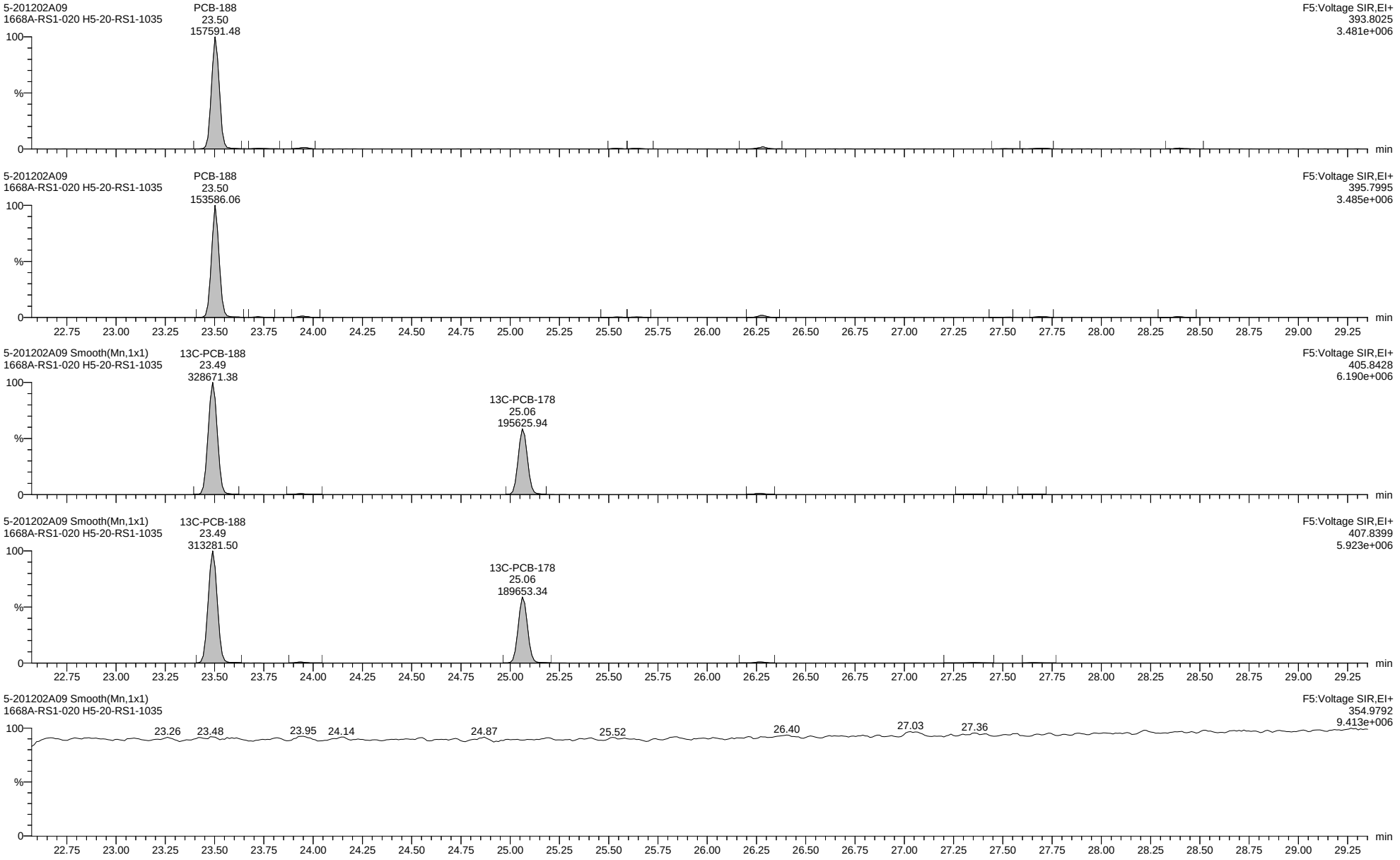

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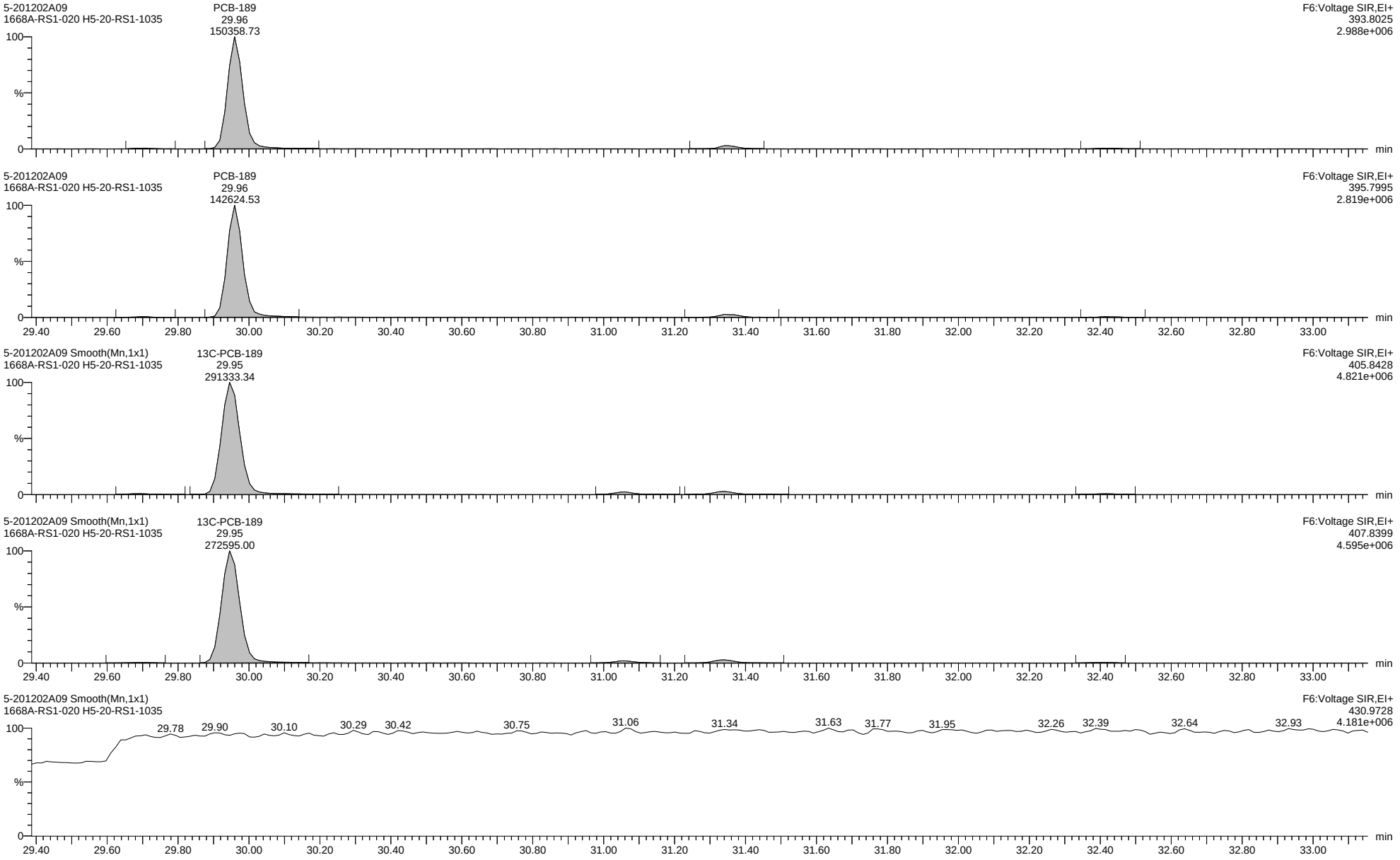

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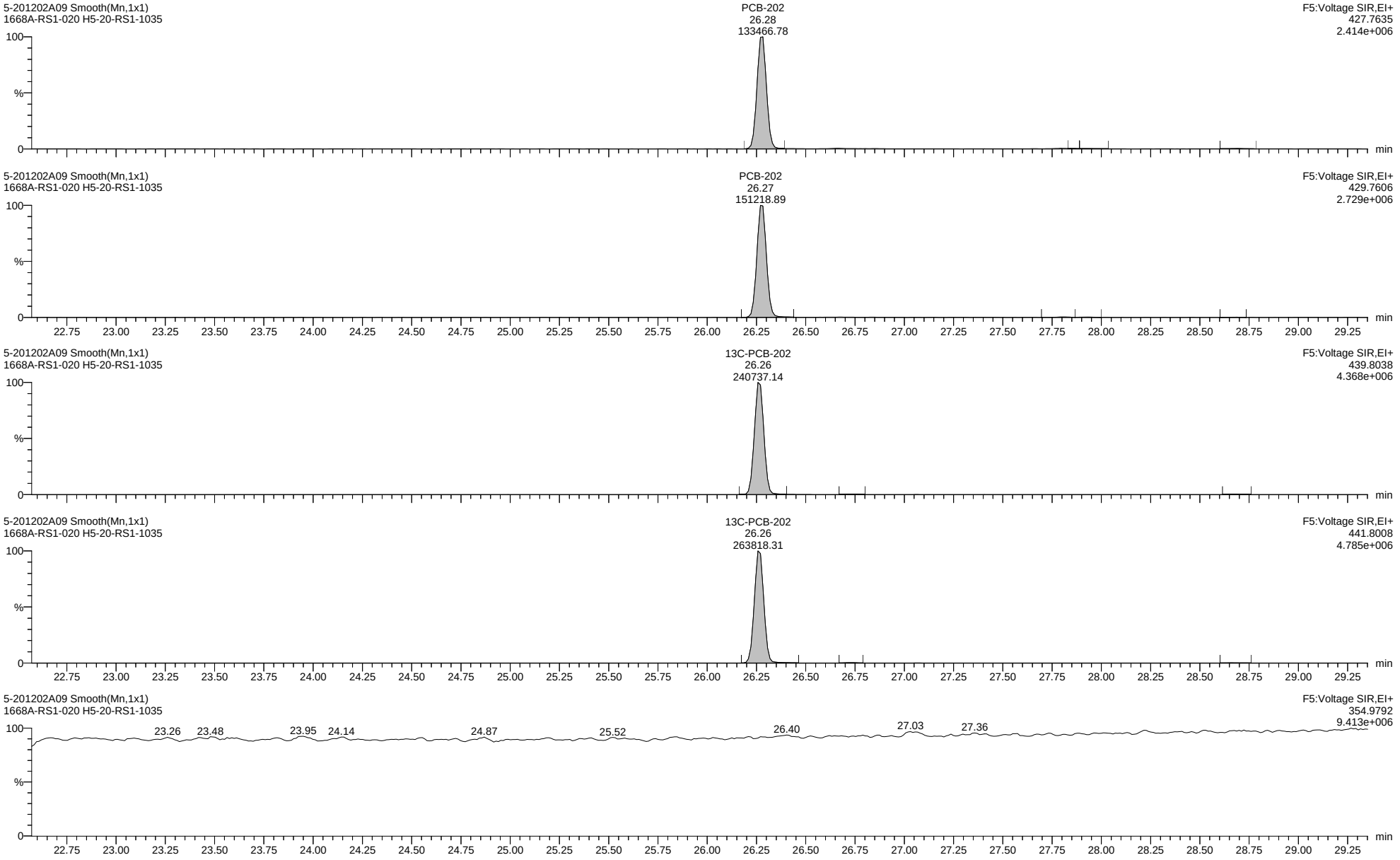

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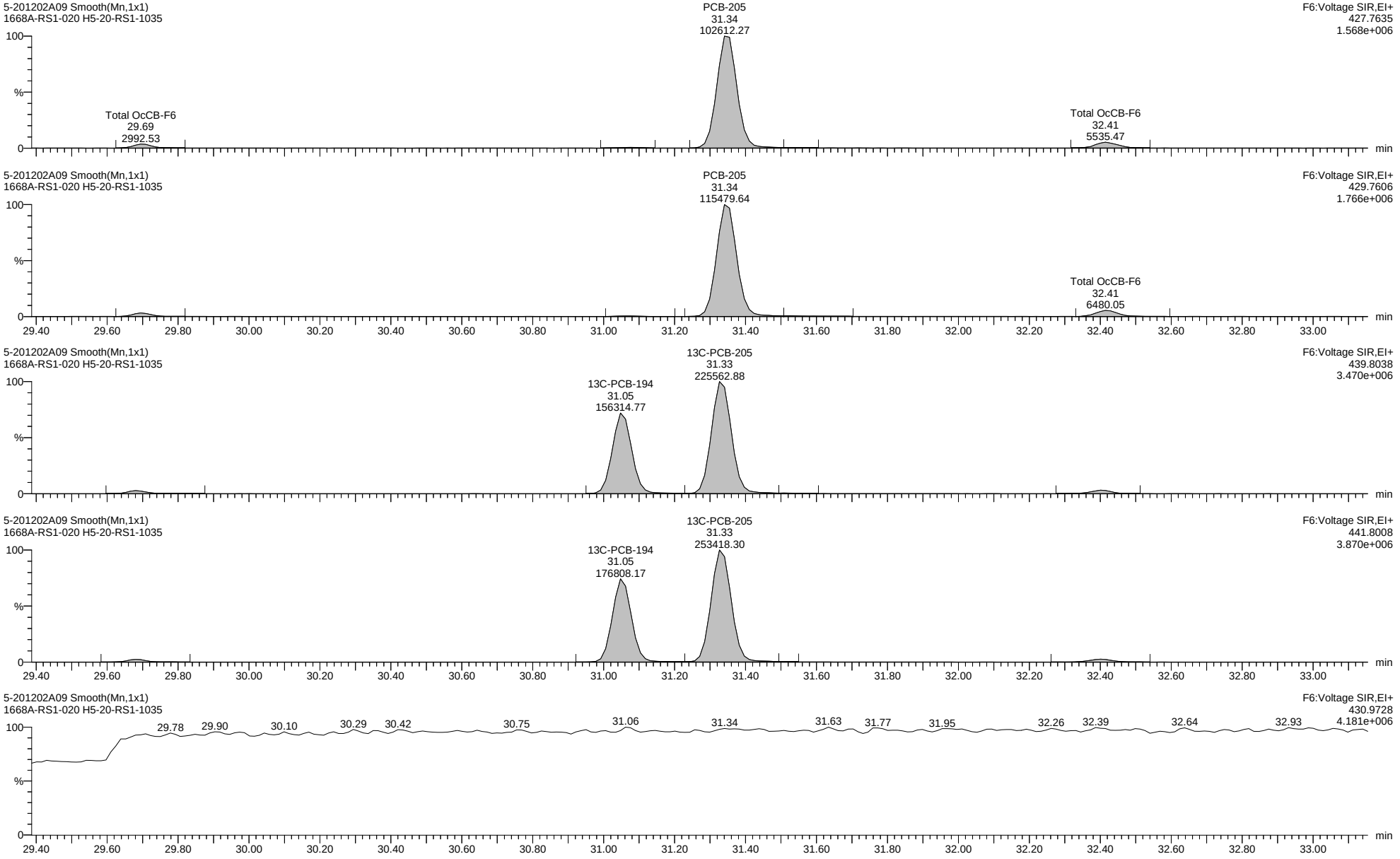

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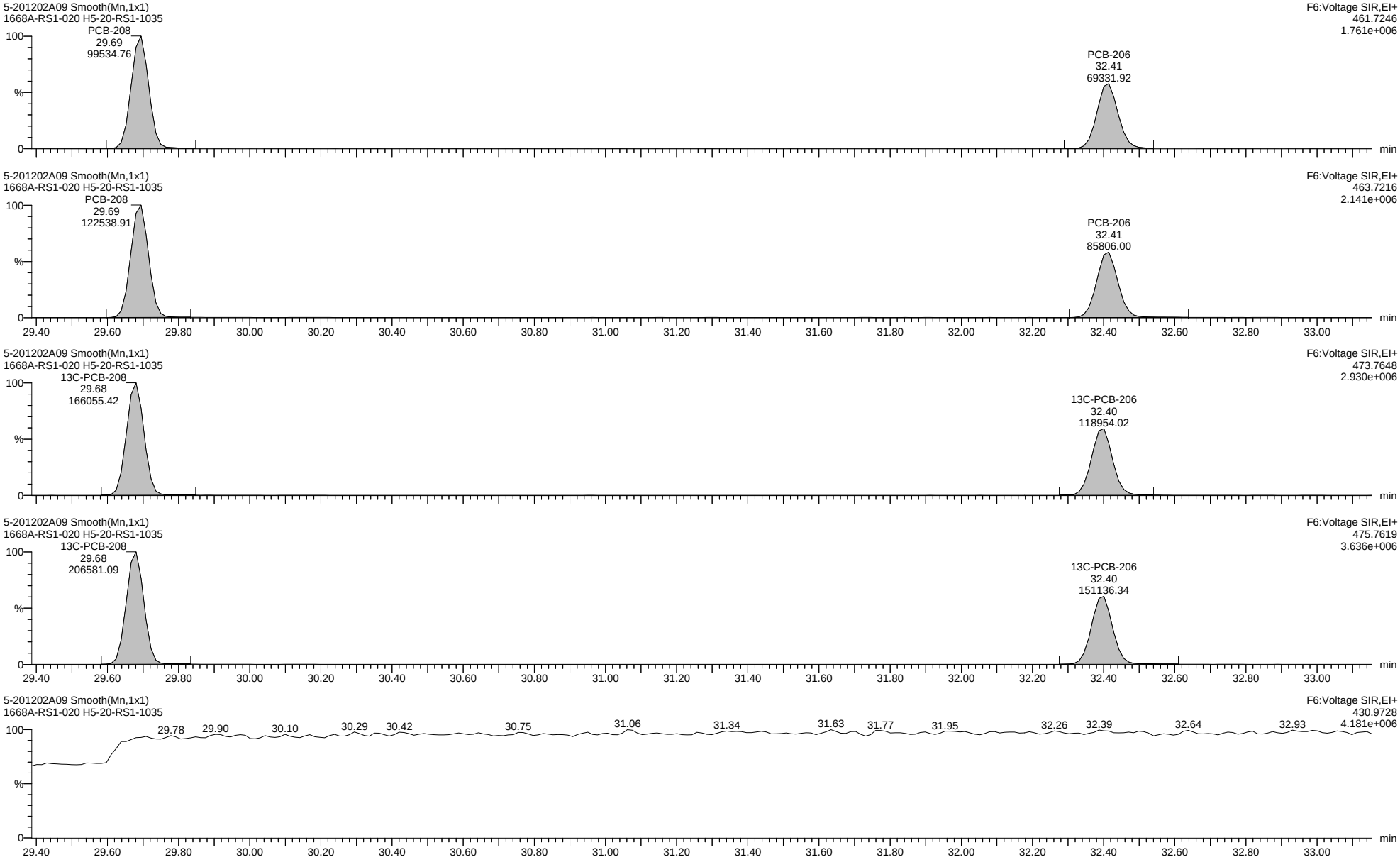

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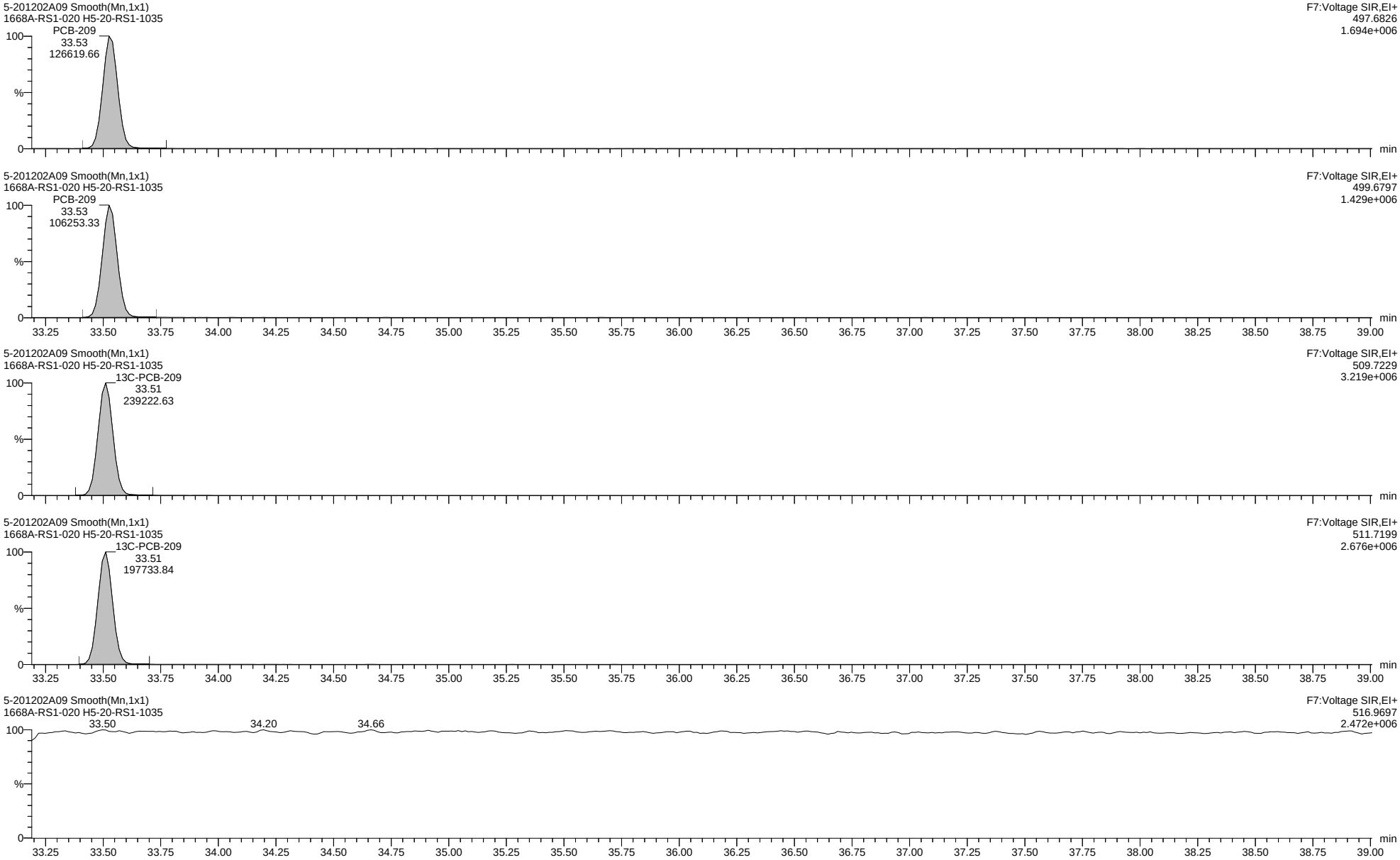
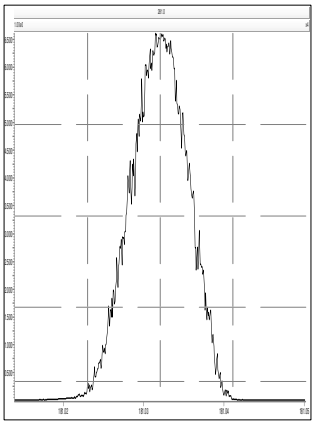


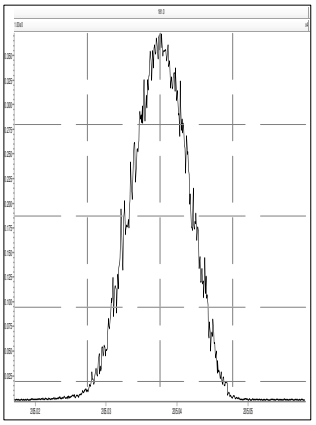
File: Experiment: 1668_octyl_1.exp Reference: Pfk.ref Function: 1 @ 200 (ppm)

Printed: Wednesday, December 02, 2020 09:26:42 Eastern Standard Time

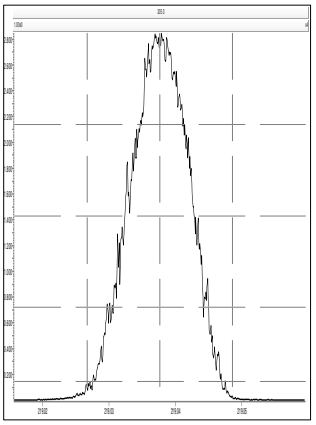
M 180.9888 R 11414



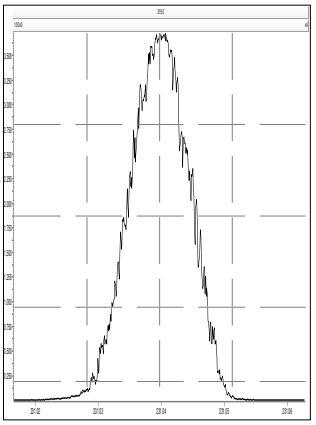
M 204.9888 R 11365



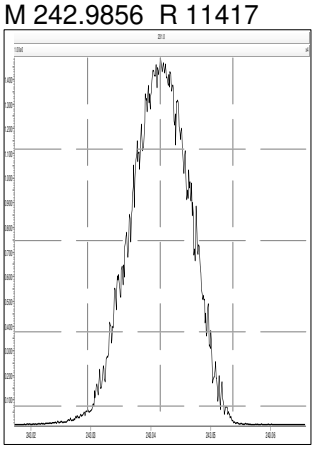
M 218.9856 R 11261



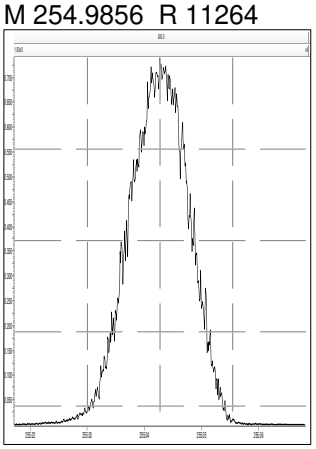
M 230.9856 R 11416



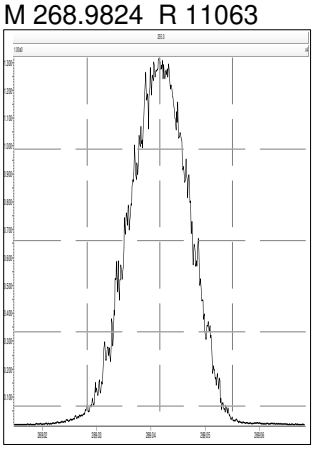
M 242.9856 R 11417



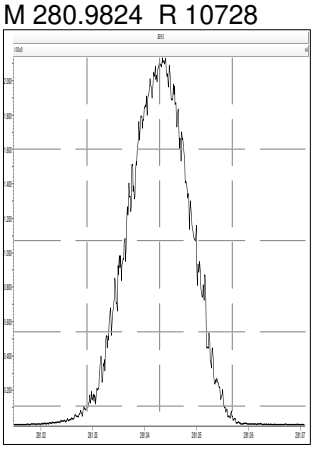
M 254.9856 R 11264



M 268.9824 R 11063



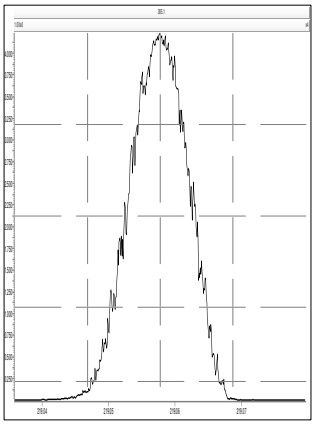
M 280.9824 R 10728



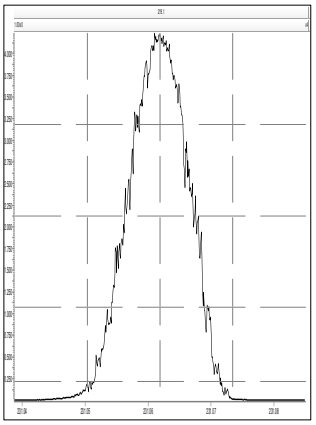
File: Experiment: 1668_octyl_1.exp Reference: Pfk.ref Function: 2 @ 200 (ppm)

Printed: Wednesday, December 02, 2020 09:27:13 Eastern Standard Time

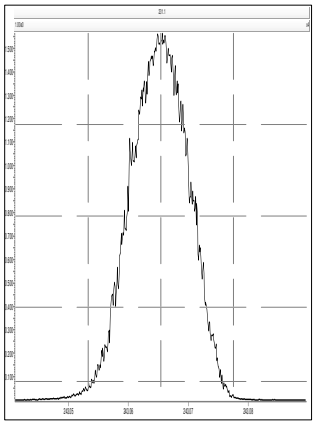
M 218.9856 R 11570



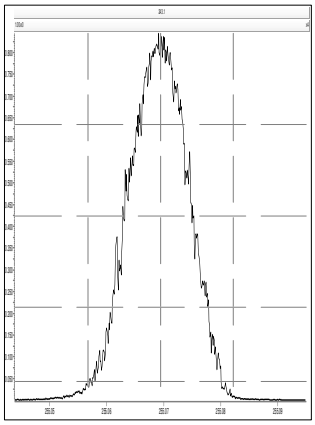
M 230.9856 R 11572



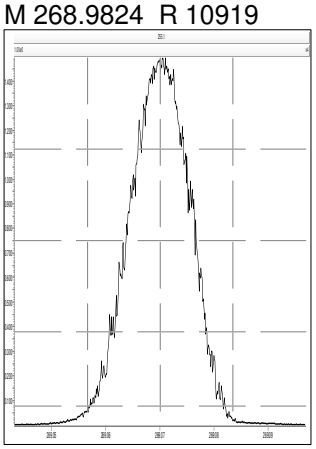
M 242.9856 R 11467



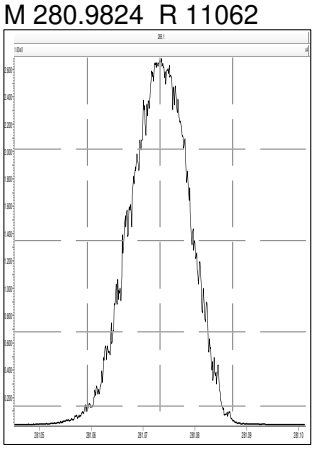
M 254.9856 R 11262



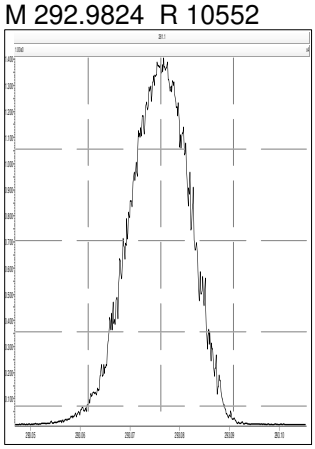
M 268.9824 R 10919



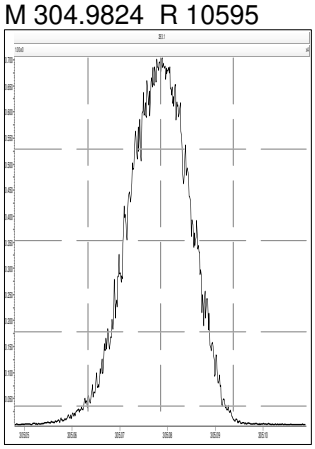
M 280.9824 R 11062



M 292.9824 R 10552



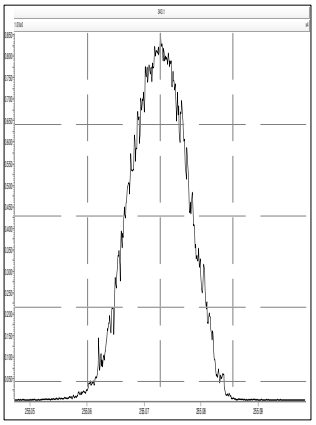
M 304.9824 R 10595



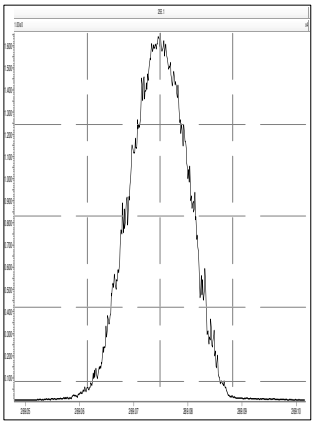
File: Experiment: 1668_octyl_1.exp Reference: Pfk.ref Function: 3 @ 200 (ppm)

Printed: Wednesday, December 02, 2020 09:27:39 Eastern Standard Time

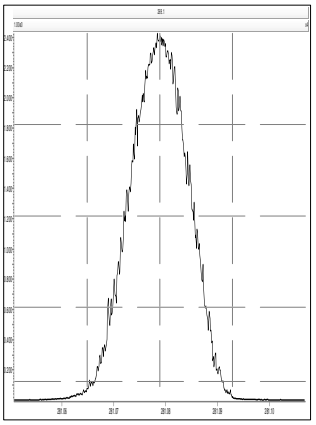
M 254.9856 R 11262



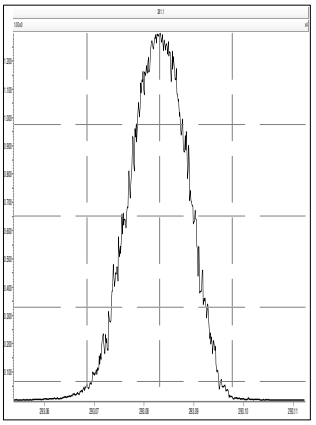
M 268.9824 R 11411



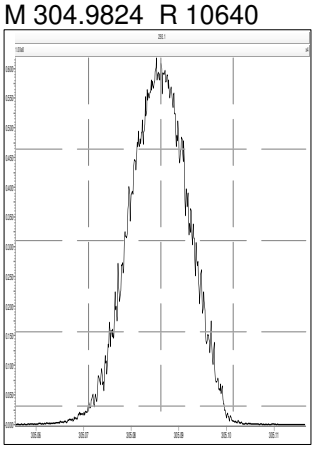
M 280.9824 R 11261



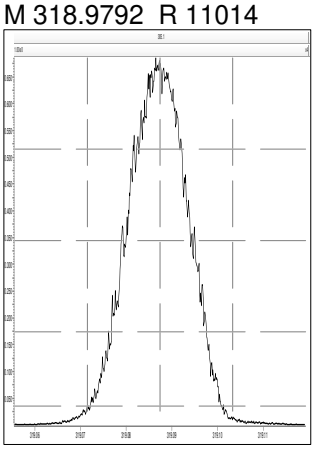
M 292.9824 R 11466



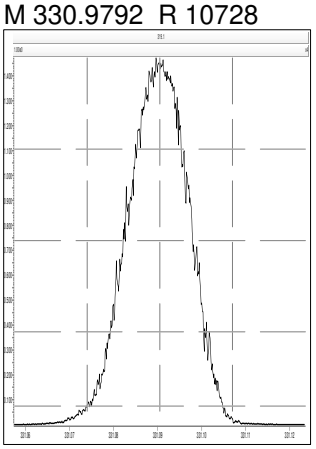
M 304.9824 R 10640



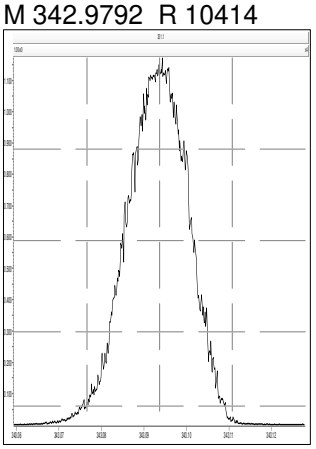
M 318.9792 R 11014



M 330.9792 R 10728



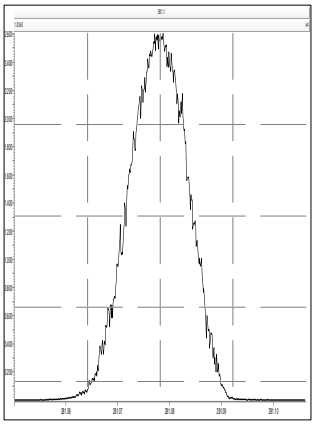
M 342.9792 R 10414



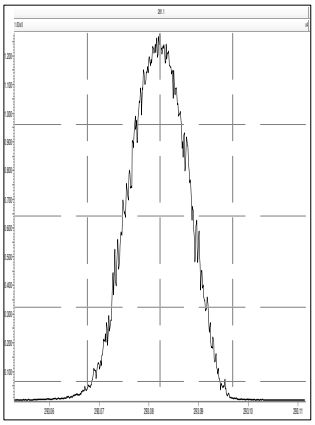
File: Experiment: 1668_octyl_1.exp Reference: Pfk.ref Function: 4 @ 200 (ppm)

Printed: Wednesday, December 02, 2020 09:28:09 Eastern Standard Time

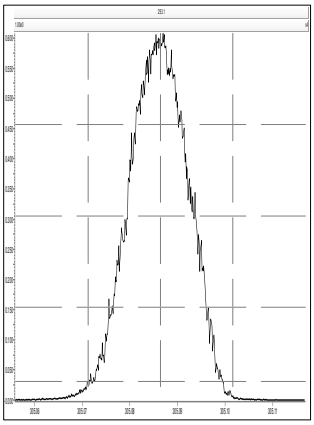
M 280.9824 R 11261



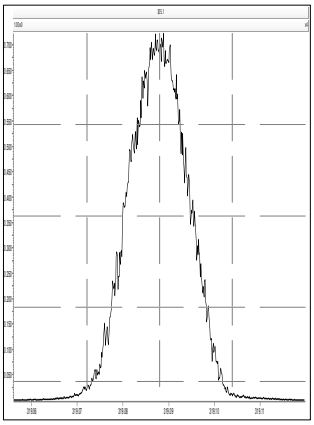
M 292.9824 R 11362



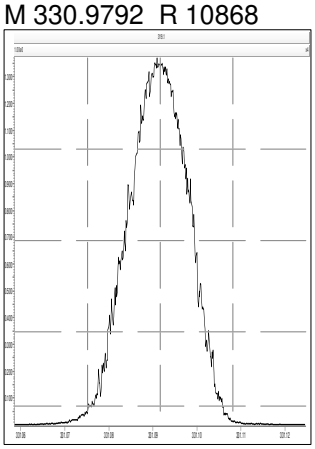
M 304.9824 R 11015



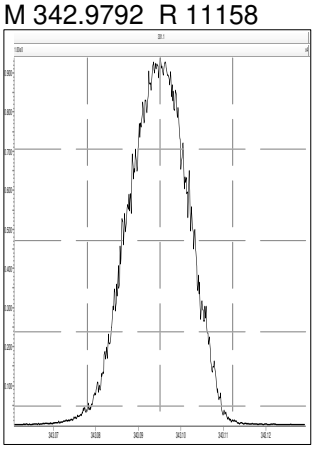
M 318.9792 R 11112



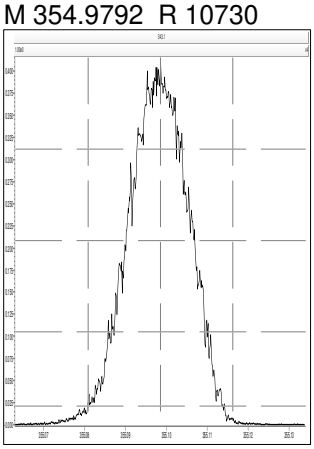
M 330.9792 R 10868



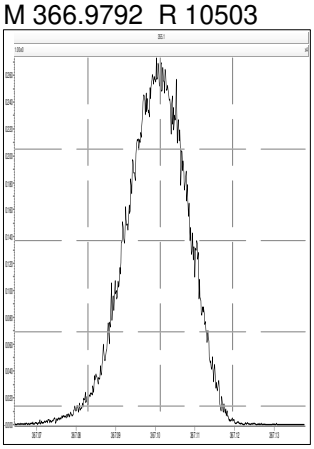
M 342.9792 R 11158



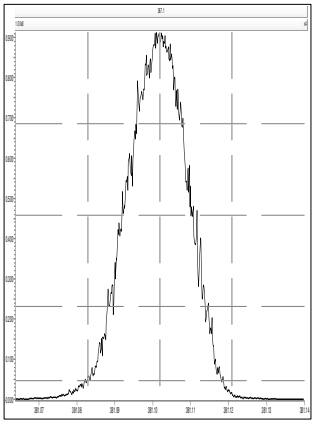
M 354.9792 R 10730



M 366.9792 R 10503



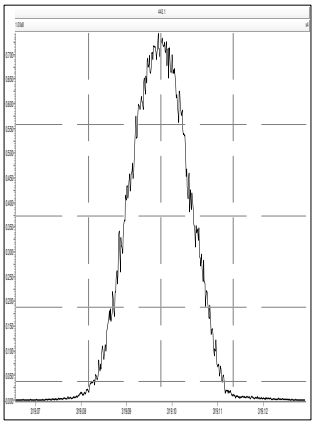
M 380.9760 R 10732



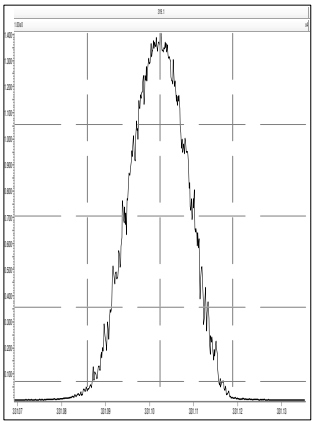
File: Experiment: 1668_octyl_1.exp Reference: Pfk.ref Function: 5 @ 200 (ppm)

Printed: Wednesday, December 02, 2020 09:28:43 Eastern Standard Time

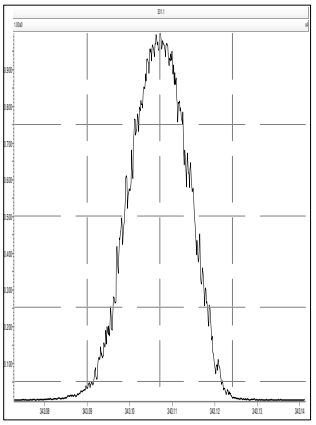
M 318.9792 R 11206



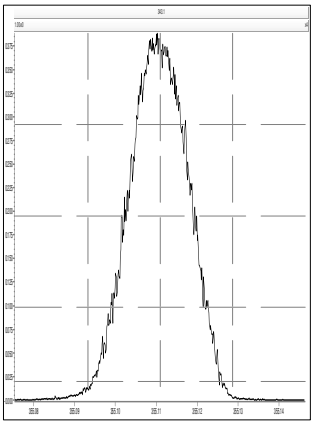
M 330.9792 R 11467



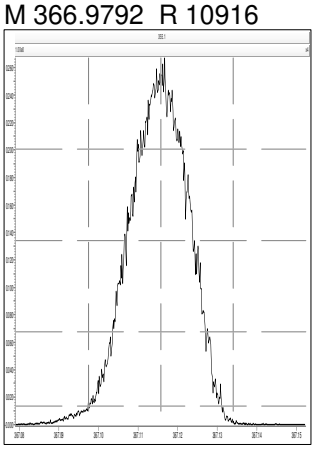
M 342.9792 R 11366



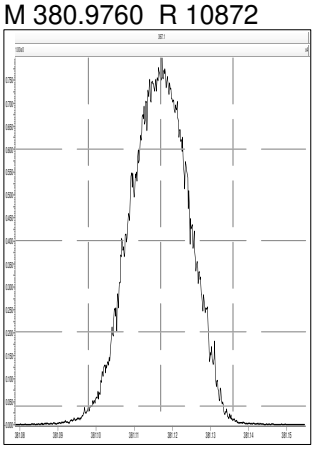
M 354.9792 R 11464



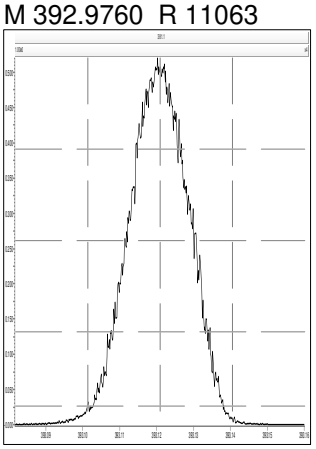
M 366.9792 R 10916



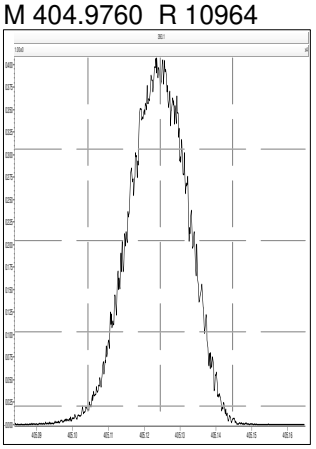
M 380.9760 R 10872



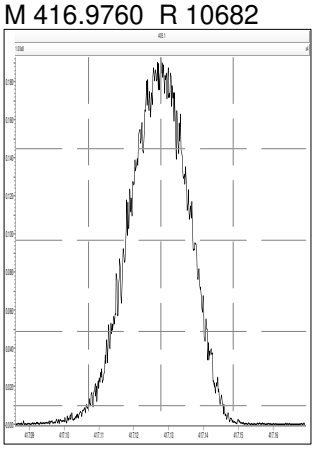
M 392.9760 R 11063



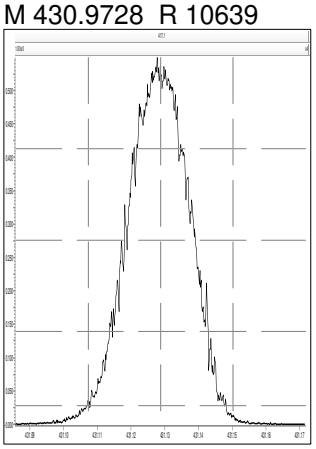
M 404.9760 R 10964



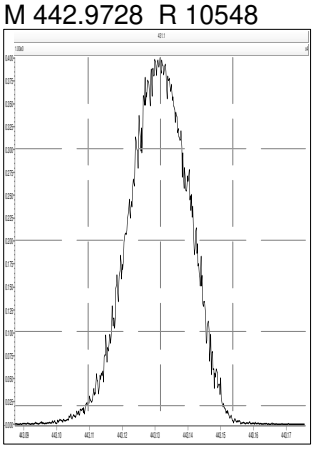
M 416.9760 R 10682



M 430.9728 R 10639



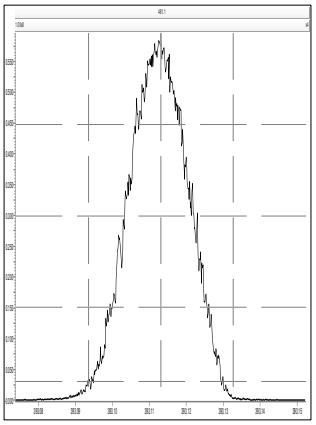
M 442.9728 R 10548



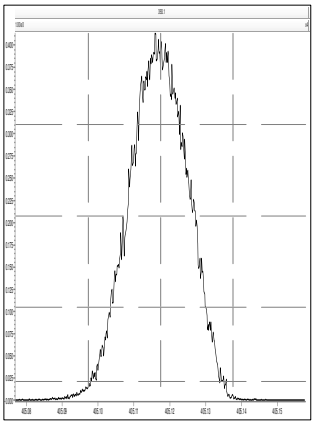
File: Experiment: 1668_octyl_1.exp Reference: Pfk.ref Function: 6 @ 200 (ppm)

Printed: Wednesday, December 02, 2020 09:29:12 Eastern Standard Time

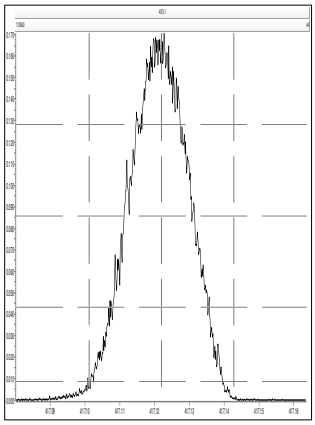
M 392.9760 R 11364



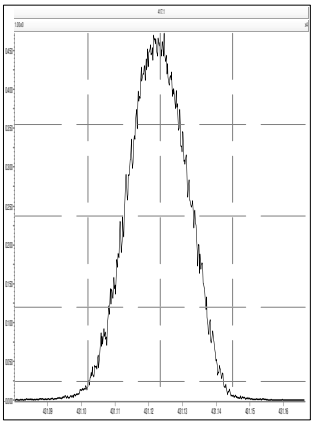
M 404.9760 R 11261



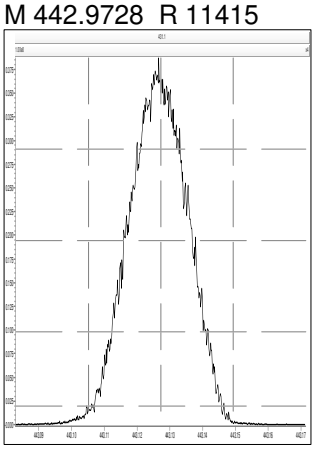
M 416.9760 R 11011



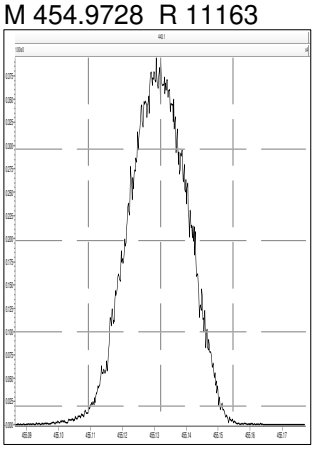
M 430.9728 R 10824



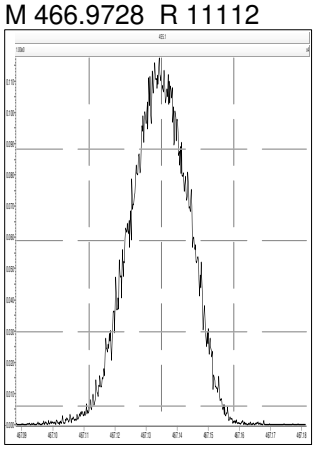
M 442.9728 R 11415



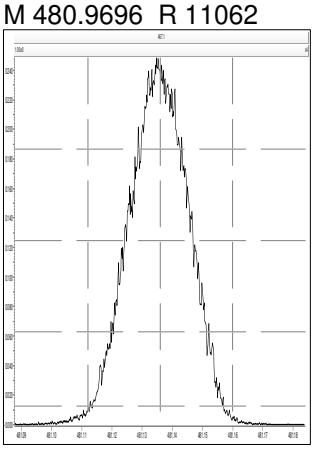
M 454.9728 R 11163



M 466.9728 R 11112



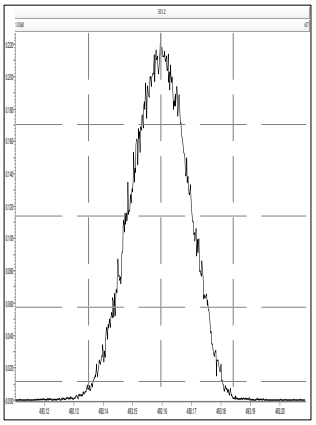
M 480.9696 R 11062



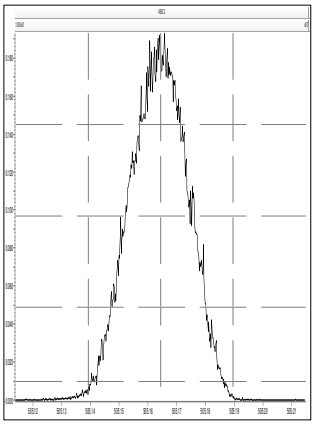
File: Experiment: 1668_octyl_1.exp Reference: Pfk.ref Function: 7 @ 200 (ppm)

Printed: Wednesday, December 02, 2020 09:35:11 Eastern Standard Time

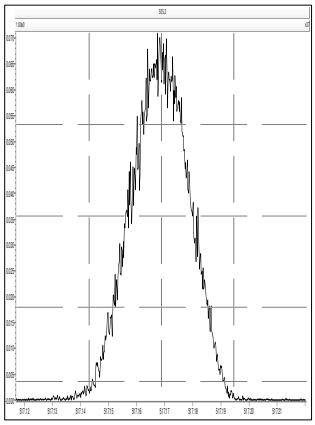
M 492.9696 R 11164



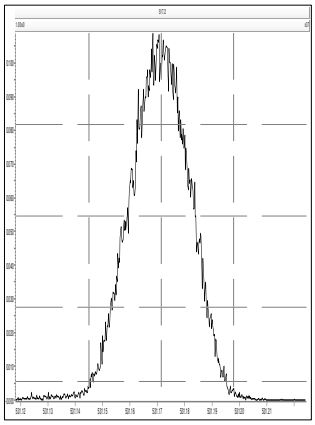
M 504.9696 R 11519



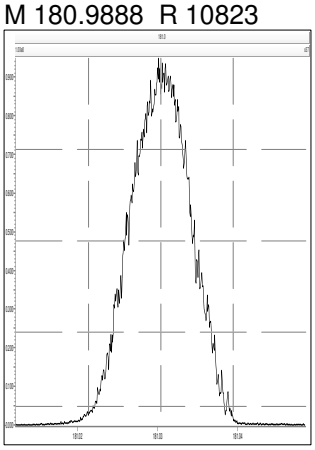
M 516.9697 R 11208



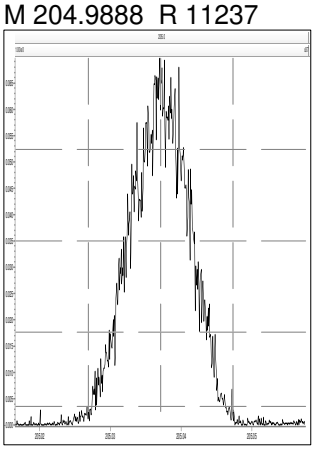
M 530.9664 R 10687



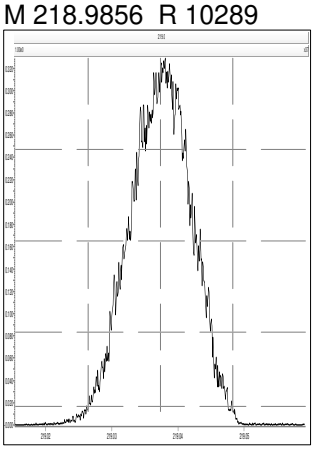
M 180.9888 R 10823



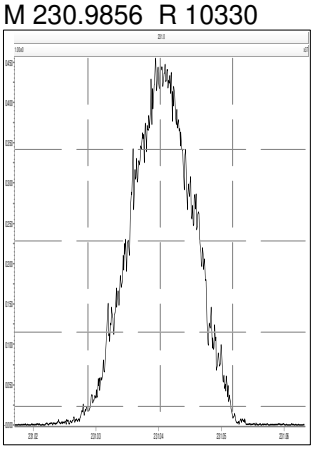
M 204.9888 R 11237



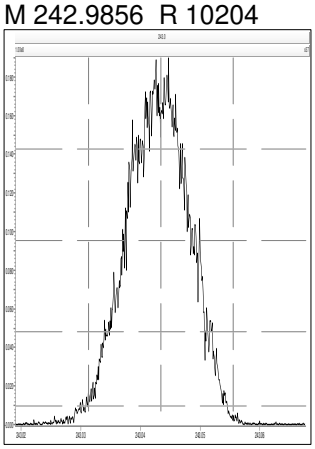
M 218.9856 R 10289



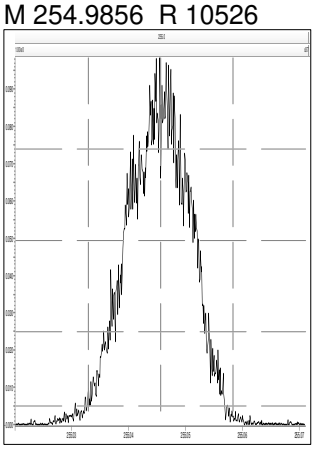
M 230.9856 R 10330



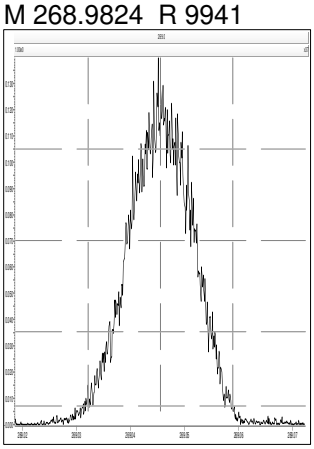
M 242.9856 R 10204



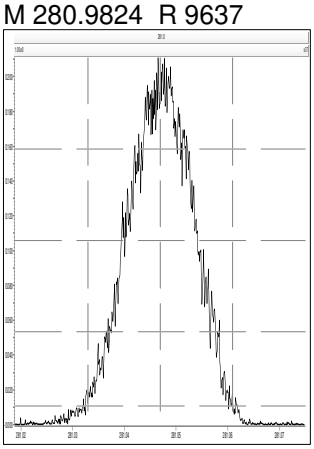
M 254.9856 R 10526



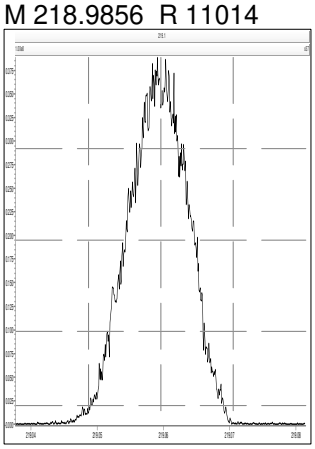
M 268.9824 R 9941



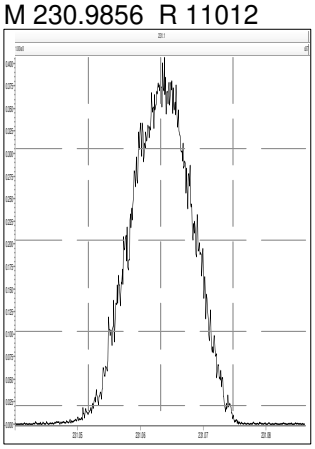
M 280.9824 R 9637



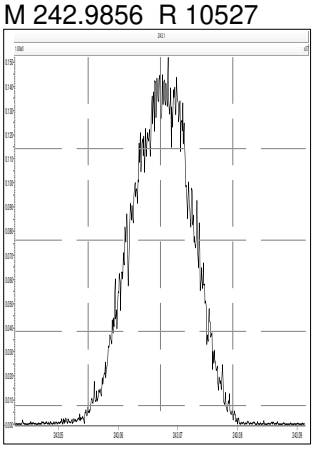
M 218.9856 R 11014



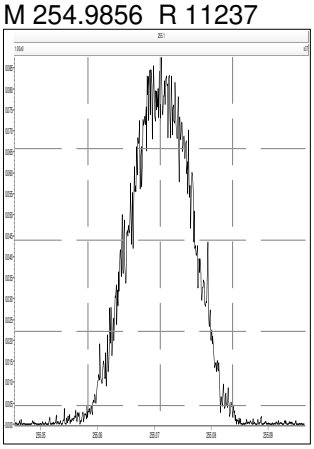
M 230.9856 R 11012



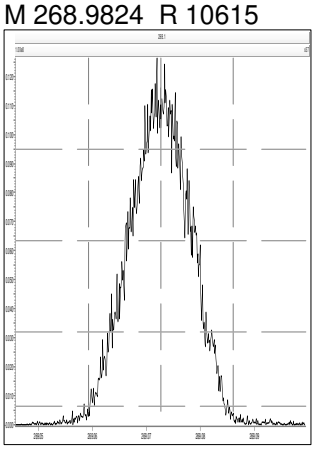
M 242.9856 R 10527



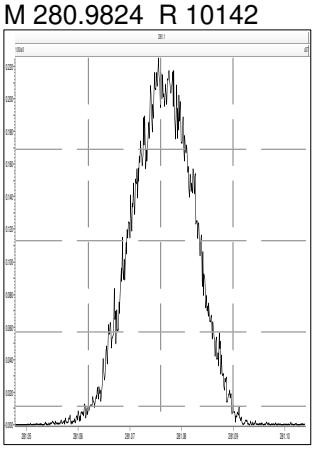
M 254.9856 R 11237



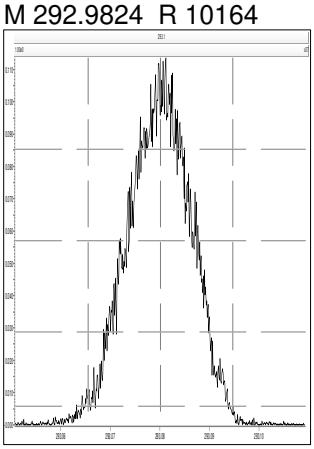
M 268.9824 R 10615



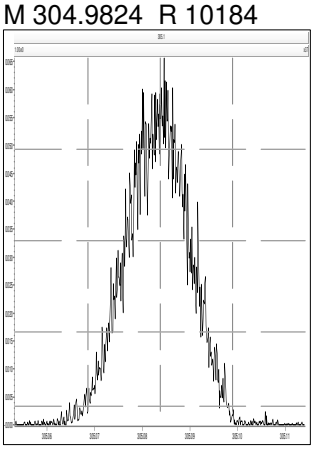
M 280.9824 R 10142



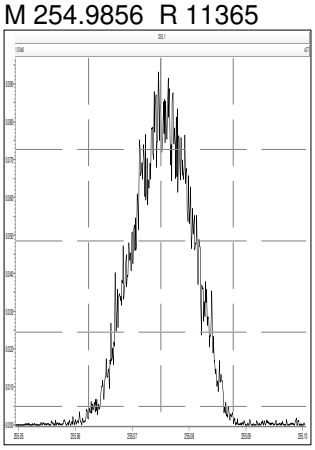
M 292.9824 R 10164



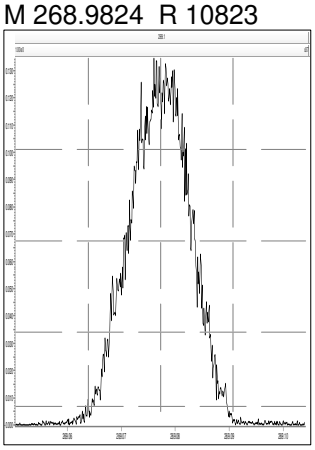
M 304.9824 R 10184



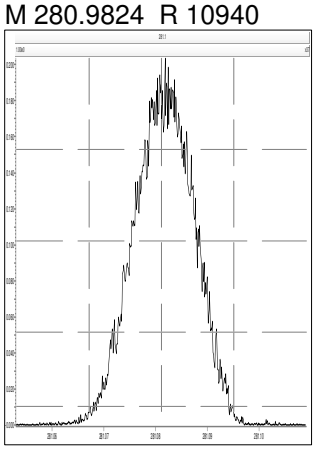
M 254.9856 R 11365



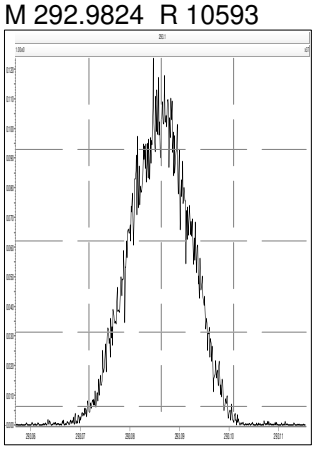
M 268.9824 R 10823



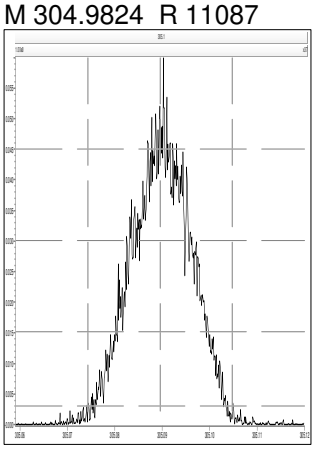
M 280.9824 R 10940



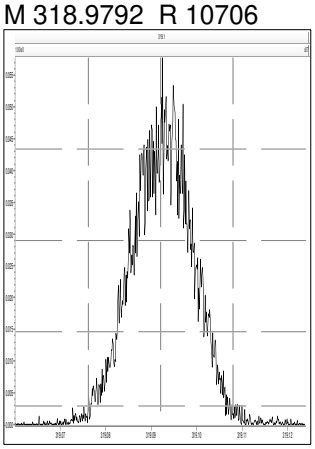
M 292.9824 R 10593



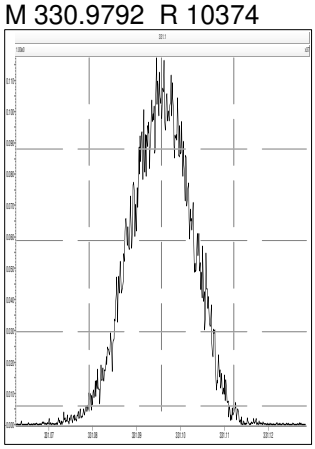
M 304.9824 R 11087



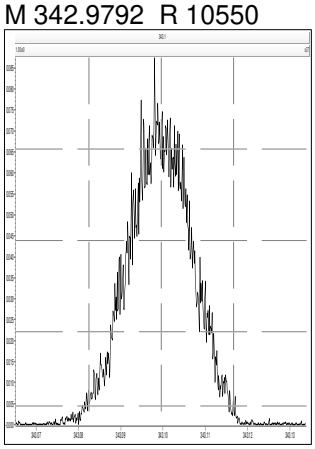
M 318.9792 R 10706



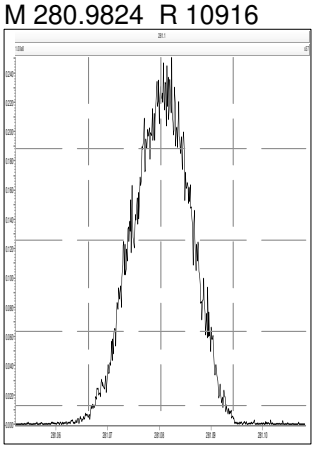
M 330.9792 R 10374



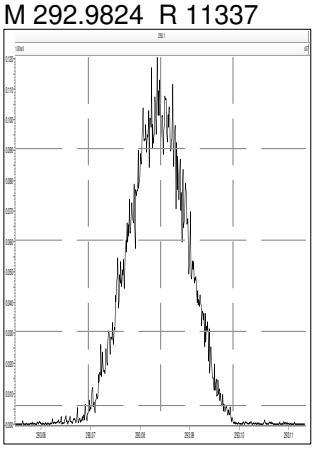
M 342.9792 R 10550



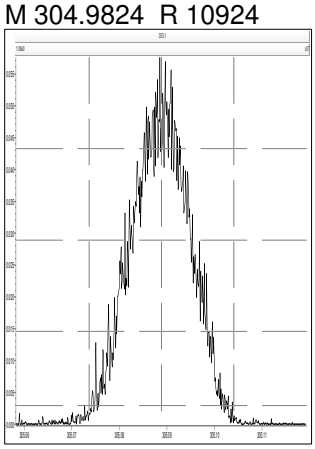
M 280.9824 R 10916



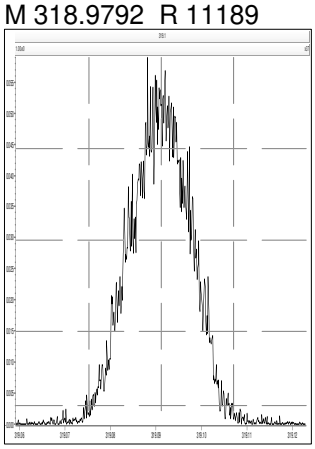
M 292.9824 R 11337



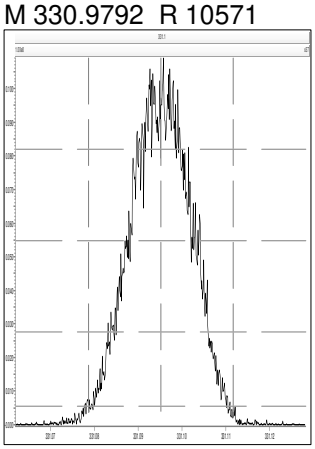
M 304.9824 R 10924



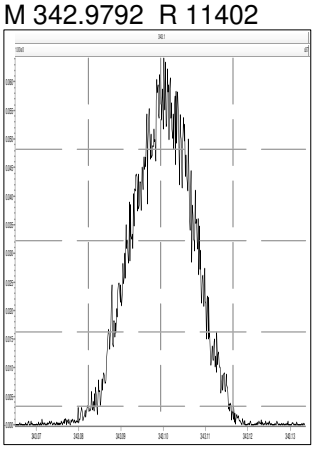
M 318.9792 R 11189



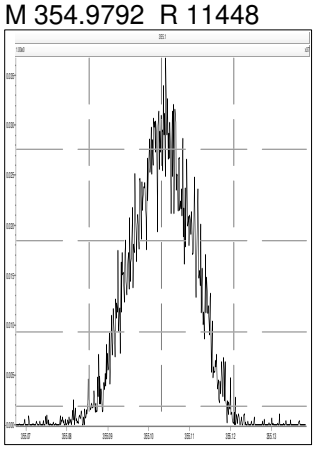
M 330.9792 R 10571



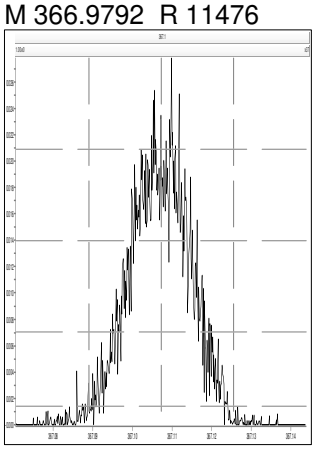
M 342.9792 R 11402



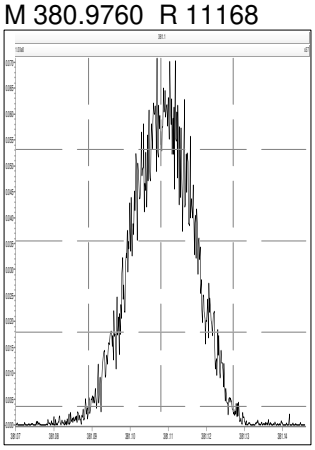
M 354.9792 R 11448



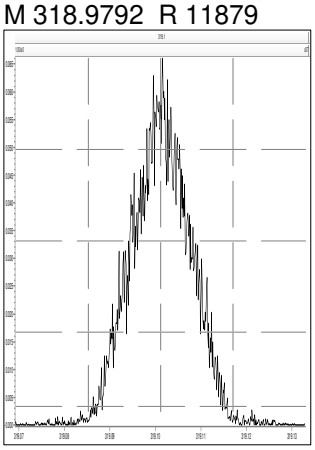
M 366.9792 R 11476



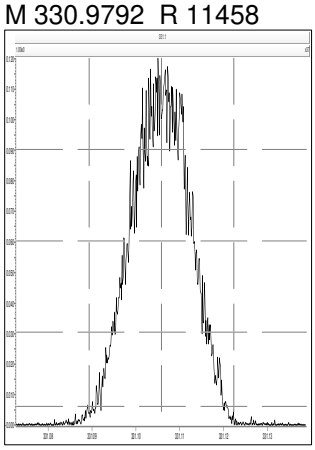
M 380.9760 R 11168



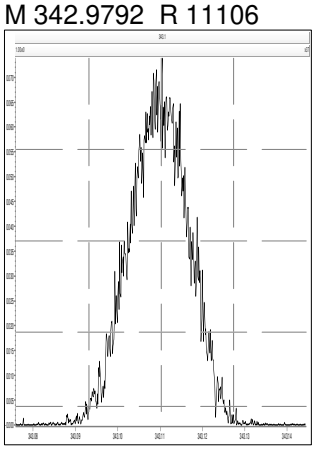
M 318.9792 R 11879



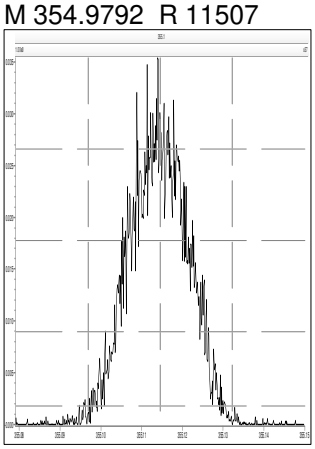
M 330.9792 R 11458



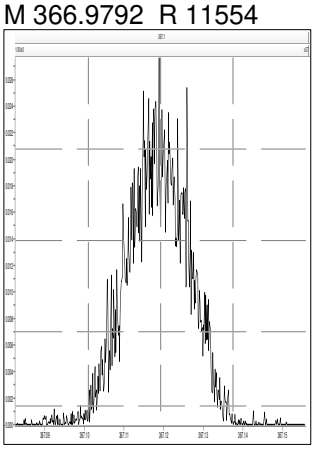
M 342.9792 R 11106



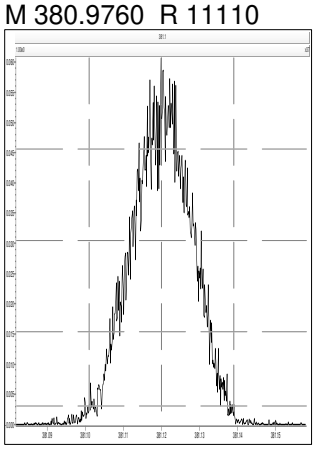
M 354.9792 R 11507



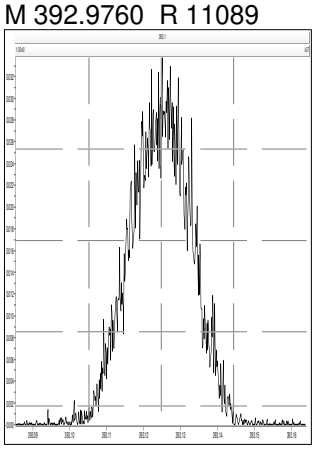
M 366.9792 R 11554



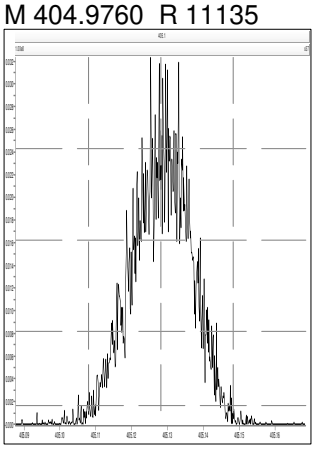
M 380.9760 R 11110



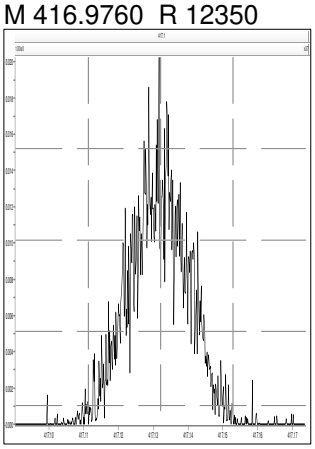
M 392.9760 R 11089



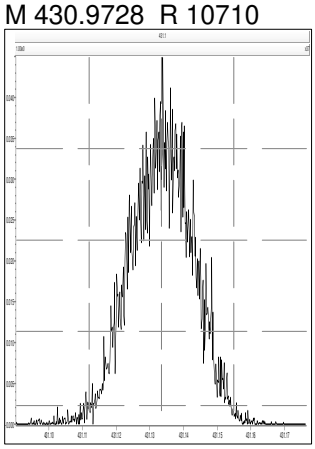
M 404.9760 R 11135



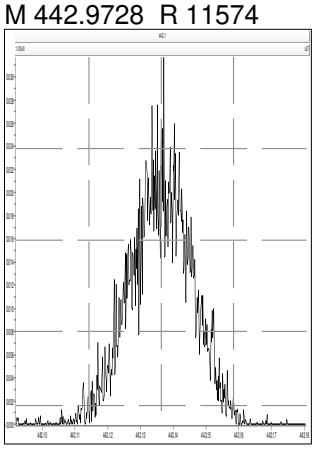
M 416.9760 R 12350



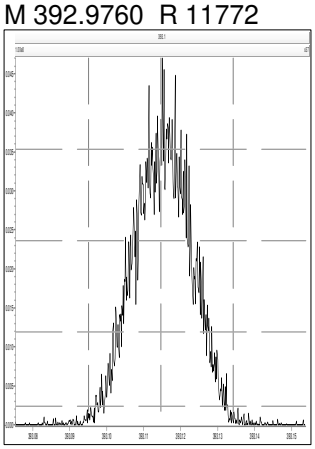
M 430.9728 R 10710



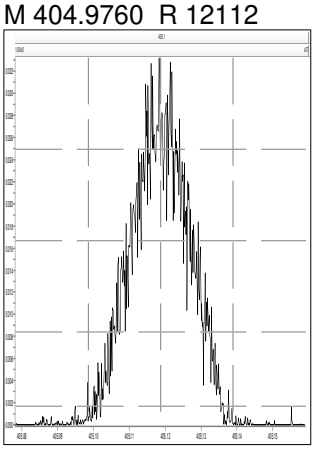
M 442.9728 R 11574



M 392.9760 R 11772



M 404.9760 R 12112



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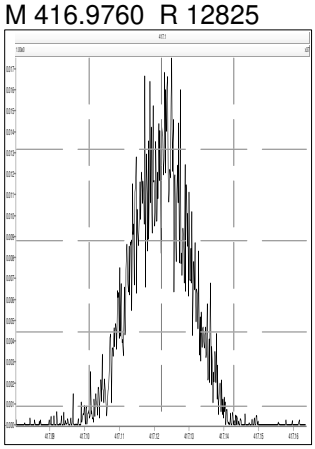
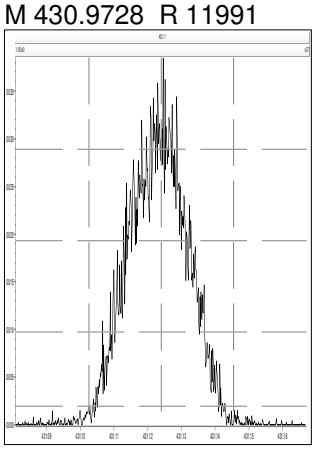
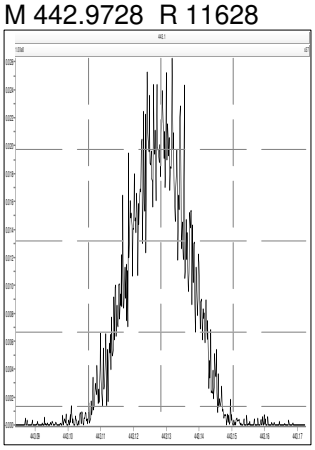


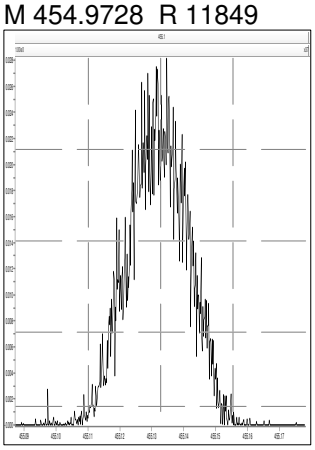
M 430.9728 R 11991



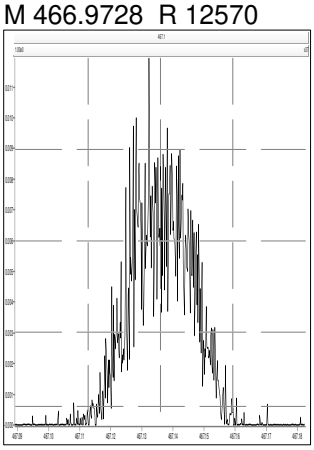
M 442.9728 R 11628



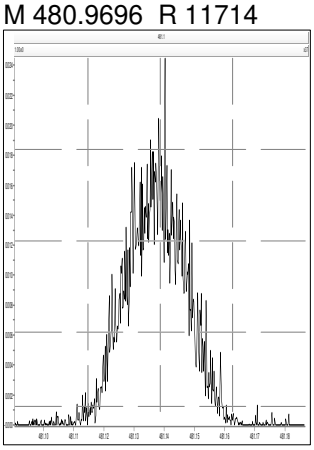
M 454.9728 R 11849



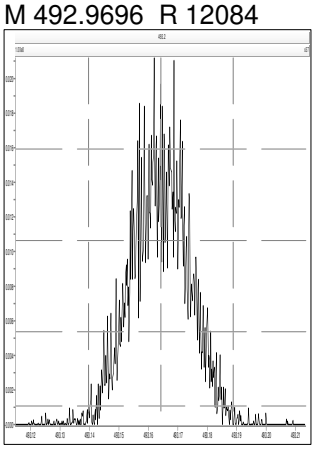
M 466.9728 R 12570



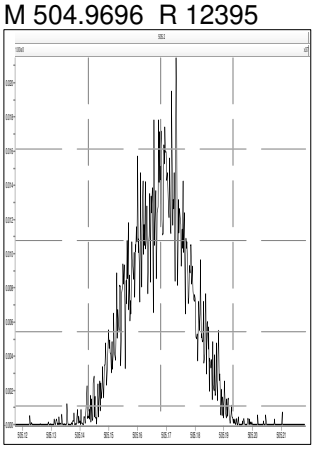
M 480.9696 R 11714



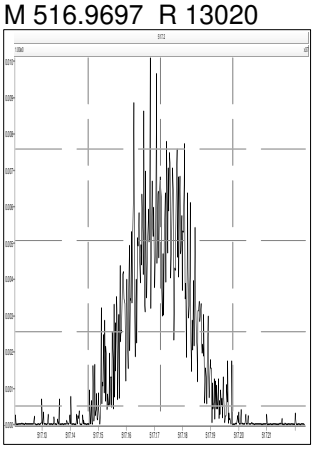
M 492.9696 R 12084



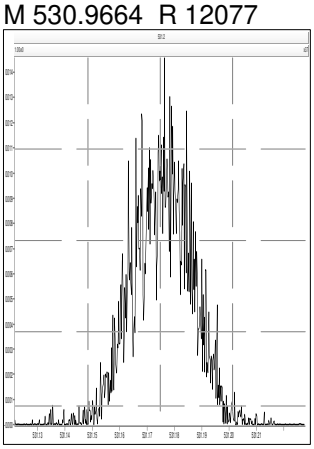
M 504.9696 R 12395



M 516.9697 R 13020



M 530.9664 R 12077



Sample List Report **MassLynx 4.1 SCN815 SCN795**

Sample List: C:\MassLynx\Default.pro\Sampledb\5_211102A_RUN.SPL
Last Modified: Tuesday, November 02, 2021 15:22:43 Eastern Daylight Time
Printed: Tuesday, November 02, 2021 15:22:53 Eastern Daylight Time

Page Position (1, 1)

	File Name	Sample ID	File Text	MS File	Inlet File	Bottle	Inject Vol
1	5_211102A01	H5_21_CCV_942	1668A-CS3-020C	1668_octyl_1	1668_octyl_1	Tray1:1	1.000000
2	5_211102A02	H5_21_WDM_943	1668A-CS7-020C	1668_octyl_1	1668_octyl_1	Tray1:2	1.000000
3	5_211102A03	TOL	IB	1668_octyl_1	1668_octyl_1	Tray1:3	1.000000
4	5_211102A04	WG3609127-1	MB	1668_octyl_1	1668_octyl_1	Tray1:4	1.000000
5	5_211102A05	L2633484-23	SAMPLE (No IS spiked, Reinject)	1668_octyl_1	1668_octyl_1	Tray1:5	1.000000
6	5_211102A06	L2632149-1	10XDIL	1668_octyl_1	1668_octyl_1	Tray1:6	1.000000
7	5_211102A07	L2621334-3	5XDIL	1668_octyl_1	1668_octyl_1	Tray1:7	1.000000
8	5_211102A08	L2621334-4	5XDIL	1668_octyl_1	1668_octyl_1	Tray1:8	1.000000
9	5_211102A09	TOL	IB	1668_octyl_1	1668_octyl_1	Tray1:3	1.000000
10	5_211102A10	WG3612503-1	MB	1668_octyl_1	1668_octyl_1	Tray1:10	1.000000
11	5_211102A11	WG3612503-4	RB	1668_octyl_1	1668_octyl_1	Tray1:11	1.000000
12	5_211102A12	L2633484-23	SAMPLE REINJECT	1668_octyl_1	1668_octyl_1	Tray1:5	1.000000
13	5_211102A13	L2630208-1	SAMPLE	1668_octyl_1	1668_octyl_1	Tray1:12	1.000000
14	5_211102A14	L2630208-2	SAMPLE	1668_octyl_1	1668_octyl_1	Tray1:13	1.000000
15	5_211102A15	WG3612503-2	LCS	1668_octyl_1	1668_octyl_1	Tray1:9	1.000000
16	5_211102A16	H5_21_CCV_944	1668A-CS3-020C	1668_octyl_1	1668_octyl_1	Tray1:1	1.000000
17	5_211102A17	H5_21_WDM_945	1668A-CS7-020C	1668_octyl_1	1668_octyl_1	Tray1:2	1.000000
18	5_211102A18	WG3603574-2	LCS	1668_octyl_1	1668_octyl_1	Tray1:14	1.000000
19	5_211102A19	WG3603564-2	LCS	1668_octyl_1	1668_octyl_1	Tray1:17	1.000000
20	5_211102A20	TOL	IB	1668_octyl_1	1668_octyl_1	Tray1:3	1.000000
21	5_211102A21	WG3603574-1	MB	1668_octyl_1	1668_octyl_1	Tray1:15	1.000000
22	5_211102A22	WG3603564-1	MB	1668_octyl_1	1668_octyl_1	Tray1:18	1.000000
23	5_211102A23	L2625428-2	20XDIL	1668_octyl_1	1668_octyl_1	Tray1:16	1.000000
24	5_211102A24	L2625428-1	SAMPLE	1668_octyl_1	1668_octyl_1	Tray1:19	1.000000
25	5_211102A25	H5_21_CCV_946	1668A-CS3-020C	1668_octyl_1	1668_octyl_1	Tray1:1	1.000000
26	---	---	---	---	---	---	0.000000
27	---	Op	NA	---	---	---	0.000000
28	---	Det	360	---	---	---	0.000000
29	---	Column	SPBOCTYL256001_02	---	---	---	0.000000

Vp 3-Nov-21 NA✓

MR✓

CCV✓

Tol✓

window✓

chro✓

A10/ A11 MB Contaminated

A6 RT shift (run on Dil 20X)

A8 lost LM _ reinject

	File Name	Sample ID	File Text	Sample Type	Na Conc A	Na Conc B	Na Conc C	Na Conc D	Na Conc E	Na Conc F	Na Conc G	Na Conc H	FS Conc	CS Conc	ES Conc 1	ES Conc 2	IS Conc	Sample Size
1	5_211102A01	H5_21_CCV_942	1668A-CS3-020C	Analyte	50	50	50	100	---	---	---	---	100	100	100	200	100	1.000
2	5_211102A02	H5_21_WDM_943	1668A-CS7-020C	Standard	25	50	75	100	150	200	250	300	100	100	100	200	100	1.000
3	5_211102A03	TOL	IB	Analyte	---	---	---	---	---	---	---	---	2000	2000	2000	4000	2000	1.000
4	5_211102A04	WG3609127-1	MB	Analyte	---	---	---	---	---	---	---	---	2000	2000	2000	4000	4000	1.000
5	5_211102A06	L2632149-1	10XDIL	Analyte	---	---	---	---	---	---	---	---	2000	2000	2000	4000	4000	1.000
6	5_211102A07	L2621334-3	5XDIL	Analyte	---	---	---	---	---	---	---	---	2000	2000	2000	4000	2000	1.000
7	5_211102A08	L2621334-4	5XDIL	Analyte	---	---	---	---	---	---	---	---	2000	2000	2000	4000	2000	1.000
8	5_211102A09	TOL	IB	Analyte	---	---	---	---	---	---	---	---	2000	2000	2000	4000	2000	1.000
9	5_211102A10	WG3612503-1	MB	Analyte	---	---	---	---	---	---	---	---	2000	6000	6000	12000	6000	1.000
10	5_211102A11	WG3612503-4	RB	Analyte	---	---	---	---	---	---	---	---	2000	6000	6000	12000	6000	1.000
11	5_211102A12	L2633484-23	SAMPLE REINJECT	Analyte	---	---	---	---	---	---	---	---	2000	2000	2000	4000	4000	1.000
12	5_211102A13	L2630208-1	SAMPLE	Analyte	---	---	---	---	---	---	---	---	2000	6000	6000	12000	6000	1.000
13	5_211102A14	L2630208-2	SAMPLE	Analyte	---	---	---	---	---	---	---	---	2000	6000	6000	12000	6000	1.000
14	5_211102A15	WG3612503-2	LCS	Analyte	3000	3000	3000	6000	---	---	---	---	2000	6000	6000	12000	6000	1.000
15	5_211102A16	H5_21_CCV_944	1668A-CS3-020C	Analyte	50	50	50	100	---	---	---	---	100	100	100	200	100	1.000
16	5_211102A17	H5_21_WDM_945	1668A-CS7-020C	Standard	25	50	75	100	150	200	250	300	100	100	100	200	100	1.000
17	5_211102A18	WG3603574-2	LCS	Analyte	2000	2000	2000	4000	---	---	---	---	4000	4000	4000	8000	4000	1.000
18	5_211102A19	WG3603564-2	LCS	Analyte	2000	2000	2000	4000	---	---	---	---	4000	4000	4000	8000	4000	1.000
19	5_211102A20	TOL	IB	Analyte	---	---	---	---	---	---	---	---	4000	4000	4000	8000	4000	1.000
20	5_211102A21	WG3603574-1	MB	Analyte	---	---	---	---	---	---	---	---	4000	4000	4000	8000	4000	1.000
21	5_211102A22	WG3603564-1	MB	Analyte	---	---	---	---	---	---	---	---	4000	4000	4000	8000	4000	1.000
22	5_211102A23	L2625428-2	20XDIL	Analyte	---	---	---	---	---	---	---	---	4000	4000	4000	8000	4000	1.000
23	5_211102A24	L2625428-1	SAMPLE	Analyte	---	---	---	---	---	---	---	---	4000	4000	4000	8000	4000	1.000
24	5_211102A25	H5_21_CCV_946	1668A-CS3-020C	Analyte	50	50	50	100	---	---	---	---	100	100	100	200	100	1.000
25	---	---	---	Standard	25	50	75	100	150	200	250	300	100	100	100	200	100	1.000
26	---	Op	NA	Analyte	---	---	---	---	---	---	---	---	---	---	---	---	---	1.000
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Quantify Sample Summary Report **MassLynx V4.2 SCN1012**

Dataset: I:\Organics Instrument\HIGHRES GCMS Completed Results Files\HR-5\5-211102A-QC1.qld

Last Altered: Wednesday, November 03, 2021 07:57:39 Eastern Daylight Time
Printed: Monday, November 08, 2021 16:16:24 Eastern Standard Time

Method: C:\MassLynx\PCB.PRO\MethDB\1668_OCTYL_ICAL.mdb 16 Sep 2021 12:25:18
Calibration: C:\MassLynx\PCB.PRO\CurveDB\5_201202A_ICAL.cdb 02 Dec 2020 16:02:34

Name: 5_211102A16, Date: 02-Nov-2021, Time: 20:25:55, ID: H5_21_CCV_944, Description: 1668A-CS3-020C, Vial: Tray1:1

	Target Analyte	#Hom	Total Area	Ion1 Area	Ion2 Area	Ra	Ra Fail=Y...	RT	RRT	RT LCL	RT UCL	Conc.	%Rec	Mod.Comment	Noise 1	Noise 2
1	PCB-1		3302418	2517718	784700	3.21	NO	8.91	1.00	8.88	8.94	45.44136	90.9		3215	2341
2	PCB-3		3134937	2382592	752345	3.17	NO	10.45	1.00	10.42	10.49	42.38234	84.8		3215	2341
3	PCB-4		1692186	1027710	664476	1.55	NO	10.61	1.00	10.57	10.64	49.07286	98.1		3525	13298
4	PCB-15		3033523	1871372	1162151	1.61	NO	14.30	1.00	14.26	14.33	47.79246	95.6		5414	21917
5	PCB-19		1544968	805234	739734	1.09	NO	12.61	1.00	12.58	12.64	50.38633	100.8		2377	2136
6	PCB-37		2466719	1255967	1210752	1.04	NO	18.25	1.00	18.21	18.28	48.76289	97.5		4863	5029
7	PCB-54		1961369	856099	1105270	0.77	NO	14.46	1.00	14.43	14.50	49.58994	99.2		879	1994
8	PCB-81		2293055	1014094	1278962	0.79	NO	21.83	1.00	21.79	21.86	48.51934	97.0		3086	3178
9	PCB-77		2295320	1012871	1282448	0.79	NO	22.13	1.00	22.10	22.17	47.27720	94.6		3086	3178
10	PCB-104		1998340	1221661	776679	1.57	NO	17.52	1.00	17.49	17.56	52.08906	104.2		1377	3755
11	PCB-123		1749090	1066463	682627	1.56	NO	23.11	1.00	23.08	23.14	48.29317	96.6		3532	4139
12	PCB-118		2032495	1251765	780730	1.60	NO	23.29	1.00	23.26	23.32	50.63953	101.3		3532	4139
13	PCB-114		1950435	1196831	753604	1.59	NO	23.58	1.00	23.55	23.61	47.00516	94.0		3532	4139
14	PCB-105		1942507	1192934	749573	1.59	NO	23.94	1.00	23.91	23.98	47.65249	95.3		3532	4139
15	PCB-126		1904858	1173368	731490	1.60	NO	25.54	1.00	25.50	25.57	48.85905	97.7		3532	4139
16	PCB-155		1997316	1112379	884937	1.26	NO	20.51	1.00	20.48	20.55	51.51621	103.0		1475	1168
17	PCB-167		1823354	1004051	819303	1.23	NO	26.42	1.00	26.39	26.45	50.64508	101.3		2451	1974
18	PCB-156/157		3651441	2017388	1634053	1.23	NO	27.06	1.00	27.03	27.09	101.84065	101.8		2451	1974
19	PCB-169		1826281	1015489	810792	1.25	NO	28.72	1.00	28.68	28.75	51.28082	102.6		2451	1974
20	PCB-188		1601324	813060	788264	1.03	NO	23.51	1.00	23.47	23.54	52.16534	104.3		2710	2280
21	PCB-189		1586411	812575	773836	1.05	NO	29.99	1.00	29.96	30.03	49.44790	98.9		1966	1268
22	PCB-202		1411269	664813	746455	0.89	NO	26.29	1.00	26.25	26.32	51.54961	103.1		743	1152
23	PCB-205		1282815	608538	674277	0.90	NO	31.37	1.00	31.34	31.41	51.14780	102.3		930	997
24	PCB-208		1304358	576264	728094	0.79	NO	29.70	1.00	29.67	29.73	46.89951	93.8		1087	2392
25	PCB-206		889661	391955	497706	0.79	NO	32.45	1.00	32.41	32.48	47.02350	94.0		1087	2392
26	PCB-209		1011823	544599	467224	1.17	NO	33.56	1.00	33.53	33.59	45.15111	90.3		439	560
27	13C-PCB-31		4720742	2436542	2284200	1.07	NO	15.81	0.87	15.78	15.84	104.62995	104.6		62849	37995
28	13C-PCB-95		2191560	1349487	842074	1.60	NO	19.12	1.09	19.08	19.15	102.25909	102.3		4363	5133
29	13C-PCB-153		2881724	1618291	1263433	1.28	NO	24.20	1.18	24.16	24.23	101.15154	101.2		5376	6734
30	13C-PCB-28		5268307	2743590	2524717	1.09	NO	15.99	0.94	15.95	16.02	98.95041	99.0		62849	37995
31	13C-PCB-111		3006180	1843788	1162392	1.59	NO	22.03	1.07	22.00	22.06	103.07221	103.1		4363	5133
32	13C-PCB-178		2074624	1053977	1020647	1.03	NO	25.08	1.01	25.05	25.11	95.95310	96.0		4905	2179
33	13C-PCB-1		6354479	4802464	1552015	3.09	NO	8.91	0.75	8.88	8.94	90.74183	90.7		5095	26085
34	13C-PCB-3		6186419	4681254	1505165	3.11	NO	10.44	0.88	10.40	10.47	99.38156	99.4		5095	26085

Quantify Sample Summary Report **MassLynx V4.2 SCN1012**

Dataset: I:\Organics Instrument\HIGHRES GCMS Completed Results Files\HR-5\5-211102A-QC1.qld

Last Altered: Wednesday, November 03, 2021 07:57:39 Eastern Daylight Time
Printed: Monday, November 08, 2021 16:16:24 Eastern Standard Time

Name: 5_211102A16, Date: 02-Nov-2021, Time: 20:25:55, ID: H5_21_CCV_944, Description: 1668A-CS3-020C, Vial: Tray1:1

	Target Analyte	#Hom	Total Area	Ion1 Area	Ion2 Area	Ra	Ra Fail=Y...	RT	RRT	RT LCL	RT UCL	Conc.	%Rec	Mod.Comment	Noise 1	Noise 2
35	13C-PCB-4		3872086	2367139	1504946	1.57	NO	10.59	0.89	10.56	10.63	88.37103	88.4		12993	4298
36	13C-PCB-15		5785685	3555980	2229705	1.59	NO	14.29	1.21	14.25	14.32	105.79348	105.8		15841	8113
37	13C-PCB-19		2636324	1340259	1296066	1.03	NO	12.60	1.06	12.56	12.63	80.48395	80.5		40534	24218
38	13C-PCB-37		4541734	2343540	2198195	1.07	NO	18.24	1.07	18.21	18.27	103.72664	103.7		62849	37995
39	13C-PCB-54		3703680	1623732	2079948	0.78	NO	14.45	0.85	14.42	14.49	71.90032	71.9		7812	5479
40	13C-PCB-81		3899728	1707132	2192596	0.78	NO	21.82	1.06	21.78	21.85	98.20707	98.2		10902	6856
41	13C-PCB-77		4180074	1851622	2328452	0.80	NO	22.12	1.07	22.09	22.16	103.48320	103.5		10902	6856
42	13C-PCB-104		3327354	2033564	1293790	1.57	NO	17.50	1.03	17.47	17.54	66.79738	66.8		2842	2005
43	13C-PCB-123		3287207	2021868	1265339	1.60	NO	23.10	1.12	23.06	23.13	94.52199	94.5		4956	5844
44	13C-PCB-118		3427621	2104971	1322650	1.59	NO	23.28	1.13	23.24	23.31	93.88851	93.9		4956	5844
45	13C-PCB-114		3374321	2088281	1286040	1.62	NO	23.57	0.95	23.53	23.60	101.38723	101.4		4956	5844
46	13C-PCB-105		3381910	2084824	1297086	1.61	NO	23.93	0.96	23.90	23.96	102.68533	102.7		4956	5844
47	13C-PCB-126		3217275	1985050	1232225	1.61	NO	25.53	1.03	25.49	25.56	107.68264	107.7		4956	5844
48	13C-PCB-155		3665867	2042657	1623210	1.26	NO	20.50	0.99	20.47	20.54	77.47016	77.5		1871	2172
49	13C-PCB-167		3262354	1831159	1431195	1.28	NO	26.41	1.06	26.37	26.44	99.55023	99.6		5376	6734
50	13C-PCB-156/157		6280237	3530014	2750223	1.28	NO	27.05	1.09	27.01	27.08	198.71582	99.4		5376	6734
51	13C-PCB-169		3262577	1846356	1416221	1.30	NO	28.70	1.15	28.67	28.74	109.88640	109.9		5376	6734
52	13C-PCB-188		3253898	1660366	1593533	1.04	NO	23.50	0.94	23.46	23.53	84.59240	84.6		4905	2179
53	13C-PCB-189		3179318	1633608	1545710	1.06	NO	29.98	0.96	29.94	30.01	105.84427	105.8		2705	2209
54	13C-PCB-202		2540526	1198823	1341703	0.89	NO	26.27	1.06	26.24	26.31	85.45764	85.5		1515	1346
55	13C-PCB-205		2739487	1272211	1467276	0.87	NO	31.36	1.01	31.33	31.39	91.64446	91.6		1328	2385
56	13C-PCB-208		2277258	1008646	1268612	0.80	NO	29.69	0.96	29.65	29.72	95.52762	95.5		1458	1720
57	13C-PCB-206		1562835	692710	870125	0.80	NO	32.42	1.04	32.39	32.45	93.58423	93.6		1458	1720
58	13C-PCB-209		2213726	1203406	1010320	1.19	NO	33.54	1.08	33.51	33.58	83.08435	83.1		636	526
59	13C-PCB-9		6512604	3978113	2534492	1.57	NO	11.85	0.48	11.82	11.89	325.44668	325.4		12993	4298
60	13C-PCB-52		3019300	1348988	1670312	0.81	NO	16.98	0.68	16.94	17.01	381.91277	381.9		10890	5514
61	13C-PCB-101		2563607	1567144	996463	1.57	NO	20.64	0.83	20.61	20.68	488.42691	488.4		4363	5133
62	13C-PCB-138		2585486	1450834	1134652	1.28	NO	24.89	0.00	24.85	24.92	517.31806	517.3		5376	6734
63	13C-PCB-194		2007998	947480	1060518	0.89	NO	31.08	1.25	31.05	31.11	600.43607	600.4		1328	2385
64	Total MoCB-F1	4		5073230								187879.50212			3215	
65	Total DiCB-F1	2		1075337								87212.14270			3525	
66	Total DiCB-F2	2		1875291								6782.48846			5414	
67	Total TrCB-F1	2		806060								1426.45794			2377	
68	Total TrCB-F3	6		3926187								4710743.347...			4863	
69	Total TeCB-F2	1		856099								49.58994			879	
70	Total TeCB-F4	8		2055296								52469.82616			3086	
71	Total PeCB-F3	1		1221661								52.08906			1377	

Quantify Sample Summary Report **MassLynx V4.2 SCN1012**

Dataset: I:\Organics Instrument\HIGHRES GCMS Completed Results Files\HR-5\5-211102A-QC1.qld

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Printed: Monday, November 08, 2021 16:16:24 Eastern Standard Time

Name: 5_211102A16, Date: 02-Nov-2021, Time: 20:25:55, ID: H5_21_CCV_944, Description: 1668A-CS3-020C, Vial: Tray1:1

	Target Analyte	#Hom	Total Area	Ion1 Area	Ion2 Area	Ra	Ra Fail=Y...	RT	RRT	RT LCL	RT UCL	Conc.	%Rec	Mod.Comment	Noise 1	Noise 2
72	Total PeCB-F5	13		6008433								171470.46016			3532	
73	Total HxCB-F4	2		1113110								1285.71967			1475	
74	Total HxCB-F5	18		4225867								314002.45624			2451	
75	Total HpCB-F5	12		3229283								5050324.434...			2710	
76	Total HpCB-F6	4		880108								115425.30388			1966	
77	Total OcCB-F5	6		673346								16533.34869			743	
78	Total OcCB-F6	4		661403								119661.30671			930	
79	Total NoCB-F6	4		971260								5488.00364			1087	
80	Total DeCB-F7	1		544599								45.15111			439	
81	Total 13C-MoCB-F1	2		9483718								190.12339			5095	
82	Total 13C-DiCB-F1	3		6354589								415.33167			12993	
83	Total 13C-DiCB-F2	3		6907230								6521604.208...			15841	
84	Total 13C-TrCB-F1	1		1340259								80.48395			40534	
85	Total 13C-TrCB-F3	5		7548240								31451.38509			62849	
86	Total 13C-TeCB-F2	1		1623732								71.90032			7812	
87	Total 13C-TeCB-F3	4		1385422								391.99634			10890	
88	Total 13C-TeCB-F4	8		3631734								93824.06131			10902	
89	Total 13C-PeCB-F3	2		2034184								848.09194			2842	
90	Total 13C-PeCB-F4	12		4783399								715.52847			4363	
91	Total 13C-PeCB-F5	15		10521991								294671.85914			4956	
92	Total 13C-HxCB-F4	5		2055000								11605.92662			1871	
93	Total 13C-HxCB-F5	14		10385867								1209.11078			5376	
94	Total 13C-HpCB-F5	10		2759894								79787.60364			4905	
95	Total 13C-HpCB-F6	5		1809089								255017.62518			2705	
96	Total 13C-OcCB-F5	7		1206869								15300.09186			1515	
97	Total 13C-OcCB-F6	6		2281754								768.59970			1328	
98	Total 13C-NoCB-F6	5		1704480								7030.31411			1458	
99	Total 13C-DeCB-F7	1		1203406								83.08435			636	
100	Lockmass F1			0											17839...	
101	Lockmass F2			0											760575	
102	Lockmass F3			0											1198830	
103	Lockmass F4			0											640942	
104	Lockmass F5			0											238371	
105	Lockmass F6			0											246917	
106	Lockmass F7			0											52027	

Quantify Sample Summary Report **MassLynx V4.2 SCN1012**

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Name: 5_211102A25, Date: 03-Nov-2021, Time: 02:55:26, ID: H5_21_CCV_946, Description: 1668A-CS3-020C, Vial: Tray1:1

	Target Analyte	#Hom	Total Area	Ion1 Area	Ion2 Area	Ra	Ra Fail=Y...	RT	RRT	RT LCL	RT UCL	Conc.	%Rec	Mod.Comment	Noise 1	Noise 2
1	PCB-1		3255994	2485196	770798	3.22	NO	8.91	1.00	8.88	8.94	45.30515	90.6		3291	2273
2	PCB-3		3057547	2324851	732697	3.17	NO	10.44	1.00	10.40	10.47	42.80497	85.6		3291	2273
3	PCB-4		1697548	1022187	675361	1.51	NO	10.59	1.00	10.56	10.63	49.64525	99.3		2428	9456
4	PCB-15		3000811	1823207	1177604	1.55	NO	14.29	1.00	14.25	14.32	48.90505	97.8		4872	20456
5	PCB-19		1509480	787412	722068	1.09	NO	12.60	1.00	12.56	12.63	49.47838	99.0		2233	2696
6	PCB-37		2436268	1236349	1199920	1.03	NO	18.24	1.00	18.21	18.27	48.64163	97.3		4306	5297
7	PCB-54		1920187	847526	1072661	0.79	NO	14.44	1.00	14.41	14.48	49.61130	99.2		1827	2086
8	PCB-81		2278987	1006880	1272107	0.79	NO	21.81	1.00	21.77	21.84	48.29081	96.6		2153	2199
9	PCB-77		2252355	992928	1259428	0.79	NO	22.12	1.00	22.09	22.16	48.02164	96.0		2153	2199
10	PCB-104		1996618	1217725	778893	1.56	NO	17.50	1.00	17.47	17.54	52.65294	105.3		1372	3060
11	PCB-123		1736737	1060450	676288	1.57	NO	23.10	1.00	23.06	23.13	48.63268	97.3		4357	3683
12	PCB-118		2024259	1237918	786341	1.57	NO	23.27	1.00	23.23	23.30	50.37964	100.8		4357	3683
13	PCB-114		1962289	1200172	762118	1.57	NO	23.57	1.00	23.53	23.60	48.02261	96.0		4357	3683
14	PCB-105		1952621	1189617	763005	1.56	NO	23.92	1.00	23.89	23.95	48.07987	96.2		4357	3683
15	PCB-126		2001406	1229042	772364	1.59	NO	25.51	1.00	25.48	25.55	49.05438	98.1		4357	3683
16	PCB-155		1994036	1112656	881380	1.26	NO	20.50	1.00	20.47	20.54	50.97946	102.0		940	1102
17	PCB-167		1852232	1019371	832861	1.22	NO	26.41	1.00	26.37	26.44	50.55185	101.1		2602	3804
18	PCB-156/157		3750270	2064863	1685406	1.23	NO	27.04	1.00	27.00	27.07	102.03388	102.0		2602	3804
19	PCB-169		1879835	1035831	844004	1.23	NO	28.70	1.00	28.67	28.74	50.45254	100.9		2602	3804
20	PCB-188		1604625	823331	781294	1.05	NO	23.50	1.00	23.46	23.53	52.79157	105.6		1749	1665
21	PCB-189		1586460	808474	777985	1.04	NO	29.98	1.00	29.94	30.01	49.75749	99.5		1998	1182
22	PCB-202		1428378	676268	752110	0.90	NO	26.27	1.00	26.24	26.31	51.36052	102.7		736	820
23	PCB-205		1282485	613036	669449	0.92	NO	31.36	1.00	31.33	31.39	50.36487	100.7		839	1077
24	PCB-208		1328607	589247	739360	0.80	NO	29.69	1.00	29.65	29.72	47.24845	94.5		1618	2878
25	PCB-206		901263	394713	506550	0.78	NO	32.42	1.00	32.39	32.45	48.11938	96.2		1618	2878
26	PCB-209		990160	536677	453483	1.18	NO	33.55	1.00	33.51	33.58	45.47952	91.0		388	335
27	13C-PCB-31		4647258	2409778	2237480	1.08	NO	15.80	0.87	15.77	15.83	103.84283	103.8		55132	21680
28	13C-PCB-95		2182353	1344448	837905	1.60	NO	19.11	1.09	19.07	19.14	102.84258	102.8		4781	4051
29	13C-PCB-153		2906305	1628333	1277972	1.27	NO	24.18	1.18	24.15	24.22	99.62311	99.6		4279	5064
30	13C-PCB-28		5210409	2665451	2544958	1.05	NO	15.97	0.94	15.93	16.00	99.67361	99.7		55132	21680
31	13C-PCB-111		3017033	1856084	1160949	1.60	NO	22.02	1.07	21.99	22.05	102.89251	102.9		4781	4051
32	13C-PCB-178		2104160	1070499	1033661	1.04	NO	25.07	1.01	25.03	25.10	95.31771	95.3		2552	3117
33	13C-PCB-1		6283987	4738363	1545624	3.07	NO	8.90	0.75	8.86	8.93	90.15878	90.2		2976	21724
34	13C-PCB-3		5974126	4517446	1456680	3.10	NO	10.42	0.88	10.39	10.46	96.42421	96.4		2976	21724
35	13C-PCB-4		3839571	2341707	1497864	1.56	NO	10.58	0.89	10.55	10.61	88.04259	88.0		23998	4519
36	13C-PCB-15		5593091	3401778	2191312	1.55	NO	14.27	1.21	14.24	14.30	102.75457	102.8		20643	9497
37	13C-PCB-19		2623035	1349697	1273337	1.06	NO	12.58	1.06	12.55	12.62	80.45622	80.5		33316	19816

Quantify Sample Summary Report **MassLynx V4.2 SCN1012**

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Name: 5_211102A25, Date: 03-Nov-2021, Time: 02:55:26, ID: H5_21_CCV_946, Description: 1668A-CS3-020C, Vial: Tray1:1

	Target Analyte	#Hom	Total Area	Ion1 Area	Ion2 Area	Ra	Ra Fail=Y...	RT	RRT	RT LCL	RT UCL	Conc.	%Rec	Mod.Comment	Noise 1	Noise 2
38	13C-PCB-37		4496852	2327313	2169538	1.07	NO	18.23	1.07	18.20	18.26	104.60176	104.6		55132	21680
39	13C-PCB-54		3624354	1577602	2046752	0.77	NO	14.43	0.85	14.40	14.47	71.66215	71.7		7576	3846
40	13C-PCB-81		3894144	1716088	2178056	0.79	NO	21.80	1.06	21.77	21.83	97.54331	97.5		7109	5469
41	13C-PCB-77		4038243	1759930	2278314	0.77	NO	22.10	1.07	22.07	22.14	99.43869	99.4		7109	5469
42	13C-PCB-104		3288884	2004212	1284672	1.56	NO	17.49	1.03	17.46	17.53	65.67287	65.7		2060	3407
43	13C-PCB-123		3241206	1976564	1264642	1.56	NO	23.08	1.12	23.05	23.12	92.70207	92.7		6715	8458
44	13C-PCB-118		3431342	2103834	1327508	1.58	NO	23.25	1.13	23.22	23.29	93.48903	93.5		6715	8458
45	13C-PCB-114		3322904	2040180	1282724	1.59	NO	23.56	0.95	23.52	23.59	99.30970	99.3		6715	8458
46	13C-PCB-105		3369302	2049014	1320287	1.55	NO	23.91	0.96	23.87	23.94	101.75674	101.8		6715	8458
47	13C-PCB-126		3366883	2065736	1301147	1.59	NO	25.50	1.03	25.47	25.54	112.08888	112.1		6715	8458
48	13C-PCB-155		3698379	2064789	1633591	1.26	NO	20.49	0.99	20.45	20.52	77.74031	77.7		2614	2098
49	13C-PCB-167		3320135	1847564	1472571	1.25	NO	26.40	1.06	26.36	26.43	99.22980	99.2		4279	5064
50	13C-PCB-156/157		6438001	3612652	2825349	1.28	NO	27.04	1.09	27.00	27.07	199.51827	99.8		4279	5064
51	13C-PCB-169		3413382	1911465	1501916	1.27	NO	28.69	1.15	28.66	28.73	112.60125	112.6		4279	5064
52	13C-PCB-188		3221928	1646200	1575728	1.04	NO	23.48	0.94	23.45	23.52	82.03865	82.0		2552	3117
53	13C-PCB-189		3159633	1622243	1537391	1.06	NO	29.96	0.96	29.93	30.00	103.02563	103.0		4022	2329
54	13C-PCB-202		2580793	1222773	1358019	0.90	NO	26.26	1.06	26.23	26.30	85.02677	85.0		4173	1798
55	13C-PCB-205		2781357	1312163	1469194	0.89	NO	31.35	1.01	31.31	31.38	94.49838	94.5		3027	2057
56	13C-PCB-208		2302463	1020703	1281760	0.80	NO	29.67	0.96	29.64	29.70	98.09348	98.1		1925	1334
57	13C-PCB-206		1547159	683341	863818	0.79	NO	32.41	1.04	32.37	32.44	94.09252	94.1		1925	1334
58	13C-PCB-209		2150686	1172261	978425	1.20	NO	33.52	1.08	33.48	33.55	81.97909	82.0		581	539
59	13C-PCB-9		6482007	3966657	2515351	1.58	NO	11.84	0.48	11.81	11.87	323.91769	323.9		23998	4519
60	13C-PCB-52		2964452	1323417	1641036	0.81	NO	16.97	0.68	16.93	17.00	374.97502	375.0		7721	4954
61	13C-PCB-101		2577356	1583797	993558	1.59	NO	20.63	0.83	20.60	20.67	491.04645	491.0		4781	4051
62	13C-PCB-138		2639775	1484229	1155546	1.28	NO	24.87	0.00	24.84	24.91	528.18055	528.2		4279	5064
63	13C-PCB-194		1977118	928693	1048425	0.89	NO	31.07	1.25	31.03	31.10	591.20221	591.2		3027	2057
64	Total MoCB-F1	4		4979502								188718.01788			3291	
65	Total DiCB-F1	2		1064201								79527.98031			2428	
66	Total DiCB-F2	1		1823207								48.90505			4872	
67	Total TrCB-F1	1		787412								49.47838			2233	
68	Total TrCB-F3	6		3850092								4596902.752...			4306	
69	Total TeCB-F2	2		848011								787.85825			1827	
70	Total TeCB-F4	9		2026024								49249.47721			2153	
71	Total PeCB-F3	1		1217725								52.65294			1372	
72	Total PeCB-F5	15		6052265								183358.25377			4357	
73	Total HxCB-F4	3		1113494								1939.98753			940	
74	Total HxCB-F5	22		4323155								335198.42054			2602	

Quantify Sample Summary Report **MassLynx V4.2 SCN1012**

Dataset: I:\Organics Instrument\HIGHRES GCMS Completed Results Files\HR-5\5-211102A-QC1.qld

Last Altered: Wednesday, November 03, 2021 07:57:39 Eastern Daylight Time
Printed: Monday, November 08, 2021 16:16:24 Eastern Standard Time

Name: 5_211102A25, Date: 03-Nov-2021, Time: 02:55:26, ID: H5_21_CCV_946, Description: 1668A-CS3-020C, Vial: Tray1:1

	Target Analyte	#Hom	Total Area	Ion1 Area	Ion2 Area	Ra	Ra Fail=Y...	RT	RRT	RT LCL	RT UCL	Conc.	%Rec	Mod.Comment	Noise 1	Noise 2
75	Total HpCB-F5	12		3367836								5319118.099...			1749	
76	Total HpCB-F6	4		882772								126780.58641			1998	
77	Total OcCB-F5	6		683185								13939.70922			736	
78	Total OcCB-F6	4		666224								122268.39063			839	
79	Total NoCB-F6	3		985540								2906.30152			1618	
80	Total DeCB-F7	1		536677								45.47952			388	
81	Total 13C-MoCB-F1	3		9267764								17384.03596			2976	
82	Total 13C-DiCB-F1	3		6316046								413.29528			23998	
83	Total 13C-DiCB-F2	2		6693814								6397732.432...			20643	
84	Total 13C-TrCB-F1	2		1432928								187038.66906			33316	
85	Total 13C-TrCB-F3	8		7491422								91239.65859			55132	
86	Total 13C-TeCB-F2	1		1577602								71.66215			7576	
87	Total 13C-TeCB-F3	4		1357497								384.81475			7721	
88	Total 13C-TeCB-F4	8		3560683								118186.81931			7109	
89	Total 13C-PeCB-F3	2		2004985								679.12159			2060	
90	Total 13C-PeCB-F4	9		4804302								713.85493			4781	
91	Total 13C-PeCB-F5	14		10486580								315756.00581			6715	
92	Total 13C-HxCB-F4	3		2075216								10097.89233			2614	
93	Total 13C-HxCB-F5	19		10591056								1229.49088			4279	
94	Total 13C-HpCB-F5	10		2762352								77063.52016			2552	
95	Total 13C-HpCB-F6	7		1813845								288007.94900			4022	
96	Total 13C-OcCB-F5	11		1255253								44923.77777			4173	
97	Total 13C-OcCB-F6	4		2303891								764.77364			3027	
98	Total 13C-NoCB-F6	3		1705688								3602.45205			1925	
99	Total 13C-DeCB-F7	1		1172261								81.97909			581	
100	Lockmass F1			0											1126655	
101	Lockmass F2			0											455451	
102	Lockmass F3			0											10980...	
103	Lockmass F4			0											646521	
104	Lockmass F5			0											211611	
105	Lockmass F6			0											198068	
106	Lockmass F7			0											41743	

Quantify Sample Summary Report **MassLynx V4.2 SCN1012**

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Printed: Monday, November 08, 2021 16:16:24 Eastern Standard Time

Name: 5_211102A19, Date: 02-Nov-2021, Time: 22:42:12, ID: WG3603564-2, Description: LCS, Vial: Tray1:17

	Target Analyte	#Hom	Total Area	Ion1 Area	Ion2 Area	Ra	Ra Fail=Y...	RT	RRT	RT LCL	RT UCL	Conc.	%Rec	Mod.Comment	Noise 1	Noise 2
1	PCB-1		1465029	1112627	352403	3.16	NO	8.90	1.00	8.86	8.93	1968.73200	98.4		3400	2533
2	PCB-3		1398505	1065417	333088	3.20	NO	10.44	1.00	10.40	10.47	1876.21198	93.8		3400	2533
3	PCB-4		858572	518731	339841	1.53	NO	10.59	1.00	10.56	10.63	2181.06794	109.1		3508	13811
4	PCB-15		1721418	1053812	667607	1.58	NO	14.29	1.00	14.25	14.32	2027.52827	101.4		5054	21010
5	PCB-19		839182	436366	402817	1.08	NO	12.60	1.00	12.56	12.63	2189.77600	109.5		2448	2947
6	PCB-37		1961021	1000695	960326	1.04	NO	18.24	1.00	18.21	18.27	2034.53613	101.7		3182	3294
7	PCB-54		1161118	508845	652273	0.78	NO	14.46	1.00	14.43	14.50	2185.64646	109.3		1403	2619
8	PCB-81		2067527	905027	1162500	0.78	NO	21.82	1.00	21.78	21.85	1961.73247	98.1		1823	3043
9	PCB-77		2084454	919227	1165227	0.79	NO	22.12	1.00	22.09	22.16	1991.00698	99.6		1823	3043
10	PCB-104		1288521	793680	494841	1.60	NO	17.51	1.00	17.48	17.55	2016.90567	100.8		1486	2133
11	PCB-123		1697500	1035531	661969	1.56	NO	23.11	1.00	23.08	23.14	1975.45794	98.8		3423	5543
12	PCB-118		1889538	1160936	728602	1.59	NO	23.28	1.00	23.24	23.31	2046.08607	102.3		3423	5543
13	PCB-114		1866793	1148438	718355	1.60	NO	23.57	1.00	23.53	23.60	1988.25928	99.4		3423	5543
14	PCB-105		1848491	1130903	717588	1.58	NO	23.93	1.00	23.90	23.96	1917.54139	95.9		3423	5543
15	PCB-126		1822631	1123439	699192	1.61	NO	25.51	1.00	25.48	25.55	1852.77460	92.6		3423	5543
16	PCB-155		1558336	866001	692335	1.25	NO	20.50	1.00	20.47	20.54	2107.83898	105.4		1285	915
17	PCB-167		1751784	969541	782242	1.24	NO	26.41	1.00	26.37	26.44	1985.36417	99.3		2236	1997
18	PCB-156/157		3544410	1957647	1586763	1.23	NO	27.05	1.00	27.01	27.08	4053.35599	101.3		2236	1997
19	PCB-169		1878566	1076277	802289	1.34	NO	28.70	1.00	28.67	28.74	1995.45408	99.8		2236	1997
20	PCB-188		1448670	732628	716042	1.02	NO	23.51	1.00	23.47	23.54	2162.78894	108.1		1213	998
21	PCB-189		1515538	774677	740861	1.05	NO	29.98	1.00	29.94	30.01	2014.12318	100.7		1235	1080
22	PCB-202		1404417	660313	744104	0.89	NO	26.27	1.00	26.24	26.31	2132.13694	106.6		2256	2103
23	PCB-205		1034485	488177	546308	0.89	NO	31.36	1.00	31.33	31.39	1921.13888	96.1		1445	1415
24	PCB-208		1173761	515701	658060	0.78	NO	29.70	1.00	29.67	29.73	1829.59796	91.5		1125	2002
25	PCB-206		783112	345144	437968	0.79	NO	32.43	1.00	32.40	32.47	1804.23583	90.2		1125	2002
26	PCB-209		979006	529558	449448	1.18	NO	33.56	1.00	33.53	33.59	2055.32674	102.8		485	504
27	13C-PCB-31						YES								53633	36429
28	13C-PCB-95						YES								3822	2815
29	13C-PCB-153		7240	4238	3002	1.41	NO	24.20	1.18	24.16	24.23	10.83483	0.3		3172	3328
30	13C-PCB-28		1704459	872544	831915	1.05	NO	15.98	0.94	15.94	16.01	1036.29263	25.9		53633	36429
31	13C-PCB-111		1455839	890858	564981	1.58	NO	22.02	1.07	21.99	22.05	1574.52546	39.4		3822	2815
32	13C-PCB-178		1152789	586678	566111	1.04	NO	25.07	1.01	25.03	25.10	1688.95946	42.2		2531	2442
33	13C-PCB-1		2602669	1962442	640227	3.07	NO	8.90	0.75	8.86	8.93	1179.60992	29.5		4433	24558
34	13C-PCB-3		2493662	1856636	637026	2.91	NO	10.42	0.88	10.39	10.46	1271.43994	31.8		4433	24558
35	13C-PCB-4		1768095	1079036	689059	1.57	NO	10.59	0.89	10.56	10.63	1280.74413	32.0		13830	4687
36	13C-PCB-15		3095611	1901573	1194038	1.59	NO	14.28	1.20	14.24	14.31	1796.56256	44.9		21459	8439
37	13C-PCB-19		1317980	664210	653770	1.02	NO	12.58	1.06	12.55	12.62	1277.05934	31.9		43429	22320

Quantify Sample Summary Report **MassLynx V4.2 SCN1012**

Dataset: I:\Organics Instrument\HIGHRES GCMS Completed Results Files\HR-5\5-211102A-QC1.qld

Last Altered: Wednesday, November 03, 2021 07:57:39 Eastern Daylight Time
Printed: Monday, November 08, 2021 16:16:24 Eastern Standard Time

Name: 5_211102A19, Date: 02-Nov-2021, Time: 22:42:12, ID: WG3603564-2, Description: LCS, Vial: Tray1:17

	Target Analyte	#Hom	Total Area	Ion1 Area	Ion2 Area	Ra	Ra Fail=Y...	RT	RRT	RT LCL	RT UCL	Conc.	%Rec	Mod.Comment	Noise 1	Noise 2
38	13C-PCB-37		3461533	1785490	1676043	1.07	NO	18.22	1.07	18.19	18.25	2559.09598	64.0		53633	36429
39	13C-PCB-54		1989867	869213	1120654	0.78	NO	14.44	0.85	14.41	14.48	1250.46316	31.3		7384	4290
40	13C-PCB-81		3478612	1542628	1935984	0.80	NO	21.80	1.06	21.77	21.83	2763.27470	69.1		9302	8241
41	13C-PCB-77		3605555	1622686	1982868	0.82	NO	22.11	1.07	22.08	22.15	2815.57787	70.4		9302	8241
42	13C-PCB-104		2216368	1342203	874165	1.54	NO	17.50	1.03	17.47	17.54	1403.49852	35.1		1662	1741
43	13C-PCB-123		3119627	1913739	1205888	1.59	NO	23.08	1.12	23.05	23.12	2829.55484	70.7		5791	4853
44	13C-PCB-118		3154603	1935592	1219012	1.59	NO	23.27	1.13	23.23	23.30	2725.67430	68.1		5791	4853
45	13C-PCB-114		3054103	1880453	1173650	1.60	NO	23.56	0.95	23.52	23.59	2894.61073	72.4		5791	4853
46	13C-PCB-105		3199025	1971933	1227092	1.61	NO	23.92	0.96	23.89	23.95	3063.89279	76.6		5791	4853
47	13C-PCB-126		3247183	1983531	1263652	1.57	NO	25.50	1.03	25.47	25.53	3428.26058	85.7		5791	4853
48	13C-PCB-155		2796130	1559639	1236491	1.26	NO	20.49	0.99	20.46	20.53	1863.90894	46.6		3096	1920
49	13C-PCB-167		3198142	1781677	1416466	1.26	NO	26.40	1.06	26.36	26.43	3091.42305	77.3		3172	3328
50	13C-PCB-156/157		6126637	3439196	2687441	1.28	NO	27.04	1.09	27.00	27.07	6140.84419	76.8		3172	3328
51	13C-PCB-169		3449792	1992157	1457635	1.37	NO	28.69	1.15	28.66	28.73	3680.65922	92.0		3172	3328
52	13C-PCB-188		2840025	1439310	1400715	1.03	NO	23.50	0.94	23.46	23.53	2338.83225	58.5		2531	2442
53	13C-PCB-189		2982682	1532284	1450398	1.06	NO	29.96	0.96	29.93	30.00	3145.50093	78.6		2290	1571
54	13C-PCB-202		2445008	1160453	1284555	0.90	NO	26.26	1.06	26.23	26.30	2605.29651	65.1		2555	2887
55	13C-PCB-205		2352651	1110747	1241904	0.89	NO	31.35	1.01	31.31	31.38	2781.21115	69.5		1649	1442
56	13C-PCB-208		2101202	937336	1163865	0.81	NO	29.69	0.96	29.65	29.72	3114.75584	77.9		1805	1350
57	13C-PCB-206		1434149	634914	799235	0.79	NO	32.42	1.04	32.39	32.45	3034.75288	75.9		1805	1350
58	13C-PCB-209		1882141	1023929	858212	1.19	NO	33.53	1.08	33.50	33.56	2496.24404	62.4		656	585
59	13C-PCB-9		8207726	4987066	3220660	1.55	NO	11.85	0.48	11.82	11.89	410.15500	10.3		13830	4687
60	13C-PCB-52		3730928	1665067	2065861	0.81	NO	16.97	0.68	16.93	17.00	471.92687	11.8		9235	5346
61	13C-PCB-101		3250886	1991094	1259793	1.58	NO	20.63	0.83	20.60	20.67	619.36975	15.5		3822	2815
62	13C-PCB-138		3264770	1830888	1433882	1.28	NO	24.87	0.00	24.84	24.91	653.23296	16.3		3172	3328
63	13C-PCB-194		2272918	1069852	1203067	0.89	NO	31.07	1.25	31.03	31.10	679.65302	17.0		1649	1442
64	Total MoCB-F1	6		2255027								90105.37631			3400	
65	Total DiCB-F1	2		543144								49162.58305			3508	
66	Total DiCB-F2	2		1065402								20330.91997			5054	
67	Total TrCB-F1	1		436366								2189.77600			2448	
68	Total TrCB-F3	7		1015248								27021.30453			3182	
69	Total TeCB-F2	2		509357								3625.38706			1403	
70	Total TeCB-F4	12		1850853								53905.02887			1823	
71	Total PeCB-F3	8		889739								221337.35866			1486	
72	Total PeCB-F5	20		6760641								1528084.628...			3423	
73	Total HxCB-F4	2		866308								2607.39190			1285	
74	Total HxCB-F5	16		4038767								62204.25019			2236	

Quantify Sample Summary Report **MassLynx V4.2 SCN1012**

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Printed: Monday, November 08, 2021 16:16:24 Eastern Standard Time

Name: 5_211102A19, Date: 02-Nov-2021, Time: 22:42:12, ID: WG3603564-2, Description: LCS, Vial: Tray1:17

	Target Analyte	#Hom	Total Area	Ion1 Area	Ion2 Area	Ra	Ra Fail=Y...	RT	RRT	RT LCL	RT UCL	Conc.	%Rec	Mod.Comment	Noise 1	Noise 2
75	Total HpCB-F5	8		764151								66825.07973			1213	
76	Total HpCB-F6	6		1249435								612322.26949			1235	
77	Total OcCB-F5	7		675632								22650.64078			2256	
78	Total OcCB-F6	4		532218								103400.23045			1445	
79	Total NoCB-F6	3		861275								4498.16172			1125	
80	Total DeCB-F7	1		529558								2055.32674			485	
81	Total 13C-MoCB-F1	4		3836063								26646.14584			4433	
82	Total 13C-DiCB-F1	3		6070861								1691.69348			13830	
83	Total 13C-DiCB-F2	1		1901573								1796.56256			21459	
84	Total 13C-TrCB-F1	3		1432112								1714829.433...			43429	
85	Total 13C-TrCB-F3	4		2675549								28513.07271			53633	
86	Total 13C-TeCB-F2	1		869213								1250.46316			7384	
87	Total 13C-TeCB-F3	6		1674714								474.58256			9235	
88	Total 13C-TeCB-F4	6		3194644								42448.06882			9302	
89	Total 13C-PeCB-F3	2		1419498								104686.48494			1662	
90	Total 13C-PeCB-F4	9		2899490								2211.20004			3822	
91	Total 13C-PeCB-F5	15		10463404								896804.02815			5791	
92	Total 13C-HxCB-F4	5		1569600								11985.50279			3096	
93	Total 13C-HxCB-F5	13		9111655								13679.87931			3172	
94	Total 13C-HpCB-F5	8		2065697								72635.39325			2531	
95	Total 13C-HpCB-F6	6		2251020								836559.69832			2290	
96	Total 13C-OcCB-F5	6		1192668								37389.84223			2555	
97	Total 13C-OcCB-F6	5		2237540								3532.36106			1649	
98	Total 13C-NoCB-F6	3		1572736								7243.55333			1805	
99	Total 13C-DeCB-F7	1		1023929								2496.24404			656	
100	Lockmass F1			0											14240...	
101	Lockmass F2			0											613688	
102	Lockmass F3			0											10985...	
103	Lockmass F4			0											669826	
104	Lockmass F5			0											205142	
105	Lockmass F6			0											349838	
106	Lockmass F7			0											35667	

Quantify Audit Report MassLynx V4.2 SCN1012

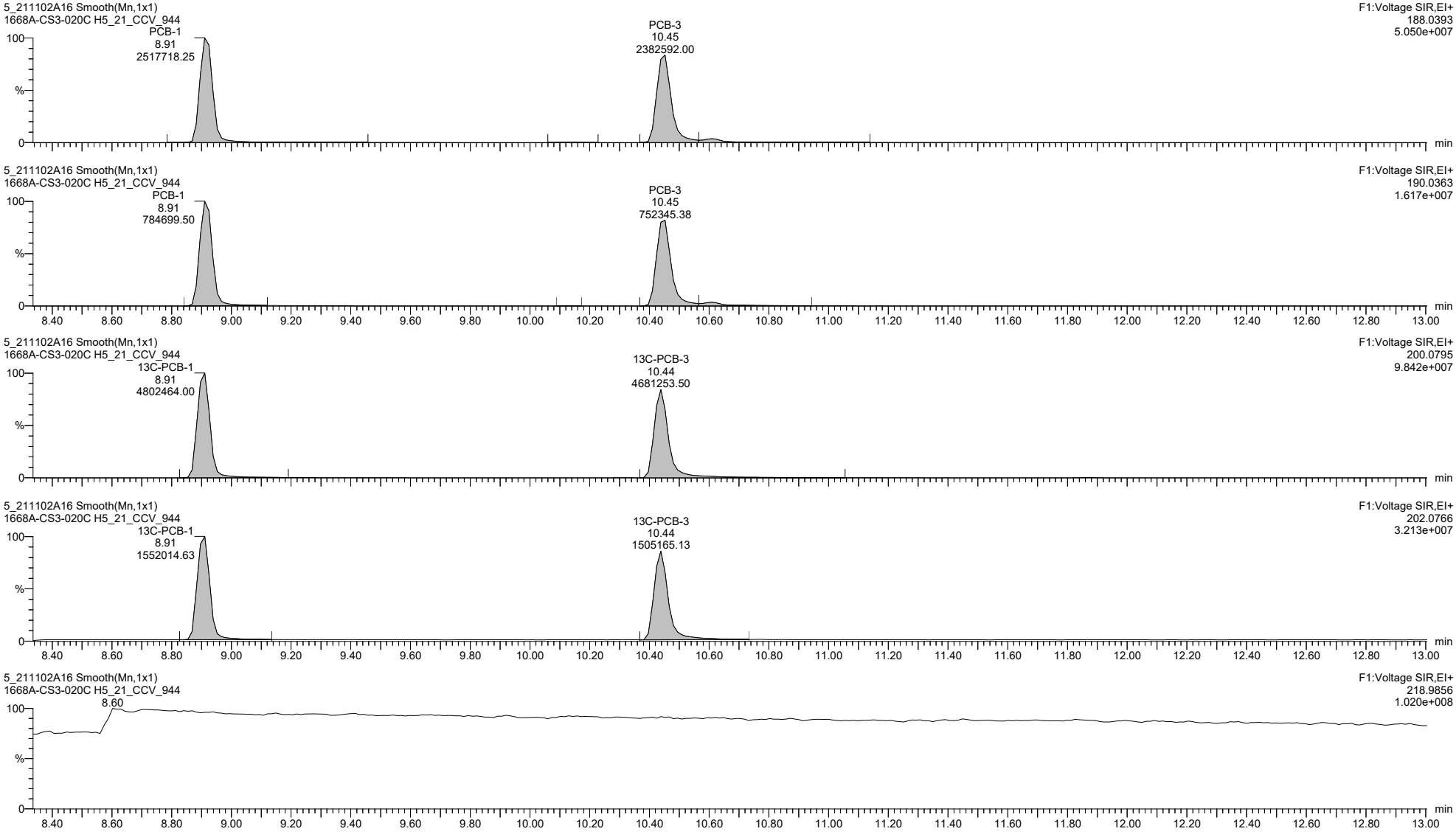
Dataset: I:\Organics Instrument\HIGHRES GCMS Completed Results Files\HR-5\5-211102A-QC1.qld

Last Altered: Wednesday, November 03, 2021 07:57:39 Eastern Daylight Time
Printed: Monday, November 08, 2021 16:16:24 Eastern Standard Time

Date	Time	Event	Details	Comments
03-Nov-21	07:57:38	Process Extract		
03-Nov-21	07:57:38	Process Integrate		
03-Nov-21	07:57:38	Process Quantify		
03-Nov-21	07:57:39	Dataset Created		
03-Nov-21	08:01:37	Dataset Saved	Saved to 'I:\Organics Instrument\HIGHRES GCMS Complete...	

Method: C:\MassLynx\PCB.PRO\MethDB\1668_OCTYL_ICAL.mdb 16 Sep 2021 12:25:18
Calibration: C:\MassLynx\PCB.PRO\CurveDB\5_201202A_ICAL.cdb 02 Dec 2020 16:02:34

Name: 5_211102A16, Date: 02-Nov-2021, Time: 20:25:55, ID: H5_21_CCV_944, Description: 1668A-CS3-020C, Vial: Tray1:1



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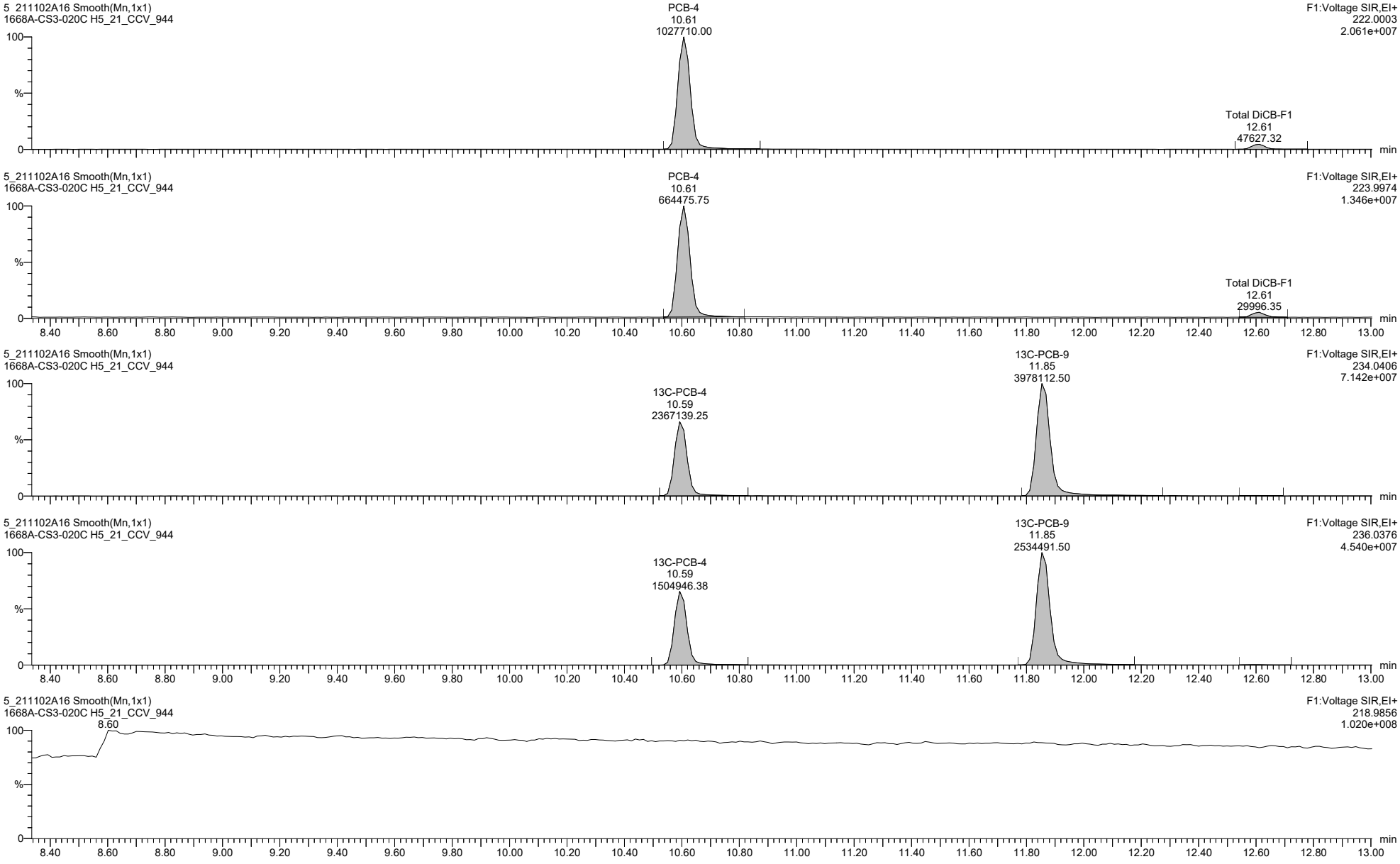

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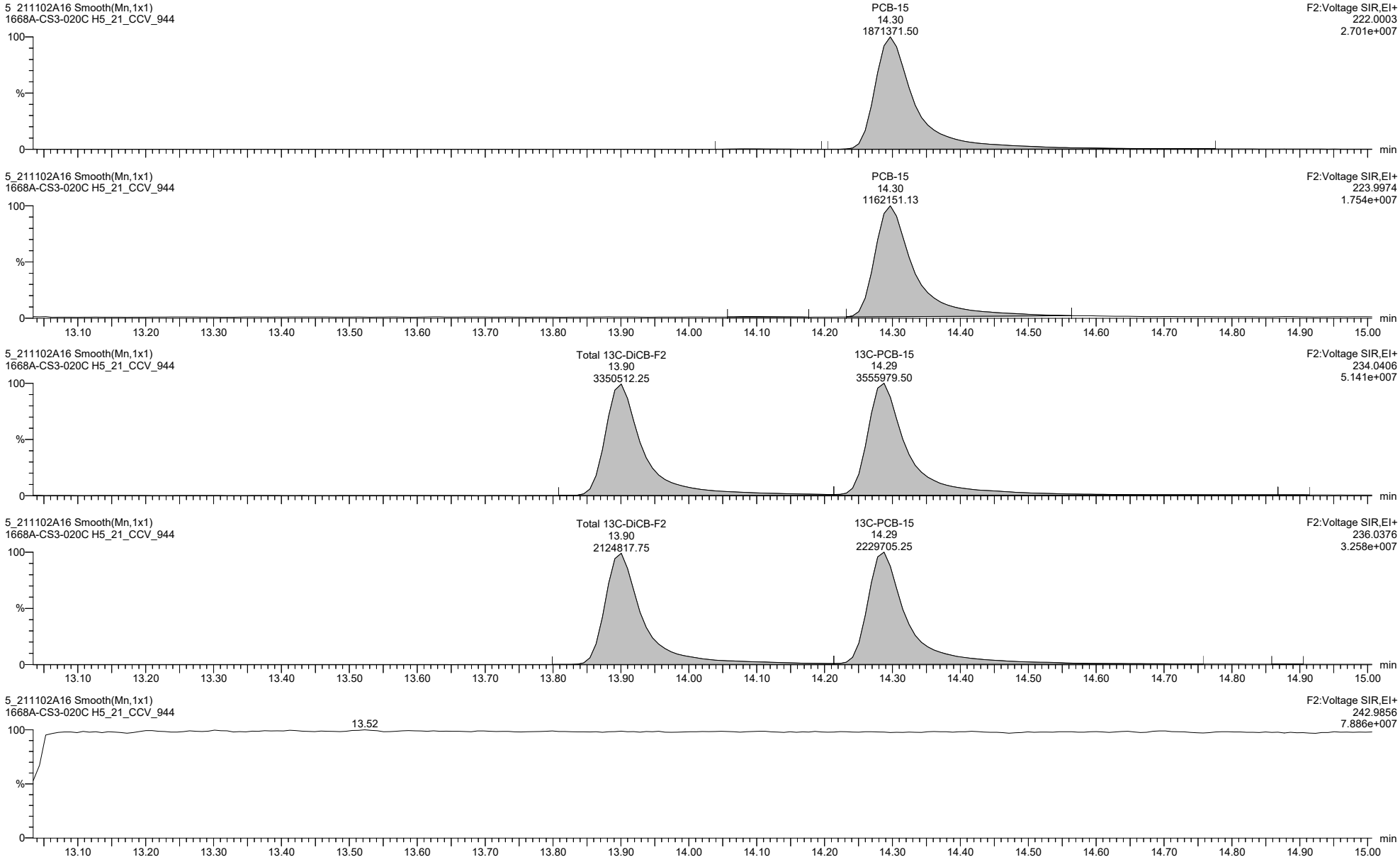

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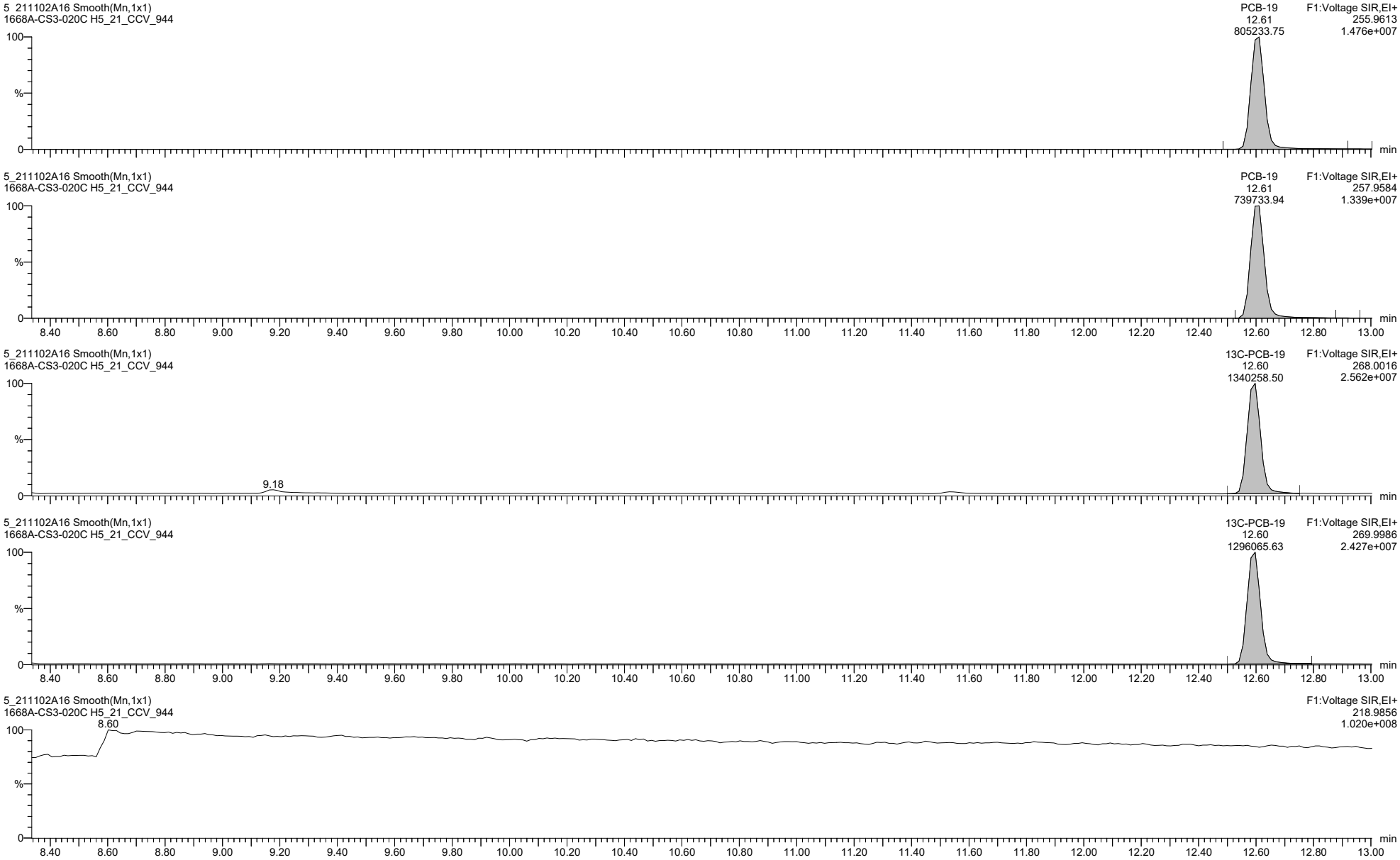

Quantify Sample Template Report **MassLynx V4.2 SCN1012**

Dataset: I:\Organics Instrument\HIGHRES GCMS Completed Results Files\HR-5\5-211102A-QC1.qld

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Printed: Monday, November 08, 2021 16:16:24 Eastern Standard Time

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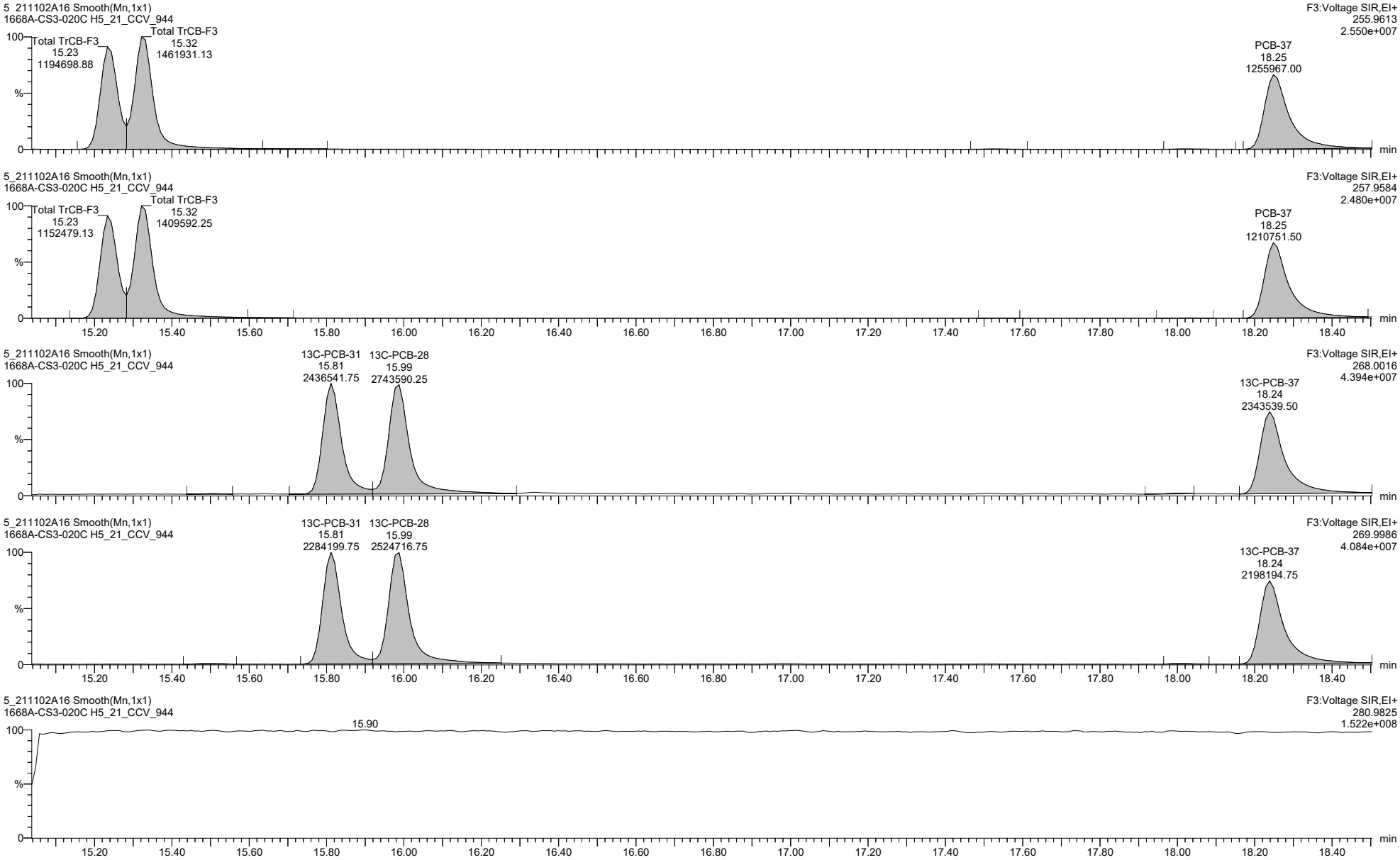

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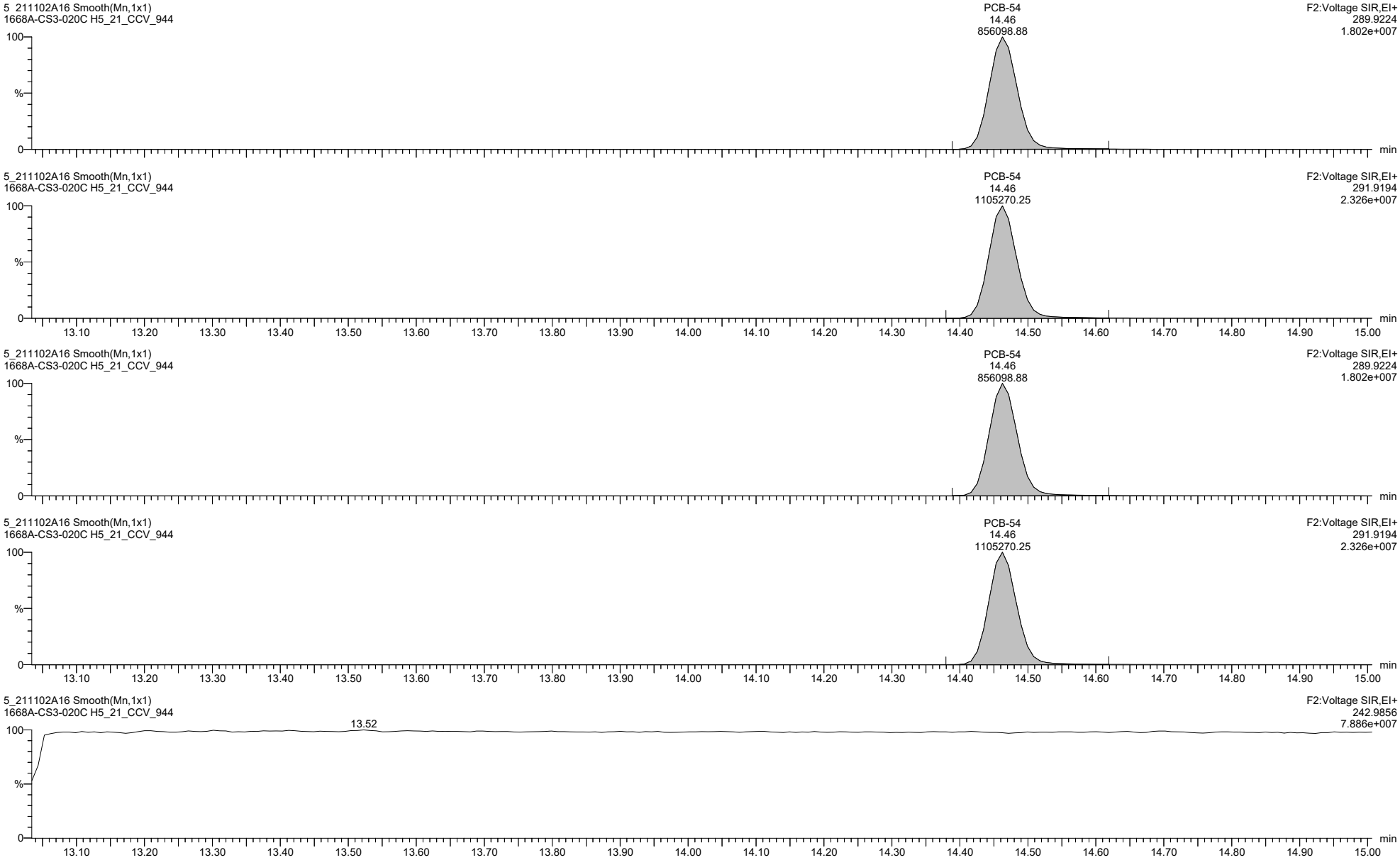

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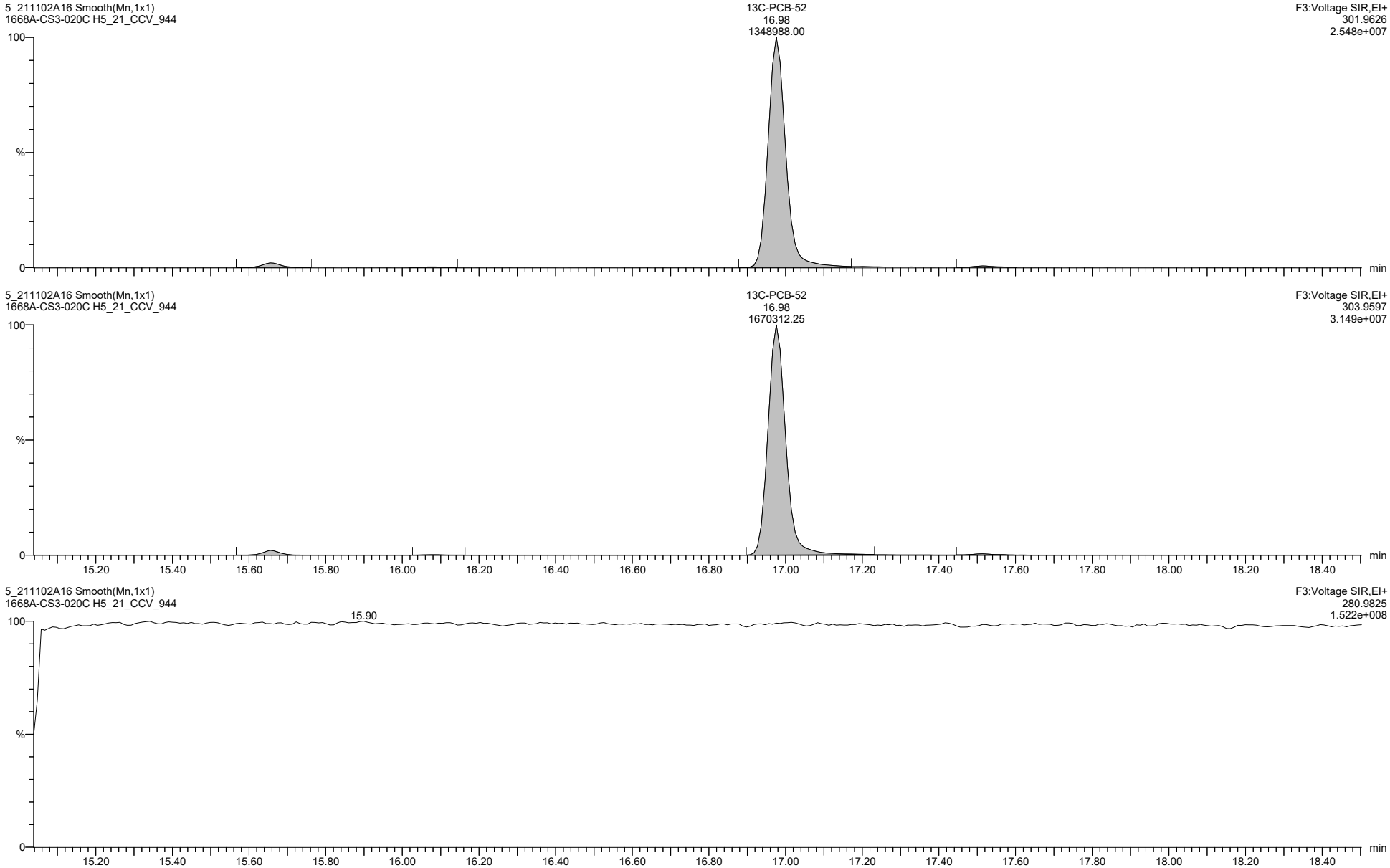

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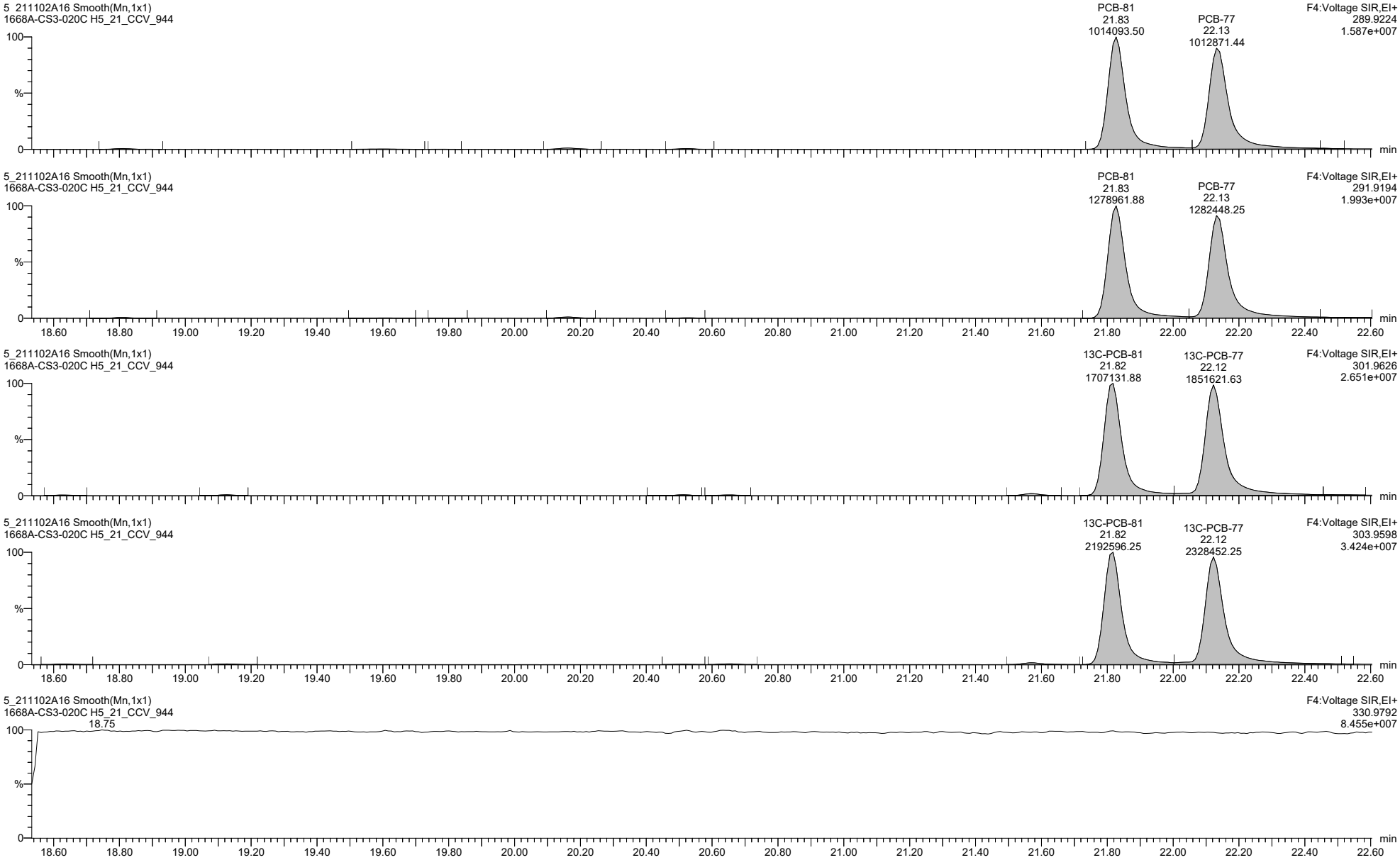

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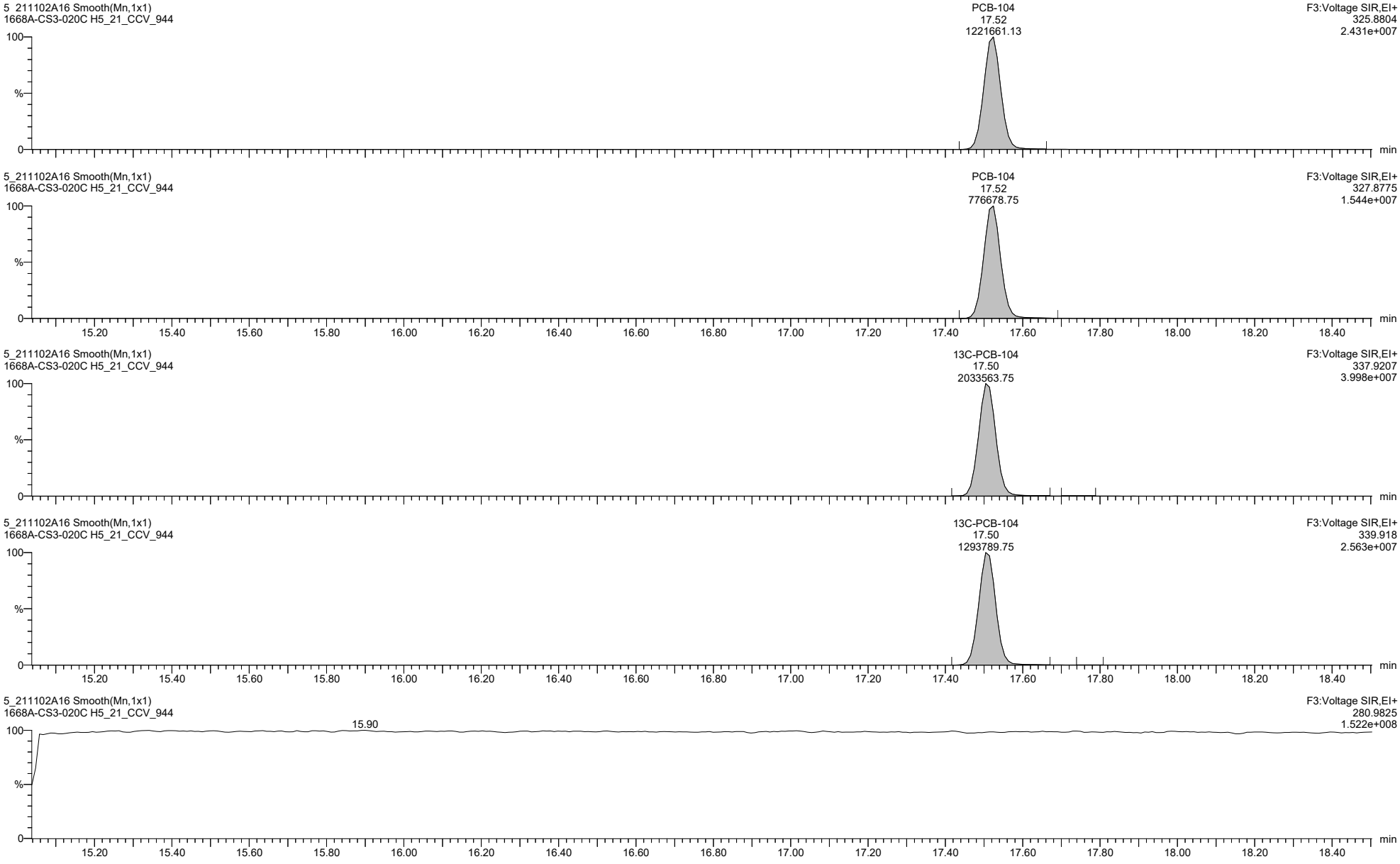

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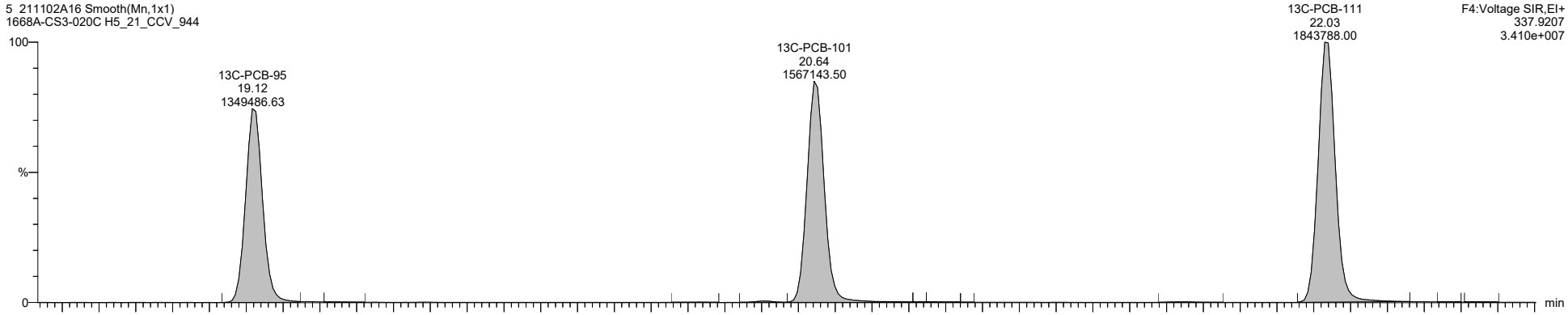

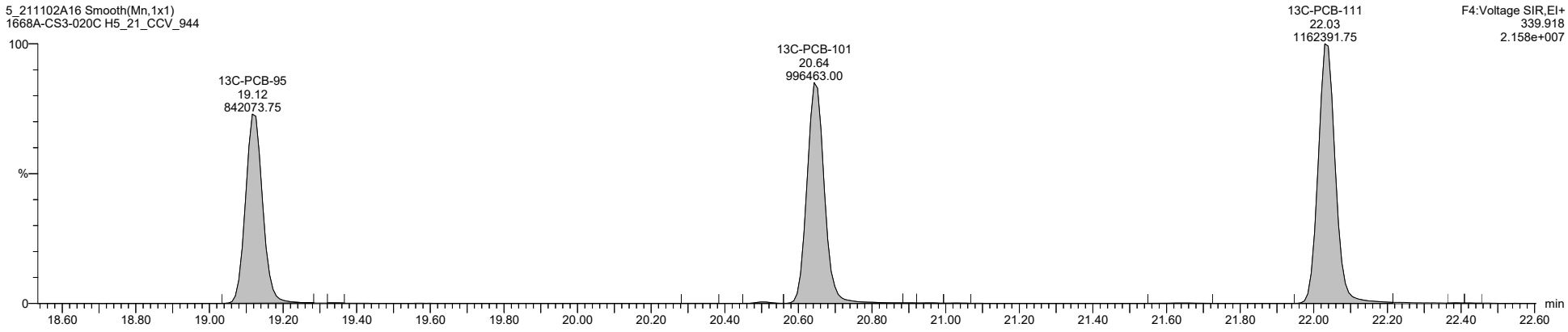

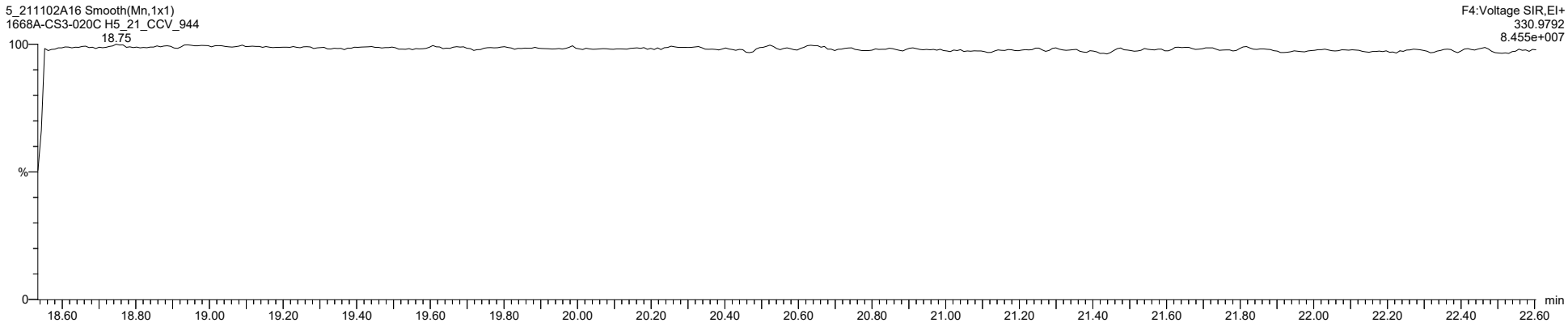

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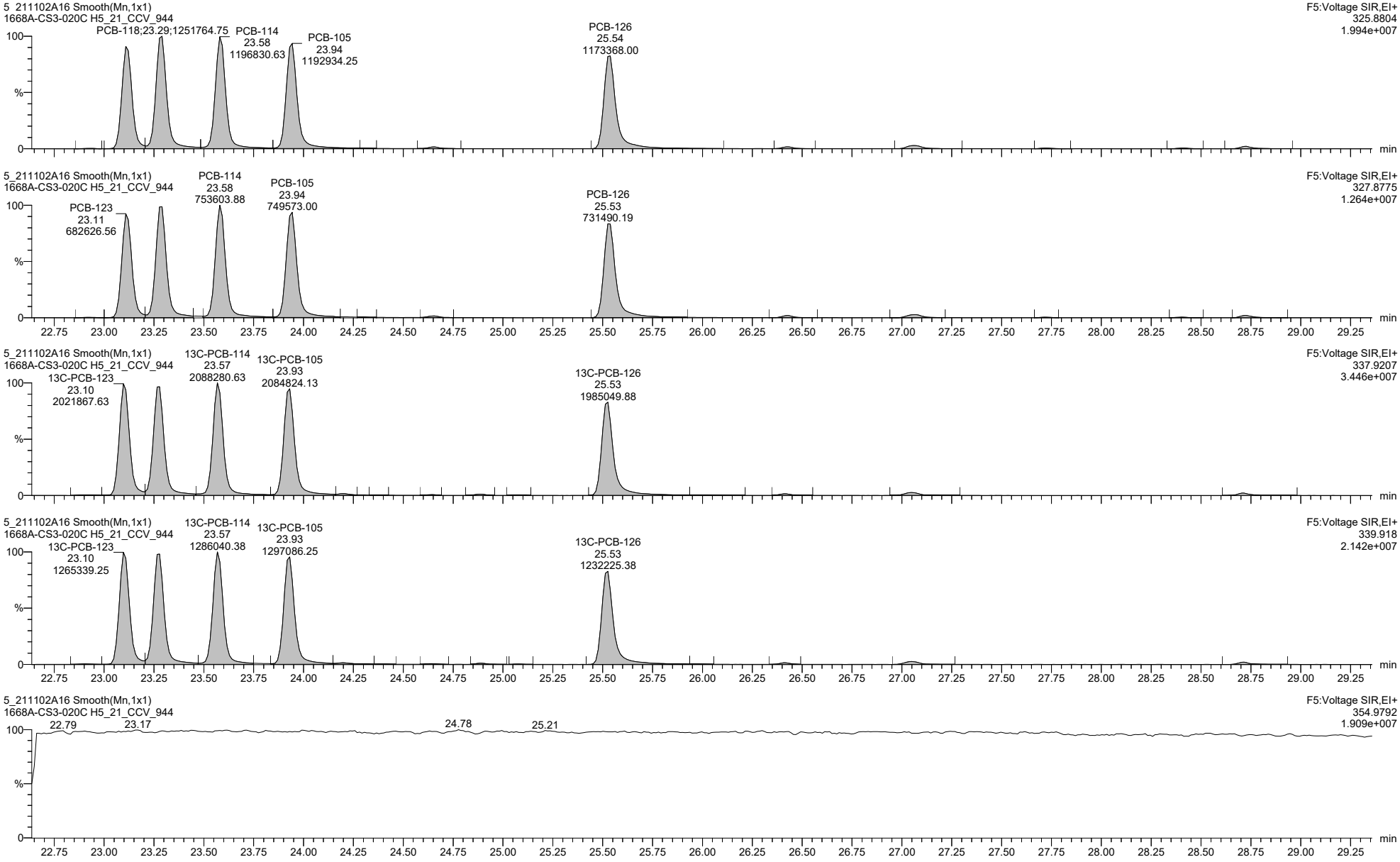

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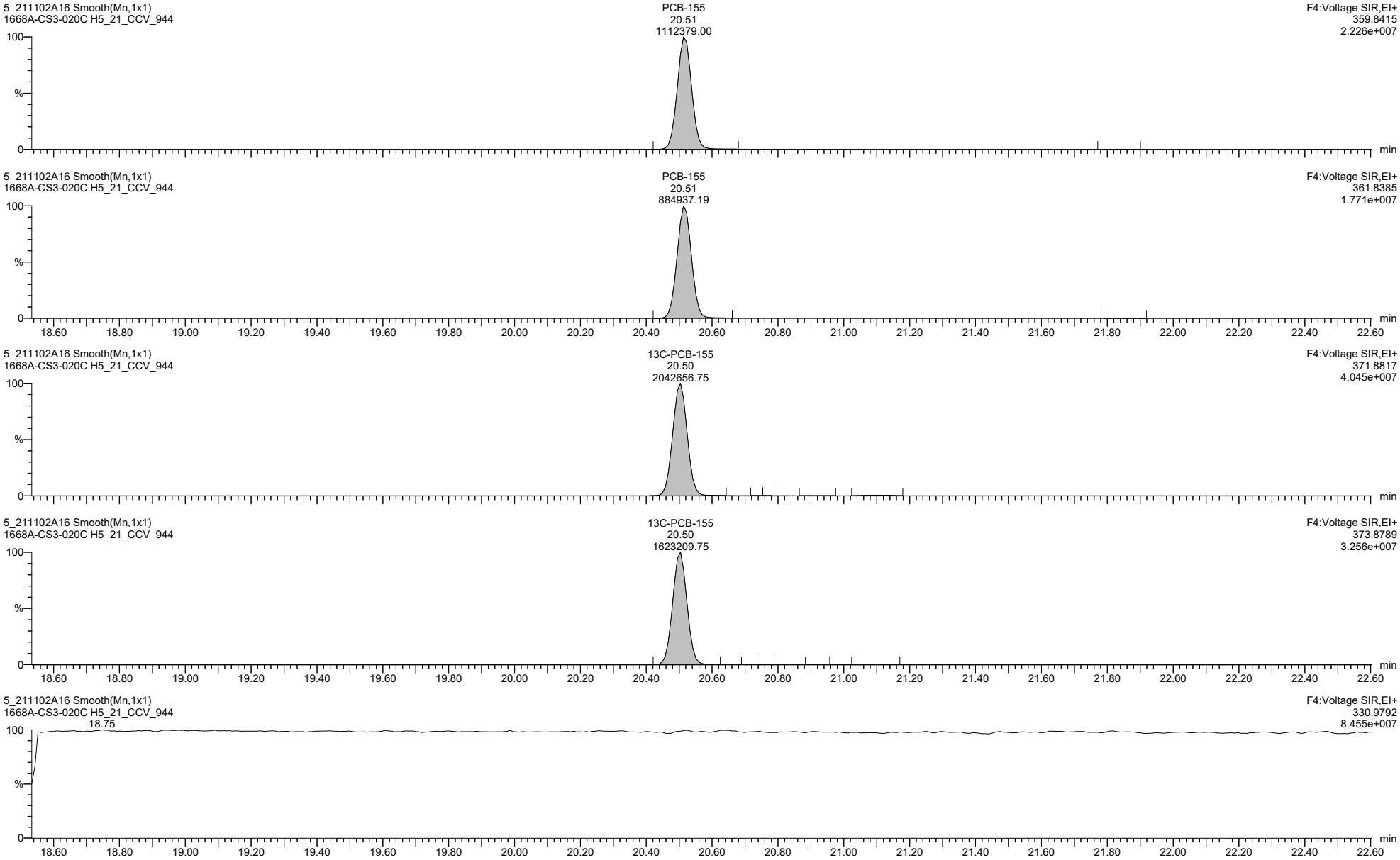

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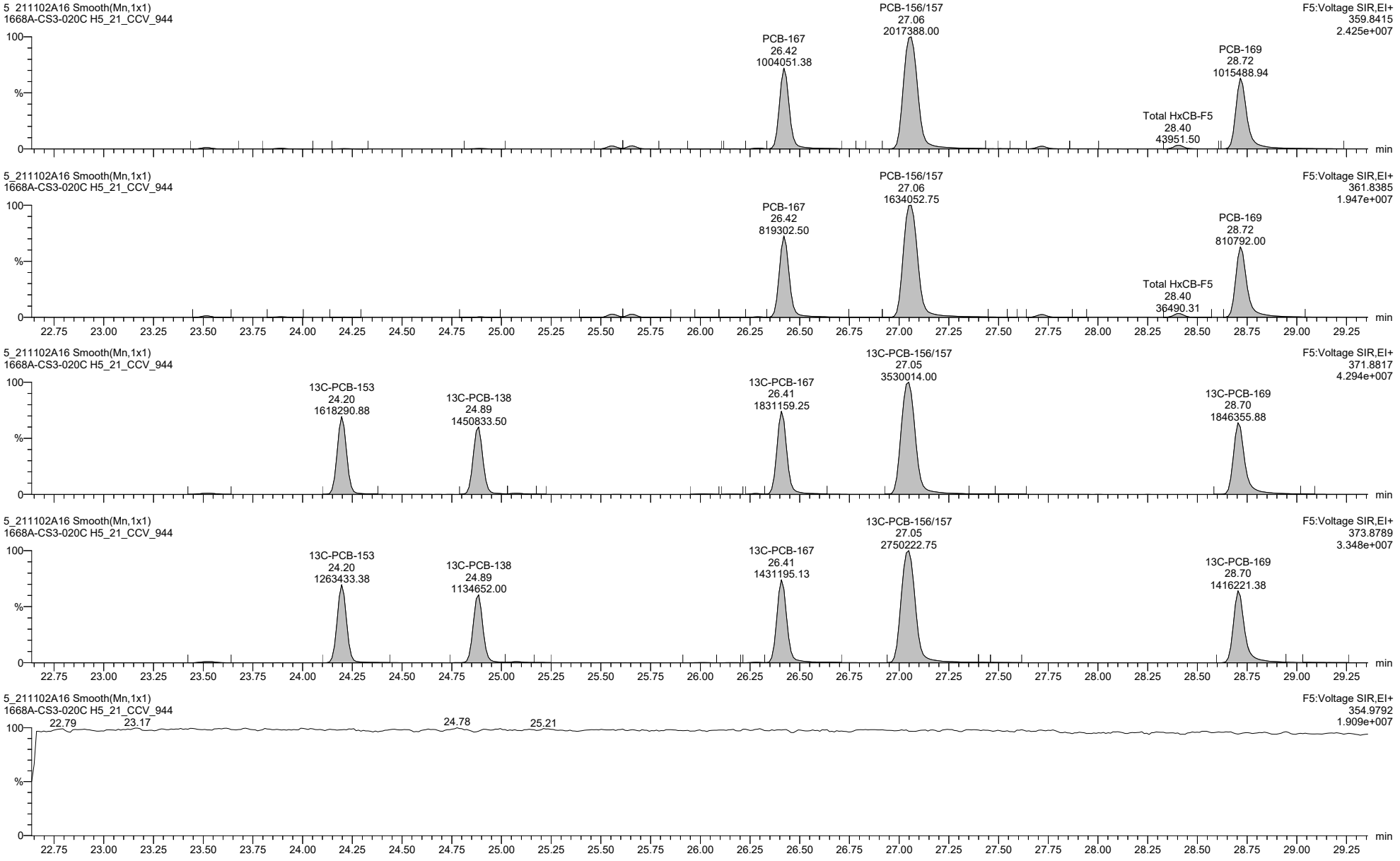

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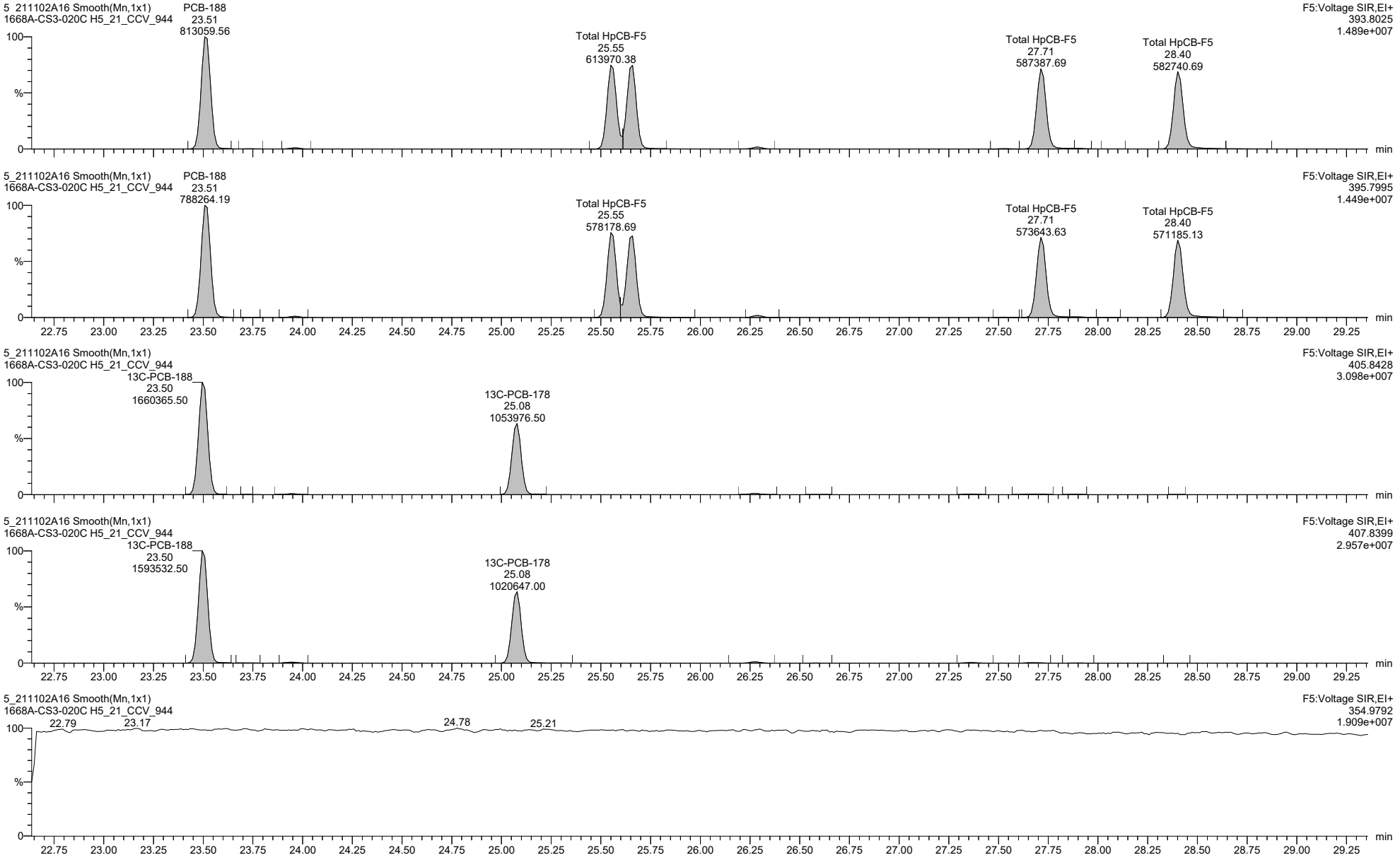

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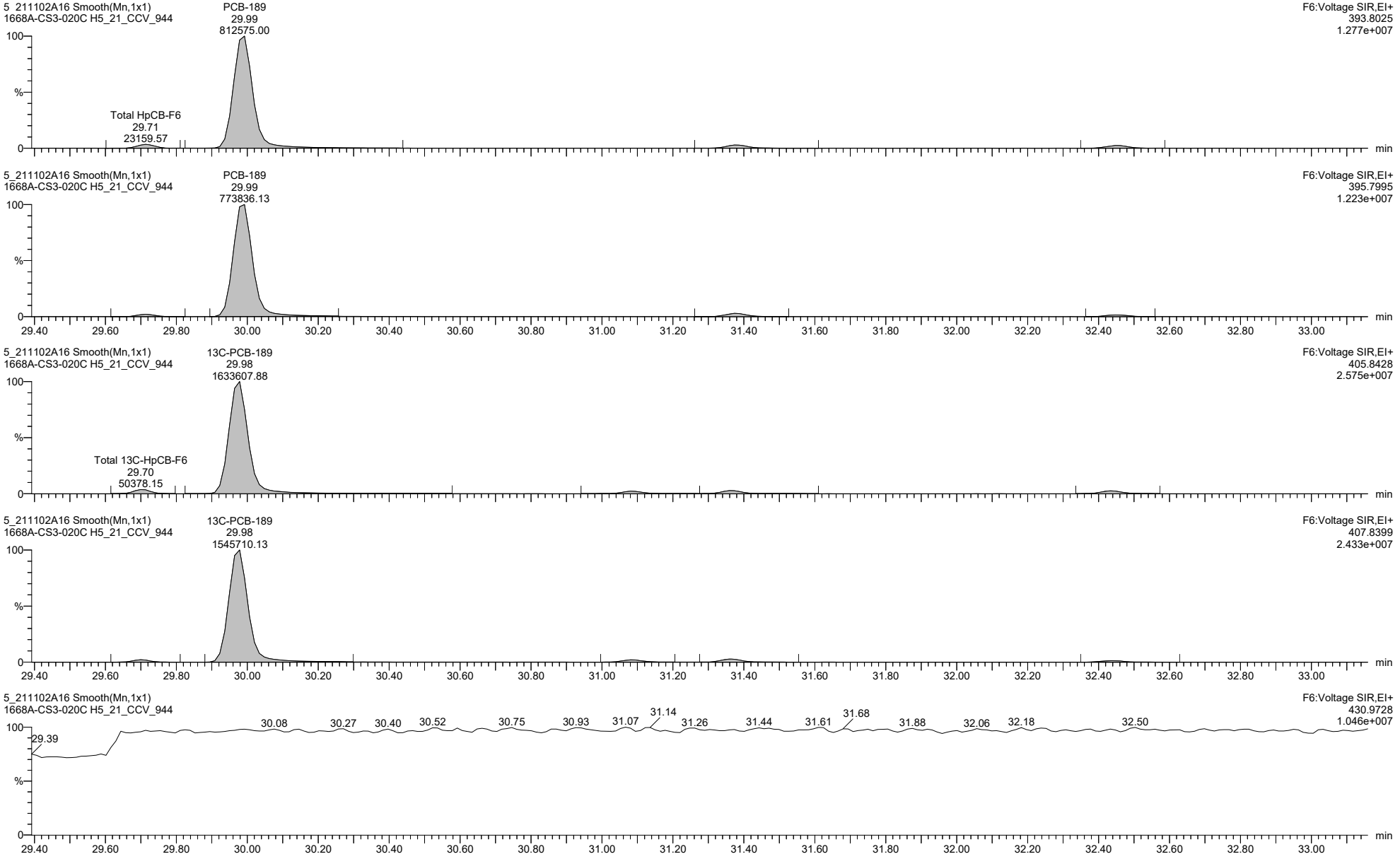

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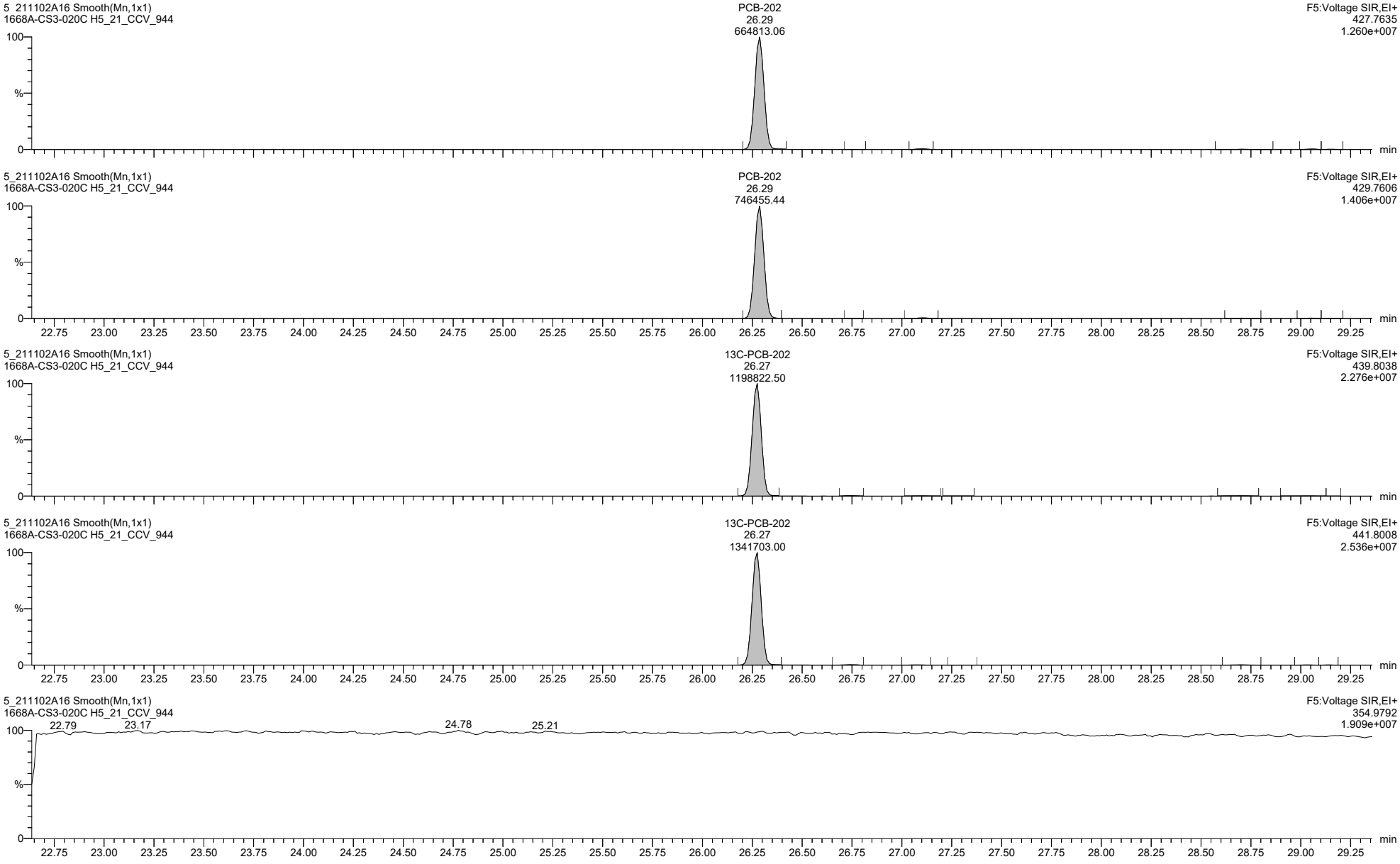

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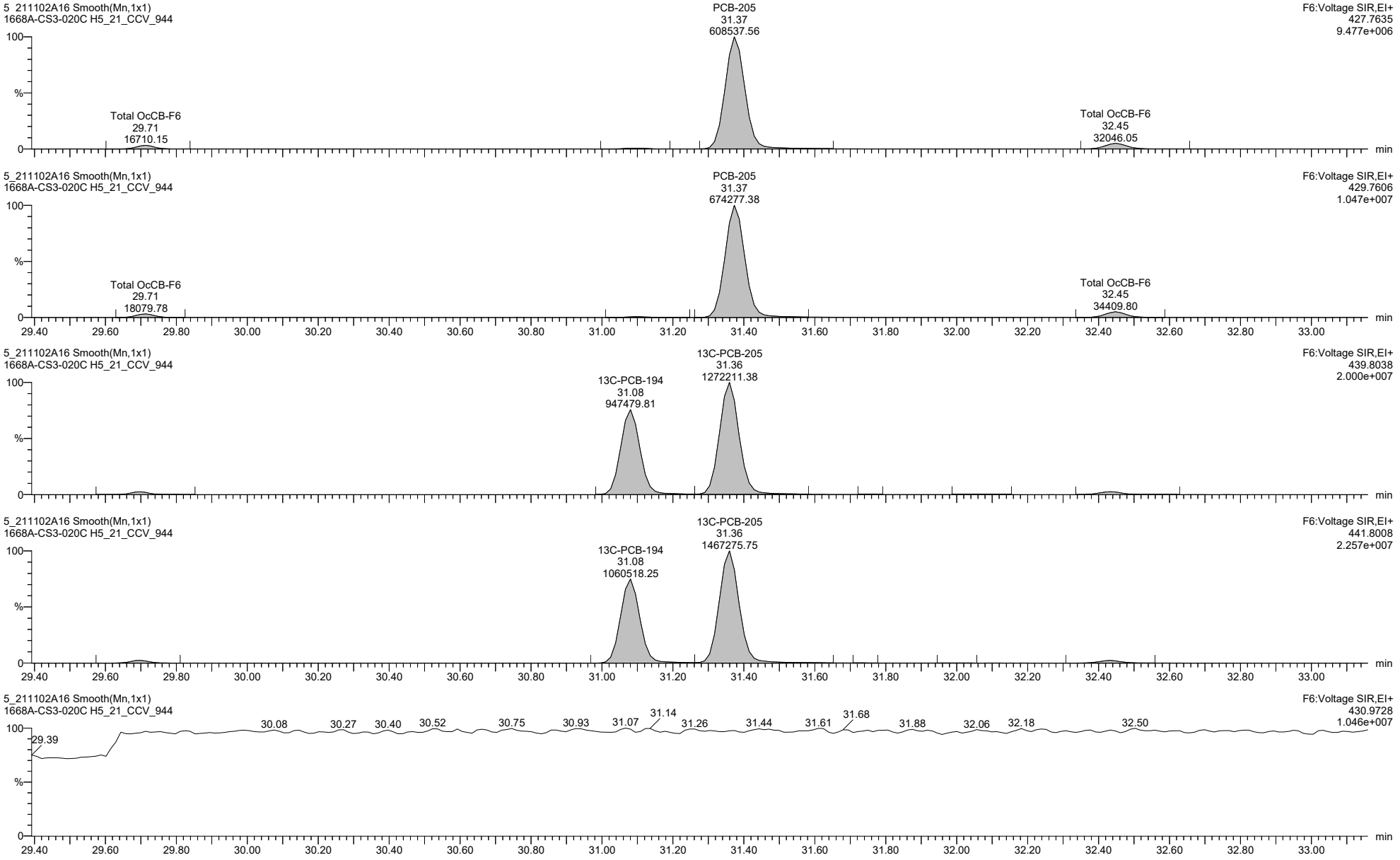

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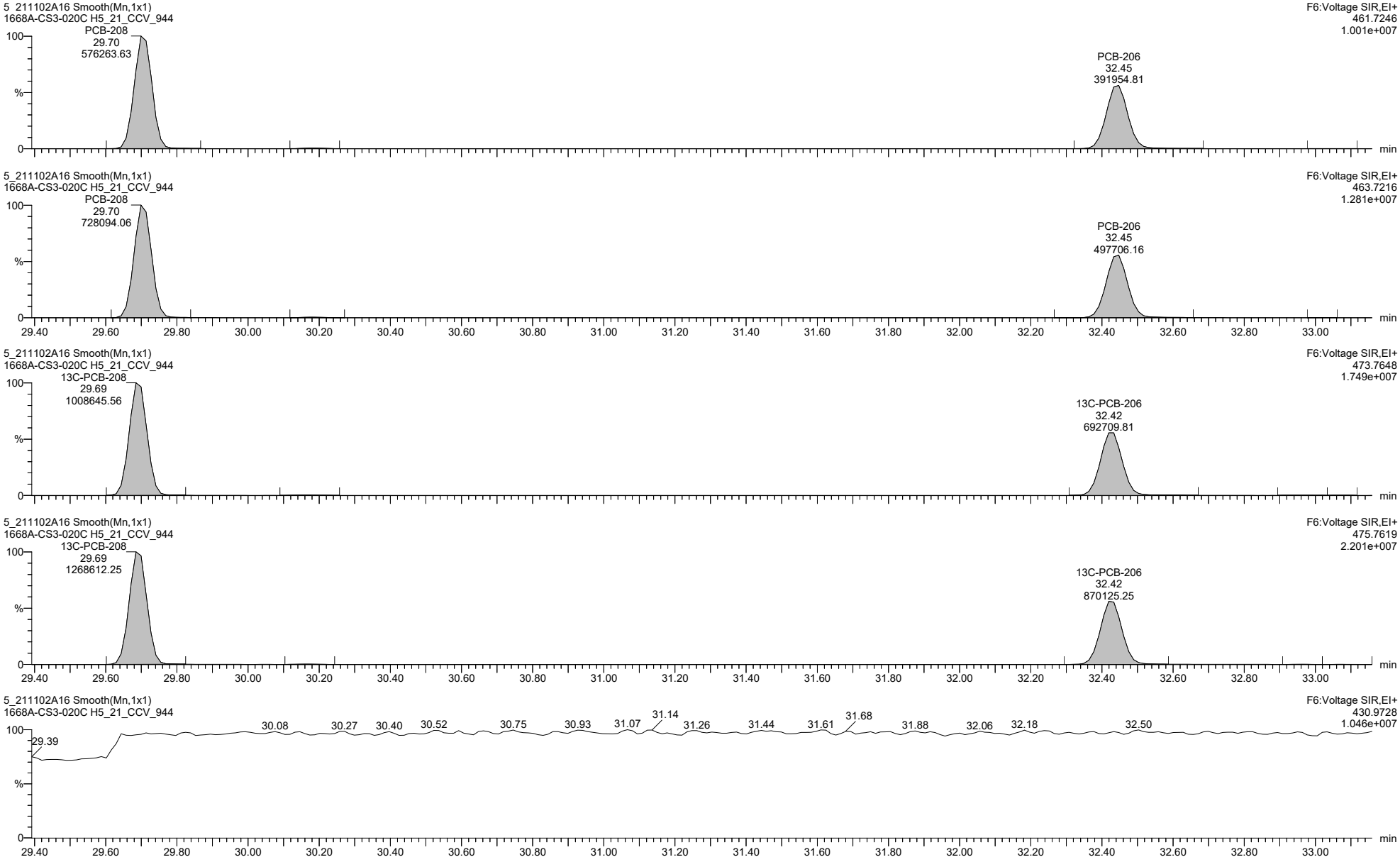

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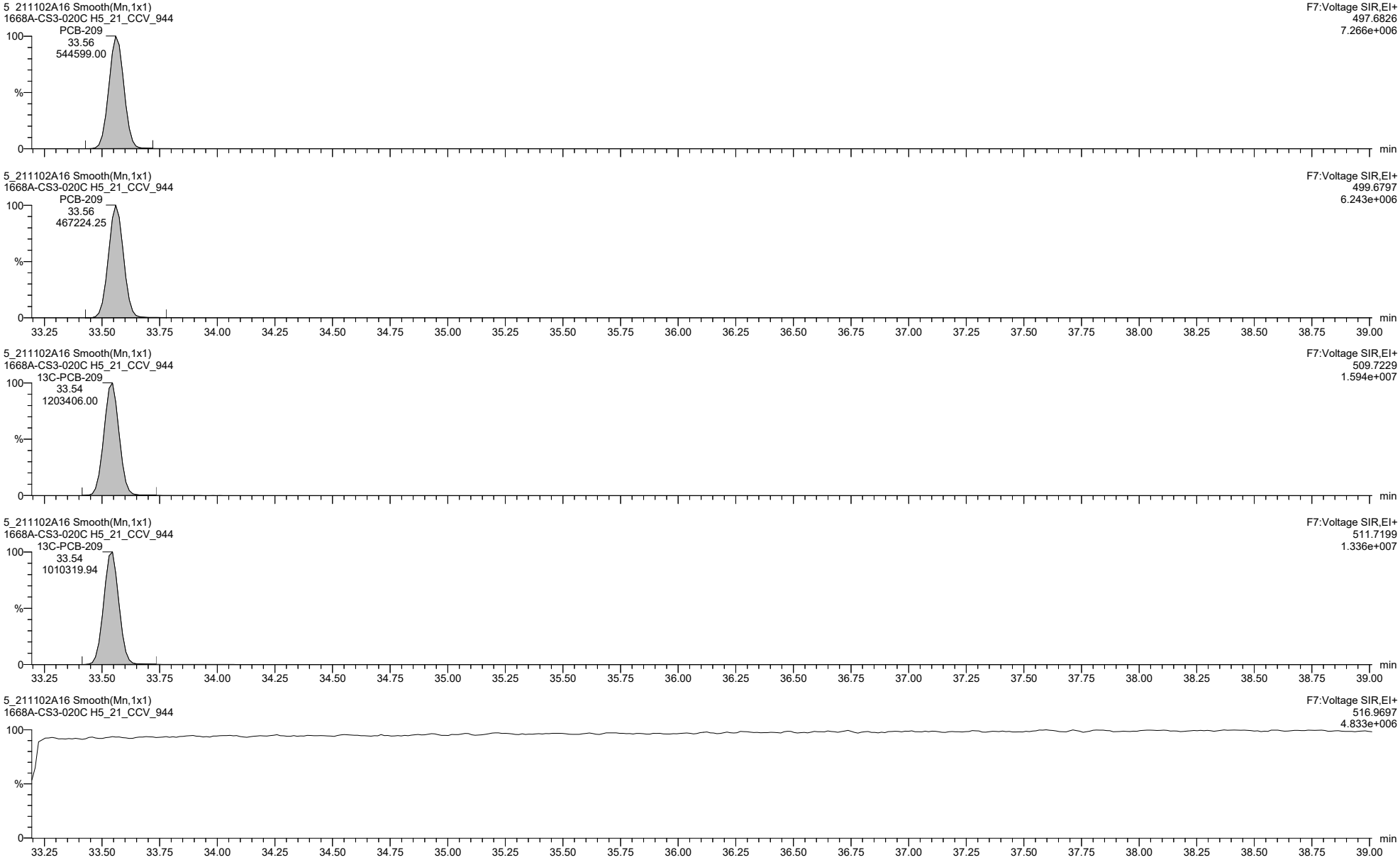

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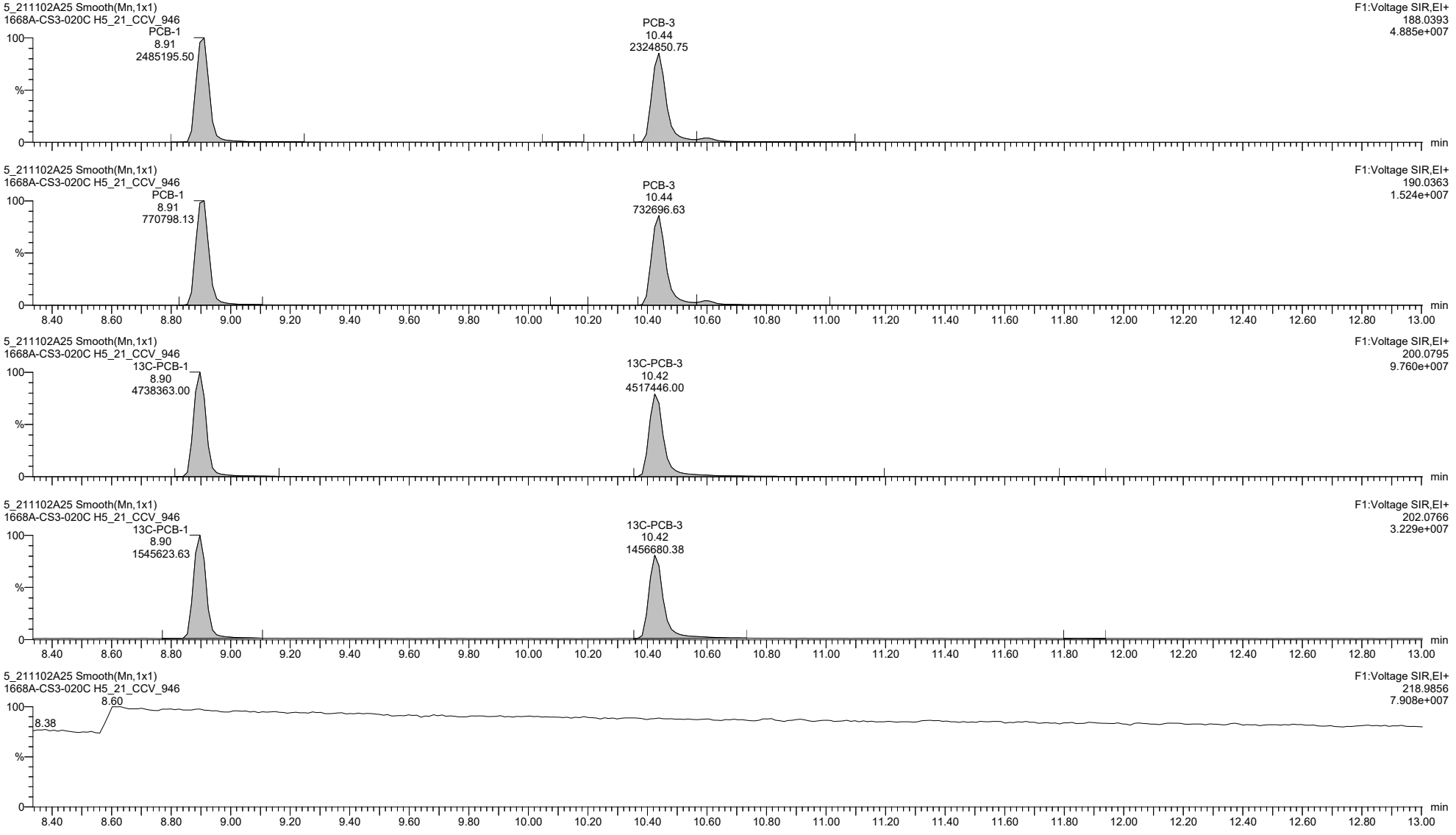

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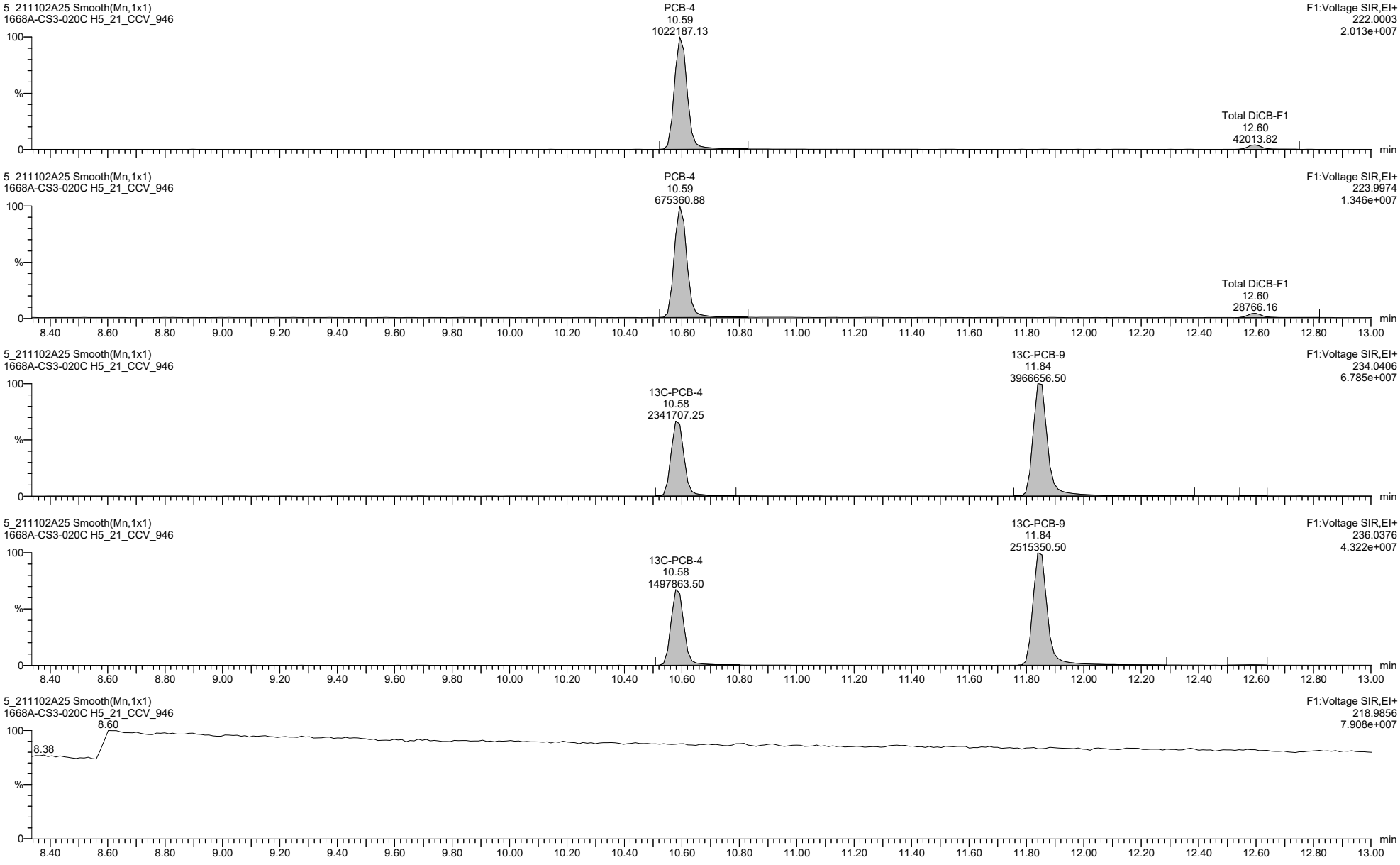

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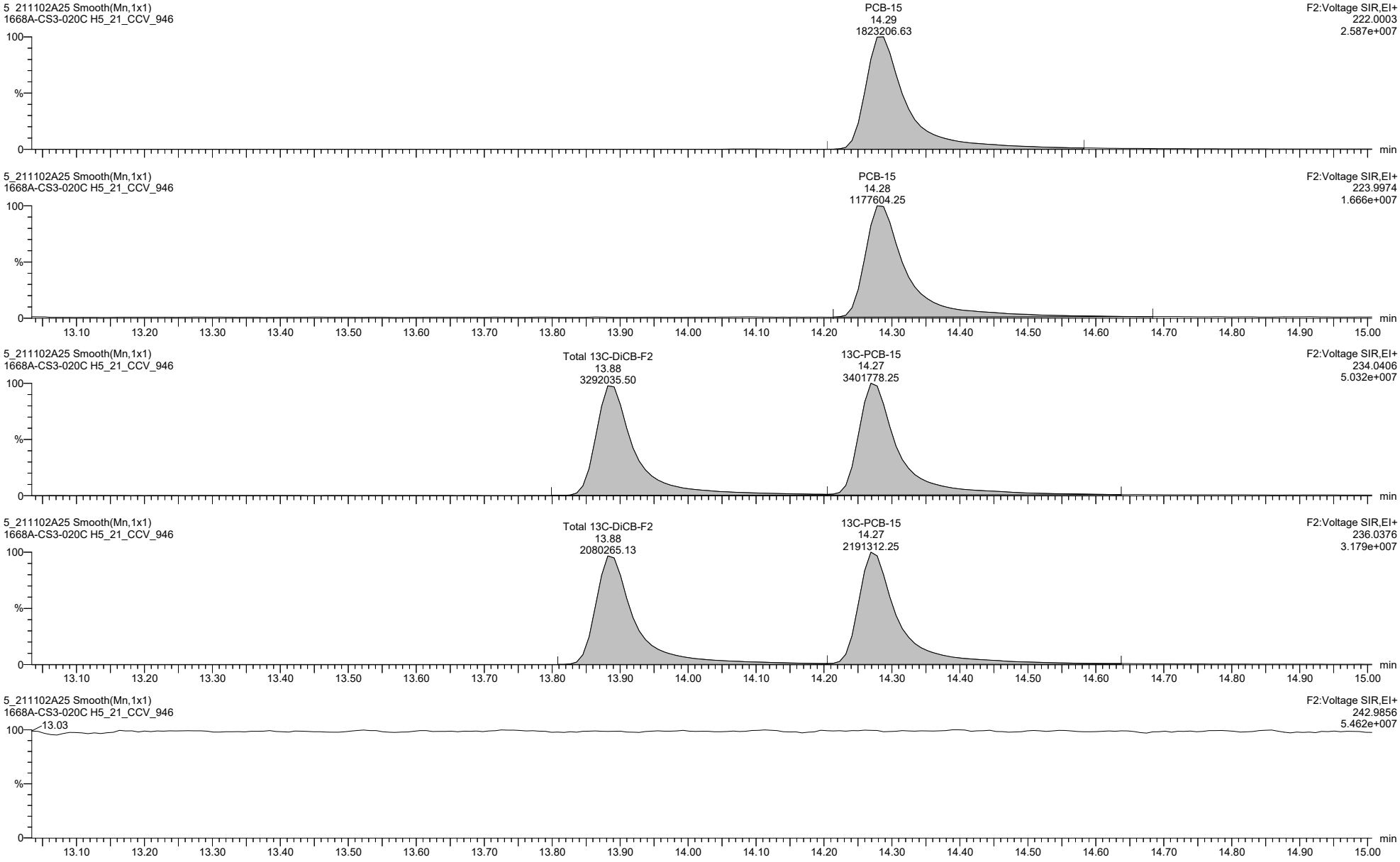

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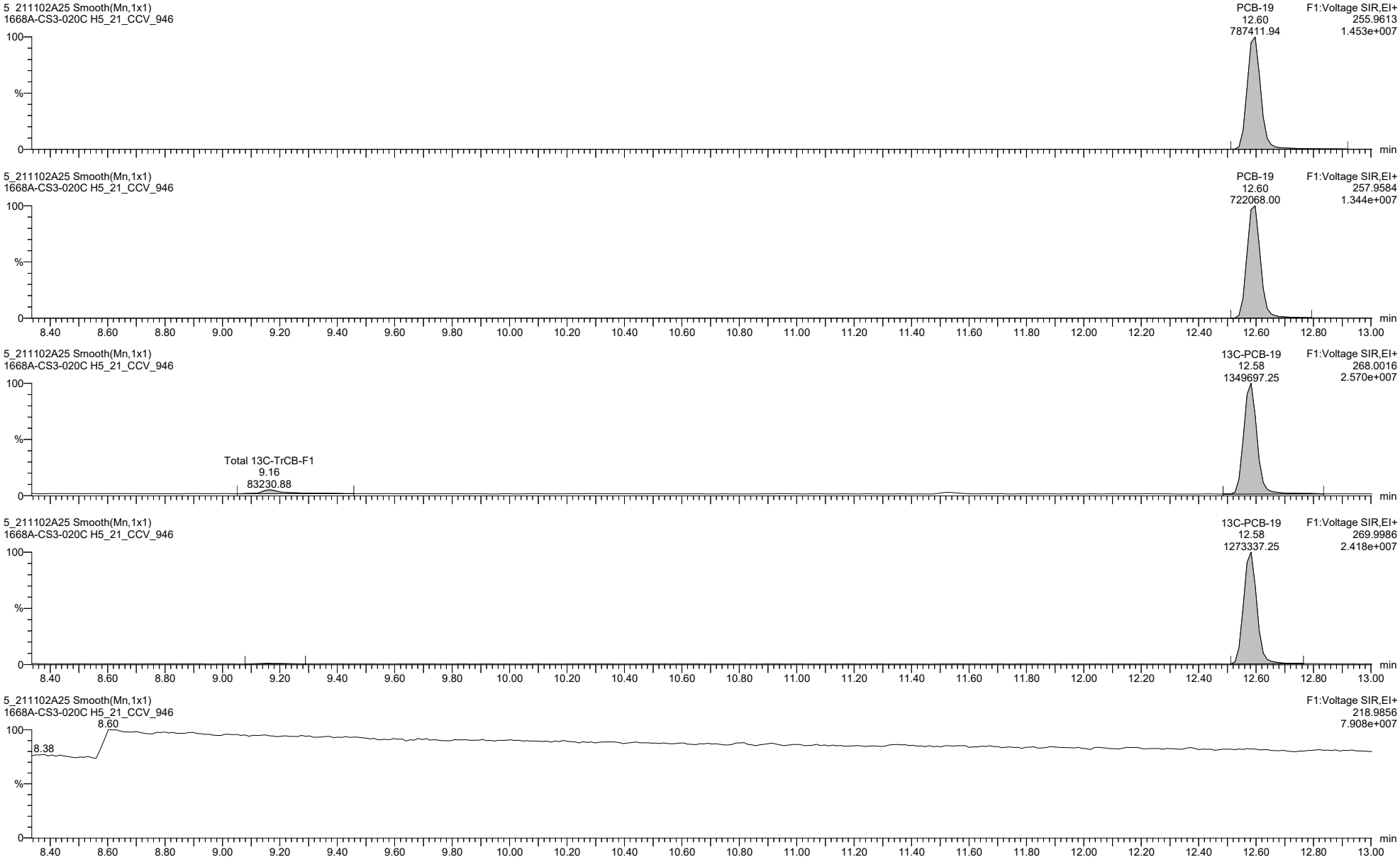

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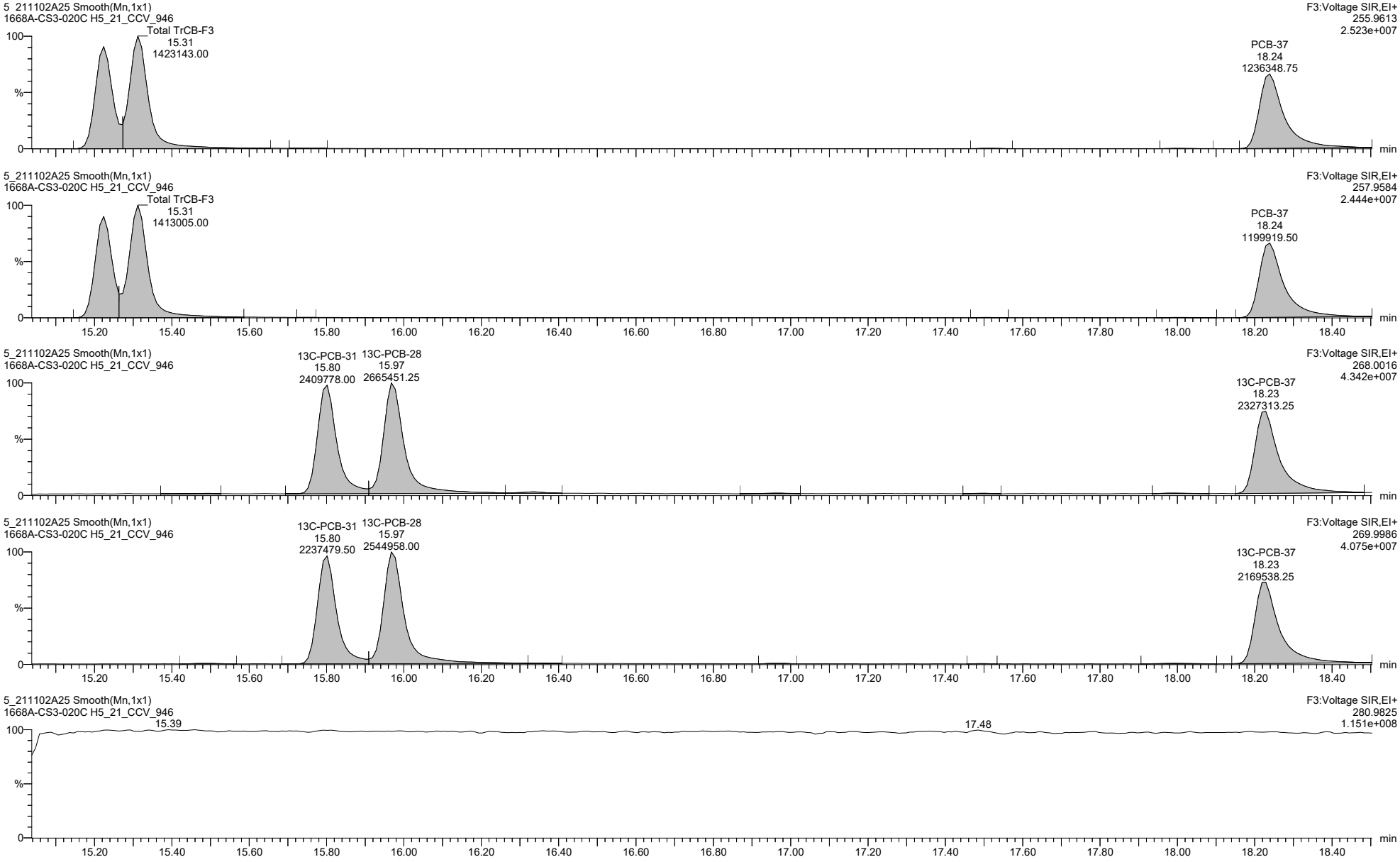

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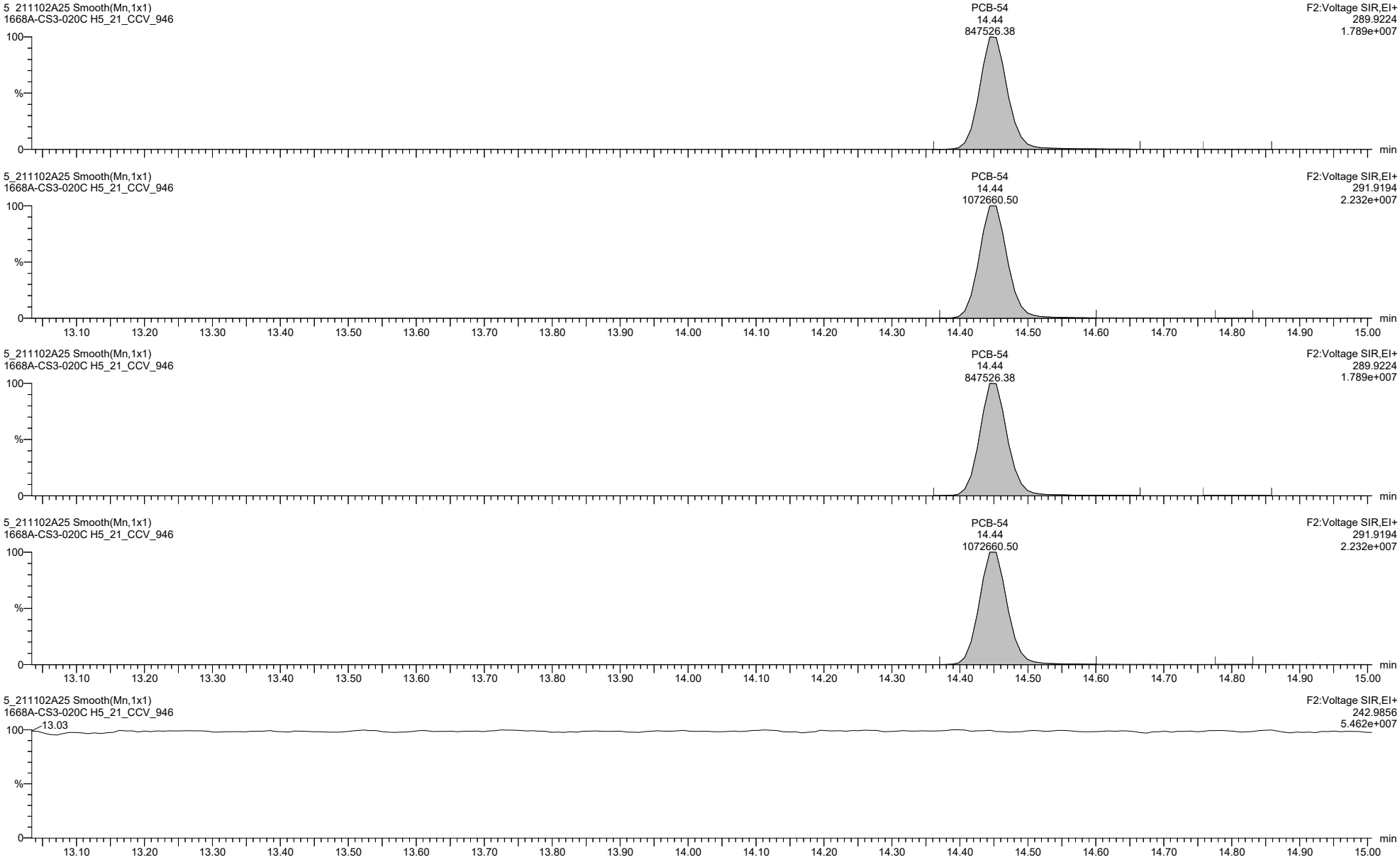

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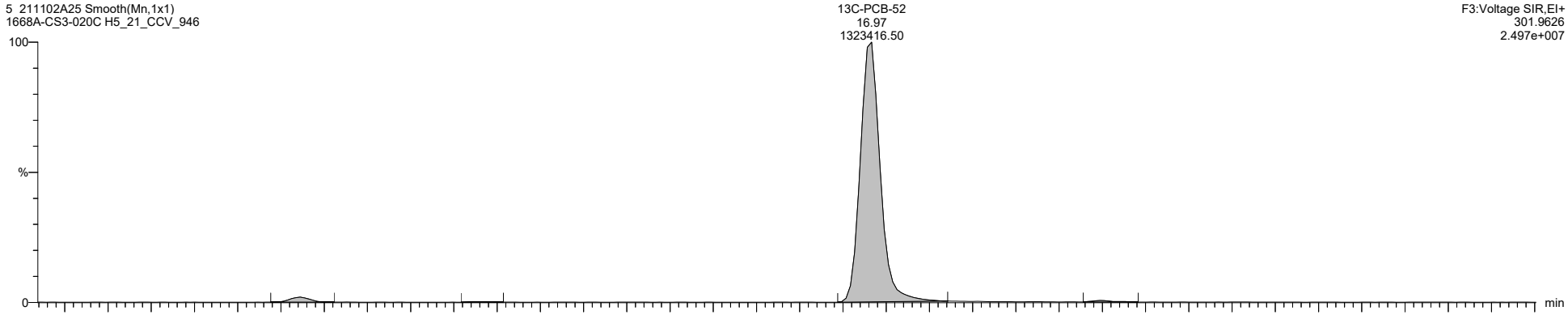

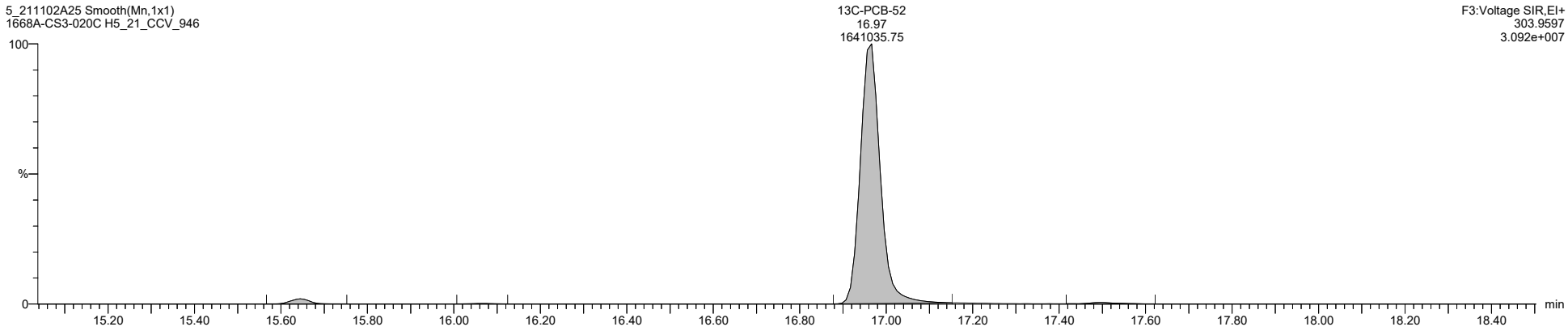

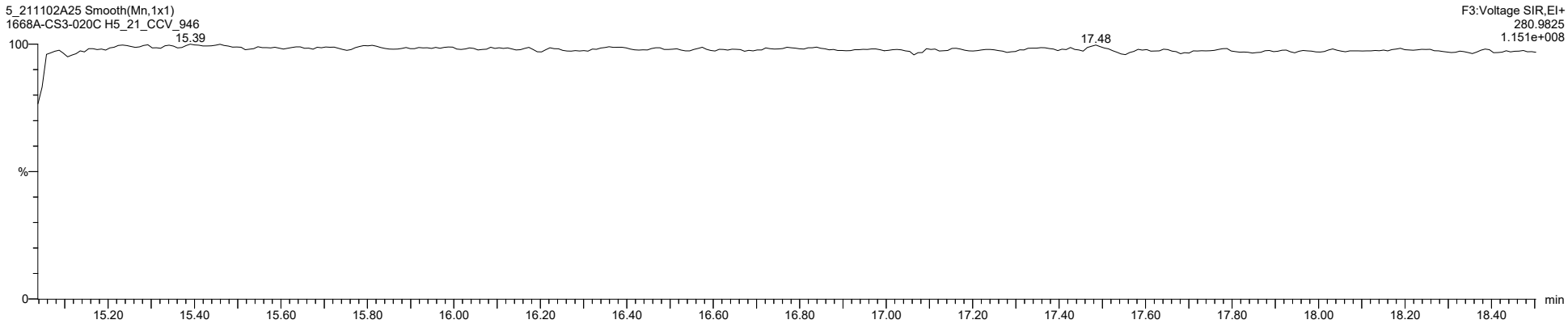

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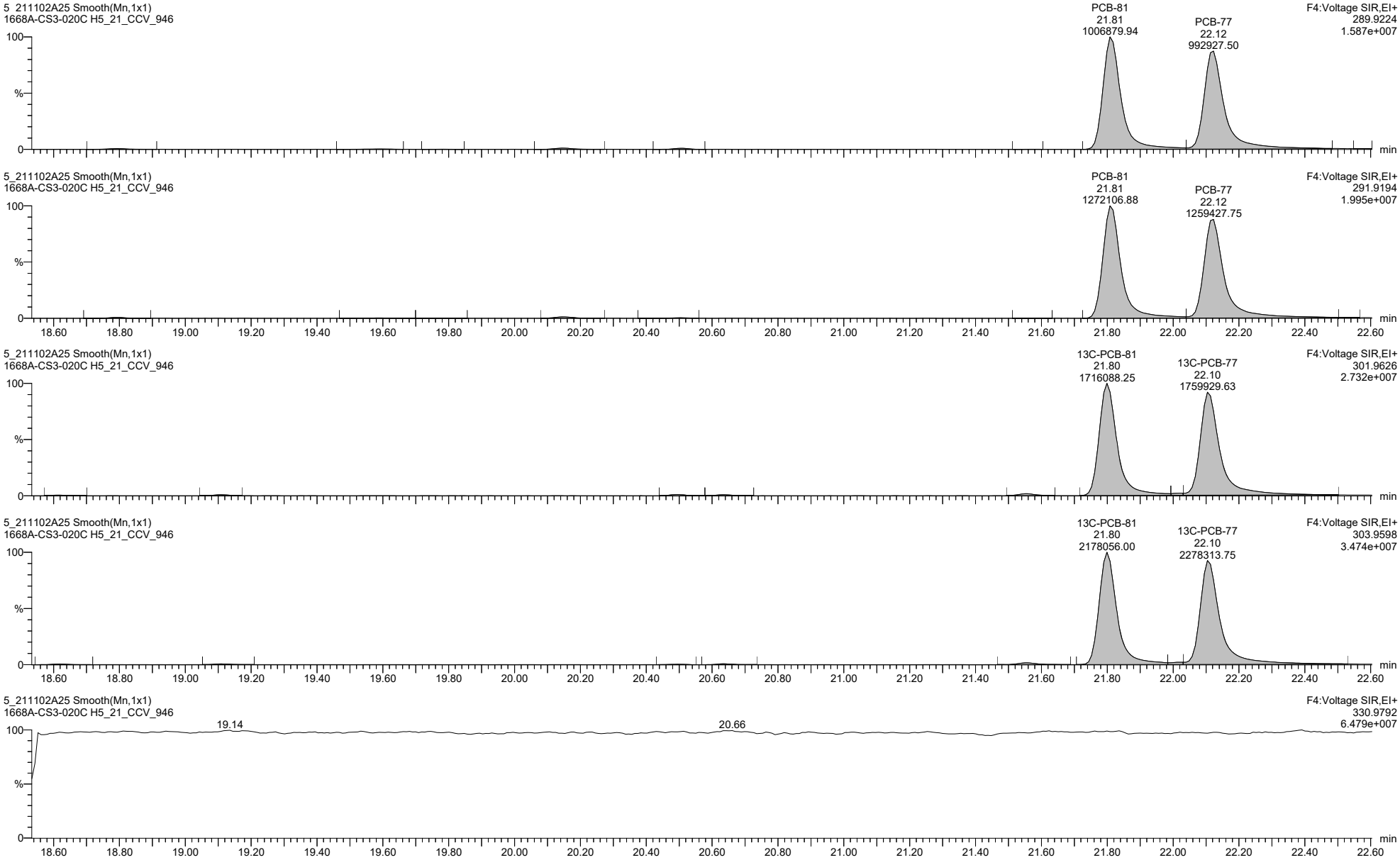

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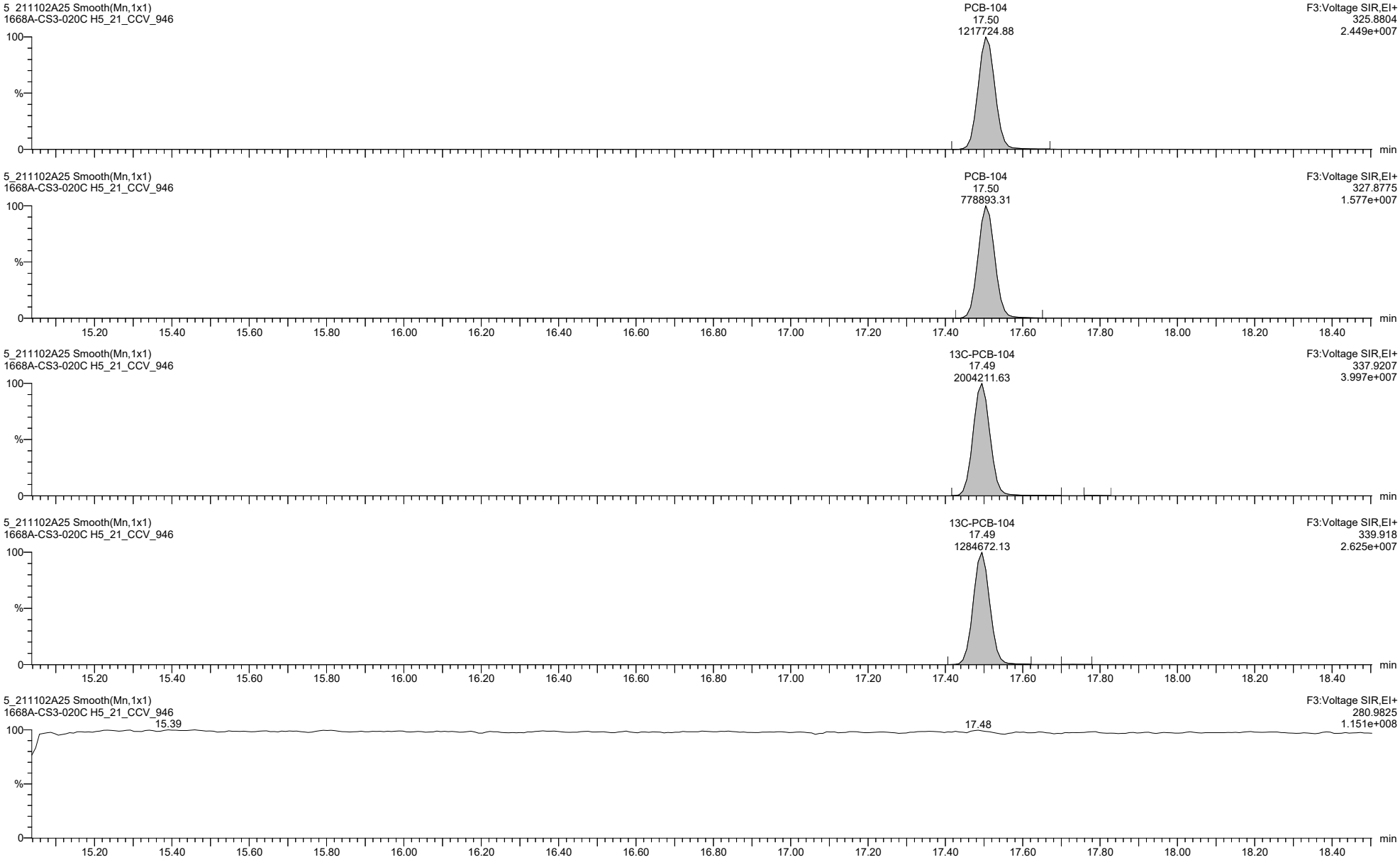

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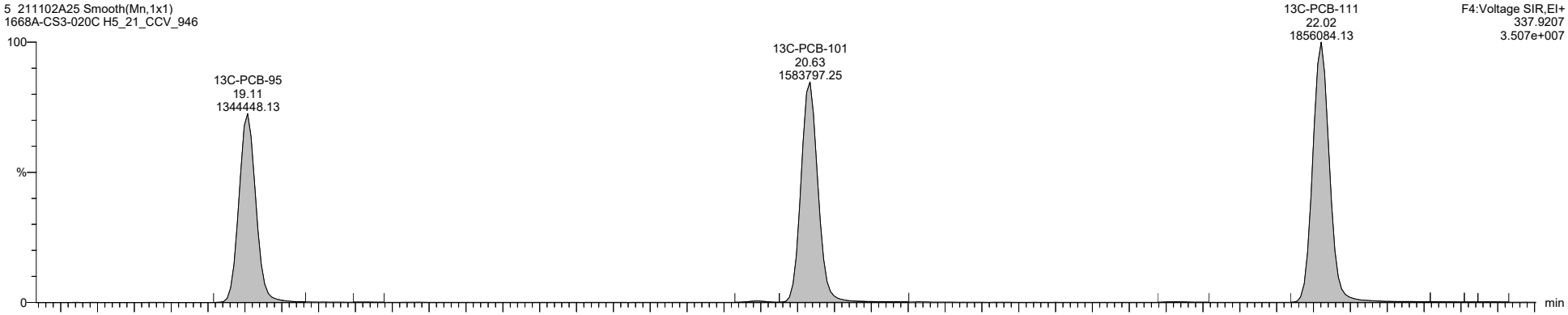

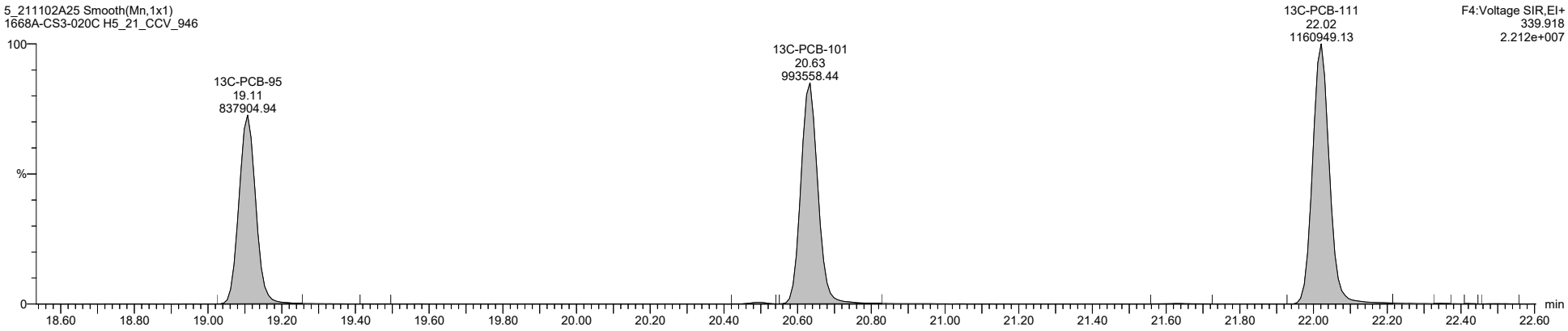

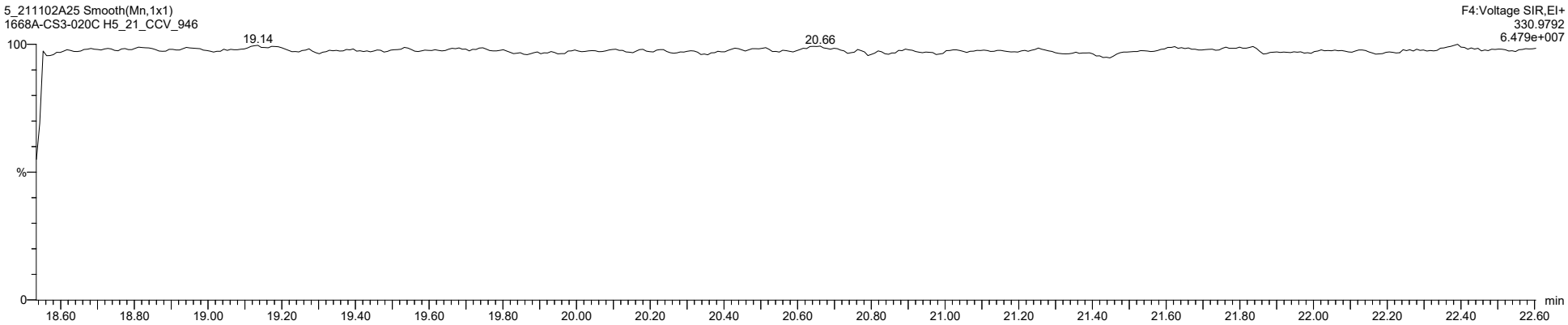

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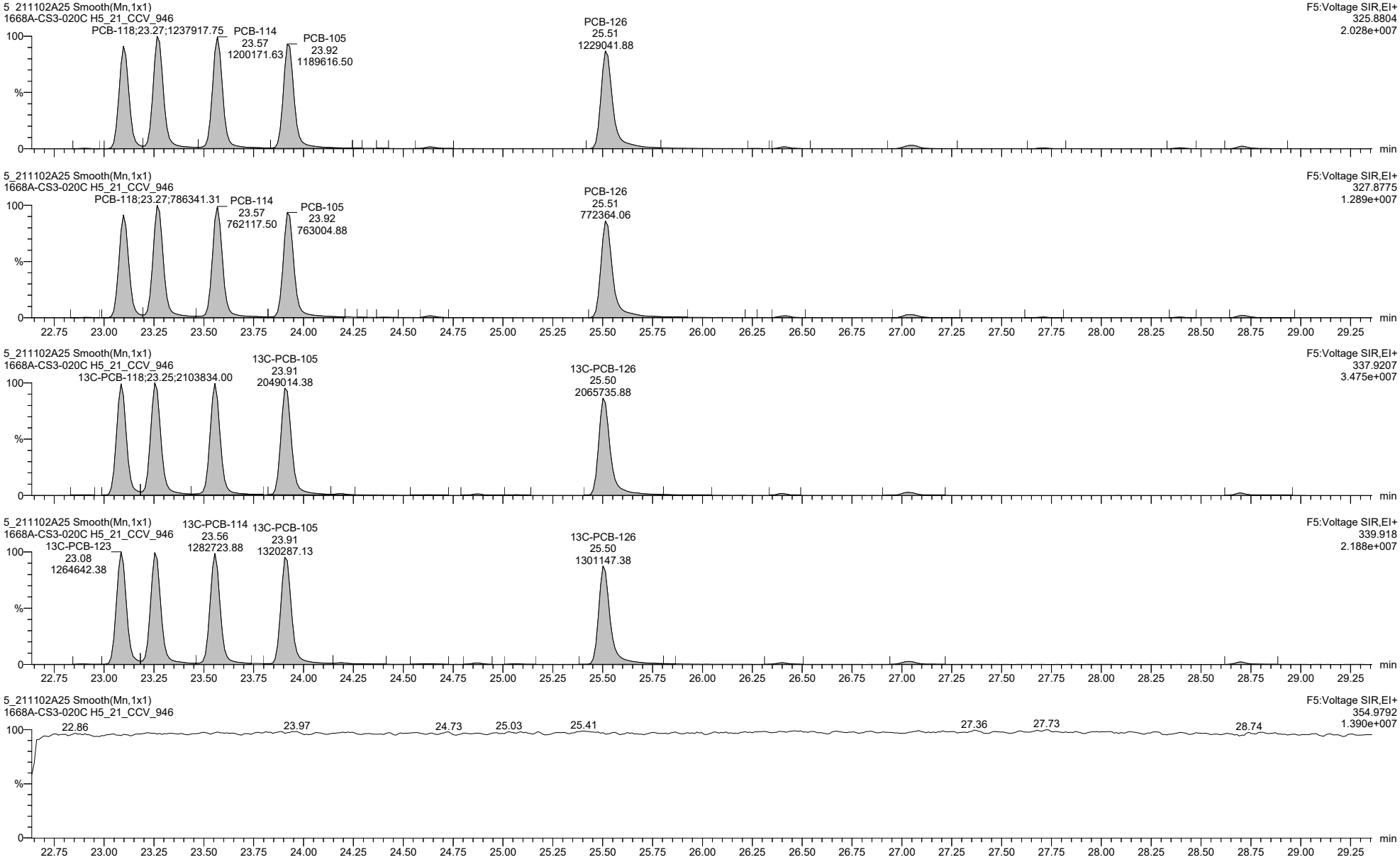

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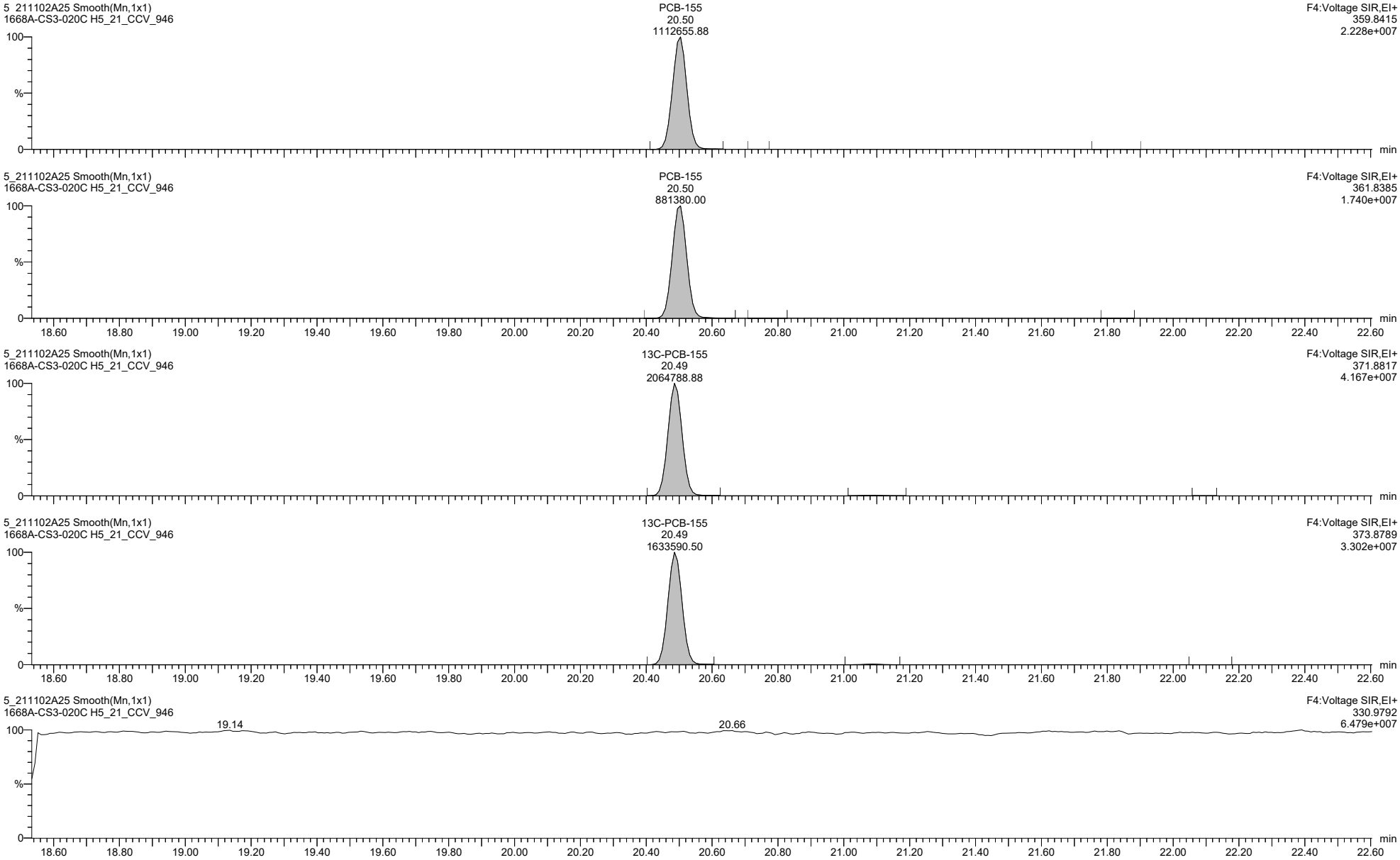

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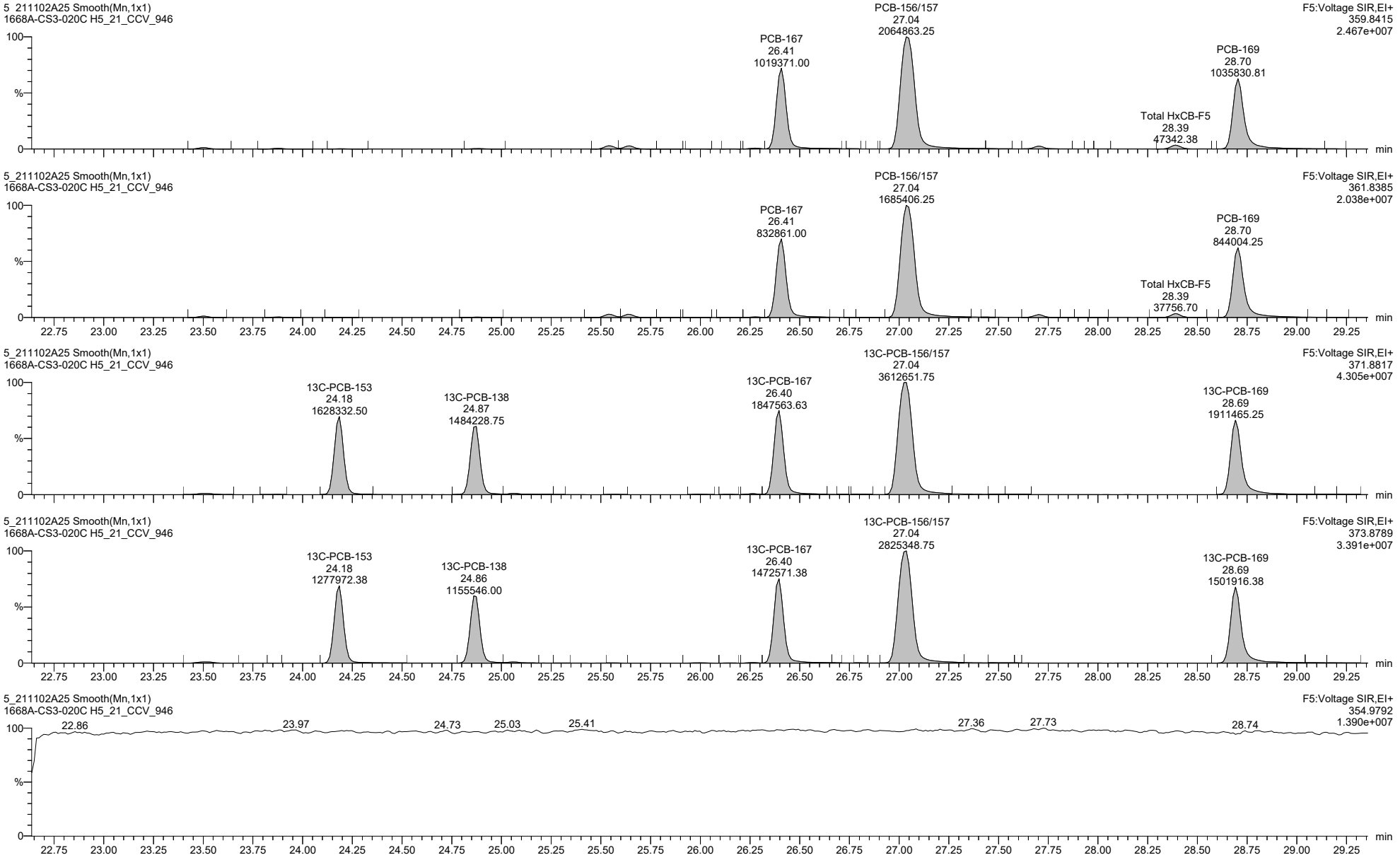

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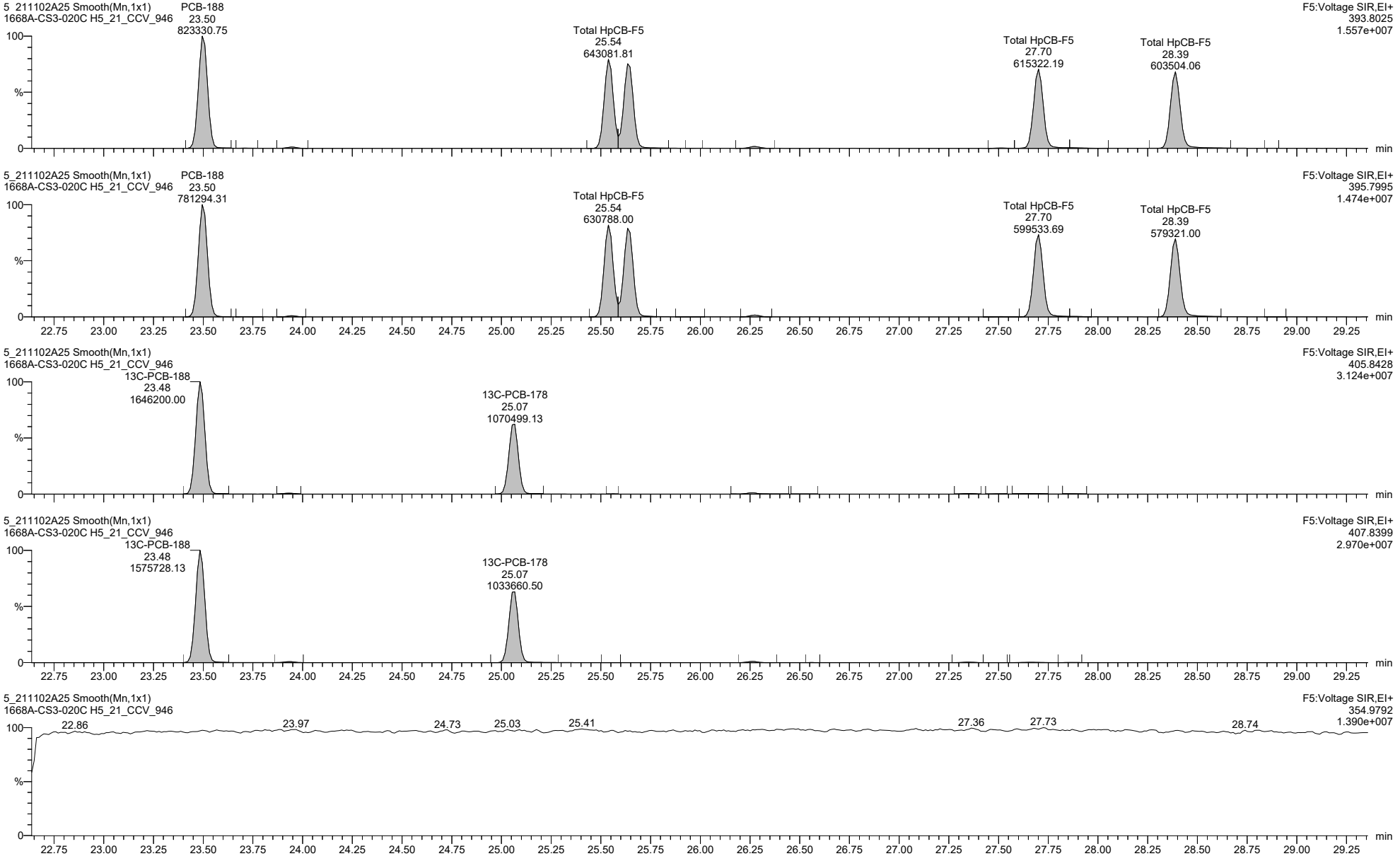

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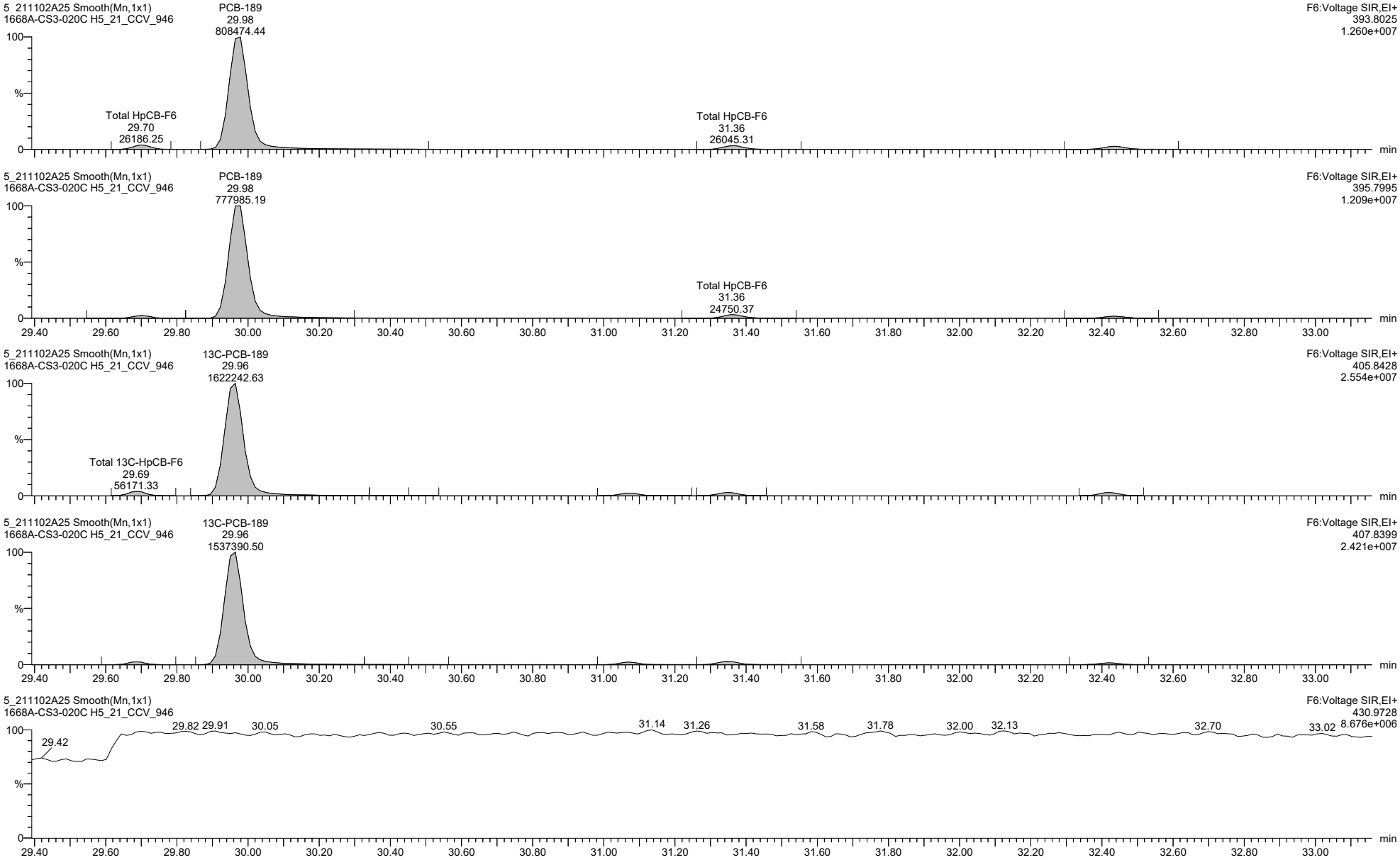

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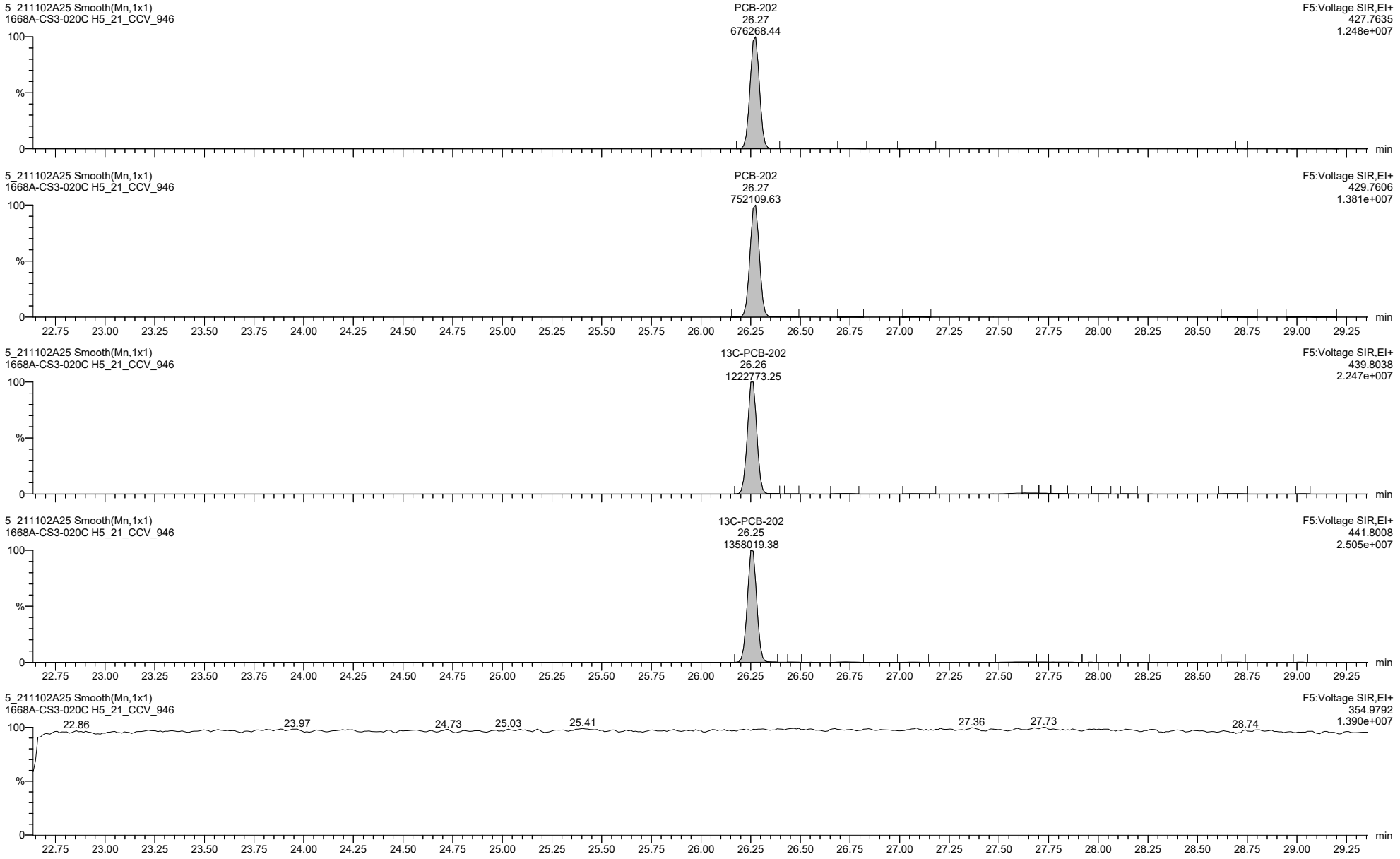

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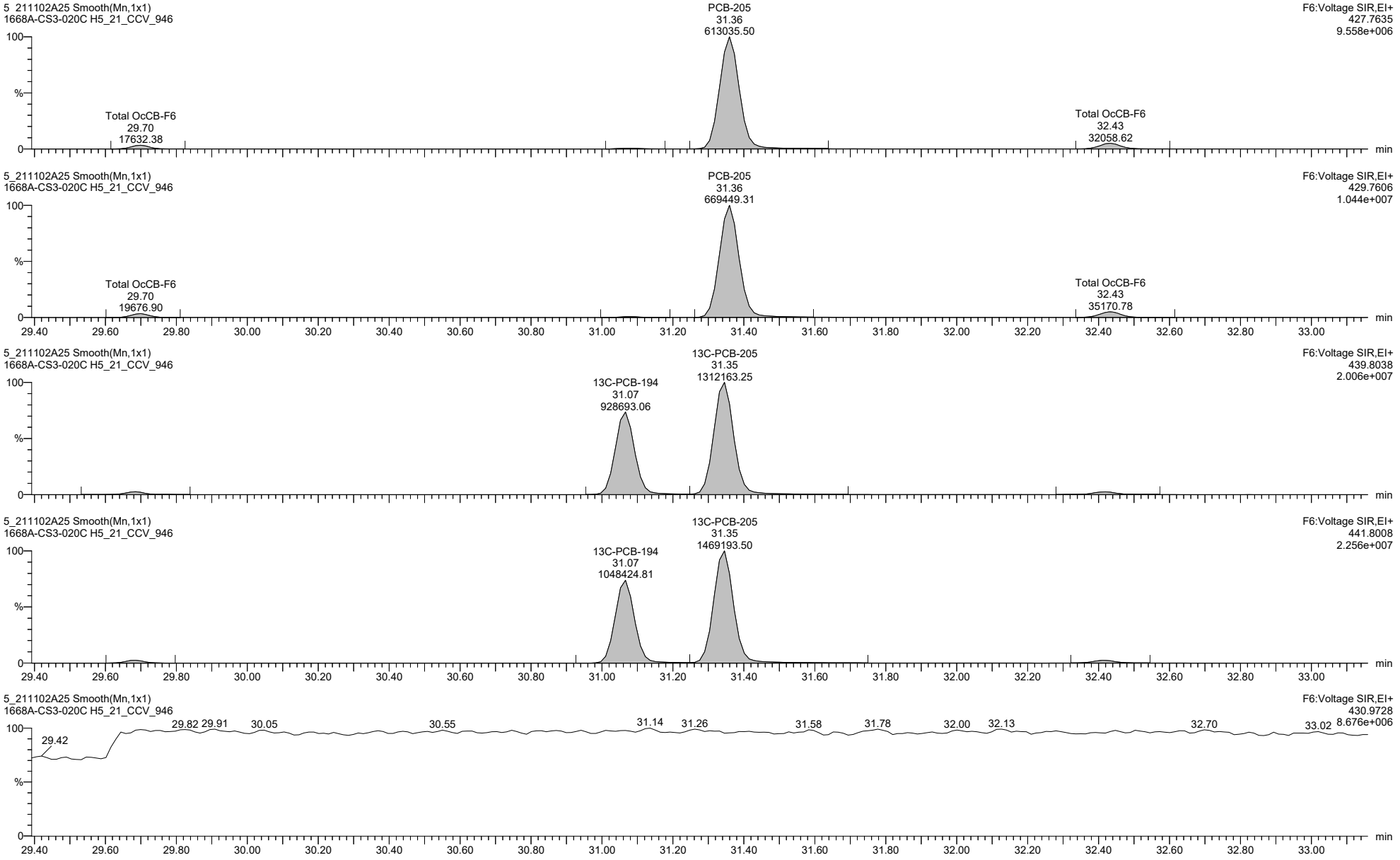

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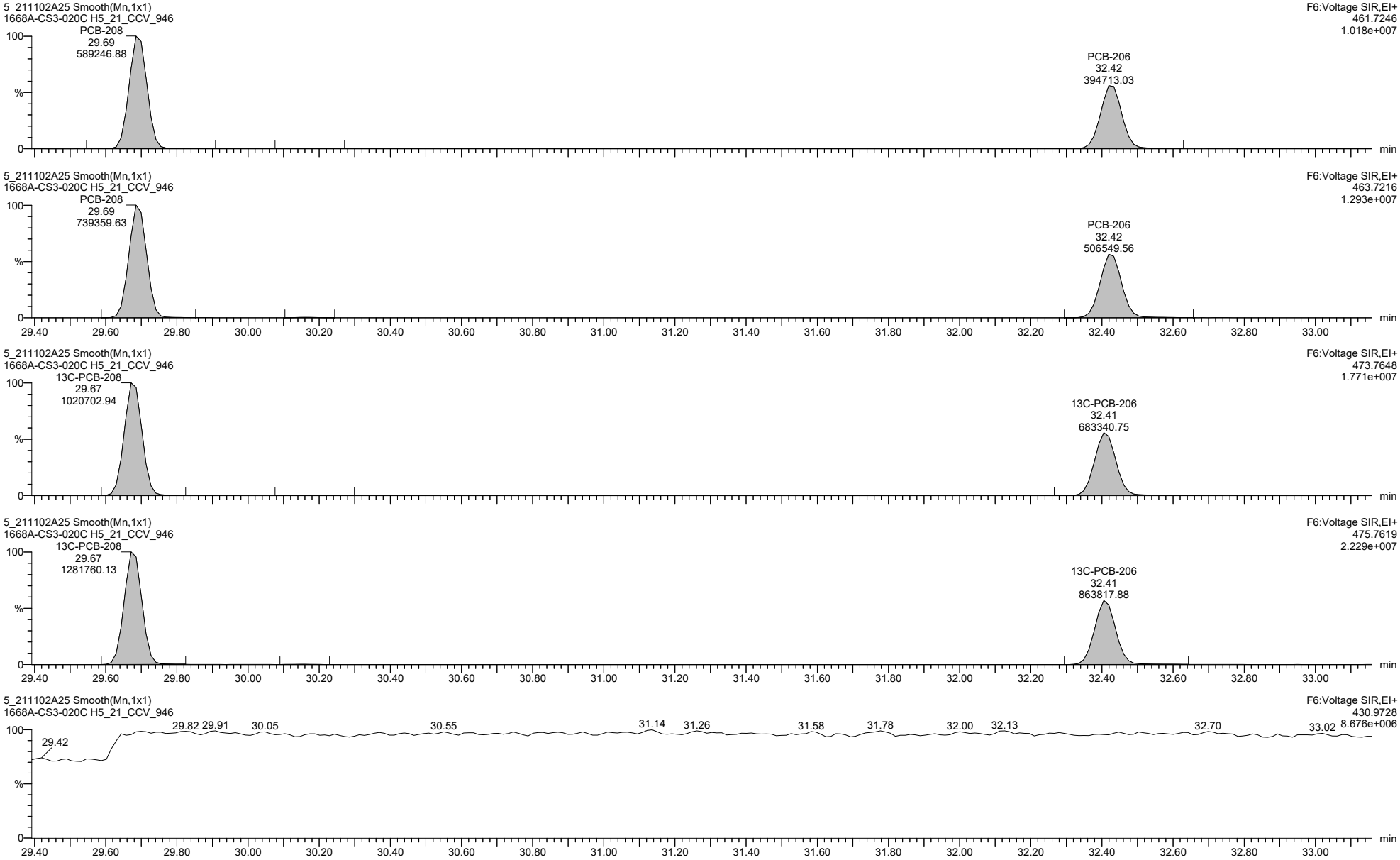

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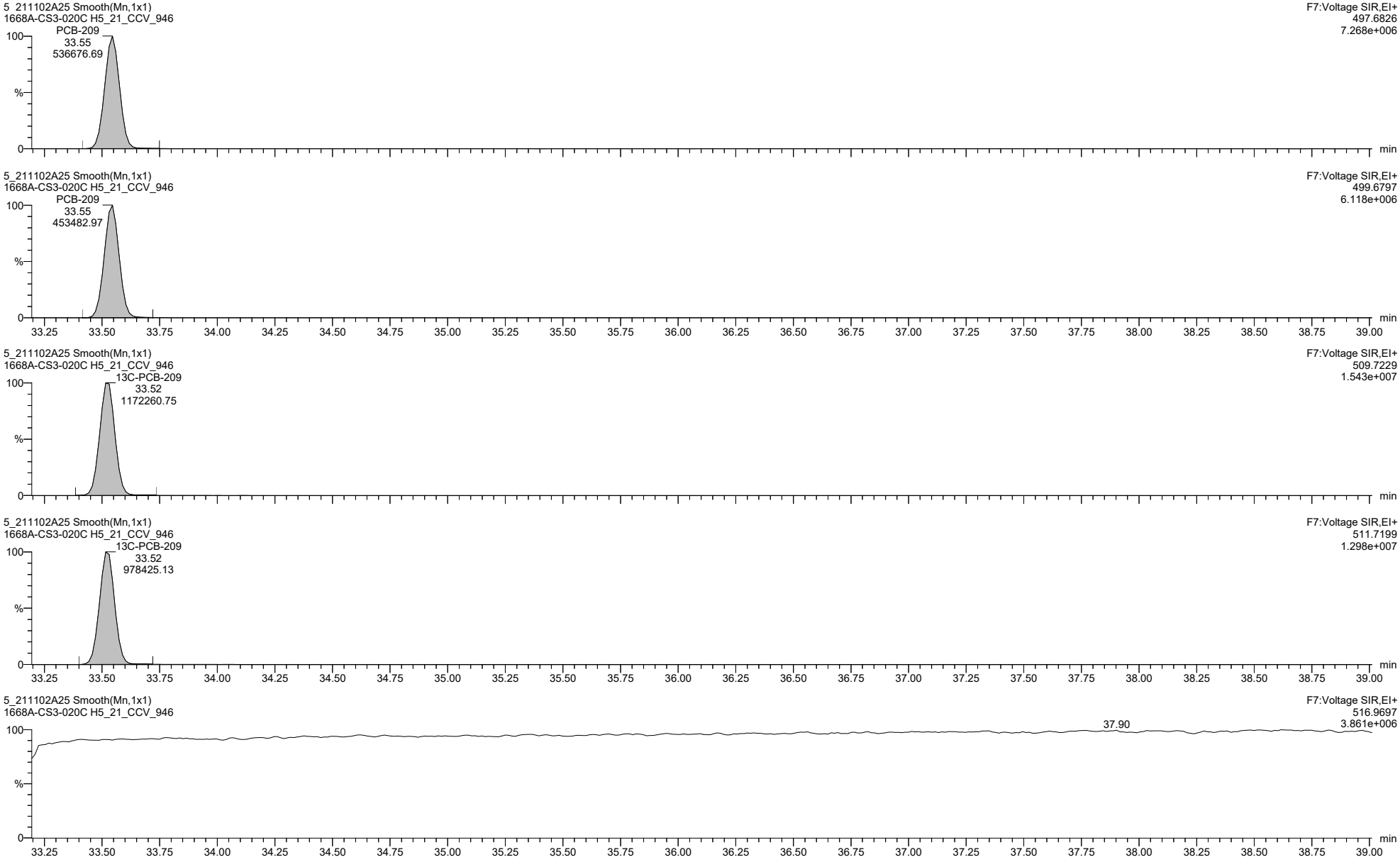

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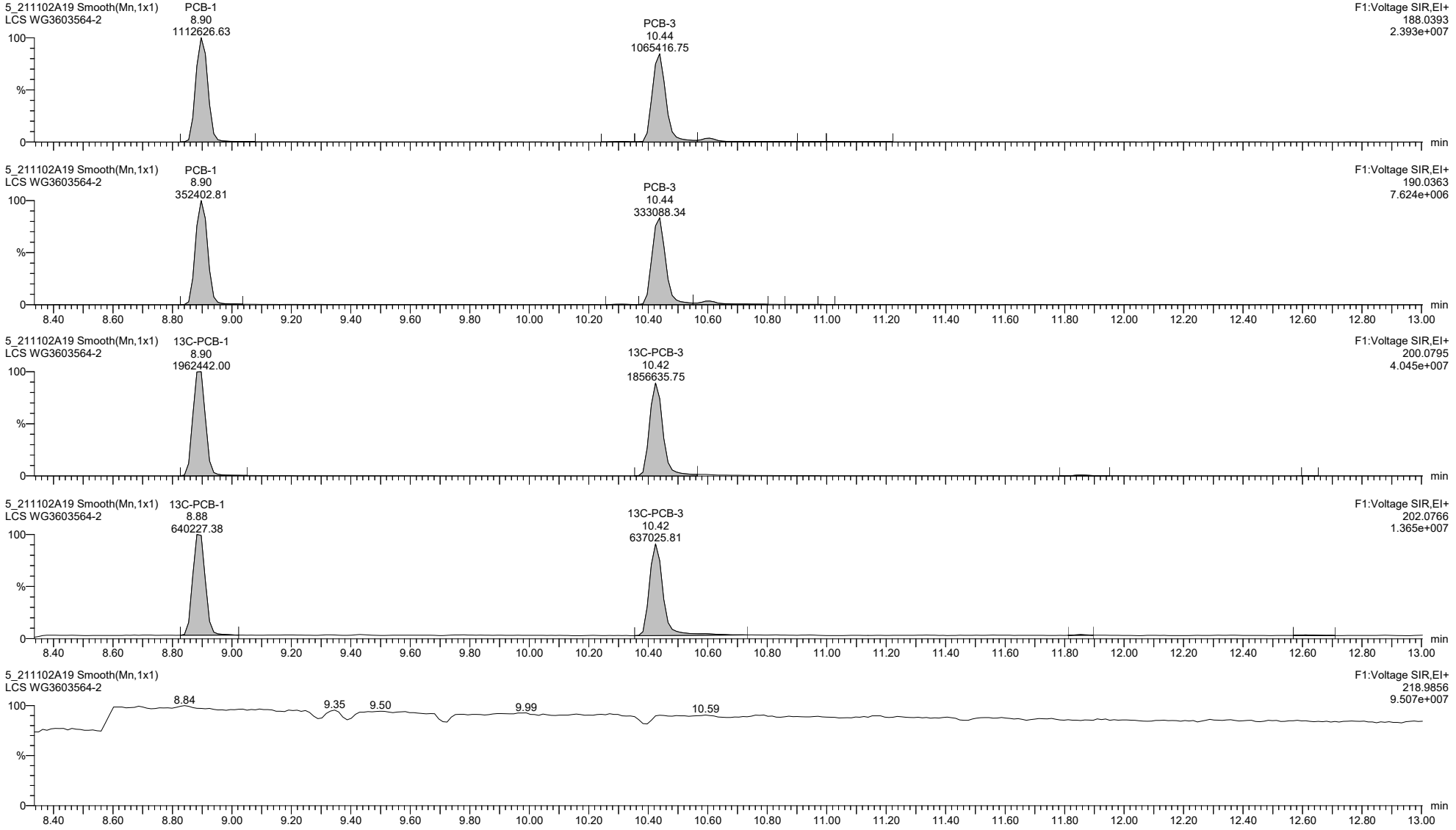
Calibration: C:\MassLynx\PCB.PRO\CurveDB\5_201202A_ICAL.cdb 02 Dec 2020 16:02:34

Name: 5_211102A19, Date: 02-Nov-2021, Time: 22:42:12, ID: WG3603564-2, Description: LCS, Vial: Tray1:17



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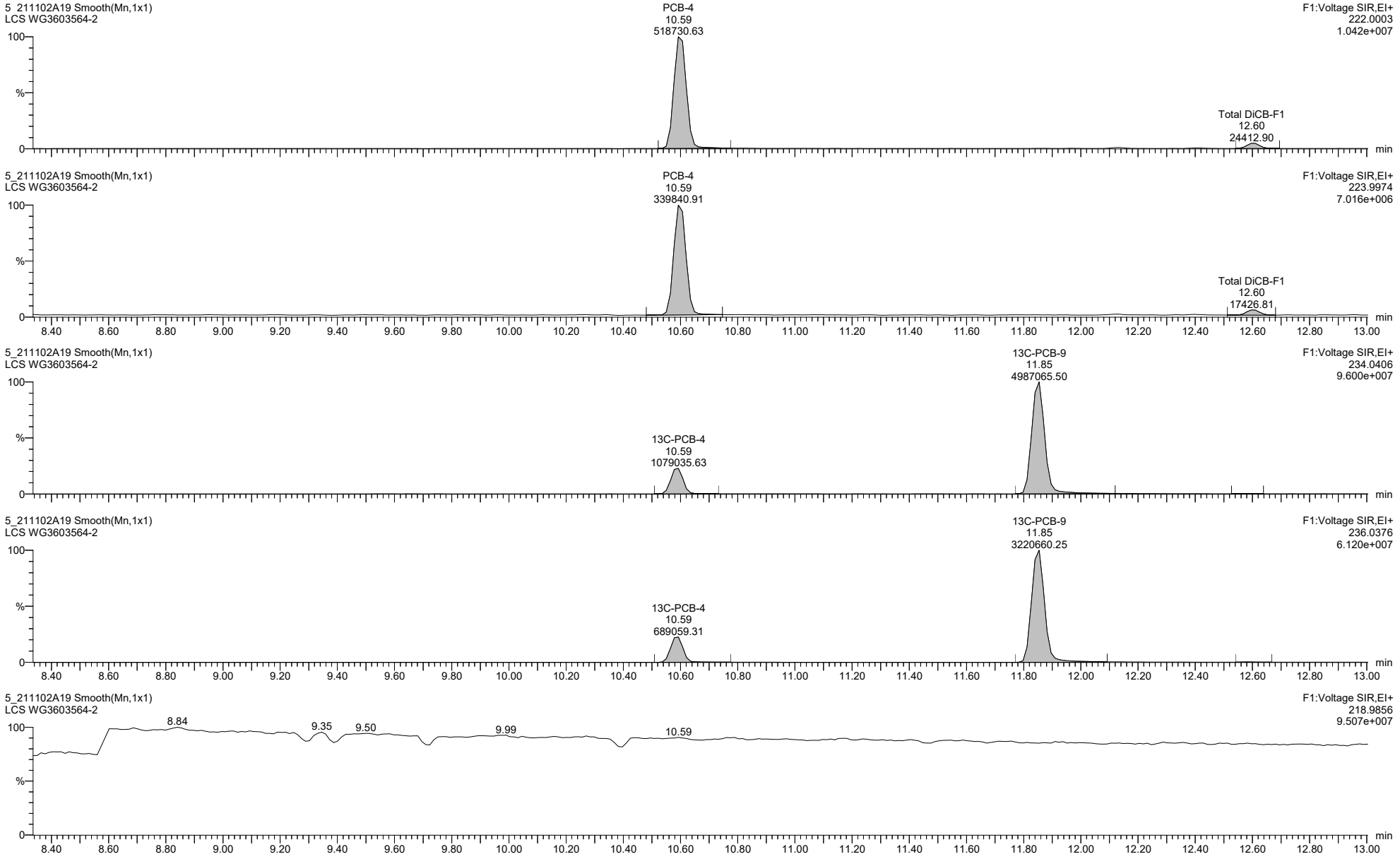

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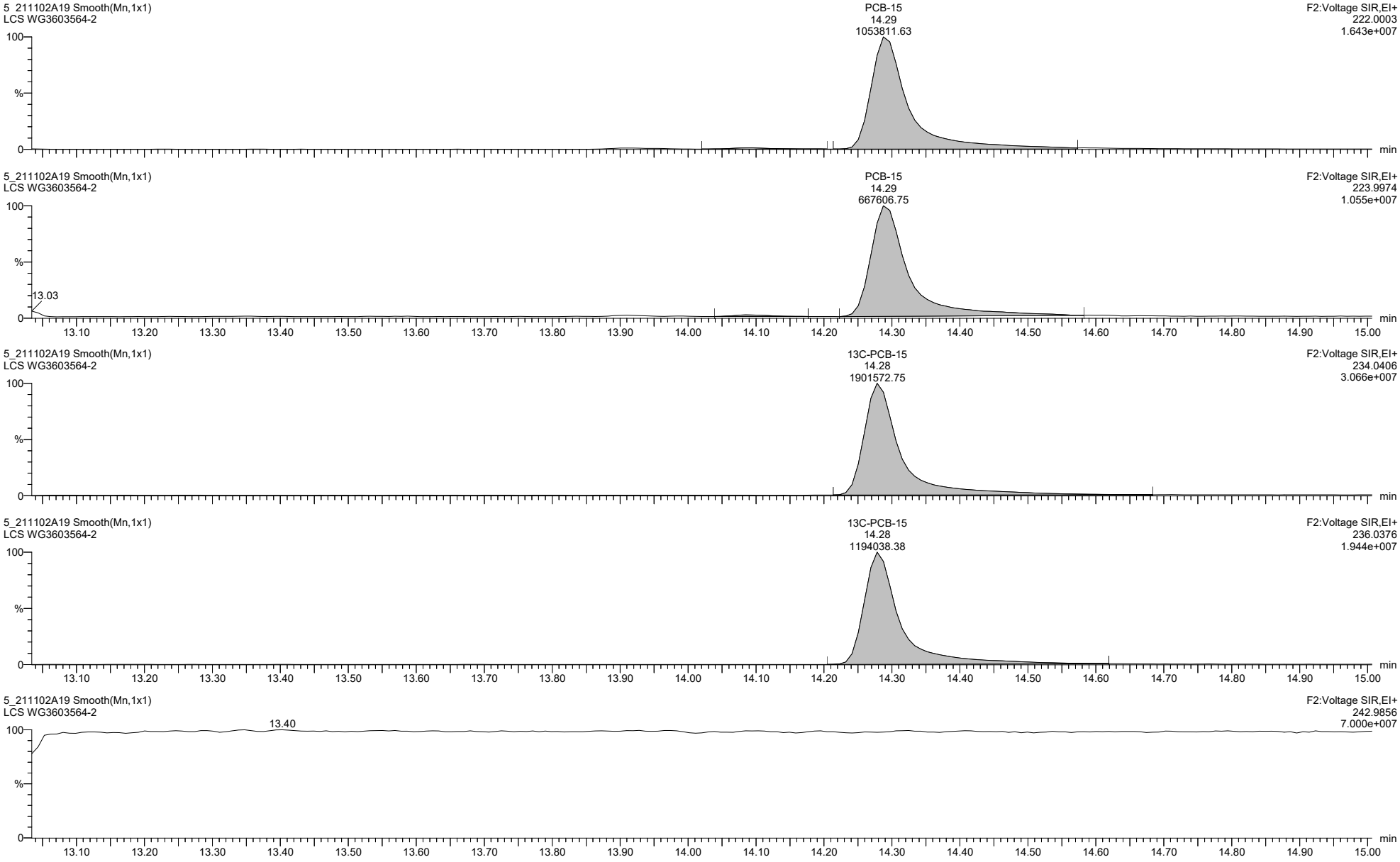

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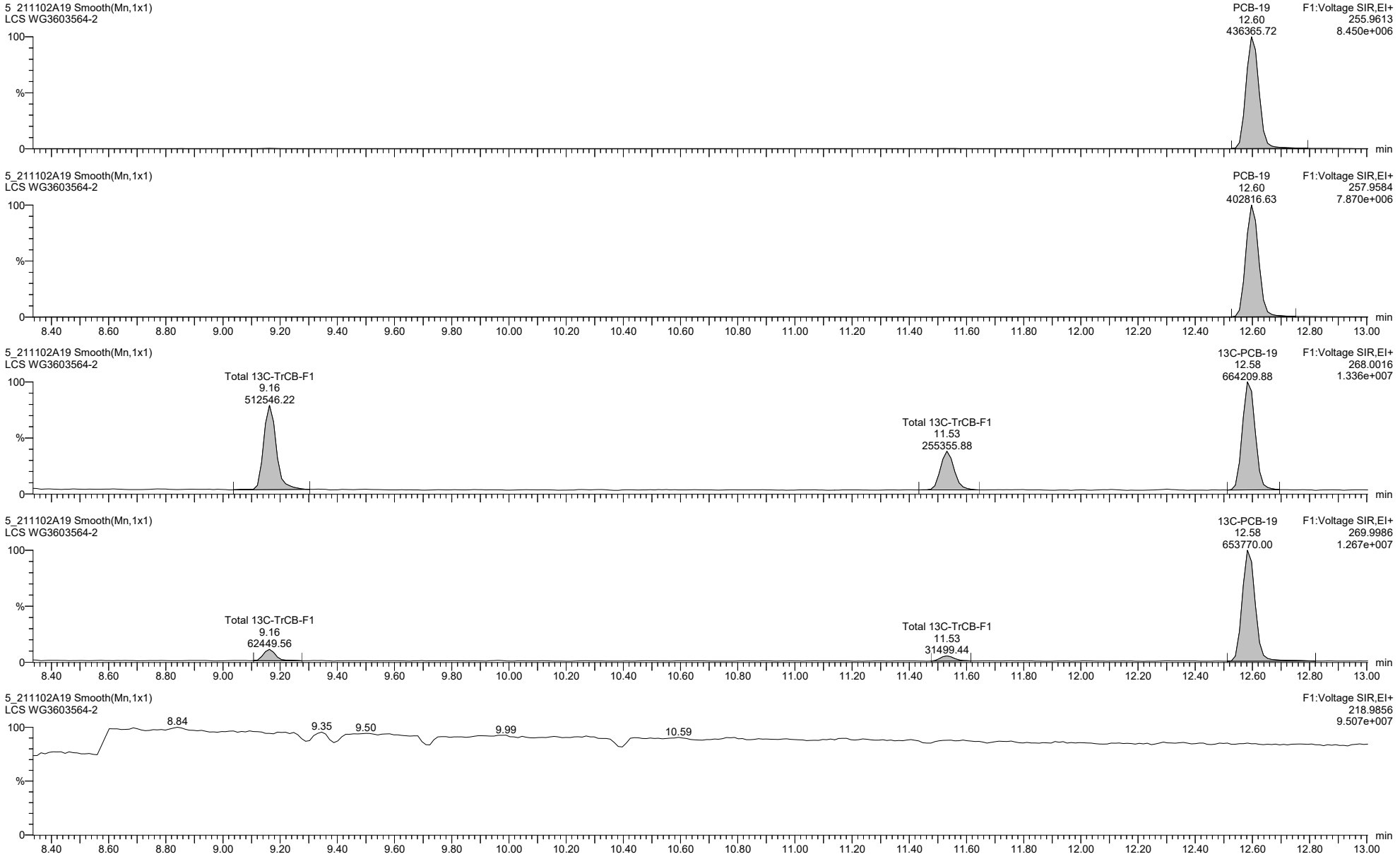

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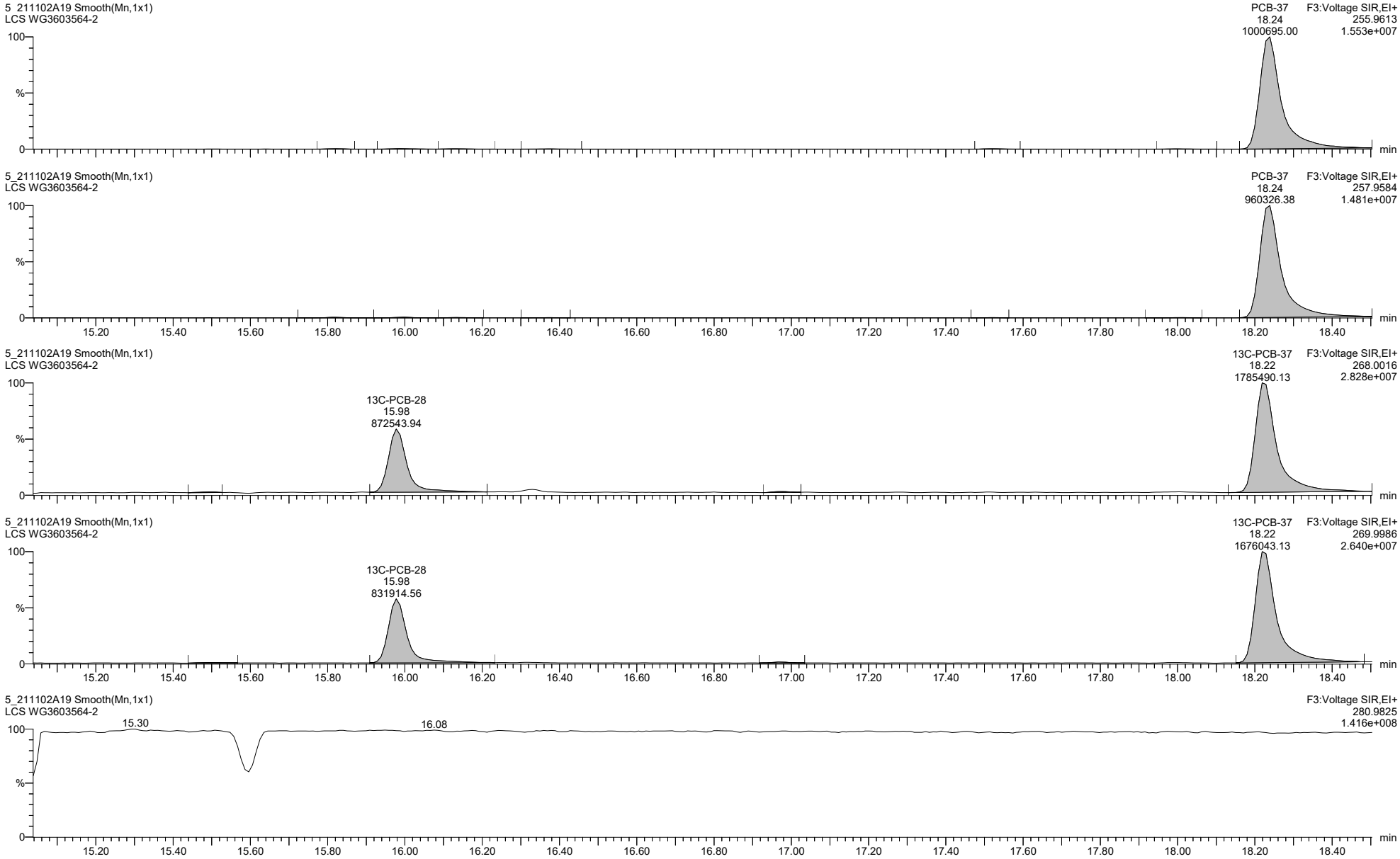
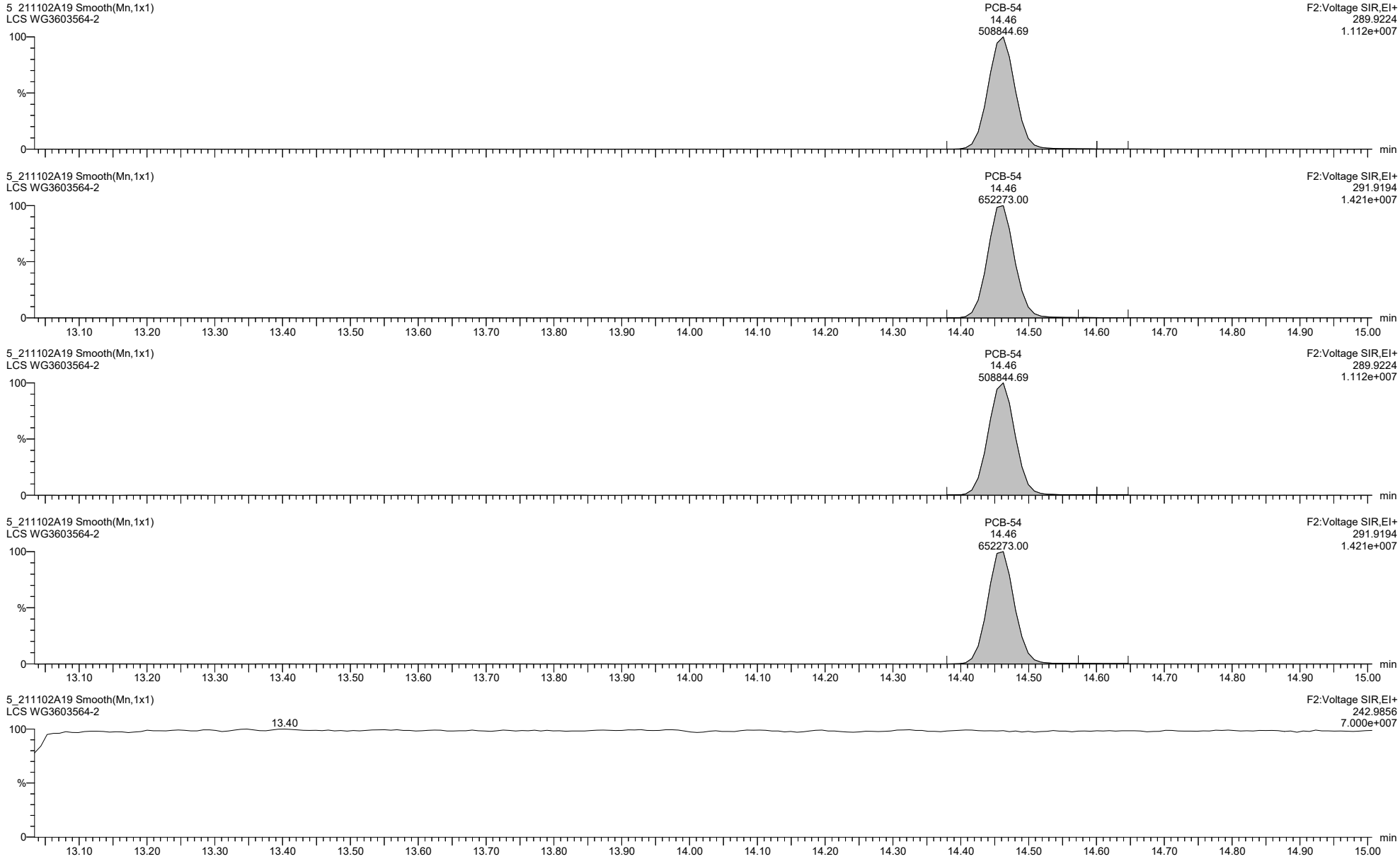


Name: 5_211102A19, Date: 02-Nov-2021, Time: 22:42:12, ID: WG3603564-2, Description: LCS, Vial: Tray1:17



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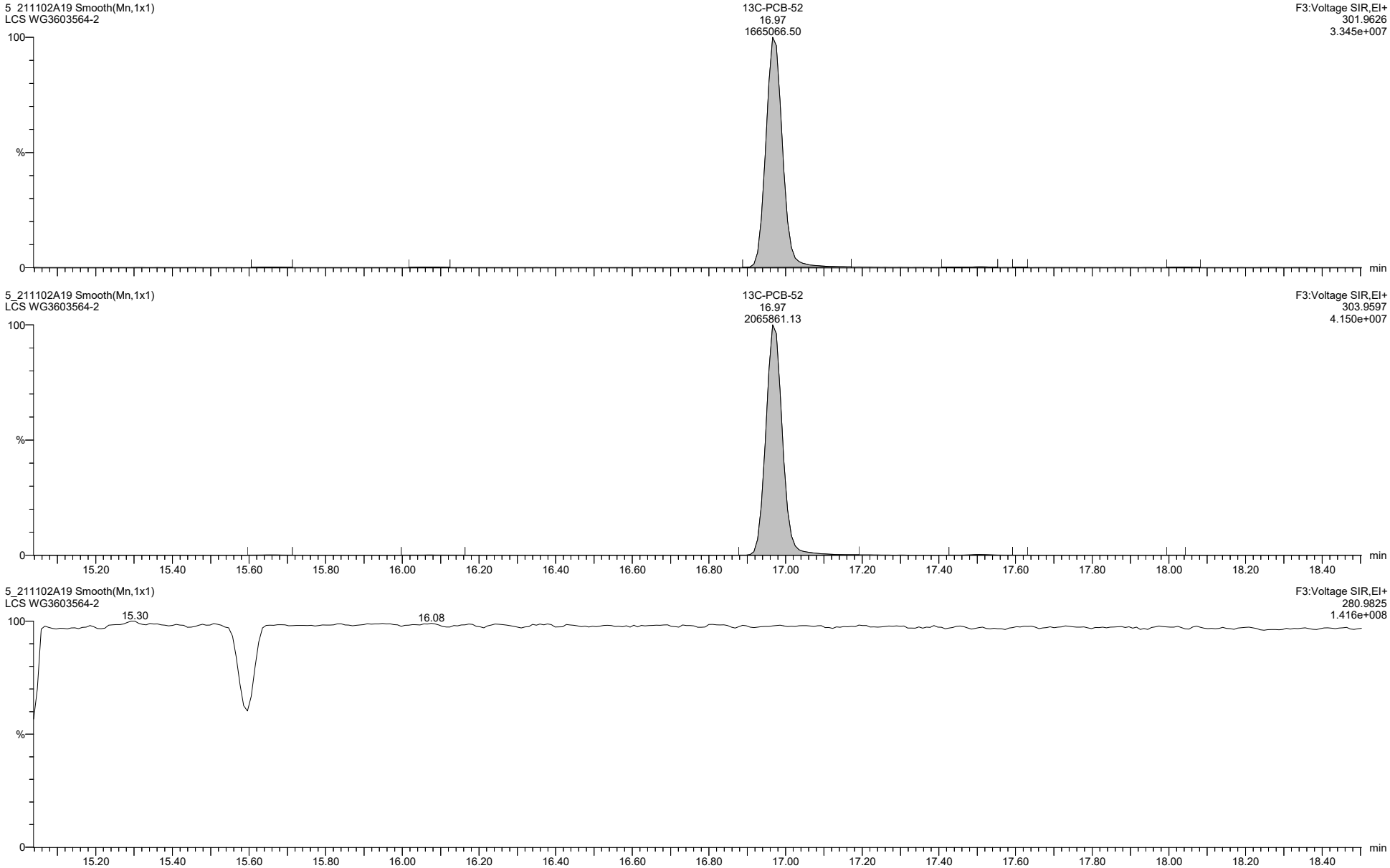

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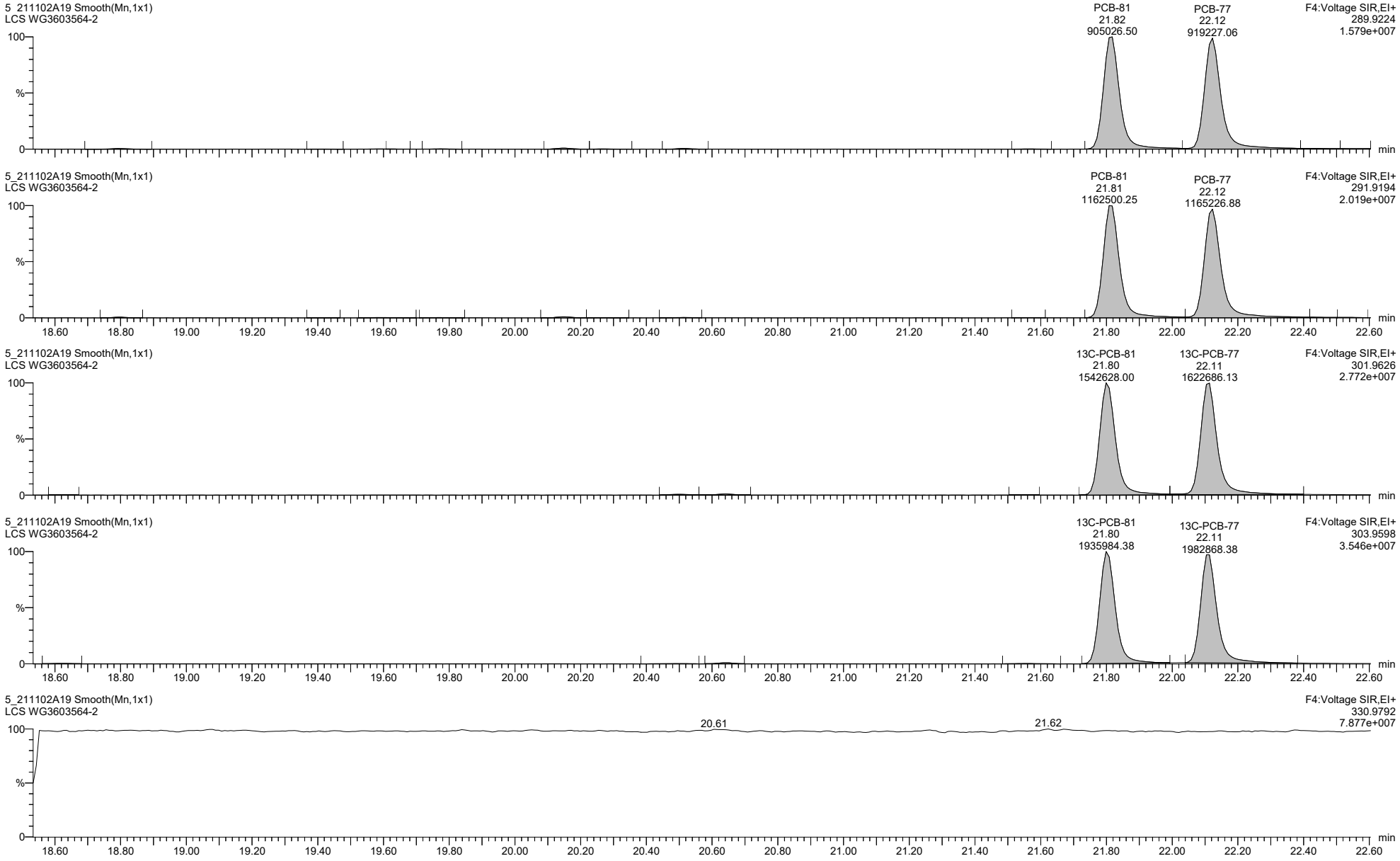

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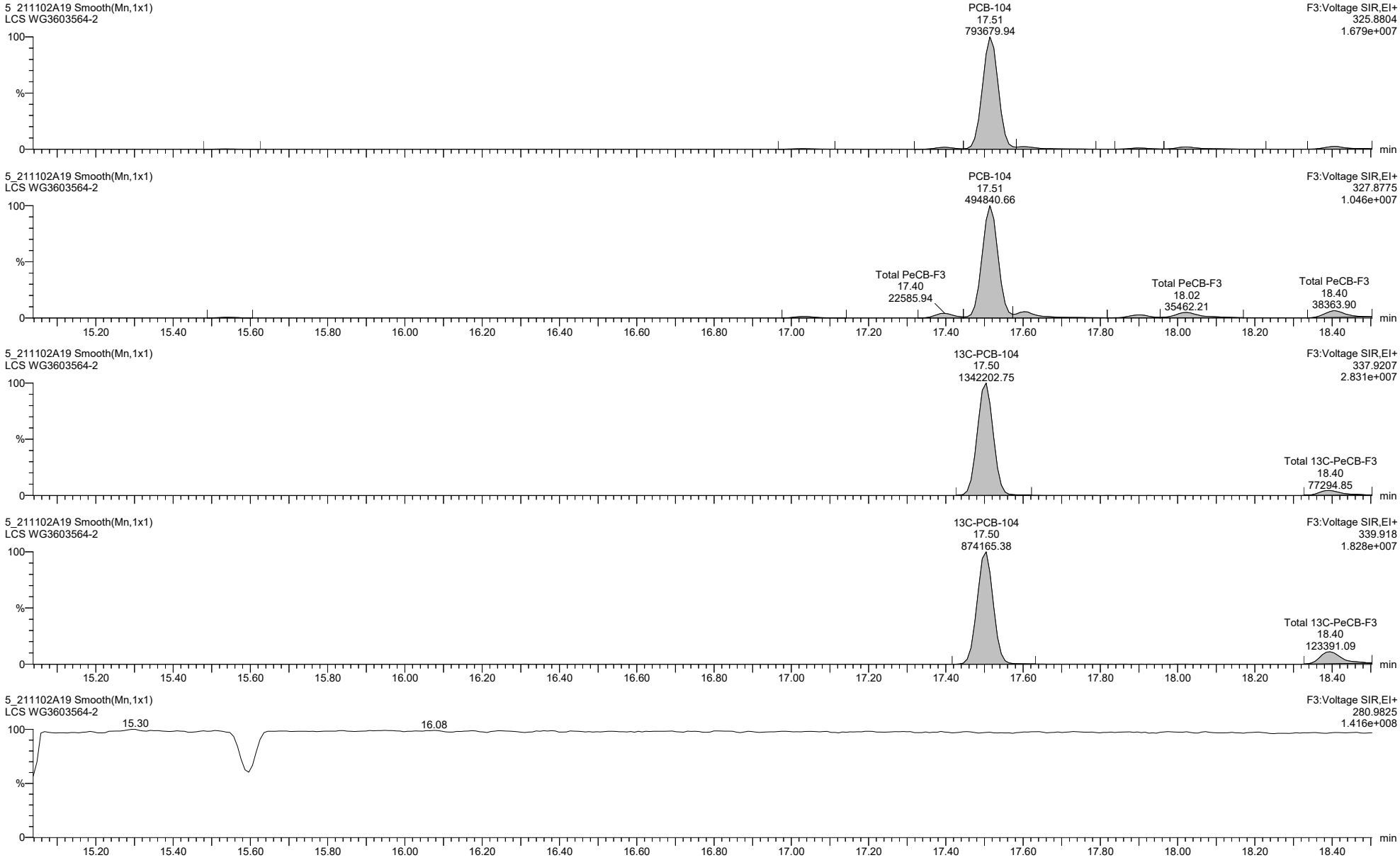

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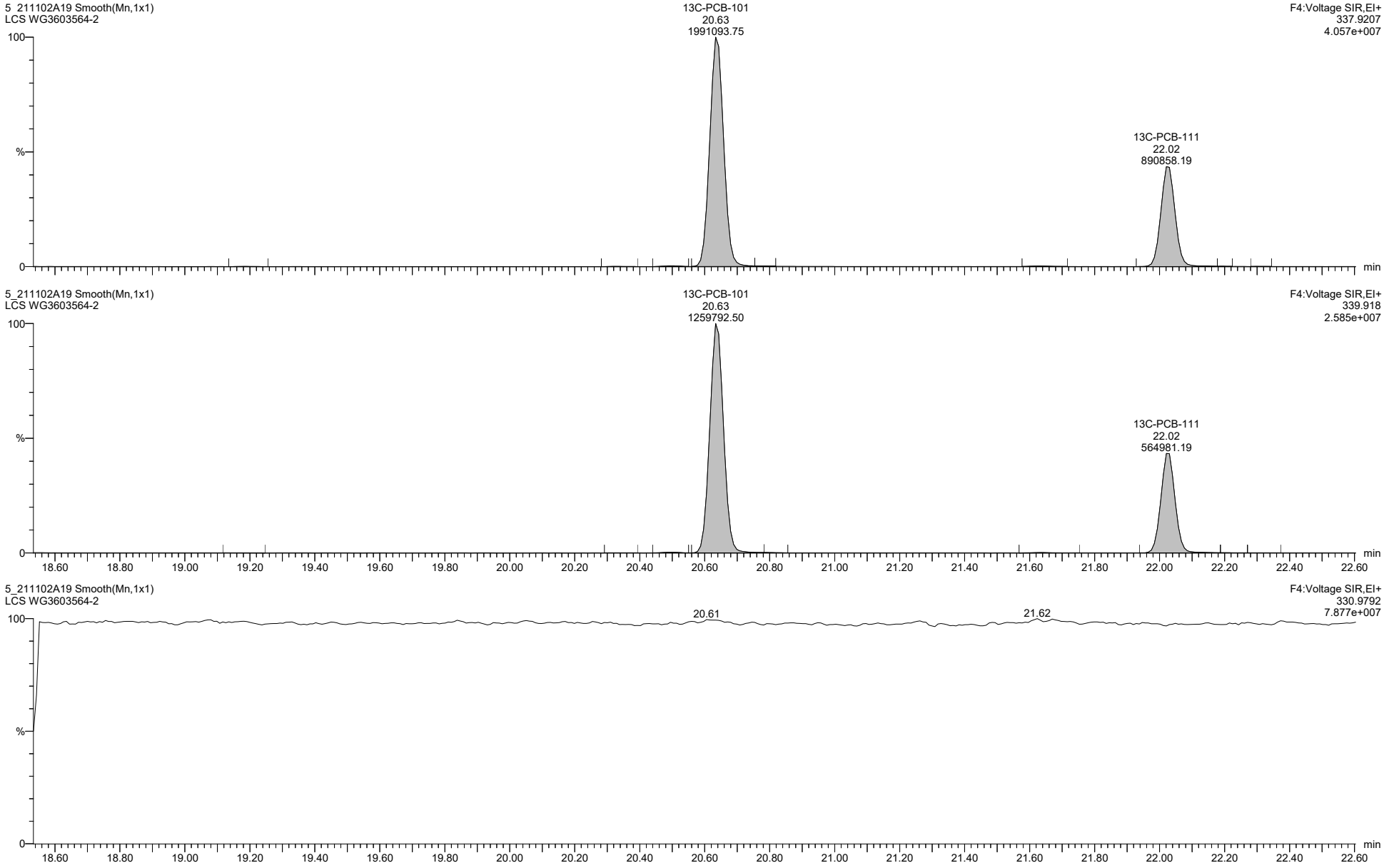

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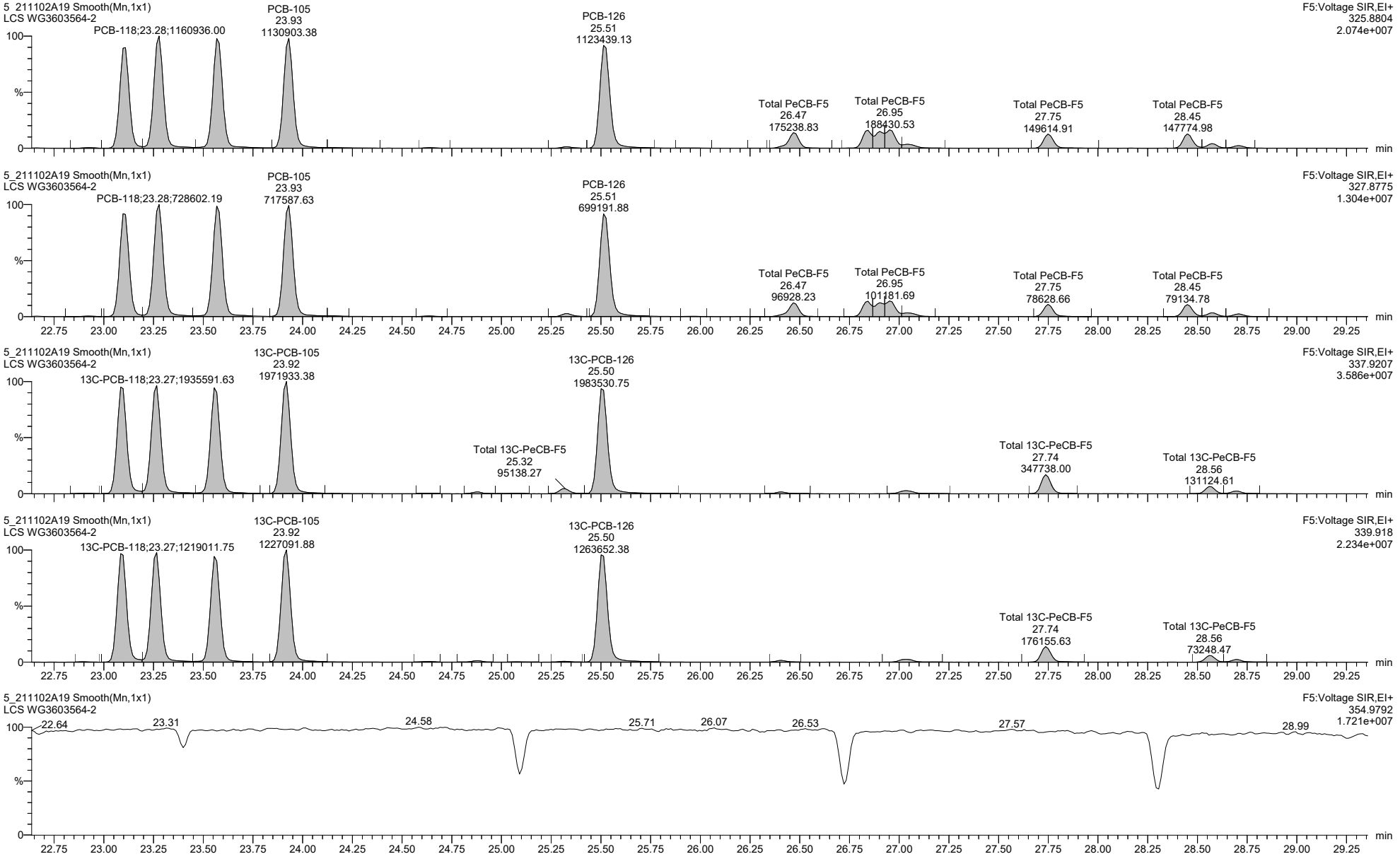

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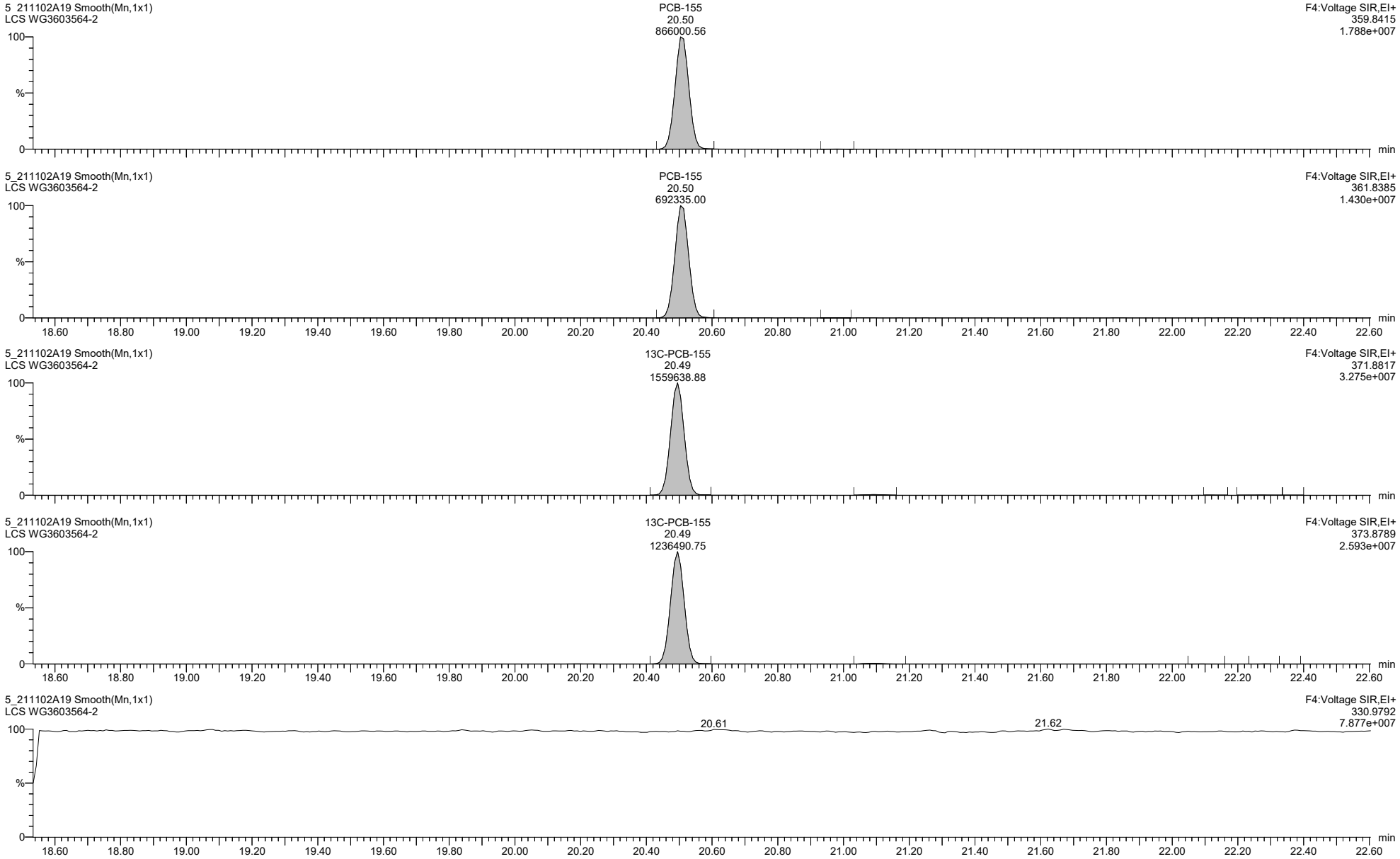

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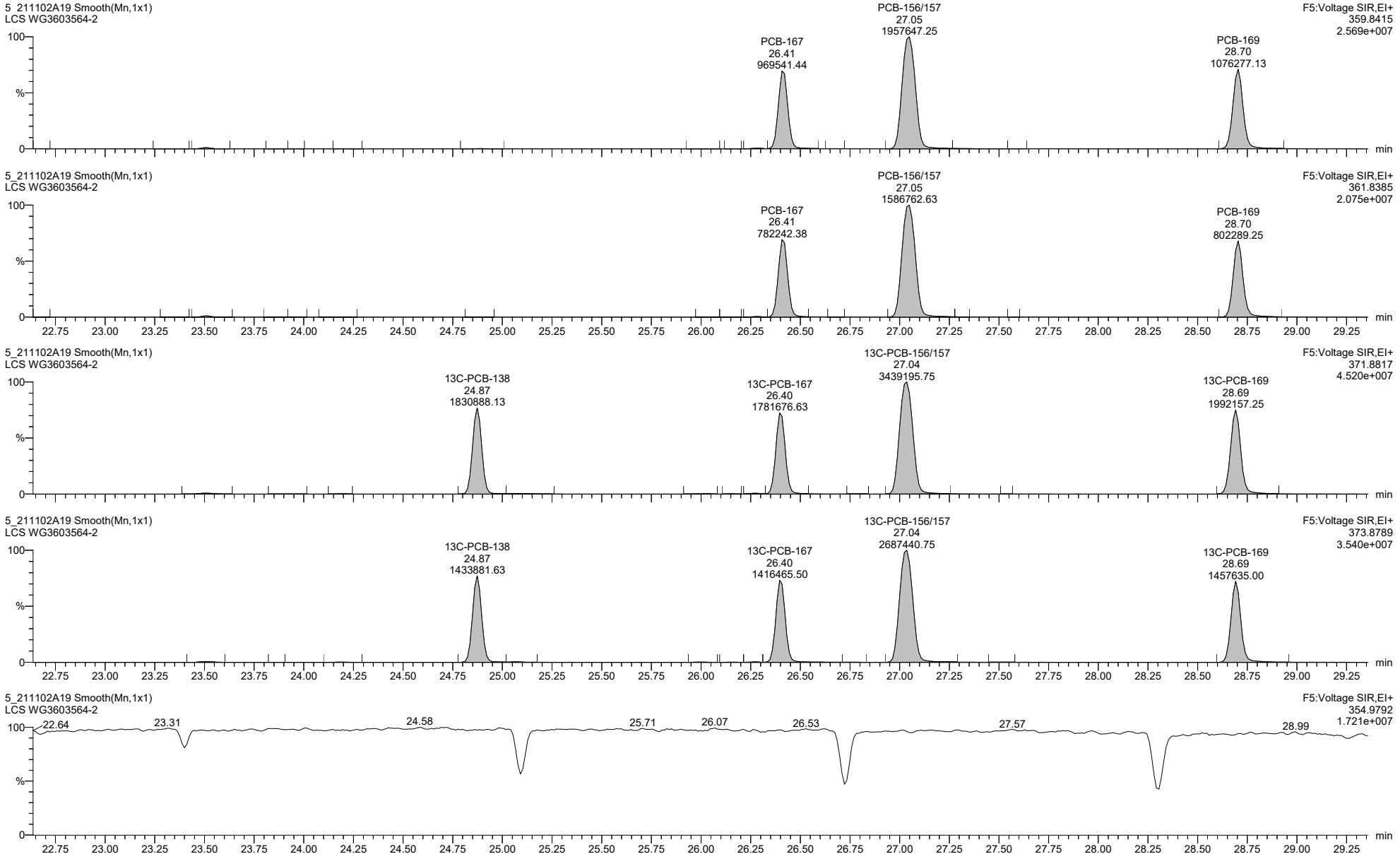

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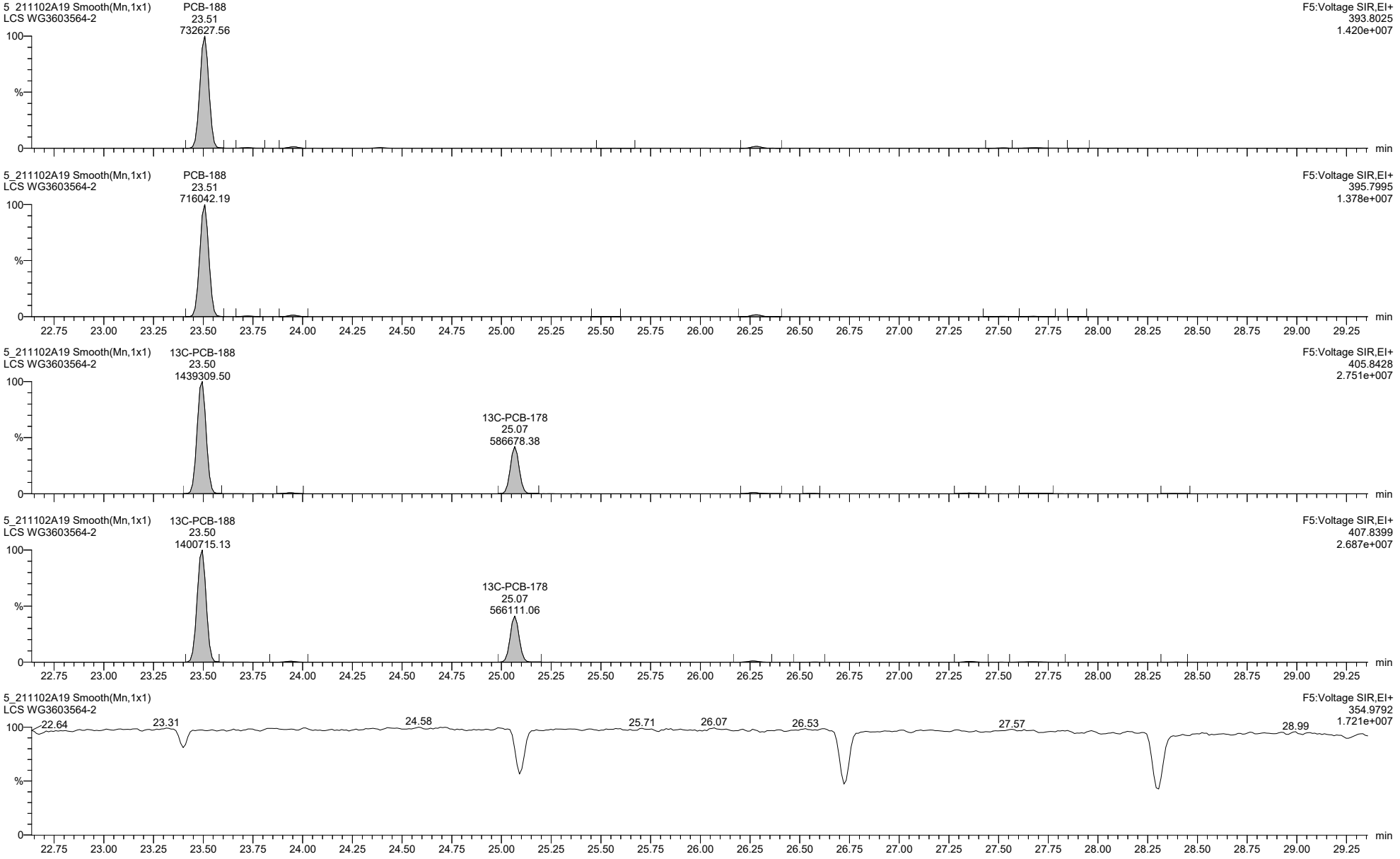

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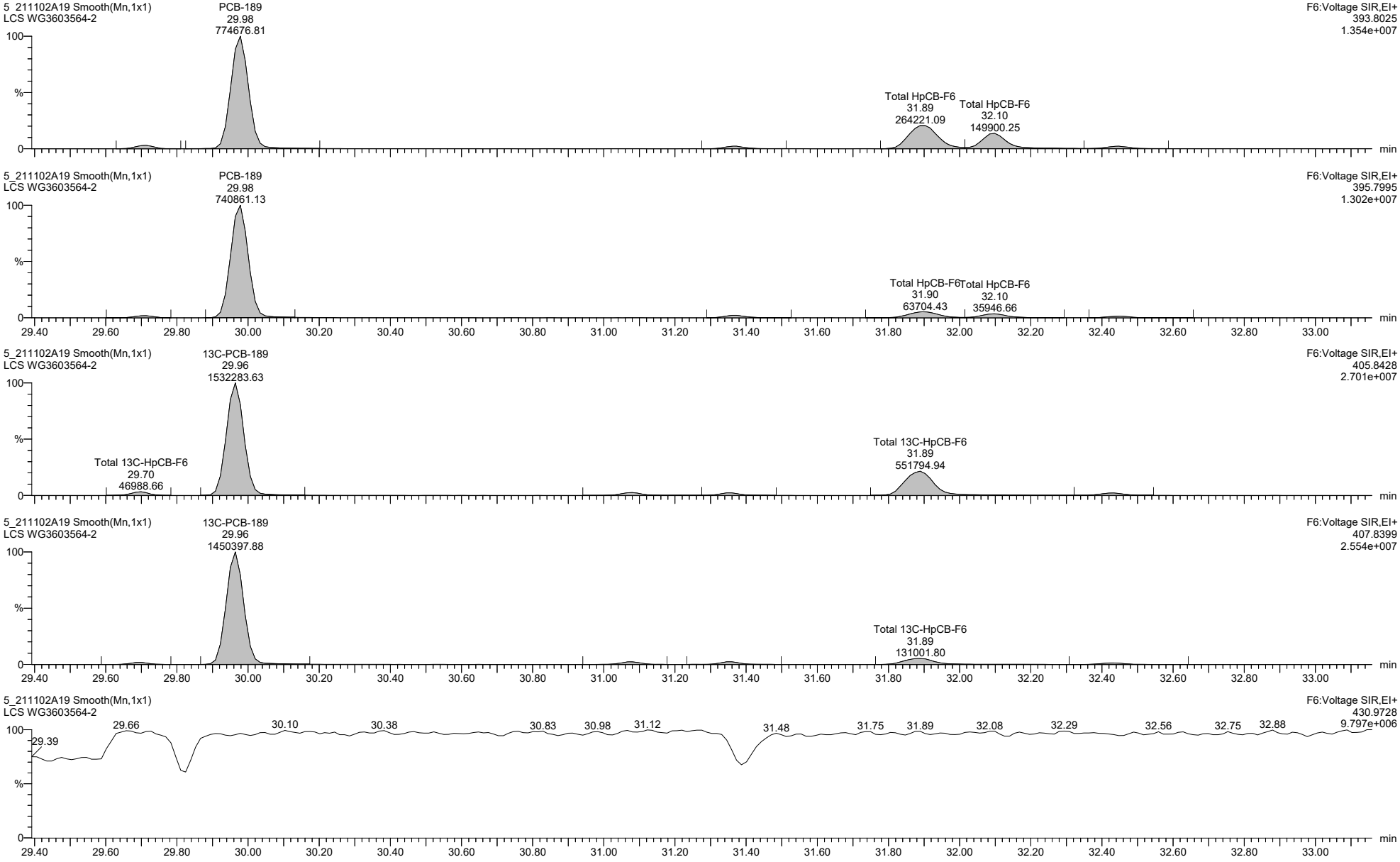

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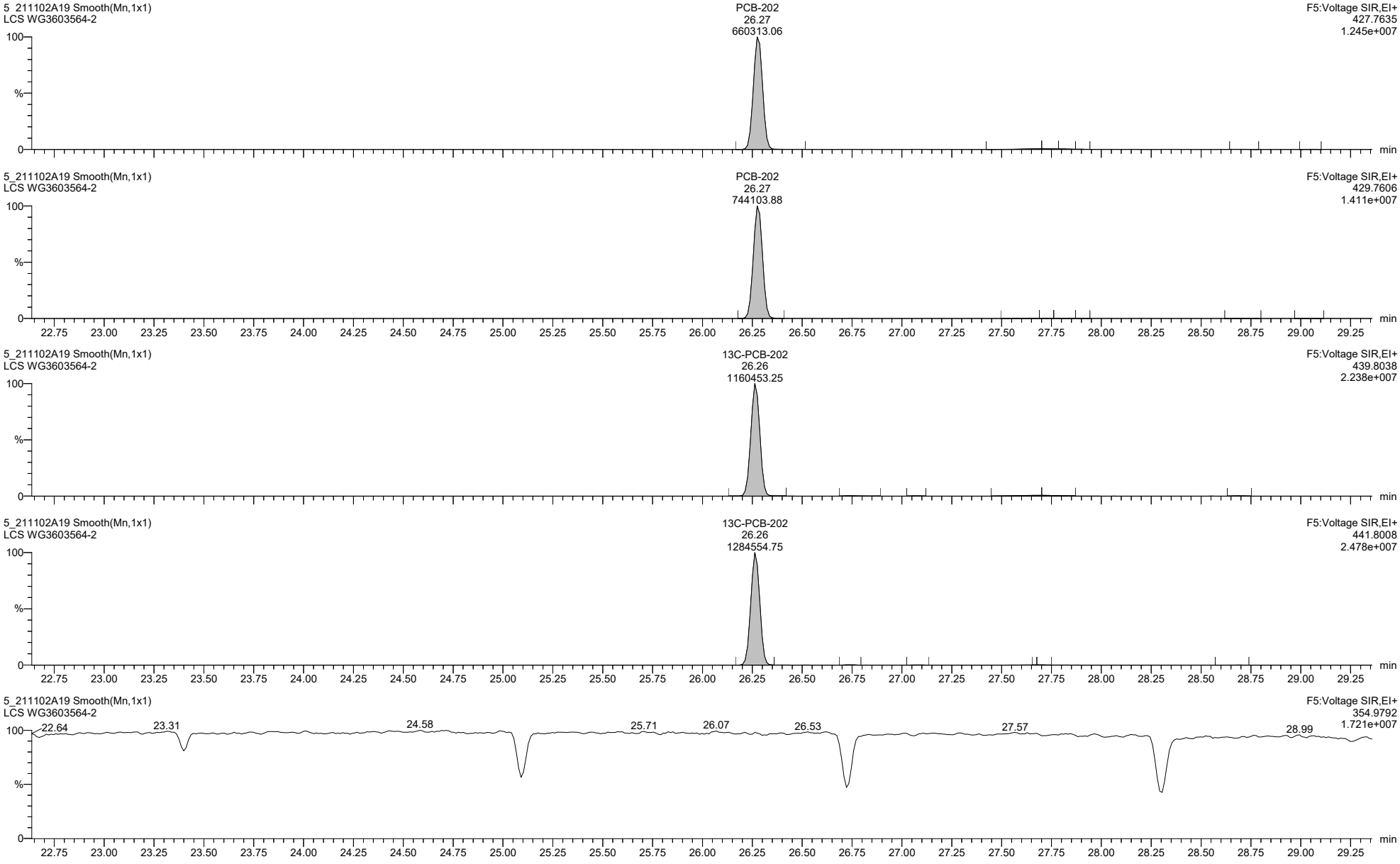

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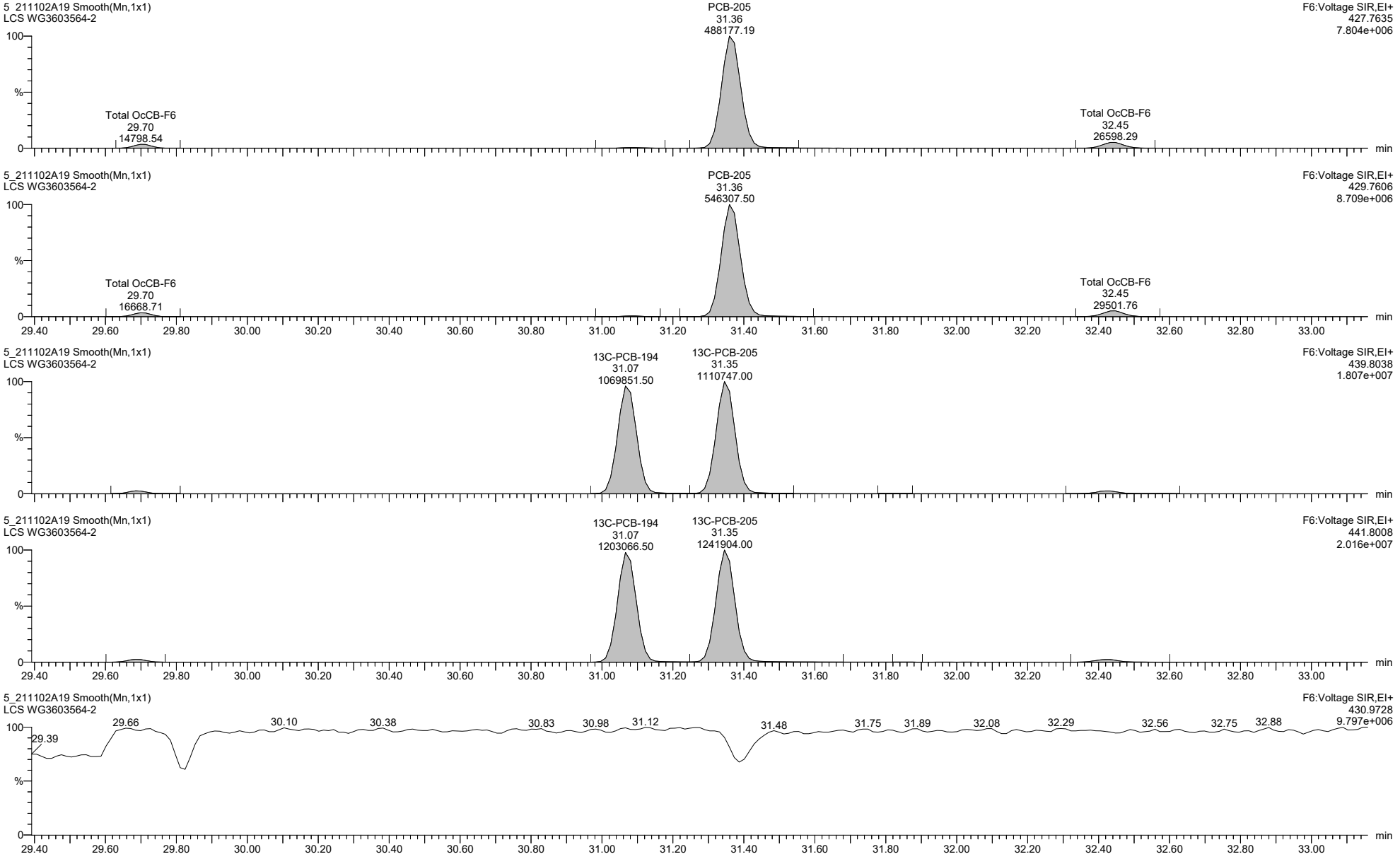

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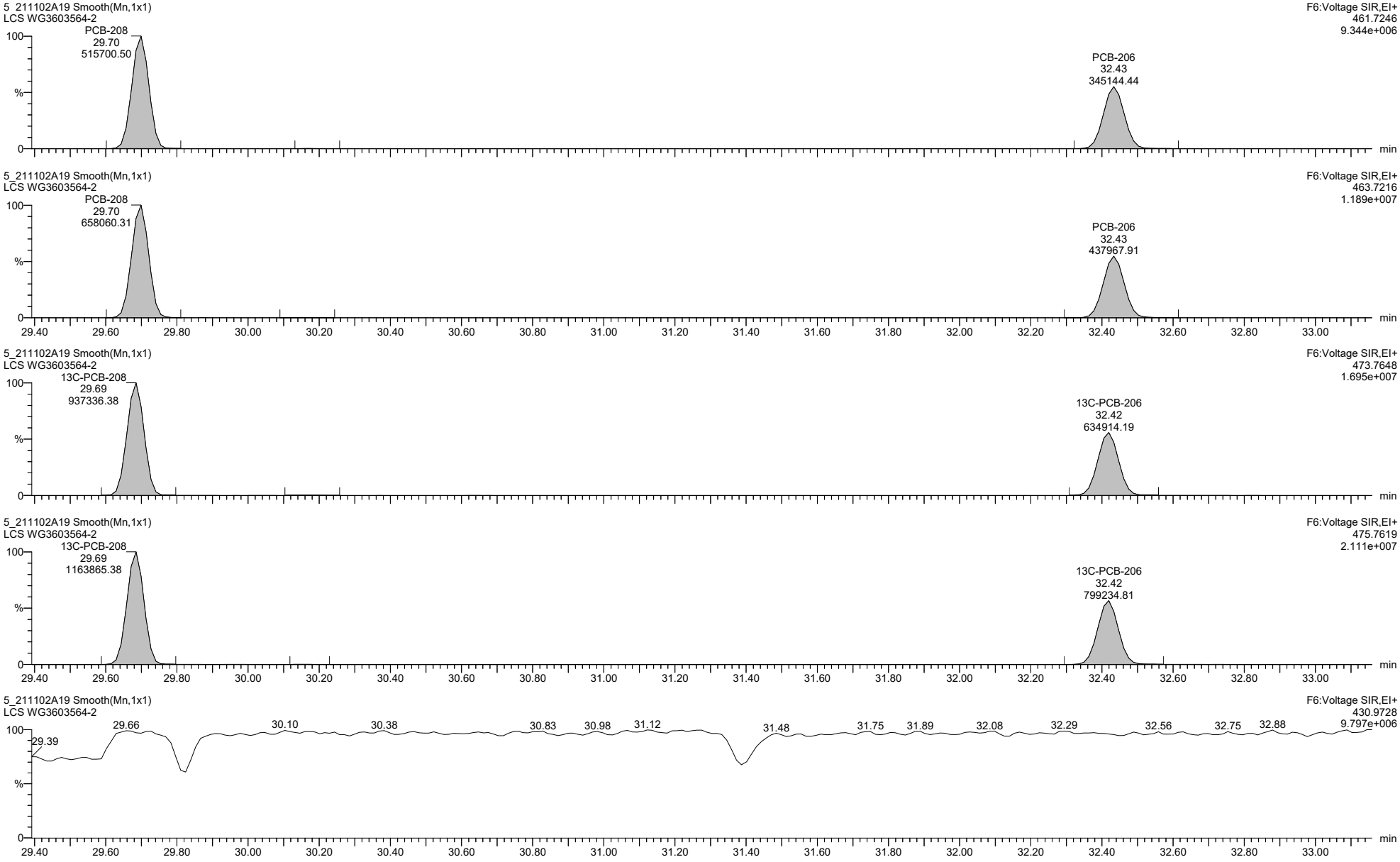
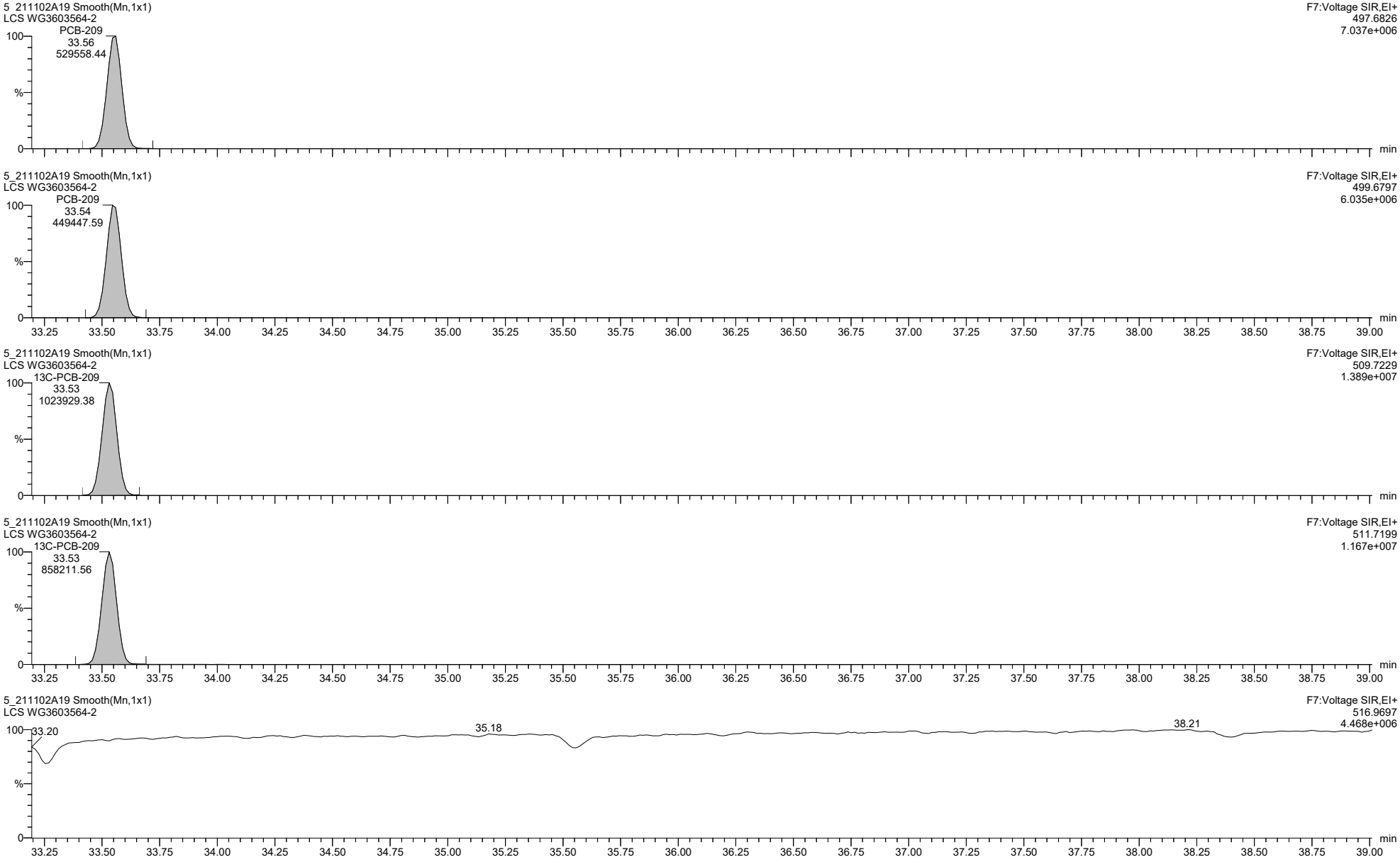


Name: 5_211102A19, Date: 02-Nov-2021, Time: 22:42:12, ID: WG3603564-2, Description: LCS, Vial: Tray1:17



Quantify Sample Summary Report **MassLynx V4.2 SCN1012**

Dataset: I:\Organics Instrument\HIGHRES GCMS Completed Results Files\HR-5\5-211102A2-1108NA.qld

Last Altered: Monday, November 08, 2021 13:43:10 Eastern Standard Time
Printed: Monday, November 08, 2021 15:57:46 Eastern Standard Time

Method: C:\MassLynx\PCB.PRO\MethDB\1668_OCTYL_209-1025.mdb 25 Oct 2021 11:29:00
Calibration: 08 Nov 2021 13:20:26

Name: 5_211102A17, Date: 02-Nov-2021, Time: 21:19:40, ID: H5_21_WDM_945, Description: 1668A-CS7-020C, Vial: Tray1:2

	Target Analyte	#Hom	Total Area	Ion1 Area	Ion2 Area	Ra	Ra Fail=Y...	RT	RRT	RT LCL	RT UCL	Conc.	%Rec	Mod.Comment	Noise 1	Noise 2
1	* PCB-1		1808246	1370799	437447	3.13	NO	8.94	1.00	8.91	8.97	25.38315	101.5		3135	2488
2	PCB-2		1669590	1268967	400623	3.17	NO	10.34	0.99	10.31	10.37	25.00000	100.0		3135	2488
3	PCB-3		1848519	1406558	441960	3.18	NO	10.47	1.00	10.43	10.50	25.98415	103.9		3135	2488
4	*PCB-4		967537	583634	383902	1.52	NO	10.62	1.00	10.59	10.65	28.30712	113.2		2655	13058
5	PCB-10		1586214	966894	619320	1.56	NO	10.73	1.01	10.70	10.77	25.00000	100.0		2655	13058
6	PCB-9		1568529	953019	615510	1.55	NO	11.90	1.12	11.86	11.93	25.00000	100.0		2655	13058
7	PCB-7		1614118	964132	649986	1.48	NO	11.99	1.13	11.96	12.03	25.00000	100.0		2655	13058
8	PCB-6		1638102	990883	647219	1.53	NO	12.16	1.15	12.13	12.20	25.00000	100.0		2655	13058
9	PCB-5		1325505	801354	524151	1.53	NO	12.36	1.16	12.33	12.39	25.00000	100.0		2655	13058
10	PCB-8		1895102	1149286	745816	1.54	NO	12.43	1.17	12.40	12.46	25.00000	100.0		2655	13058
11	* PCB-14		1708699	1048435	660264	1.59	NO	13.40	0.94	13.37	13.44	25.00000	100.0		23294	23499
12	PCB-11		1622494	991375	631119	1.57	NO	13.93	0.97	13.89	13.96	25.00000	100.0		23294	23499
13	PCB-13/12		3200310	1952477	1247832	1.56	NO	14.12	0.99	14.09	14.15	50.00000	100.0		23294	23499
14	PCB-15		1971274	1210875	760399	1.59	NO	14.31	1.00	14.28	14.35	31.97184	127.9		23294	23499
15	* PCB-19		865138	454479	410658	1.11	NO	12.62	1.00	12.59	12.66	28.32644	113.3		2245	2165
16	* PCB-30/18		2449499	1280950	1168549	1.10	NO	13.70	1.09	13.66	13.73	50.00000	100.0		4313	3529
17	PCB-17		952769	499062	453707	1.10	NO	13.98	1.11	13.95	14.02	25.00000	100.0		4313	3529
18	PCB-27		1416439	743897	672542	1.11	NO	14.11	1.12	14.08	14.15	25.00000	100.0		4313	3529
19	PCB-24		1367562	711427	656135	1.08	NO	14.20	1.13	14.16	14.23	25.00000	100.0		4313	3529
20	PCB-16		907869	476673	431196	1.11	NO	14.27	1.13	14.24	14.30	25.00000	100.0		4313	3529
21	PCB-32		1532429	806274	726155	1.11	NO	14.55	1.15	14.52	14.59	25.00000	100.0		4313	3529
22	* PCB-34		1429714	727744	701970	1.04	NO	15.25	0.84	15.22	15.29	25.00000	100.0		7431	4486
23	PCB-23		1515546	766709	748837	1.02	NO	15.34	0.84	15.31	15.37	25.00000	100.0		7431	4486
24	PCB-29/26		2937458	1494291	1443168	1.04	NO	15.54	0.85	15.50	15.57	50.00000	100.0		7431	4486
25	PCB-25		1767102	898501	868601	1.03	NO	15.66	0.86	15.63	15.70	25.00000	100.0		7431	4486
26	PCB-31		1633557	830646	802911	1.03	NO	15.84	0.87	15.81	15.87	25.00000	100.0		7431	4486
27	PCB-28/20		2839623	1444246	1395377	1.03	NO	16.03	0.88	15.99	16.06	50.00000	100.0		7431	4486
28	PCB-21/33		3200919	1624379	1576540	1.03	NO	16.14	0.88	16.11	16.18	50.00000	100.0		7431	4486
29	PCB-22		1526538	768073	758465	1.01	NO	16.39	0.90	16.36	16.42	25.00000	100.0		7431	4486
30	PCB-36		1636872	833292	803580	1.04	NO	17.22	0.94	17.19	17.25	25.00000	100.0		7431	4486
31	PCB-39		1568124	798131	769992	1.04	NO	17.44	0.95	17.40	17.47	25.00000	100.0		7431	4486
32	PCB-38		1443599	737552	706047	1.04	NO	17.76	0.97	17.73	17.79	25.00000	100.0		7431	4486
33	PCB-35		1455915	742028	713886	1.04	NO	18.03	0.99	18.00	18.07	25.00000	100.0		7431	4486
34	PCB-37		1441312	726221	715092	1.02	NO	18.27	1.00	18.23	18.30	28.50624	114.0		7431	4486

Quantify Sample Summary Report **MassLynx V4.2 SCN1012**

Dataset: I:\Organics Instrument\HIGHRES GCMS Completed Results Files\HR-5\5-211102A2-1108NA.qld

Last Altered: Monday, November 08, 2021 13:43:10 Eastern Standard Time
Printed: Monday, November 08, 2021 15:57:46 Eastern Standard Time

Name: 5_211102A17, Date: 02-Nov-2021, Time: 21:19:40, ID: H5_21_WDM_945, Description: 1668A-CS7-020C, Vial: Tray1:2

	Target Analyte	#Hom	Total Area	Ion1 Area	Ion2 Area	Ra	Ra Fail=Y...	RT	RRT	RT LCL	RT UCL	Conc.	%Rec	Mod.Comment	Noise 1	Noise 2
35	* PCB-54		2308016	1013441	1294575	0.78	NO	14.48	1.00	14.45	14.51	59.73466	119.5		1592	1621
36	* PCB-50/53		3844827	1688086	2156741	0.78	NO	15.69	1.08	15.66	15.73	100.00000	100.0		9826	3945
37	PCB-45/51		3673945	1601254	2072691	0.77	NO	16.10	1.11	16.07	16.14	100.00000	100.0		9826	3945
38	PCB-46		1540341	670328	870013	0.77	NO	16.27	1.12	16.24	16.30	50.00000	100.0		9826	3945
39	PCB-52		1924281	832473	1091808	0.76	NO	17.01	1.18	16.97	17.04	50.00000	100.0		9826	3945
40	PCB-73		2379679	1038203	1341476	0.77	NO	17.08	1.18	17.05	17.12	50.00000	100.0		9826	3945
41	PCB-43		1674227	738120	936107	0.79	NO	17.14	1.18	17.11	17.18	50.00000	100.0		9826	3945
42	PCB-69/49		4304681	1884809	2419872	0.78	NO	17.24	1.19	17.21	17.27	100.00000	100.0		9826	3945
43	PCB-48		1864470	809916	1054554	0.77	NO	17.44	1.20	17.40	17.47	50.00000	100.0		9826	3945
44	PCB-44/47/65		6039904	2627540	3412363	0.77	NO	17.58	1.22	17.55	17.62	150.00000	100.0		9826	3945
45	PCB-59/62/75		7455966	3258045	4197921	0.78	NO	17.75	1.23	17.72	17.78	150.00000	100.0		9826	3945
46	PCB-42		1779868	778620	1001248	0.78	NO	17.88	1.24	17.84	17.91	50.00000	100.0		9826	3945
47	PCB-41/71/40		5405550	2356006	3049544	0.77	NO	18.14	1.25	18.11	18.17	150.00000	100.0		9826	3945
48	PCB-64		2602362	1138313	1464049	0.78	NO	18.26	1.26	18.22	18.29	50.00000	100.0		9826	3945
49	* PCB-72		2612797	1155120	1457678	0.79	NO	18.66	0.86	18.63	18.70	50.00000	100.0		51026	1
50	PCB-68		2810135	1230792	1579344	0.78	NO	18.82	0.86	18.79	18.85	50.00000	100.0		51026	1
51	PCB-57		2445280	1073989	1371291	0.78	NO	19.06	0.87	19.03	19.09	50.00000	100.0		51026	1
52	PCB-58		2478133	1087963	1390169	0.78	NO	19.20	0.88	19.17	19.23	50.00000	100.0		51026	1
53	PCB-67		2873413	1269656	1603756	0.79	NO	19.28	0.88	19.25	19.32	50.00000	100.0		51026	1
54	PCB-63		2672621	1180691	1491930	0.79	NO	19.43	0.89	19.40	19.46	50.00000	100.0		51026	1
55	PCB-61/70/74/76		9960926	4381329	5579597	0.79	NO	19.63	0.90	19.59	19.66	200.00000	100.0		51026	1
56	PCB-66		2745877	1209138	1536739	0.79	NO	19.79	0.91	19.76	19.83	50.00000	100.0		51026	1
57	PCB-55		2478645	1090426	1388219	0.79	NO	19.90	0.91	19.87	19.94	50.00000	100.0		51026	1
58	PCB-56		2408767	1055576	1353191	0.78	NO	20.18	0.92	20.15	20.21	50.00000	100.0		51026	1
59	PCB-60		2529116	1105029	1424088	0.78	NO	20.30	0.93	20.27	20.33	50.00000	100.0		51026	1
60	PCB-80		2909999	1280905	1629094	0.79	NO	20.43	0.94	20.40	20.46	50.00000	100.0		51026	1
61	PCB-79		2959307	1294281	1665026	0.78	NO	21.28	0.98	21.25	21.31	50.00000	100.0		51026	1
62	PCB-78		2561619	1108819	1452800	0.76	NO	21.60	0.99	21.56	21.63	50.00000	100.0		51026	1
63	PCB-81		2518417	1098249	1420167	0.77	NO	21.85	1.00	21.81	21.88	52.87038	105.7		51026	1
64	PCB-77		2367115	1049122	1317993	0.80	NO	22.15	1.00	22.12	22.18	49.86929	99.7		51026	1
65	* PCB-104		2127385	1297356	830029	1.56	NO	17.54	1.00	17.51	17.58	55.49927	111.0		1246	3475
66	PCB-96		2013937	1228875	785063	1.57	NO	17.78	1.01	17.75	17.81	50.00000	100.0		1246	3475
67	* PCB-103		1721030	1058723	662307	1.60	NO	18.76	1.07	18.72	18.79	50.00000	100.0		36708	49283
68	PCB-94		1428507	878945	549562	1.60	NO	18.90	1.08	18.87	18.94	50.00000	100.0		36708	49283
69	PCB-95		1579790	970339	609450	1.59	NO	19.15	1.09	19.12	19.19	50.00000	100.0		36708	49283
70	PCB-100/93/102/98		6107451	3763272	2344179	1.61	NO	19.23	1.10	19.19	19.26	200.00000	100.0	NA211108MJ	36708	49283
71	PCB-88/91		3046184	1874930	1171255	1.60	NO	19.62	1.12	19.58	19.65	100.00000	100.0	NA211108MJ	36708	49283

Quantify Sample Summary Report **MassLynx V4.2 SCN1012**

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Printed: Monday, November 08, 2021 15:57:46 Eastern Standard Time

Name: 5_211102A17, Date: 02-Nov-2021, Time: 21:19:40, ID: H5_21_WDM_945, Description: 1668A-CS7-020C, Vial: Tray1:2

	Target Analyte	#Hom	Total Area	Ion1 Area	Ion2 Area	Ra	Ra Fail=Y...	RT	RRT	RT LCL	RT UCL	Conc.	%Rec	Mod.Comment	Noise 1	Noise 2
72	PCB-84		1308439	802166	506273	1.58	NO	19.76	1.13	19.73	19.80	50.00000	100.0		36708	49283
73	PCB-89		1403571	861534	542037	1.59	NO	20.01	1.14	19.98	20.05	50.00000	100.0		36708	49283
74	PCB-121		2106621	1295100	811521	1.60	NO	20.14	1.15	20.11	20.18	50.00000	100.0		36708	49283
75	PCB-92		1501866	923216	578649	1.60	NO	20.37	1.16	20.33	20.40	50.00000	100.0		36708	49283
76	PCB-113/90/101		5388423	3304132	2084291	1.59	NO	20.67	1.18	20.64	20.70	150.00000	100.0		36708	49283
77	PCB-83/99		2972591	1842794	1129797	1.63	NO	20.98	0.91	20.94	21.01	100.00000	100.0		36708	49283
78	PCB-112		2092478	1257880	834598	1.51	NO	21.07	0.91	21.03	21.10	50.00000	100.0		36708	49283
79	PCB-109/119/86/97/125/87		10734842	6574853	4159989	1.58	NO	21.25	0.92	21.22	21.29	300.00000	100.0		36708	49283
80	PCB-117/116/85/110/115		9788448	5984706	3803742	1.57	NO	21.68	0.94	21.65	21.71	250.00000	100.0	NA211108MJ	36708	49283
81	PCB-82		1282292	786707	495584	1.59	NO	21.95	0.95	21.91	21.98	50.00000	100.0		36708	49283
82	PCB-111		2160331	1323909	836422	1.58	NO	22.07	0.95	22.03	22.10	50.00000	100.0		36708	49283
83	PCB-120		2316623	1433208	883415	1.62	NO	22.31	0.96	22.27	22.34	50.00000	100.0		36708	49283
84	* PCB-108/124		4136408	2523088	1613320	1.56	NO	22.94	0.99	22.91	22.97	100.00000	100.0		7137	7227
85	PCB-107		2087409	1270125	817284	1.55	NO	23.06	1.00	23.03	23.09	50.00000	100.0		7137	7227
86	PCB-123		2064451	1264067	800384	1.58	NO	23.13	1.00	23.10	23.17	57.05420	114.1		7137	7227
87	PCB-106		2141894	1308870	833025	1.57	NO	23.21	1.00	23.17	23.24	50.00000	100.0		7137	7227
88	PCB-118		2281262	1395811	885451	1.58	NO	23.30	1.00	23.27	23.34	57.49447	115.0		7137	7227
89	PCB-122		1906076	1164679	741397	1.57	NO	23.51	1.00	23.47	23.54	50.00000	100.0		7137	7227
90	PCB-114		2341558	1433518	908040	1.58	NO	23.59	1.00	23.56	23.63	56.48081	113.0		7137	7227
91	PCB-105		2278477	1397904	880573	1.59	NO	23.95	1.00	23.92	23.99	56.99665	114.0		7137	7227
92	PCB-127		2207572	1353090	854482	1.58	NO	24.67	1.03	24.63	24.70	50.00000	100.0		7137	7227
93	PCB-126		2221031	1362403	858628	1.59	NO	25.55	1.00	25.52	25.58	58.11047	116.2		7137	7227
94	* PCB-155		2168286	1206854	961432	1.26	NO	20.53	1.00	20.50	20.57	55.23315	110.5		1962	1603
95	PCB-152		2099678	1163614	936064	1.24	NO	20.70	1.01	20.66	20.73	50.00000	100.0		1962	1603
96	PCB-150		1977109	1099852	877257	1.25	NO	20.76	1.01	20.73	20.80	50.00000	100.0		1962	1603
97	PCB-136		1993430	1109502	883928	1.26	NO	20.99	1.02	20.96	21.03	50.00000	100.0		1962	1603
98	PCB-145		1932674	1068822	863852	1.24	NO	21.13	1.03	21.10	21.17	50.00000	100.0		1962	1603
99	PCB-148		1480932	822081	658852	1.25	NO	21.86	1.07	21.83	21.90	50.00000	100.0		1962	1603
100	PCB-151/135		2793870	1551798	1242072	1.25	NO	22.22	1.08	22.18	22.25	100.00000	100.0		1962	1603
101	PCB-154		1672037	928844	743193	1.25	NO	22.30	1.09	22.26	22.33	50.00000	100.0		1962	1603
102	PCB-144		1458425	806612	651813	1.24	NO	22.50	1.10	22.47	22.54	50.00000	100.0		1962	1603
103	* PCB-147/149		2774644	1535681	1238963	1.24	NO	22.70	1.11	22.66	22.73	100.00000	100.0		5631	11330
104	PCB-134/143		2451722	1356402	1095320	1.24	NO	22.85	1.11	22.82	22.89	100.00000	100.0		5631	11330
105	PCB-139/140		2814243	1553638	1260605	1.23	NO	23.00	1.12	22.97	23.03	100.00000	100.0		5631	11330
106	PCB-131		1165737	647010	518728	1.25	NO	23.13	0.88	23.10	23.17	50.00000	100.0		5631	11330
107	PCB-142		1278906	705873	573034	1.23	NO	23.23	0.88	23.20	23.26	50.00000	100.0		5631	11330
108	PCB-132		1291428	717462	573965	1.25	NO	23.39	0.89	23.35	23.42	50.00000	100.0		5631	11330

Quantify Sample Summary Report **MassLynx V4.2 SCN1012**

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Name: 5_211102A17, Date: 02-Nov-2021, Time: 21:19:40, ID: H5_21_WDM_945, Description: 1668A-CS7-020C, Vial: Tray1:2

	Target Analyte	#Hom	Total Area	Ion1 Area	Ion2 Area	Ra	Ra Fail=Y...	RT	RRT	RT LCL	RT UCL	Conc.	%Rec	Mod.Comment	Noise 1	Noise 2
109	PCB-133		1387198	765655	621543	1.23	NO	23.57	0.89	23.53	23.60	50.00000	100.0		5631	11330
110	PCB-165		1850642	1017591	833051	1.22	NO	23.79	0.90	23.75	23.82	50.00000	100.0		5631	11330
111	PCB-146		1509999	832458	677541	1.23	NO	23.91	0.90	23.87	23.94	50.00000	100.0		5631	11330
112	PCB-161		2009997	1108955	901042	1.23	NO	23.98	0.91	23.95	24.01	50.00000	100.0		5631	11330
113	PCB-153/168		3641084	2007954	1633130	1.23	NO	24.23	0.92	24.20	24.27	100.00000	100.0		5631	11330
114	PCB-141		1399070	765421	633650	1.21	NO	24.35	0.92	24.32	24.39	50.00000	100.0		5631	11330
115	PCB-130		1267683	695887	571796	1.22	NO	24.58	0.93	24.55	24.62	50.00000	100.0		5631	11330
116	PCB-137/164		3280650	1812384	1468266	1.23	NO	24.75	0.94	24.72	24.79	100.00000	100.0	NA211108MJ	5631	11330
117	PCB-138/163/129		4104734	2252674	1852060	1.22	NO	24.91	0.94	24.88	24.94	150.00000	100.0	NA211108MS	5631	11330
118	PCB-160		2326595	1280049	1046546	1.22	NO	25.01	0.95	24.97	25.04	50.00000	100.0	NA211108MS	5631	11330
119	PCB-158		2153809	1183191	970617	1.22	NO	25.11	0.95	25.08	25.15	50.00000	100.0		5631	11330
120	PCB-128/166		3384372	1849546	1534826	1.21	NO	25.57	0.97	25.54	25.61	100.00000	100.0		5631	11330
121	PCB-159		2049917	1124877	925039	1.22	NO	26.05	0.99	26.01	26.08	50.00000	100.0		5631	11330
122	PCB-162		1916774	1054753	862021	1.22	NO	26.19	0.99	26.16	26.22	50.00000	100.0		5631	11330
123	PCB-167		2061933	1137842	924091	1.23	NO	26.43	1.00	26.40	26.47	58.44781	116.9		5631	11330
124	PCB-156/157		3969546	2181440	1788106	1.22	NO	27.07	1.00	27.04	27.11	111.79966	111.8		5631	11330
125	PCB-169		2047722	1136755	910967	1.25	NO	28.73	1.00	28.69	28.76	58.16382	116.3		5631	11330
126	* PCB-188		1704045	863328	840717	1.03	NO	23.53	1.00	23.50	23.57	55.90546	111.8		1976	2493
127	PCB-179		1720903	880212	840691	1.05	NO	23.75	1.01	23.72	23.78	50.00000	100.0		1976	2493
128	PCB-184		1763565	887570	875995	1.01	NO	23.98	1.02	23.95	24.01	50.00000	100.0		1976	2493
129	PCB-176		1639684	827719	811965	1.02	NO	24.21	1.03	24.18	24.24	50.00000	100.0		1976	2493
130	PCB-186		1604827	812154	792673	1.02	NO	24.45	1.04	24.42	24.48	50.00000	100.0		1976	2493
131	PCB-178		1163573	596191	567382	1.05	NO	25.10	1.07	25.07	25.14	50.00000	100.0		1976	2493
132	PCB-175		1221528	617488	604039	1.02	NO	25.43	1.08	25.40	25.46	50.00000	100.0		1976	2493
133	PCB-187		1349771	675208	674564	1.00	NO	25.57	1.09	25.54	25.61	50.00000	100.0		1976	2493
134	PCB-182		1205888	616948	588940	1.05	NO	25.67	1.09	25.64	25.70	50.00000	100.0		1976	2493
135	PCB-183		1292998	659539	633459	1.04	NO	25.89	1.10	25.85	25.92	50.00000	100.0		1976	2493
136	PCB-185		1243468	624841	618627	1.01	NO	25.97	1.10	25.94	26.01	50.00000	100.0		1976	2493
137	PCB-174		1146833	574867	571965	1.01	NO	26.05	1.11	26.01	26.08	50.00000	100.0		1976	2493
138	PCB-177		1156904	589904	567001	1.04	NO	26.27	1.12	26.24	26.31	50.00000	100.0		1976	2493
139	PCB-181		1180556	594152	586405	1.01	NO	26.47	0.88	26.43	26.50	50.00000	100.0		1976	2493
140	PCB-171/173		2213579	1124362	1089217	1.03	NO	26.60	0.89	26.57	26.63	100.00000	100.0		1976	2493
141	PCB-172		1155234	585843	569391	1.03	NO	27.39	0.91	27.35	27.42	50.00000	100.0		1976	2493
142	PCB-192		1440483	733813	706670	1.04	NO	27.54	0.92	27.51	27.58	50.00000	100.0		1976	2493
143	PCB-180/193		2782573	1404503	1378070	1.02	NO	27.71	0.92	27.68	27.75	100.00000	100.0		1976	2493
144	PCB-191		1635660	824579	811081	1.02	NO	27.92	0.93	27.88	27.95	50.00000	100.0		1976	2493
145	PCB-170		1104023	562023	542000	1.04	NO	28.41	0.95	28.38	28.45	50.00000	100.0		1976	2493

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	Target Analyte	#Hom	Total Area	Ion1 Area	Ion2 Area	Ra	Ra Fail=Y...	RT	RRT	RT LCL	RT UCL	Conc.	%Rec	Mod.Comment	Noise 1	Noise 2
146	PCB-190		1743337	878796	864541	1.02	NO	28.69	0.96	28.66	28.73	50.00000	100.0		1976	2493
147	* PCB-189		1711686	870877	840809	1.04	NO	30.01	1.00	29.97	30.04	54.63278	109.3		2480	1929
148	* PCB-202		2228741	1063671	1165070	0.91	NO	26.30	1.00	26.27	26.33	81.14189	108.2		1388	1532
149	PCB-201		2364396	1122150	1242247	0.90	NO	26.77	1.02	26.74	26.80	75.00000	100.0		1388	1532
150	PCB-204		2289253	1104677	1184576	0.93	NO	27.11	1.03	27.08	27.14	75.00000	100.0		1388	1532
151	PCB-197		2284283	1078719	1205564	0.89	NO	27.23	1.04	27.20	27.26	75.00000	100.0		1388	1532
152	PCB-200		2347151	1128656	1218495	0.93	NO	27.33	1.04	27.29	27.36	75.00000	100.0		1388	1532
153	PCB-198/199		3249998	1540999	1708998	0.90	NO	28.72	0.92	28.68	28.75	150.00000	100.0		1388	1532
154	PCB-196		1633320	773309	860011	0.90	NO	29.07	0.93	29.03	29.10	75.00000	100.0		1388	1532
155	PCB-203		1807987	852659	955328	0.89	NO	29.16	0.93	29.13	29.20	75.00000	100.0		1388	1532
156	* PCB-195		1588270	751472	836799	0.90	NO	29.89	0.95	29.86	29.93	75.00000	100.0		2157	2097
157	PCB-194		1708496	806793	901703	0.89	NO	31.11	0.99	31.07	31.14	75.00000	100.0		2157	2097
158	PCB-205		2074977	984708	1090269	0.90	NO	31.39	1.00	31.35	31.42	81.98185	109.3		2157	2097
159	* PCB-208		2098373	926738	1171635	0.79	NO	29.71	1.00	29.68	29.75	75.92187	101.2		1526	2052
160	PCB-207		2020838	892221	1128617	0.79	NO	30.20	1.02	30.17	30.23	75.00000	100.0		1526	2052
161	PCB-206		1404745	619239	785505	0.79	NO	32.46	1.00	32.43	32.49	75.23019	100.3		1526	2052
162	* PCB-209		1812848	981475	831373	1.18	NO	33.57	1.00	33.54	33.61	82.97355	110.6		478	487
163	13C-PCB-31		4748543	2443126	2305417	1.06	NO	15.83	0.87	15.80	15.86	105.45065	105.5		50142	41324
164	13C-PCB-95		2211379	1354415	856964	1.58	NO	19.14	1.09	19.10	19.17	103.55969	103.6		4700	4000
165	13C-PCB-153		2863651	1612495	1251156	1.29	NO	24.21	1.18	24.18	24.24	101.19437	101.2		5522	6328
166	13C-PCB-28		5272520	2713367	2559153	1.06	NO	16.00	0.94	15.96	16.03	99.02175	99.0		50142	41324
167	13C-PCB-111		2984024	1835756	1148268	1.60	NO	22.05	1.07	22.02	22.08	103.69077	103.7		4700	4000
168	13C-PCB-178		2076668	1049917	1026751	1.02	NO	25.09	1.01	25.06	25.12	97.46749	97.5		2831	2483
169	13C-PCB-1		6227103	4693325	1533778	3.06	NO	8.92	0.75	8.89	8.96	91.65261	91.7		4539	22581
170	13C-PCB-3		5948181	4495715	1452466	3.10	NO	10.45	0.88	10.42	10.49	98.44498	98.4		4539	22581
171	13C-PCB-4		3836136	2347282	1488855	1.58	NO	10.62	0.89	10.59	10.65	90.18748	90.2		12673	4192
172	13C-PCB-15		5620471	3438261	2182210	1.58	NO	14.31	1.20	14.27	14.34	105.86701	105.9		22265	6414
173	13C-PCB-19		2626114	1358257	1267857	1.07	NO	12.61	1.06	12.58	12.64	82.60623	82.6		40971	18753
174	13C-PCB-37		4538716	2336703	2202013	1.06	NO	18.26	1.07	18.22	18.29	103.64053	103.6		50142	41324
175	13C-PCB-54		3617772	1607571	2010201	0.80	NO	14.47	0.85	14.44	14.51	70.21451	70.2		9164	5517
176	13C-PCB-81		3930181	1731261	2198920	0.79	NO	21.83	1.06	21.79	21.86	100.33241	100.3		8845	5705
177	13C-PCB-77		4088405	1814545	2273859	0.80	NO	22.14	1.07	22.11	22.17	102.58357	102.6		8845	5705
178	13C-PCB-104		3324524	2033804	1290721	1.58	NO	17.52	1.03	17.49	17.56	67.66075	67.7		2018	2023
179	13C-PCB-123		3283487	2019751	1263737	1.60	NO	23.12	1.12	23.09	23.15	95.68319	95.7		5892	5019
180	13C-PCB-118		3388381	2075773	1312608	1.58	NO	23.29	1.13	23.26	23.32	94.09409	94.1		5892	5019
181	13C-PCB-114		3370535	2073591	1296945	1.60	NO	23.59	0.95	23.56	23.63	102.68436	102.7		5892	5019
182	13C-PCB-105		3317480	2041941	1275539	1.60	NO	23.94	0.96	23.91	23.98	102.09050	102.1		5892	5019

Quantify Sample Summary Report **MassLynx V4.2 SCN1012**

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Last Altered: Monday, November 08, 2021 13:43:10 Eastern Standard Time
Printed: Monday, November 08, 2021 15:57:46 Eastern Standard Time

Name: 5_211102A17, Date: 02-Nov-2021, Time: 21:19:40, ID: H5_21_WDM_945, Description: 1668A-CS7-020C, Vial: Tray1:2

	Target Analyte	#Hom	Total Area	Ion1 Area	Ion2 Area	Ra	Ra Fail=Y...	RT	RRT	RT LCL	RT UCL	Conc.	%Rec	Mod.Comment	Noise 1	Noise 2
183	13C-PCB-126		3153534	1940050	1213484	1.60	NO	25.54	1.03	25.50	25.57	107.04139	107.0		5892	5019
184	13C-PCB-155		3710488	2072077	1638411	1.26	NO	20.52	0.99	20.49	20.56	79.48396	79.5		2254	2275
185	13C-PCB-167		3195488	1774884	1420604	1.25	NO	26.42	1.06	26.39	26.45	98.95996	99.0		5522	6328
186	13C-PCB-156/157		6218193	3474139	2744055	1.27	NO	27.06	1.09	27.03	27.09	199.66042	99.8		5522	6328
187	13C-PCB-169		3224003	1801700	1422303	1.27	NO	28.72	1.15	28.68	28.75	110.19262	110.2		5522	6328
188	13C-PCB-188		3232326	1641246	1591080	1.03	NO	23.52	0.94	23.49	23.55	85.23368	85.2		2831	2483
189	13C-PCB-189		3105129	1593761	1511368	1.05	NO	29.99	0.96	29.96	30.03	104.85099	104.9		2935	2890
190	13C-PCB-202		2547978	1213896	1334082	0.91	NO	26.29	1.06	26.25	26.32	86.93544	86.9		1031	1771
191	13C-PCB-205		2763122	1298514	1464608	0.89	NO	31.37	1.01	31.34	31.41	95.53935	95.5		2889	2576
192	13C-PCB-208		2263602	1000286	1263316	0.79	NO	29.71	0.96	29.68	29.75	98.18074	98.2		1653	1007
193	13C-PCB-206		1541917	680329	861588	0.79	NO	32.45	1.04	32.41	32.48	95.41457	95.4		1653	1007
194	13C-PCB-209		2158943	1172116	986827	1.19	NO	33.56	1.08	33.53	33.59	83.76203	83.8		688	652
195	13C-PCB-9		6320228	3881082	2439146	1.59	NO	11.88	0.48	11.85	11.92	100.00000	100.0		12673	4192
196	13C-PCB-52		3020198	1356688	1663509	0.82	NO	17.00	0.68	16.96	17.03	100.00000	100.0		7637	5171
197	13C-PCB-101		2528831	1556030	972802	1.60	NO	20.66	0.83	20.63	20.69	100.00000	100.0		4700	4000
198	13C-PCB-138		2548596	1425326	1123270	1.27	NO	24.90	0.00	24.86	24.93	100.00000	100.0		5522	6328
199	13C-PCB-194		1942330	916281	1026049	0.89	NO	31.09	1.25	31.06	31.13	100.00000	100.0		2889	2576
200	Total MoCB-F1	11		4205225								565959.87410			3135	
201	Total DiCB-F1	8		6485533								98505.41519			2655	
202	Total DiCB-F2	6		5286678								117416.98928			23294	
203	Total TrCB-F1	1		454479								28.32644			2245	
204	Total TrCB-F2	7		4538366								25932.57546			4313	
205	Total TrCB-F3	20		12937366								685480.80938			7431	
206	Total TeCB-F2	1		1013672								59.73466			1592	
207	Total TeCB-F3	15		19422211								2381.15426			9826	
208	Total TeCB-F4	23		22125974								901130.92648			51026	
209	Total PeCB-F3	2		2526230								105.49927			1246	
210	Total PeCB-F4	20		35050348								202922.37472			36708	
211	Total PeCB-F5	34		15300670								2115535.407...			7137	
212	Total HxCB-F4	14		9758740								1910.40007			1962	
213	Total HxCB-F5	37		29310620								1271969.317...			5631	
214	Total HpCB-F5	29		16096921								395322.91897			1976	
215	Total HpCB-F6	1		1175081								54.63278			2480	
216	Total OcCB-F5	18		8668663								8477.97155			1388	
217	Total OcCB-F6	8		2647330								403702.81408			2157	
218	Total NoCB-F6	3		2438198								226.15207			1526	
219	Total DeCB-F7	1		981475								82.97355			478	

Quantify Sample Summary Report **MassLynx V4.2 SCN1012**

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Name: 5_211102A17, Date: 02-Nov-2021, Time: 21:19:40, ID: H5_21_WDM_945, Description: 1668A-CS7-020C, Vial: Tray1:2

	Target Analyte	#Hom	Total Area	Ion1 Area	Ion2 Area	Ra	Ra Fail=Y...	RT	RRT	RT LCL	RT UCL	Conc.	%Rec	Mod.Comment	Noise 1	Noise 2
220	Total 13C-MoCB-F1	2		9189040								190.09758			4539	
221	Total 13C-DiCB-F1	3		6240609								190.77514			12673	
222	Total 13C-DiCB-F2	1		6779730								105.86701			22265	
223	Total 13C-TrCB-F1	1		1445912								82.60623			40971	
224	Total 13C-TrCB-F3	3		7508954								308.11293			50142	
225	Total 13C-TeCB-F2	1		1607571								70.21451			9164	
226	Total 13C-TeCB-F3	5		1398051								103.02545			7637	
227	Total 13C-TeCB-F4	2		3613469								202.91598			8845	
228	Total 13C-PeCB-F3	1		2036087								67.66075			2018	
229	Total 13C-PeCB-F4	7		4761008								310.17642			4700	
230	Total 13C-PeCB-F5	5		10406702								501.59353			5892	
231	Total 13C-HxCB-F4	1		2083521								79.48396			2254	
232	Total 13C-HxCB-F5	15		10177485								639.21746			5522	
233	Total 13C-HpCB-F5	2		2740343								182.70118			2831	
234	Total 13C-HpCB-F6	1		1778355								104.85099			2935	
235	Total 13C-OcCB-F5	1		1223180								86.93544			1031	
236	Total 13C-OcCB-F6	10		2279706								209.44567			2889	
237	Total 13C-NoCB-F6	2		1683127								193.59531			1653	
238	Total 13C-DeCB-F7	1		1172116								83.76203			688	
239	Lockmass F1			0											12905...	
240	Lockmass F2			0											681167	
241	Lockmass F3			0											12872...	
242	Lockmass F4			0											630676	
243	Lockmass F5			0											230247	
244	Lockmass F6			0											250458	
245	Lockmass F7			0											43014	

Quantify Sample Summary Report **MassLynx V4.2 SCN1012**

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Last Altered: Monday, November 08, 2021 13:43:10 Eastern Standard Time
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Name: 5_211102A22, Date: 03-Nov-2021, Time: 00:48:49, ID: WG3603564-1, Description: MB, Vial: Tray1:18

	Target Analyte	#Hom	Total Area	Ion1 Area	Ion2 Area	Ra	Ra Fail=Y...	RT	RRT	RT LCL	RT UCL	Conc.	%Rec	Mod.Comment	Noise 1	Noise 2
1	* PCB-1		1163	835	328	2.54	YES	8.91	1.00	8.88	8.94	10.15223		NA211108MA	1512	1724
2	PCB-2		1152	933	219	4.26	YES	10.33	0.99	10.29	10.36	10.60830		NA211108MA	1512	1724
3	PCB-3		3416	3111	305	10.19	YES	10.42	1.00	10.39	10.46	29.22461		NA211108MA	1512	1724
4	*PCB-4						YES								2497	12092
5	PCB-10						YES								2497	12092
6	PCB-9						YES								2497	12092
7	PCB-7						YES								2497	12092
8	PCB-6						YES								2497	12092
9	PCB-5						YES								2497	12092
10	PCB-8						YES								2497	12092
11	* PCB-14						YES								4592	14653
12	PCB-11						YES								4592	14653
13	PCB-13/12						YES								4592	14653
14	PCB-15						YES								4592	14653
15	* PCB-19						YES								2594	2539
16	* PCB-30/18						YES								2450	1820
17	PCB-17						YES								2450	1820
18	PCB-27						YES								2450	1820
19	PCB-24						YES								2450	1820
20	PCB-16						YES								2450	1820
21	PCB-32		338	149	189	0.79	YES	14.54	1.15	14.50	14.57	1.63190		NA211108MA	2450	1820
22	* PCB-34						YES								3193	3474
23	PCB-23						YES								3193	3474
24	PCB-29/26						YES								3193	3474
25	PCB-25						YES								3193	3474
26	PCB-31		1141	522	619	0.84	YES	15.86	0.87	15.83	15.89	5.17069		NA211108MA	3193	3474
27	PCB-28/20						YES								3193	3474
28	PCB-21/33		737	258	479	0.54	YES	16.15	0.88	16.12	16.19	3.40612		NA211108MA	3193	3474
29	PCB-22						YES								3193	3474
30	PCB-36						YES								3193	3474
31	PCB-39						YES								3193	3474
32	PCB-38						YES								3193	3474
33	PCB-35						YES								3193	3474
34	PCB-37		1175	571	604	0.95	NO	18.29	1.00	18.25	18.32	5.65371		NA211108MA	3193	3474
35	* PCB-54						YES								1049	1827
36	* PCB-50/53						YES								1218	1527
37	PCB-45/51						YES								1218	1527

Quantify Sample Summary Report **MassLynx V4.2 SCN1012**

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Name: 5_211102A22, Date: 03-Nov-2021, Time: 00:48:49, ID: WG3603564-1, Description: MB, Vial: Tray1:18

	Target Analyte	#Hom	Total Area	Ion1 Area	Ion2 Area	Ra	Ra Fail=Y...	RT	RRT	RT LCL	RT UCL	Conc.	%Rec	Mod.Comment	Noise 1	Noise 2
38	PCB-46						YES								1218	1527
39	PCB-52		655	214	441	0.48	YES	17.00	1.18	16.96	17.03	3.33011		NA211108MA	1218	1527
40	PCB-73						YES								1218	1527
41	PCB-43						YES								1218	1527
42	PCB-69/49		459	169	290	0.58	YES	17.27	1.19	17.24	17.30	2.08388		NA211108MA	1218	1527
43	PCB-48						YES								1218	1527
44	PCB-44/47/65		1238	306	932	0.33	YES	17.58	1.22	17.55	17.62	6.01153			1218	1527
45	PCB-59/62/75						YES								1218	1527
46	PCB-42						YES								1218	1527
47	PCB-41/71/40						YES								1218	1527
48	PCB-64						YES								1218	1527
49	* PCB-72						YES								1467	2118
50	PCB-68						YES								1467	2118
51	PCB-57						YES								1467	2118
52	PCB-58						YES								1467	2118
53	PCB-67						YES								1467	2118
54	PCB-63						YES								1467	2118
55	PCB-61/70/74/76		1476	701	774	0.91	YES	19.61	0.90	19.57	19.64	5.79411		NA211108MA	1467	2118
56	PCB-66		594	262	332	0.79	NO	19.78	0.91	19.75	19.82	2.11421		NA211108MA	1467	2118
57	PCB-55						YES								1467	2118
58	PCB-56						YES								1467	2118
59	PCB-60						YES								1467	2118
60	PCB-80						YES								1467	2118
61	PCB-79						YES								1467	2118
62	PCB-78						YES								1467	2118
63	PCB-81						YES								1467	2118
64	PCB-77						YES								1467	2118
65	* PCB-104						YES								1145	2337
66	PCB-96						YES								1145	2337
67	* PCB-103						YES								1275	2723
68	PCB-94						YES								1275	2723
69	PCB-95		570	282	288	0.98	YES	19.16	1.09	19.13	19.20	2.93123		NA211108MB	1275	2723
70	PCB-100/93/102/98						YES								1275	2723
71	PCB-88/91						YES								1275	2723
72	PCB-84						YES								1275	2723
73	PCB-89						YES								1275	2723
74	PCB-121						YES								1275	2723

Quantify Sample Summary Report **MassLynx V4.2 SCN1012**

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Name: 5_211102A22, Date: 03-Nov-2021, Time: 00:48:49, ID: WG3603564-1, Description: MB, Vial: Tray1:18

	Target Analyte	#Hom	Total Area	Ion1 Area	Ion2 Area	Ra	Ra Fail=Y...	RT	RRT	RT LCL	RT UCL	Conc.	%Rec	Mod.Comment	Noise 1	Noise 2
75	PCB-92						YES								1275	2723
76	PCB-113/90/101						YES								1275	2723
77	PCB-83/99		522	293	230	1.28	YES	20.97	0.91	20.93	21.00	2.85511		NA211108MB	1275	2723
78	PCB-112						YES								1275	2723
79	PCB-109/119/86/97/125/87						YES								1275	2723
80	PCB-117/116/85/110/115		1033	562	471	1.19	YES	21.73	0.94	21.70	21.77	4.28741		NA211108MJ	1275	2723
81	PCB-82						YES								1275	2723
82	PCB-111						YES								1275	2723
83	PCB-120						YES								1275	2723
84	* PCB-108/124						YES								1294	2898
85	PCB-107						YES								1294	2898
86	PCB-123						YES								1294	2898
87	PCB-106						YES								1294	2898
88	PCB-118		1030	641	389	1.65	NO	23.28	1.00	23.24	23.31	3.73175		NA211108MB	1294	2898
89	PCB-122						YES								1294	2898
90	PCB-114						YES								1294	2898
91	PCB-105		768	286	482	0.59	YES	23.93	1.00	23.90	23.96	2.59759		NA211108MB	1294	2898
92	PCB-127						YES								1294	2898
93	PCB-126						YES								1294	2898
94	* PCB-155						YES								813	957
95	PCB-152						YES								813	957
96	PCB-150						YES								813	957
97	PCB-136						YES								813	957
98	PCB-145						YES								813	957
99	PCB-148						YES								813	957
100	PCB-151/135						YES								813	957
101	PCB-154						YES								813	957
102	PCB-144						YES								813	957
103	* PCB-147/149		435	232	204	1.14	NO	22.67	1.11	22.64	22.71	2.03219		NA211108MB	1032	792
104	PCB-134/143						YES								1032	792
105	PCB-139/140						YES								1032	792
106	PCB-131						YES								1032	792
107	PCB-142						YES								1032	792
108	PCB-132						YES								1032	792
109	PCB-133						YES								1032	792
110	PCB-165						YES								1032	792
111	PCB-146						YES								1032	792

Quantify Sample Summary Report **MassLynx V4.2 SCN1012**

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Name: 5_211102A22, Date: 03-Nov-2021, Time: 00:48:49, ID: WG3603564-1, Description: MB, Vial: Tray1:18

	Target Analyte	#Hom	Total Area	Ion1 Area	Ion2 Area	Ra	Ra Fail=Y...	RT	RRT	RT LCL	RT UCL	Conc.	%Rec	Mod.Comment	Noise 1	Noise 2
112	PCB-161						YES								1032	792
113	PCB-153/168		374	179	195	0.92	YES	24.21	0.92	24.18	24.24	1.33170		NA211108MB	1032	792
114	PCB-141						YES								1032	792
115	PCB-130						YES								1032	792
116	PCB-137/164						YES								1032	792
117	PCB-138/163/129		759	368	390	0.94	YES	24.89	0.94	24.85	24.92	3.59162			1032	792
118	PCB-160						YES								1032	792
119	PCB-158						YES								1032	792
120	PCB-128/166						YES								1032	792
121	PCB-159						YES								1032	792
122	PCB-162						YES								1032	792
123	PCB-167						YES								1032	792
124	PCB-156/157						YES								1032	792
125	PCB-169						YES								1032	792
126	* PCB-188						YES								924	923
127	PCB-179						YES								924	923
128	PCB-184						YES								924	923
129	PCB-176						YES								924	923
130	PCB-186						YES								924	923
131	PCB-178						YES								924	923
132	PCB-175						YES								924	923
133	PCB-187						YES								924	923
134	PCB-182						YES								924	923
135	PCB-183						YES								924	923
136	PCB-185						YES								924	923
137	PCB-174						YES								924	923
138	PCB-177						YES								924	923
139	PCB-181						YES								924	923
140	PCB-171/173						YES								924	923
141	PCB-172						YES								924	923
142	PCB-192						YES								924	923
143	PCB-180/193						YES								924	923
144	PCB-191						YES								924	923
145	PCB-170						YES								924	923
146	PCB-190						YES								924	923
147	* PCB-189						YES								769	603
148	* PCB-202						YES								758	754

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Name: 5_211102A22, Date: 03-Nov-2021, Time: 00:48:49, ID: WG3603564-1, Description: MB, Vial: Tray1:18

	Target Analyte	#Hom	Total Area	Ion1 Area	Ion2 Area	Ra	Ra Fail=Y...	RT	RRT	RT LCL	RT UCL	Conc.	%Rec	Mod.Comment	Noise 1	Noise 2
149	PCB-201						YES								758	754
150	PCB-204						YES								758	754
151	PCB-197						YES								758	754
152	PCB-200						YES								758	754
153	PCB-198/199						YES								758	754
154	PCB-196						YES								758	754
155	PCB-203						YES								758	754
156	* PCB-195						YES								528	635
157	PCB-194		292	175	118	1.48	YES	31.08	0.99	31.05	31.11	1.55350		NA211108MB	528	635
158	PCB-205						YES								528	635
159	* PCB-208						YES								1135	2128
160	PCB-207						YES								1135	2128
161	PCB-206						YES								1135	2128
162	* PCB-209		259	136	123	1.10	NO	33.56	1.00	33.53	33.59	1.37062		NA211108MA	271	320
163	13C-PCB-31						YES								58608	22994
164	13C-PCB-95						YES								2715	2279
165	13C-PCB-153		2069	1200	870	1.38	NO	24.18	1.18	24.15	24.22	9.47229	0.2		3330	4412
166	13C-PCB-28		316494	154792	161702	0.96	NO	16.01	0.94	15.97	16.04	848.55125	21.2		58608	22994
167	13C-PCB-111		391704	239144	152560	1.57	NO	22.04	1.07	22.01	22.07	1690.21695	42.3		2715	2279
168	13C-PCB-178		357256	177000	180257	0.98	NO	25.08	1.01	25.05	25.11	1740.53004	43.5		2639	1735
169	13C-PCB-1		400712	304667	96045	3.17	NO	8.90	0.75	8.86	8.93	926.92154	23.2		2952	26504
170	13C-PCB-3		390907	300906	90001	3.34	NO	10.44	0.88	10.40	10.47	1016.79746	25.4		2952	26504
171	13C-PCB-4		268563	164239	104324	1.57	NO	10.59	0.89	10.56	10.63	992.31680	24.8		12806	4852
172	13C-PCB-15		540401	322888	217513	1.48	NO	14.33	1.21	14.30	14.37	1599.76313	40.0		18386	7796
173	13C-PCB-19		221669	115618	106051	1.09	NO	12.60	1.06	12.56	12.63	1095.86199	27.4		34938	20188
174	13C-PCB-37		746554	386182	360372	1.07	NO	18.27	1.08	18.23	18.30	2433.64842	60.8		58608	22994
175	13C-PCB-54		373623	165081	208542	0.79	NO	14.46	0.85	14.43	14.50	1035.18890	25.9		7646	4767
176	13C-PCB-81		959770	418915	540855	0.77	NO	21.82	1.06	21.78	21.85	3042.58404	76.1		10618	6938
177	13C-PCB-77		1046969	458106	588863	0.78	NO	22.12	1.07	22.09	22.16	3262.15410	81.6		10618	6938
178	13C-PCB-104		519410	319011	200399	1.59	NO	17.51	1.03	17.48	17.55	1312.69706	32.8		1872	2119
179	13C-PCB-123		913668	559496	354172	1.58	NO	23.10	1.12	23.06	23.13	3306.24797	82.7		4241	5247
180	13C-PCB-118		942751	586092	356659	1.64	NO	23.27	1.13	23.23	23.30	3250.97593	81.3		4241	5247
181	13C-PCB-114		914588	561726	352862	1.59	NO	23.57	0.95	23.53	23.60	3460.01305	86.5		4241	5247
182	13C-PCB-105		981428	603479	377948	1.60	NO	23.92	0.96	23.88	23.95	3750.43829	93.8		4241	5247
183	13C-PCB-126		1060307	659218	401088	1.64	NO	25.51	1.03	25.48	25.55	4469.22753	111.7		4241	5247
184	13C-PCB-155		721352	398778	322574	1.24	NO	20.50	0.99	20.47	20.54	1918.85658	48.0		1746	2043
185	13C-PCB-167		1073246	604518	468729	1.29	NO	26.41	1.06	26.37	26.44	3450.09177	86.3		3330	4412

Quantify Sample Summary Report **MassLynx V4.2 SCN1012**

Dataset: I:\Organics Instrument\HIGHRES GCMS Completed Results Files\HR-5\5-211102A2-1108NA.qld

Last Altered: Monday, November 08, 2021 13:43:10 Eastern Standard Time
Printed: Monday, November 08, 2021 15:57:46 Eastern Standard Time

Name: 5_211102A22, Date: 03-Nov-2021, Time: 00:48:49, ID: WG3603564-1, Description: MB, Vial: Tray1:18

	Target Analyte	#Hom	Total Area	Ion1 Area	Ion2 Area	Ra	Ra Fail=Y...	RT	RRT	RT LCL	RT UCL	Conc.	%Rec	Mod.Comment	Noise 1	Noise 2
186	13C-PCB-156/157		2109177	1190026	919151	1.29	NO	27.04	1.09	27.00	27.07	7029.90651	87.9		3330	4412
187	13C-PCB-169		1238591	721461	517130	1.40	NO	28.70	1.15	28.67	28.74	4394.34110	109.9		3330	4412
188	13C-PCB-188		838314	429059	409255	1.05	NO	23.50	0.94	23.46	23.53	2294.62523	57.4		2639	1735
189	13C-PCB-189		1119305	576129	543176	1.06	NO	29.96	0.96	29.93	30.00	3923.28849	98.1		3689	1795
190	13C-PCB-202		789688	376111	413577	0.91	NO	26.26	1.06	26.23	26.30	2796.82719	69.9		1311	1736
191	13C-PCB-205		965086	454440	510647	0.89	NO	31.35	1.01	31.31	31.38	3191.02495	79.8		1798	1493
192	13C-PCB-208		772496	342733	429762	0.80	NO	29.69	0.96	29.65	29.72	3204.08600	80.1		1339	1666
193	13C-PCB-206		538485	236971	301513	0.79	NO	32.42	1.04	32.39	32.45	3186.46314	79.7		1339	1666
194	13C-PCB-209		747250	407067	340183	1.20	NO	33.53	1.08	33.50	33.56	2772.38585	69.3		598	405
195	13C-PCB-9		1608575	984660	623915	1.58	NO	11.85	0.48	11.82	11.89	25.45121	0.6		12806	4852
196	13C-PCB-52		846243	374597	471647	0.79	NO	16.99	0.68	16.95	17.02	28.01947	0.7		8456	4836
197	13C-PCB-101		814579	496364	318215	1.56	NO	20.65	0.83	20.62	20.69	32.21167	0.8		2715	2279
198	13C-PCB-138		982092	550709	431383	1.28	NO	24.87	0.00	24.84	24.91	38.53463	1.0		3330	4412
199	13C-PCB-194		812458	379726	432732	0.88	NO	31.07	1.25	31.03	31.10	41.82906	1.0		1798	1493
200	Total MoCB-F1	3		4878								49.98514			1512	
201	Total DiCB-F1			0											2497	
202	Total DiCB-F2			0											4592	
203	Total TrCB-F1			0											2594	
204	Total TrCB-F2	1		149								1.63190			2450	
205	Total TrCB-F3	3		1351								14.23052			3193	
206	Total TeCB-F2			0											1049	
207	Total TeCB-F3	3		689								11.42552			1218	
208	Total TeCB-F4	2		963								7.90832			1467	
209	Total PeCB-F3			0											1145	
210	Total PeCB-F4	3		1137								10.07374			1275	
211	Total PeCB-F5	4		3784								22818.35075			1294	
212	Total HxCB-F4			0											813	
213	Total HxCB-F5	3		779								6.95552			1032	
214	Total HpCB-F5			0											924	
215	Total HpCB-F6			0											769	
216	Total OcCB-F5	1		75								399.09889			758	
217	Total OcCB-F6	1		175								1.55350			528	
218	Total NoCB-F6			0											1135	
219	Total DeCB-F7	1		136								1.37062			271	
220	Total 13C-MoCB-F1	2		605573								1943.71900			2952	
221	Total 13C-DiCB-F1	2		1148898								1017.76801			12806	
222	Total 13C-DiCB-F2	1		322888								1599.76313			18386	

Quantify Sample Summary Report **MassLynx V4.2 SCN1012**

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Name: 5_211102A22, Date: 03-Nov-2021, Time: 00:48:49, ID: WG3603564-1, Description: MB, Vial: Tray1:18

	Target Analyte	#Hom	Total Area	Ion1 Area	Ion2 Area	Ra	Ra Fail=Y...	RT	RRT	RT LCL	RT UCL	Conc.	%Rec	Mod.Comment	Noise 1	Noise 2
223	Total 13C-TrCB-F1	1		189652								1095.86199			34938	
224	Total 13C-TrCB-F3	2		540974								3282.19967			58608	
225	Total 13C-TeCB-F2	1		165081								1035.18890			7646	
226	Total 13C-TeCB-F3	2		375570								28.10104			8456	
227	Total 13C-TeCB-F4	2		884376								6304.73814			10618	
228	Total 13C-PeCB-F3	1		331685								1312.69706			1872	
229	Total 13C-PeCB-F4	10		742557								1723.88087			2715	
230	Total 13C-PeCB-F5	5		3215461								18236.90277			4241	
231	Total 13C-HxCB-F4	1		401232								1918.85658			1746	
232	Total 13C-HxCB-F5	11		3095605								14932.07343			3330	
233	Total 13C-HpCB-F5	2		625539								4035.15527			2639	
234	Total 13C-HpCB-F6	1		839120								3923.28849			3689	
235	Total 13C-OcCB-F5	1		427125								2796.82719			1311	
236	Total 13C-OcCB-F6	5		856663								3237.67763			1798	
237	Total 13C-NoCB-F6	2		579705								6390.54913			1339	
238	Total 13C-DeCB-F7	1		407067								2772.38585			598	
239	Lockmass F1			0											12538...	
240	Lockmass F2			0											580280	
241	Lockmass F3			0											12181...	
242	Lockmass F4			0											736251	
243	Lockmass F5			0											210088	
244	Lockmass F6			0											184817	
245	Lockmass F7			0											42719	

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Name: 5_211102A24, Date: 03-Nov-2021, Time: 02:13:14, ID: L2625428-1, Description: SAMPLE, Vial: Tray1:19

	Target Analyte	#Hom	Total Area	Ion1 Area	Ion2 Area	Ra	Ra Fail=Y...	RT	RRT	RT LCL	RT UCL	Conc.	%Rec	Mod.Comment	Noise 1	Noise 2
1	* PCB-1		2316	1845	471	3.92	YES	8.91	1.00	8.88	8.94	7.48909		NA211108MB	1173	1851
2	PCB-2		1664	1243	422	2.95	NO	10.31	0.99	10.28	10.35	5.24150		NA211108MB	1173	1851
3	PCB-3		4709	3965	745	5.32	YES	10.42	1.00	10.39	10.46	12.76253		NA211108MB	1173	1851
4	*PCB-4						YES								2467	9537
5	PCB-10						YES								2467	9537
6	PCB-9						YES								2467	9537
7	PCB-7						YES								2467	9537
8	PCB-6						YES								2467	9537
9	PCB-5						YES								2467	9537
10	PCB-8		4454	2236	2219	1.01	YES	12.40	1.17	12.37	12.43	7.32645		NA211108MA	2467	9537
11	* PCB-14						YES								4804	19705
12	PCB-11		47171	26634	20536	1.30	YES	13.92	0.97	13.89	13.95	90.62388		NA211108MB	4804	19705
13	PCB-13/12						YES								4804	19705
14	PCB-15		6555	3133	3422	0.92	YES	14.31	1.00	14.27	14.34	10.85494		NA211108MB	4804	19705
15	* PCB-19		809	414	396	1.05	NO	12.61	1.00	12.58	12.64	3.72123		NA211108MA	2562	2182
16	* PCB-30/18		6699	3491	3208	1.09	NO	13.72	1.09	13.68	13.75	11.86250			3281	2874
17	PCB-17		3132	1793	1339	1.34	YES	13.96	1.11	13.92	13.99	7.12890			3281	2874
18	PCB-27						YES								3281	2874
19	PCB-24						YES								3281	2874
20	PCB-16		2305	1071	1235	0.87	YES	14.25	1.13	14.22	14.28	5.50678		NA211108MB	3281	2874
21	PCB-32		2414	1197	1216	0.98	NO	14.54	1.15	14.50	14.57	3.41630		NA211108MB	3281	2874
22	* PCB-34						YES								3222	3663
23	PCB-23						YES								3222	3663
24	PCB-29/26		3451	1642	1809	0.91	NO	15.52	0.85	15.48	15.55	5.09528		NA211108MB	3222	3663
25	PCB-25		1979	920	1059	0.87	YES	15.65	0.86	15.62	15.69	2.42938		NA211108MB	3222	3663
26	PCB-31		19533	9983	9550	1.05	NO	15.83	0.87	15.80	15.86	25.93343			3222	3663
27	PCB-28/20		20308	10452	9856	1.06	NO	16.00	0.88	15.96	16.03	31.02181		NA211108MB	3222	3663
28	PCB-21/33		4344	2484	1860	1.34	YES	16.15	0.89	16.12	16.19	5.88659		NA211108MB	3222	3663
29	PCB-22		8554	4257	4297	0.99	NO	16.38	0.90	16.35	16.41	12.15329			3222	3663
30	PCB-36		343	183	159	1.15	NO	17.21	0.94	17.18	17.24	0.45381			3222	3663
31	PCB-39						YES								3222	3663
32	PCB-38						YES								3222	3663
33	PCB-35		2444	1214	1230	0.99	NO	18.01	0.99	17.98	18.05	3.64149		NA211108MB	3222	3663
34	PCB-37		6018	3025	2993	1.01	NO	18.26	1.00	18.22	18.29	8.45477			3222	3663
35	* PCB-54						YES								842	1678
36	* PCB-50/53		1632	746	886	0.84	NO	15.67	1.08	15.64	15.71	2.97316		NA211108MB	1770	1819
37	PCB-45/51		3394	1588	1806	0.88	NO	16.09	1.11	16.06	16.13	6.46994			1770	1819

Quantify Sample Summary Report **MassLynx V4.2 SCN1012**

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Name: 5_211102A24, Date: 03-Nov-2021, Time: 02:13:14, ID: L2625428-1, Description: SAMPLE, Vial: Tray1:19

	Target Analyte	#Hom	Total Area	Ion1 Area	Ion2 Area	Ra	Ra Fail=Y...	RT	RRT	RT LCL	RT UCL	Conc.	%Rec	Mod.Comment	Noise 1	Noise 2
38	PCB-46		588	271	318	0.85	NO	16.24	1.12	16.21	16.28	1.33791		NA211108MB	1770	1819
39	PCB-52		29785	12884	16901	0.76	NO	17.00	1.18	16.96	17.03	54.20946		NA211108MB	1770	1819
40	PCB-73						YES								1770	1819
41	PCB-43		1246	501	745	0.67	NO	17.13	1.19	17.10	17.17	2.60682		NA211108MB	1770	1819
42	PCB-69/49		11011	4646	6365	0.73	NO	17.27	1.19	17.24	17.30	17.91686			1770	1819
43	PCB-48		2886	1264	1622	0.78	NO	17.43	1.21	17.39	17.46	5.42085			1770	1819
44	PCB-44/47/65		25377	11019	14358	0.77	NO	17.56	1.22	17.53	17.60	44.14534			1770	1819
45	PCB-59/62/75		1703	691	1012	0.68	NO	17.75	1.23	17.72	17.78	2.40038			1770	1819
46	PCB-42		3150	1211	1940	0.62	YES	17.86	1.24	17.82	17.89	6.19908		NA211108MB	1770	1819
47	PCB-41/71/40		7589	3232	4357	0.74	NO	18.13	1.25	18.10	18.16	14.75028			1770	1819
48	PCB-64		10090	4707	5383	0.87	NO	18.24	1.26	18.21	18.27	13.57903			1770	1819
49	* PCB-72						YES								2259	2370
50	PCB-68		2547	1083	1464	0.74	NO	18.81	0.86	18.78	18.84	3.17437			2259	2370
51	PCB-57						YES								2259	2370
52	PCB-58		166	71	96	0.74	NO	19.17	0.88	19.14	19.21	0.23523		NA211108MA	2259	2370
53	PCB-67		664	257	407	0.63	YES	19.27	0.88	19.24	19.31	0.80971		NA211108MA	2259	2370
54	PCB-63		970	358	612	0.58	YES	19.40	0.89	19.37	19.44	1.27088			2259	2370
55	PCB-61/70/74/76		55304	24595	30709	0.80	NO	19.60	0.90	19.56	19.63	77.78018			2259	2370
56	PCB-66		19263	8284	10979	0.75	NO	19.77	0.91	19.74	19.81	24.56938			2259	2370
57	PCB-55						YES								2259	2370
58	PCB-56		8846	4290	4556	0.94	YES	20.16	0.92	20.13	20.20	12.86151			2259	2370
59	PCB-60		5414	2342	3072	0.76	NO	20.28	0.93	20.25	20.32	7.49737			2259	2370
60	PCB-80						YES								2259	2370
61	PCB-79		601	227	374	0.61	YES	21.27	0.98	21.24	21.31	0.71161		NA211108MS	2259	2370
62	PCB-78						YES								2259	2370
63	PCB-81						YES								2259	2370
64	PCB-77		1773	767	1005	0.76	NO	22.13	1.00	22.10	22.17	2.23615			2259	2370
65	* PCB-104						YES								823	2420
66	PCB-96						YES								823	2420
67	* PCB-103						YES								1586	2594
68	PCB-94						YES								1586	2594
69	PCB-95		26924	16395	10529	1.56	NO	19.14	1.09	19.10	19.17	52.16403		NA211108MJ	1586	2594
70	PCB-100/93/102/98		1073	1064	9	117...	YES	19.30	1.10	19.27	19.34	2.15104		NA211108MJ	1586	2594
71	PCB-88/91		4506	2801	1705	1.64	NO	19.60	1.12	19.56	19.63	9.05515			1586	2594
72	PCB-84		7204	4392	2811	1.56	NO	19.74	1.13	19.70	19.77	16.85118			1586	2594
73	PCB-89						YES								1586	2594
74	PCB-121						YES								1586	2594

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Name: 5_211102A24, Date: 03-Nov-2021, Time: 02:13:14, ID: L2625428-1, Description: SAMPLE, Vial: Tray1:19

	Target Analyte	#Hom	Total Area	Ion1 Area	Ion2 Area	Ra	Ra Fail=Y...	RT	RRT	RT LCL	RT UCL	Conc.	%Rec	Mod.Comment	Noise 1	Noise 2
75	PCB-92		6829	4052	2777	1.46	NO	20.35	1.16	20.31	20.38	13.91646			1586	2594
76	PCB-113/90/101		46284	29164	17120	1.70	NO	20.66	1.18	20.63	20.69	78.87155			1586	2594
77	PCB-83/99		19832	12123	7709	1.57	NO	20.97	0.91	20.93	21.00	40.84015			1586	2594
78	PCB-112		259	168	92	1.83	YES	21.09	0.91	21.05	21.12	0.37939			1586	2594
79	PCB-109/119/86/97/125/87		31440	19530	11911	1.64	NO	21.32	0.92	21.28	21.35	53.78653		NA211108MJ	1586	2594
80	PCB-117/116/85/110/115		66687	41105	25583	1.61	NO	21.73	0.94	21.70	21.77	104.26386		NA211108MJ	1586	2594
81	PCB-82		3958	2619	1339	1.96	YES	21.93	0.95	21.89	21.96	9.44852		NA211108MB	1586	2594
82	PCB-111						YES								1586	2594
83	PCB-120						YES								1586	2594
84	* PCB-108/124		1802	1147	655	1.75	NO	22.92	0.99	22.88	22.95	2.66629			2066	3284
85	PCB-107		2848	1734	1114	1.56	NO	23.05	1.00	23.01	23.08	4.17573		NA211108MB	2066	3284
86	PCB-123						YES								2066	3284
87	PCB-106						YES								2066	3284
88	PCB-118		52784	32469	20315	1.60	NO	23.28	1.00	23.24	23.31	75.91687		NA211108MB	2066	3284
89	PCB-122						YES								2066	3284
90	PCB-114		1862	952	911	1.04	YES	23.58	1.00	23.55	23.61	2.59664		NA211108MB	2066	3284
91	PCB-105		21148	13121	8027	1.63	NO	23.93	1.00	23.90	23.96	29.80912			2066	3284
92	PCB-127						YES								2066	3284
93	PCB-126						YES								2066	3284
94	* PCB-155		3252	1767	1484	1.19	NO	20.51	1.00	20.48	20.55	5.52150			695	1193
95	PCB-152						YES								695	1193
96	PCB-150		227	113	114	1.00	YES	20.74	1.01	20.70	20.77	0.32762		NA211108MB	695	1193
97	PCB-136		4487	2511	1977	1.27	NO	20.98	1.02	20.94	21.01	6.41163			695	1193
98	PCB-145						YES								695	1193
99	PCB-148						YES								695	1193
100	PCB-151/135		8456	4803	3652	1.32	NO	22.19	1.08	22.15	22.22	17.24090		NA211108MS	695	1193
101	PCB-154		675	360	315	1.14	NO	22.27	1.09	22.24	22.30	1.15018		NA211108MS	695	1193
102	PCB-144		1489	899	590	1.52	YES	22.48	1.10	22.45	22.52	2.90787			695	1193
103	* PCB-147/149		22815	12201	10614	1.15	NO	22.67	1.11	22.64	22.71	46.84076		NA211108MB	1573	900
104	PCB-134/143		1150	605	544	1.11	NO	22.82	1.11	22.79	22.85	2.67130			1573	900
105	PCB-139/140		1067	613	454	1.35	NO	22.98	1.12	22.94	23.01	2.16068		NA211108MB	1573	900
106	PCB-131		513	303	211	1.44	YES	23.11	0.88	23.08	23.14	1.25456		NA211108MB	1573	900
107	PCB-142						YES								1573	900
108	PCB-132		10011	5439	4571	1.19	NO	23.36	0.88	23.33	23.40	22.07940			1573	900
109	PCB-133		648	336	313	1.07	NO	23.56	0.89	23.52	23.59	1.33084			1573	900
110	PCB-165						YES								1573	900
111	PCB-146		4661	2548	2113	1.21	NO	23.88	0.90	23.85	23.92	8.79216			1573	900

Quantify Sample Summary Report **MassLynx V4.2 SCN1012**

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Name: 5_211102A24, Date: 03-Nov-2021, Time: 02:13:14, ID: L2625428-1, Description: SAMPLE, Vial: Tray1:19

	Target Analyte	#Hom	Total Area	Ion1 Area	Ion2 Area	Ra	Ra Fail=Y...	RT	RRT	RT LCL	RT UCL	Conc.	%Rec	Mod.Comment	Noise 1	Noise 2
112	PCB-161						YES								1573	900
113	PCB-153/168		35321	19519	15803	1.24	NO	24.21	0.92	24.18	24.24	55.26131			1573	900
114	PCB-141		6059	3153	2906	1.09	NO	24.34	0.92	24.31	24.37	12.33524			1573	900
115	PCB-130		1835	894	942	0.95	YES	24.56	0.93	24.53	24.59	4.12321		NA211108MB	1573	900
116	PCB-137/164		4149	2355	1794	1.31	NO	24.67	0.93	24.63	24.70	7.20371		NA211108MJ	1573	900
117	PCB-138/163/129		38205	21887	16319	1.34	NO	24.90	0.94	24.86	24.93	79.53286			1573	900
118	PCB-160						YES								1573	900
119	PCB-158		5682	3322	2359	1.41	NO	25.09	0.95	25.06	25.12	7.51369			1573	900
120	PCB-128/166		5545	2970	2576	1.15	NO	25.57	0.97	25.54	25.61	9.33418			1573	900
121	PCB-159						YES								1573	900
122	PCB-162						YES								1573	900
123	PCB-167		2062	949	1113	0.85	YES	26.42	1.00	26.39	26.45	3.22761		NA211108MB	1573	900
124	PCB-156/157		6050	3550	2501	1.42	NO	27.04	1.00	27.00	27.07	9.52869			1573	900
125	PCB-169						YES								1573	900
126	* PCB-188						YES								730	541
127	PCB-179		2950	1371	1579	0.87	YES	23.73	1.01	23.69	23.76	5.02432			730	541
128	PCB-184		5409	2729	2680	1.02	NO	23.95	1.02	23.92	23.99	8.98751			730	541
129	PCB-176		728	319	409	0.78	YES	24.18	1.03	24.15	24.22	1.30114		NA211108MB	730	541
130	PCB-186						YES								730	541
131	PCB-178		1438	710	728	0.98	NO	25.09	1.07	25.06	25.12	3.62200			730	541
132	PCB-175						YES								730	541
133	PCB-187		7102	3816	3285	1.16	NO	25.55	1.09	25.52	25.58	15.41853			730	541
134	PCB-182						YES								730	541
135	PCB-183		3142	1549	1593	0.97	NO	25.86	1.10	25.83	25.90	7.12011		NA211108MB	730	541
136	PCB-185		328	161	167	0.96	NO	25.95	1.10	25.92	25.98	0.77338		NA211108MS	730	541
137	PCB-174		4019	2093	1926	1.09	NO	26.02	1.11	25.99	26.05	10.26940		NA211108MS	730	541
138	PCB-177		2312	1114	1198	0.93	NO	26.26	1.12	26.23	26.30	5.85744			730	541
139	PCB-181						YES								730	541
140	PCB-171/173		1200	532	668	0.80	YES	26.58	0.89	26.54	26.61	3.17710		NA211108MB	730	541
141	PCB-172		604	327	277	1.18	NO	27.36	0.91	27.33	27.40	1.53190			730	541
142	PCB-192						YES								730	541
143	PCB-180/193		13360	6909	6451	1.07	NO	27.71	0.92	27.68	27.75	28.14060			730	541
144	PCB-191						YES								730	541
145	PCB-170		3991	2055	1936	1.06	NO	28.40	0.95	28.37	28.44	10.59468			730	541
146	PCB-190		1243	664	580	1.14	NO	28.67	0.96	28.63	28.70	2.09028		NA211108MB	730	541
147	* PCB-189		284	148	136	1.09	NO	29.98	1.00	29.94	30.01	0.51486		NA211108MB	745	610
148	* PCB-202		1122	467	655	0.71	YES	26.29	1.00	26.25	26.32	2.46668			610	699

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	Target Analyte	#Hom	Total Area	Ion1 Area	Ion2 Area	Ra	Ra Fail=Y...	RT	RRT	RT LCL	RT UCL	Conc.	%Rec	Mod.Comment	Noise 1	Noise 2
149	PCB-201		662	362	299	1.21	YES	26.77	1.02	26.74	26.80	1.28457			610	699
150	PCB-204		204	81	123	0.66	YES	27.07	1.03	27.04	27.11	0.40972		NA211108MB	610	699
151	PCB-197		440	257	184	1.40	YES	27.21	1.04	27.17	27.24	0.88486			610	699
152	PCB-200		328	133	195	0.68	YES	27.31	1.04	27.28	27.35	0.64189			610	699
153	PCB-198/199		3096	1539	1557	0.99	NO	28.72	0.92	28.68	28.75	8.74462			610	699
154	PCB-196		1046	504	542	0.93	NO	29.03	0.93	29.00	29.06	2.93920		NA211108MB	610	699
155	PCB-203		1871	707	1164	0.61	YES	29.15	0.93	29.12	29.18	4.74945		NA211108MB	610	699
156	* PCB-195		766	383	383	1.00	NO	29.88	0.95	29.85	29.91	2.21419			347	718
157	PCB-194		2602	1163	1439	0.81	NO	31.09	0.99	31.06	31.13	6.99147			347	718
158	PCB-205		185	106	79	1.34	YES	31.37	1.00	31.34	31.41	0.45304		NA211108MB	347	718
159	* PCB-208		1085	332	753	0.44	YES	29.71	1.00	29.68	29.75	2.37867		NA211108MA	860	2506
160	PCB-207		698	222	476	0.47	YES	30.17	1.02	30.14	30.21	1.56603		NA211108MA	860	2506
161	PCB-206		1553	613	940	0.65	YES	32.43	1.00	32.40	32.47	5.01314		NA211108MA	860	2506
162	* PCB-209		987	536	451	1.19	NO	33.56	1.00	33.53	33.59	2.93734			301	303
163	13C-PCB-31						YES								56205	31177
164	13C-PCB-95		1265	783	482	1.62	NO	19.20	1.10	19.17	19.23	3.62681	0.1		4536	3114
165	13C-PCB-153		5021	3053	1968	1.55	YES	24.20	1.18	24.16	24.23	10.10832	0.3		3131	3790
166	13C-PCB-28		1307575	680894	626681	1.09	NO	15.99	0.94	15.95	16.02	1057.49273	26.4		56205	31177
167	13C-PCB-111		1073192	659325	413867	1.59	NO	22.03	1.07	22.00	22.06	1541.52126	38.5		4536	3114
168	13C-PCB-178		889486	450105	439381	1.02	NO	25.08	1.01	25.05	25.11	1667.17889	41.7		2256	2055
169	13C-PCB-1		1081229	819442	261787	3.13	NO	8.90	0.75	8.86	8.93	658.64838	16.5		3677	19093
170	13C-PCB-3		1234088	927319	306769	3.02	NO	10.44	0.88	10.40	10.47	845.34209	21.1		3677	19093
171	13C-PCB-4		831829	509556	322272	1.58	NO	10.59	0.89	10.56	10.63	809.39991	20.2		13572	4455
172	13C-PCB-15		2201929	1369109	832820	1.64	NO	14.30	1.21	14.26	14.33	1716.59691	42.9		19113	8036
173	13C-PCB-19		747849	387261	360588	1.07	NO	12.60	1.06	12.56	12.63	973.62165	24.3		35822	19397
174	13C-PCB-37		2555699	1320348	1235351	1.07	NO	18.24	1.07	18.21	18.27	2513.07036	62.8		56205	31177
175	13C-PCB-54		1281794	573536	708259	0.81	NO	14.45	0.85	14.42	14.49	1071.27829	26.8		5266	4202
176	13C-PCB-81		2632210	1166514	1465696	0.80	NO	21.81	1.06	21.77	21.84	2777.68861	69.4		8968	6287
177	13C-PCB-77		2730981	1193569	1537411	0.78	NO	22.12	1.07	22.09	22.16	2832.54532	70.8		8968	6287
178	13C-PCB-104		1740689	1065679	675010	1.58	NO	17.50	1.03	17.47	17.54	1464.41026	36.6		2686	2782
179	13C-PCB-123		2286063	1397120	888944	1.57	NO	23.10	1.12	23.06	23.13	2753.73938	68.8		6142	4688
180	13C-PCB-118		2375000	1460225	914775	1.60	NO	23.27	1.13	23.23	23.30	2726.26535	68.2		6142	4688
181	13C-PCB-114		2332553	1438100	894453	1.61	NO	23.57	0.95	23.53	23.60	2937.45548	73.4		6142	4688
182	13C-PCB-105		2354960	1446647	908313	1.59	NO	23.92	0.96	23.89	23.95	2995.67662	74.9		6142	4688
183	13C-PCB-126		2359118	1448737	910381	1.59	NO	25.51	1.03	25.48	25.55	3310.07729	82.8		6142	4688
184	13C-PCB-155		2226413	1243736	982677	1.27	NO	20.50	0.99	20.47	20.54	1971.46201	49.3		2542	1728
185	13C-PCB-167		2314465	1313290	1001175	1.31	NO	26.41	1.06	26.37	26.44	2862.35217	71.6		3131	3790

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	Target Analyte	#Hom	Total Area	Ion1 Area	Ion2 Area	Ra	Ra Fail=Y...	RT	RRT	RT LCL	RT UCL	Conc.	%Rec	Mod.Comment	Noise 1	Noise 2
186	13C-PCB-156/157		4448028	2488065	1959963	1.27	NO	27.04	1.09	27.00	27.07	5703.55197	71.3		3131	3790
187	13C-PCB-169		2531246	1474225	1057020	1.39	NO	28.69	1.15	28.66	28.73	3454.94816	86.4		3131	3790
188	13C-PCB-188		2139765	1091703	1048062	1.04	NO	23.50	0.94	23.46	23.53	2253.26486	56.3		2256	2055
189	13C-PCB-189		2185414	1124415	1061000	1.06	NO	29.96	0.96	29.93	30.00	2946.97720	73.7		2899	2905
190	13C-PCB-202		1687786	801495	886291	0.90	NO	26.27	1.06	26.24	26.31	2299.68636	57.5		1072	1330
191	13C-PCB-205		1783353	837460	945893	0.89	NO	31.36	1.01	31.33	31.39	2605.91522	65.1		1035	1724
192	13C-PCB-208		1493953	662332	831621	0.80	NO	29.69	0.96	29.65	29.72	2738.44369	68.5		864	1536
193	13C-PCB-206		1023112	451589	571523	0.79	NO	32.42	1.04	32.39	32.45	2675.57710	66.9		864	1536
194	13C-PCB-209		1328481	721172	607309	1.19	NO	33.53	1.08	33.50	33.56	2178.22089	54.5		419	407
195	13C-PCB-9		6108235	3703360	2404875	1.54	NO	11.85	0.48	11.82	11.89	96.64580	2.4		13572	4455
196	13C-PCB-52		2805414	1243920	1561494	0.80	NO	16.98	0.68	16.94	17.01	92.88843	2.3		8218	6973
197	13C-PCB-101		2447065	1501913	945153	1.59	NO	20.64	0.83	20.61	20.68	96.76665	2.4		4536	3114
198	13C-PCB-138		2552765	1433891	1118874	1.28	NO	24.87	0.00	24.84	24.91	100.16358	2.5		3131	3790
199	13C-PCB-194		1838410	868311	970099	0.90	NO	31.08	1.25	31.05	31.11	94.64972	2.4		1035	1724
200	Total MoCB-F1	3		7052								25.49311			1173	
201	Total DiCB-F1	1		2236								7.32645			2467	
202	Total DiCB-F2	2		29767								101.47882			4804	
203	Total TrCB-F1	1		414								3.72123			2562	
204	Total TrCB-F2	4		7552								27.91448			3281	
205	Total TrCB-F3	10		34652								984.80360			3222	
206	Total TeCB-F2			0											842	
207	Total TeCB-F3	12		42760								172.00912			1770	
208	Total TeCB-F4	12		43715								2759.79348			2259	
209	Total PeCB-F3			0											823	
210	Total PeCB-F4	15		134491								1928.52190			1586	
211	Total PeCB-F5	13		1307575								3076767.053...			2066	
212	Total HxCB-F4	6		10454								33.55971			695	
213	Total HxCB-F5	19		82603								3355.97968			1573	
214	Total HpCB-F5	14		24347								103.90839			730	
215	Total HpCB-F6	1		148								0.51486			745	
216	Total OcCB-F5	8		4050								22.12098			610	
217	Total OcCB-F6	3		1653								9.65870			347	
218	Total NoCB-F6	3		1167								8.95785			860	
219	Total DeCB-F7	1		536								2.93734			301	
220	Total 13C-MoCB-F1	2		1746761								1503.99047			3677	
221	Total 13C-DiCB-F1	2		4212916								906.04571			13572	
222	Total 13C-DiCB-F2	1		1369109								1716.59691			19113	

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	Target Analyte	#Hom	Total Area	Ion1 Area	Ion2 Area	Ra	Ra Fail=Y...	RT	RRT	RT LCL	RT UCL	Conc.	%Rec	Mod.Comment	Noise 1	Noise 2
223	Total 13C-TrCB-F1	1		616130								973.62165			35822	
224	Total 13C-TrCB-F3	2		2010635								3570.56308			56205	
225	Total 13C-TeCB-F2	1		573536								1071.27829			5266	
226	Total 13C-TeCB-F3	2		1247607								93.14481			8218	
227	Total 13C-TeCB-F4	2		2385238								5610.23393			8968	
228	Total 13C-PeCB-F3	1		1112447								1464.41026			2686	
229	Total 13C-PeCB-F4	13		2181652								1645.70862			4536	
230	Total 13C-PeCB-F5	5		7780574								14723.21412			6142	
231	Total 13C-HxCB-F4	1		1254029								1971.46201			2542	
232	Total 13C-HxCB-F5	20		6775205								12151.28524			3131	
233	Total 13C-HpCB-F5	2		1572601								3920.44375			2256	
234	Total 13C-HpCB-F6	1		1662640								2946.97720			2899	
235	Total 13C-OcCB-F5	1		805554								2299.68636			1072	
236	Total 13C-OcCB-F6	9		1749582								2710.02897			1035	
237	Total 13C-NoCB-F6	2		1115285								5414.02079			864	
238	Total 13C-DeCB-F7	1		721172								2178.22089			419	
239	Lockmass F1			0											10437...	
240	Lockmass F2			0											543284	
241	Lockmass F3			0											893227	
242	Lockmass F4			0											674861	
243	Lockmass F5			0											191820	
244	Lockmass F6			0											254497	
245	Lockmass F7			0											49140	

Quantify Sample Report **MassLynx V4.2 SCN1012**

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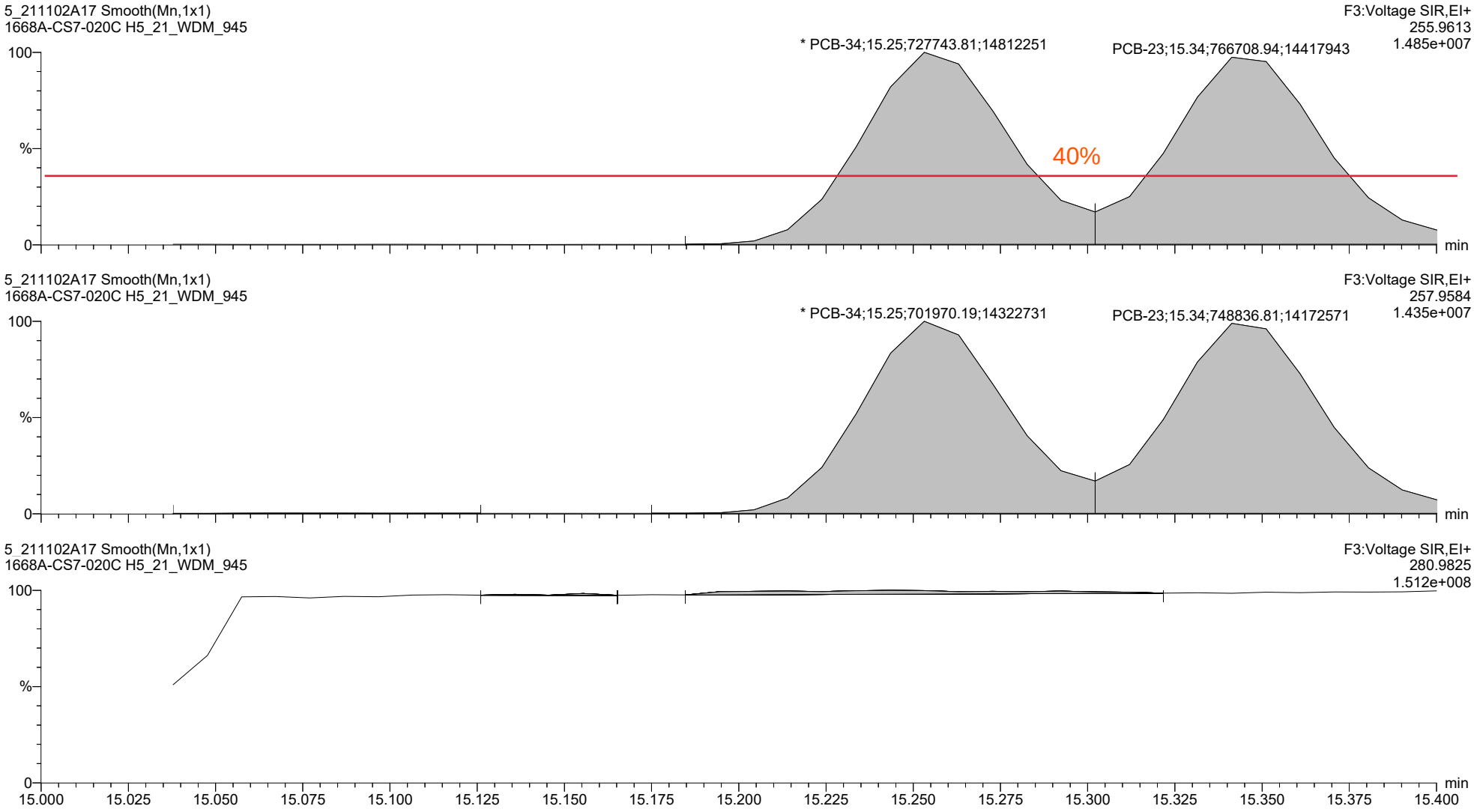
Last Altered: Monday, November 08, 2021 13:43:10 Eastern Standard Time
Printed: Monday, November 08, 2021 15:57:46 Eastern Standard Time

Method: C:\MassLynx\PCB.PRO\MethDB\1668_OCTYL_209-1025.mdb 25 Oct 2021 11:29:00
Calibration: 08 Nov 2021 13:20:26

Name: 5_211102A17, Date: 02-Nov-2021, Time: 21:19:40, ID: H5_21_WDM_945, Description: 1668A-CS7-020C, Vial: Tray1:2

*** PCB-34**



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Dataset: I:\Organics Instrument\HIGHRES GCMS Completed Results Files\HR-5\5-211102A2-1108NA.qld

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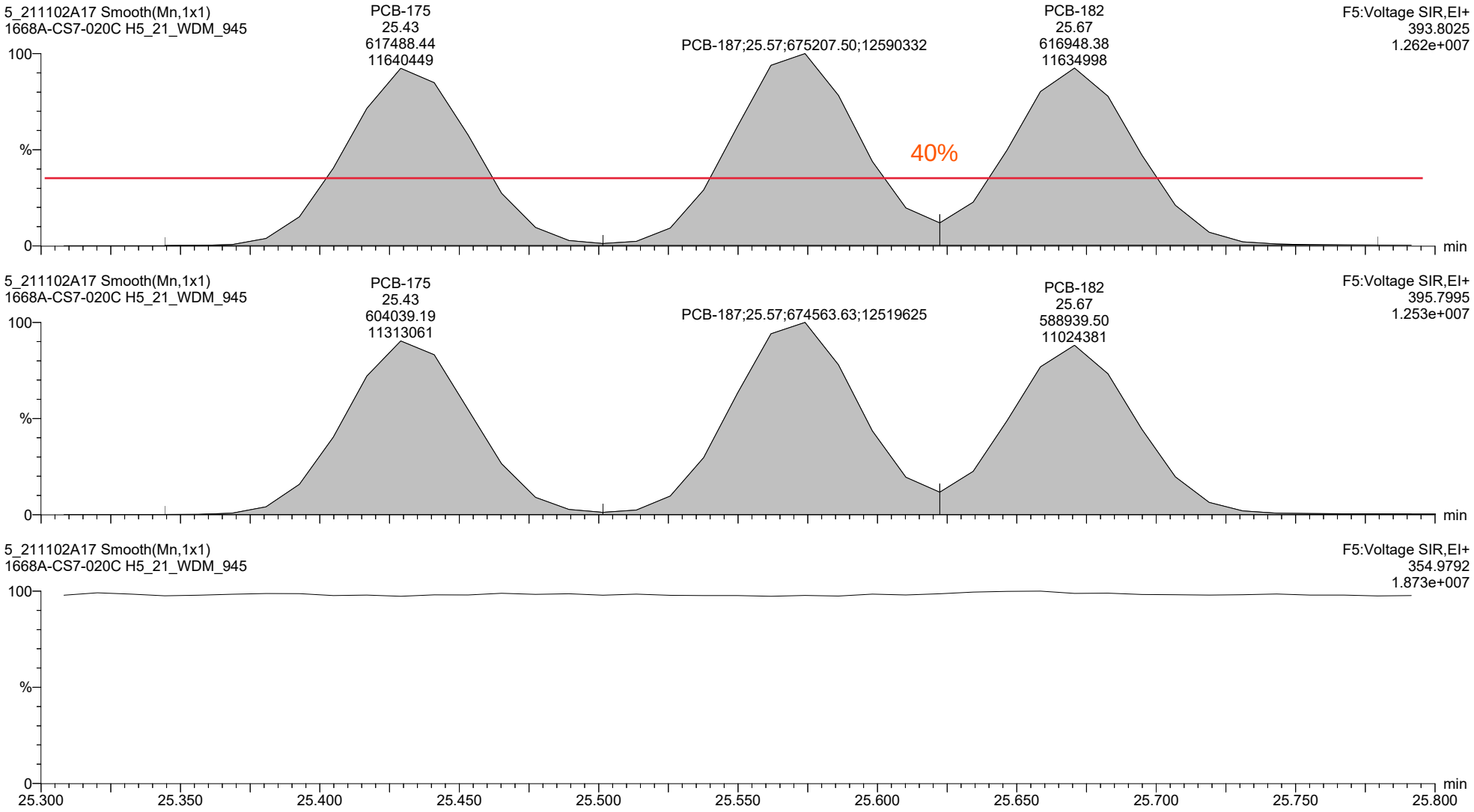
Name: 5_211102A17, Date: 02-Nov-2021, Time: 21:19:40, ID: H5_21_WDM_945, Description: 1668A-CS7-020C, Vial: Tray1:2

PCB-187



Quantify Audit Report MassLynx V4.2 SCN1012

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Last Altered: Monday, November 08, 2021 13:43:10 Eastern Standard Time
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Date	Time	Event	Details	Comments
03-Nov-21	08:33:08	Process Extract		
03-Nov-21	08:33:09	Process Integrate		
03-Nov-21	08:33:10	Process Calibrate		
03-Nov-21	08:33:10	Process Quantify		
03-Nov-21	08:33:10	Dataset Created		
03-Nov-21	08:33:42	Dataset Saved	Saved to 'I:\Organics Instrument\HIGHRES GCMS Complete...	
08-Nov-21	12:37:22	Peak added	Sample:5_211102A21, Compound:MoCB-F1, RT:8.981	NA211108MA
08-Nov-21	12:37:47	Pre modification peak	Sample:5_211102A21, Compound:MoCB-F1, RT:10.494	
08-Nov-21	12:37:47	Peak modified	Sample:5_211102A21, Compound:MoCB-F1, RT:10.494	NA211108MB
08-Nov-21	12:38:04	Peak added	Sample:5_211102A22, Compound:MoCB-F1, RT:10.452	NA211108MA
08-Nov-21	12:38:04	Peak added	Sample:5_211102A22, Compound:MoCB-F1, RT:10.340	NA211108MA
08-Nov-21	12:38:04	Pre modification peak	Sample:5_211102A22, Compound:MoCB-F1, RT:10.424	
08-Nov-21	12:38:04	Peak modified	Sample:5_211102A22, Compound:MoCB-F1, RT:10.424	NA211108MA
08-Nov-21	12:38:11	Peak added	Sample:5_211102A22, Compound:MoCB-F1, RT:8.910	NA211108MA
08-Nov-21	12:38:31	Pre modification peak	Sample:5_211102A23, Compound:MoCB-F1, RT:10.438	
08-Nov-21	12:38:31	Peak modified	Sample:5_211102A23, Compound:MoCB-F1, RT:10.438	NA211108MB
08-Nov-21	12:38:31	Pre modification peak	Sample:5_211102A23, Compound:MoCB-F1, RT:10.312	
08-Nov-21	12:38:31	Peak modified	Sample:5_211102A23, Compound:MoCB-F1, RT:10.312	NA211108MB
08-Nov-21	12:38:54	Pre modification peak	Sample:5_211102A24, Compound:MoCB-F1, RT:10.438	
08-Nov-21	12:38:54	Peak modified	Sample:5_211102A24, Compound:MoCB-F1, RT:10.438	NA211108MB
08-Nov-21	12:38:54	Pre modification peak	Sample:5_211102A24, Compound:MoCB-F1, RT:10.326	
08-Nov-21	12:38:54	Peak modified	Sample:5_211102A24, Compound:MoCB-F1, RT:10.326	NA211108MB
08-Nov-21	12:38:54	Pre modification peak	Sample:5_211102A24, Compound:MoCB-F1, RT:8.896	
08-Nov-21	12:38:54	Peak modified	Sample:5_211102A24, Compound:MoCB-F1, RT:8.896	NA211108MB
08-Nov-21	12:39:15	Pre modification peak	Sample:5_211102A21, Compound:DiCB-F1, RT:10.663	
08-Nov-21	12:39:15	Peak modified	Sample:5_211102A21, Compound:DiCB-F1, RT:10.663	NA211108MB
08-Nov-21	12:39:23	Pre modification peak	Sample:5_211102A23, Compound:DiCB-F1, RT:10.592	
08-Nov-21	12:39:23	Peak modified	Sample:5_211102A23, Compound:DiCB-F1, RT:10.592	NA211108MB
08-Nov-21	12:39:50	Peak added	Sample:5_211102A21, Compound:DiCB-F1, RT:12.008	NA211108MB
08-Nov-21	12:39:50	Peak added	Sample:5_211102A21, Compound:DiCB-F1, RT:11.896	NA211108MB
08-Nov-21	12:39:55	Peak added	Sample:5_211102A21, Compound:DiCB-F1, RT:12.176	NA211108MA
08-Nov-21	12:40:07	Pre modification peak	Sample:5_211102A21, Compound:DiCB-F1, RT:12.429	
08-Nov-21	12:40:07	Peak modified	Sample:5_211102A21, Compound:DiCB-F1, RT:12.429	NA211108MB
08-Nov-21	12:40:07	Pre modification peak	Sample:5_211102A21, Compound:DiCB-F1, RT:12.443	
08-Nov-21	12:40:07	Peak modified	Sample:5_211102A21, Compound:DiCB-F1, RT:12.443	NA211108MB
08-Nov-21	12:40:19	Pre modification peak	Sample:5_211102A23, Compound:DiCB-F1, RT:12.120	
08-Nov-21	12:40:19	Peak modified	Sample:5_211102A23, Compound:DiCB-F1, RT:12.120	NA211108MB
08-Nov-21	12:40:27	Peak added	Sample:5_211102A24, Compound:DiCB-F1, RT:12.415	NA211108MA
08-Nov-21	12:40:55	Pre modification peak	Sample:5_211102A23, Compound:DiCB-F2, RT:13.901	
08-Nov-21	12:40:55	Peak modified	Sample:5_211102A23, Compound:DiCB-F2, RT:13.901	NA211108MB
08-Nov-21	12:40:55	Pre modification peak	Sample:5_211102A23, Compound:DiCB-F2, RT:13.901	
08-Nov-21	12:40:55	Peak modified	Sample:5_211102A23, Compound:DiCB-F2, RT:13.901	NA211108MB
08-Nov-21	12:41:03	Pre modification peak	Sample:5_211102A23, Compound:DiCB-F2, RT:14.297	
08-Nov-21	12:41:03	Peak modified	Sample:5_211102A23, Compound:DiCB-F2, RT:14.297	NA211108MB
08-Nov-21	12:41:24	Pre modification peak	Sample:5_211102A24, Compound:DiCB-F2, RT:13.919	
08-Nov-21	12:41:24	Peak modified	Sample:5_211102A24, Compound:DiCB-F2, RT:13.919	NA211108MB
08-Nov-21	12:41:24	Peak added	Sample:5_211102A24, Compound:DiCB-F2, RT:14.306	NA211108MB
08-Nov-21	12:41:24	Pre modification peak	Sample:5_211102A24, Compound:DiCB-F2, RT:14.306	
08-Nov-21	12:41:24	Peak modified	Sample:5_211102A24, Compound:DiCB-F2, RT:14.306	NA211108MB
08-Nov-21	12:41:24	Pre modification peak	Sample:5_211102A24, Compound:DiCB-F2, RT:13.919	
08-Nov-21	12:41:24	Peak modified	Sample:5_211102A24, Compound:DiCB-F2, RT:13.919	NA211108MB
08-Nov-21	12:41:37	Peak added	Sample:5_211102A21, Compound:TrCB-F1, RT:12.639	NA211108MA
08-Nov-21	12:41:56	Pre modification peak	Sample:5_211102A23, Compound:TrCB-F1, RT:12.597	

Quantify Audit Report MassLynx V4.2 SCN1012

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Date	Time	Event	Details	Comments
08-Nov-21	12:41:56	Peak modified	Sample:5_211102A23, Compound:TrCB-F1, RT:12.597	NA211108MB
08-Nov-21	12:41:56	Pre modification peak	Sample:5_211102A23, Compound:TrCB-F1, RT:12.597	
08-Nov-21	12:41:56	Peak modified	Sample:5_211102A23, Compound:TrCB-F1, RT:12.597	NA211108MB
08-Nov-21	12:42:11	Peak added	Sample:5_211102A24, Compound:TrCB-F1, RT:12.597	NA211108MA
08-Nov-21	12:42:11	Pre modification peak	Sample:5_211102A24, Compound:TrCB-F1, RT:12.611	
08-Nov-21	12:42:11	Peak modified	Sample:5_211102A24, Compound:TrCB-F1, RT:12.611	NA211108MA
08-Nov-21	12:42:38	Peak added	Sample:5_211102A22, Compound:TrCB-F2, RT:14.527	NA211108MA
08-Nov-21	12:43:10	Method modified		
08-Nov-21	12:43:19	Process Calibrate		
08-Nov-21	12:43:19	Process Quantify		
08-Nov-21	12:44:05	Pre modification peak	Sample:5_211102A21, Compound:TrCB-F2, RT:14.260	
08-Nov-21	12:44:05	Peak modified	Sample:5_211102A21, Compound:TrCB-F2, RT:14.260	NA211108MB
08-Nov-21	12:44:33	Pre modification peak	Sample:5_211102A24, Compound:TrCB-F2, RT:14.250	
08-Nov-21	12:44:33	Peak modified	Sample:5_211102A24, Compound:TrCB-F2, RT:14.250	NA211108MB
08-Nov-21	12:44:44	Pre modification peak	Sample:5_211102A24, Compound:TrCB-F2, RT:14.536	
08-Nov-21	12:44:44	Peak modified	Sample:5_211102A24, Compound:TrCB-F2, RT:14.536	NA211108MB
08-Nov-21	12:44:44	Pre modification peak	Sample:5_211102A24, Compound:TrCB-F2, RT:14.536	
08-Nov-21	12:44:44	Peak modified	Sample:5_211102A24, Compound:TrCB-F2, RT:14.536	NA211108MB
08-Nov-21	12:45:07	Peak added	Sample:5_211102A21, Compound:TrCB-F3, RT:15.645	NA211108MA
08-Nov-21	12:45:28	Pre modification peak	Sample:5_211102A23, Compound:TrCB-F3, RT:15.488	
08-Nov-21	12:45:28	Peak modified	Sample:5_211102A23, Compound:TrCB-F3, RT:15.488	NA211108MB
08-Nov-21	12:45:28	Pre modification peak	Sample:5_211102A23, Compound:TrCB-F3, RT:15.635	
08-Nov-21	12:45:28	Peak modified	Sample:5_211102A23, Compound:TrCB-F3, RT:15.635	NA211108MB
08-Nov-21	12:45:45	Pre modification peak	Sample:5_211102A23, Compound:TrCB-F3, RT:15.498	
08-Nov-21	12:45:45	Peak modified	Sample:5_211102A23, Compound:TrCB-F3, RT:15.498	NA211108MB
08-Nov-21	12:45:45	Pre modification peak	Sample:5_211102A23, Compound:TrCB-F3, RT:15.635	
08-Nov-21	12:45:45	Peak modified	Sample:5_211102A23, Compound:TrCB-F3, RT:15.635	NA211108MB
08-Nov-21	12:46:08	Pre modification peak	Sample:5_211102A24, Compound:TrCB-F3, RT:15.517	
08-Nov-21	12:46:08	Peak modified	Sample:5_211102A24, Compound:TrCB-F3, RT:15.517	NA211108MB
08-Nov-21	12:46:08	Pre modification peak	Sample:5_211102A24, Compound:TrCB-F3, RT:15.645	
08-Nov-21	12:46:08	Peak modified	Sample:5_211102A24, Compound:TrCB-F3, RT:15.645	NA211108MB
08-Nov-21	12:46:08	Pre modification peak	Sample:5_211102A24, Compound:TrCB-F3, RT:15.517	
08-Nov-21	12:46:08	Peak modified	Sample:5_211102A24, Compound:TrCB-F3, RT:15.517	NA211108MB
08-Nov-21	12:46:23	Peak modified	Sample:5_211102A24, Compound:TrCB-F3, RT:15.645	NA211108MB
08-Nov-21	12:48:44	Peak added	Sample:5_211102A22, Compound:TrCB-F3, RT:15.860	NA211108MA
08-Nov-21	12:48:44	Peak added	Sample:5_211102A22, Compound:TrCB-F3, RT:15.860	NA211108MA
08-Nov-21	12:48:50	Peak added	Sample:5_211102A22, Compound:TrCB-F3, RT:16.154	NA211108MA
08-Nov-21	12:49:07	Pre modification peak	Sample:5_211102A23, Compound:TrCB-F3, RT:15.987	
08-Nov-21	12:49:07	Peak modified	Sample:5_211102A23, Compound:TrCB-F3, RT:15.987	NA211108MB
08-Nov-21	12:49:07	Pre modification peak	Sample:5_211102A23, Compound:TrCB-F3, RT:16.124	
08-Nov-21	12:49:07	Peak modified	Sample:5_211102A23, Compound:TrCB-F3, RT:16.124	NA211108MB
08-Nov-21	12:49:39	Pre modification peak	Sample:5_211102A24, Compound:TrCB-F3, RT:16.007	
08-Nov-21	12:49:39	Peak modified	Sample:5_211102A24, Compound:TrCB-F3, RT:16.007	NA211108MB
08-Nov-21	12:49:39	Pre modification peak	Sample:5_211102A24, Compound:TrCB-F3, RT:16.154	
08-Nov-21	12:49:39	Peak modified	Sample:5_211102A24, Compound:TrCB-F3, RT:16.154	NA211108MB
08-Nov-21	12:50:17	Peak added	Sample:5_211102A22, Compound:TrCB-F3, RT:18.278	NA211108MA
08-Nov-21	12:50:17	Peak added	Sample:5_211102A22, Compound:TrCB-F3, RT:18.288	NA211108MA
08-Nov-21	12:50:26	Pre modification peak	Sample:5_211102A23, Compound:TrCB-F3, RT:18.239	
08-Nov-21	12:50:26	Peak modified	Sample:5_211102A23, Compound:TrCB-F3, RT:18.239	NA211108MB
08-Nov-21	12:50:43	Pre modification peak	Sample:5_211102A24, Compound:TrCB-F3, RT:18.023	
08-Nov-21	12:50:43	Peak modified	Sample:5_211102A24, Compound:TrCB-F3, RT:18.023	NA211108MB
08-Nov-21	12:50:43	Pre modification peak	Sample:5_211102A24, Compound:TrCB-F3, RT:18.013	
08-Nov-21	12:50:43	Peak modified	Sample:5_211102A24, Compound:TrCB-F3, RT:18.013	NA211108MB

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Date	Time	Event	Details	Comments
08-Nov-21	12:51:29	Pre modification peak	Sample:5_211102A24, Compound:TeCB-F3, RT:16.242	
08-Nov-21	12:51:29	Peak modified	Sample:5_211102A24, Compound:TeCB-F3, RT:16.242	NA211108MB
08-Nov-21	12:51:37	Pre modification peak	Sample:5_211102A24, Compound:TeCB-F3, RT:15.674	
08-Nov-21	12:51:37	Peak modified	Sample:5_211102A24, Compound:TeCB-F3, RT:15.674	NA211108MB
08-Nov-21	12:51:37	Pre modification peak	Sample:5_211102A24, Compound:TeCB-F3, RT:15.038	
08-Nov-21	12:51:37	Peak modified	Sample:5_211102A24, Compound:TeCB-F3, RT:15.038	NA211108MB
08-Nov-21	12:52:02	Pre modification peak	Sample:5_211102A21, Compound:TeCB-F3, RT:17.426	
08-Nov-21	12:52:02	Peak modified	Sample:5_211102A21, Compound:TeCB-F3, RT:17.426	NA211108MB
08-Nov-21	12:52:14	Peak added	Sample:5_211102A22, Compound:TeCB-F3, RT:17.270	NA211108MA
08-Nov-21	12:52:14	Peak added	Sample:5_211102A22, Compound:TeCB-F3, RT:16.996	NA211108MA
08-Nov-21	12:52:31	Pre modification peak	Sample:5_211102A23, Compound:TeCB-F3, RT:16.976	
08-Nov-21	12:52:31	Peak modified	Sample:5_211102A23, Compound:TeCB-F3, RT:16.976	NA211108MB
08-Nov-21	12:52:31	Pre modification peak	Sample:5_211102A23, Compound:TeCB-F3, RT:17.113	
08-Nov-21	12:52:31	Peak modified	Sample:5_211102A23, Compound:TeCB-F3, RT:17.113	NA211108MB
08-Nov-21	12:52:54	Pre modification peak	Sample:5_211102A24, Compound:TeCB-F3, RT:16.996	
08-Nov-21	12:52:54	Peak modified	Sample:5_211102A24, Compound:TeCB-F3, RT:16.996	NA211108MB
08-Nov-21	12:52:54	Pre modification peak	Sample:5_211102A24, Compound:TeCB-F3, RT:17.132	
08-Nov-21	12:52:54	Peak modified	Sample:5_211102A24, Compound:TeCB-F3, RT:17.132	NA211108MB
08-Nov-21	12:53:18	Pre modification peak	Sample:5_211102A21, Compound:TeCB-F3, RT:18.043	
08-Nov-21	12:53:18	Peak modified	Sample:5_211102A21, Compound:TeCB-F3, RT:18.043	NA211108MB
08-Nov-21	12:53:18	Pre modification peak	Sample:5_211102A21, Compound:TeCB-F3, RT:18.121	
08-Nov-21	12:53:18	Peak modified	Sample:5_211102A21, Compound:TeCB-F3, RT:18.121	NA211108MB
08-Nov-21	12:53:32	Pre modification peak	Sample:5_211102A21, Compound:TeCB-F3, RT:17.739	
08-Nov-21	12:53:32	Peak modified	Sample:5_211102A21, Compound:TeCB-F3, RT:17.739	NA211108MB
08-Nov-21	12:53:46	Pre modification peak	Sample:5_211102A24, Compound:TeCB-F3, RT:17.857	
08-Nov-21	12:53:46	Peak modified	Sample:5_211102A24, Compound:TeCB-F3, RT:17.857	NA211108MB
08-Nov-21	12:54:13	Peak added	Sample:5_211102A23, Compound:TeCB-F4, RT:19.256	NA211108MA
08-Nov-21	12:54:23	Pre modification peak	Sample:5_211102A23, Compound:TeCB-F4, RT:19.394	
08-Nov-21	12:54:23	Peak modified	Sample:5_211102A23, Compound:TeCB-F4, RT:19.394	NA211108MB
08-Nov-21	12:54:32	Pre modification peak	Sample:5_211102A23, Compound:TeCB-F4, RT:18.793	
08-Nov-21	12:54:32	Peak modified	Sample:5_211102A23, Compound:TeCB-F4, RT:18.793	NA211108MB
08-Nov-21	12:55:03	Pre modification peak	Sample:5_211102A23, Compound:TeCB-F4, RT:19.154	
08-Nov-21	12:55:03	Peak modified	Sample:5_211102A23, Compound:TeCB-F4, RT:19.154	NA211108MS
08-Nov-21	12:55:03	Pre modification peak	Sample:5_211102A23, Compound:TeCB-F4, RT:19.163	
08-Nov-21	12:55:03	Peak modified	Sample:5_211102A23, Compound:TeCB-F4, RT:19.163	NA211108MS
08-Nov-21	12:55:20	Pre modification peak	Sample:5_211102A24, Compound:TeCB-F4, RT:19.181	
08-Nov-21	12:55:20	Peak modified	Sample:5_211102A24, Compound:TeCB-F4, RT:19.181	NA211108MA
08-Nov-21	12:55:20	Pre modification peak	Sample:5_211102A24, Compound:TeCB-F4, RT:19.172	
08-Nov-21	12:55:20	Peak modified	Sample:5_211102A24, Compound:TeCB-F4, RT:19.172	NA211108MA
08-Nov-21	12:55:31	Peak added	Sample:5_211102A24, Compound:TeCB-F4, RT:19.274	NA211108MA
08-Nov-21	12:55:31	Peak added	Sample:5_211102A24, Compound:TeCB-F4, RT:19.274	NA211108MA
08-Nov-21	12:56:07	Pre modification peak	Sample:5_211102A21, Compound:TeCB-F4, RT:20.153	
08-Nov-21	12:56:07	Peak modified	Sample:5_211102A21, Compound:TeCB-F4, RT:20.153	NA211108MB
08-Nov-21	12:56:07	Pre modification peak	Sample:5_211102A21, Compound:TeCB-F4, RT:20.264	
08-Nov-21	12:56:07	Peak modified	Sample:5_211102A21, Compound:TeCB-F4, RT:20.264	NA211108MB
08-Nov-21	12:56:18	Pre modification peak	Sample:5_211102A21, Compound:TeCB-F4, RT:20.273	
08-Nov-21	12:56:18	Peak modified	Sample:5_211102A21, Compound:TeCB-F4, RT:20.273	NA211108MB
08-Nov-21	12:56:30	Peak added	Sample:5_211102A22, Compound:TeCB-F4, RT:19.783	NA211108MA
08-Nov-21	12:56:46	Peak added	Sample:5_211102A22, Compound:TeCB-F4, RT:19.616	NA211108MA
08-Nov-21	12:56:46	Peak added	Sample:5_211102A22, Compound:TeCB-F4, RT:19.607	NA211108MA
08-Nov-21	12:57:05	Pre modification peak	Sample:5_211102A23, Compound:TeCB-F4, RT:19.773	
08-Nov-21	12:57:05	Peak modified	Sample:5_211102A23, Compound:TeCB-F4, RT:19.773	NA211108MB
08-Nov-21	12:57:05	Pre modification peak	Sample:5_211102A23, Compound:TeCB-F4, RT:19.857	

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08-Nov-21	12:57:05	Peak modified	Sample:5_211102A23, Compound:TeCB-F4, RT:19.857	NA211108MB
08-Nov-21	12:57:46	Pre modification peak	Sample:5_211102A23, Compound:TeCB-F4, RT:21.253	
08-Nov-21	12:57:46	Peak modified	Sample:5_211102A23, Compound:TeCB-F4, RT:21.253	NA211108MS
08-Nov-21	12:57:46	Pre modification peak	Sample:5_211102A23, Compound:TeCB-F4, RT:21.253	
08-Nov-21	12:57:46	Peak modified	Sample:5_211102A23, Compound:TeCB-F4, RT:21.253	NA211108MS
08-Nov-21	12:57:58	Peak added	Sample:5_211102A23, Compound:TeCB-F4, RT:21.827	NA211108MA
08-Nov-21	12:58:57	Pre modification peak	Sample:5_211102A24, Compound:TeCB-F4, RT:21.263	
08-Nov-21	12:58:57	Peak modified	Sample:5_211102A24, Compound:TeCB-F4, RT:21.263	NA211108MS
08-Nov-21	12:58:57	Pre modification peak	Sample:5_211102A24, Compound:TeCB-F4, RT:21.272	
08-Nov-21	12:58:57	Peak modified	Sample:5_211102A24, Compound:TeCB-F4, RT:21.272	NA211108MS
08-Nov-21	12:59:17	Peak added	Sample:5_211102A24, Compound:TeCB-F4, RT:21.743	NA211108MA
08-Nov-21	13:00:43	Pre modification peak	Sample:5_211102A17, Compound:PeCB-F4, RT:19.228	
08-Nov-21	13:00:43	Peak modified	Sample:5_211102A17, Compound:PeCB-F4, RT:19.228	NA211108MJ
08-Nov-21	13:00:43	Pre modification peak	Sample:5_211102A17, Compound:PeCB-F4, RT:18.534	
08-Nov-21	13:00:43	Peak modified	Sample:5_211102A17, Compound:PeCB-F4, RT:18.534	NA211108MJ
08-Nov-21	13:00:43	Pre modification peak	Sample:5_211102A17, Compound:PeCB-F4, RT:18.534	
08-Nov-21	13:00:43	Peak modified	Sample:5_211102A17, Compound:PeCB-F4, RT:18.534	NA211108MJ
08-Nov-21	13:00:43	Pre modification peak	Sample:5_211102A17, Compound:PeCB-F4, RT:18.534	
08-Nov-21	13:00:43	Peak modified	Sample:5_211102A17, Compound:PeCB-F4, RT:18.534	NA211108MJ
08-Nov-21	13:00:43	Pre modification peak	Sample:5_211102A17, Compound:PeCB-F4, RT:18.534	
08-Nov-21	13:00:43	Peak modified	Sample:5_211102A17, Compound:PeCB-F4, RT:18.534	NA211108MJ
08-Nov-21	13:00:43	Pre modification peak	Sample:5_211102A17, Compound:PeCB-F4, RT:19.607	
08-Nov-21	13:00:43	Peak modified	Sample:5_211102A17, Compound:PeCB-F4, RT:19.607	NA211108MJ
08-Nov-21	13:00:43	Pre modification peak	Sample:5_211102A17, Compound:PeCB-F4, RT:19.228	
08-Nov-21	13:00:43	Peak modified	Sample:5_211102A17, Compound:PeCB-F4, RT:19.228	NA211108MJ
08-Nov-21	13:00:43	Pre modification peak	Sample:5_211102A17, Compound:PeCB-F4, RT:18.534	
08-Nov-21	13:00:43	Peak modified	Sample:5_211102A17, Compound:PeCB-F4, RT:18.534	NA211108MJ
08-Nov-21	13:00:43	Pre modification peak	Sample:5_211102A17, Compound:PeCB-F4, RT:18.534	
08-Nov-21	13:00:43	Peak modified	Sample:5_211102A17, Compound:PeCB-F4, RT:18.534	NA211108MJ
08-Nov-21	13:00:43	Pre modification peak	Sample:5_211102A17, Compound:PeCB-F4, RT:18.534	
08-Nov-21	13:00:43	Peak modified	Sample:5_211102A17, Compound:PeCB-F4, RT:18.534	NA211108MJ
08-Nov-21	13:00:43	Pre modification peak	Sample:5_211102A17, Compound:PeCB-F4, RT:18.534	
08-Nov-21	13:00:43	Peak modified	Sample:5_211102A17, Compound:PeCB-F4, RT:18.534	NA211108MJ
08-Nov-21	13:00:43	Pre modification peak	Sample:5_211102A17, Compound:PeCB-F4, RT:19.616	
08-Nov-21	13:00:43	Peak modified	Sample:5_211102A17, Compound:PeCB-F4, RT:19.616	NA211108MJ
08-Nov-21	13:01:11	Pre modification peak	Sample:5_211102A17, Compound:PeCB-F4, RT:18.534	
08-Nov-21	13:01:11	Peak modified	Sample:5_211102A17, Compound:PeCB-F4, RT:18.534	NA211108MJ
08-Nov-21	13:01:11	Pre modification peak	Sample:5_211102A17, Compound:PeCB-F4, RT:21.679	
08-Nov-21	13:01:11	Peak modified	Sample:5_211102A17, Compound:PeCB-F4, RT:21.679	NA211108MJ
08-Nov-21	13:01:11	Pre modification peak	Sample:5_211102A17, Compound:PeCB-F4, RT:18.534	
08-Nov-21	13:01:11	Peak modified	Sample:5_211102A17, Compound:PeCB-F4, RT:18.534	NA211108MJ
08-Nov-21	13:01:11	Pre modification peak	Sample:5_211102A17, Compound:PeCB-F4, RT:18.534	
08-Nov-21	13:01:11	Peak modified	Sample:5_211102A17, Compound:PeCB-F4, RT:18.534	NA211108MJ
08-Nov-21	13:01:11	Pre modification peak	Sample:5_211102A17, Compound:PeCB-F4, RT:21.679	
08-Nov-21	13:01:11	Peak modified	Sample:5_211102A17, Compound:PeCB-F4, RT:21.679	NA211108MJ
08-Nov-21	13:01:11	Pre modification peak	Sample:5_211102A17, Compound:PeCB-F4, RT:18.534	
08-Nov-21	13:01:11	Peak modified	Sample:5_211102A17, Compound:PeCB-F4, RT:18.534	NA211108MJ
08-Nov-21	13:01:49	Pre modification peak	Sample:5_211102A22, Compound:PeCB-F4, RT:19.154	
08-Nov-21	13:01:49	Peak modified	Sample:5_211102A22, Compound:PeCB-F4, RT:19.154	NA211108MB
08-Nov-21	13:01:49	Pre modification peak	Sample:5_211102A22, Compound:PeCB-F4, RT:19.163	
08-Nov-21	13:01:49	Peak modified	Sample:5_211102A22, Compound:PeCB-F4, RT:19.163	NA211108MB
08-Nov-21	13:01:49	Pre modification peak	Sample:5_211102A22, Compound:PeCB-F4, RT:19.191	
08-Nov-21	13:01:49	Peak modified	Sample:5_211102A22, Compound:PeCB-F4, RT:19.191	NA211108MB

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08-Nov-21	13:02:21	Pre modification peak	Sample:5_211102A23, Compound:PeCB-F4, RT:19.126	
08-Nov-21	13:02:21	Peak modified	Sample:5_211102A23, Compound:PeCB-F4, RT:19.126	NA211108MJ
08-Nov-21	13:02:21	Pre modification peak	Sample:5_211102A23, Compound:PeCB-F4, RT:18.534	
08-Nov-21	13:02:21	Peak modified	Sample:5_211102A23, Compound:PeCB-F4, RT:18.534	NA211108MJ
08-Nov-21	13:02:21	Pre modification peak	Sample:5_211102A23, Compound:PeCB-F4, RT:19.302	
08-Nov-21	13:02:21	Peak modified	Sample:5_211102A23, Compound:PeCB-F4, RT:19.302	NA211108MJ
08-Nov-21	13:02:21	Pre modification peak	Sample:5_211102A23, Compound:PeCB-F4, RT:18.534	
08-Nov-21	13:02:21	Peak modified	Sample:5_211102A23, Compound:PeCB-F4, RT:18.534	NA211108MJ
08-Nov-21	13:02:21	Pre modification peak	Sample:5_211102A23, Compound:PeCB-F4, RT:19.302	
08-Nov-21	13:02:21	Peak modified	Sample:5_211102A23, Compound:PeCB-F4, RT:19.302	NA211108MJ
08-Nov-21	13:03:36	Pre modification peak	Sample:5_211102A24, Compound:PeCB-F4, RT:19.135	
08-Nov-21	13:03:36	Peak modified	Sample:5_211102A24, Compound:PeCB-F4, RT:19.135	NA211108MJ
08-Nov-21	13:03:36	Pre modification peak	Sample:5_211102A24, Compound:PeCB-F4, RT:19.219	
08-Nov-21	13:03:36	Peak modified	Sample:5_211102A24, Compound:PeCB-F4, RT:19.219	NA211108MJ
08-Nov-21	13:03:36	Pre modification peak	Sample:5_211102A24, Compound:PeCB-F4, RT:19.228	
08-Nov-21	13:03:36	Peak modified	Sample:5_211102A24, Compound:PeCB-F4, RT:19.228	NA211108MJ
08-Nov-21	13:03:36	Pre modification peak	Sample:5_211102A24, Compound:PeCB-F4, RT:19.348	
08-Nov-21	13:03:36	Peak modified	Sample:5_211102A24, Compound:PeCB-F4, RT:19.348	NA211108MJ
08-Nov-21	13:03:36	Pre modification peak	Sample:5_211102A24, Compound:PeCB-F4, RT:19.135	
08-Nov-21	13:03:36	Peak modified	Sample:5_211102A24, Compound:PeCB-F4, RT:19.135	NA211108MJ
08-Nov-21	13:03:36	Pre modification peak	Sample:5_211102A24, Compound:PeCB-F4, RT:19.302	
08-Nov-21	13:03:36	Peak modified	Sample:5_211102A24, Compound:PeCB-F4, RT:19.302	NA211108MJ
08-Nov-21	13:04:10	Pre modification peak	Sample:5_211102A21, Compound:PeCB-F4, RT:20.652	
08-Nov-21	13:04:10	Peak modified	Sample:5_211102A21, Compound:PeCB-F4, RT:20.652	NA211108MB
08-Nov-21	13:04:25	Process Calibrate		
08-Nov-21	13:04:25	Process Quantify		
08-Nov-21	13:04:39	Pre modification peak	Sample:5_211102A24, Compound:PeCB-F4, RT:20.162	
08-Nov-21	13:04:39	Peak modified	Sample:5_211102A24, Compound:PeCB-F4, RT:20.162	
08-Nov-21	13:04:46	Peak modified	Sample:5_211102A24, Compound:PeCB-F4, RT:18.534	
08-Nov-21	13:05:28	Pre modification peak	Sample:5_211102A21, Compound:PeCB-F4, RT:21.253	
08-Nov-21	13:05:28	Peak modified	Sample:5_211102A21, Compound:PeCB-F4, RT:21.253	NA211108MJ
08-Nov-21	13:05:28	Pre modification peak	Sample:5_211102A21, Compound:PeCB-F4, RT:18.534	
08-Nov-21	13:05:28	Peak modified	Sample:5_211102A21, Compound:PeCB-F4, RT:18.534	NA211108MJ
08-Nov-21	13:05:28	Pre modification peak	Sample:5_211102A21, Compound:PeCB-F4, RT:21.318	
08-Nov-21	13:05:28	Peak modified	Sample:5_211102A21, Compound:PeCB-F4, RT:21.318	NA211108MJ
08-Nov-21	13:05:28	Pre modification peak	Sample:5_211102A21, Compound:PeCB-F4, RT:18.534	
08-Nov-21	13:05:28	Peak modified	Sample:5_211102A21, Compound:PeCB-F4, RT:18.534	NA211108MJ
08-Nov-21	13:05:47	Pre modification peak	Sample:5_211102A22, Compound:PeCB-F4, RT:20.966	
08-Nov-21	13:05:47	Peak modified	Sample:5_211102A22, Compound:PeCB-F4, RT:20.966	NA211108MB
08-Nov-21	13:06:07	Pre modification peak	Sample:5_211102A23, Compound:PeCB-F4, RT:21.309	
08-Nov-21	13:06:07	Peak modified	Sample:5_211102A23, Compound:PeCB-F4, RT:21.309	NA211108MJ
08-Nov-21	13:06:07	Pre modification peak	Sample:5_211102A23, Compound:PeCB-F4, RT:18.534	
08-Nov-21	13:06:07	Peak modified	Sample:5_211102A23, Compound:PeCB-F4, RT:18.534	NA211108MJ
08-Nov-21	13:06:07	Pre modification peak	Sample:5_211102A23, Compound:PeCB-F4, RT:21.309	
08-Nov-21	13:06:07	Peak modified	Sample:5_211102A23, Compound:PeCB-F4, RT:21.309	NA211108MJ
08-Nov-21	13:06:07	Pre modification peak	Sample:5_211102A23, Compound:PeCB-F4, RT:18.534	
08-Nov-21	13:06:07	Peak modified	Sample:5_211102A23, Compound:PeCB-F4, RT:18.534	NA211108MJ
08-Nov-21	13:06:25	Pre modification peak	Sample:5_211102A24, Compound:PeCB-F4, RT:21.318	
08-Nov-21	13:06:25	Peak modified	Sample:5_211102A24, Compound:PeCB-F4, RT:21.318	NA211108MJ
08-Nov-21	13:06:25	Pre modification peak	Sample:5_211102A24, Compound:PeCB-F4, RT:18.534	
08-Nov-21	13:06:25	Peak modified	Sample:5_211102A24, Compound:PeCB-F4, RT:18.534	NA211108MJ
08-Nov-21	13:06:25	Pre modification peak	Sample:5_211102A24, Compound:PeCB-F4, RT:21.318	
08-Nov-21	13:06:25	Peak modified	Sample:5_211102A24, Compound:PeCB-F4, RT:21.318	NA211108MJ

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08-Nov-21	13:06:25	Pre modification peak	Sample:5_211102A24, Compound:PeCB-F4, RT:18.534	
08-Nov-21	13:06:25	Peak modified	Sample:5_211102A24, Compound:PeCB-F4, RT:18.534	NA211108MJ
08-Nov-21	13:07:06	Pre modification peak	Sample:5_211102A21, Compound:PeCB-F4, RT:21.734	
08-Nov-21	13:07:06	Peak modified	Sample:5_211102A21, Compound:PeCB-F4, RT:21.734	NA211108MJ
08-Nov-21	13:07:06	Pre modification peak	Sample:5_211102A21, Compound:PeCB-F4, RT:21.734	
08-Nov-21	13:07:06	Peak modified	Sample:5_211102A21, Compound:PeCB-F4, RT:21.734	NA211108MJ
08-Nov-21	13:07:06	Pre modification peak	Sample:5_211102A21, Compound:PeCB-F4, RT:21.817	
08-Nov-21	13:07:06	Peak modified	Sample:5_211102A21, Compound:PeCB-F4, RT:21.817	NA211108MJ
08-Nov-21	13:07:35	Peak added	Sample:5_211102A22, Compound:PeCB-F4, RT:21.743	NA211108MJ
08-Nov-21	13:07:35	Pre modification peak	Sample:5_211102A22, Compound:PeCB-F4, RT:21.734	
08-Nov-21	13:07:35	Peak modified	Sample:5_211102A22, Compound:PeCB-F4, RT:21.734	NA211108MJ
08-Nov-21	13:07:35	Pre modification peak	Sample:5_211102A22, Compound:PeCB-F4, RT:21.780	
08-Nov-21	13:07:35	Peak modified	Sample:5_211102A22, Compound:PeCB-F4, RT:21.780	NA211108MJ
08-Nov-21	13:08:03	Pre modification peak	Sample:5_211102A23, Compound:PeCB-F4, RT:18.534	
08-Nov-21	13:08:03	Peak modified	Sample:5_211102A23, Compound:PeCB-F4, RT:18.534	NA211108MJ
08-Nov-21	13:08:03	Pre modification peak	Sample:5_211102A23, Compound:PeCB-F4, RT:21.725	
08-Nov-21	13:08:03	Peak modified	Sample:5_211102A23, Compound:PeCB-F4, RT:21.725	NA211108MJ
08-Nov-21	13:08:03	Pre modification peak	Sample:5_211102A23, Compound:PeCB-F4, RT:21.827	
08-Nov-21	13:08:03	Peak modified	Sample:5_211102A23, Compound:PeCB-F4, RT:21.827	NA211108MJ
08-Nov-21	13:08:03	Pre modification peak	Sample:5_211102A23, Compound:PeCB-F4, RT:21.521	
08-Nov-21	13:08:03	Peak modified	Sample:5_211102A23, Compound:PeCB-F4, RT:21.521	NA211108MJ
08-Nov-21	13:08:03	Pre modification peak	Sample:5_211102A23, Compound:PeCB-F4, RT:21.725	
08-Nov-21	13:08:03	Peak modified	Sample:5_211102A23, Compound:PeCB-F4, RT:21.725	NA211108MJ
08-Nov-21	13:08:03	Pre modification peak	Sample:5_211102A23, Compound:PeCB-F4, RT:21.845	
08-Nov-21	13:08:03	Peak modified	Sample:5_211102A23, Compound:PeCB-F4, RT:21.845	NA211108MJ
08-Nov-21	13:08:23	Pre modification peak	Sample:5_211102A23, Compound:PeCB-F4, RT:22.076	
08-Nov-21	13:08:23	Peak modified	Sample:5_211102A23, Compound:PeCB-F4, RT:22.076	NA211108MB
08-Nov-21	13:08:23	Pre modification peak	Sample:5_211102A23, Compound:PeCB-F4, RT:22.086	
08-Nov-21	13:08:23	Peak modified	Sample:5_211102A23, Compound:PeCB-F4, RT:22.086	NA211108MB
08-Nov-21	13:08:44	Pre modification peak	Sample:5_211102A23, Compound:PeCB-F4, RT:22.271	
08-Nov-21	13:08:44	Peak modified	Sample:5_211102A23, Compound:PeCB-F4, RT:22.271	NA211108MB
08-Nov-21	13:08:44	Pre modification peak	Sample:5_211102A23, Compound:PeCB-F4, RT:22.271	
08-Nov-21	13:08:44	Peak modified	Sample:5_211102A23, Compound:PeCB-F4, RT:22.271	NA211108MB
08-Nov-21	13:09:01	Peak modified	Sample:5_211102A23, Compound:PeCB-F4, RT:21.725	NA211108MB
08-Nov-21	13:09:01	Peak modified	Sample:5_211102A23, Compound:PeCB-F4, RT:21.725	NA211108MB
08-Nov-21	13:09:31	Pre modification peak	Sample:5_211102A24, Compound:PeCB-F4, RT:21.540	
08-Nov-21	13:09:31	Peak modified	Sample:5_211102A24, Compound:PeCB-F4, RT:21.540	NA211108MJ
08-Nov-21	13:09:31	Pre modification peak	Sample:5_211102A24, Compound:PeCB-F4, RT:21.734	
08-Nov-21	13:09:31	Peak modified	Sample:5_211102A24, Compound:PeCB-F4, RT:21.734	NA211108MJ
08-Nov-21	13:09:31	Pre modification peak	Sample:5_211102A24, Compound:PeCB-F4, RT:21.827	
08-Nov-21	13:09:31	Peak modified	Sample:5_211102A24, Compound:PeCB-F4, RT:21.827	NA211108MJ
08-Nov-21	13:09:31	Pre modification peak	Sample:5_211102A24, Compound:PeCB-F4, RT:21.549	
08-Nov-21	13:09:31	Peak modified	Sample:5_211102A24, Compound:PeCB-F4, RT:21.549	NA211108MJ
08-Nov-21	13:09:31	Pre modification peak	Sample:5_211102A24, Compound:PeCB-F4, RT:21.734	
08-Nov-21	13:09:31	Peak modified	Sample:5_211102A24, Compound:PeCB-F4, RT:21.734	NA211108MJ
08-Nov-21	13:09:31	Pre modification peak	Sample:5_211102A24, Compound:PeCB-F4, RT:21.854	
08-Nov-21	13:09:31	Peak modified	Sample:5_211102A24, Compound:PeCB-F4, RT:21.854	NA211108MJ
08-Nov-21	13:09:41	Pre modification peak	Sample:5_211102A24, Compound:PeCB-F4, RT:21.928	
08-Nov-21	13:09:41	Peak modified	Sample:5_211102A24, Compound:PeCB-F4, RT:21.928	NA211108MB
08-Nov-21	13:10:16	Pre modification peak	Sample:5_211102A21, Compound:PeCB-F5, RT:23.278	
08-Nov-21	13:10:16	Peak modified	Sample:5_211102A21, Compound:PeCB-F5, RT:23.278	NA211108MB
08-Nov-21	13:10:16	Pre modification peak	Sample:5_211102A21, Compound:PeCB-F5, RT:23.278	
08-Nov-21	13:10:16	Peak modified	Sample:5_211102A21, Compound:PeCB-F5, RT:23.278	NA211108MB

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08-Nov-21	13:10:31	Pre modification peak	Sample:5_211102A22, Compound:PeCB-F5, RT:23.290	
08-Nov-21	13:10:31	Peak modified	Sample:5_211102A22, Compound:PeCB-F5, RT:23.290	NA211108MB
08-Nov-21	13:10:31	Pre modification peak	Sample:5_211102A22, Compound:PeCB-F5, RT:23.278	
08-Nov-21	13:10:31	Peak modified	Sample:5_211102A22, Compound:PeCB-F5, RT:23.278	NA211108MB
08-Nov-21	13:10:55	Pre modification peak	Sample:5_211102A23, Compound:PeCB-F5, RT:23.037	
08-Nov-21	13:10:55	Peak modified	Sample:5_211102A23, Compound:PeCB-F5, RT:23.037	NA211108MS
08-Nov-21	13:10:55	Peak added	Sample:5_211102A23, Compound:PeCB-F5, RT:23.085	NA211108MS
08-Nov-21	13:10:55	Pre modification peak	Sample:5_211102A23, Compound:PeCB-F5, RT:23.278	
08-Nov-21	13:10:55	Peak modified	Sample:5_211102A23, Compound:PeCB-F5, RT:23.278	NA211108MS
08-Nov-21	13:11:11	Pre modification peak	Sample:5_211102A23, Compound:PeCB-F5, RT:23.472	
08-Nov-21	13:11:11	Peak modified	Sample:5_211102A23, Compound:PeCB-F5, RT:23.472	NA211108MB
08-Nov-21	13:11:56	Pre modification peak	Sample:5_211102A24, Compound:PeCB-F5, RT:23.036	
08-Nov-21	13:11:56	Peak modified	Sample:5_211102A24, Compound:PeCB-F5, RT:23.036	NA211108MB
08-Nov-21	13:11:56	Pre modification peak	Sample:5_211102A24, Compound:PeCB-F5, RT:23.580	
08-Nov-21	13:11:56	Peak modified	Sample:5_211102A24, Compound:PeCB-F5, RT:23.580	NA211108MB
08-Nov-21	13:11:56	Peak added	Sample:5_211102A24, Compound:PeCB-F5, RT:23.109	NA211108MB
08-Nov-21	13:11:56	Pre modification peak	Sample:5_211102A24, Compound:PeCB-F5, RT:23.048	
08-Nov-21	13:11:56	Peak modified	Sample:5_211102A24, Compound:PeCB-F5, RT:23.048	NA211108MB
08-Nov-21	13:11:56	Pre modification peak	Sample:5_211102A24, Compound:PeCB-F5, RT:23.278	
08-Nov-21	13:11:56	Peak modified	Sample:5_211102A24, Compound:PeCB-F5, RT:23.278	NA211108MB
08-Nov-21	13:11:56	Pre modification peak	Sample:5_211102A24, Compound:PeCB-F5, RT:23.580	
08-Nov-21	13:11:56	Peak modified	Sample:5_211102A24, Compound:PeCB-F5, RT:23.580	NA211108MB
08-Nov-21	13:11:56	Peak added	Sample:5_211102A24, Compound:PeCB-F5, RT:23.097	NA211108MB
08-Nov-21	13:12:30	Pre modification peak	Sample:5_211102A22, Compound:PeCB-F5, RT:23.931	
08-Nov-21	13:12:30	Peak modified	Sample:5_211102A22, Compound:PeCB-F5, RT:23.931	NA211108MB
08-Nov-21	13:14:19	Pre modification peak	Sample:5_211102A23, Compound:PeCB-F5, RT:25.526	
08-Nov-21	13:14:19	Peak modified	Sample:5_211102A23, Compound:PeCB-F5, RT:25.526	NA211108MS
08-Nov-21	13:14:19	Pre modification peak	Sample:5_211102A23, Compound:PeCB-F5, RT:25.514	
08-Nov-21	13:14:19	Peak modified	Sample:5_211102A23, Compound:PeCB-F5, RT:25.514	NA211108MS
08-Nov-21	13:14:50	Pre modification peak	Sample:5_211102A21, Compound:HxCB-F4, RT:20.486	
08-Nov-21	13:14:50	Peak modified	Sample:5_211102A21, Compound:HxCB-F4, RT:20.486	NA211108MJ
08-Nov-21	13:14:50	Pre modification peak	Sample:5_211102A21, Compound:HxCB-F4, RT:20.504	
08-Nov-21	13:14:50	Peak modified	Sample:5_211102A21, Compound:HxCB-F4, RT:20.504	NA211108MJ
08-Nov-21	13:15:06	Pre modification peak	Sample:5_211102A23, Compound:HxCB-F4, RT:20.735	
08-Nov-21	13:15:06	Peak modified	Sample:5_211102A23, Compound:HxCB-F4, RT:20.735	NA211108MB
08-Nov-21	13:15:29	Pre modification peak	Sample:5_211102A24, Compound:HxCB-F4, RT:20.744	
08-Nov-21	13:15:29	Peak modified	Sample:5_211102A24, Compound:HxCB-F4, RT:20.744	NA211108MB
08-Nov-21	13:16:11	Pre modification peak	Sample:5_211102A21, Compound:HxCB-F4, RT:22.178	
08-Nov-21	13:16:11	Peak modified	Sample:5_211102A21, Compound:HxCB-F4, RT:22.178	NA211108MB
08-Nov-21	13:16:11	Pre modification peak	Sample:5_211102A21, Compound:HxCB-F4, RT:22.252	
08-Nov-21	13:16:11	Peak modified	Sample:5_211102A21, Compound:HxCB-F4, RT:22.252	NA211108MB
08-Nov-21	13:16:11	Pre modification peak	Sample:5_211102A21, Compound:HxCB-F4, RT:22.197	
08-Nov-21	13:16:11	Peak modified	Sample:5_211102A21, Compound:HxCB-F4, RT:22.197	NA211108MB
08-Nov-21	13:16:11	Pre modification peak	Sample:5_211102A21, Compound:HxCB-F4, RT:22.271	
08-Nov-21	13:16:11	Peak modified	Sample:5_211102A21, Compound:HxCB-F4, RT:22.271	NA211108MB
08-Nov-21	13:16:28	Pre modification peak	Sample:5_211102A23, Compound:HxCB-F4, RT:22.169	
08-Nov-21	13:16:28	Peak modified	Sample:5_211102A23, Compound:HxCB-F4, RT:22.169	NA211108MS
08-Nov-21	13:16:28	Peak added	Sample:5_211102A23, Compound:HxCB-F4, RT:22.261	NA211108MS
08-Nov-21	13:16:45	Pre modification peak	Sample:5_211102A24, Compound:HxCB-F4, RT:22.187	
08-Nov-21	13:16:45	Peak modified	Sample:5_211102A24, Compound:HxCB-F4, RT:22.187	NA211108MS
08-Nov-21	13:16:45	Peak added	Sample:5_211102A24, Compound:HxCB-F4, RT:22.252	NA211108MS
08-Nov-21	13:17:21	Pre modification peak	Sample:5_211102A21, Compound:HxCB-F5, RT:22.674	
08-Nov-21	13:17:21	Peak modified	Sample:5_211102A21, Compound:HxCB-F5, RT:22.674	NA211108MB

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08-Nov-21	13:17:21	Pre modification peak	Sample:5_211102A21, Compound:HxCB-F5, RT:22.674	
08-Nov-21	13:17:21	Peak modified	Sample:5_211102A21, Compound:HxCB-F5, RT:22.674	NA211108MB
08-Nov-21	13:17:40	Pre modification peak	Sample:5_211102A22, Compound:HxCB-F5, RT:22.674	
08-Nov-21	13:17:40	Peak modified	Sample:5_211102A22, Compound:HxCB-F5, RT:22.674	NA211108MB
08-Nov-21	13:17:58	Peak added	Sample:5_211102A23, Compound:HxCB-F5, RT:22.662	NA211108MA
08-Nov-21	13:17:58	Peak added	Sample:5_211102A23, Compound:HxCB-F5, RT:22.662	NA211108MA
08-Nov-21	13:18:22	Pre modification peak	Sample:5_211102A24, Compound:HxCB-F5, RT:22.674	
08-Nov-21	13:18:22	Peak modified	Sample:5_211102A24, Compound:HxCB-F5, RT:22.674	NA211108MB
08-Nov-21	13:18:22	Pre modification peak	Sample:5_211102A24, Compound:HxCB-F5, RT:22.674	
08-Nov-21	13:18:22	Peak modified	Sample:5_211102A24, Compound:HxCB-F5, RT:22.674	NA211108MB
08-Nov-21	13:18:49	Pre modification peak	Sample:5_211102A24, Compound:HxCB-F5, RT:22.988	
08-Nov-21	13:18:49	Peak modified	Sample:5_211102A24, Compound:HxCB-F5, RT:22.988	NA211108MB
08-Nov-21	13:18:49	Pre modification peak	Sample:5_211102A24, Compound:HxCB-F5, RT:23.121	
08-Nov-21	13:18:49	Peak modified	Sample:5_211102A24, Compound:HxCB-F5, RT:23.121	NA211108MB
08-Nov-21	13:18:49	Pre modification peak	Sample:5_211102A24, Compound:HxCB-F5, RT:23.109	
08-Nov-21	13:18:49	Peak modified	Sample:5_211102A24, Compound:HxCB-F5, RT:23.109	NA211108MB
08-Nov-21	13:19:18	Pre modification peak	Sample:5_211102A21, Compound:HxCB-F5, RT:24.341	
08-Nov-21	13:19:18	Peak modified	Sample:5_211102A21, Compound:HxCB-F5, RT:24.341	NA211108MB
08-Nov-21	13:19:32	Pre modification peak	Sample:5_211102A22, Compound:HxCB-F5, RT:24.208	
08-Nov-21	13:19:32	Peak modified	Sample:5_211102A22, Compound:HxCB-F5, RT:24.208	NA211108MB
08-Nov-21	13:20:03	Pre modification peak	Sample:5_211102A17, Compound:HxCB-F5, RT:24.752	
08-Nov-21	13:20:03	Peak modified	Sample:5_211102A17, Compound:HxCB-F5, RT:24.752	NA211108MJ
08-Nov-21	13:20:03	Pre modification peak	Sample:5_211102A17, Compound:HxCB-F5, RT:22.638	
08-Nov-21	13:20:03	Peak modified	Sample:5_211102A17, Compound:HxCB-F5, RT:22.638	NA211108MJ
08-Nov-21	13:20:03	Pre modification peak	Sample:5_211102A17, Compound:HxCB-F5, RT:24.752	
08-Nov-21	13:20:03	Peak modified	Sample:5_211102A17, Compound:HxCB-F5, RT:24.752	NA211108MJ
08-Nov-21	13:20:03	Pre modification peak	Sample:5_211102A17, Compound:HxCB-F5, RT:22.638	
08-Nov-21	13:20:03	Peak modified	Sample:5_211102A17, Compound:HxCB-F5, RT:22.638	NA211108MJ
08-Nov-21	13:20:22	Pre modification peak	Sample:5_211102A17, Compound:HxCB-F5, RT:24.909	
08-Nov-21	13:20:22	Peak modified	Sample:5_211102A17, Compound:HxCB-F5, RT:24.909	NA211108MS
08-Nov-21	13:20:22	Pre modification peak	Sample:5_211102A17, Compound:HxCB-F5, RT:25.006	
08-Nov-21	13:20:22	Peak modified	Sample:5_211102A17, Compound:HxCB-F5, RT:25.006	NA211108MS
08-Nov-21	13:20:48	Pre modification peak	Sample:5_211102A21, Compound:HxCB-F5, RT:24.728	
08-Nov-21	13:20:48	Peak modified	Sample:5_211102A21, Compound:HxCB-F5, RT:24.728	NA211108MJ
08-Nov-21	13:20:48	Pre modification peak	Sample:5_211102A21, Compound:HxCB-F5, RT:24.740	
08-Nov-21	13:20:48	Peak modified	Sample:5_211102A21, Compound:HxCB-F5, RT:24.740	NA211108MJ
08-Nov-21	13:20:48	Pre modification peak	Sample:5_211102A21, Compound:HxCB-F5, RT:22.638	
08-Nov-21	13:20:48	Peak modified	Sample:5_211102A21, Compound:HxCB-F5, RT:22.638	NA211108MJ
08-Nov-21	13:21:12	Pre modification peak	Sample:5_211102A23, Compound:HxCB-F5, RT:24.716	
08-Nov-21	13:21:12	Peak modified	Sample:5_211102A23, Compound:HxCB-F5, RT:24.716	NA211108MJ
08-Nov-21	13:21:12	Pre modification peak	Sample:5_211102A23, Compound:HxCB-F5, RT:22.638	
08-Nov-21	13:21:12	Peak modified	Sample:5_211102A23, Compound:HxCB-F5, RT:22.638	NA211108MJ
08-Nov-21	13:21:12	Pre modification peak	Sample:5_211102A23, Compound:HxCB-F5, RT:24.716	
08-Nov-21	13:21:12	Peak modified	Sample:5_211102A23, Compound:HxCB-F5, RT:24.716	NA211108MJ
08-Nov-21	13:21:12	Pre modification peak	Sample:5_211102A23, Compound:HxCB-F5, RT:22.638	
08-Nov-21	13:21:12	Peak modified	Sample:5_211102A23, Compound:HxCB-F5, RT:22.638	NA211108MJ
08-Nov-21	13:21:35	Pre modification peak	Sample:5_211102A24, Compound:HxCB-F5, RT:22.638	
08-Nov-21	13:21:35	Peak modified	Sample:5_211102A24, Compound:HxCB-F5, RT:22.638	NA211108MJ
08-Nov-21	13:21:35	Pre modification peak	Sample:5_211102A24, Compound:HxCB-F5, RT:24.728	
08-Nov-21	13:21:35	Peak modified	Sample:5_211102A24, Compound:HxCB-F5, RT:24.728	NA211108MJ
08-Nov-21	13:21:35	Pre modification peak	Sample:5_211102A24, Compound:HxCB-F5, RT:22.638	
08-Nov-21	13:21:35	Peak modified	Sample:5_211102A24, Compound:HxCB-F5, RT:22.638	NA211108MJ
08-Nov-21	13:21:35	Pre modification peak	Sample:5_211102A24, Compound:HxCB-F5, RT:24.668	

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08-Nov-21	13:21:35	Peak modified	Sample:5_211102A24, Compound:HxCB-F5, RT:24.668	NA211108MJ
08-Nov-21	13:21:57	Pre modification peak	Sample:5_211102A24, Compound:HxCB-F5, RT:24.559	
08-Nov-21	13:21:57	Peak modified	Sample:5_211102A24, Compound:HxCB-F5, RT:24.559	NA211108MB
08-Nov-21	13:22:32	Pre modification peak	Sample:5_211102A21, Compound:HxCB-F5, RT:25.586	
08-Nov-21	13:22:32	Peak modified	Sample:5_211102A21, Compound:HxCB-F5, RT:25.586	NA211108MB
08-Nov-21	13:22:40	Pre modification peak	Sample:5_211102A21, Compound:HxCB-F5, RT:26.432	
08-Nov-21	13:22:40	Peak modified	Sample:5_211102A21, Compound:HxCB-F5, RT:26.432	NA211108MB
08-Nov-21	13:22:56	Pre modification peak	Sample:5_211102A21, Compound:HxCB-F5, RT:27.036	
08-Nov-21	13:22:56	Peak modified	Sample:5_211102A21, Compound:HxCB-F5, RT:27.036	NA211108MB
08-Nov-21	13:22:56	Pre modification peak	Sample:5_211102A21, Compound:HxCB-F5, RT:22.638	
08-Nov-21	13:22:56	Peak modified	Sample:5_211102A21, Compound:HxCB-F5, RT:22.638	NA211108MB
08-Nov-21	13:22:56	Pre modification peak	Sample:5_211102A21, Compound:HxCB-F5, RT:27.036	
08-Nov-21	13:22:56	Peak modified	Sample:5_211102A21, Compound:HxCB-F5, RT:27.036	NA211108MB
08-Nov-21	13:23:30	Pre modification peak	Sample:5_211102A23, Compound:HxCB-F5, RT:26.408	
08-Nov-21	13:23:30	Peak modified	Sample:5_211102A23, Compound:HxCB-F5, RT:26.408	NA211108MB
08-Nov-21	13:23:42	Pre modification peak	Sample:5_211102A24, Compound:HxCB-F5, RT:26.420	
08-Nov-21	13:23:42	Peak modified	Sample:5_211102A24, Compound:HxCB-F5, RT:26.420	NA211108MB
08-Nov-21	13:23:56	Pre modification peak	Sample:5_211102A24, Compound:HxCB-F5, RT:25.973	
08-Nov-21	13:23:56	Peak modified	Sample:5_211102A24, Compound:HxCB-F5, RT:25.973	
08-Nov-21	13:24:24	Pre modification peak	Sample:5_211102A21, Compound:HxCB-F5, RT:28.704	
08-Nov-21	13:24:24	Peak modified	Sample:5_211102A21, Compound:HxCB-F5, RT:28.704	NA211108MB
08-Nov-21	13:24:35	Pre modification peak	Sample:5_211102A22, Compound:HxCB-F5, RT:22.638	
08-Nov-21	13:24:35	Peak modified	Sample:5_211102A22, Compound:HxCB-F5, RT:22.638	
08-Nov-21	13:24:58	Pre modification peak	Sample:5_211102A21, Compound:HpCB-F5, RT:23.725	
08-Nov-21	13:24:58	Peak modified	Sample:5_211102A21, Compound:HpCB-F5, RT:23.725	NA211108MB
08-Nov-21	13:24:58	Pre modification peak	Sample:5_211102A21, Compound:HpCB-F5, RT:23.810	
08-Nov-21	13:24:58	Peak modified	Sample:5_211102A21, Compound:HpCB-F5, RT:23.810	NA211108MB
08-Nov-21	13:25:18	Pre modification peak	Sample:5_211102A23, Compound:HpCB-F5, RT:23.725	
08-Nov-21	13:25:18	Peak modified	Sample:5_211102A23, Compound:HpCB-F5, RT:23.725	NA211108MB
08-Nov-21	13:25:18	Pre modification peak	Sample:5_211102A23, Compound:HpCB-F5, RT:23.725	
08-Nov-21	13:25:18	Peak modified	Sample:5_211102A23, Compound:HpCB-F5, RT:23.725	NA211108MB
08-Nov-21	13:25:34	Pre modification peak	Sample:5_211102A24, Compound:HpCB-F5, RT:24.184	
08-Nov-21	13:25:34	Peak modified	Sample:5_211102A24, Compound:HpCB-F5, RT:24.184	NA211108MB
08-Nov-21	13:26:32	Pre modification peak	Sample:5_211102A21, Compound:HpCB-F5, RT:25.864	
08-Nov-21	13:26:32	Peak modified	Sample:5_211102A21, Compound:HpCB-F5, RT:25.864	NA211108MA
08-Nov-21	13:26:32	Pre modification peak	Sample:5_211102A21, Compound:HpCB-F5, RT:26.021	
08-Nov-21	13:26:32	Peak modified	Sample:5_211102A21, Compound:HpCB-F5, RT:26.021	NA211108MA
08-Nov-21	13:26:32	Peak added	Sample:5_211102A21, Compound:HpCB-F5, RT:25.973	NA211108MA
08-Nov-21	13:26:44	Pre modification peak	Sample:5_211102A23, Compound:HpCB-F5, RT:25.937	
08-Nov-21	13:26:44	Peak modified	Sample:5_211102A23, Compound:HpCB-F5, RT:25.937	NA211108MS
08-Nov-21	13:26:44	Pre modification peak	Sample:5_211102A23, Compound:HpCB-F5, RT:26.009	
08-Nov-21	13:26:44	Peak modified	Sample:5_211102A23, Compound:HpCB-F5, RT:26.009	NA211108MS
08-Nov-21	13:26:54	Pre modification peak	Sample:5_211102A23, Compound:HpCB-F5, RT:26.021	
08-Nov-21	13:26:54	Peak modified	Sample:5_211102A23, Compound:HpCB-F5, RT:26.021	NA211108MB
08-Nov-21	13:27:09	Pre modification peak	Sample:5_211102A24, Compound:HpCB-F5, RT:26.021	
08-Nov-21	13:27:09	Peak modified	Sample:5_211102A24, Compound:HpCB-F5, RT:26.021	NA211108MS
08-Nov-21	13:27:09	Peak added	Sample:5_211102A24, Compound:HpCB-F5, RT:25.948	NA211108MS
08-Nov-21	13:27:20	Pre modification peak	Sample:5_211102A24, Compound:HpCB-F5, RT:25.864	
08-Nov-21	13:27:20	Peak modified	Sample:5_211102A24, Compound:HpCB-F5, RT:25.864	NA211108MB
08-Nov-21	13:27:29	Pre modification peak	Sample:5_211102A24, Compound:HpCB-F5, RT:25.948	
08-Nov-21	13:27:29	Peak modified	Sample:5_211102A24, Compound:HpCB-F5, RT:25.948	NA211108MB
08-Nov-21	13:27:43	Peak added	Sample:5_211102A21, Compound:HpCB-F5, RT:26.396	NA211108MA
08-Nov-21	13:29:06	Pre modification peak	Sample:5_211102A23, Compound:HpCB-F5, RT:26.456	

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08-Nov-21	13:29:06	Peak modified	Sample:5_211102A23, Compound:HpCB-F5, RT:26.456	NA211108MB
08-Nov-21	13:29:20	Pre modification peak	Sample:5_211102A24, Compound:HpCB-F5, RT:26.577	
08-Nov-21	13:29:20	Peak modified	Sample:5_211102A24, Compound:HpCB-F5, RT:26.577	NA211108MB
08-Nov-21	13:29:20	Pre modification peak	Sample:5_211102A24, Compound:HpCB-F5, RT:26.577	
08-Nov-21	13:29:20	Peak modified	Sample:5_211102A24, Compound:HpCB-F5, RT:26.577	NA211108MB
08-Nov-21	13:31:08	Pre modification peak	Sample:5_211102A21, Compound:HpCB-F5, RT:28.667	
08-Nov-21	13:31:08	Peak modified	Sample:5_211102A21, Compound:HpCB-F5, RT:28.667	NA211108MB
08-Nov-21	13:31:41	Pre modification peak	Sample:5_211102A23, Compound:HpCB-F5, RT:27.362	
08-Nov-21	13:31:41	Peak modified	Sample:5_211102A23, Compound:HpCB-F5, RT:27.362	NA211108MB
08-Nov-21	13:31:58	Pre modification peak	Sample:5_211102A24, Compound:HpCB-F5, RT:28.667	
08-Nov-21	13:31:58	Peak modified	Sample:5_211102A24, Compound:HpCB-F5, RT:28.667	NA211108MB
08-Nov-21	13:31:58	Pre modification peak	Sample:5_211102A24, Compound:HpCB-F5, RT:28.667	
08-Nov-21	13:31:58	Peak modified	Sample:5_211102A24, Compound:HpCB-F5, RT:28.667	NA211108MB
08-Nov-21	13:32:48	Pre modification peak	Sample:5_211102A23, Compound:HpCB-F6, RT:29.964	
08-Nov-21	13:32:48	Peak modified	Sample:5_211102A23, Compound:HpCB-F6, RT:29.964	NA211108MB
08-Nov-21	13:33:05	Pre modification peak	Sample:5_211102A24, Compound:HpCB-F6, RT:29.992	
08-Nov-21	13:33:05	Peak modified	Sample:5_211102A24, Compound:HpCB-F6, RT:29.992	NA211108MB
08-Nov-21	13:33:05	Pre modification peak	Sample:5_211102A24, Compound:HpCB-F6, RT:29.978	
08-Nov-21	13:33:05	Peak modified	Sample:5_211102A24, Compound:HpCB-F6, RT:29.978	NA211108MB
08-Nov-21	13:33:05	Pre modification peak	Sample:5_211102A24, Compound:HpCB-F6, RT:29.392	
08-Nov-21	13:33:05	Peak modified	Sample:5_211102A24, Compound:HpCB-F6, RT:29.392	NA211108MB
08-Nov-21	13:33:32	Pre modification peak	Sample:5_211102A23, Compound:OcCB-F5, RT:27.145	
08-Nov-21	13:33:32	Peak modified	Sample:5_211102A23, Compound:OcCB-F5, RT:27.145	NA211108MB
08-Nov-21	13:33:32	Pre modification peak	Sample:5_211102A23, Compound:OcCB-F5, RT:27.230	
08-Nov-21	13:33:32	Peak modified	Sample:5_211102A23, Compound:OcCB-F5, RT:27.230	NA211108MB
08-Nov-21	13:33:46	Pre modification peak	Sample:5_211102A23, Compound:OcCB-F5, RT:27.097	
08-Nov-21	13:33:46	Peak modified	Sample:5_211102A23, Compound:OcCB-F5, RT:27.097	NA211108MB
08-Nov-21	13:33:56	Peak added	Sample:5_211102A24, Compound:OcCB-F5, RT:27.084	NA211108MA
08-Nov-21	13:34:12	Peak modified	Sample:5_211102A24, Compound:OcCB-F5, RT:27.084	NA211108MB
08-Nov-21	13:34:12	Pre modification peak	Sample:5_211102A24, Compound:OcCB-F5, RT:27.072	
08-Nov-21	13:34:12	Peak modified	Sample:5_211102A24, Compound:OcCB-F5, RT:27.072	NA211108MB
08-Nov-21	13:34:47	Pre modification peak	Sample:5_211102A21, Compound:OcCB-F5, RT:29.042	
08-Nov-21	13:34:47	Peak modified	Sample:5_211102A21, Compound:OcCB-F5, RT:29.042	NA211108MB
08-Nov-21	13:34:47	Pre modification peak	Sample:5_211102A21, Compound:OcCB-F5, RT:29.030	
08-Nov-21	13:34:47	Peak modified	Sample:5_211102A21, Compound:OcCB-F5, RT:29.030	NA211108MB
08-Nov-21	13:34:47	Pre modification peak	Sample:5_211102A21, Compound:OcCB-F5, RT:29.151	
08-Nov-21	13:34:47	Peak modified	Sample:5_211102A21, Compound:OcCB-F5, RT:29.151	NA211108MB
08-Nov-21	13:35:04	Pre modification peak	Sample:5_211102A24, Compound:OcCB-F5, RT:29.042	
08-Nov-21	13:35:04	Peak modified	Sample:5_211102A24, Compound:OcCB-F5, RT:29.042	NA211108MB
08-Nov-21	13:35:04	Pre modification peak	Sample:5_211102A24, Compound:OcCB-F5, RT:29.139	
08-Nov-21	13:35:04	Peak modified	Sample:5_211102A24, Compound:OcCB-F5, RT:29.139	NA211108MB
08-Nov-21	13:35:16	Peak modified	Sample:5_211102A24, Compound:OcCB-F5, RT:29.042	NA211108MB
08-Nov-21	13:35:16	Peak modified	Sample:5_211102A24, Compound:OcCB-F5, RT:29.139	NA211108MB
08-Nov-21	13:35:43	Peak added	Sample:5_211102A22, Compound:OcCB-F6, RT:31.080	NA211108MB
08-Nov-21	13:36:03	Pre modification peak	Sample:5_211102A23, Compound:OcCB-F6, RT:29.392	
08-Nov-21	13:36:03	Peak modified	Sample:5_211102A23, Compound:OcCB-F6, RT:29.392	
08-Nov-21	13:36:16	Pre modification peak	Sample:5_211102A24, Compound:OcCB-F6, RT:31.373	
08-Nov-21	13:36:16	Peak modified	Sample:5_211102A24, Compound:OcCB-F6, RT:31.373	NA211108MB
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Quantify Audit Report MassLynx V4.2 SCN1012

Dataset: I:\Organics Instrument\HIGHRES GCMS Completed Results Files\HR-5\5-211102A2-1108NA.qld

Last Altered: Monday, November 08, 2021 13:43:10 Eastern Standard Time
Printed: Monday, November 08, 2021 15:57:46 Eastern Standard Time

Date	Time	Event	Details	Comments
08-Nov-21	13:36:59	Pre modification peak	Sample:5_211102A24, Compound:NoCB-F6, RT:30.173	
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08-Nov-21	13:37:14	Peak added	Sample:5_211102A21, Compound:DeCB-F7, RT:33.559	NA211108MA
08-Nov-21	13:43:01	Pre modification peak	Sample:5_211102A22, Compound:DeCB-F7, RT:33.560	
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08-Nov-21	13:43:01	Pre modification peak	Sample:5_211102A22, Compound:DeCB-F7, RT:33.560	
08-Nov-21	13:43:01	Peak modified	Sample:5_211102A22, Compound:DeCB-F7, RT:33.560	NA211108MA
08-Nov-21	13:43:01	Pre modification peak	Sample:5_211102A22, Compound:DeCB-F7, RT:33.195	
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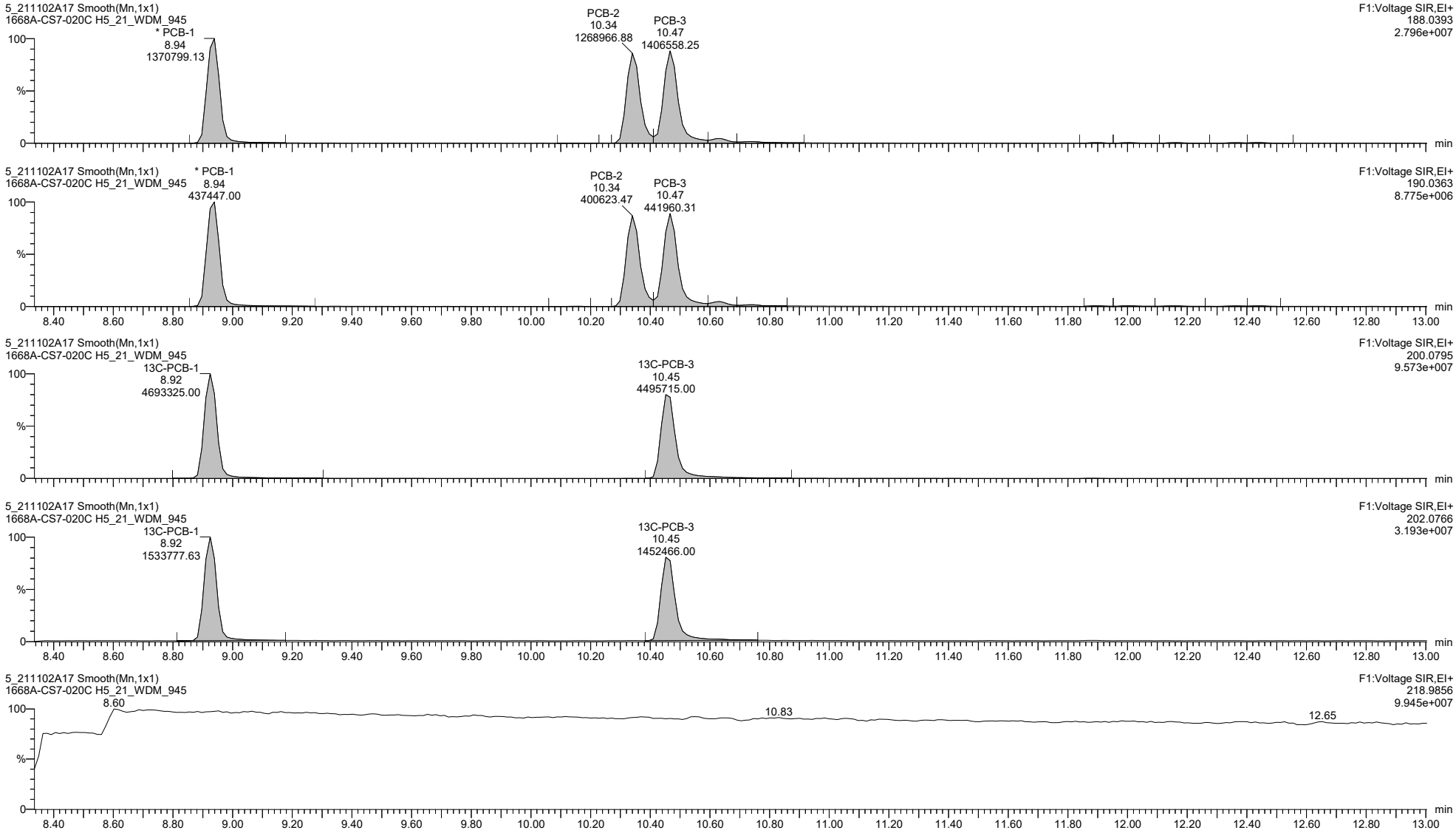
Quantify Sample Template Report **MassLynx V4.2 SCN1012**

Dataset: I:\Organics Instrument\HIGHRES GCMS Completed Results Files\HR-5\5-211102A2-1108NA.qld

Last Altered: Monday, November 08, 2021 13:43:10 Eastern Standard Time
Printed: Monday, November 08, 2021 15:57:46 Eastern Standard Time

Method: C:\MassLynx\PCB.PRO\MethDB\1668_OCTYL_209-1025.mdb 25 Oct 2021 11:29:00
Calibration: 08 Nov 2021 13:20:26

Name: 5_211102A17, Date: 02-Nov-2021, Time: 21:19:40, ID: H5_21_WDM_945, Description: 1668A-CS7-020C, Vial: Tray1:2



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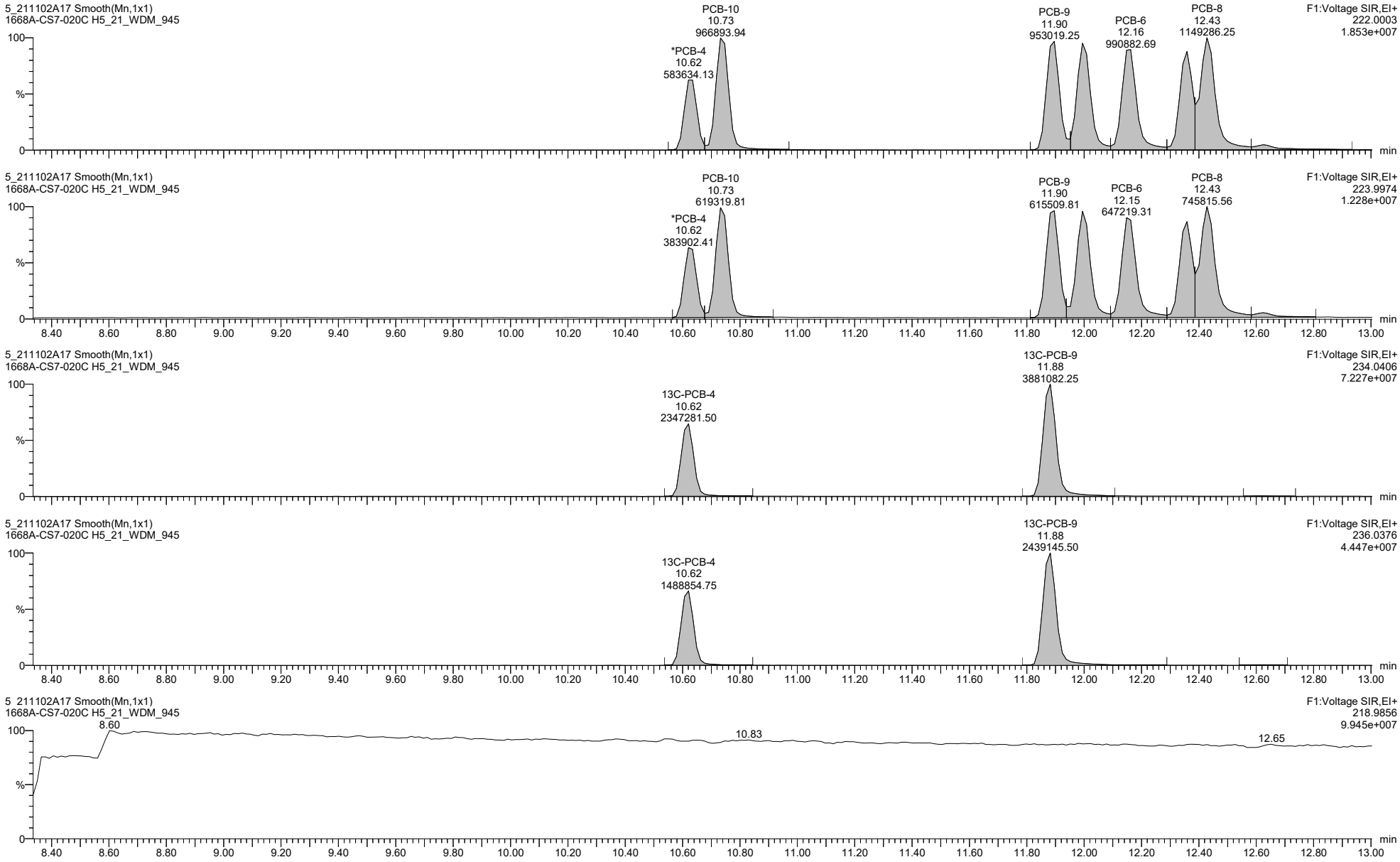

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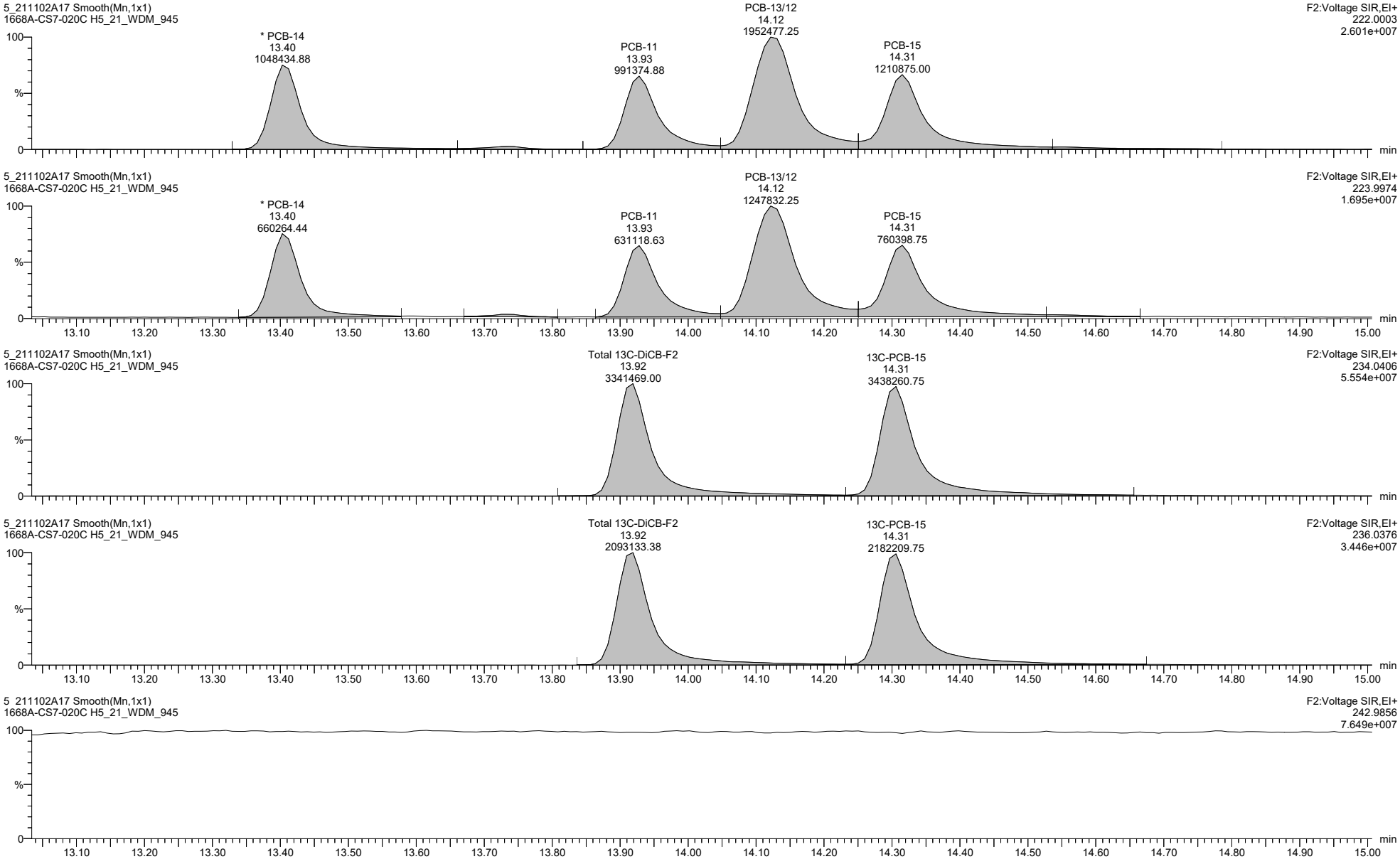

Quantify Sample Template Report **MassLynx V4.2 SCN1012**

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Printed: Monday, November 08, 2021 15:57:46 Eastern Standard Time

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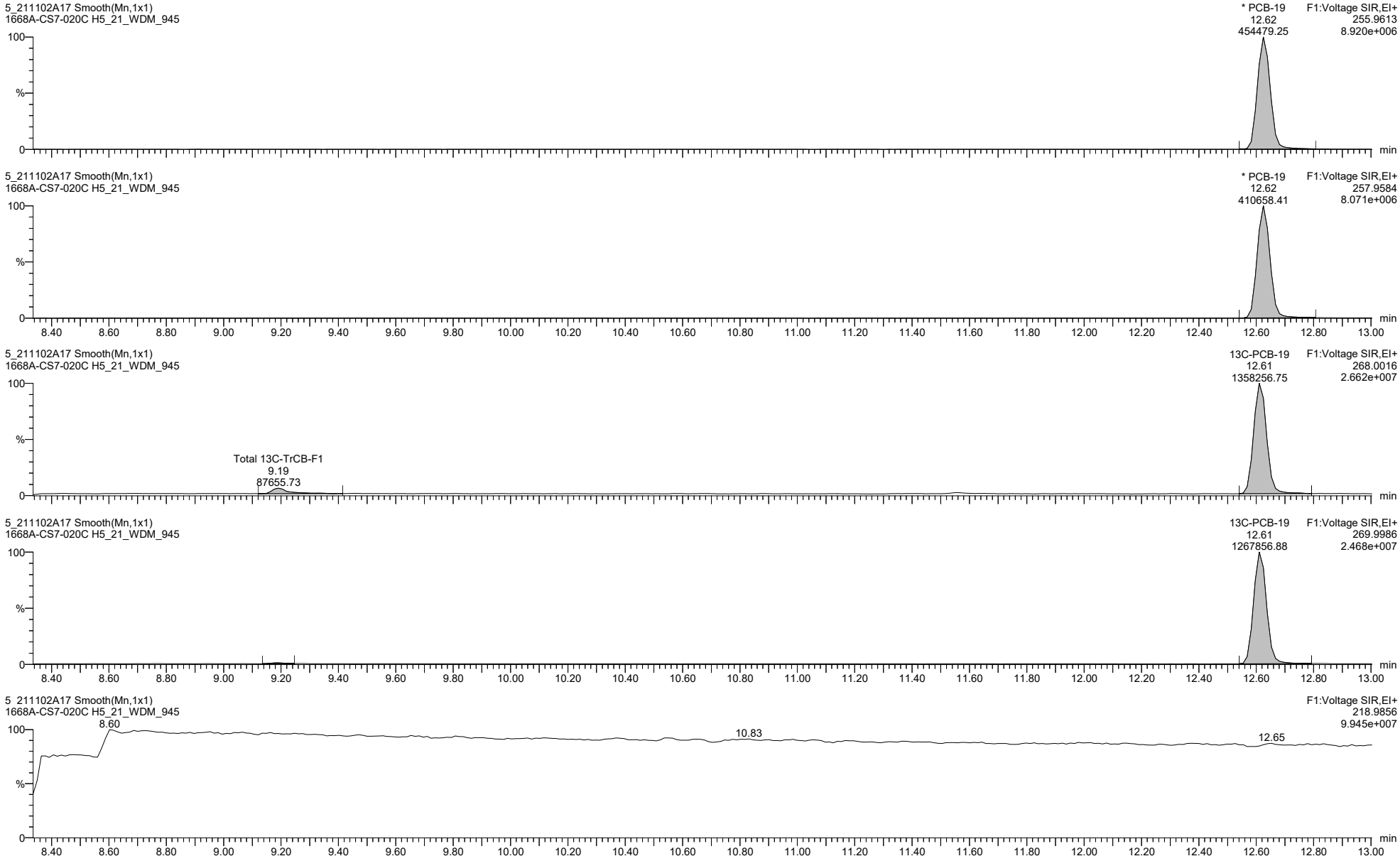

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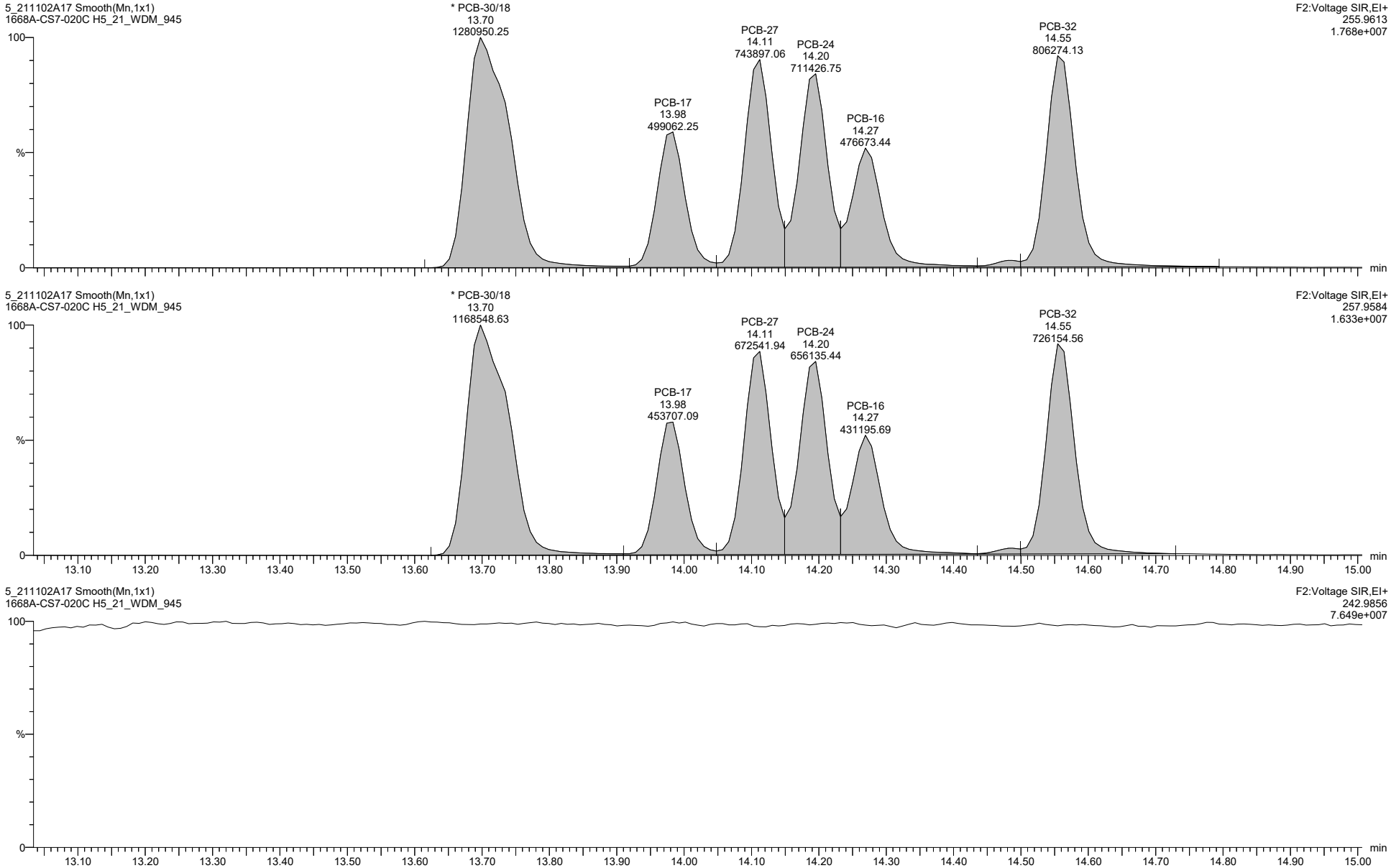

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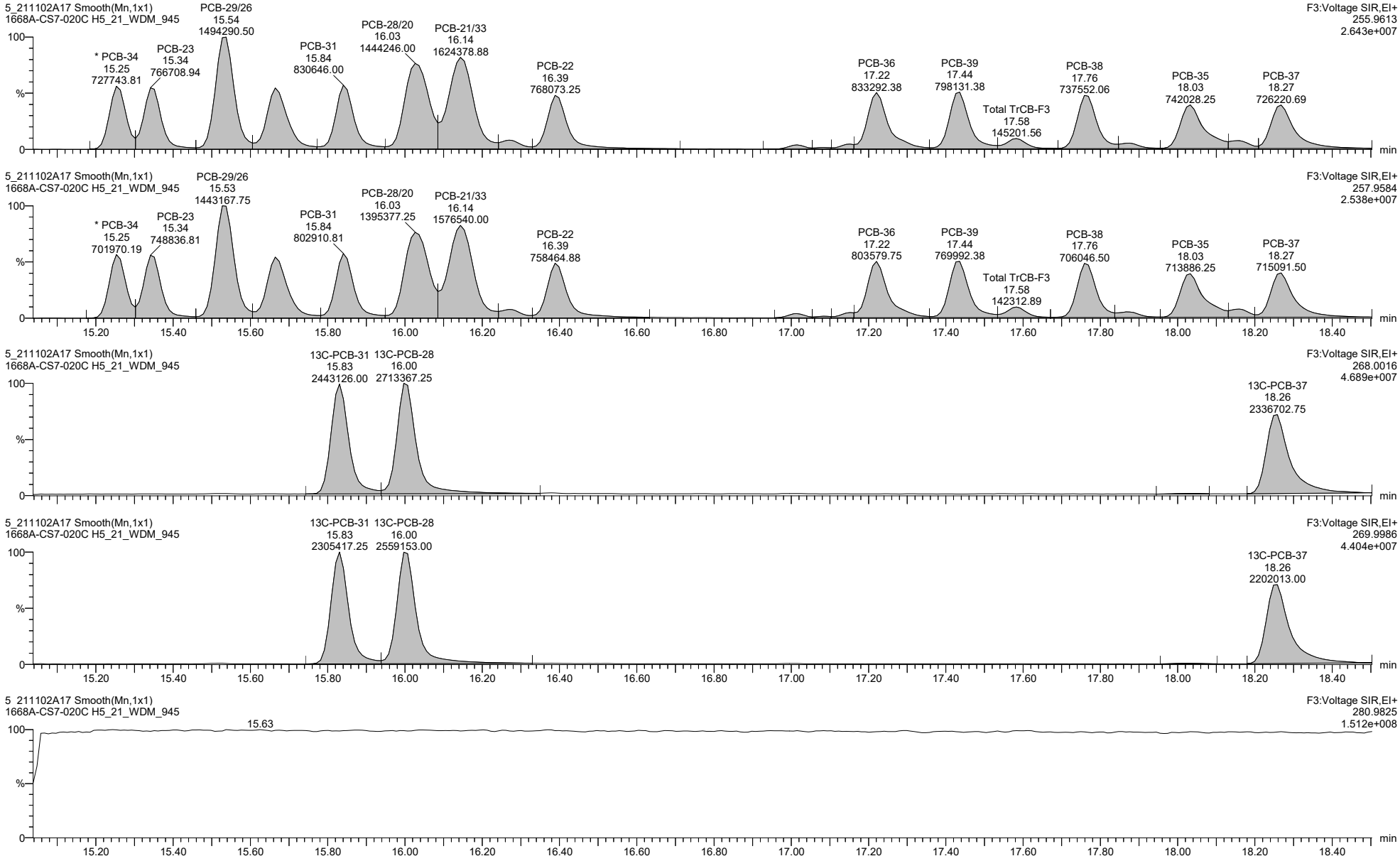

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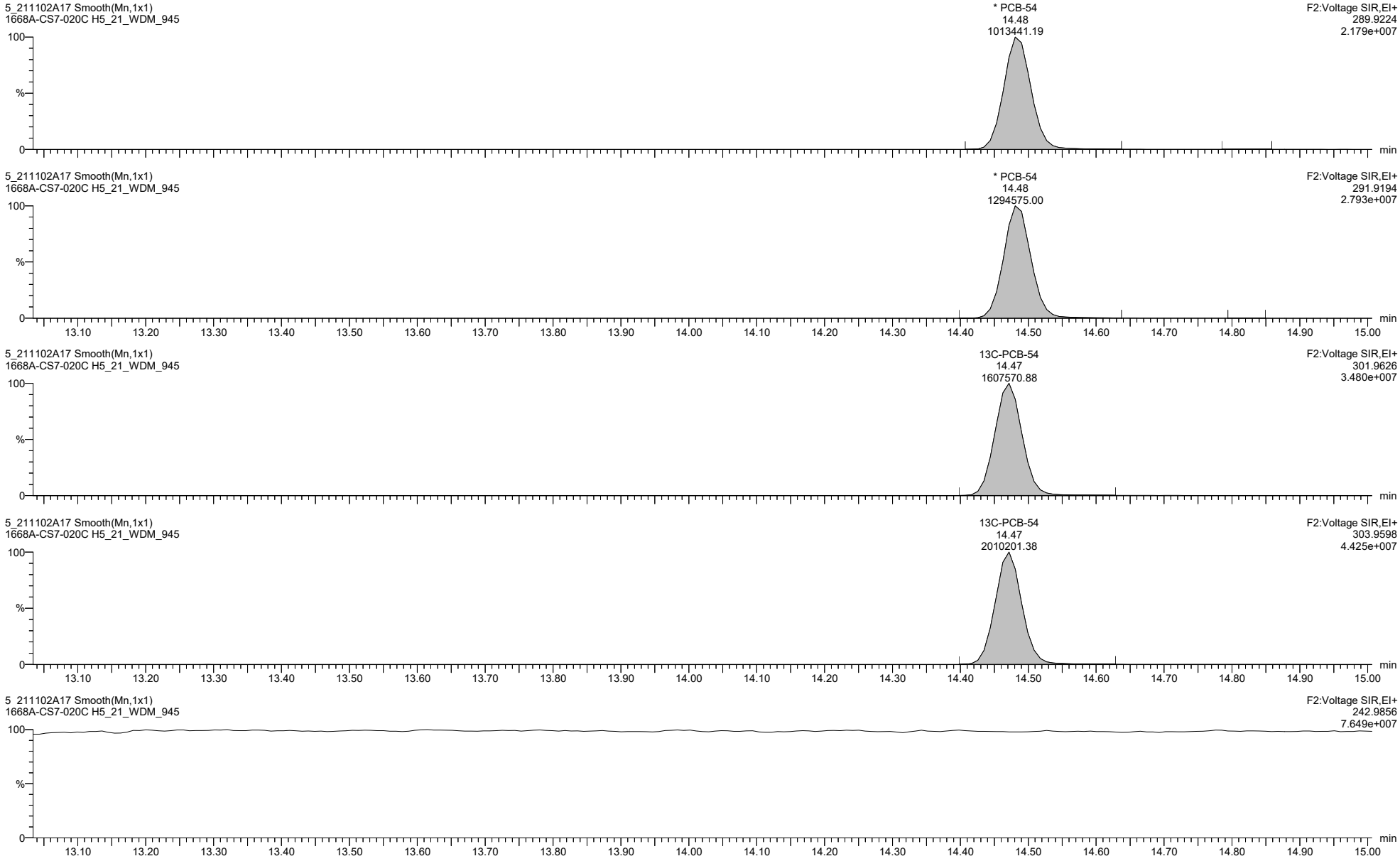

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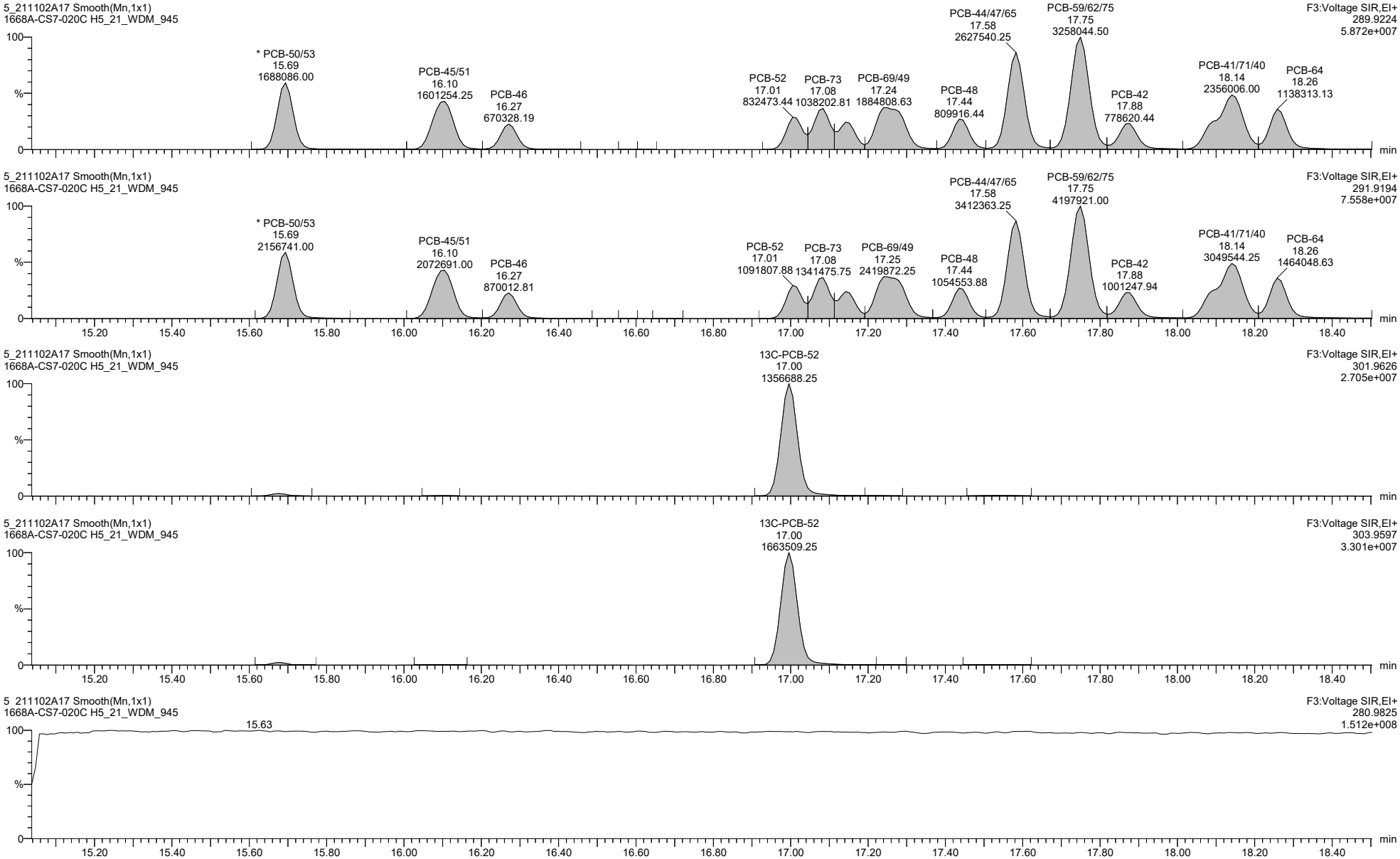

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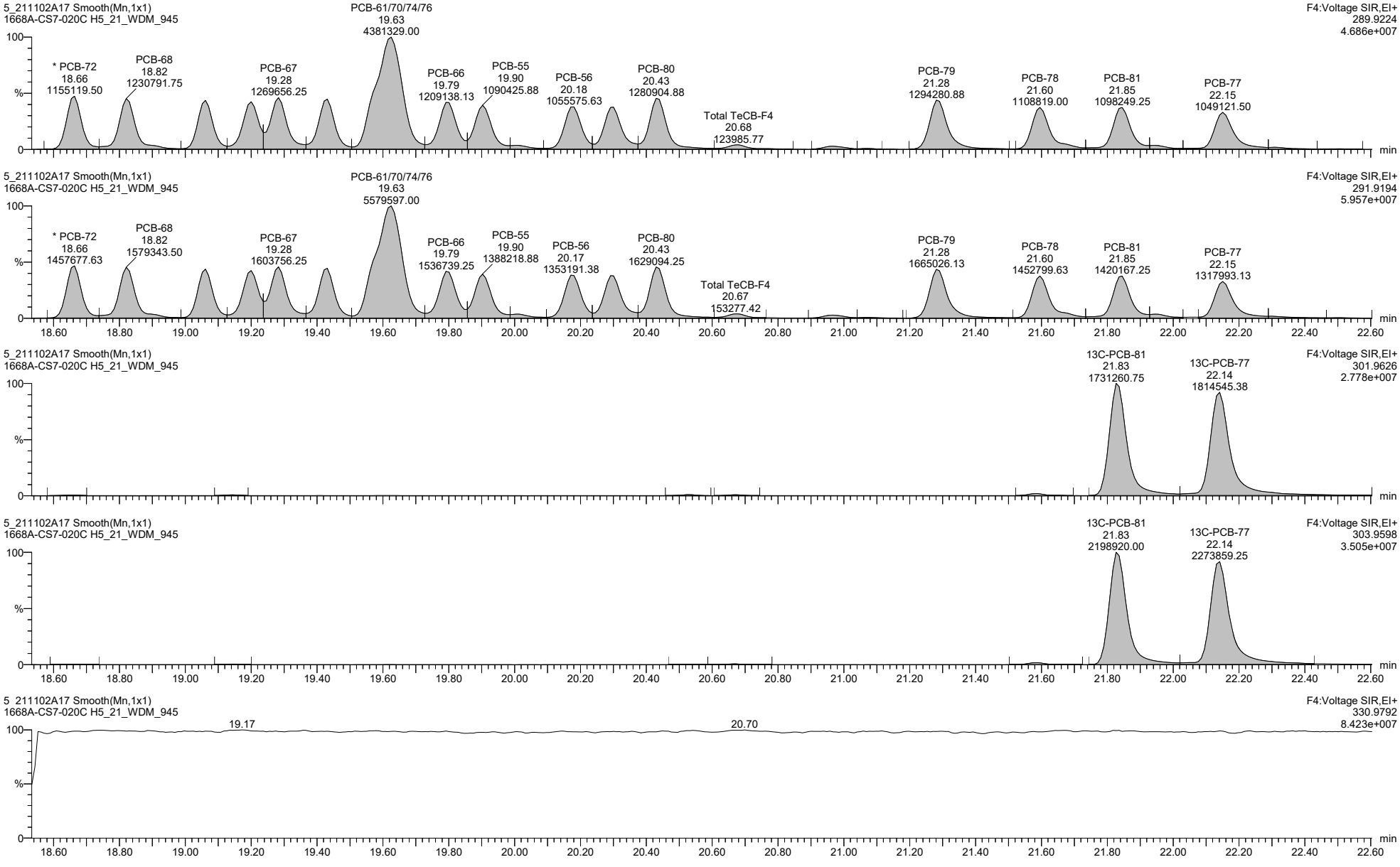

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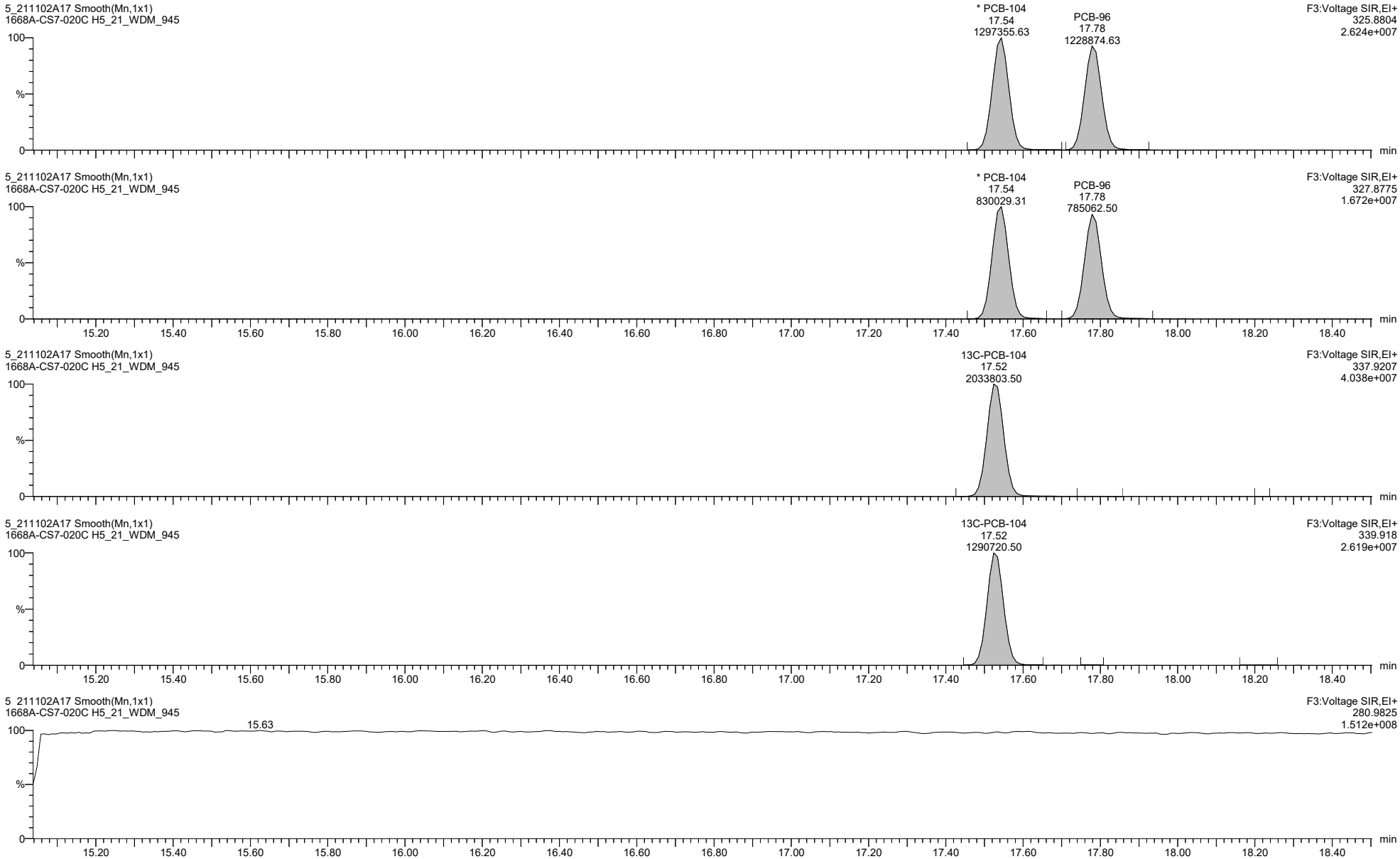

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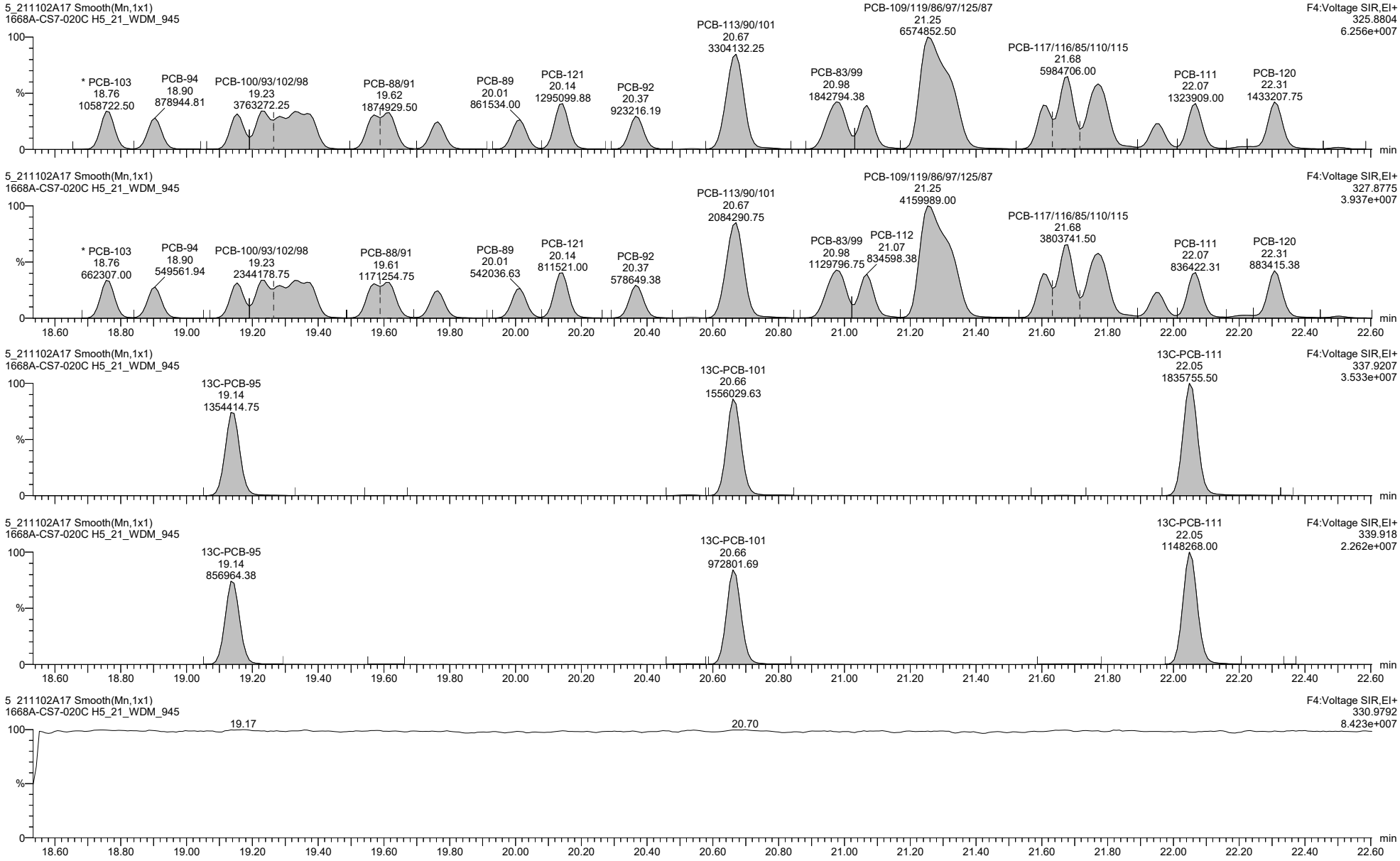

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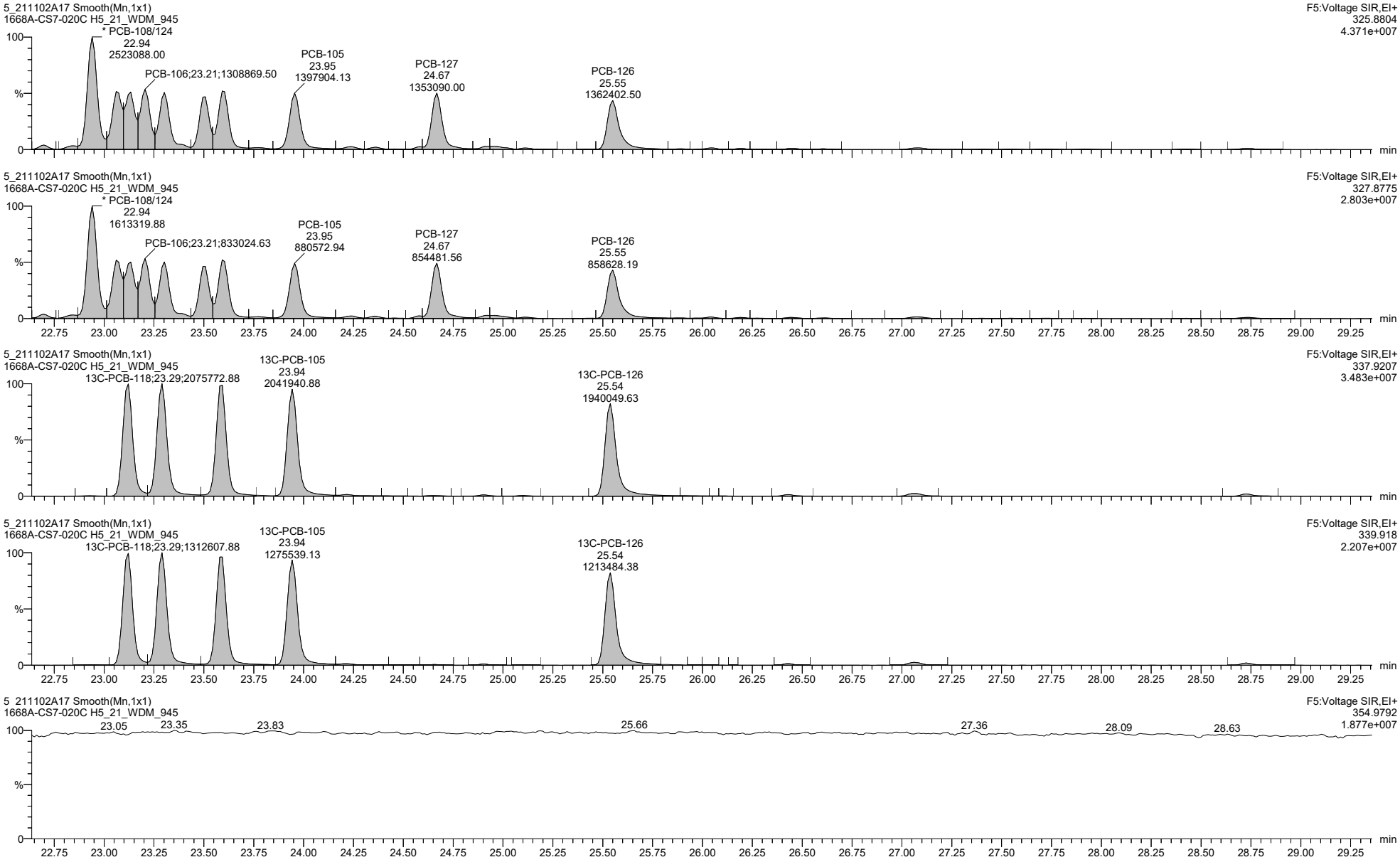

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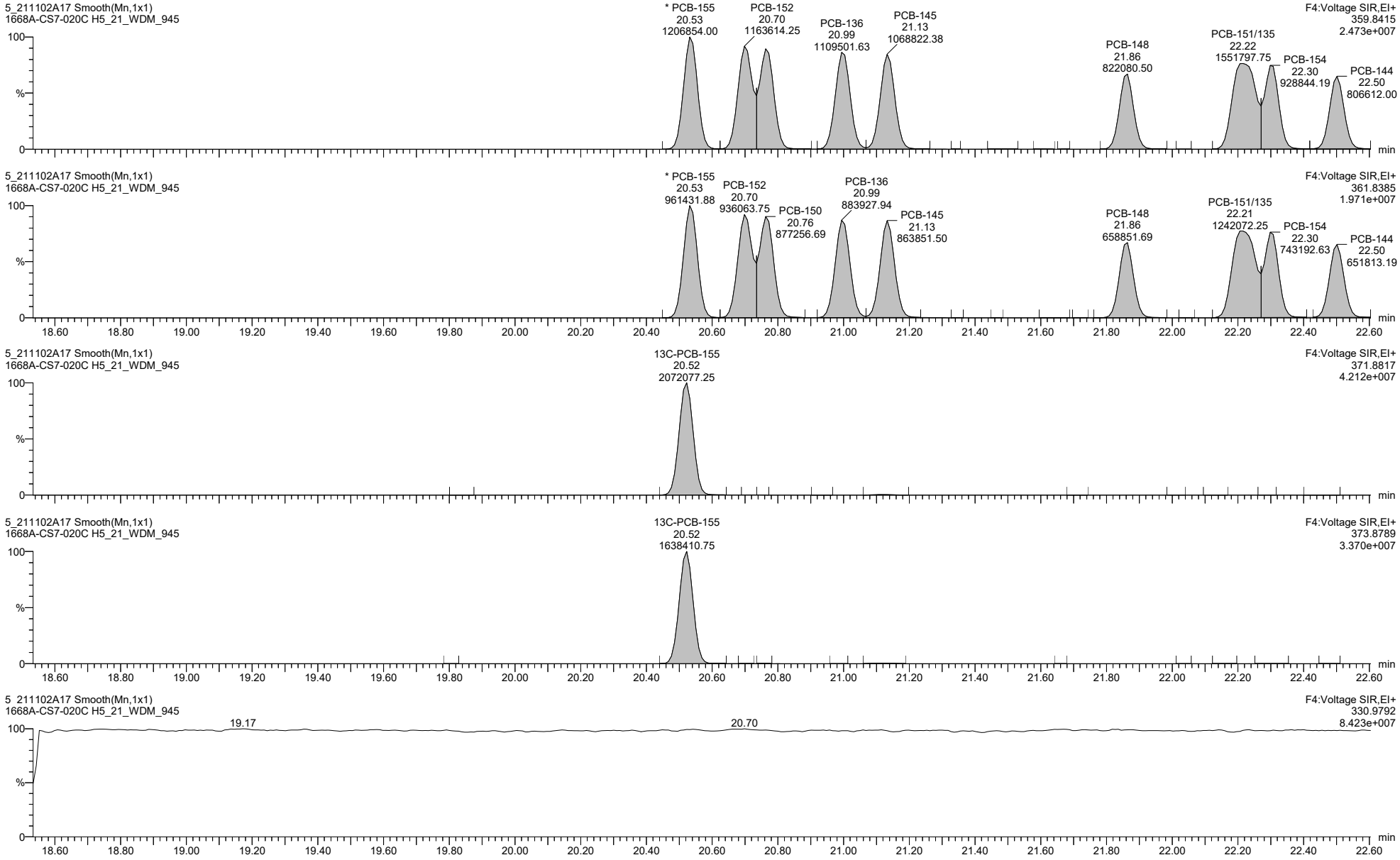

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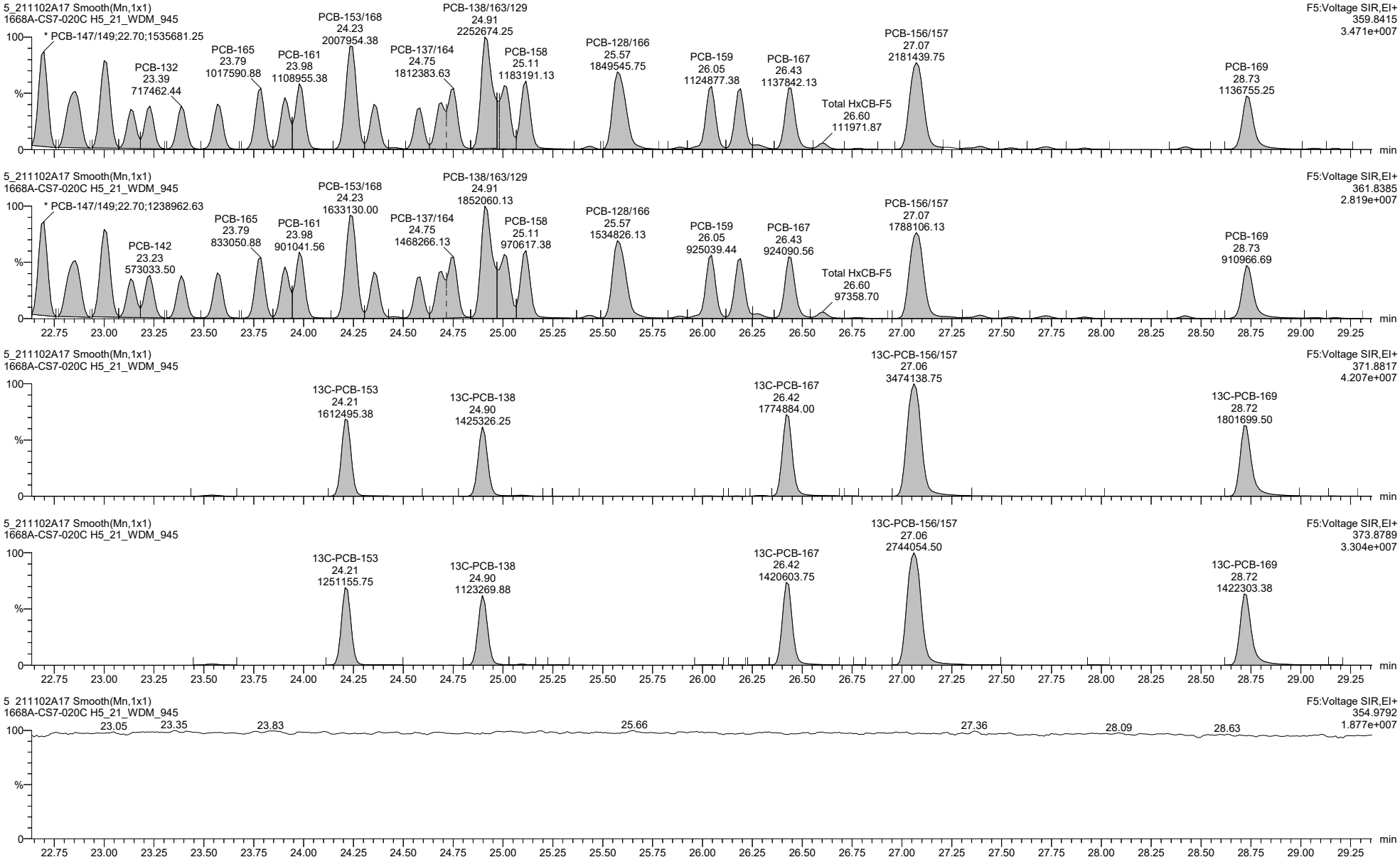

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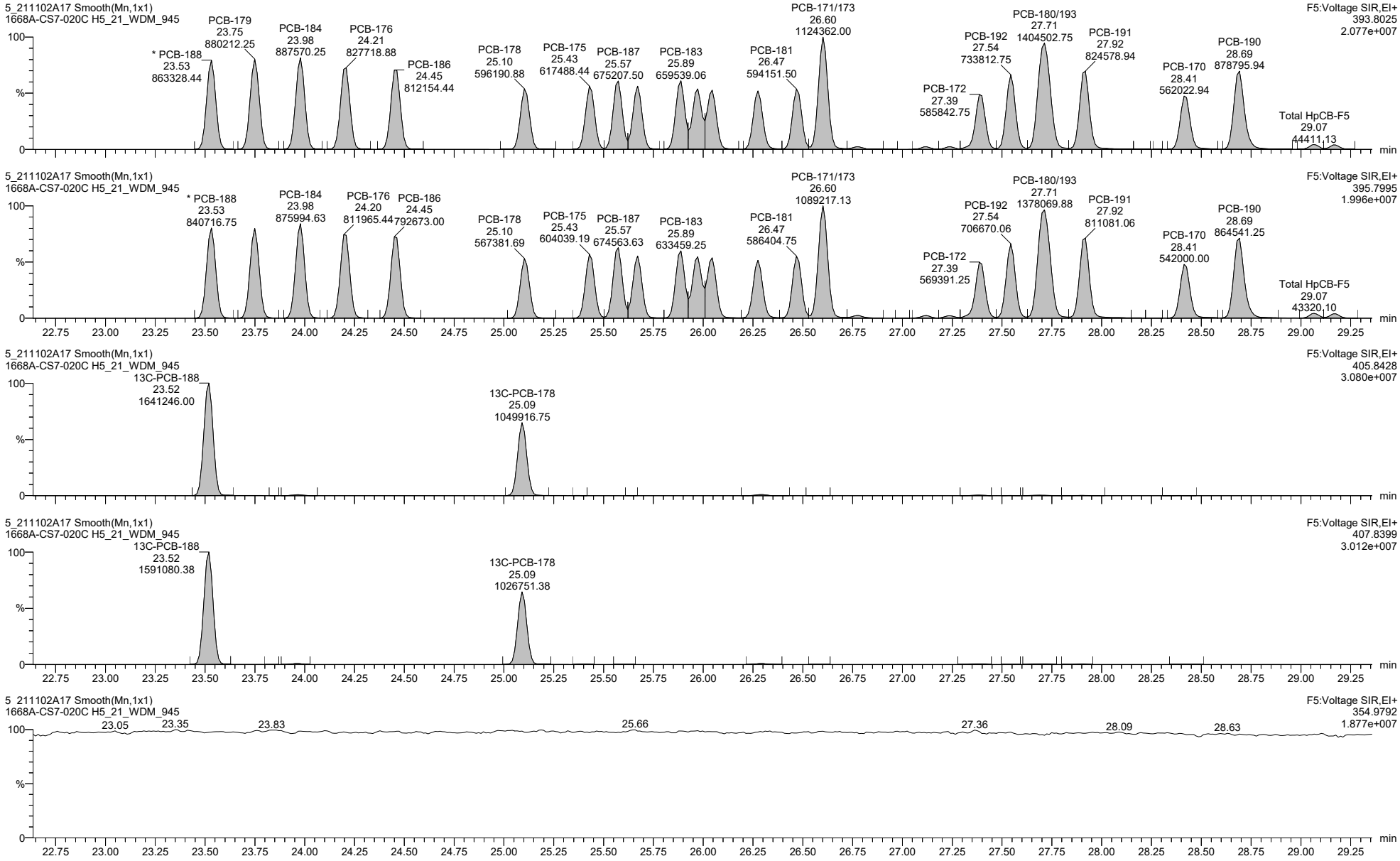

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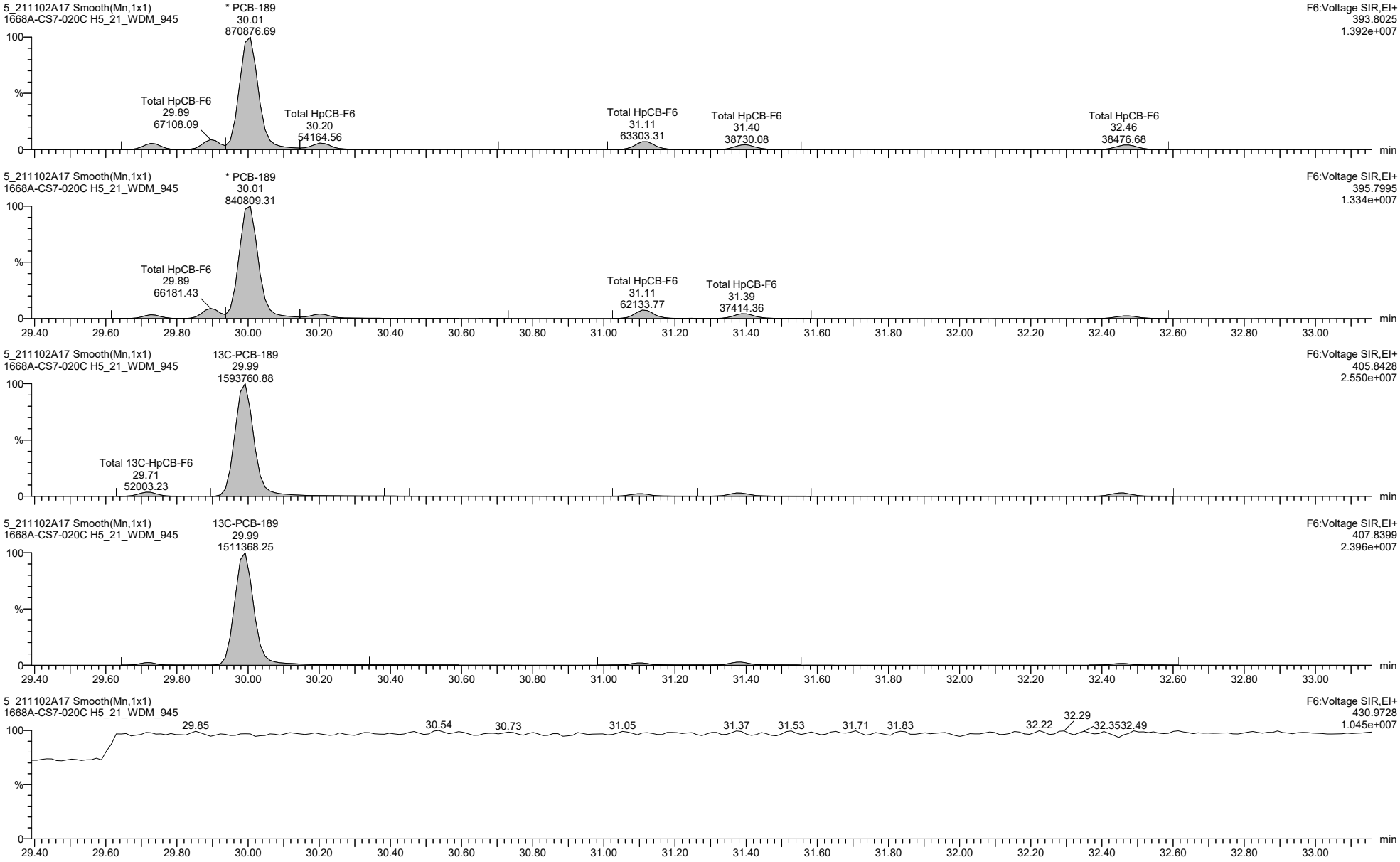

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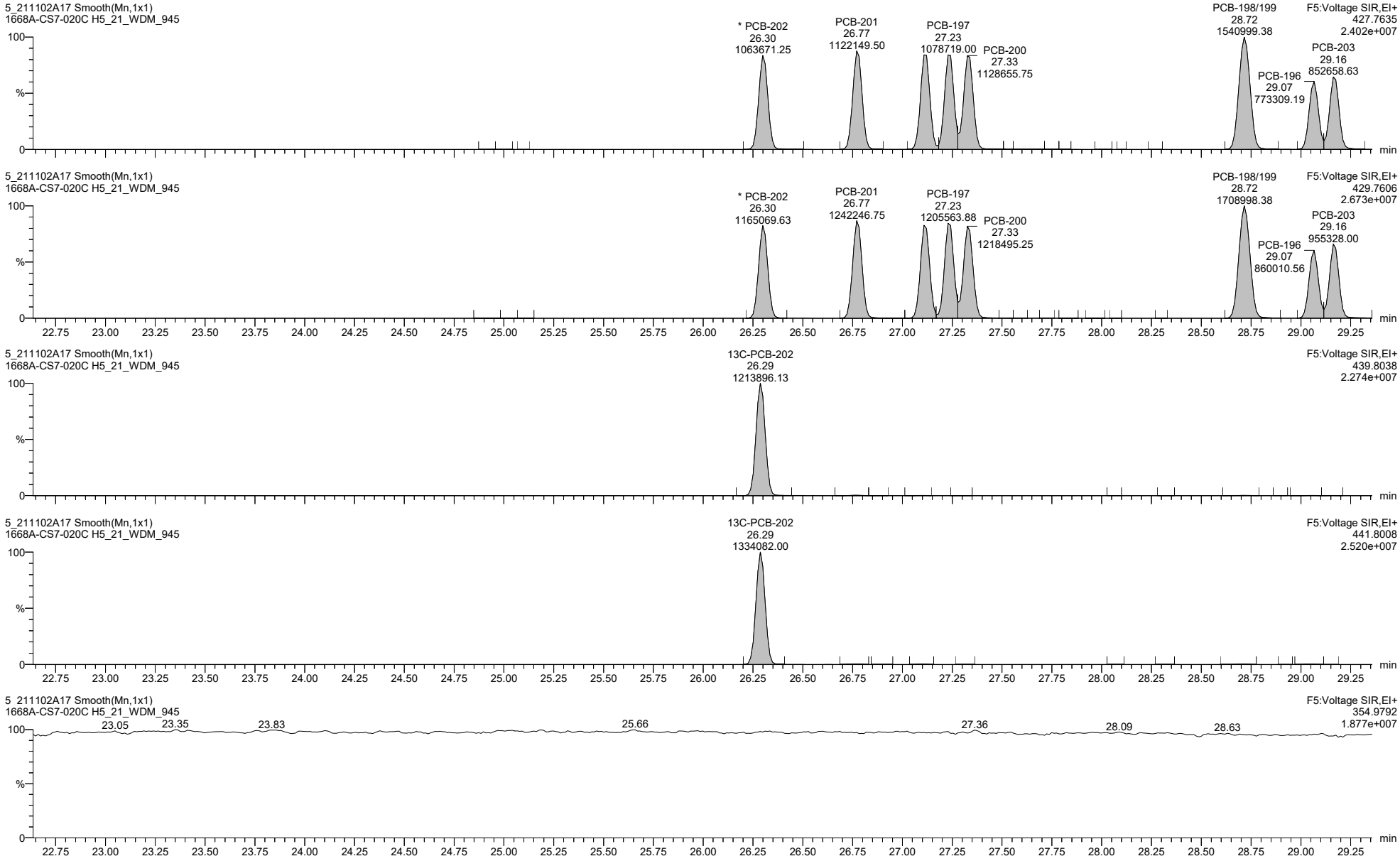

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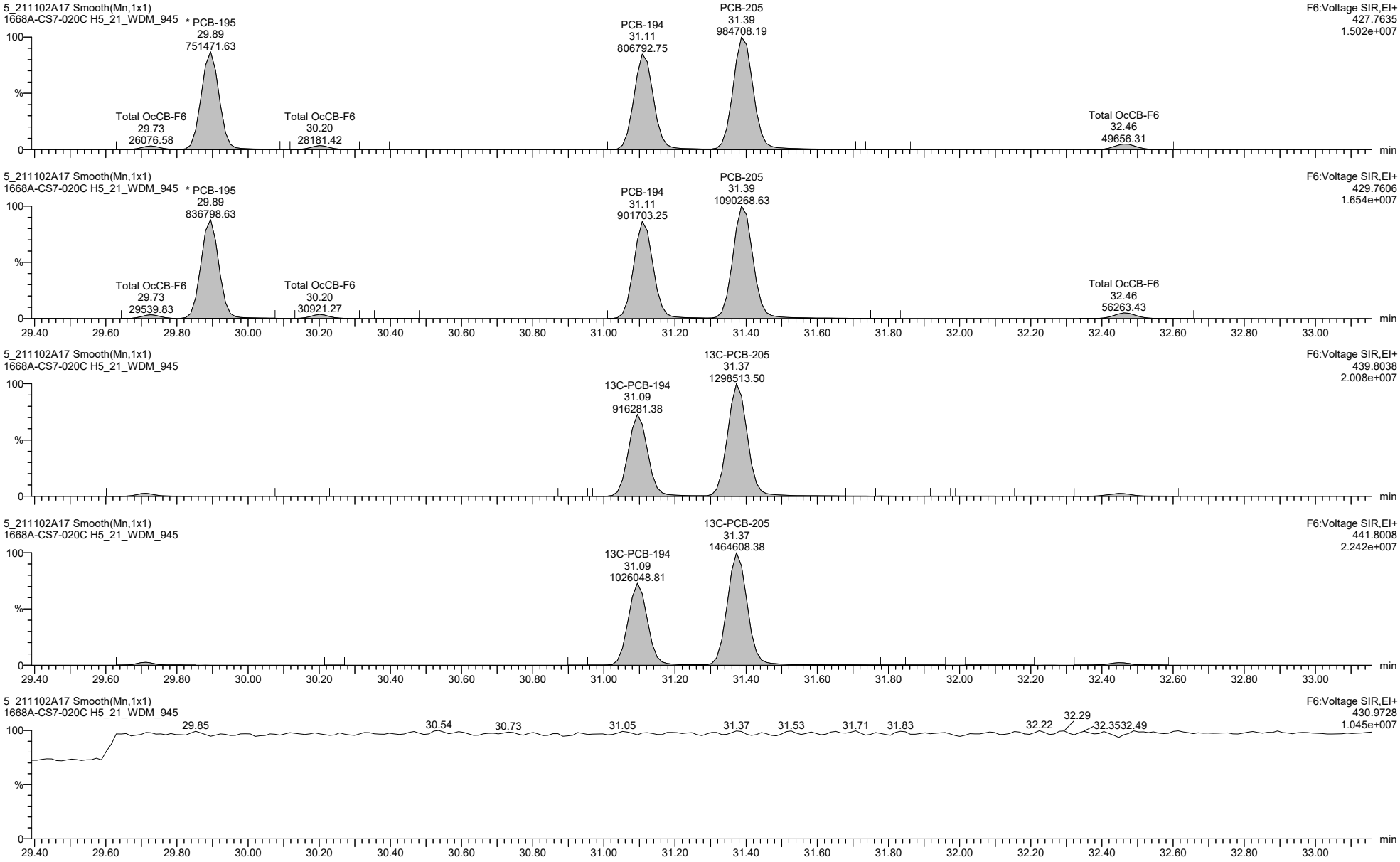

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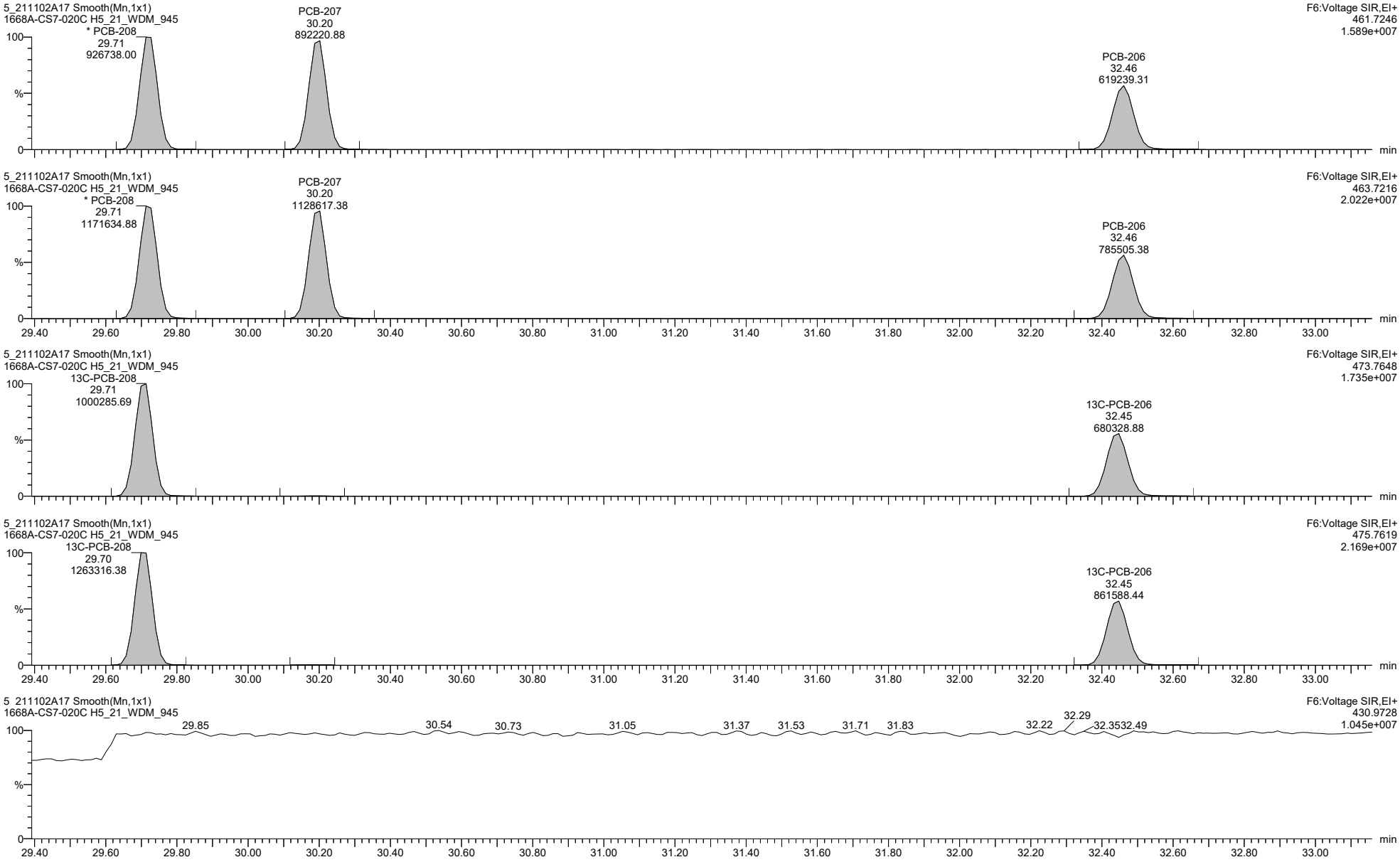

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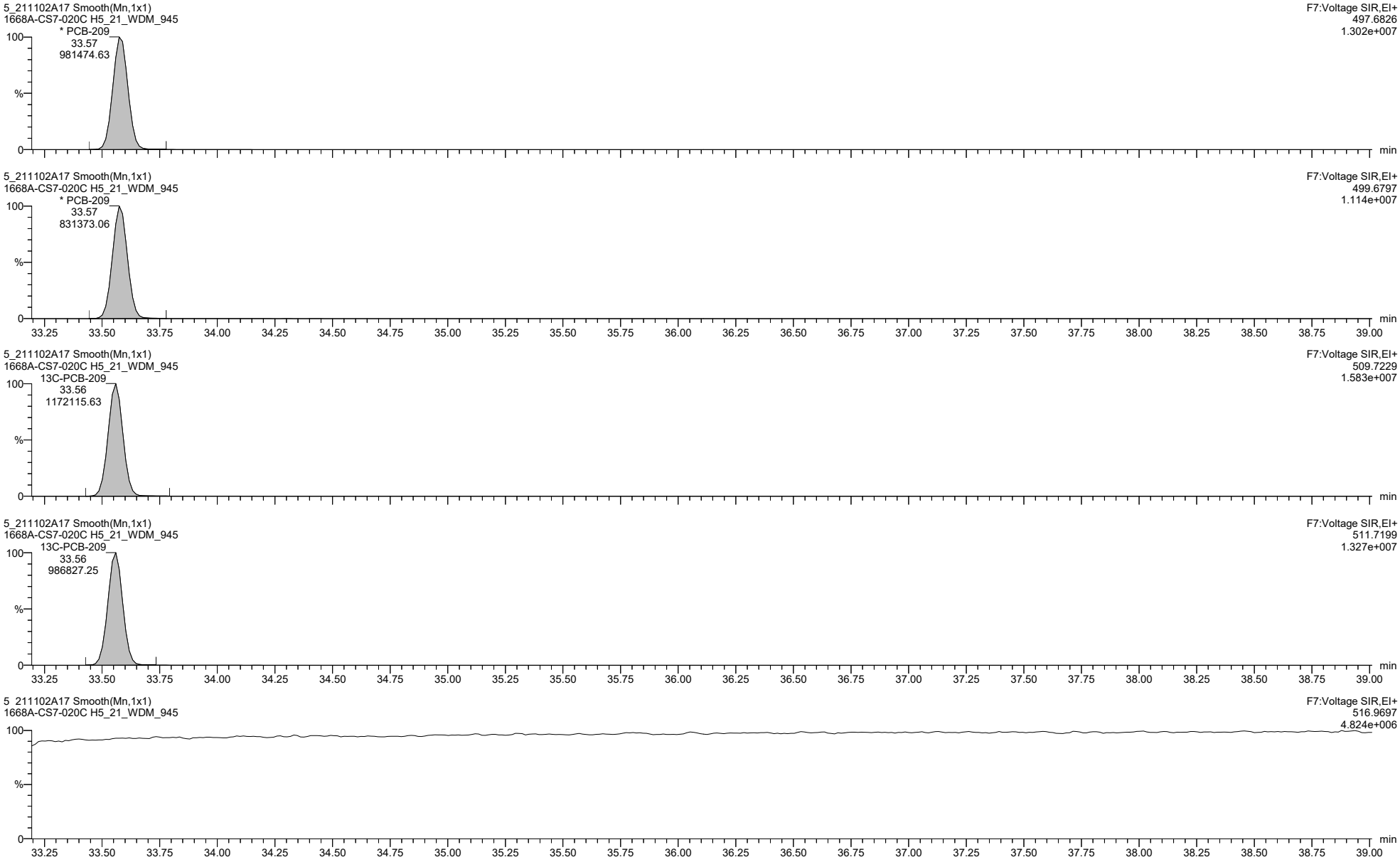

Quantify Sample Template Report **MassLynx V4.2 SCN1012**

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Last Altered: Monday, November 08, 2021 13:43:10 Eastern Standard Time
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Calibration: 08 Nov 2021 13:20:26

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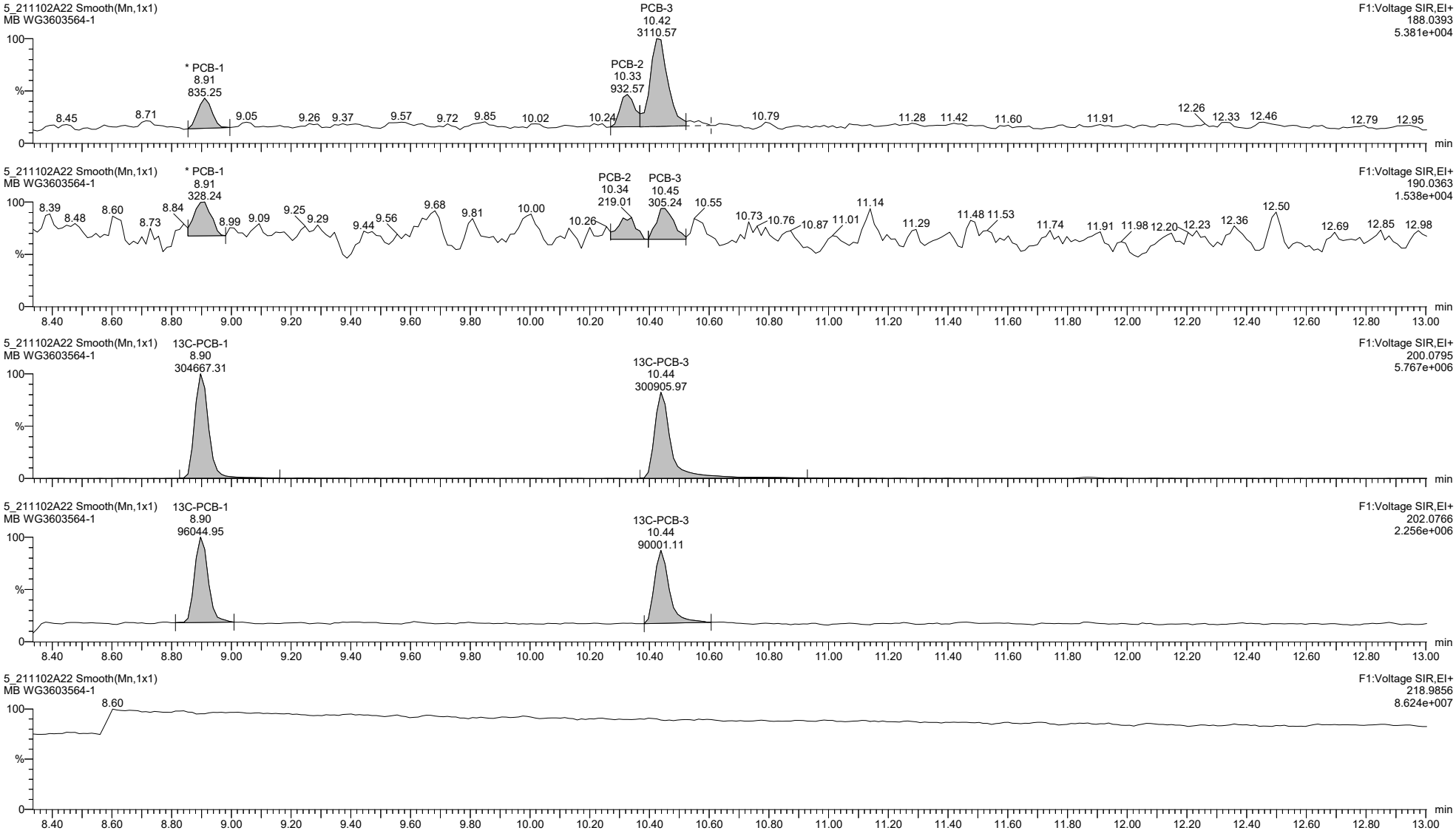

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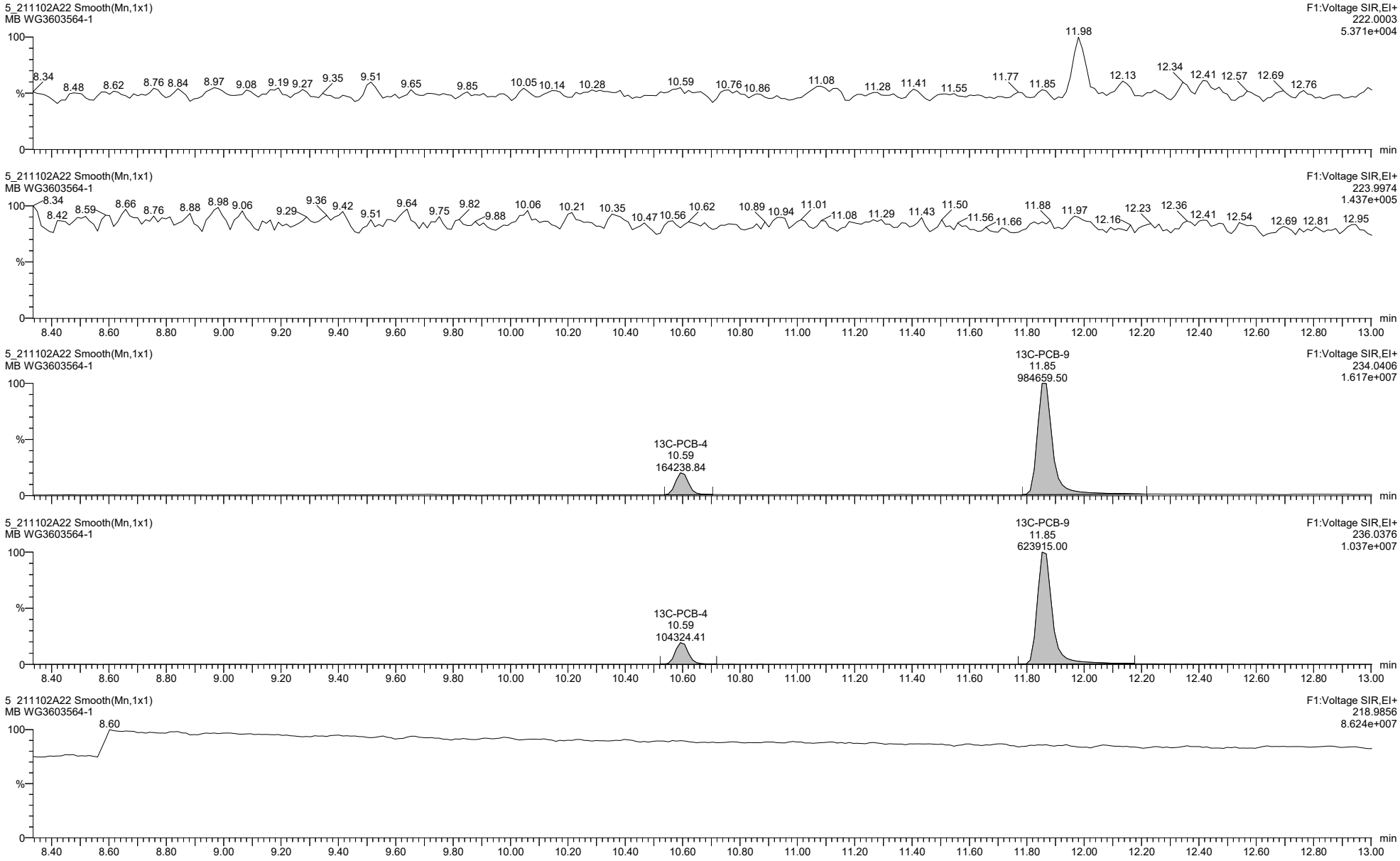

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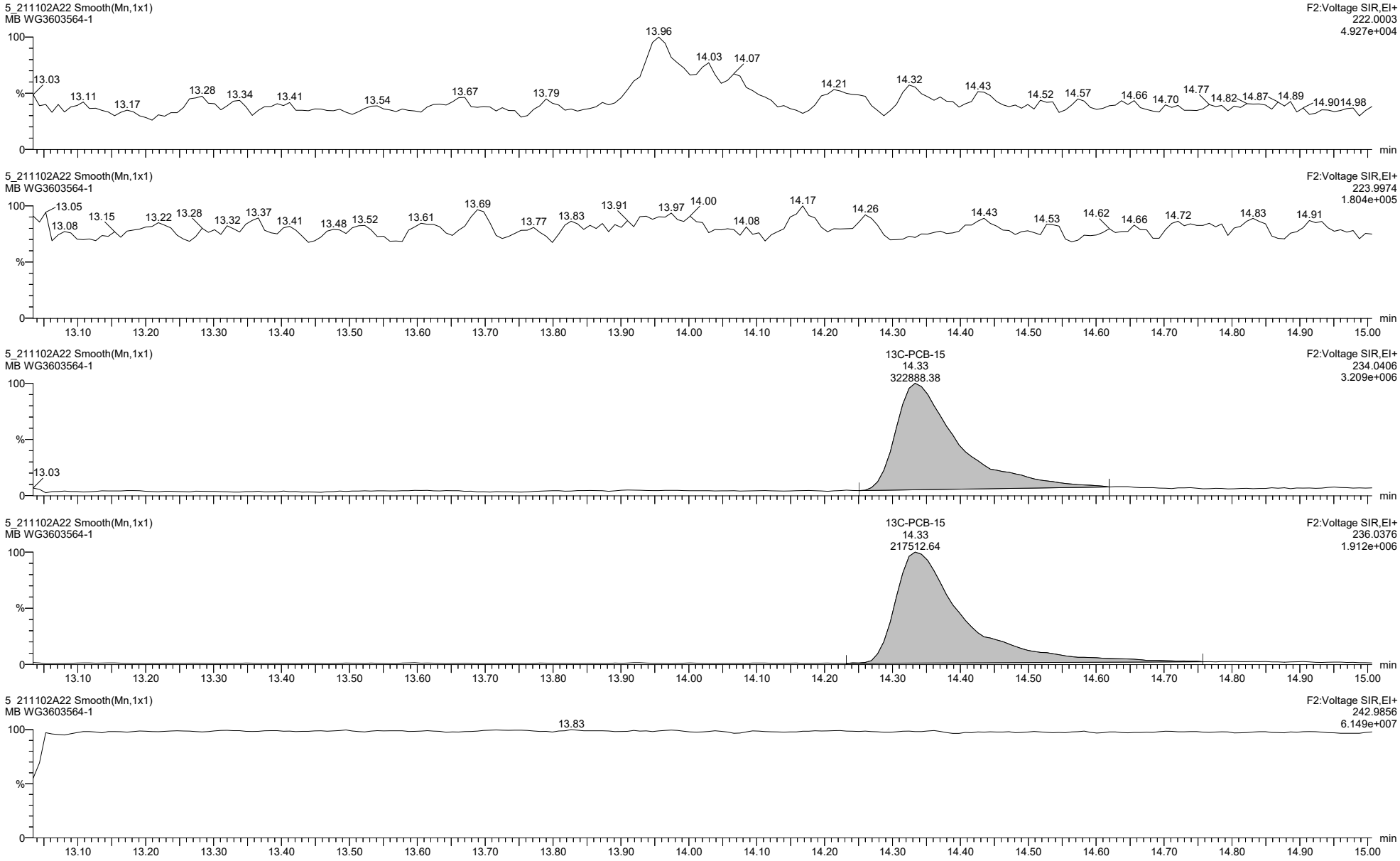

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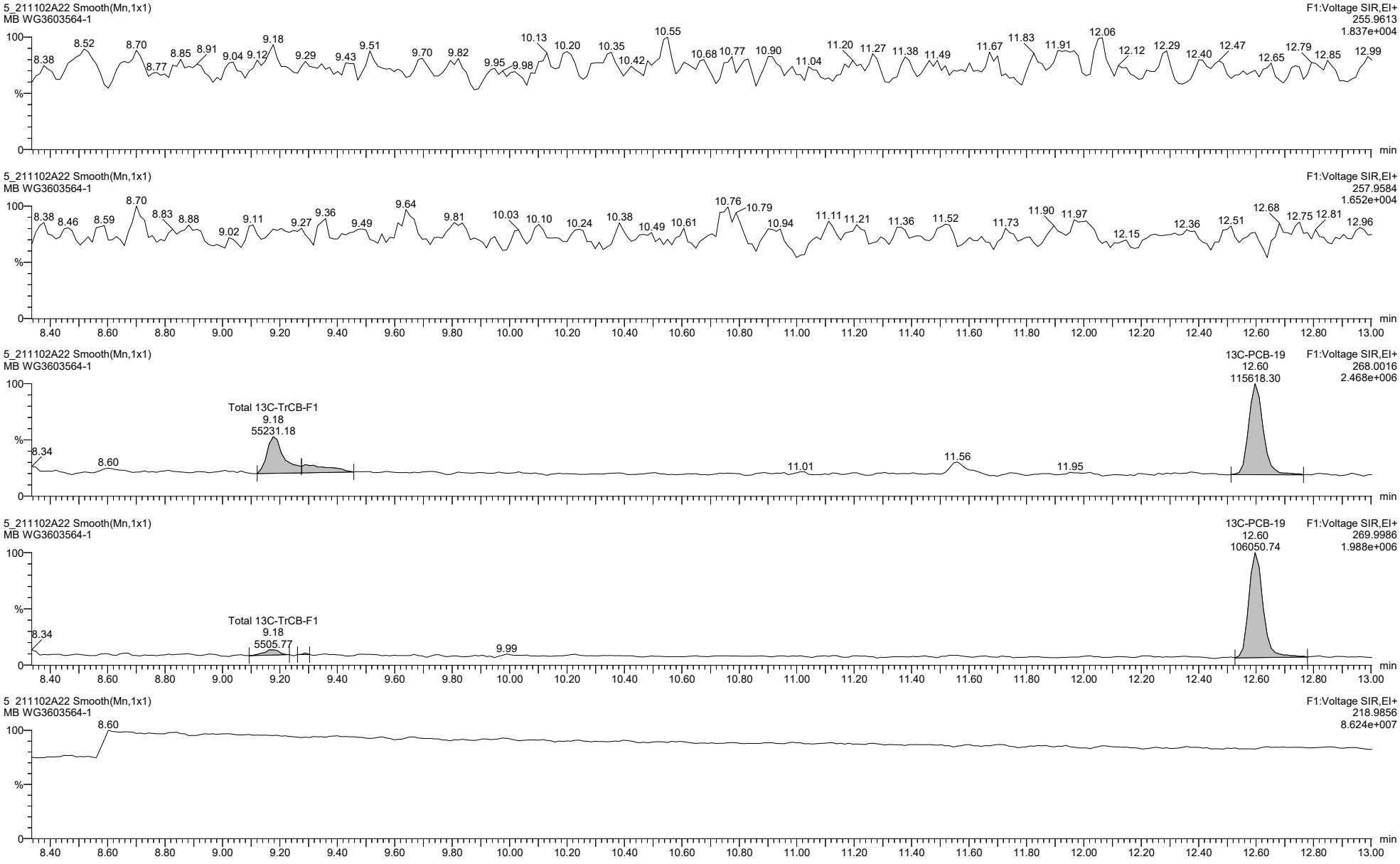

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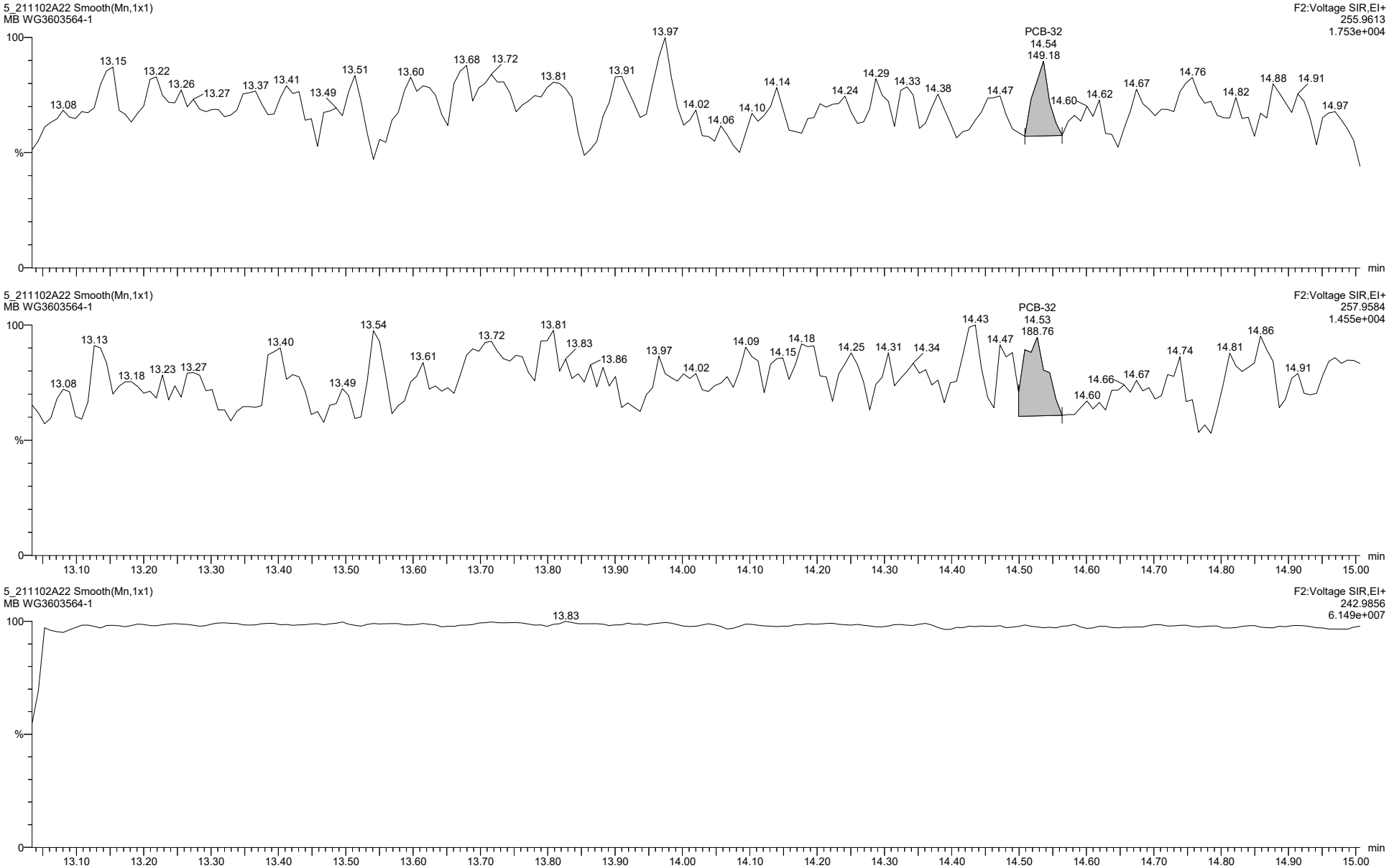

Quantify Sample Template Report **MassLynx V4.2 SCN1012**

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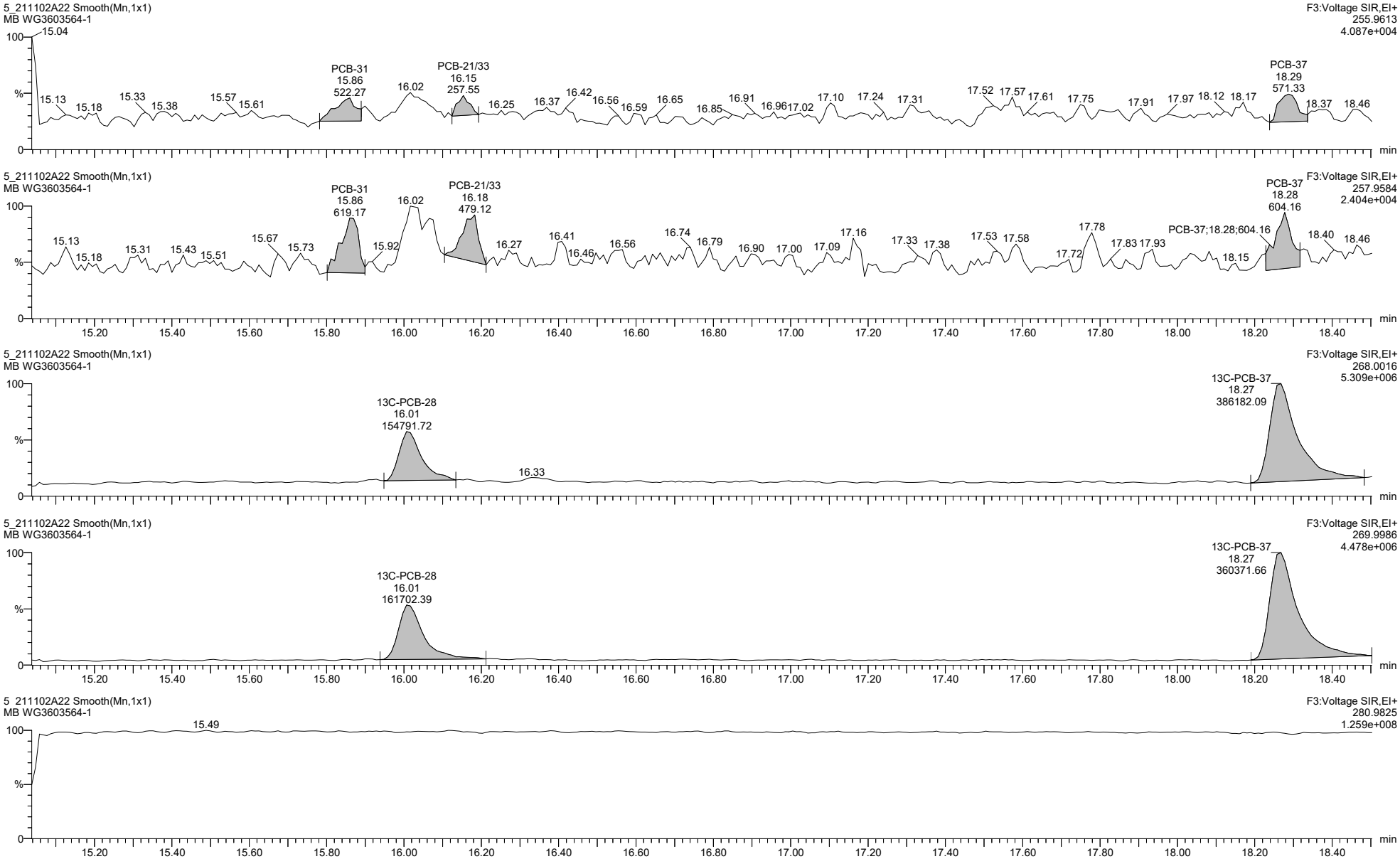

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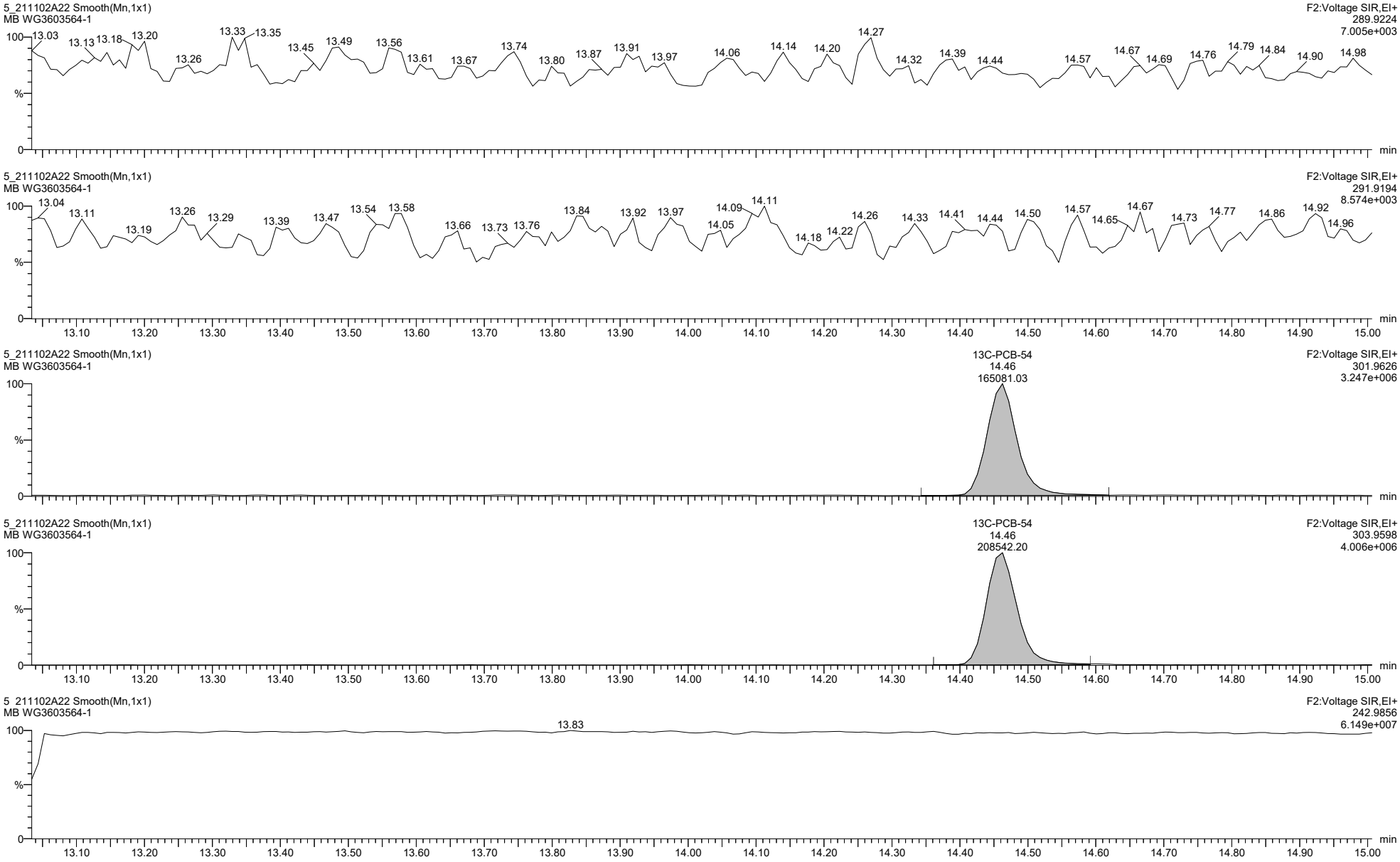

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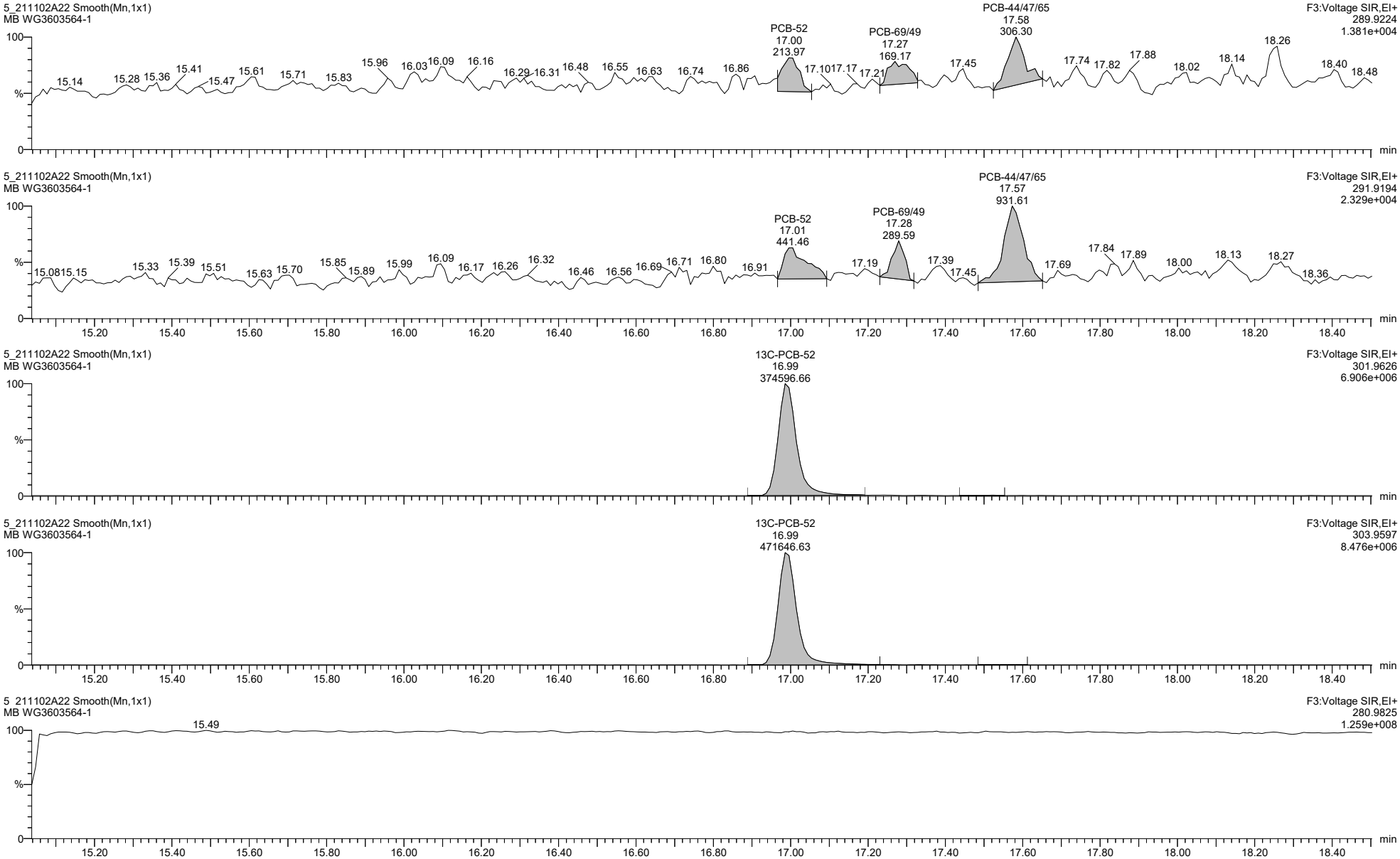

Quantify Sample Template Report **MassLynx V4.2 SCN1012**

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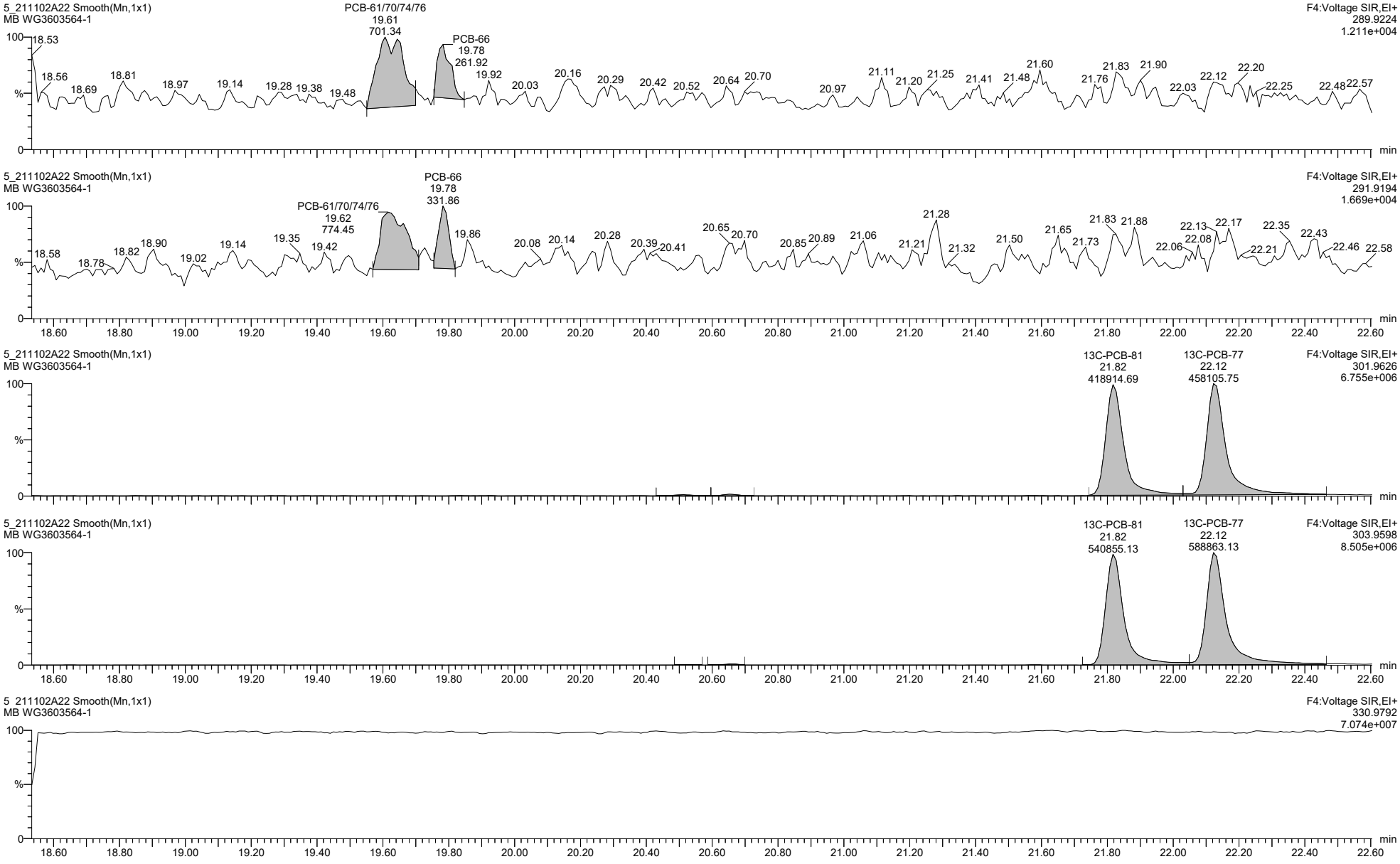

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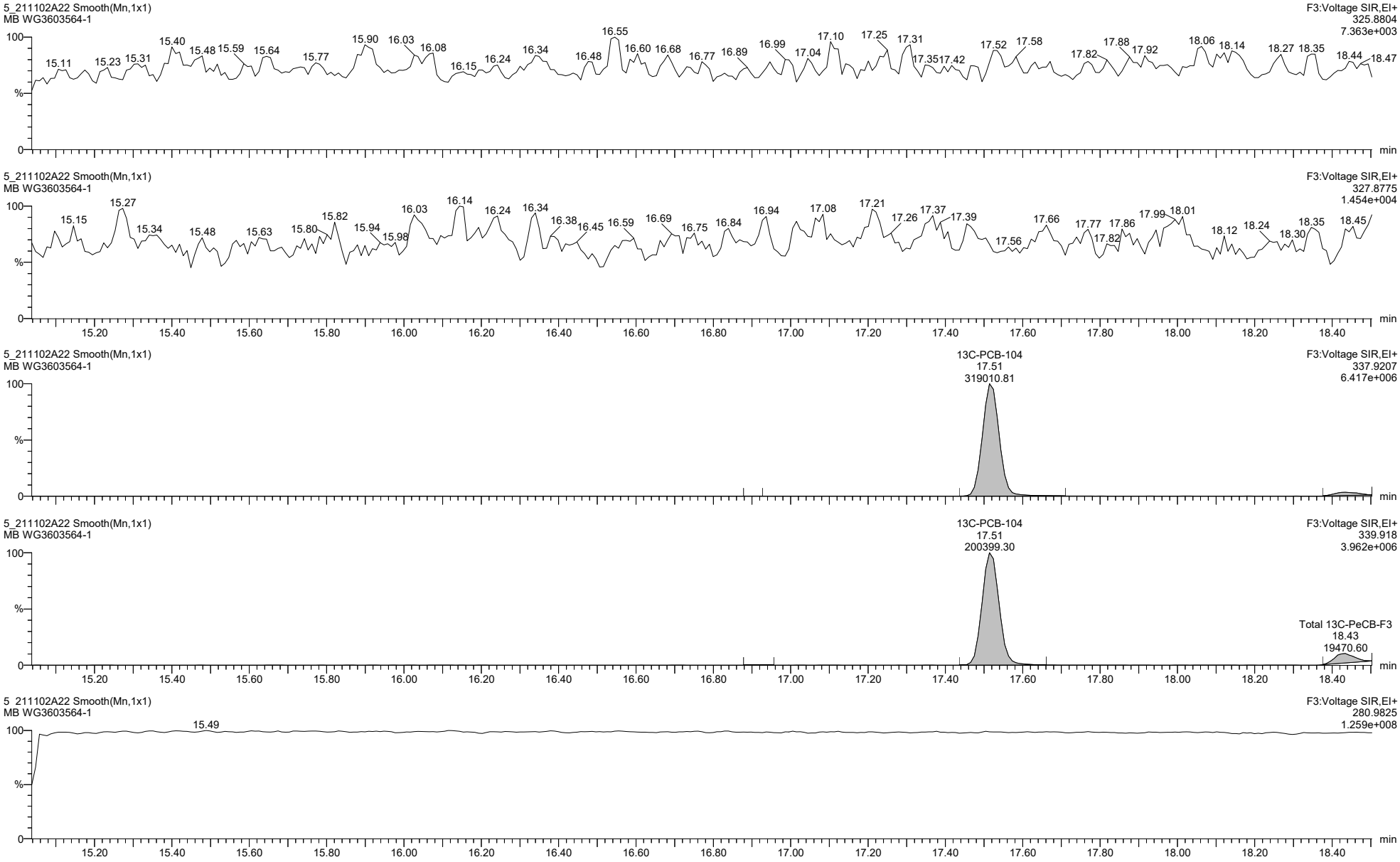

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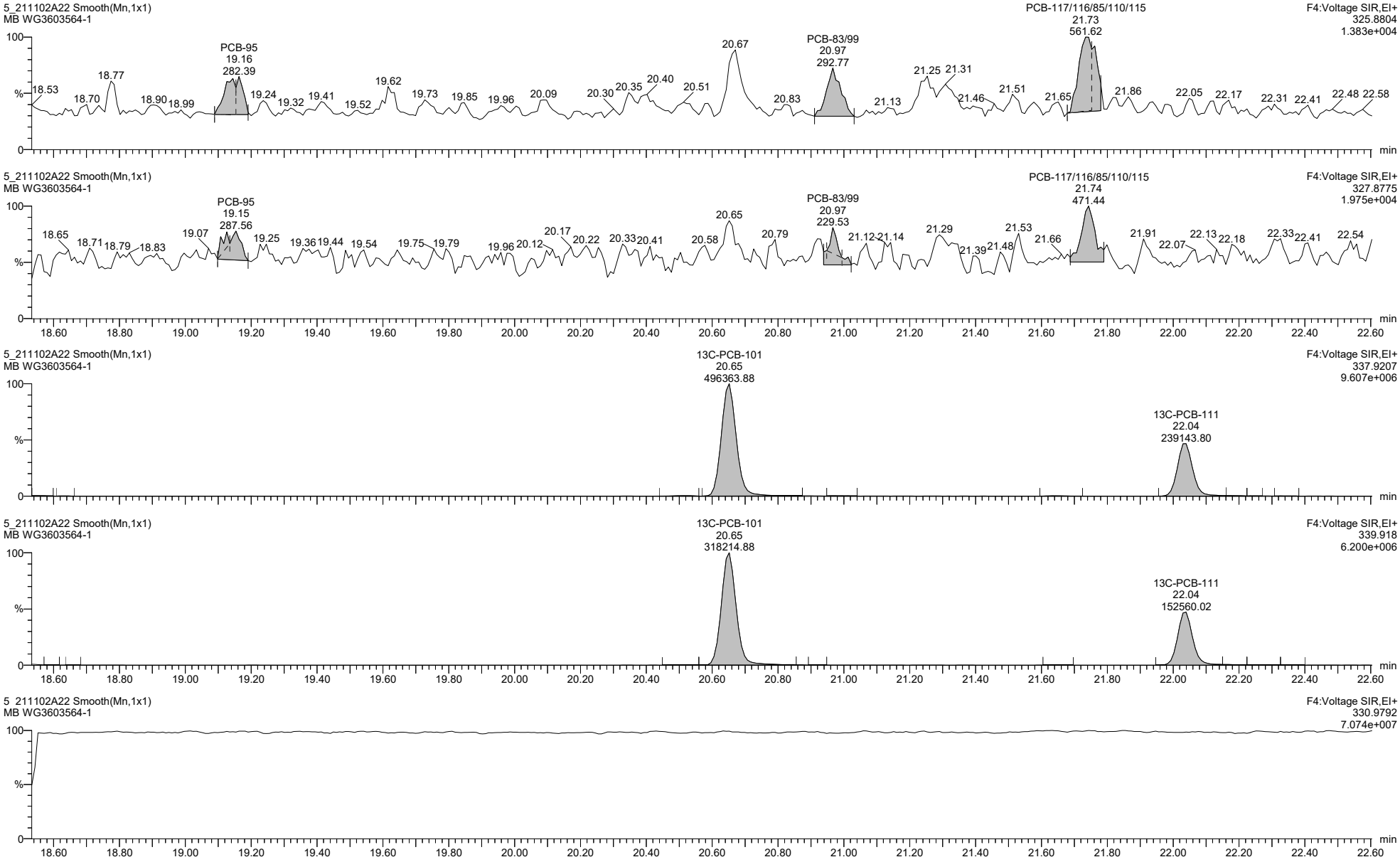

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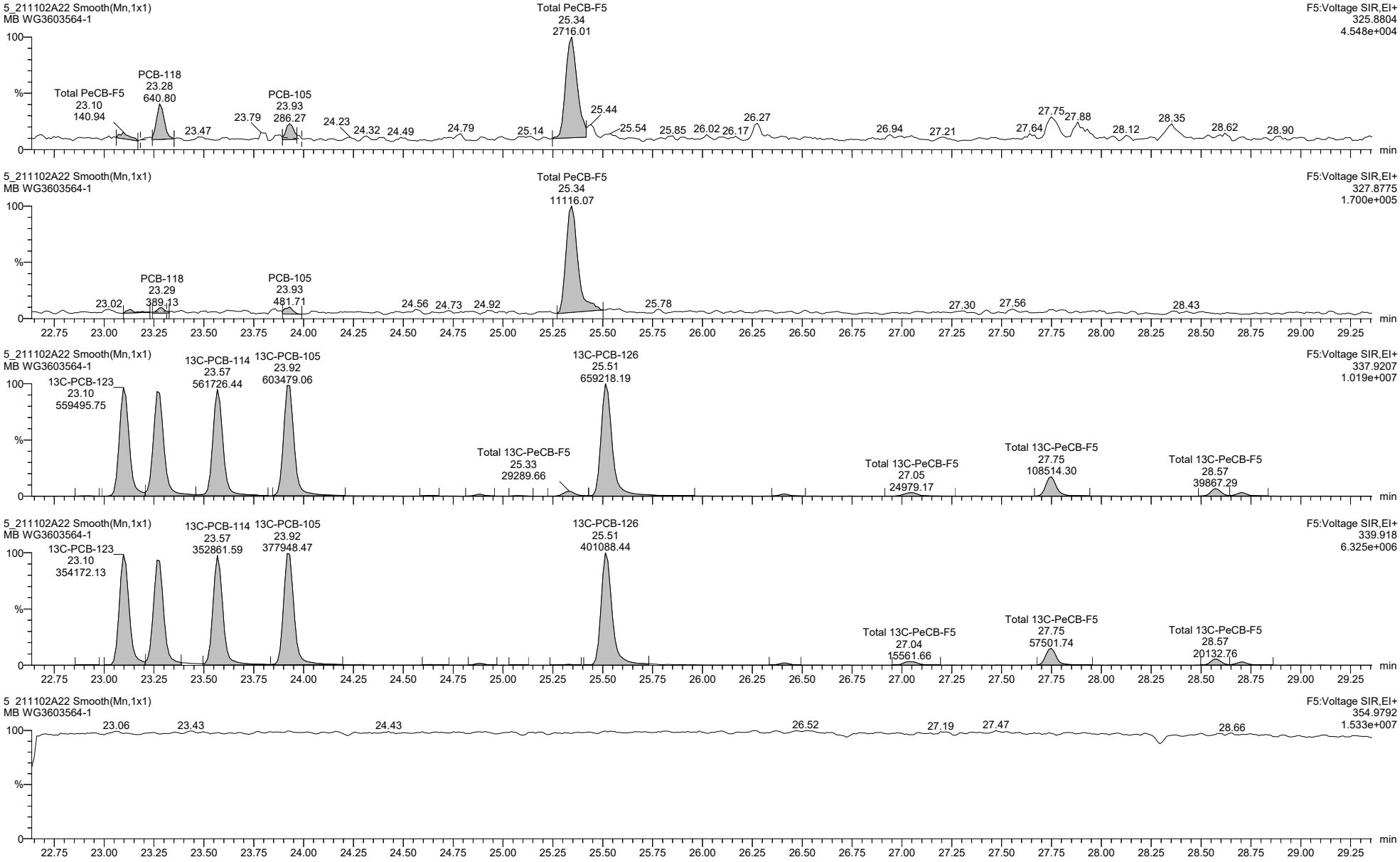

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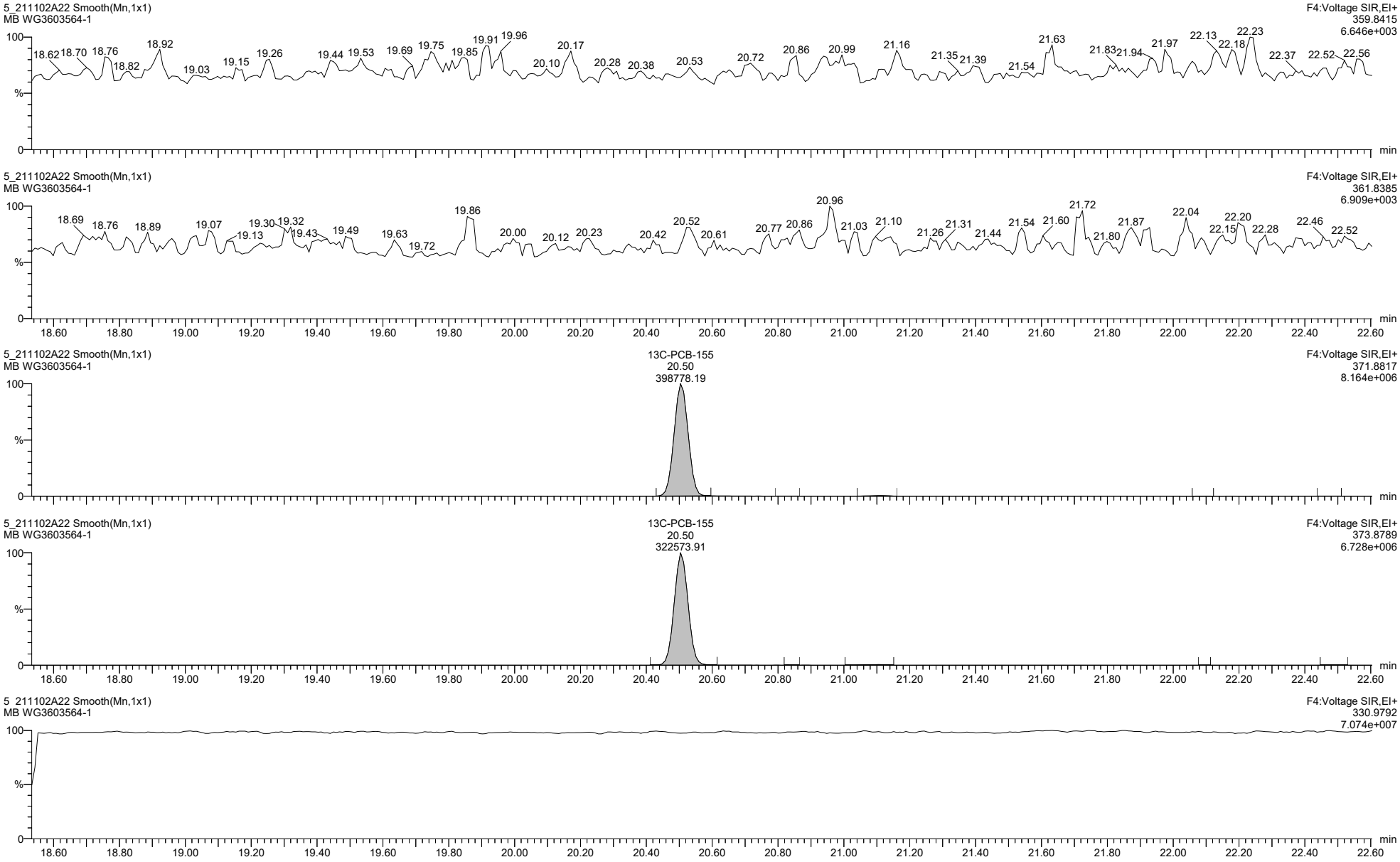

Quantify Sample Template Report **MassLynx V4.2 SCN1012**

Dataset: I:\Organics Instrument\HIGHRES GCMS Completed Results Files\HR-5\5-211102A2-1108NA.qld

Last Altered: Monday, November 08, 2021 13:43:10 Eastern Standard Time
Printed: Monday, November 08, 2021 15:57:46 Eastern Standard Time

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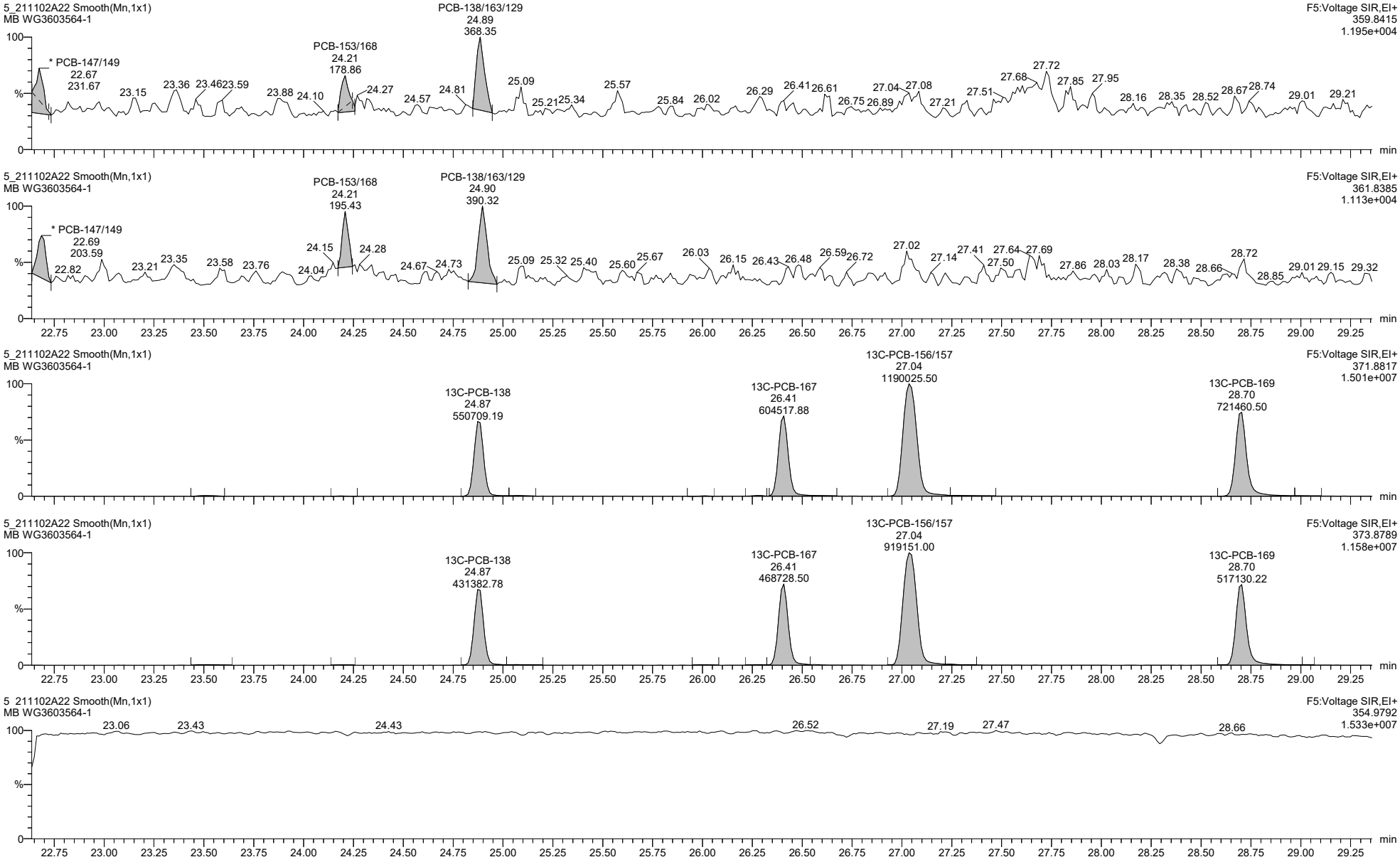

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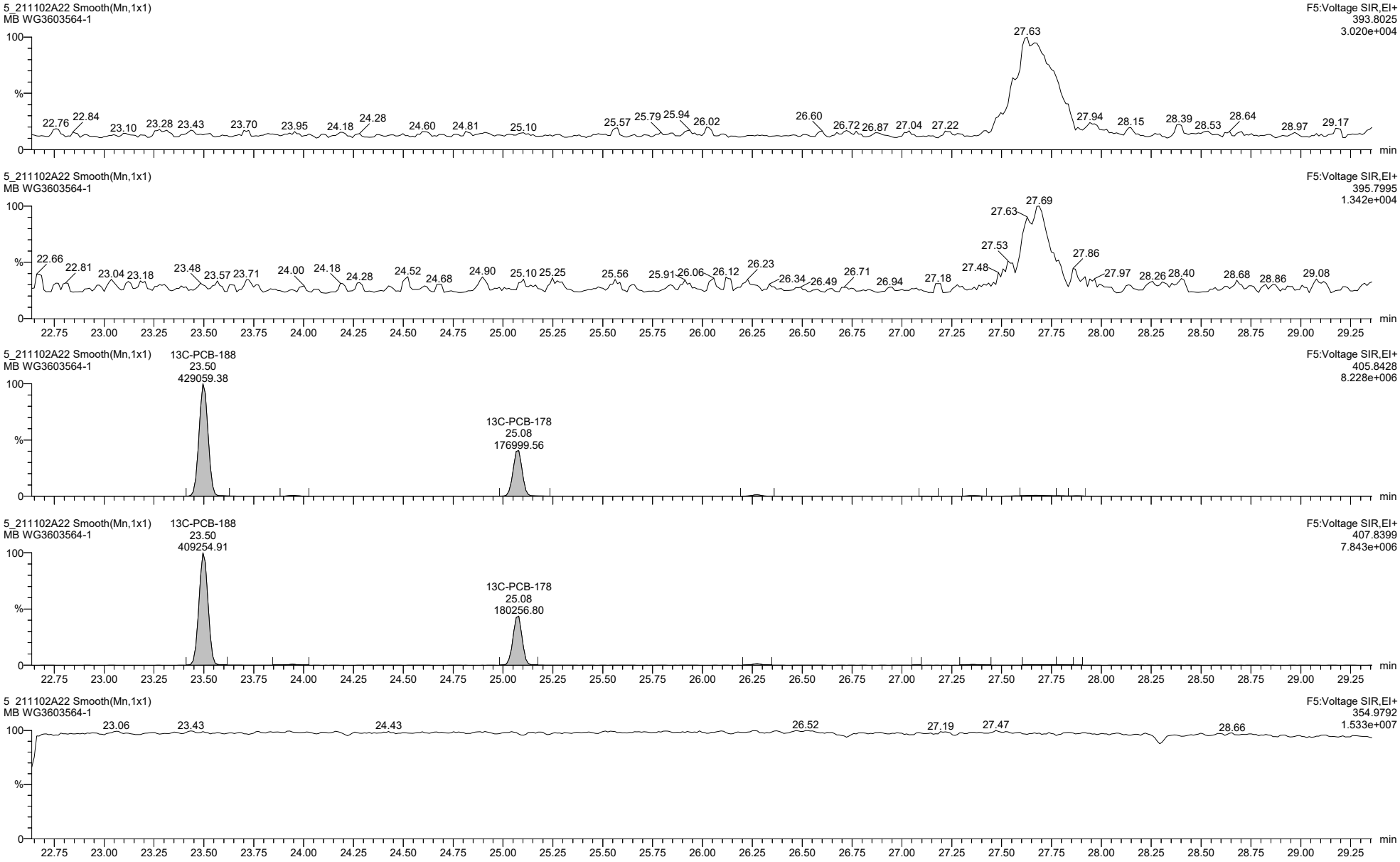

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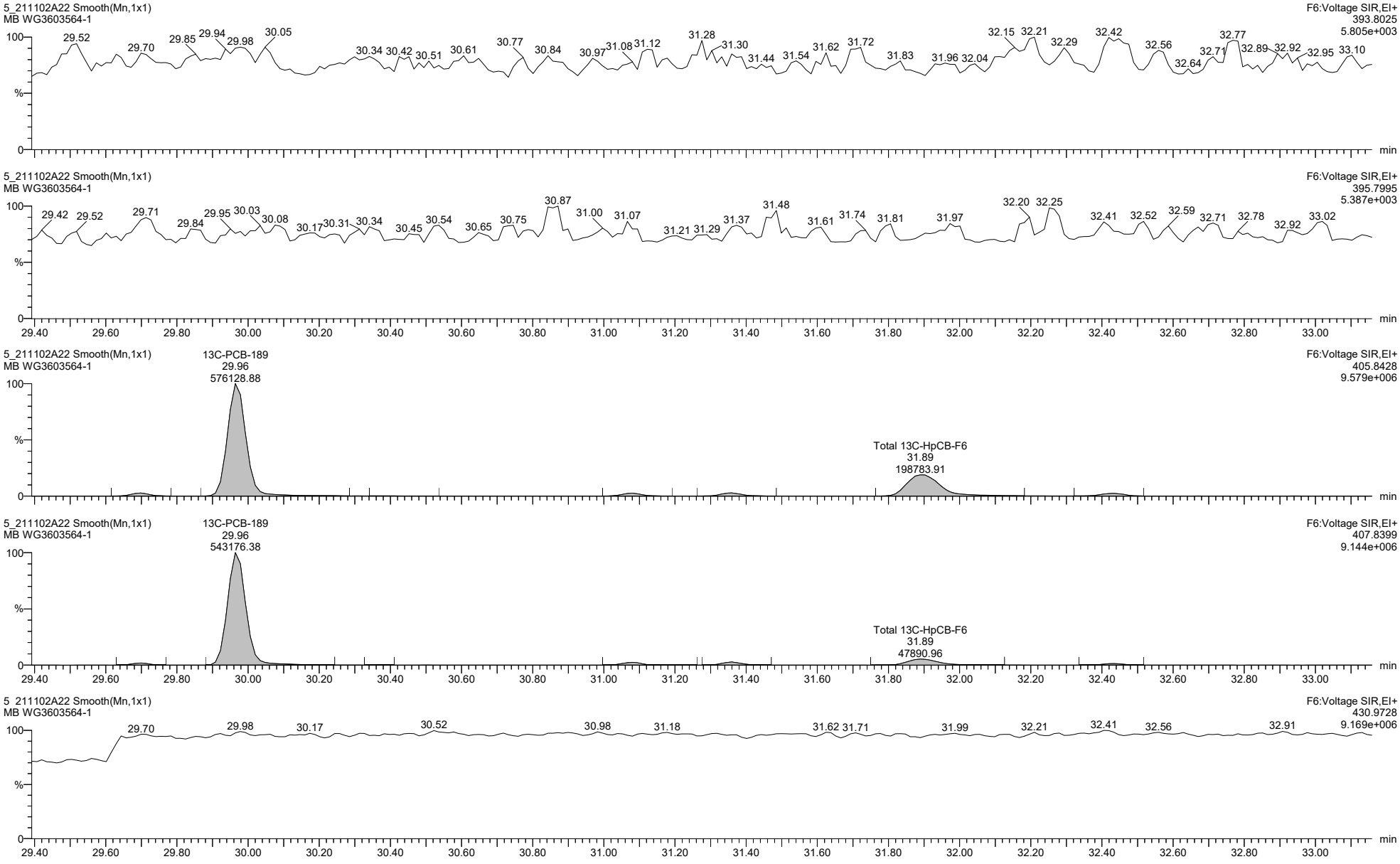

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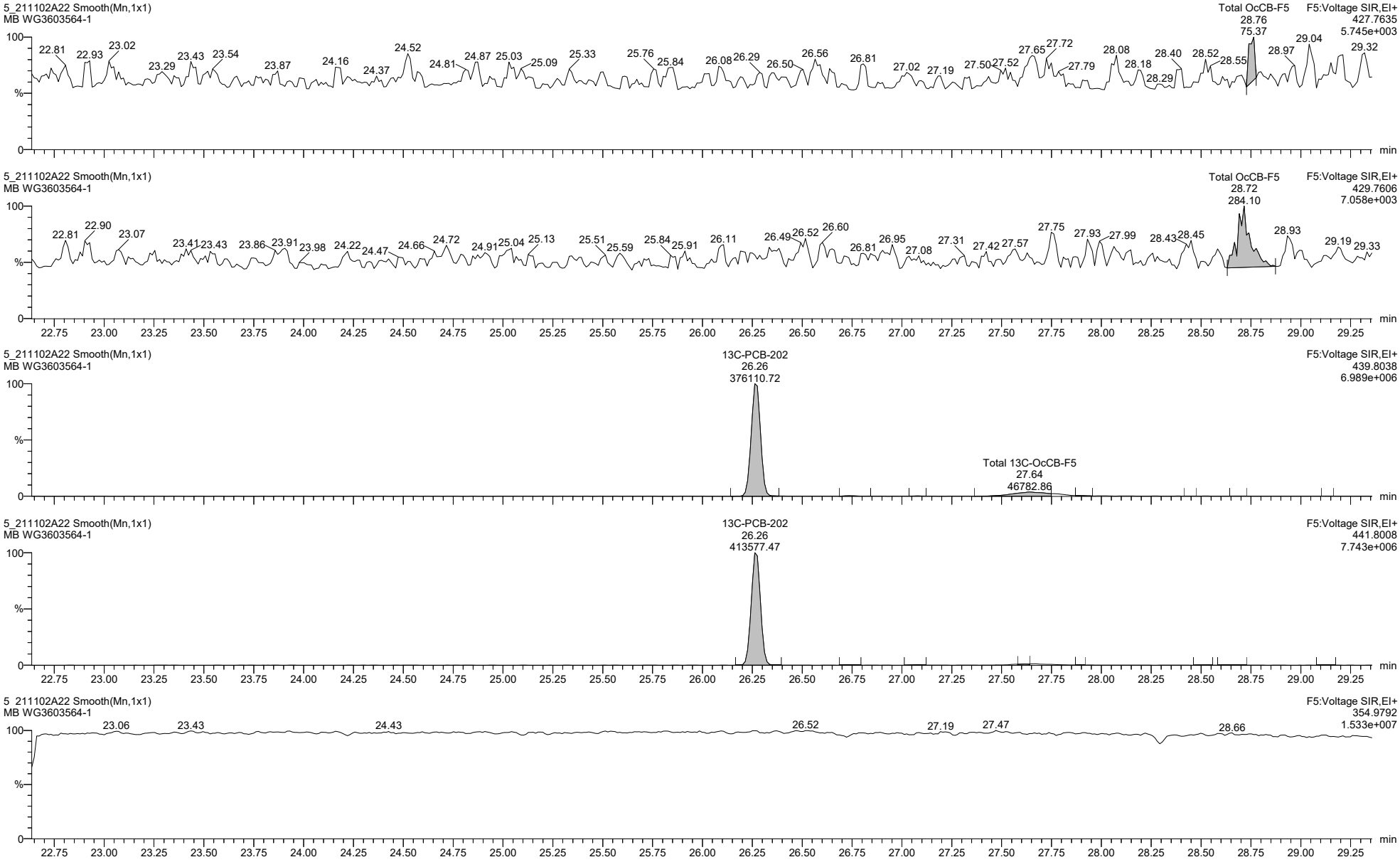

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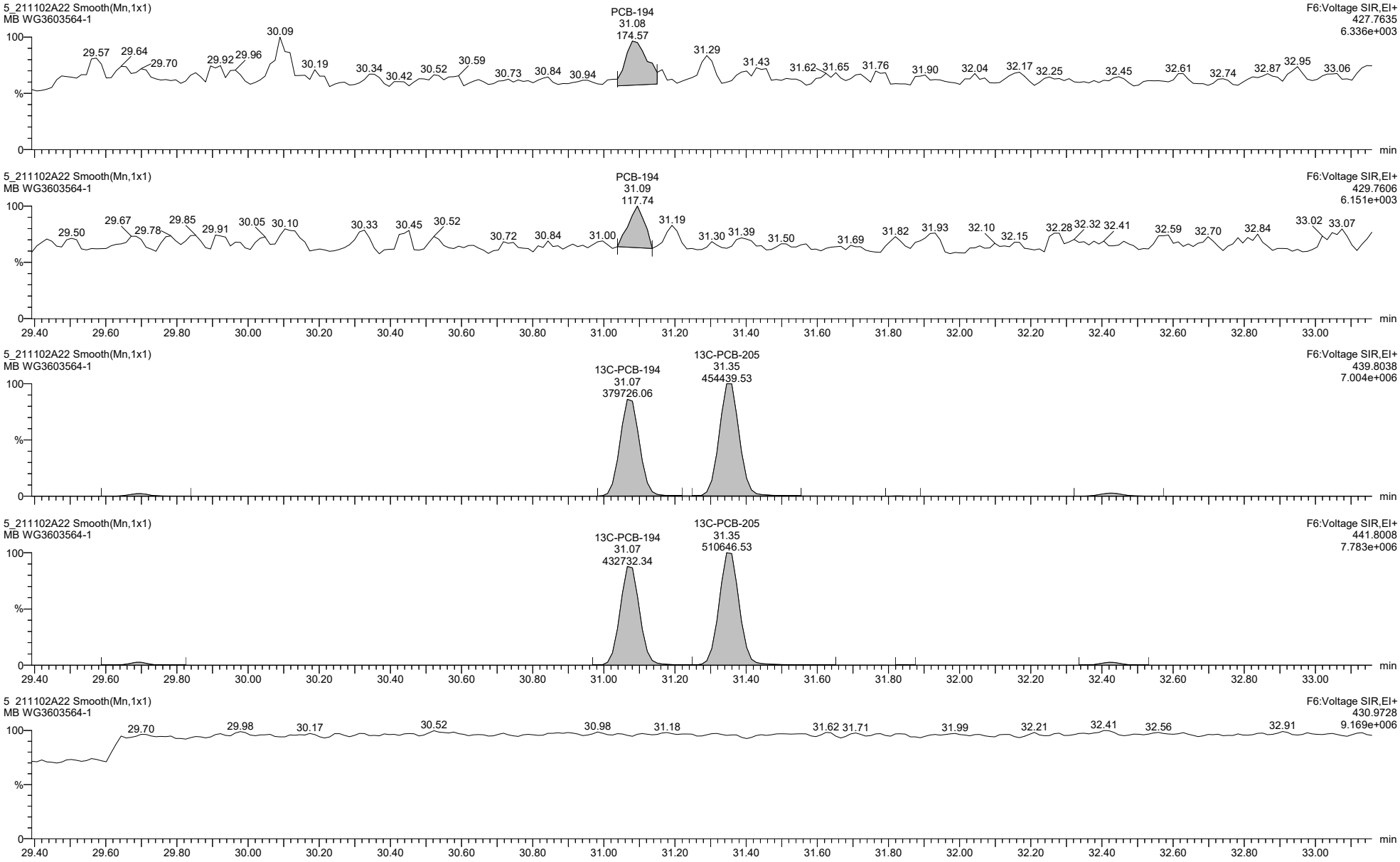

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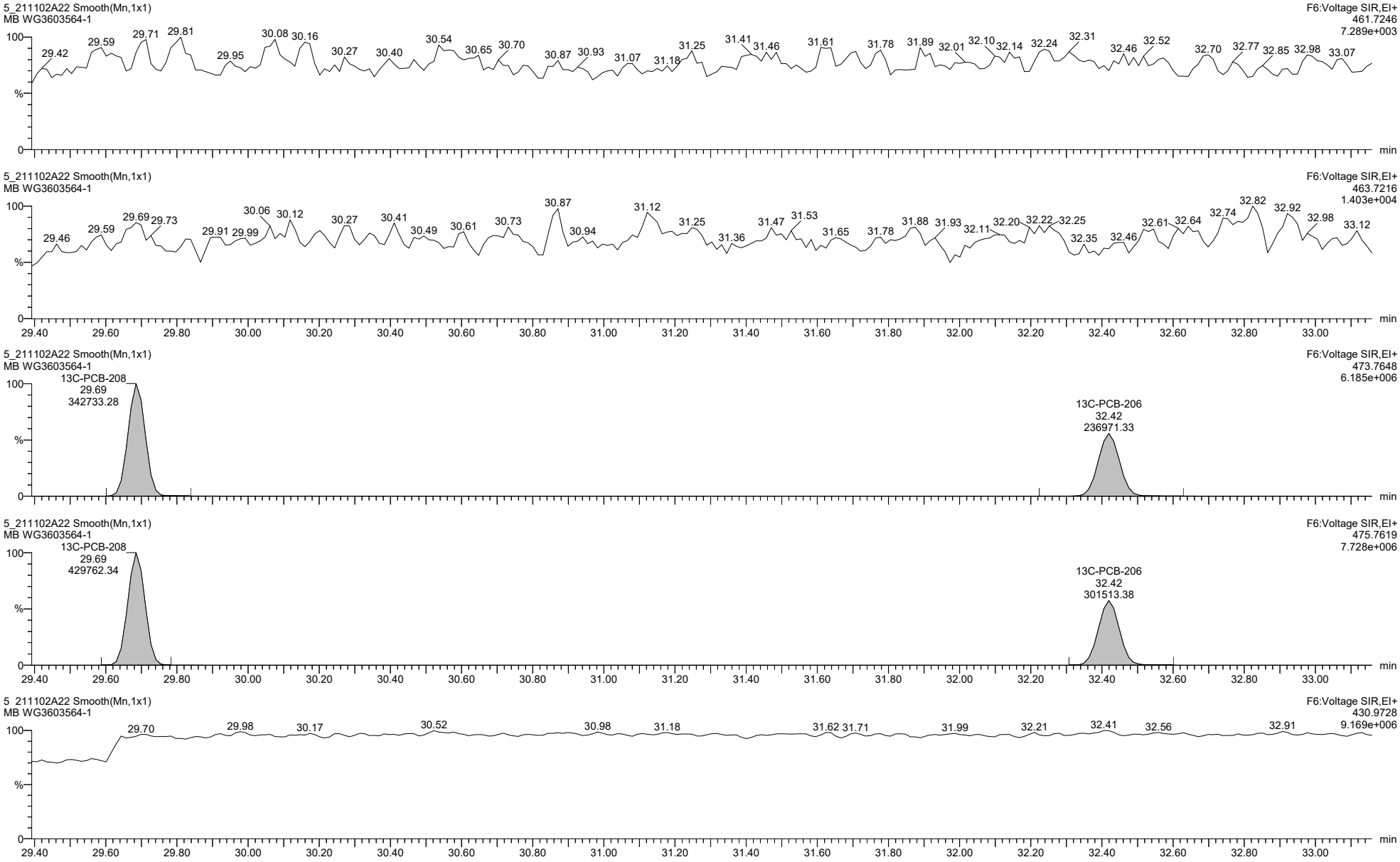

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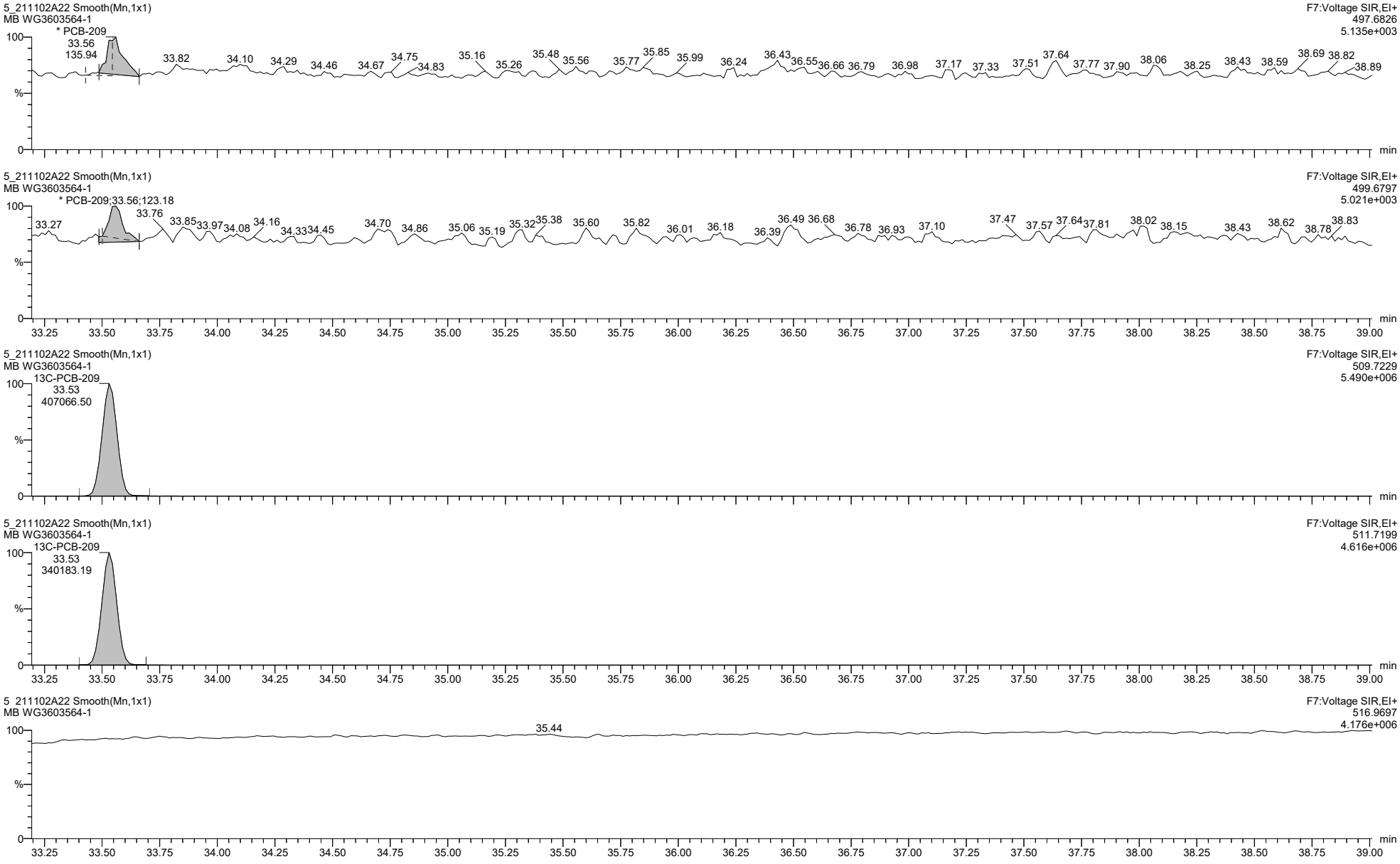

Quantify Sample Template Report **MassLynx V4.2 SCN1012**

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Last Altered: Monday, November 08, 2021 13:43:10 Eastern Standard Time
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Method: C:\MassLynx\PCB.PRO\MethDB\1668_OCTYL_209-1025.mdb 25 Oct 2021 11:29:00
Calibration: 08 Nov 2021 13:20:26

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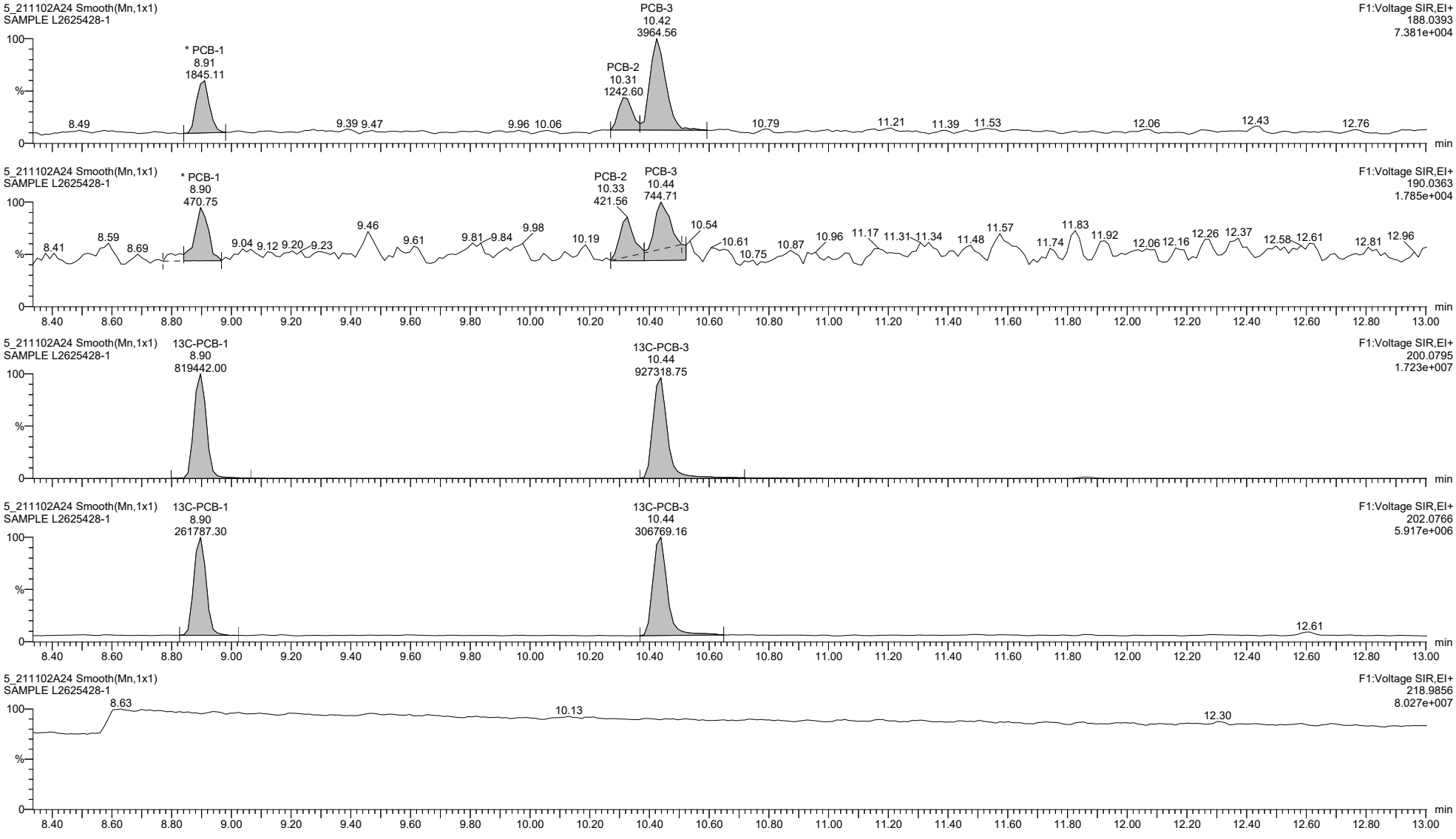

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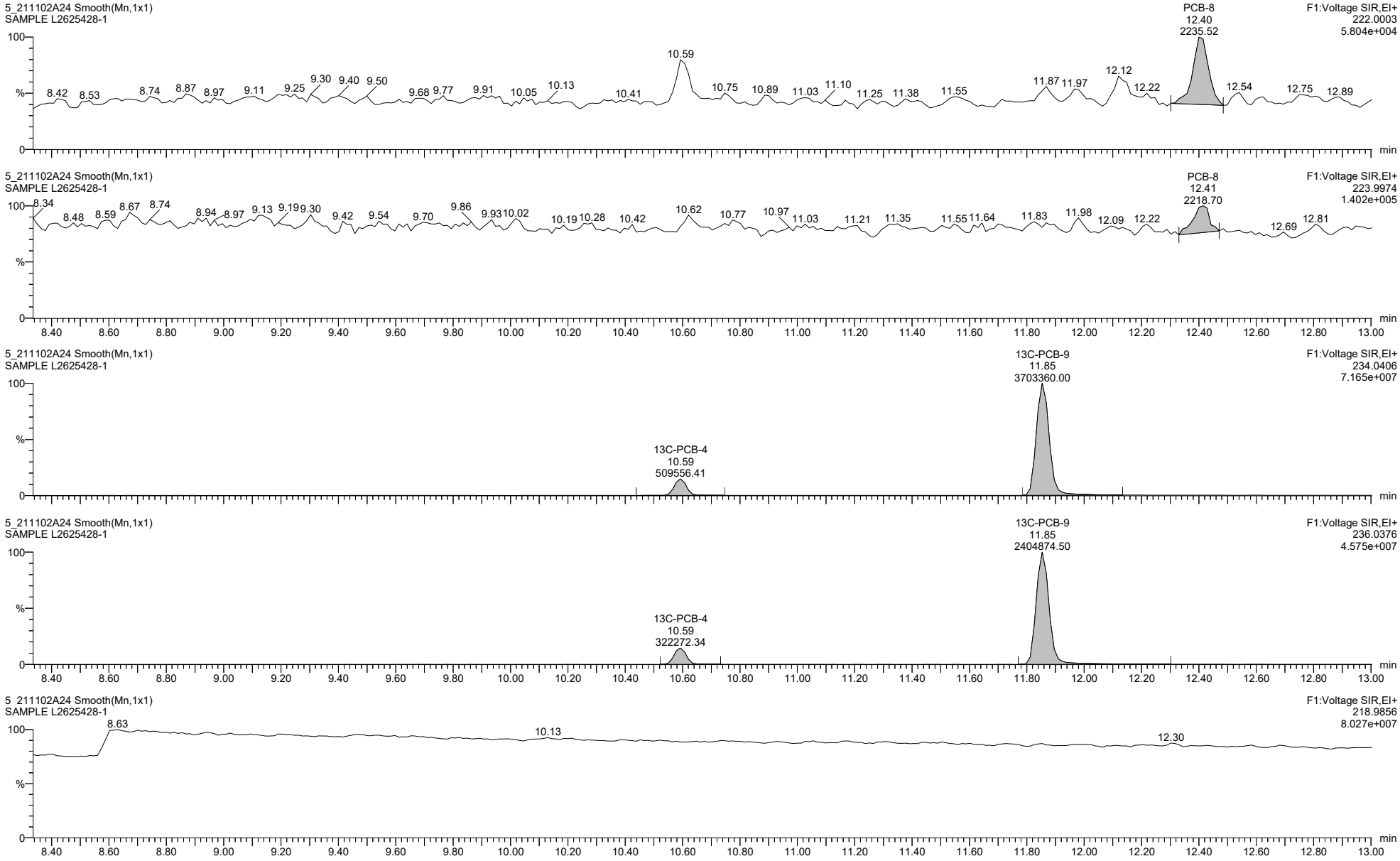

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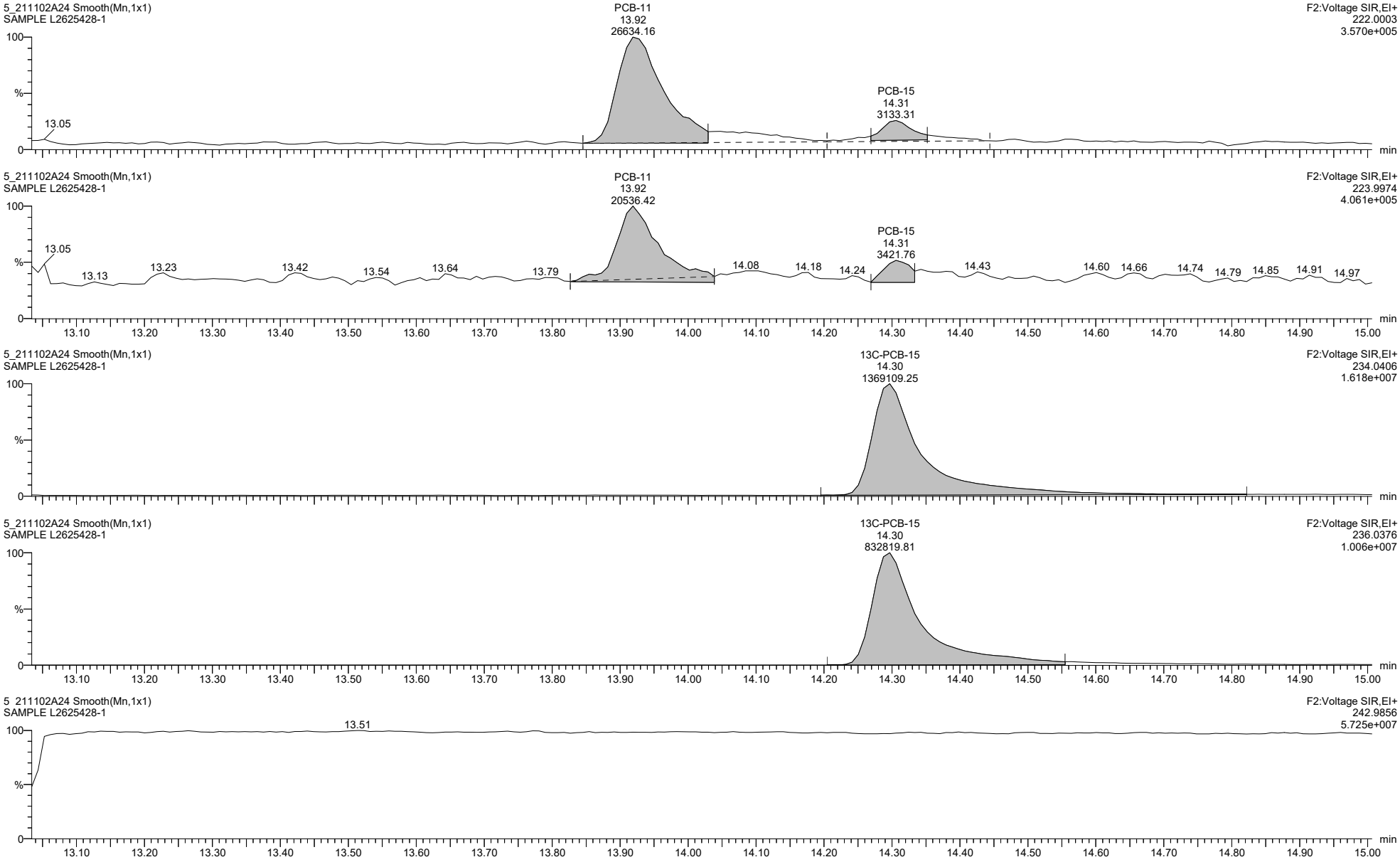

Quantify Sample Template Report **MassLynx V4.2 SCN1012**

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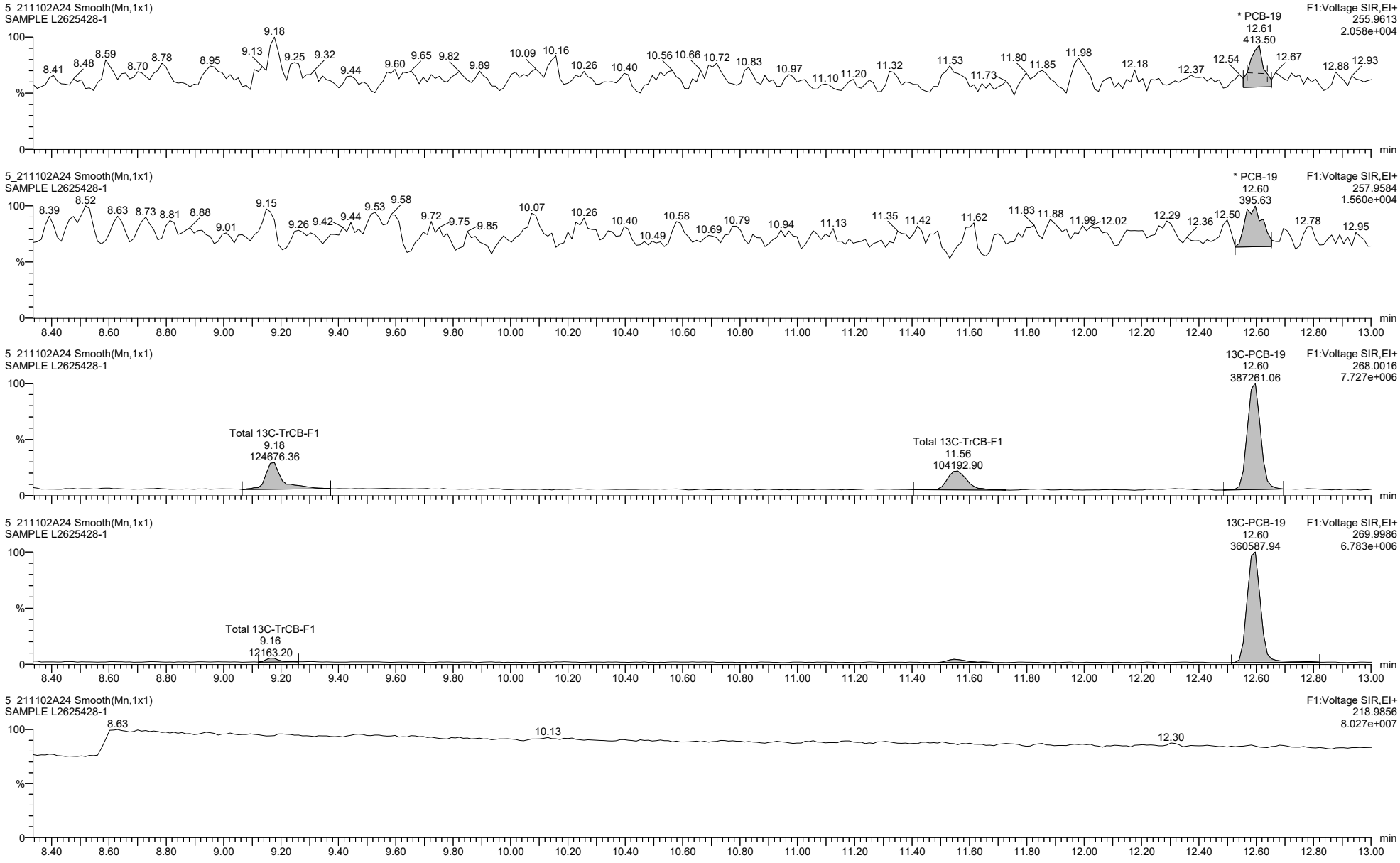

Quantify Sample Template Report **MassLynx V4.2 SCN1012**

Dataset: I:\Organics Instrument\HIGHRES GCMS Completed Results Files\HR-5\5-211102A2-1108NA.qld

Last Altered: Monday, November 08, 2021 13:43:10 Eastern Standard Time
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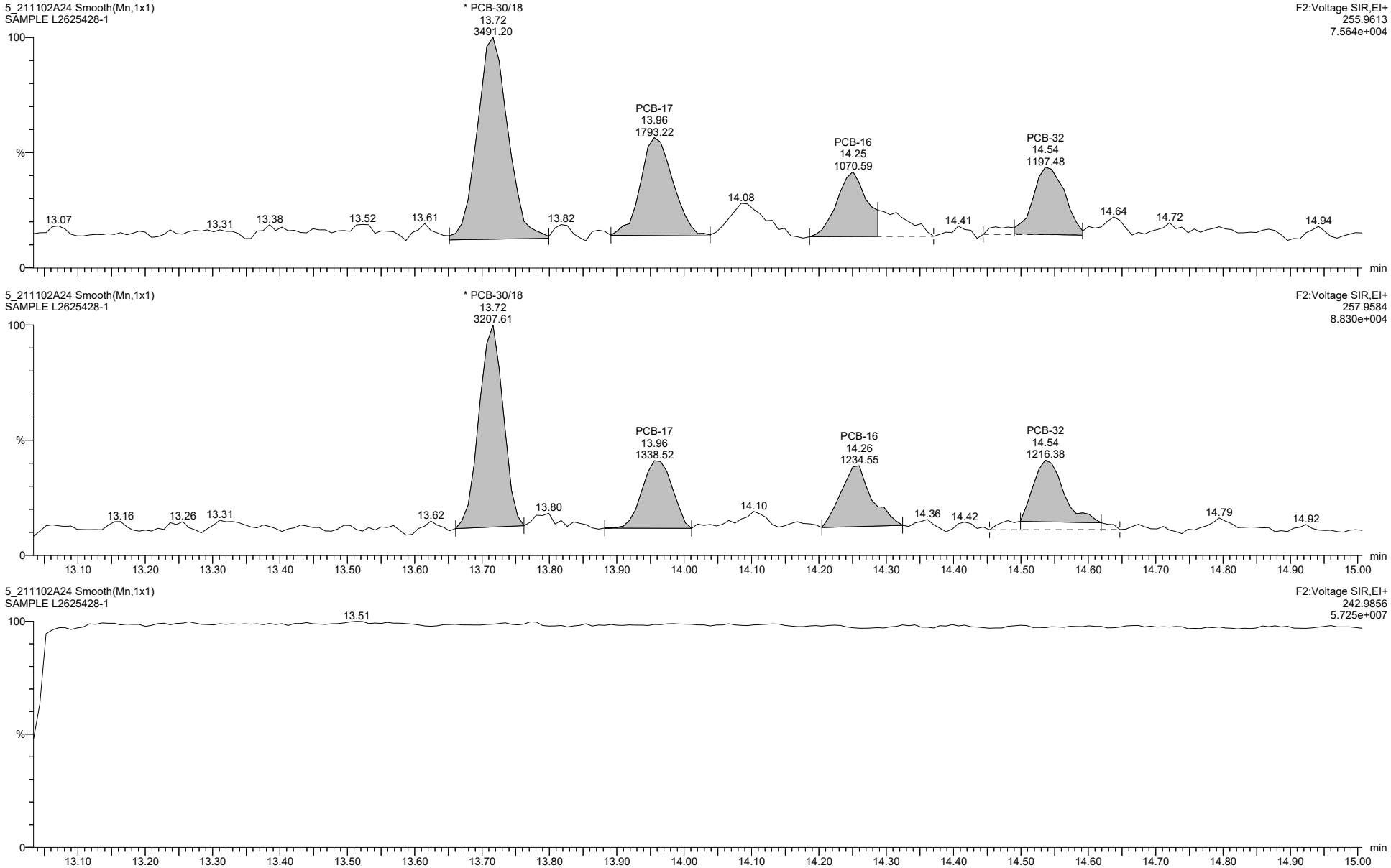

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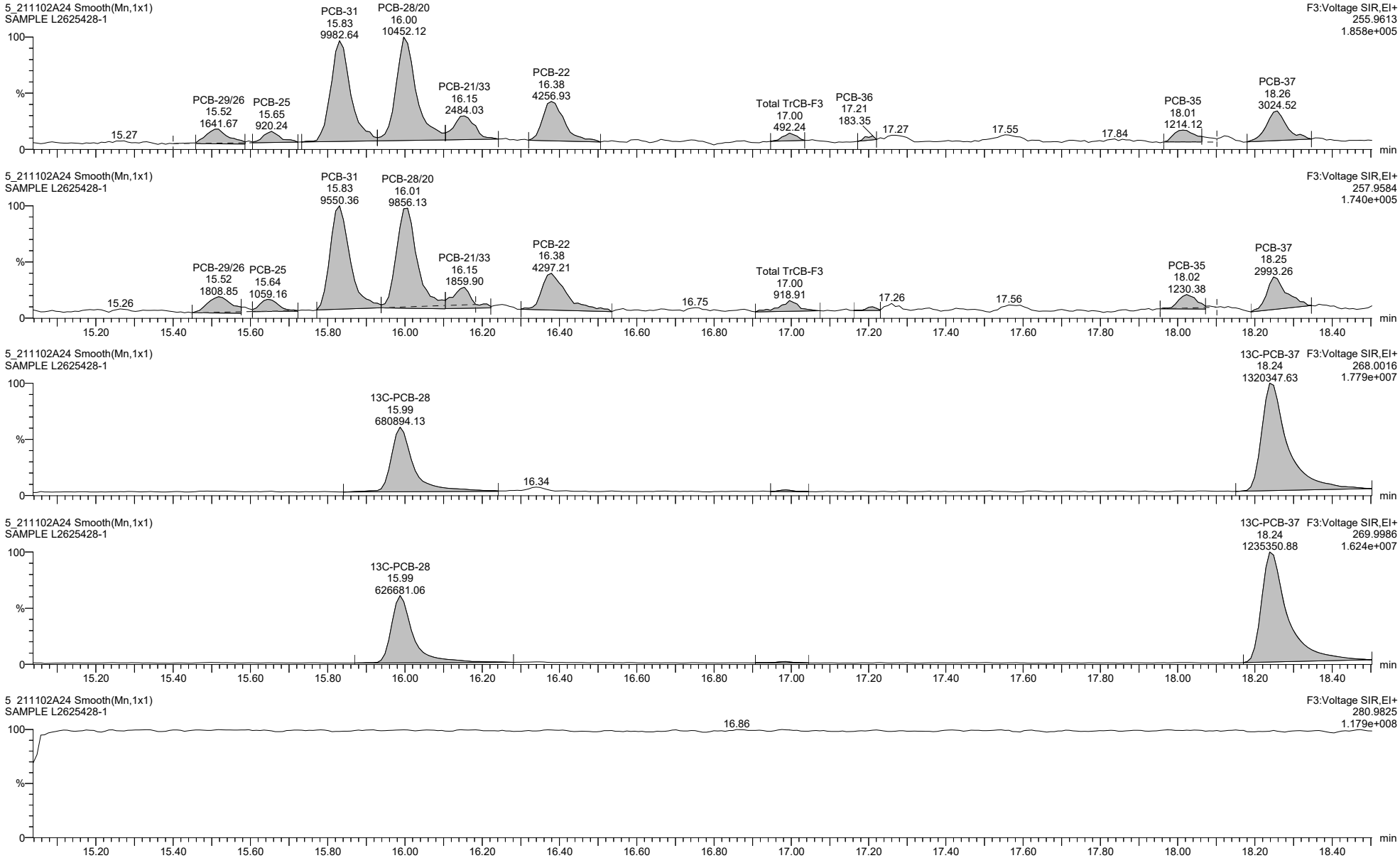

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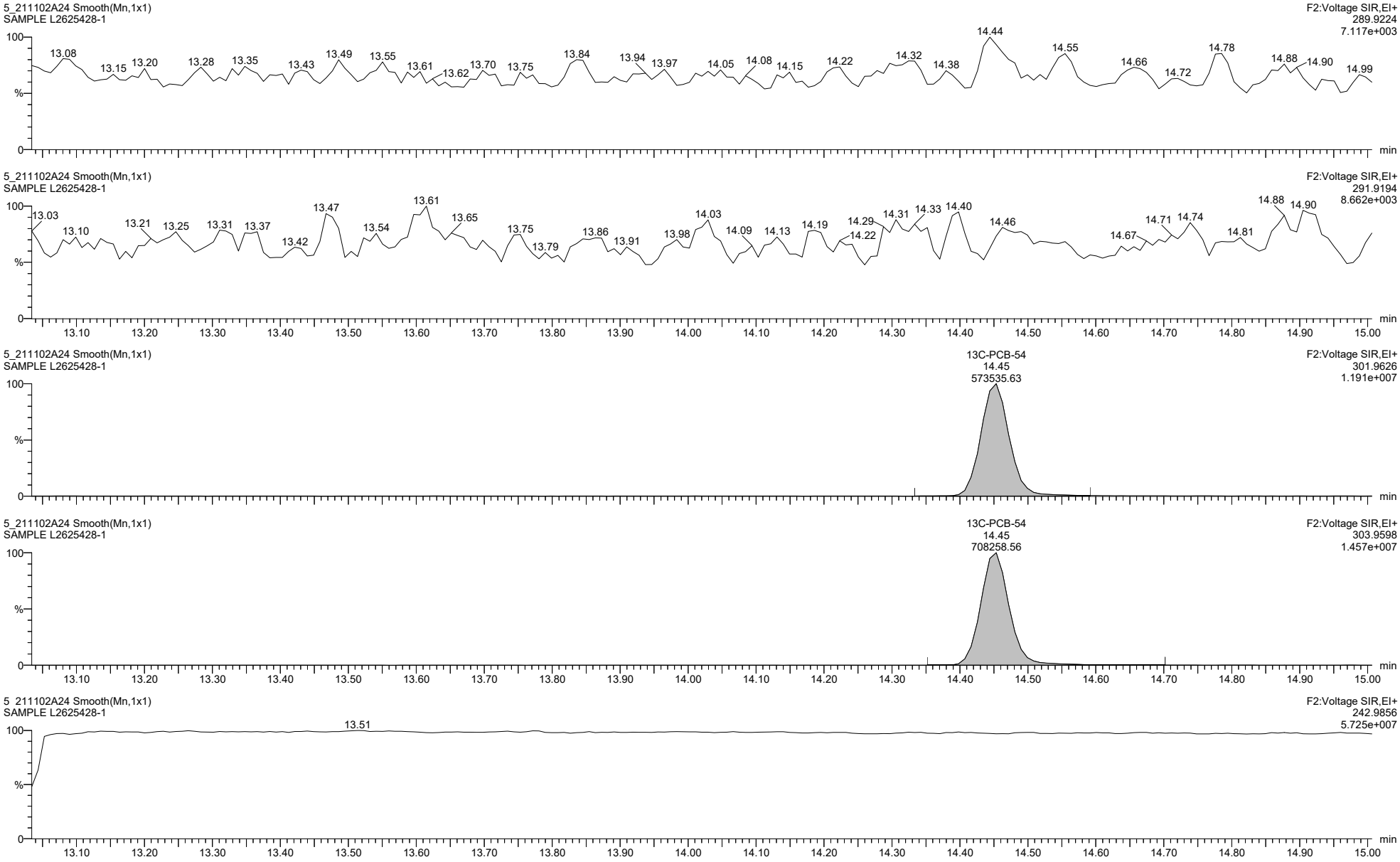

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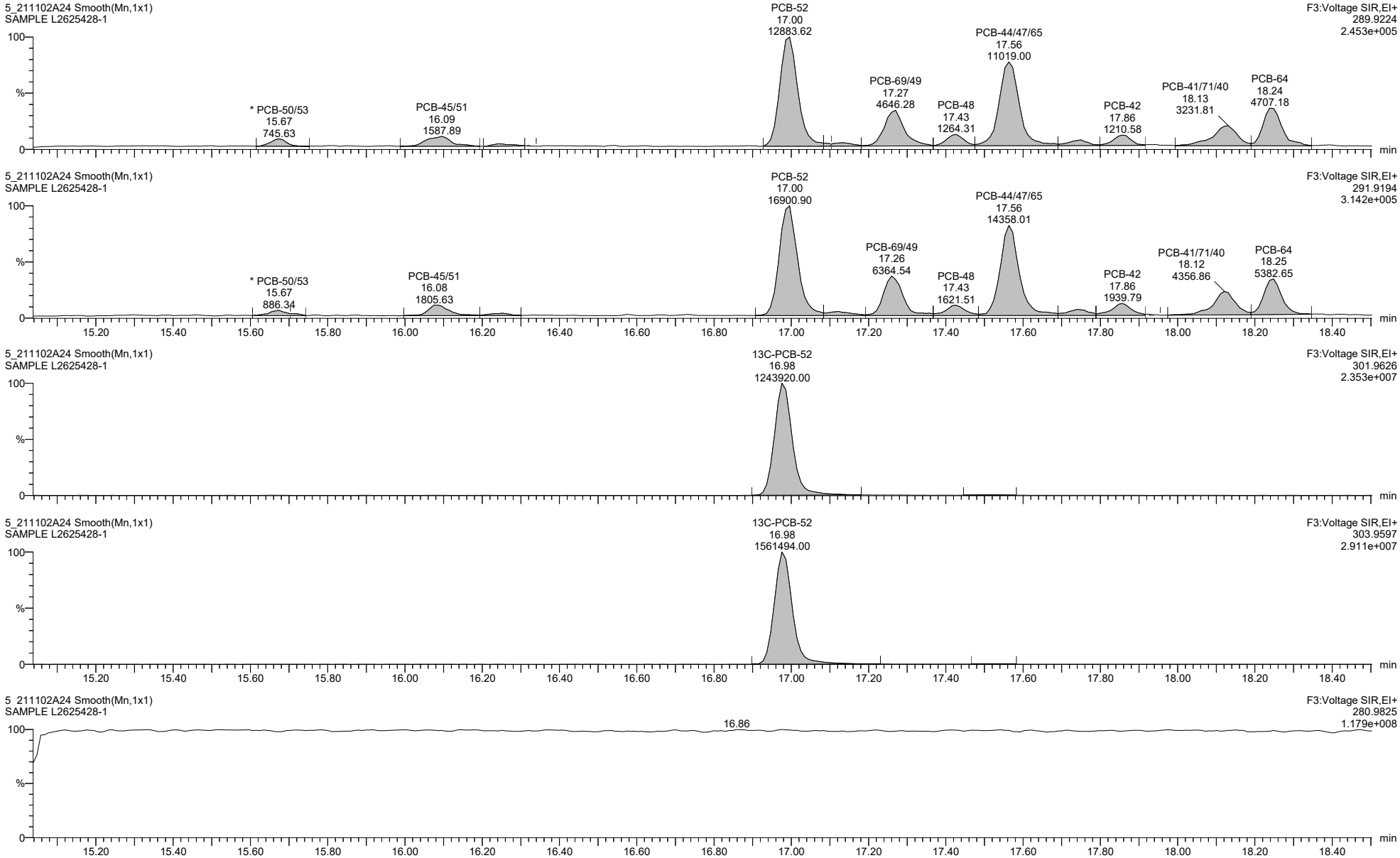

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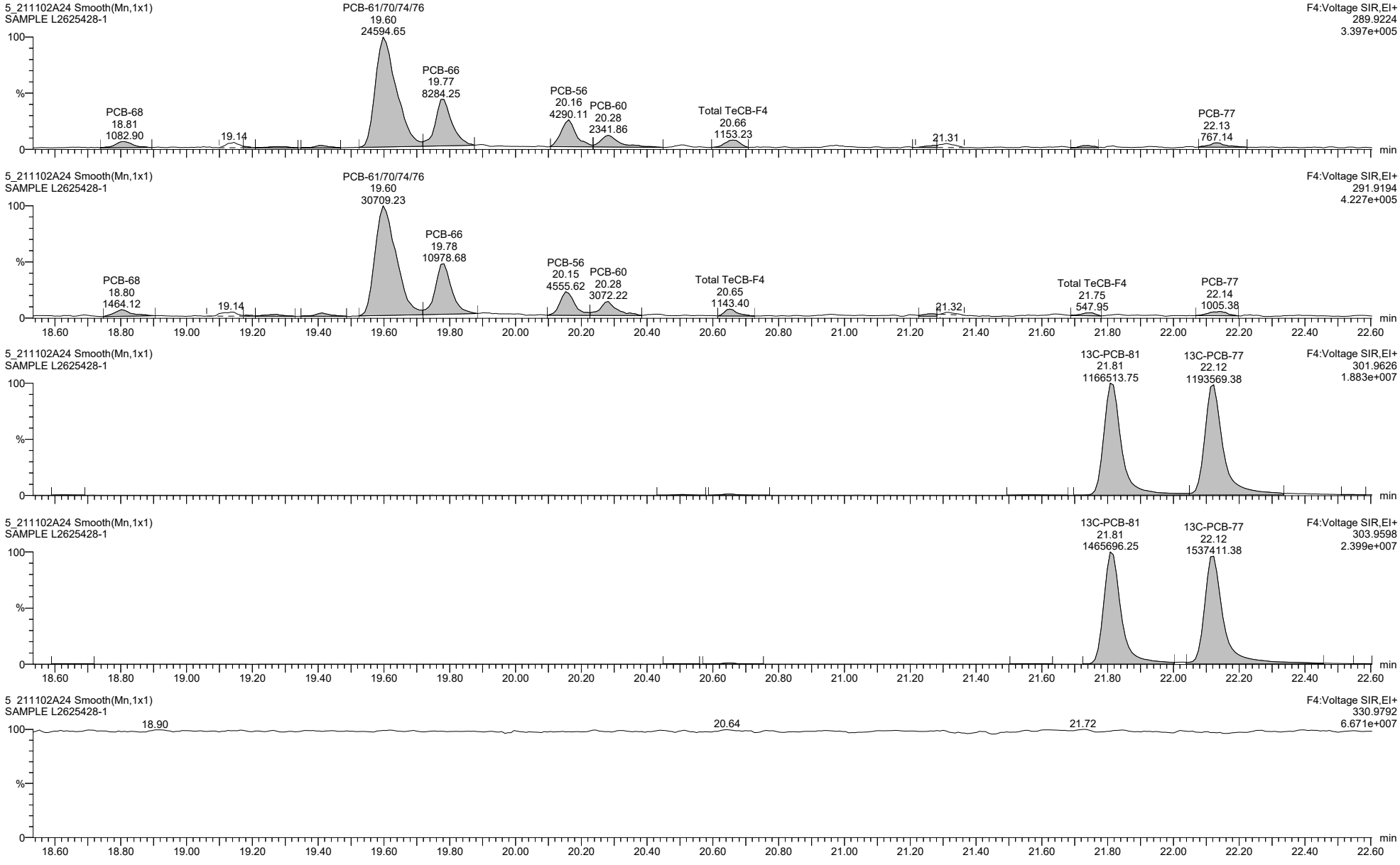

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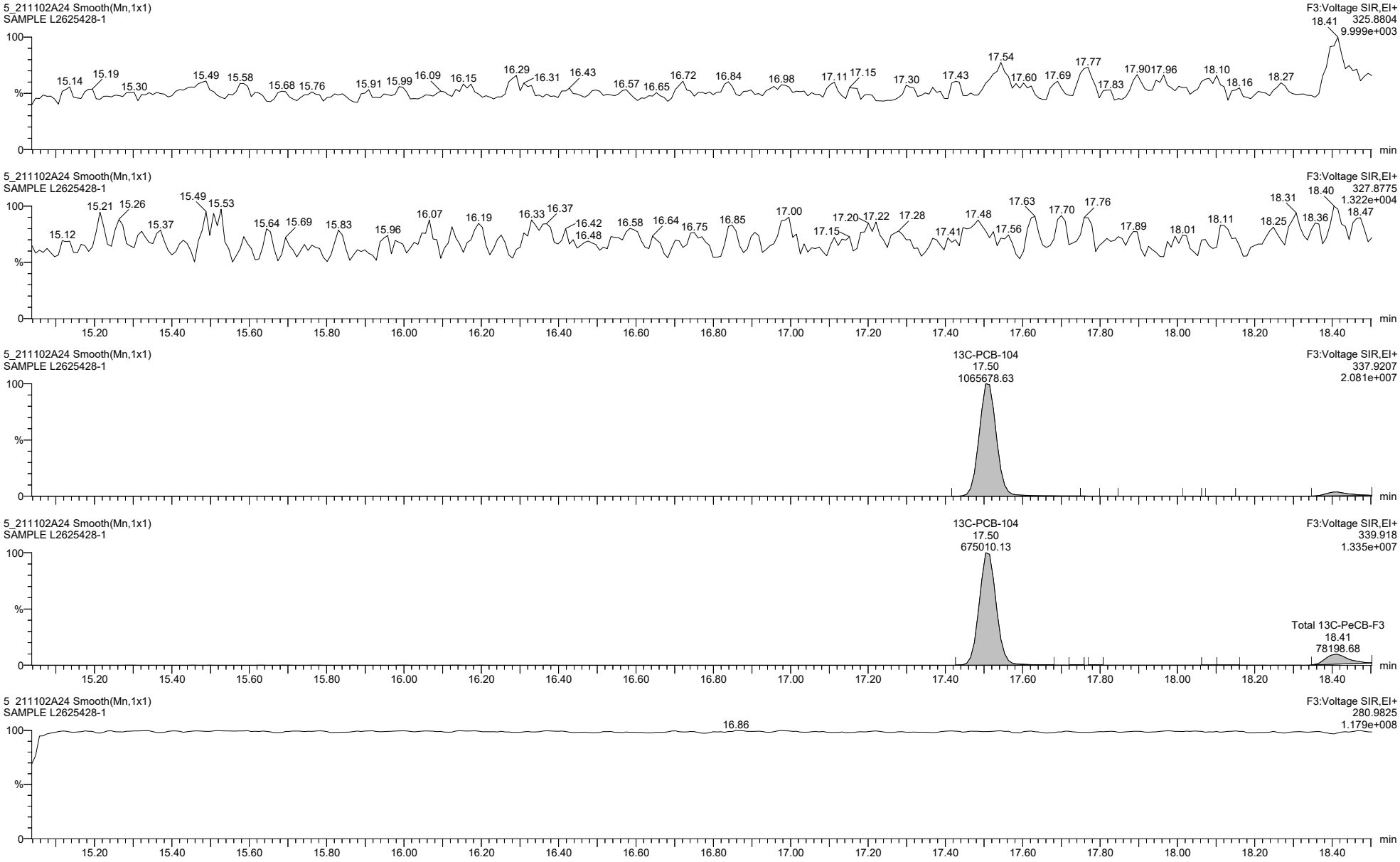

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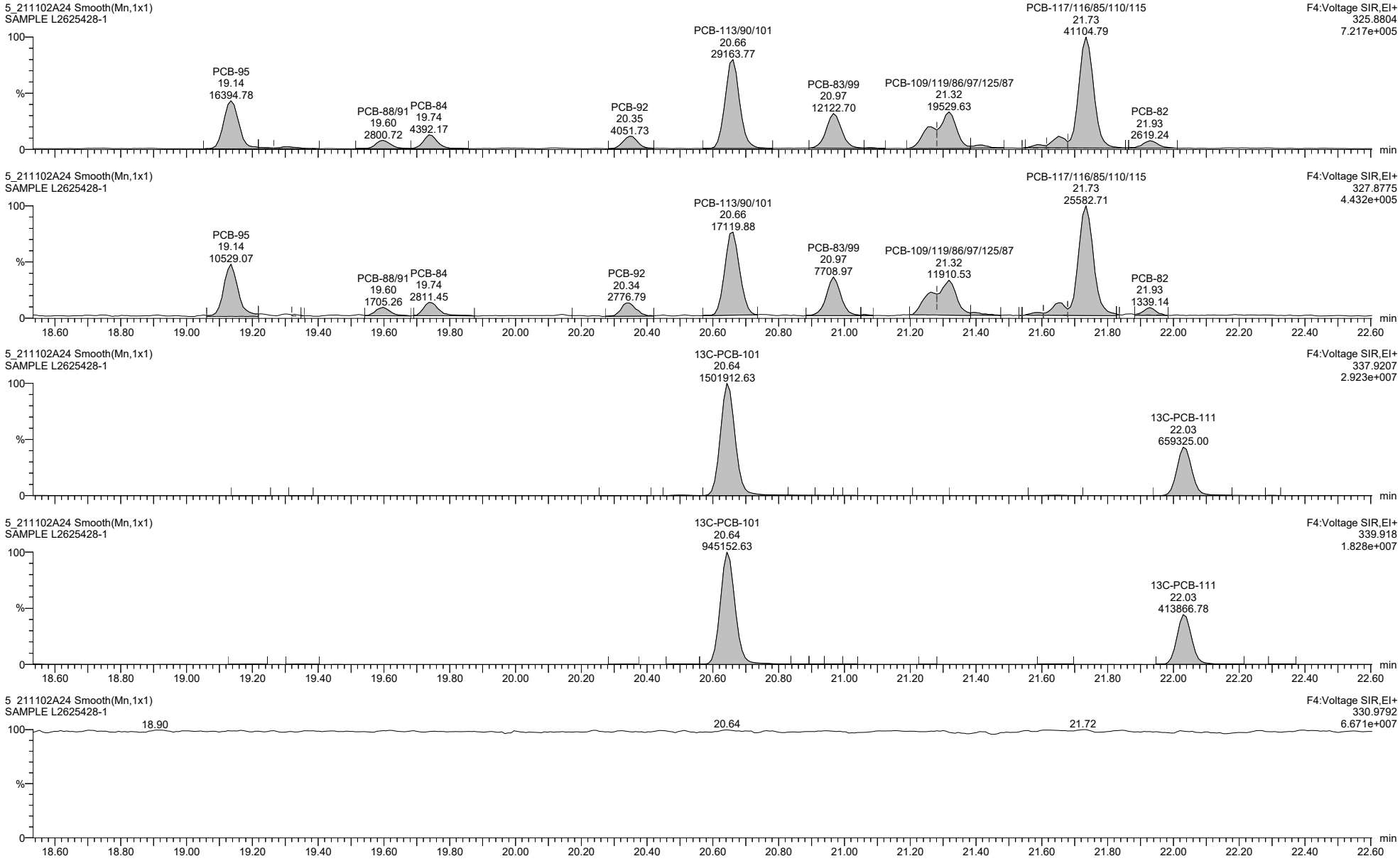

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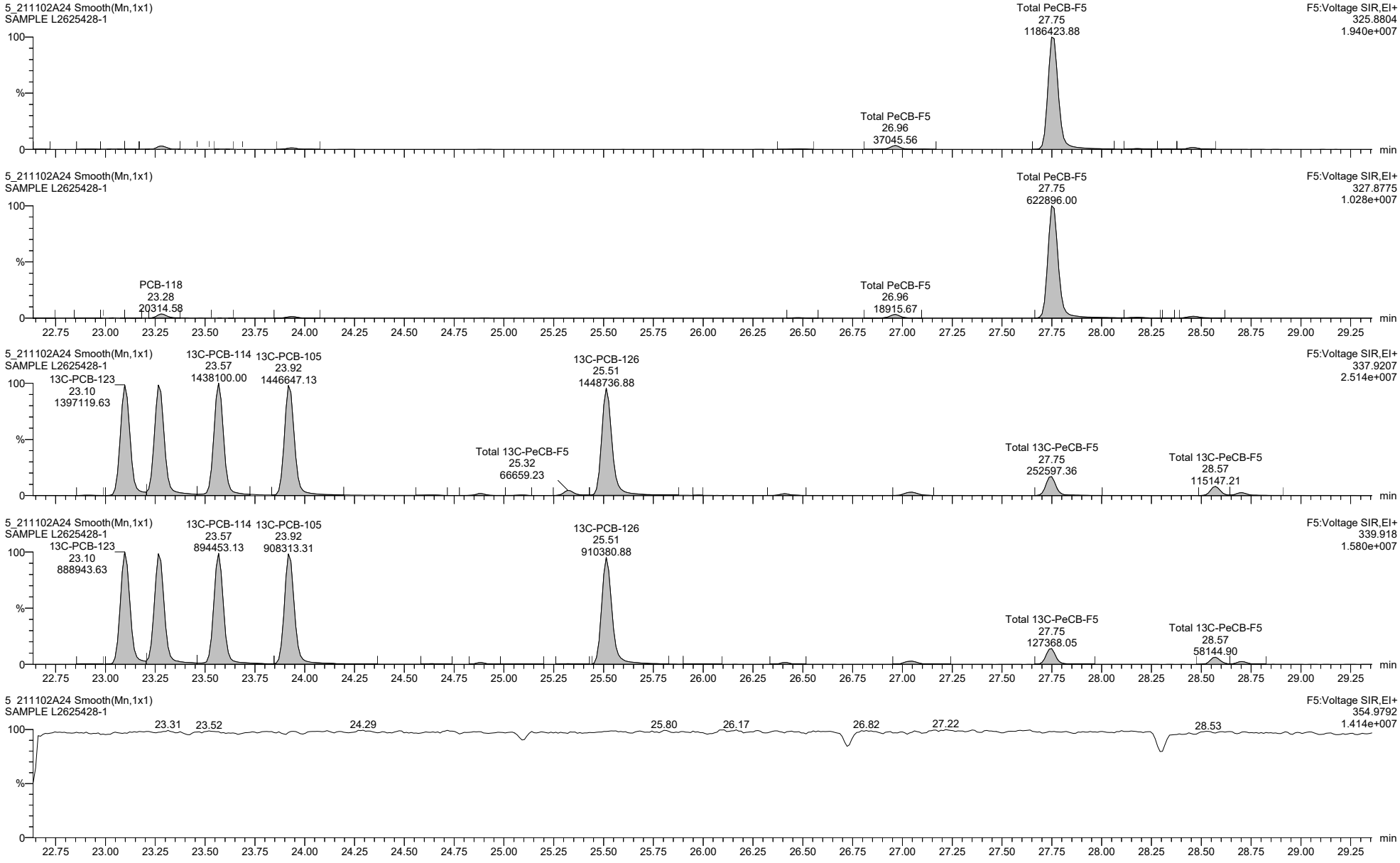

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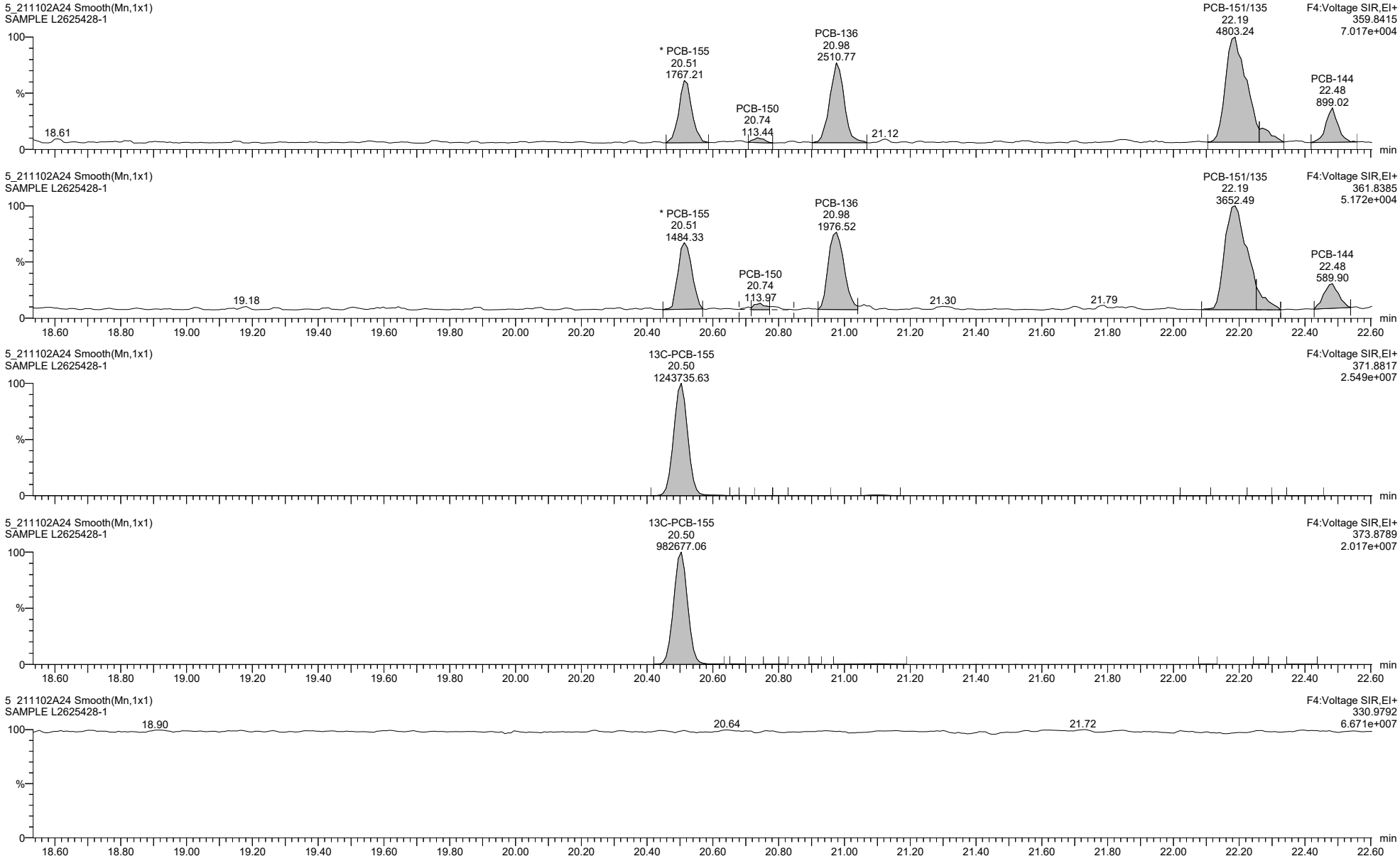

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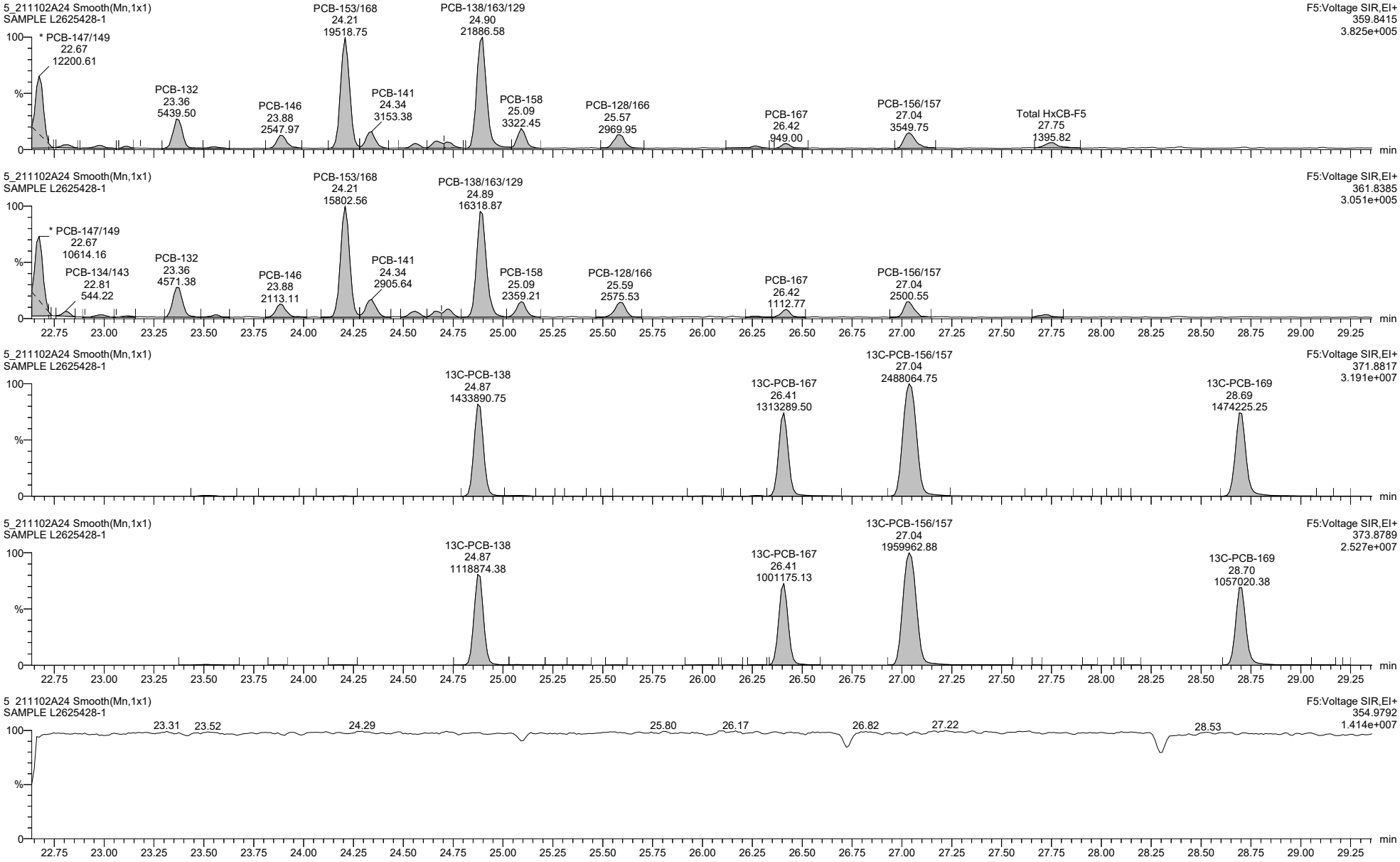

Quantify Sample Template Report **MassLynx V4.2 SCN1012**

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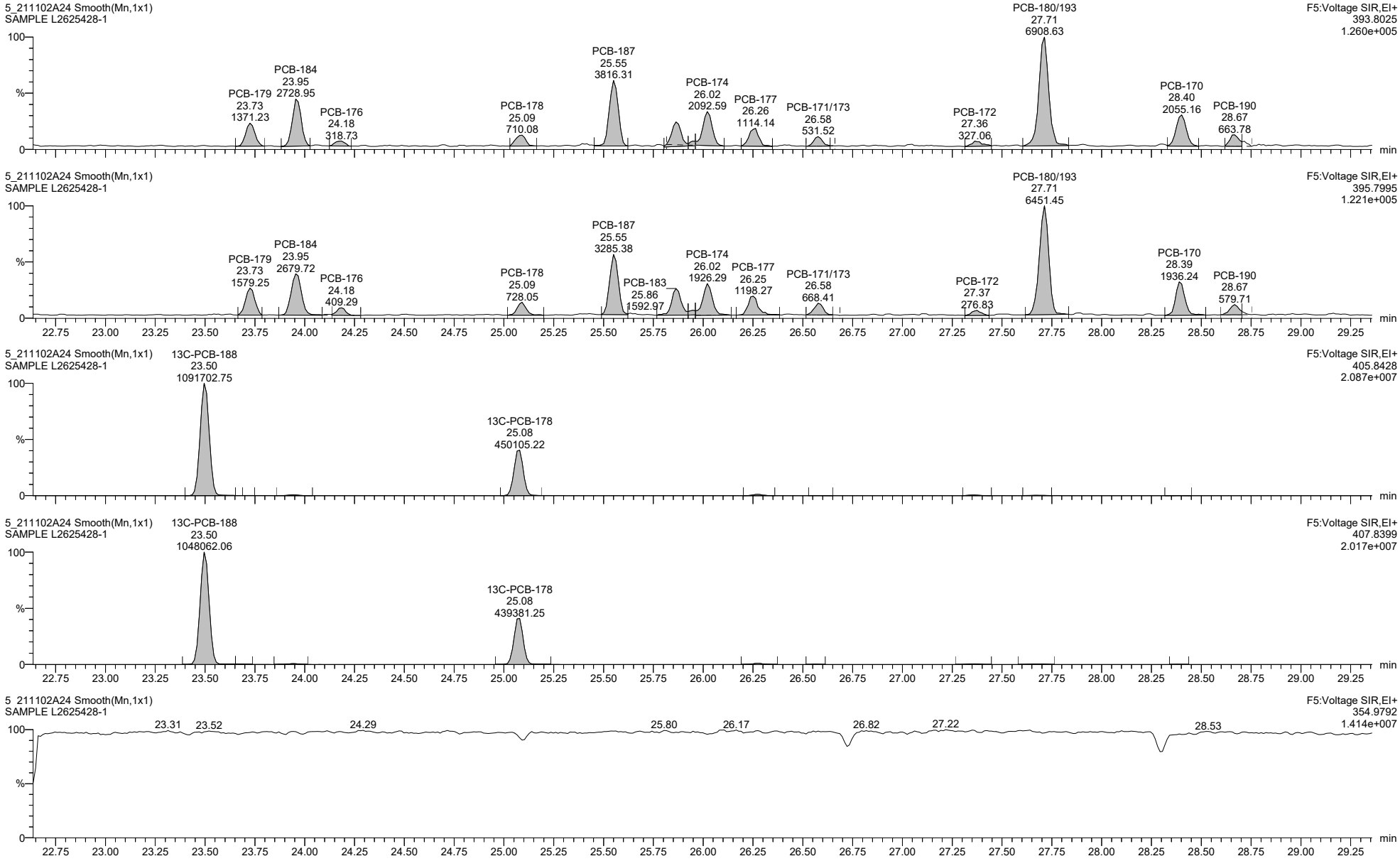

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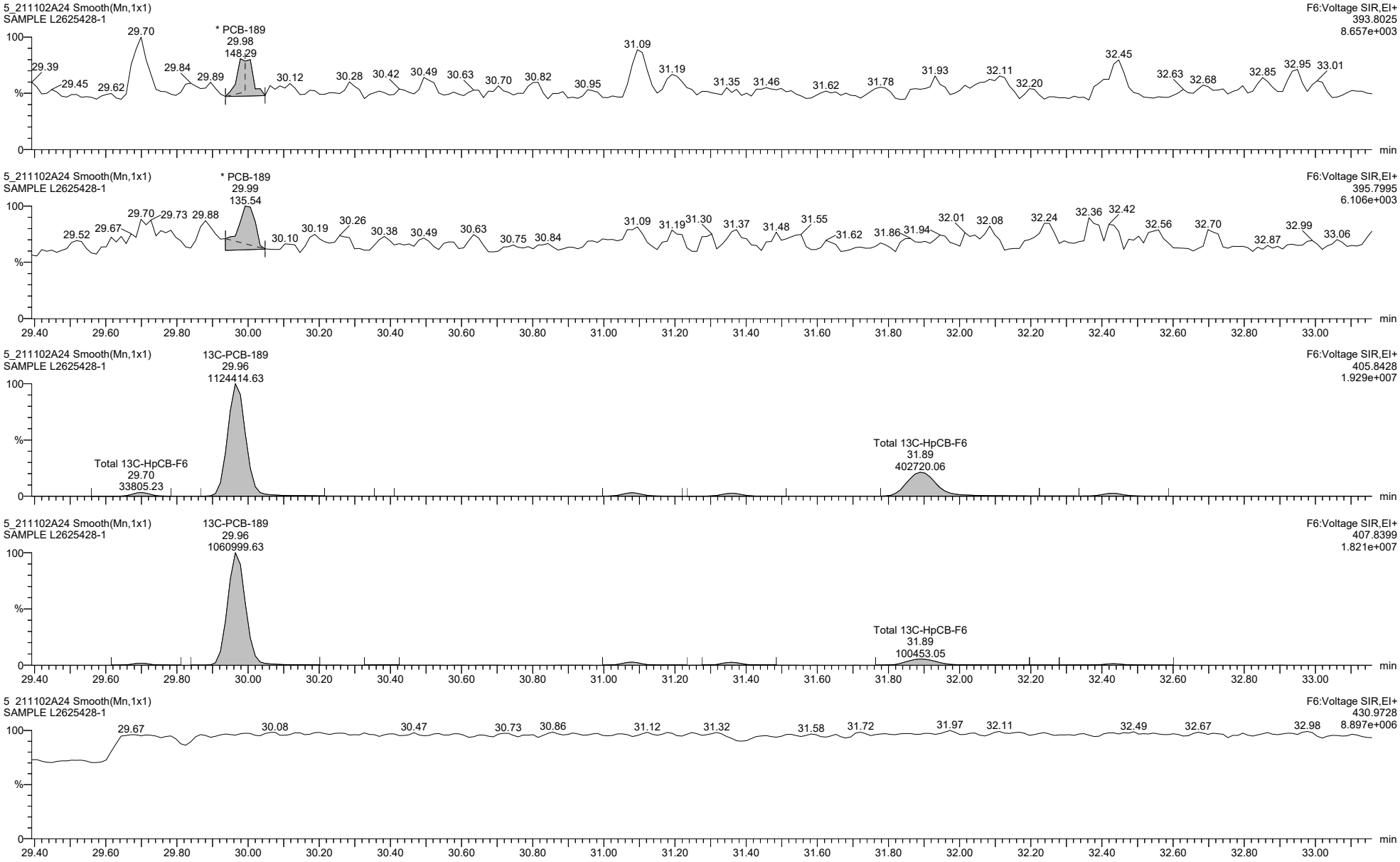

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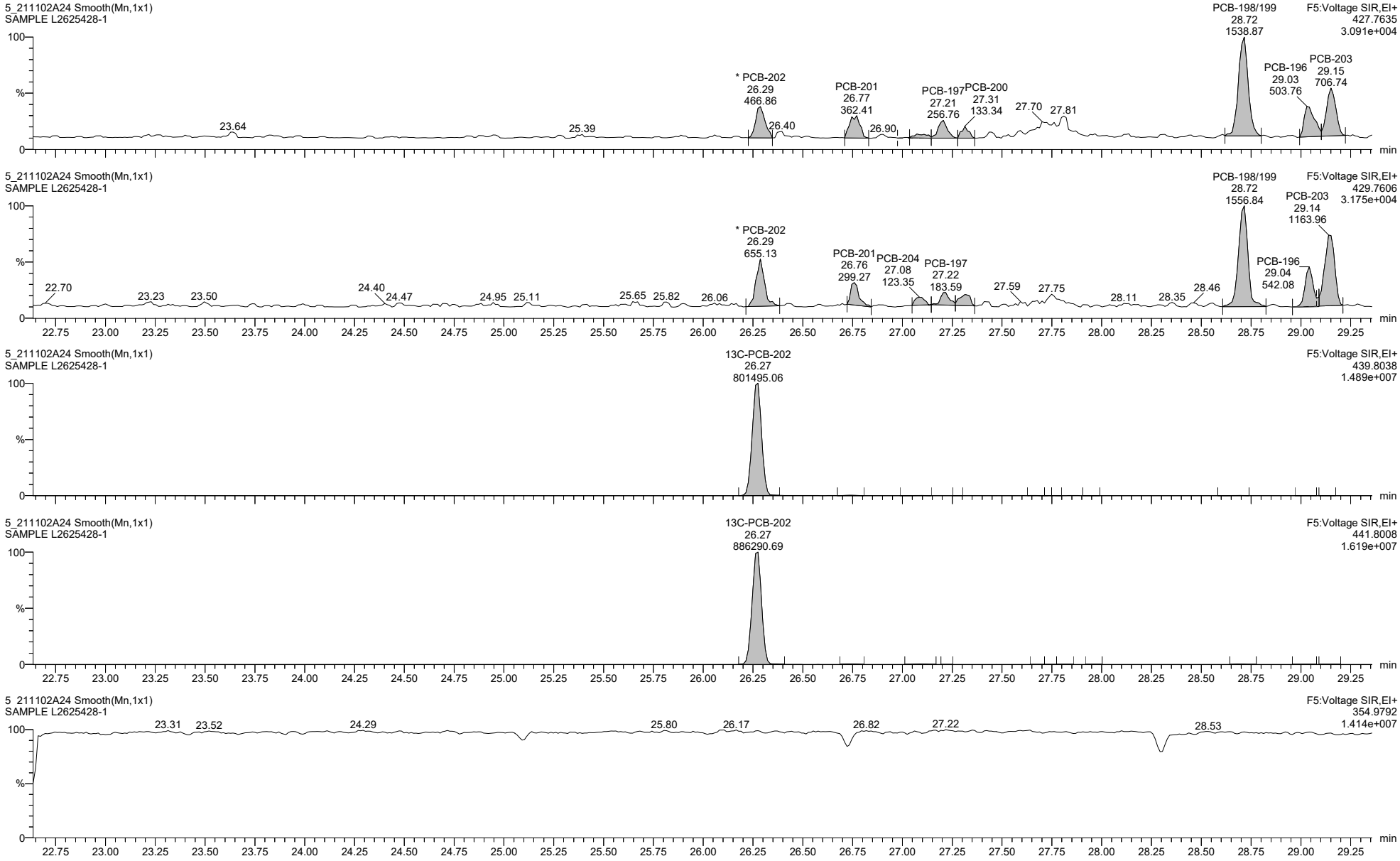

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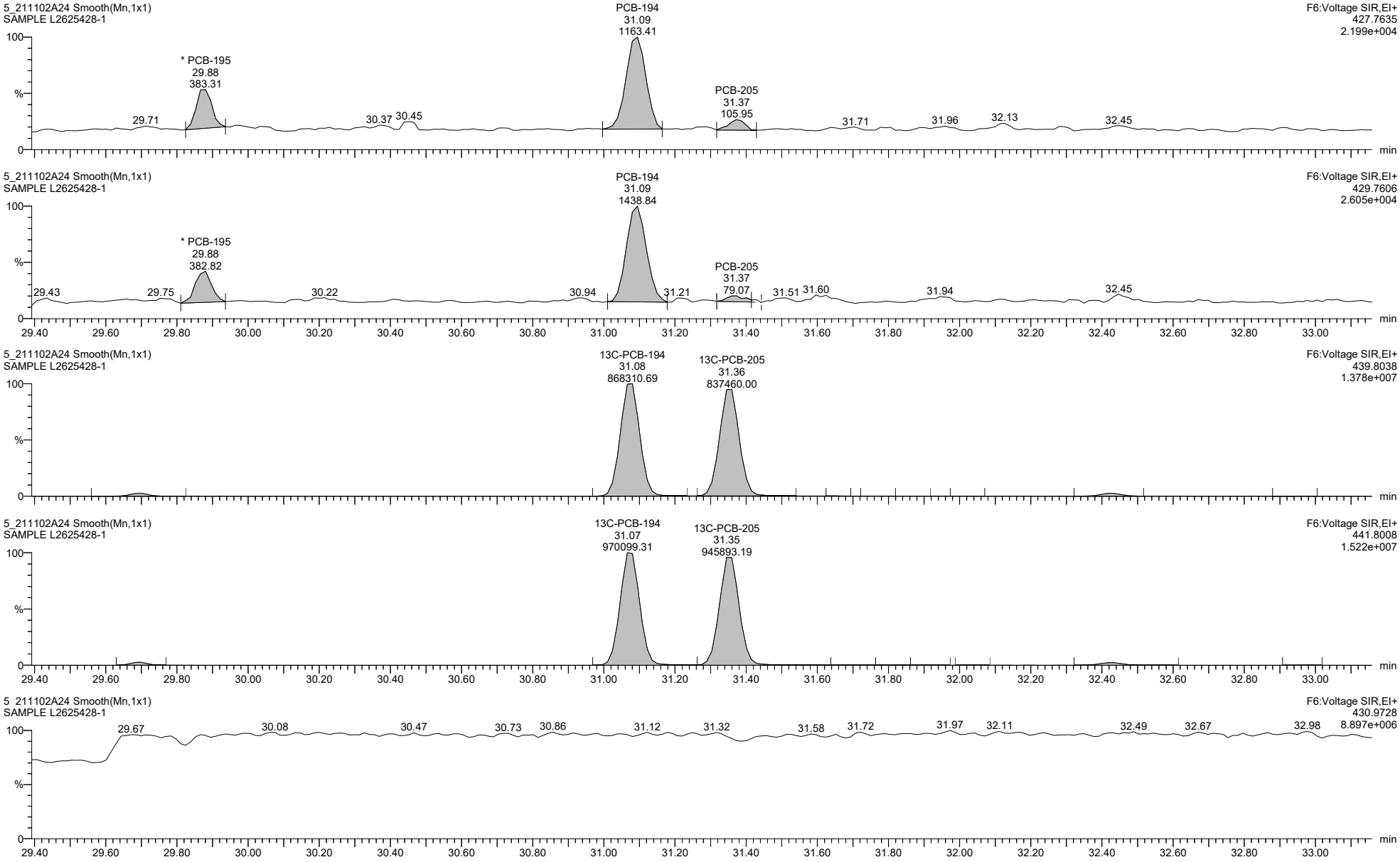

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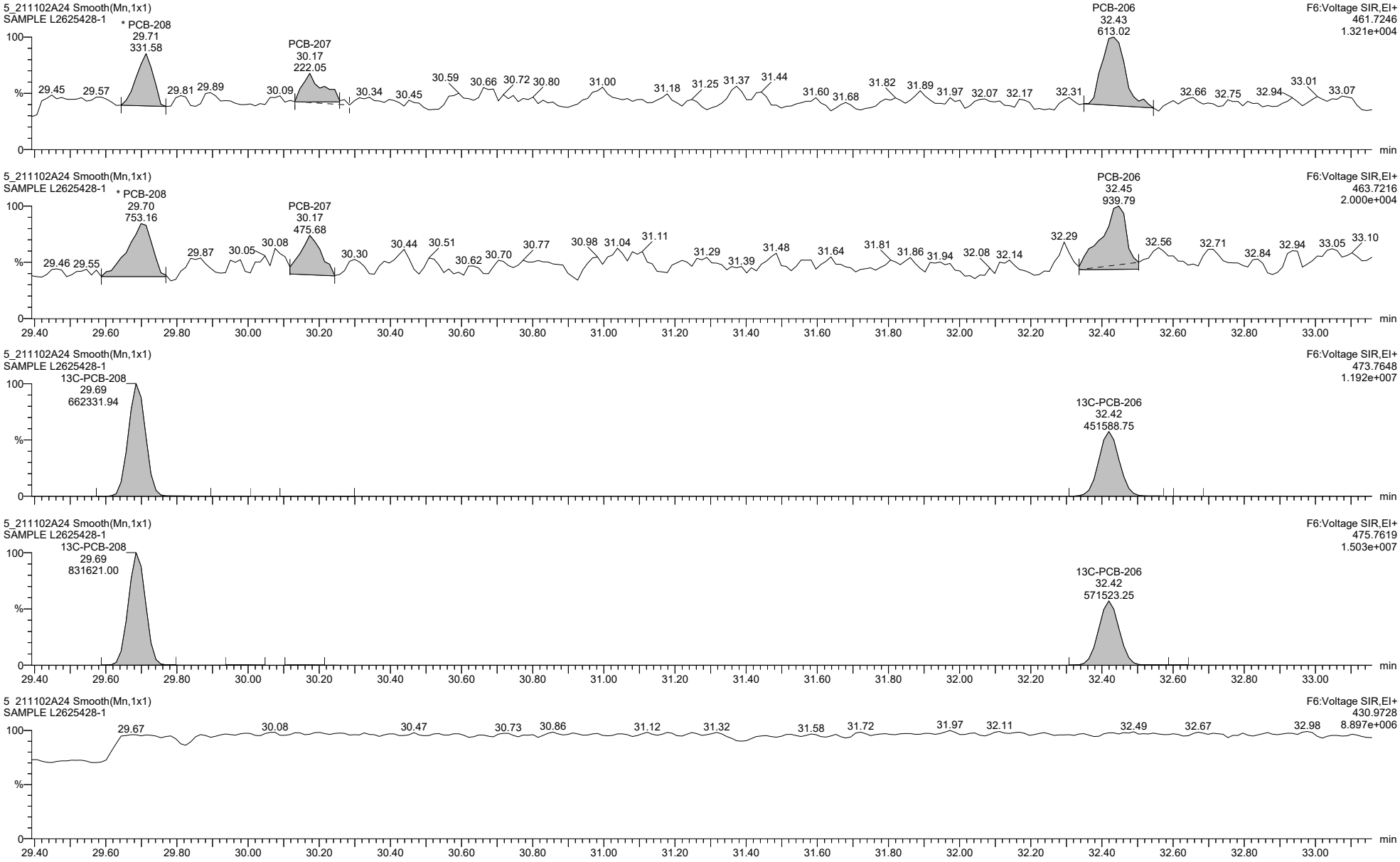

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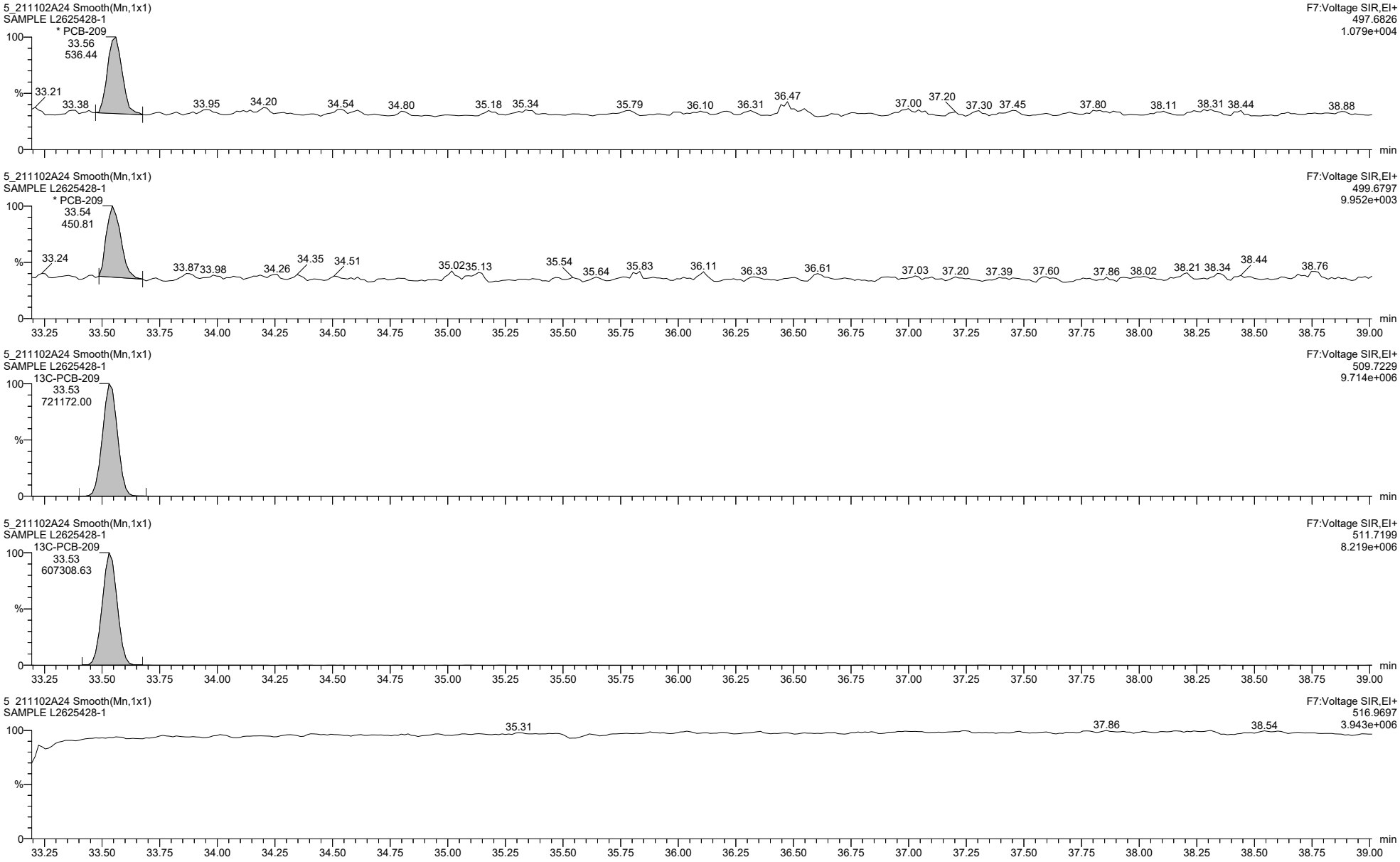

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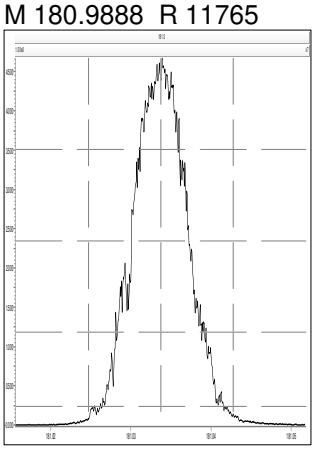

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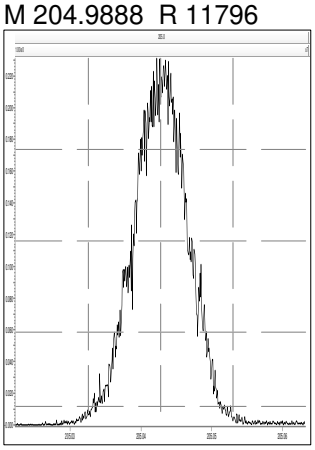

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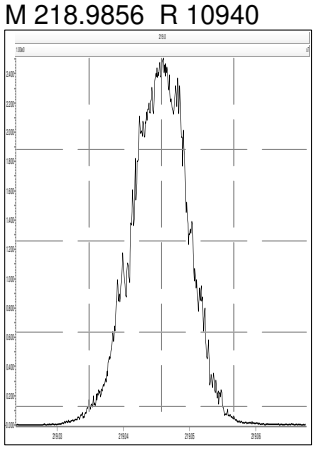

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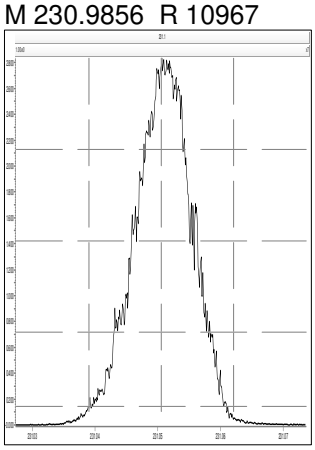

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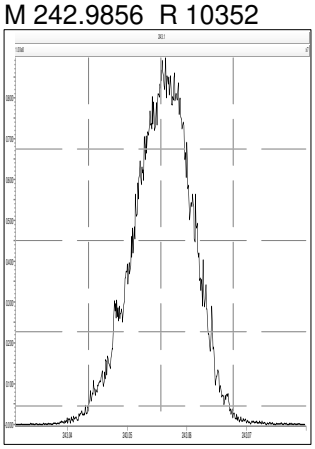

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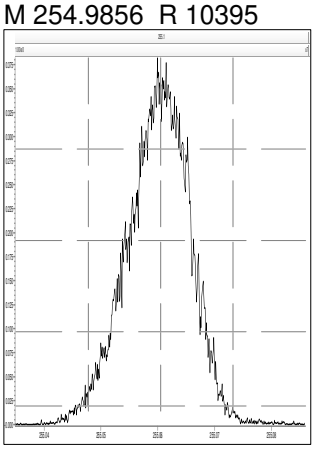

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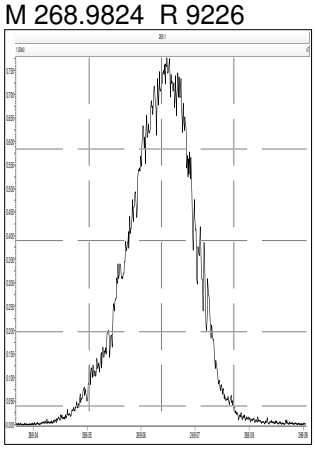
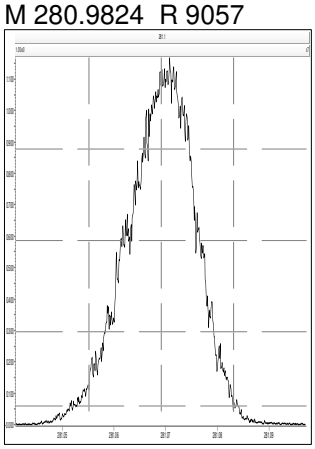
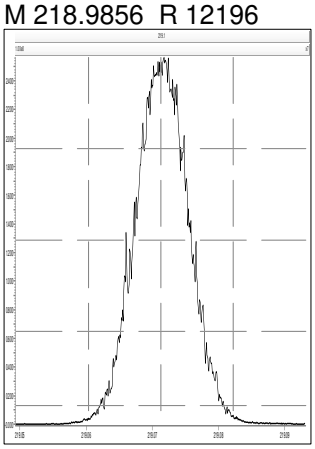


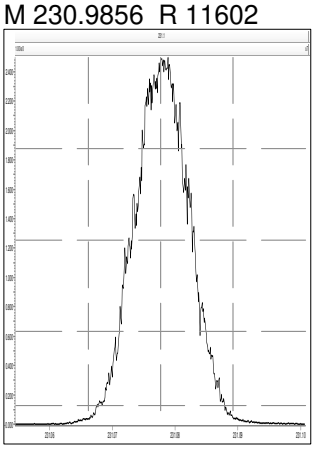
M 280.9824 R 9057



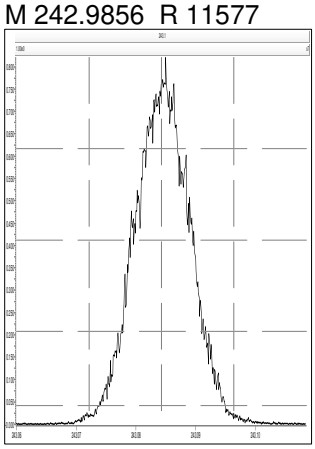
M 218.9856 R 12196



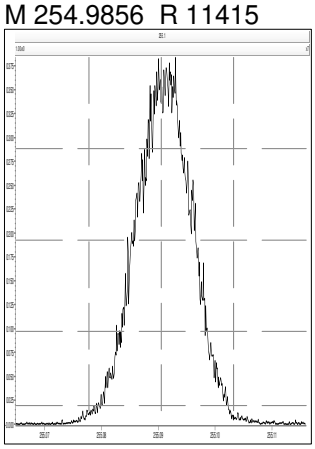
M 230.9856 R 11602



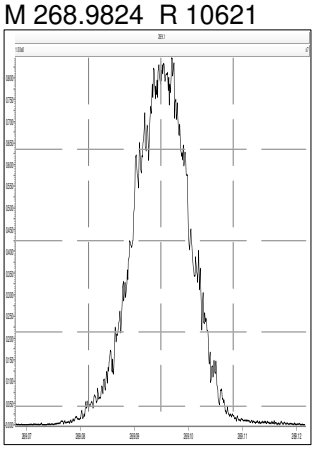
M 242.9856 R 11577



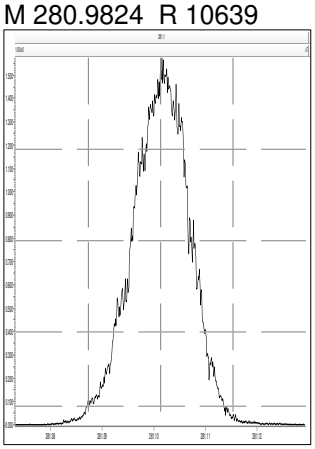
M 254.9856 R 11415



M 268.9824 R 10621



M 280.9824 R 10639



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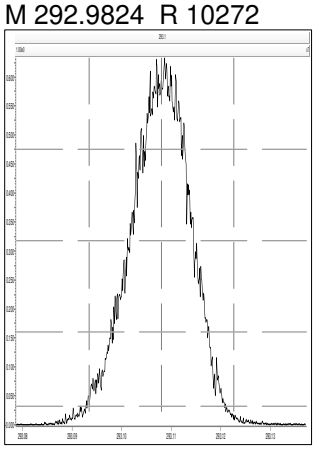
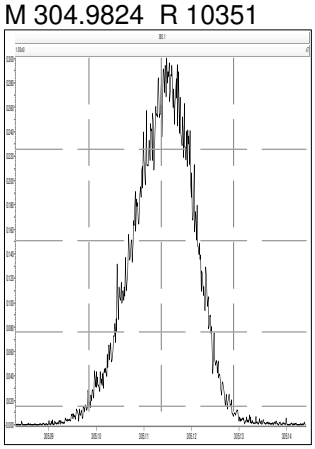
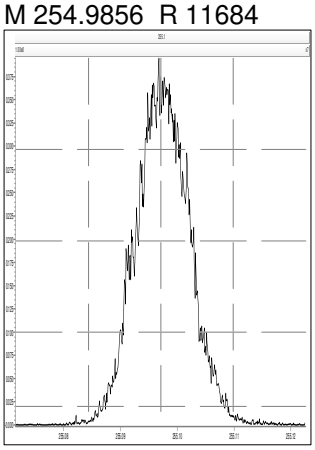


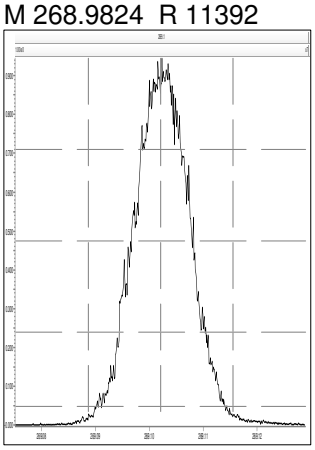
M 304.9824 R 10351



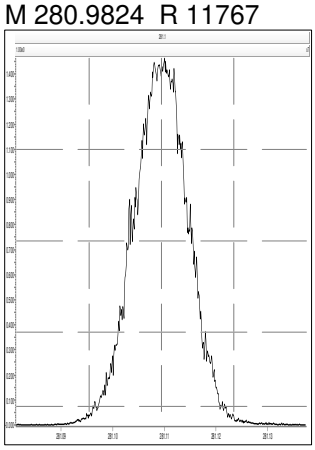
M 254.9856 R 11684



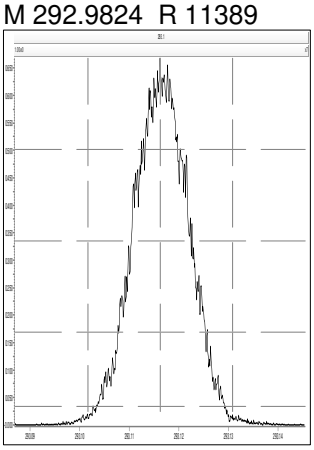
M 268.9824 R 11392



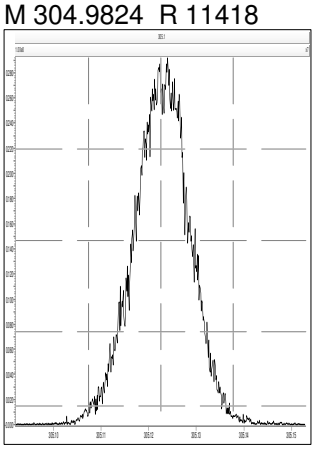
M 280.9824 R 11767



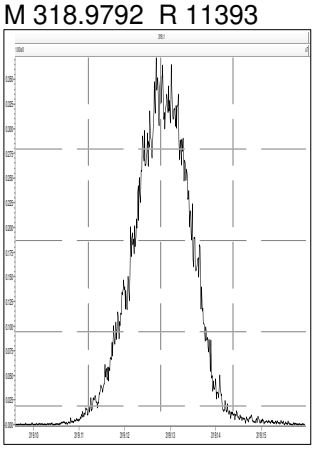
M 292.9824 R 11389



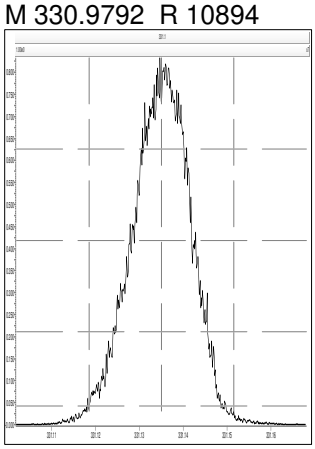
M 304.9824 R 11418



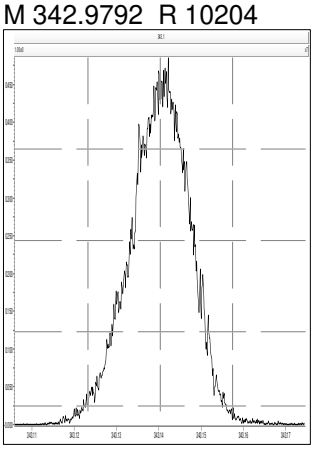
M 318.9792 R 11393



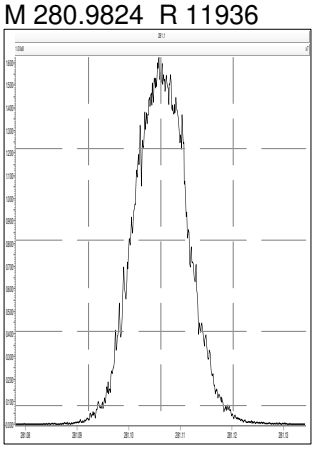
M 330.9792 R 10894



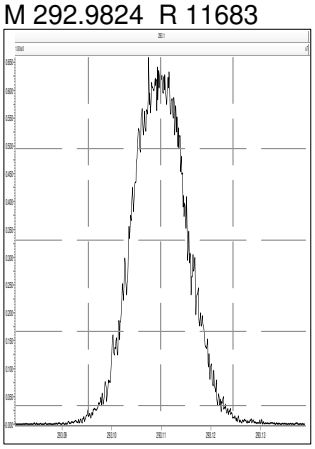
M 342.9792 R 10204



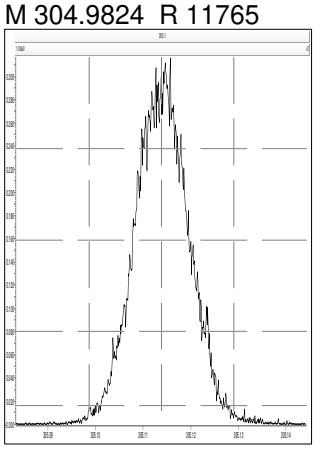
M 280.9824 R 11936



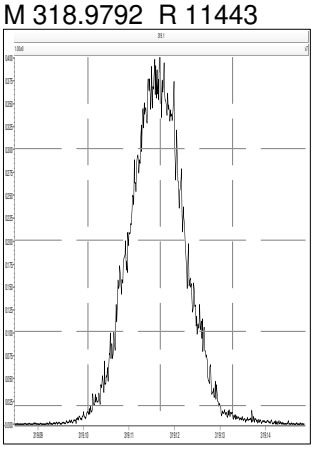
M 292.9824 R 11683



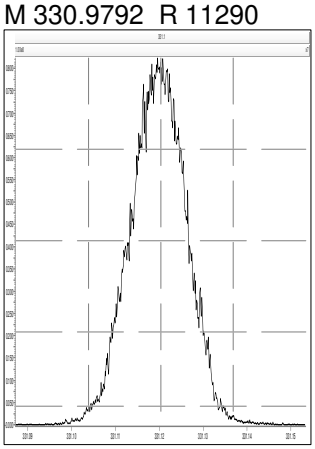
M 304.9824 R 11765



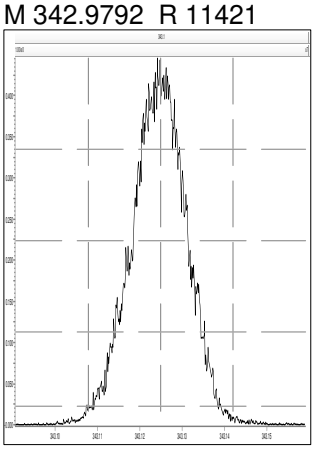
M 318.9792 R 11443



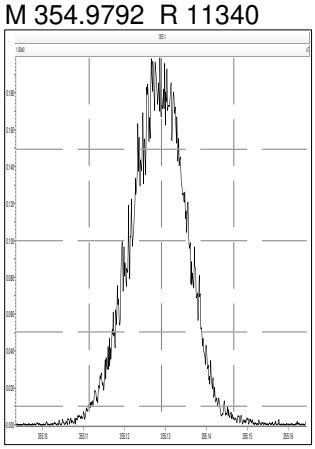
M 330.9792 R 11290



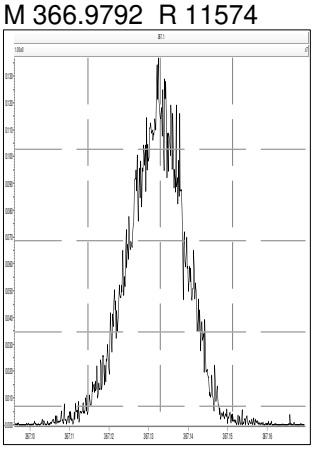
M 342.9792 R 11421



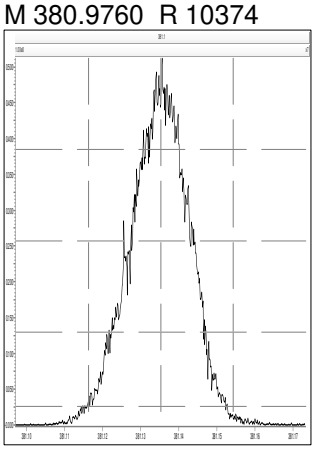
M 354.9792 R 11340



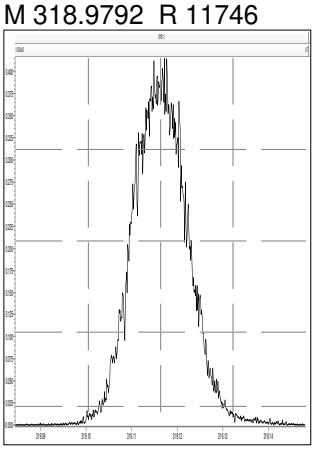
M 366.9792 R 11574



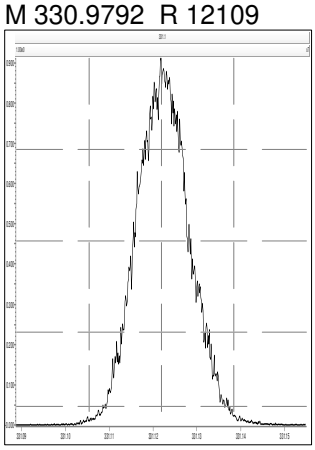
M 380.9760 R 10374



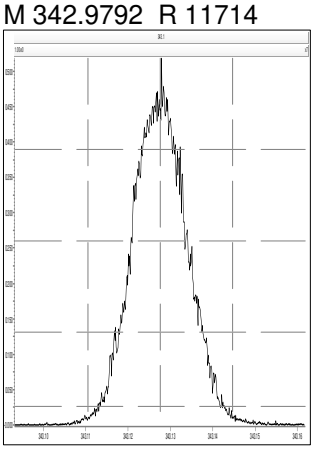
M 318.9792 R 11746



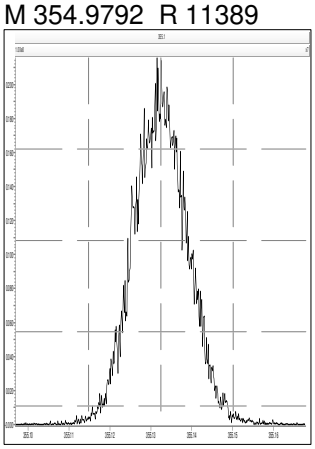
M 330.9792 R 12109



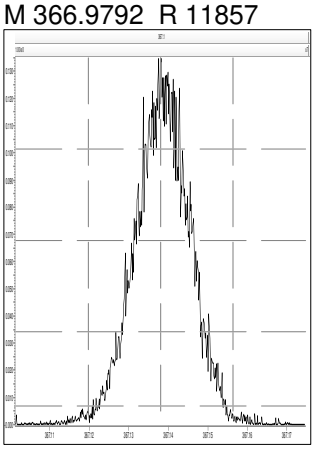
M 342.9792 R 11714



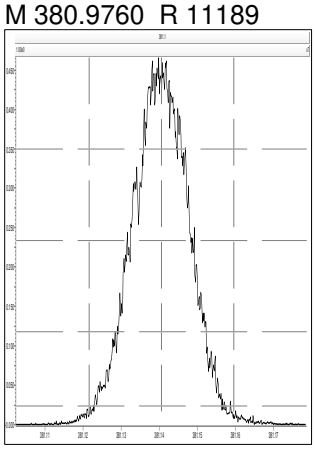
M 354.9792 R 11389



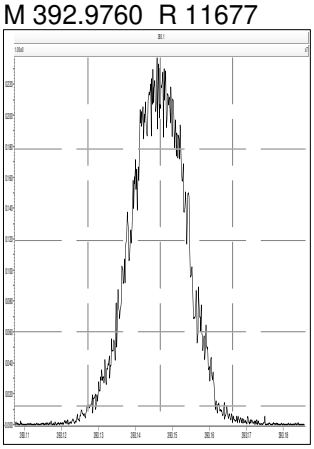
M 366.9792 R 11857



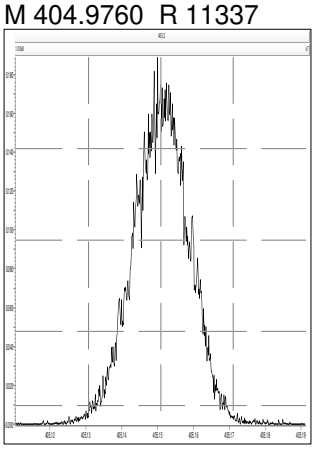
M 380.9760 R 11189



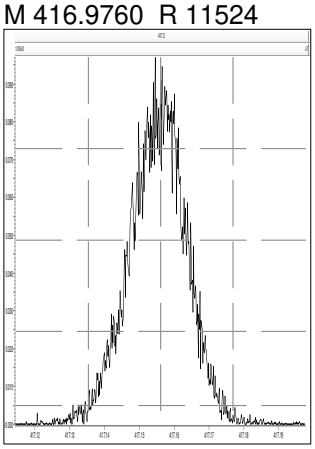
M 392.9760 R 11677



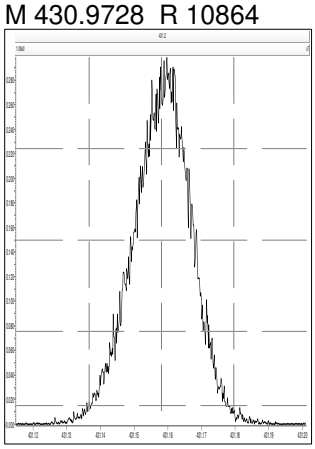
M 404.9760 R 11337



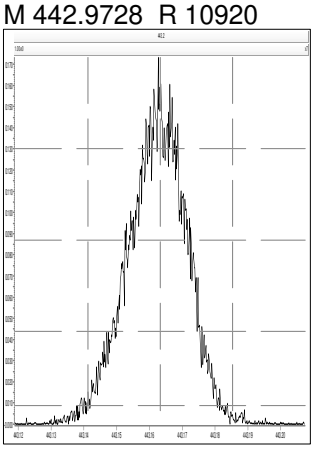
M 416.9760 R 11524



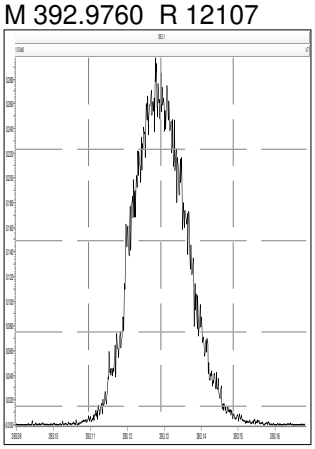
M 430.9728 R 10864



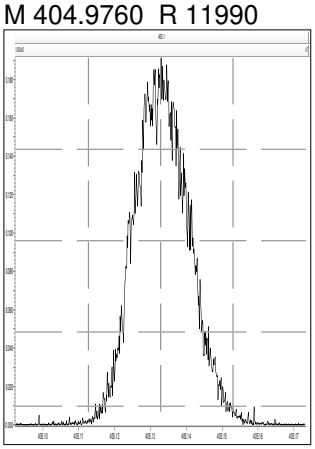
M 442.9728 R 10920



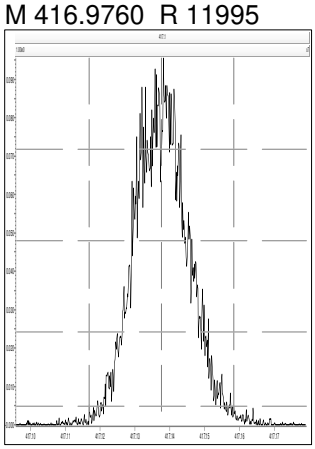
M 392.9760 R 12107



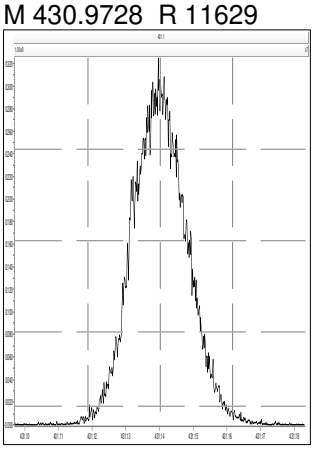
M 404.9760 R 11990



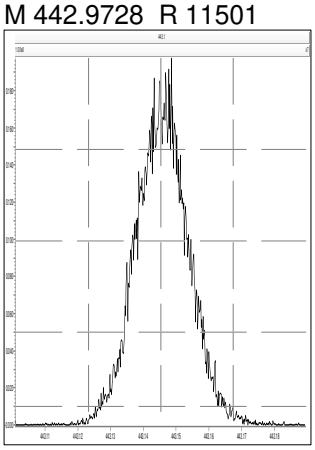
M 416.9760 R 11995



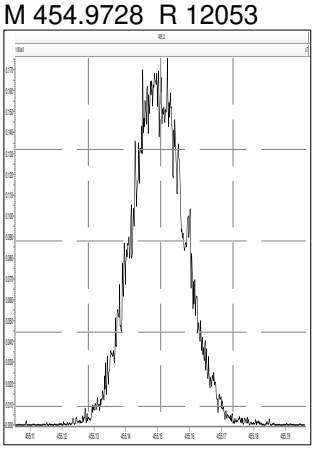
M 430.9728 R 11629



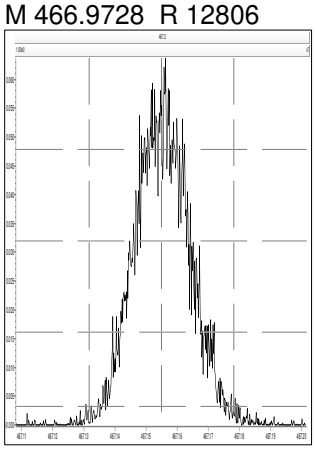
M 442.9728 R 11501



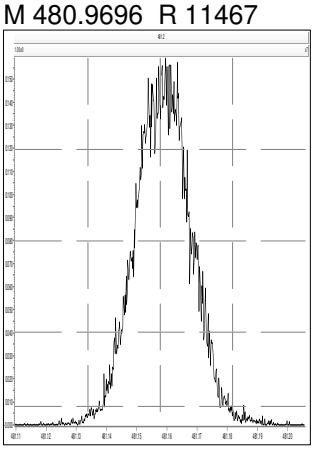
M 454.9728 R 12053



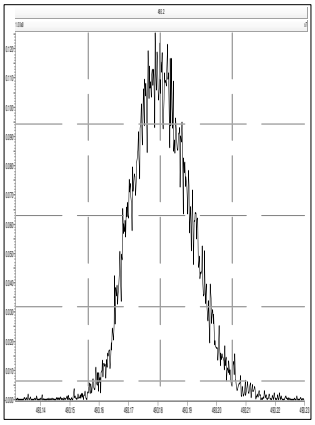
M 466.9728 R 12806



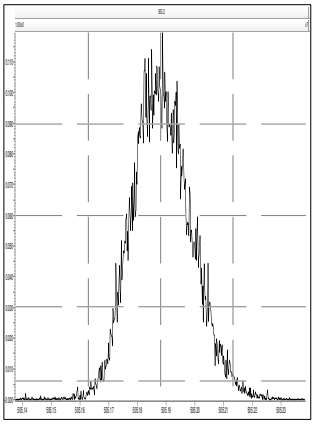
M 480.9696 R 11467



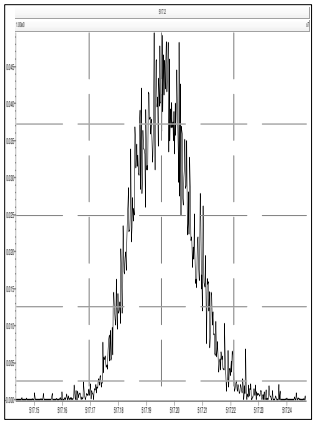
M 492.9696 R 11086



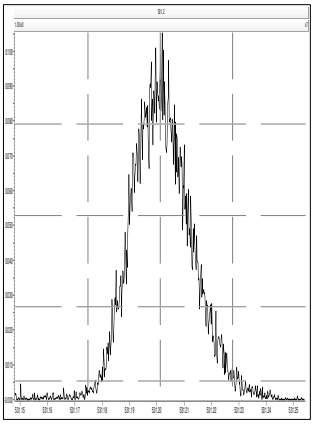
M 504.9696 R 10807



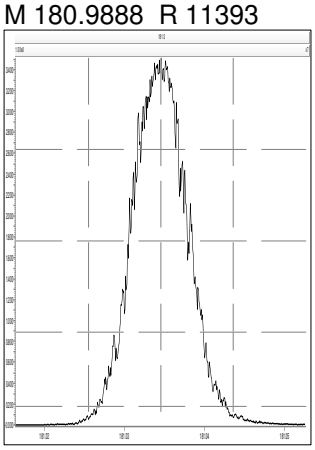
M 516.9697 R 11823



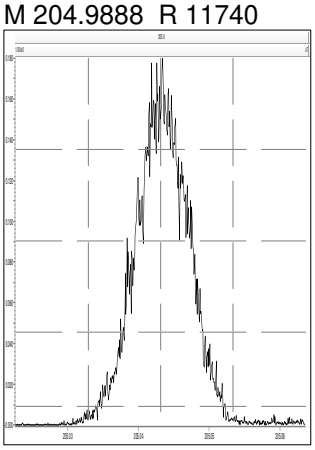
M 530.9664 R 10879



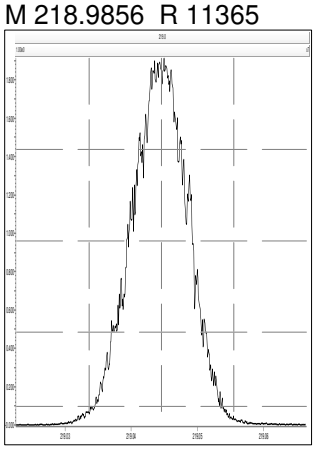
M 180.9888 R 11393



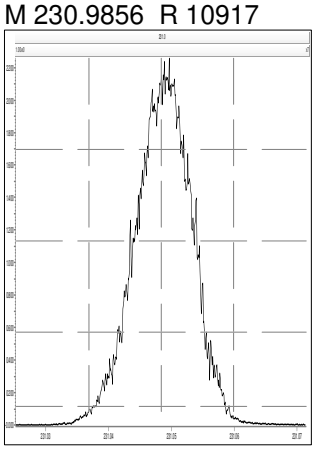
M 204.9888 R 11740



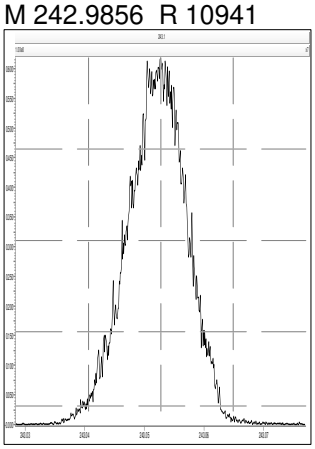
M 218.9856 R 11365



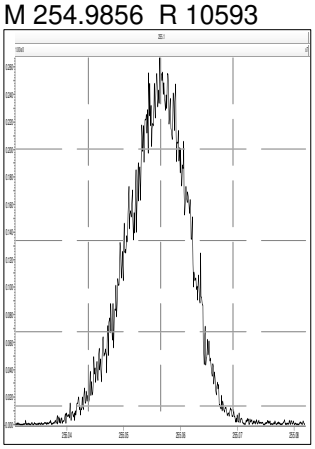
M 230.9856 R 10917



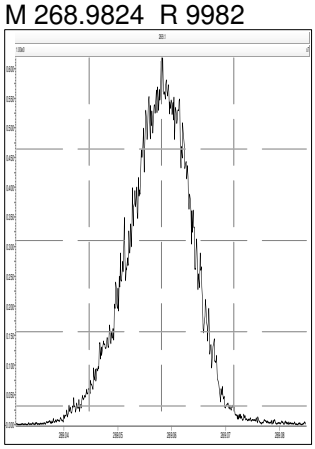
M 242.9856 R 10941



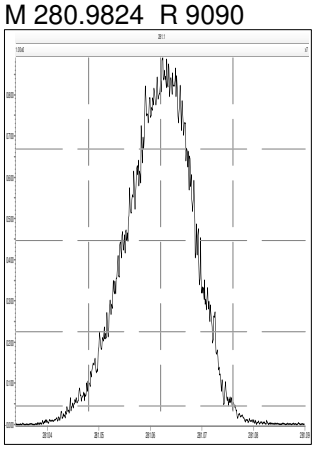
M 254.9856 R 10593



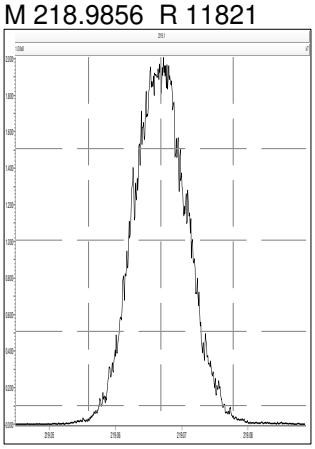
M 268.9824 R 9982



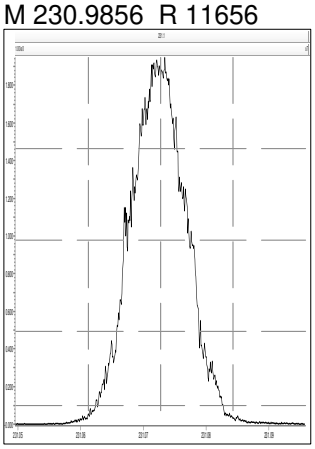
M 280.9824 R 9090



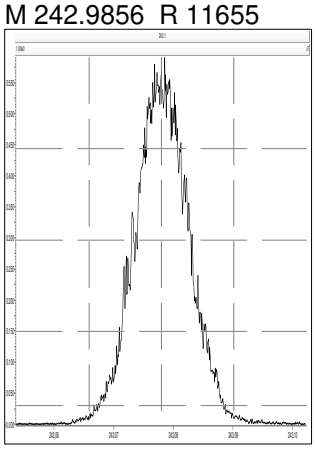
M 218.9856 R 11821



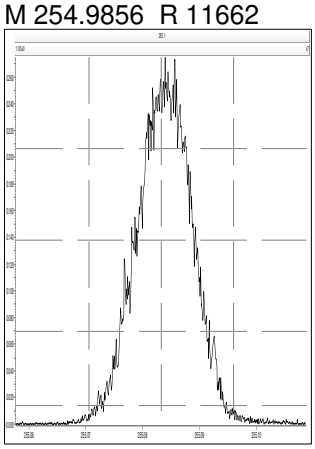
M 230.9856 R 11656



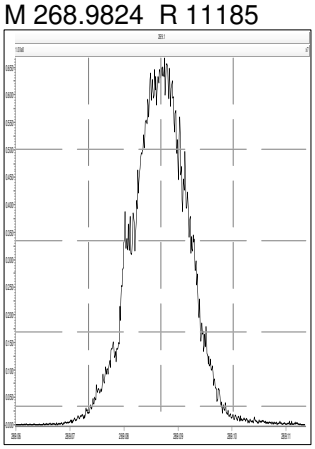
M 242.9856 R 11655



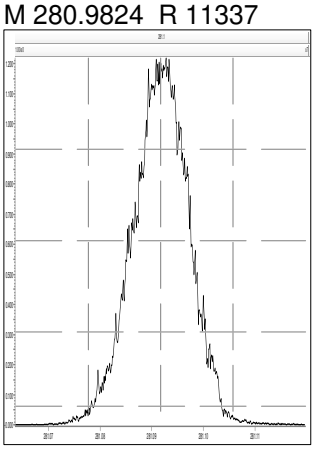
M 254.9856 R 11662



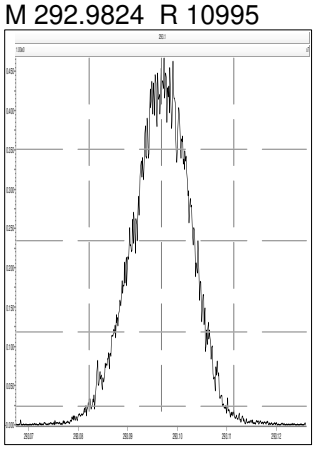
M 268.9824 R 11185



M 280.9824 R 11337



M 292.9824 R 10995



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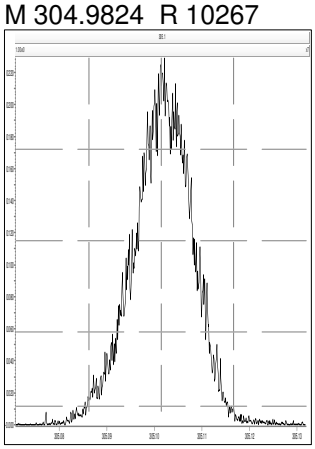

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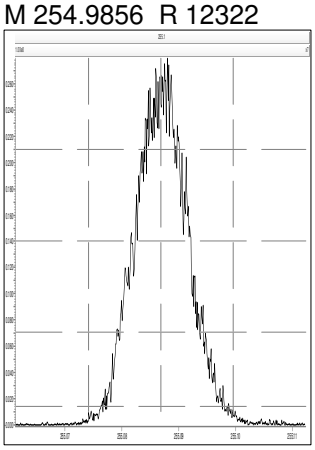

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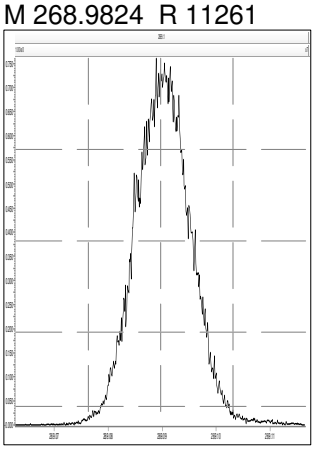

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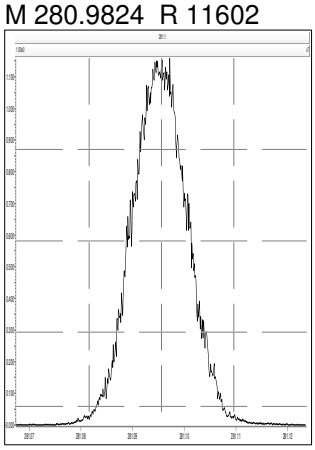
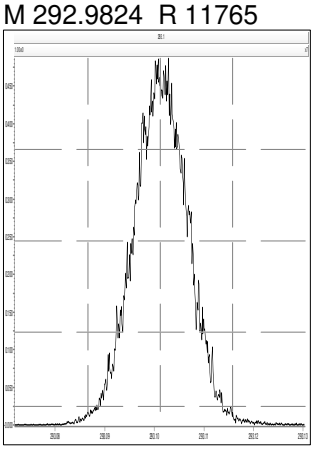


M 292.9824 R 11765



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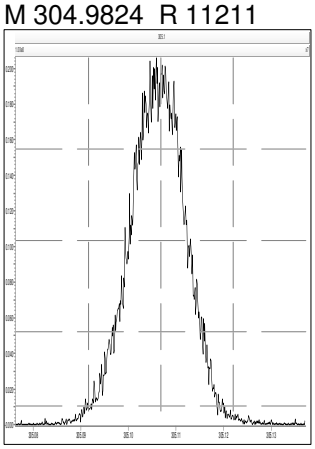

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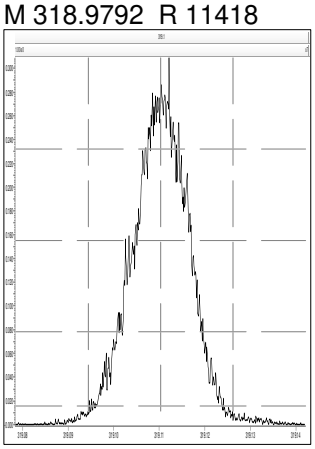

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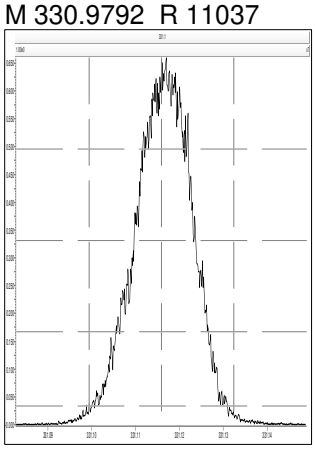

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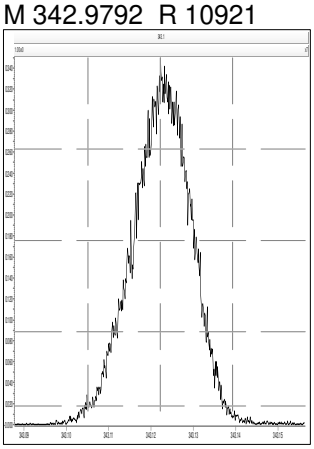

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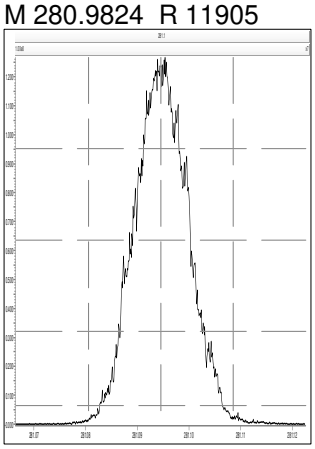

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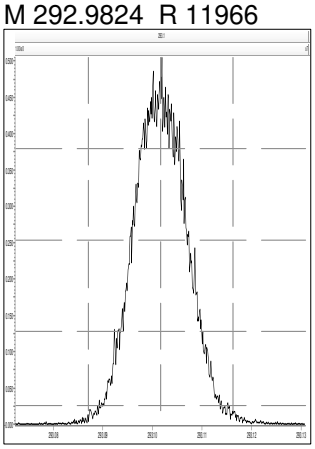

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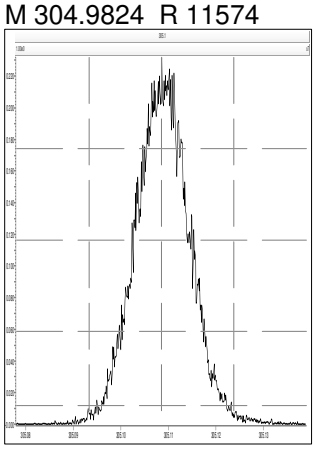

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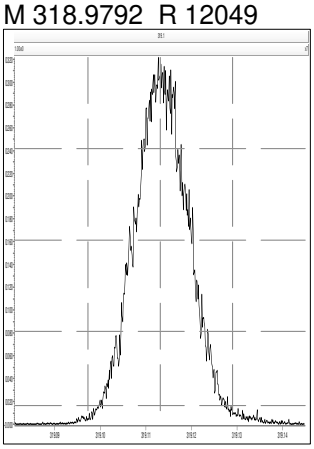

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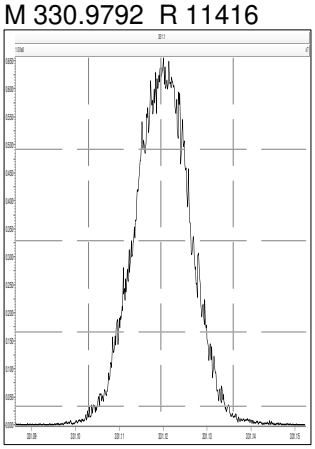

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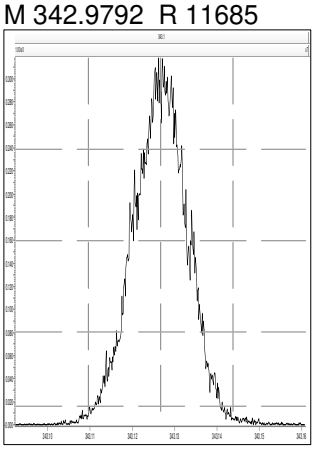

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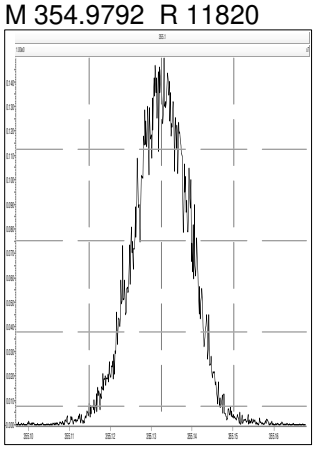

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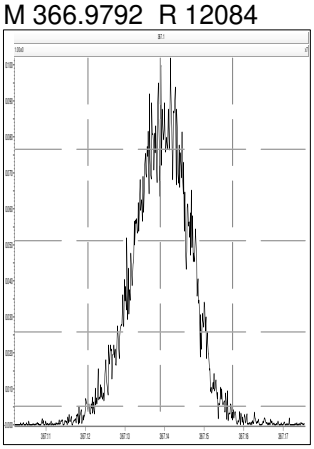

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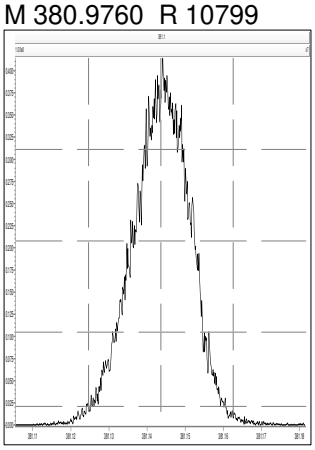

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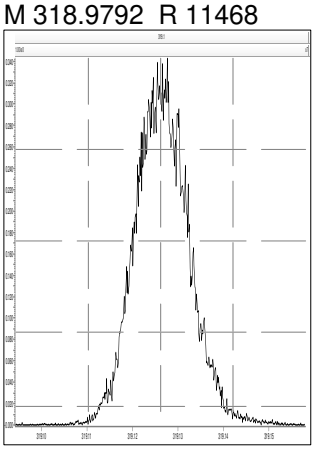
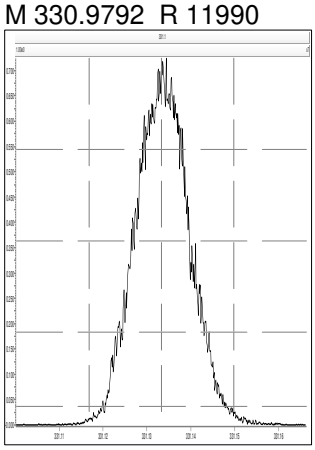


M 330.9792 R 11990



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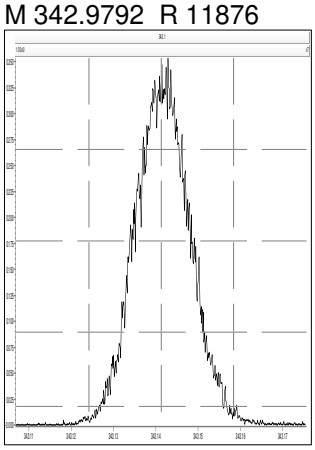

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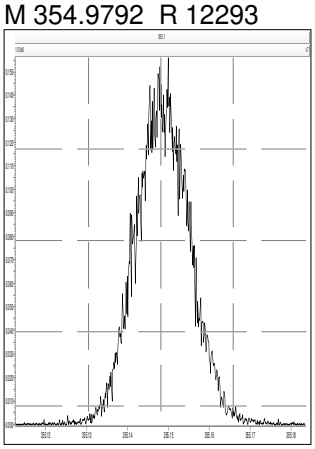
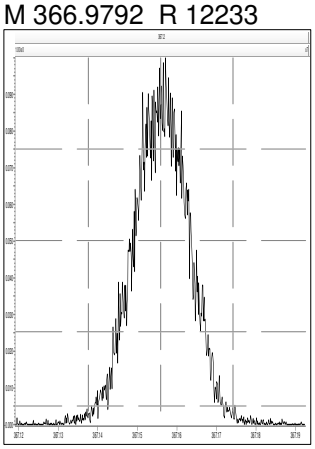


M 366.9792 R 12233



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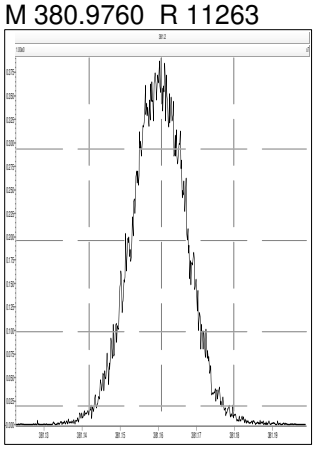
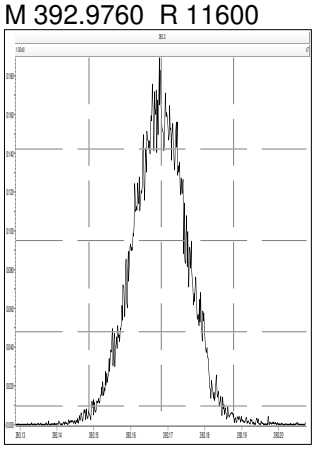
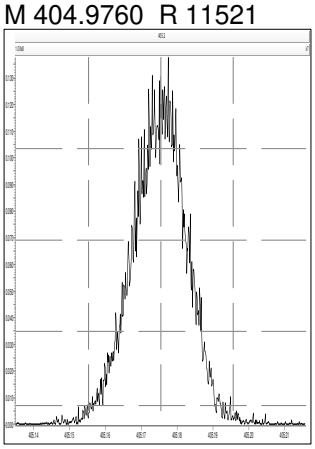


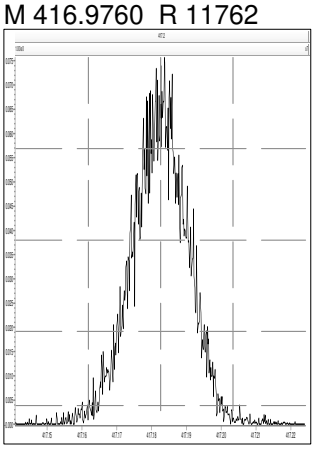
M 392.9760 R 11600



M 404.9760 R 11521



M 416.9760 R 11762



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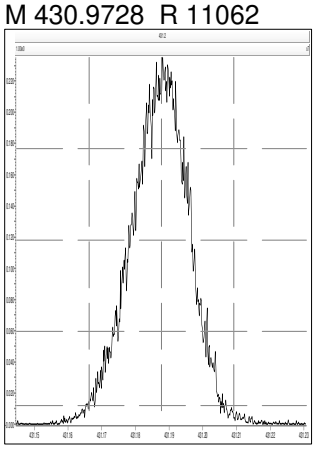

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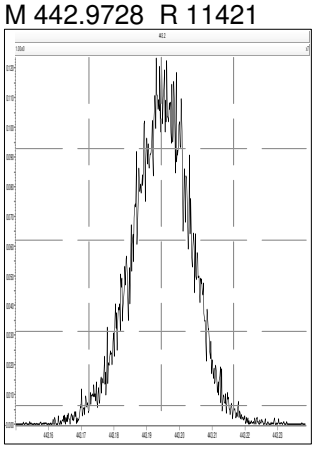

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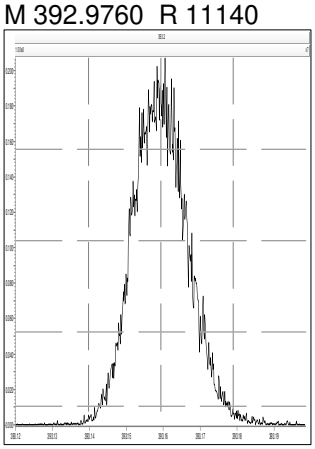

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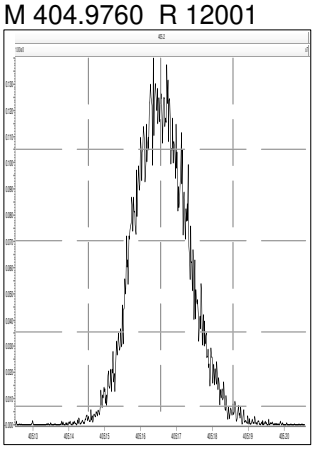

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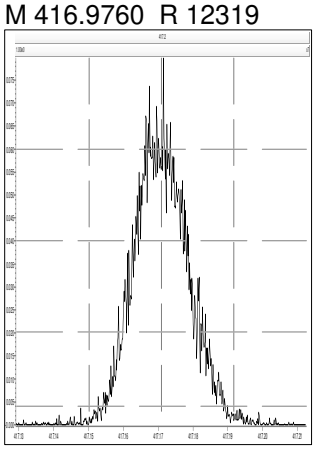

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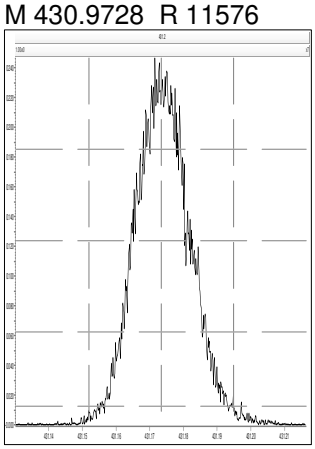

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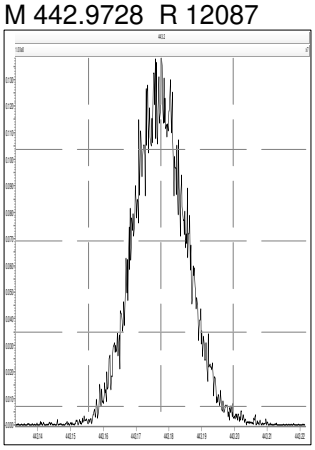

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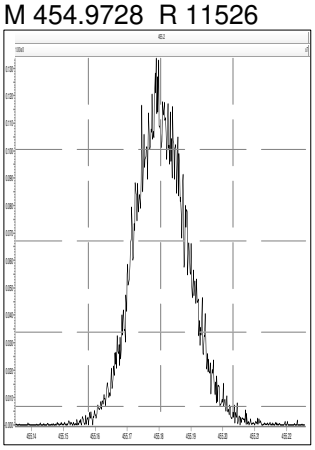

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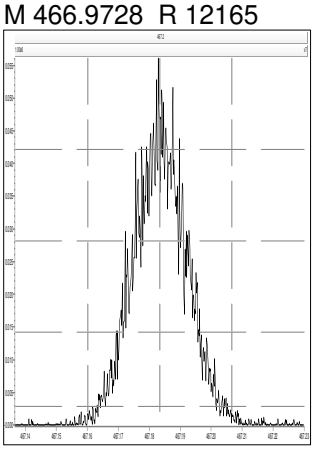

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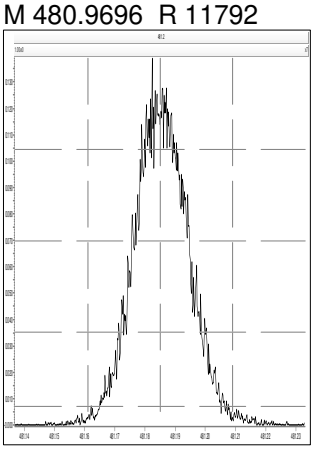
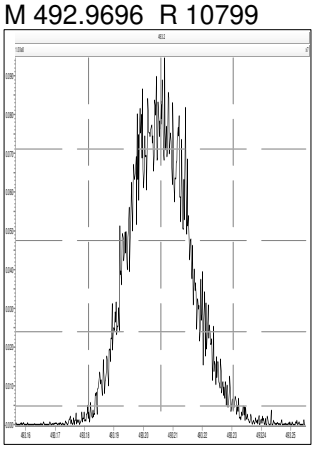


M 492.9696 R 10799



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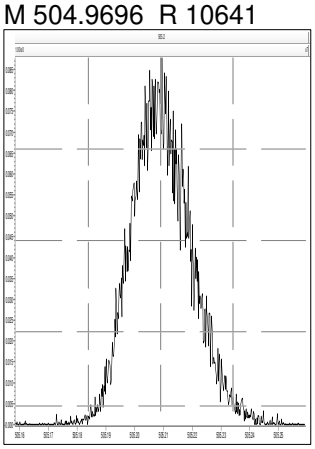

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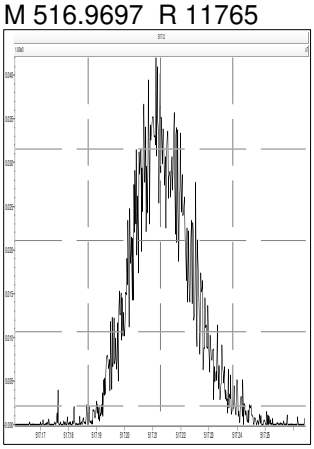

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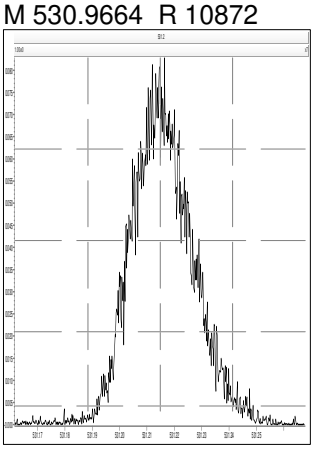

1435 Norjohn Court, Unit 1, Burlington, ON, Canada L7L 0E6

SVOC DATA PACKAGE

APPENDIX 1: INSTRUMENT OUTPUT DOCUMENTS

Including For Each Analytical Sequence::

- The scanned instrument runlogs

- Instrument output (SICP chromatograms) indicating the integrations used for quantification including:
  - GC chromatographic resolution checks, where appropriate
  - SICPs for the run
  - SICP chromatograms indicating both the automated and manual peak integrati where this has been edited

- Reference peak profiles indicating the mass resolution
  - Pre-run mass calibration check printouts
  - Post-run mass calibration check printouts

	File Name	Sample ID	File Text	MS File	Inlet File	Bottle	Inject Vol	
1	5-201202A01	H5-20-CS3-1035	1668A-CS3-020	1668_octyl_1	1668_octyl_1	Tray1:1	1.000000	
2	5-201202A02	H5-20-CS2-1035	1668A-CS2-020	1668_octyl_1	1668_octyl_1	Tray1:4	1.000000	
3	5-201202A03	H5-20-CS1-1035	1668A-CS1-020	1668_octyl_1	1668_octyl_1	Tray1:5	1.000000	
4	5-201202A04	H5-20-CS0-1035	1668A-CS0-020	1668_octyl_1	1668_octyl_1	Tray1:6	1.000000	
5	5-201202A07	H5-20-CS4-1035	1668A-CS4-020	1668_octyl_1	1668_octyl_1	Tray1:7	1.000000	
6	5-201202A08	H5-20-CS5-1035	1668A-CS5-020	1668_octyl_1	1668_octyl_1	Tray1:8	1.000000	
7	5-201202A09	H5-20-RS1-1035	1668A-RS1-020	1668_octyl_1	1668_octyl_1	Tray1:9	1.000000	
8	5-201202A10	H5-20-RS2-1035	1668A-RS2-020	1668_octyl_1	1668_octyl_1	Tray1:10	1.000000	
9	5-201202A12	H5-20-WDM-1036	1668A-CS7-020	1668_octyl_1	1668_octyl_1	Tray1:2	1.000000	
10	5-201202A13	H5-20-CCV-1037	1668A-CS3-020	1668_octyl_1	1668_octyl_1	Tray1:1	1.000000	
11	5-201202A14	WG3443337-2	LCS	1668_octyl_1	1668_octyl_1	Tray1:7	1.000000	
12	5-201202A15	TOLUENE	INST BLANK	1668_octyl_1	1668_octyl_1	Tray1:3	1.000000	
13	5-201202A16	WG3443337-1	MB	1668_octyl_1	1668_octyl_1	Tray1:8	1.000000	
14	5-201202A17	L2524245-1	Sample	1668_octyl_1	1668_octyl_1	Tray1:9	1.000000	
15	5-201202A18	L2528378-1	Sample	1668_octyl_1	1668_octyl_1	Tray1:10	1.000000	
16	5-201202A19	L2528378-2	Sample	1668_octyl_1	1668_octyl_1	Tray1:11	1.000000	A1
17	5-201202A20	L2528378-3	Sample	1668_octyl_1	1668_octyl_1	Tray1:12	1.000000	
18	5-201202A21	L2528378-4	Sample	1668_octyl_1	1668_octyl_1	Tray1:13	1.000000	
19	5-201202A22	L2528378-5	Sample	1668_octyl_1	1668_octyl_1	Tray1:14	1.000000	
20	5-201202A23	L2528378-6	Sample	1668_octyl_1	1668_octyl_1	Tray1:15	1.000000	
21	5-201202A24	L2525447-1	Sample RW	1668_octyl_1	1668_octyl_1	Tray1:4	1.000000	
22	5-201202A25	L2525451-1	Sample RW	1668_octyl_1	1668_octyl_1	Tray1:5	1.000000	A2
23	5-201202A26	L2525454-1	Sample RW	1668_octyl_1	1668_octyl_1	Tray1:6	1.000000	
24	5-201202A27	H5-20-CCV-1032	1668A-CS3-020	1668_octyl_1	1668_octyl_1	Tray1:1	1.000000	
25	5-201202A28	H5-20-WDM-1033	1668A-CS7-020	1668_octyl_1	1668_octyl_1	Tray1:2	1.000000	
26	5-201202A29	TOLUENE	INST BLANK	1668_octyl_1	1668_octyl_1	Tray1:3	1.000000	
27	5-201202A30	L2528382-1	Sample	1668_octyl_1	1668_octyl_1	Tray1:16	1.000000	
28	5-201202A31	L2528382-2	Sample	1668_octyl_1	1668_octyl_1	Tray1:17	1.000000	
29	5-201202A32	L2528382-3	Sample	1668_octyl_1	1668_octyl_1	Tray1:18	1.000000	
30	5-201202A33	L2528382-4	Sample	1668_octyl_1	1668_octyl_1	Tray1:19	1.000000	
31	5-201202A34	L2528382-5	Sample	1668_octyl_1	1668_octyl_1	Tray1:20	1.000000	A3
32	5-201202A35	L2528384-1	Sample	1668_octyl_1	1668_octyl_1	Tray1:21	1.000000	
33	5-201202A36	L2528384-2	Sample	1668_octyl_1	1668_octyl_1	Tray1:22	1.000000	
34	5-201202A37	L2528384-3	Sample	1668_octyl_1	1668_octyl_1	Tray1:23	1.000000	
35	5-201202A38	L2528384-4	Sample	1668_octyl_1	1668_octyl_1	Tray1:24	1.000000	
36	5-201202A39	L2528384-5	Sample	1668_octyl_1	1668_octyl_1	Tray1:25	1.000000	
37	5-201202A40	L2528384-6	Sample	1668_octyl_1	1668_octyl_1	Tray1:26	1.000000	
38	5-201202A41	H5-20-CCV-1034	1668A-CS3-020	1668_octyl_1	1668_octyl_1	Tray1:1	1.000000	
39	---	Op	SJ	---	---	---	0.000000	
40	---	Det	350	---	---	---	0.000000	
41	---	Column	SPBOCTYL	256001-01	---	---	0.000000	

VP ✓
MR ✓
window ✓
chro ✓
Toluene 209?
IS

LM Fn1 S14, S16, S36
S18. S19

CS0 ✓
RS ✓

QC S14 most ES < 30% failed 1668A
NS ✓

A1 MB ✓
Rec 19L slightly low for few sample
CS5 ✓

A2 ✓

A3 Rec ✓
CS5 ✓

	File Name	Sample ID	File Text	Sample Type	Na Conc A	Na Conc B	Na Conc C	Na Conc D	Na Conc E	Na Conc F	Na Conc G	Na Conc H	FS Conc	CS Conc	ES Conc 1	ES Conc 2	IS Conc	Sample Size	Quan Meth	Quan Ref
1	5-201202A04	H5-20-CS0-1035	1668A-CS0-020	QC	0.2	0.2	0.2	0.4	---	---	---	---	100	100	100	200	100	1.000	---	---
2	5-201202A03	H5-20-CS1-1035	1668A-CS1-020	Standard	1	1	1	2	---	---	---	---	100	100	100	200	100	1.000	---	---
3	5-201202A02	H5-20-CS2-1035	1668A-CS2-020	Standard	5	5	5	10	---	---	---	---	100	100	100	200	100	1.000	---	---
4	5-201202A01	H5-20-CS3-1035	1668A-CS3-020	Standard	50	50	50	100	---	---	---	---	100	100	100	200	100	1.000	---	---
5	5-201202A07	H5-20-CS4-1035	1668A-CS4-020	Standard	400	400	400	800	---	---	---	---	100	100	100	200	100	1.000	---	---
6	5-201202A08	H5-20-CS5-1035	1668A-CS5-020	Standard	2000	2000	2000	4000	---	---	---	---	100	100	100	200	100	1.000	---	---
7	5-201202A09	H5-20-RS1-1035	1668A-RS1-020	QC	50	50	50	100	---	---	---	---	100	100	100	200	100	1.000	---	---
8	5-201202A10	H5-20-RS2-1035	1668A-RS2-020	QC	---	---	---	---	---	---	---	---	100	100	100	200	100	1.000	---	---
9	5-201202A12	H5-20-WDM-1036	1668A-CS7-020	QC	50	50	50	100	150	200	250	300	100	100	100	200	100	1.000	---	---

Quantify Sample Summary Report **MassLynx MassLynx V4.1 SCN 901**

Dataset: C:\MassLynx\PCB.PRO\Results\Local\2020-ARCHIVE\2020-December\5-201202A-ICAL.qld

Last Altered: Wednesday, December 02, 2020 16:02:34 Eastern Standard Time
Printed: Wednesday, April 28, 2021 10:50:51 Eastern Daylight Time

Method: C:\MassLynx\PCB.PRO\MethDB\1668-OCTYL-1-ICAL-201030B.mdb 07 Feb 2020 11:57:21
Calibration: C:\MassLynx\PCB.PRO\CurveDB\5-201202A-ICAL.cdb 02 Dec 2020 15:02:34

Name: 5-201202A03, Date: 02-Dec-2020, Time: 11:14:48, ID: H5-20-CS1-1035, Description: 1668A-CS1-020, Vial: Tray1:5

	Target Analyte	#Hom	Total Area	Ion1 Area	Ion2 Area	Ra	Ra Fail=Y...	RT	RRT	RT LCL	RT UCL	Conc.	%Rec	Mod.Comment	Noise 1	Noise 2
1	PCB-1		22943	17572	5371	3.27	NO	8.95	1.00	8.92	8.99	0.94502	94.5		1046	742
2	PCB-3		22071	16965	5106	3.32	NO	10.48	1.00	10.45	10.51	0.95609	95.6		1046	742
3	PCB-4		11506	7258	4248	1.71	NO	10.63	1.00	10.60	10.67	0.94580	94.6	SJ201202MB	3420	28338
4	PCB-15		15550	9339	6210	1.50	NO	14.32	1.00	14.28	14.35	0.89029	89.0		1634	5068
5	PCB-19		10358	5337	5021	1.06	NO	12.62	1.00	12.59	12.66	0.90320	90.3		3634	2953
6	PCB-37		11419	6095	5324	1.14	NO	18.24	1.00	18.21	18.27	0.93543	93.5	SJ201202MS	4587	3608
7	PCB-54		12846	5758	7088	0.81	NO	14.46	1.00	14.43	14.50	0.93835	93.8		477	795
8	PCB-81		8505	3851	4654	0.83	NO	21.81	1.00	21.77	21.84	0.89044	89.0	SJ201202MB	811	914
9	PCB-77		8169	3383	4787	0.71	NO	22.11	1.00	22.08	22.15	0.87138	87.1	SJ201202MB	811	914
10	PCB-104		10377	6206	4171	1.49	NO	17.50	1.00	17.47	17.54	0.91295	91.3		470	861
11	PCB-123		6784	4344	2440	1.78	NO	23.08	1.00	23.05	23.11	0.88869	88.9	SJ201202MB	782	1098
12	PCB-118		7794	4627	3167	1.46	NO	23.25	1.00	23.22	23.28	0.91777	91.8		782	1098
13	PCB-114		7666	4591	3075	1.49	NO	23.55	1.00	23.52	23.58	0.95632	95.6		782	1098
14	PCB-105		7125	4306	2819	1.53	NO	23.91	1.00	23.88	23.95	0.90365	90.4	SJ201202MB	782	1098
15	PCB-126		6194	3844	2350	1.64	NO	25.51	1.00	25.48	25.54	0.87311	87.3		782	1098
16	PCB-155		9294	5147	4147	1.24	NO	20.48	1.00	20.45	20.52	0.95120	95.1		433	406
17	PCB-167		6068	3310	2758	1.20	NO	26.38	1.00	26.35	26.41	0.89220	89.2		581	469
18	PCB-156/157		12016	6481	5535	1.17	NO	27.02	1.00	26.99	27.05	1.81796	90.9		581	469
19	PCB-169		5260	2854	2407	1.19	NO	28.69	1.00	28.65	28.72	0.83850	83.8		581	469
20	PCB-188		5936	2989	2948	1.01	NO	23.48	1.00	23.44	23.51	0.88007	88.0		1147	623
21	PCB-189		5379	2850	2529	1.13	NO	29.95	1.00	29.91	29.98	0.91654	91.7		1117	766
22	PCB-202		5603	2583	3020	0.86	NO	26.26	1.00	26.22	26.29	0.94696	94.7		367	506
23	PCB-205		4371	2025	2346	0.86	NO	31.33	1.00	31.29	31.36	0.95609	95.6		285	374
24	PCB-208		4645	2159	2486	0.87	NO	29.67	1.00	29.63	29.70	0.95790	95.8	SJ201202MB	469	560
25	PCB-206		3294	1359	1936	0.70	NO	32.37	1.00	32.34	32.41	0.96926	96.9		469	560
26	PCB-209		5322	2913	2409	1.21	NO	33.50	1.00	33.46	33.53	1.15503	115.5		454	374
27	13C-PCB-31		1370043	700448	669595	1.05	NO	15.81	0.87	15.78	15.84	104.68744	104.7		25593	12182
28	13C-PCB-95		526202	324647	201555	1.61	NO	19.10	1.09	19.06	19.13	107.79906	107.8		2145	1396
29	13C-PCB-153		613797	347840	265957	1.31	NO	24.16	1.18	24.12	24.19	106.62198	106.6		1846	2545
30	13C-PCB-28		1450835	745835	705000	1.06	NO	15.98	0.94	15.94	16.01	98.38322	98.4		25593	12182
31	13C-PCB-111		615205	380026	235179	1.62	NO	22.00	1.07	21.97	22.04	98.58609	98.6		2145	1396
32	13C-PCB-178		429853	218744	211109	1.04	NO	25.04	1.01	25.00	25.07	99.64373	99.6		891	990
33	13C-PCB-1		2122818	1592908	529911	3.01	NO	8.95	0.75	8.92	8.99	91.26396	91.3		2708	8582
34	13C-PCB-3		1930746	1454432	476314	3.05	NO	10.47	0.88	10.43	10.50	93.37930	93.4		2708	8582

Name: 5-201202A03, Date: 02-Dec-2020, Time: 11:14:48, ID: H5-20-CS1-1035, Description: 1668A-CS1-020, Vial: Tray1:5

	Target Analyte	#Hom	Total Area	Ion1 Area	Ion2 Area	Ra	Ra Fail=Y...	RT	RRT	RT LCL	RT UCL	Conc.	%Rec	Mod.Comment	Noise 1	Noise 2
35	13C-PCB-4		1366014	838348	527666	1.59	NO	10.62	0.89	10.59	10.65	93.85965	93.9		4508	2763
36	13C-PCB-15		1592072	987148	604925	1.63	NO	14.30	1.20	14.26	14.33	87.64473	87.6		9233	4170
37	13C-PCB-19		986050	500683	485366	1.03	NO	12.61	1.06	12.58	12.64	90.62922	90.6		37212	43295
38	13C-PCB-37		1096006	564320	531685	1.06	NO	18.24	1.08	18.21	18.27	90.37281	90.4		25593	12182
39	13C-PCB-54		1281924	560598	721326	0.78	NO	14.45	0.85	14.42	14.49	89.84960	89.8		7136	5029
40	13C-PCB-81		788127	350499	437628	0.80	NO	21.80	1.06	21.76	21.83	92.76278	92.8		7699	3302
41	13C-PCB-77		807193	360577	446616	0.81	NO	22.10	1.07	22.07	22.14	93.39687	93.4		7699	3302
42	13C-PCB-104		985790	601586	384204	1.57	NO	17.49	1.03	17.46	17.53	92.49401	92.5		1616	1906
43	13C-PCB-123		692882	424736	268146	1.58	NO	23.07	1.12	23.03	23.10	93.11807	93.1		3001	2354
44	13C-PCB-118		725277	451335	273942	1.65	NO	23.24	1.13	23.20	23.27	92.85225	92.9		3001	2354
45	13C-PCB-114		651853	408104	243749	1.67	NO	23.54	0.95	23.51	23.57	91.54094	91.5		3001	2354
46	13C-PCB-105		654175	408431	245744	1.66	NO	23.90	0.96	23.87	23.93	92.83443	92.8		3001	2354
47	13C-PCB-126		585461	364284	221177	1.65	NO	25.50	1.03	25.46	25.53	91.58498	91.6		3001	2354
48	13C-PCB-155		923888	511951	411936	1.24	NO	20.48	0.99	20.44	20.51	91.25272	91.3		1058	1101
49	13C-PCB-167		616289	347246	269044	1.29	NO	26.37	1.06	26.33	26.40	94.25545	94.3		1846	2545
50	13C-PCB-156/157		1157700	655427	502273	1.30	NO	27.01	1.09	26.97	27.04	183.59593	91.8		1846	2545
51	13C-PCB-169		574726	325238	249488	1.30	NO	28.67	1.15	28.64	28.71	97.01853	97.0		1846	2545
52	13C-PCB-188		715019	364479	350539	1.04	NO	23.47	0.94	23.43	23.50	93.16554	93.2		891	990
53	13C-PCB-189		581537	300375	281162	1.07	NO	29.92	0.96	29.88	29.95	97.03344	97.0		1160	1616
54	13C-PCB-202		549068	258560	290508	0.89	NO	26.23	1.06	26.20	26.27	92.56867	92.6		899	780
55	13C-PCB-205		499310	234507	264804	0.89	NO	31.30	1.01	31.27	31.33	95.17697	95.2		851	991
56	13C-PCB-208		397032	175038	221994	0.79	NO	29.65	0.96	29.62	29.69	94.90022	94.9		661	563
57	13C-PCB-206		280734	125342	155392	0.81	NO	32.36	1.04	32.33	32.39	95.78748	95.8		661	563
58	13C-PCB-209		455200	248902	206298	1.21	NO	33.48	1.08	33.45	33.52	97.34691	97.3		252	172
59	13C-PCB-9		2163196	1316583	846612	1.56	NO	11.88	0.48	11.85	11.92	108.09882	108.1		4508	2763
60	13C-PCB-52		836277	377607	458669	0.82	NO	16.97	0.68	16.93	17.00	105.78103	105.8		7551	4376
61	13C-PCB-101		548507	340454	208053	1.64	NO	20.61	0.83	20.58	20.65	104.50346	104.5		2145	1396
62	13C-PCB-138		515860	293267	222592	1.32	NO	24.84	0.00	24.81	24.88	103.21601	103.2		1846	2545
63	13C-PCB-194		352402	165625	186777	0.89	NO	31.02	1.25	30.99	31.05	105.37611	105.4		851	991
64	Total MoCB-F1	2		34538								1.90110			1046	
65	Total DiCB-F1	1		7258								0.94580			3420	
66	Total DiCB-F2	1		9339								0.89029			1634	
67	Total TrCB-F1	1		5337								0.90320			1594	
68	Total TrCB-F3	3		20604								24794.93366			1507	
69	Total TeCB-F2	1		5758								0.93835			477	
70	Total TeCB-F4	2		7234								1.76182			811	
71	Total PeCB-F3	1		6206								0.91295			470	

Quantify Sample Summary Report **MassLynx MassLynx V4.1 SCN 901**

Dataset: C:\MassLynx\PCB.PRO\Results\Local\2020-ARCHIVE\2020-December\5-201202A-ICAL.qld

Last Altered: Wednesday, December 02, 2020 16:02:34 Eastern Standard Time
Printed: Wednesday, April 28, 2021 10:50:51 Eastern Daylight Time

Name: 5-201202A03, Date: 02-Dec-2020, Time: 11:14:48, ID: H5-20-CS1-1035, Description: 1668A-CS1-020, Vial: Tray1:5

	Target Analyte	#Hom	Total Area	Ion1 Area	Ion2 Area	Ra	Ra Fail=Y...	RT	RRT	RT LCL	RT UCL	Conc.	%Rec	Mod.Comment	Noise 1	Noise 2
72	Total PeCB-F5	5		21712								4.53955			782	
73	Total HxCB-F4	1		5147								0.95120			433	
74	Total HxCB-F5	3		12644								3.54866			581	
75	Total HpCB-F5	5		11072								17155.93828			552	
76	Total HpCB-F6	1		2850								0.91654			489	
77	Total OcCB-F5	1		2583								0.94696			367	
78	Total OcCB-F6	1		2025								0.95609			285	
79	Total NoCB-F6	2		3517								1.92716			469	
80	Total DeCB-F7	1		2913								1.15503			454	
81	Total 13C-MoCB-F1	2		3047340								184.64326			2708	
82	Total 13C-DiCB-F1	3		2157736								202.46599			4508	
83	Total 13C-DiCB-F2	4		1983612								1901140.073...			9233	
84	Total 13C-TrCB-F1	1		500683								90.62922			37212	
85	Total 13C-TrCB-F3	4		2013652								5062.87141			25593	
86	Total 13C-TeCB-F2	1		560598								89.84960			7136	
87	Total 13C-TeCB-F3	4		388230								108.76651			7551	
88	Total 13C-TeCB-F4	8		728951								24600.16277			7699	
89	Total 13C-PeCB-F3	4		603667								1808.85020			1616	
90	Total 13C-PeCB-F4	6		1048527								313.92461			2145	
91	Total 13C-PeCB-F5	14		2096010								48815.84235			3001	
92	Total 13C-HxCB-F4	2		514541								2750.77005			1058	
93	Total 13C-HxCB-F5	14		1990152								621.58448			1846	
94	Total 13C-HpCB-F5	6		591307								14515.46511			891	
95	Total 13C-HpCB-F6	5		319689								30291.02415			1160	
96	Total 13C-OcCB-F5	2		259023								1166.03060			899	
97	Total 13C-OcCB-F6	4		412523								215.00101			851	
98	Total 13C-NoCB-F6	2		300381								190.68771			661	
99	Total 13C-DeCB-F7	1		248902								97.34691			252	
100	Lockmass F1			0											540321	
101	Lockmass F2			0											529974	
102	Lockmass F3			0											787952	
103	Lockmass F4			0											439348	
104	Lockmass F5			0											179854	
105	Lockmass F6			0											143183	
106	Lockmass F7			0											31149	

Quantify Sample Summary Report **MassLynx MassLynx V4.1 SCN 901**

Dataset: C:\MassLynx\PCB.PRO\Results\Local\2020-ARCHIVE\2020-December\5-201202A-ICAL.qld

Last Altered: Wednesday, December 02, 2020 16:02:34 Eastern Standard Time
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Name: 5-201202A02, Date: 02-Dec-2020, Time: 10:34:22, ID: H5-20-CS2-1035, Description: 1668A-CS2-020, Vial: Tray1:4

	Target Analyte	#Hom	Total Area	Ion1 Area	Ion2 Area	Ra	Ra Fail=Y...	RT	RRT	RT LCL	RT UCL	Conc.	%Rec	Mod.Comment	Noise 1	Noise 2
1	PCB-1		113908	86991	26918	3.23	NO	8.97	1.00	8.93	9.00	4.88616	97.7		1069	861
2	PCB-3		103388	79446	23942	3.32	NO	10.49	1.00	10.46	10.53	4.80329	96.1		1069	861
3	PCB-4		57847	32246	25601	1.26	YES	10.65	1.00	10.62	10.68	5.07921	101.6		2379	21859
4	PCB-15		83006	50873	32133	1.58	NO	14.32	1.00	14.29	14.36	4.77813	95.6		1805	7870
5	PCB-19		55328	28529	26799	1.06	NO	12.64	1.00	12.61	12.67	4.94085	98.8		3739	2817
6	PCB-37		54846	28528	26318	1.08	NO	18.27	1.00	18.23	18.30	4.65317	93.1		4704	4102
7	PCB-54		67645	30006	37639	0.80	NO	14.49	1.00	14.46	14.52	4.82766	96.6		856	950
8	PCB-81		44216	19681	24535	0.80	NO	21.83	1.00	21.79	21.86	4.66988	93.4	SJ201202MB	960	932
9	PCB-77		42316	18717	23599	0.79	NO	22.13	1.00	22.10	22.16	4.58784	91.8	SJ201202MB	960	932
10	PCB-104		55022	33920	21101	1.61	NO	17.52	1.00	17.49	17.56	4.81101	96.2		423	1233
11	PCB-123		35941	22345	13595	1.64	NO	23.10	1.00	23.07	23.14	4.78705	95.7		949	1488
12	PCB-118		38944	24432	14512	1.68	NO	23.27	1.00	23.24	23.31	4.63061	92.6		949	1488
13	PCB-114		38130	23370	14760	1.58	NO	23.58	1.00	23.54	23.61	4.76975	95.4		949	1488
14	PCB-105		37766	23435	14330	1.64	NO	23.93	1.00	23.89	23.96	4.77355	95.5		949	1488
15	PCB-126		32857	20367	12490	1.63	NO	25.52	1.00	25.49	25.55	4.59861	92.0		949	1488
16	PCB-155		47483	26112	21371	1.22	NO	20.50	1.00	20.47	20.54	4.75732	95.1		382	342
17	PCB-167		32728	17788	14940	1.19	NO	26.40	1.00	26.37	26.44	4.78726	95.7		895	472
18	PCB-156/157		63228	34328	28900	1.19	NO	27.03	1.00	27.00	27.06	9.49305	94.9		895	472
19	PCB-169		29771	16086	13685	1.18	NO	28.70	1.00	28.67	28.73	4.82852	96.6		895	472
20	PCB-188		31402	15997	15405	1.04	NO	23.50	1.00	23.47	23.54	4.63040	92.6		1252	956
21	PCB-189		28322	14145	14177	1.00	NO	29.96	1.00	29.93	29.99	4.74349	94.9		1451	1063
22	PCB-202		29128	13349	15779	0.85	NO	26.27	1.00	26.24	26.30	4.87303	97.5		415	530
23	PCB-205		21553	10395	11158	0.93	NO	31.34	1.00	31.31	31.37	4.60569	92.1		268	322
24	PCB-208		23090	10175	12914	0.79	NO	29.68	1.00	29.65	29.71	4.72635	94.5		488	710
25	PCB-206		16782	7563	9219	0.82	NO	32.40	1.00	32.37	32.43	4.85088	97.0		488	710
26	PCB-209		22201	12023	10179	1.18	NO	33.53	1.00	33.49	33.56	4.82234	96.4		460	380
27	13C-PCB-31		1379846	712831	667015	1.07	NO	15.83	0.87	15.80	15.86	108.61931	108.6		30604	10141
28	13C-PCB-95		526225	325516	200709	1.62	NO	19.13	1.09	19.09	19.16	108.30614	108.3		2423	1977
29	13C-PCB-153		620077	349519	270559	1.29	NO	24.18	1.18	24.15	24.21	107.01314	107.0		3074	1835
30	13C-PCB-28		1449204	740127	709077	1.04	NO	16.00	0.94	15.96	16.03	100.06717	100.1		30604	10141
31	13C-PCB-111		622046	387174	234872	1.65	NO	22.02	1.07	21.99	22.05	100.05019	100.1		2423	1977
32	13C-PCB-178		443818	226535	217283	1.04	NO	25.06	1.01	25.03	25.09	100.51488	100.5		1417	1548
33	13C-PCB-1		2038387	1530528	507859	3.01	NO	8.97	0.75	8.93	9.00	93.64477	93.6		2092	6623
34	13C-PCB-3		1800219	1357892	442327	3.07	NO	10.49	0.88	10.46	10.53	93.03814	93.0		2092	6623
35	13C-PCB-4		1278864	782136	496729	1.57	NO	10.63	0.89	10.60	10.67	93.89851	93.9		3753	2103
36	13C-PCB-15		1583510	977495	606015	1.61	NO	14.32	1.20	14.28	14.35	93.15245	93.2		8858	3584
37	13C-PCB-19		962797	491468	471330	1.04	NO	12.62	1.06	12.59	12.66	94.56155	94.6		34135	37388

Name: 5-201202A02, Date: 02-Dec-2020, Time: 10:34:22, ID: H5-20-CS2-1035, Description: 1668A-CS2-020, Vial: Tray1:4

	Target Analyte	#Hom	Total Area	Ion1 Area	Ion2 Area	Ra	Ra Fail=Y...	RT	RRT	RT LCL	RT UCL	Conc.	%Rec	Mod.Comment	Noise 1	Noise 2
38	13C-PCB-37		1058249	543902	514348	1.06	NO	18.26	1.07	18.22	18.29	88.85302	88.9		30604	10141
39	13C-PCB-54		1312094	578786	733308	0.79	NO	14.47	0.85	14.44	14.51	93.64357	93.6		9886	4075
40	13C-PCB-81		781280	348028	433252	0.80	NO	21.82	1.06	21.78	21.85	92.29618	92.3		6800	3363
41	13C-PCB-77		794119	352075	442045	0.80	NO	22.12	1.07	22.09	22.16	92.22325	92.2		6800	3363
42	13C-PCB-104		991912	606846	385067	1.58	NO	17.51	1.03	17.48	17.55	93.41195	93.4		1225	1139
43	13C-PCB-123		681424	417096	264328	1.58	NO	23.09	1.12	23.06	23.13	91.91622	91.9		2997	2129
44	13C-PCB-118		718208	440967	277241	1.59	NO	23.26	1.13	23.23	23.29	92.28656	92.3		2997	2129
45	13C-PCB-114		650082	398263	251819	1.58	NO	23.56	0.95	23.53	23.60	91.62920	91.6		2997	2129
46	13C-PCB-105		656355	404593	251762	1.61	NO	23.91	0.96	23.88	23.95	93.48758	93.5		2997	2129
47	13C-PCB-126		589617	365882	223736	1.64	NO	25.52	1.03	25.49	25.55	92.57555	92.6		2997	2129
48	13C-PCB-155		943725	522932	420793	1.24	NO	20.49	0.99	20.46	20.53	93.55611	93.6		1515	960
49	13C-PCB-167		619489	350603	268886	1.30	NO	26.39	1.06	26.36	26.42	92.56571	92.6		3074	1835
50	13C-PCB-156/157		1166640	657506	509134	1.29	NO	27.02	1.09	26.99	27.05	180.75861	90.4		3074	1835
51	13C-PCB-169		564837	321924	242913	1.33	NO	28.69	1.15	28.65	28.72	93.15614	93.2		3074	1835
52	13C-PCB-188		718865	365074	353791	1.03	NO	23.49	0.94	23.46	23.52	91.51250	91.5		1417	1548
53	13C-PCB-189		591693	304360	287334	1.06	NO	29.95	0.96	29.91	29.98	96.45740	96.5		1750	1833
54	13C-PCB-202		554691	264562	290129	0.91	NO	26.26	1.06	26.22	26.29	91.36593	91.4		642	714
55	13C-PCB-205		511155	239623	271532	0.88	NO	31.33	1.01	31.29	31.36	96.00419	96.0		873	563
56	13C-PCB-208		400015	177217	222799	0.80	NO	29.67	0.96	29.63	29.70	94.20924	94.2		706	653
57	13C-PCB-206		285775	126913	158862	0.80	NO	32.39	1.04	32.35	32.42	96.07582	96.1		706	653
58	13C-PCB-209		454789	248895	205894	1.21	NO	33.50	1.08	33.46	33.53	95.83088	95.8		198	232
59	13C-PCB-9		2024349	1230573	793776	1.55	NO	11.90	0.48	11.86	11.93	101.16041	101.2		3753	2103
60	13C-PCB-52		821279	369779	451500	0.82	NO	16.99	0.68	16.95	17.02	103.88398	103.9		7055	4014
61	13C-PCB-101		546491	338549	207941	1.63	NO	20.64	0.83	20.61	20.68	104.11921	104.1		2423	1977
62	13C-PCB-138		528003	299207	228796	1.31	NO	24.87	0.00	24.83	24.90	105.64575	105.6		3074	1835
63	13C-PCB-194		357654	167396	190258	0.88	NO	31.05	1.25	31.01	31.08	106.94649	106.9		873	563
64	Total MoCB-F1	3		169518								3540.49347			1069	
65	Total DiCB-F1	1		32246								5.07921			2379	
66	Total DiCB-F2	1		50873								4.77813			1805	
67	Total TrCB-F1	1		28529								4.94085			1370	
68	Total TrCB-F3	4		101657								129463.73326			2018	
69	Total TeCB-F2	1		30006								4.82766			856	
70	Total TeCB-F4	2		38398								9.25772			960	
71	Total PeCB-F3	1		33920								4.81101			423	
72	Total PeCB-F5	7		114926								1694.24233			949	
73	Total HxCB-F4	1		26112								4.75732			382	
74	Total HxCB-F5	8		71362								5450.33210			895	

Quantify Sample Summary Report **MassLynx MassLynx V4.1 SCN 901**

Dataset: C:\MassLynx\PCB.PRO\Results\Local\2020-ARCHIVE\2020-December\5-201202A-ICAL.qld

Last Altered: Wednesday, December 02, 2020 16:02:34 Eastern Standard Time
Printed: Wednesday, April 28, 2021 10:50:51 Eastern Daylight Time

Name: 5-201202A02, Date: 02-Dec-2020, Time: 10:34:22, ID: H5-20-CS2-1035, Description: 1668A-CS2-020, Vial: Tray1:4

	Target Analyte	#Hom	Total Area	Ion1 Area	Ion2 Area	Ra	Ra Fail=Y...	RT	RRT	RT LCL	RT UCL	Conc.	%Rec	Mod.Comment	Noise 1	Noise 2
75	Total HpCB-F5	6		58110								88145.90305			476	
76	Total HpCB-F6	2		14745								1081.44330			563	
77	Total OcCB-F5	1		13349								4.87303			415	
78	Total OcCB-F6	3		11259								2066.25612			268	
79	Total NoCB-F6	2		17738								9.57723			488	
80	Total DeCB-F7	1		12023								4.82234			460	
81	Total 13C-MoCB-F1	2		2888419								186.68291			2092	
82	Total 13C-DiCB-F1	4		2016465								195.61476			3753	
83	Total 13C-DiCB-F2	3		1953392								1881050.707...			8858	
84	Total 13C-TrCB-F1	2		492019								2274.54095			34135	
85	Total 13C-TrCB-F3	3		1996860								297.53950			30604	
86	Total 13C-TeCB-F2	1		578786								93.64357			9886	
87	Total 13C-TeCB-F3	3		378703								106.47441			7055	
88	Total 13C-TeCB-F4	5		713595								17633.61149			6800	
89	Total 13C-PeCB-F3	2		607059								315.64856			1225	
90	Total 13C-PeCB-F4	10		1056308								317.60447			2423	
91	Total 13C-PeCB-F5	12		2063156								45319.13111			2997	
92	Total 13C-HxCB-F4	2		525505								2493.52844			1515	
93	Total 13C-HxCB-F5	11		1996728								610.36680			3074	
94	Total 13C-HpCB-F5	6		600016								14254.25787			1417	
95	Total 13C-HpCB-F6	5		323508								31042.09197			1750	
96	Total 13C-OcCB-F5	3		265333								1508.84463			642	
97	Total 13C-OcCB-F6	4		418157								216.45999			873	
98	Total 13C-NoCB-F6	3		304431								794.63351			706	
99	Total 13C-DeCB-F7	1		248895								95.83088			198	
100	Lockmass F1			0											588087	
101	Lockmass F2			0											347286	
102	Lockmass F3			0											658556	
103	Lockmass F4			0											550784	
104	Lockmass F5			0											139360	
105	Lockmass F6			0											166335	
106	Lockmass F7			0											34743	

Quantify Sample Summary Report **MassLynx MassLynx V4.1 SCN 901**

Dataset: C:\MassLynx\PCB.PRO\Results\Local\2020-ARCHIVE\2020-December\5-201202A-ICAL.qld

Last Altered: Wednesday, December 02, 2020 16:02:34 Eastern Standard Time
Printed: Wednesday, April 28, 2021 10:50:51 Eastern Daylight Time

Name: 5-201202A01, Date: 02-Dec-2020, Time: 09:37:44, ID: H5-20-CS3-1035, Description: 1668A-CS3-020, Vial: Tray1:1

	Target Analyte	#Hom	Total Area	Ion1 Area	Ion2 Area	Ra	Ra Fail=Y...	RT	RRT	RT LCL	RT UCL	Conc.	%Rec	Mod.Comment	Noise 1	Noise 2
1	PCB-1		1184753	904981	279772	3.23	NO	8.97	1.00	8.93	9.00	52.11743	104.2		1473	1073
2	PCB-3		1075332	822364	252968	3.25	NO	10.49	1.00	10.46	10.53	50.24101	100.5		1473	1073
3	PCB-4		575637	341872	233765	1.46	NO	10.65	1.00	10.62	10.68	50.13987	100.3		2429	16194
4	PCB-15		866461	526119	340341	1.55	NO	14.32	1.00	14.29	14.36	50.48266	101.0		1999	7600
5	PCB-19		582677	299264	283413	1.06	NO	12.64	1.00	12.61	12.67	51.44083	102.9		2941	2729
6	PCB-37		588339	302397	285942	1.06	NO	18.26	1.00	18.22	18.29	51.14393	102.3		6561	5625
7	PCB-54		699809	309891	389918	0.79	NO	14.48	1.00	14.45	14.51	50.81872	101.6		695	922
8	PCB-81		464242	204500	259742	0.79	NO	21.83	1.00	21.79	21.86	52.07293	104.1		593	1294
9	PCB-77		459213	201890	257322	0.78	NO	22.13	1.00	22.10	22.16	52.92481	105.8		593	1294
10	PCB-104		574686	350331	224355	1.56	NO	17.52	1.00	17.49	17.56	50.99681	102.0		577	1253
11	PCB-123		370261	226175	144086	1.57	NO	23.10	1.00	23.07	23.14	51.97570	104.0		1168	1650
12	PCB-118		412135	254102	158033	1.61	NO	23.27	1.00	23.24	23.31	51.56225	103.1		1168	1650
13	PCB-114		386057	237998	148059	1.61	NO	23.58	1.00	23.54	23.61	50.98588	102.0		1168	1650
14	PCB-105		384801	237512	147289	1.61	NO	23.93	1.00	23.89	23.96	50.99621	102.0		1168	1650
15	PCB-126		341654	208699	132955	1.57	NO	25.52	1.00	25.49	25.55	51.92216	103.8		1168	1650
16	PCB-155		475585	263800	211785	1.25	NO	20.50	1.00	20.47	20.54	49.96343	99.9		639	596
17	PCB-167		331148	183032	148116	1.24	NO	26.40	1.00	26.37	26.44	51.97220	103.9		952	908
18	PCB-156/157		646380	355815	290565	1.22	NO	27.03	1.00	27.00	27.06	103.28553	103.3		952	908
19	PCB-169		295684	163808	131876	1.24	NO	28.70	1.00	28.67	28.73	52.44200	104.9		952	908
20	PCB-188		336931	170397	166534	1.02	NO	23.50	1.00	23.47	23.54	52.12983	104.3		1896	2047
21	PCB-189		269911	137081	132830	1.03	NO	29.95	1.00	29.91	29.98	51.15368	102.3		1419	1685
22	PCB-202		290334	137703	152631	0.90	NO	26.27	1.00	26.24	26.30	50.01828	100.0		566	550
23	PCB-205		211366	101075	110291	0.92	NO	31.34	1.00	31.31	31.37	51.28891	102.6		348	500
24	PCB-208		225103	100839	124264	0.81	NO	29.68	1.00	29.65	29.71	51.20575	102.4		465	764
25	PCB-206		152325	67468	84857	0.80	NO	32.40	1.00	32.37	32.43	50.06947	100.1		465	764
26	PCB-209		194335	106394	87941	1.21	NO	33.53	1.00	33.49	33.56	47.82309	95.6		495	478
27	13C-PCB-31		1321872	685189	636683	1.08	NO	15.83	0.87	15.80	15.86	104.79879	104.8		22760	11423
28	13C-PCB-95		493550	304106	189444	1.61	NO	19.13	1.09	19.09	19.16	105.72978	105.7		1884	2071
29	13C-PCB-153		578936	327598	251338	1.30	NO	24.18	1.18	24.15	24.21	106.57012	106.6		2626	2223
30	13C-PCB-28		1383433	707892	675541	1.05	NO	16.00	0.94	15.96	16.03	97.01282	97.0		22760	11423
31	13C-PCB-111		585468	363519	221949	1.64	NO	22.02	1.07	21.99	22.05	100.22932	100.2		1884	2071
32	13C-PCB-178		413588	209616	203972	1.03	NO	25.06	1.01	25.03	25.09	100.85460	100.9		1149	990
33	13C-PCB-1		1987669	1497812	489857	3.06	NO	8.95	0.75	8.92	8.99	91.08913	91.1		2522	7630
34	13C-PCB-3		1790109	1343541	446569	3.01	NO	10.48	0.88	10.45	10.51	92.28708	92.3		2522	7630
35	13C-PCB-4		1289151	787593	501558	1.57	NO	10.63	0.89	10.60	10.67	94.41991	94.4		3168	2183
36	13C-PCB-15		1564492	975109	589384	1.65	NO	14.32	1.20	14.28	14.35	91.80630	91.8		6295	3590
37	13C-PCB-19		973895	500636	473259	1.06	NO	12.62	1.06	12.59	12.66	95.41516	95.4		36836	31238

Quantify Sample Summary Report **MassLynx MassLynx V4.1 SCN 901**

Dataset: C:\MassLynx\PCB.PRO\Results\Local\2020-ARCHIVE\2020-December\5-201202A-ICAL.qld

Last Altered: Wednesday, December 02, 2020 16:02:34 Eastern Standard Time
Printed: Wednesday, April 28, 2021 10:50:51 Eastern Daylight Time

Name: 5-201202A01, Date: 02-Dec-2020, Time: 09:37:44, ID: H5-20-CS3-1035, Description: 1668A-CS3-020, Vial: Tray1:1

	Target Analyte	#Hom	Total Area	Ion1 Area	Ion2 Area	Ra	Ra Fail=Y...	RT	RRT	RT LCL	RT UCL	Conc.	%Rec	Mod.Comment	Noise 1	Noise 2
38	13C-PCB-37		1032821	537888	494933	1.09	NO	18.25	1.07	18.22	18.28	88.06802	88.1		22760	11423
39	13C-PCB-54		1289507	571533	717973	0.80	NO	14.47	0.85	14.44	14.51	93.46426	93.5		7503	4308
40	13C-PCB-81		735643	333620	402023	0.83	NO	21.82	1.06	21.78	21.85	92.49978	92.5		6354	4547
41	13C-PCB-77		747046	331825	415221	0.80	NO	22.12	1.07	22.09	22.16	92.34176	92.3		6354	4547
42	13C-PCB-104		977381	594128	383253	1.55	NO	17.51	1.03	17.48	17.55	97.96918	98.0		1135	928
43	13C-PCB-123		646560	402607	243953	1.65	NO	23.09	1.12	23.06	23.13	92.82817	92.8		2291	3651
44	13C-PCB-118		682591	423265	259326	1.63	NO	23.26	1.13	23.23	23.29	93.35672	93.4		2291	3651
45	13C-PCB-114		615747	383736	232011	1.65	NO	23.56	0.95	23.53	23.60	92.37707	92.4		2291	3651
46	13C-PCB-105		626013	389266	236747	1.64	NO	23.91	0.96	23.88	23.95	94.90626	94.9		2291	3651
47	13C-PCB-126		543006	333319	209687	1.59	NO	25.51	1.03	25.48	25.54	90.74594	90.7		2291	3651
48	13C-PCB-155		900015	498843	401171	1.24	NO	20.49	0.99	20.46	20.53	94.96695	95.0		884	922
49	13C-PCB-167		577363	326975	250388	1.31	NO	26.39	1.06	26.36	26.42	92.88987	92.9		2626	2223
50	13C-PCB-156/157		1096179	621985	474194	1.31	NO	27.02	1.09	26.99	27.05	182.87153	91.4		2626	2223
51	13C-PCB-169		516532	292438	224094	1.30	NO	28.69	1.15	28.65	28.72	91.72512	91.7		2626	2223
52	13C-PCB-188		685112	347398	337713	1.03	NO	23.49	0.94	23.46	23.52	93.90674	93.9		1149	990
53	13C-PCB-189		522889	270225	252664	1.07	NO	29.95	0.96	29.91	29.98	91.78069	91.8		1170	981
54	13C-PCB-202		538651	255136	283516	0.90	NO	26.26	1.06	26.22	26.29	95.53077	95.5		657	700
55	13C-PCB-205		450136	210774	239361	0.88	NO	31.33	1.01	31.29	31.36	95.42792	95.4		720	590
56	13C-PCB-208		359954	160416	199538	0.80	NO	29.67	0.96	29.63	29.70	95.68815	95.7		693	630
57	13C-PCB-206		251305	109964	141342	0.78	NO	32.39	1.04	32.35	32.42	95.36443	95.4		693	630
58	13C-PCB-209		401423	219355	182067	1.20	NO	33.50	1.08	33.46	33.53	95.47556	95.5		209	199
59	13C-PCB-9		2029363	1233299	796065	1.55	NO	11.90	0.48	11.86	11.93	101.41098	101.4		3168	2183
60	13C-PCB-52		808689	364795	443895	0.82	NO	16.99	0.68	16.95	17.02	102.29151	102.3		6275	3704
61	13C-PCB-101		513436	319092	194344	1.64	NO	20.64	0.83	20.61	20.68	97.82152	97.8		1884	2071
62	13C-PCB-138		490381	275916	214465	1.29	NO	24.87	0.00	24.83	24.90	98.11820	98.1		2626	2223
63	13C-PCB-194		316861	146613	170248	0.86	NO	31.05	1.25	31.01	31.08	94.74838	94.7		720	590
64	Total MoCB-F1	3		1767049								44776.99032			1473	
65	Total DiCB-F1	2		359275								35698.33603			2429	
66	Total DiCB-F2	3		530155								5525.01758			1999	
67	Total TrCB-F1	1		299264								51.44083			1181	
68	Total TrCB-F3	4		1071700								1352609.381...			1895	
69	Total TeCB-F2	1		309891								50.81872			695	
70	Total TeCB-F4	6		411297								8628.25607			593	
71	Total PeCB-F3	1		350331								50.99681			577	
72	Total PeCB-F5	10		1184663								28017.85468			1168	
73	Total HxCB-F4	1		263800								49.96343			639	
74	Total HxCB-F5	14		736800								56466.23392			952	

Quantify Sample Summary Report **MassLynx MassLynx V4.1 SCN 901**

Dataset: C:\MassLynx\PCB.PRO\Results\Local\2020-ARCHIVE\2020-December\5-201202A-ICAL.qld

Last Altered: Wednesday, December 02, 2020 16:02:34 Eastern Standard Time
Printed: Wednesday, April 28, 2021 10:50:51 Eastern Daylight Time

Name: 5-201202A01, Date: 02-Dec-2020, Time: 09:37:44, ID: H5-20-CS3-1035, Description: 1668A-CS3-020, Vial: Tray1:1

	Target Analyte	#Hom	Total Area	Ion1 Area	Ion2 Area	Ra	Ra Fail=Y...	RT	RRT	RT LCL	RT UCL	Conc.	%Rec	Mod.Comment	Noise 1	Noise 2
75	Total HpCB-F5	11		601649								908626.96921			784	
76	Total HpCB-F6	4		143545								11790.32172			576	
77	Total OcCB-F5	4		139004								2405.70865			566	
78	Total OcCB-F6	5		109982								20381.07196			348	
79	Total NoCB-F6	3		168551								589.01821			465	
80	Total DeCB-F7	1		106394								47.82309			495	
81	Total 13C-MoCB-F1	2		2841352								183.37621			2522	
82	Total 13C-DiCB-F1	3		2023409								196.33053			3168	
83	Total 13C-DiCB-F2	5		1921891								1826242.450...			6295	
84	Total 13C-TrCB-F1	1		500636								95.41516			36836	
85	Total 13C-TrCB-F3	3		1930969								289.87963			22760	
86	Total 13C-TeCB-F2	1		571533								93.46426			7503	
87	Total 13C-TeCB-F3	4		375035								104.94548			6275	
88	Total 13C-TeCB-F4	9		684754								27213.65091			6354	
89	Total 13C-PeCB-F3	1		594128								97.96918			1135	
90	Total 13C-PeCB-F4	7		989956								306.68360			1884	
91	Total 13C-PeCB-F5	15		1969620								47641.52630			2291	
92	Total 13C-HxCB-F4	2		501539								2441.43424			884	
93	Total 13C-HxCB-F5	11		1861095								599.37832			2626	
94	Total 13C-HpCB-F5	6		564262								12387.58764			1149	
95	Total 13C-HpCB-F6	5		286947								26289.99288			1170	
96	Total 13C-OcCB-F5	3		256158								1510.01771			657	
97	Total 13C-OcCB-F6	4		367114								202.38805			720	
98	Total 13C-NoCB-F6	2		270380								191.05258			693	
99	Total 13C-DeCB-F7	1		219355								95.47556			209	
100	Lockmass F1			0											617806	
101	Lockmass F2			0											365074	
102	Lockmass F3			0											598398	
103	Lockmass F4			0											467639	
104	Lockmass F5			0											138824	
105	Lockmass F6			0											142394	
106	Lockmass F7			0											26982	

Quantify Sample Summary Report **MassLynx MassLynx V4.1 SCN 901**

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Printed: Wednesday, April 28, 2021 10:50:51 Eastern Daylight Time

Name: 5-201202A07, Date: 02-Dec-2020, Time: 12:39:10, ID: H5-20-CS4-1035, Description: 1668A-CS4-020, Vial: Tray1:7

	Target Analyte	#Hom	Total Area	Ion1 Area	Ion2 Area	Ra	Ra Fail=Y...	RT	RRT	RT LCL	RT UCL	Conc.	%Rec	Mod.Comment	Noise 1	Noise 2
1	PCB-1		10447930	7986019	2461912	3.24	NO	8.95	1.00	8.92	8.99	421.76125	105.4		3155	2022
2	PCB-3		9324057	7128651	2195406	3.25	NO	10.47	1.00	10.43	10.50	412.70647	103.2		3155	2022
3	PCB-4		4769046	2849679	1919366	1.48	NO	10.63	1.00	10.60	10.67	402.75136	100.7		3154	25361
4	PCB-15		7841275	4776133	3065142	1.56	NO	14.30	1.00	14.26	14.33	425.14463	106.3		2739	8246
5	PCB-19		4813161	2464210	2348951	1.05	NO	12.62	1.00	12.59	12.66	415.48941	103.9		3297	4291
6	PCB-37		5358542	2750676	2607866	1.05	NO	18.23	1.00	18.20	18.26	415.91155	104.0		9502	9730
7	PCB-54		5899392	2597820	3301572	0.79	NO	14.47	1.00	14.44	14.51	414.18838	103.5		1006	1559
8	PCB-81		4073172	1802608	2270564	0.79	NO	21.80	1.00	21.76	21.83	422.55704	105.6		1493	1916
9	PCB-77		4015462	1774563	2240900	0.79	NO	22.10	1.00	22.07	22.14	426.74176	106.7		1493	1916
10	PCB-104		4801956	2917289	1884668	1.55	NO	17.51	1.00	17.48	17.55	415.38872	103.8		852	1256
11	PCB-123		3157454	1926490	1230964	1.57	NO	23.08	1.00	23.05	23.11	416.60727	104.2		3630	2783
12	PCB-118		3554703	2174347	1380355	1.58	NO	23.25	1.00	23.22	23.28	422.47365	105.6		3630	2783
13	PCB-114		3322867	2029931	1292937	1.57	NO	23.55	1.00	23.52	23.58	416.66789	104.2		3630	2783
14	PCB-105		3272642	1995470	1277172	1.56	NO	23.91	1.00	23.88	23.95	416.48362	104.1		3630	2783
15	PCB-126		3014632	1849575	1165058	1.59	NO	25.50	1.00	25.46	25.53	423.56340	105.9		3630	2783
16	PCB-155		4106349	2281671	1824678	1.25	NO	20.49	1.00	20.46	20.53	411.76464	102.9		865	863
17	PCB-167		2773818	1522253	1251566	1.22	NO	26.38	1.00	26.35	26.41	421.62703	105.4		1735	2094
18	PCB-156/157		5510341	3049716	2460625	1.24	NO	27.02	1.00	26.99	27.05	840.13267	105.0		1735	2094
19	PCB-169		2462298	1356756	1105542	1.23	NO	28.67	1.00	28.64	28.71	427.68819	106.9		1735	2094
20	PCB-188		2831808	1429784	1402024	1.02	NO	23.49	1.00	23.46	23.52	428.27324	107.1		4048	4489
21	PCB-189		2253505	1145003	1108503	1.03	NO	29.95	1.00	29.91	29.98	418.41711	104.6		4716	3758
22	PCB-202		2390902	1126711	1264191	0.89	NO	26.26	1.00	26.22	26.29	413.80896	103.5		1008	724
23	PCB-205		1746561	826852	919709	0.90	NO	31.33	1.00	31.29	31.36	418.43117	104.6		960	1185
24	PCB-208		1814687	810808	1003879	0.81	NO	29.68	1.00	29.65	29.71	415.69493	103.9		918	1251
25	PCB-206		1259395	562400	696995	0.81	NO	32.40	1.00	32.37	32.43	409.81100	102.5		918	1251
26	PCB-209		1573899	855231	718669	1.19	NO	33.51	1.00	33.48	33.54	383.21115	95.8		424	501
27	13C-PCB-31		1354656	696983	657673	1.06	NO	15.81	0.87	15.78	15.84	100.11245	100.1		23580	11112
28	13C-PCB-95		493039	304174	188865	1.61	NO	19.11	1.09	19.07	19.14	100.94672	100.9		1987	2707
29	13C-PCB-153		564535	318676	245859	1.30	NO	24.17	1.18	24.13	24.20	100.02651	100.0		2628	1859
30	13C-PCB-28		1401915	716563	685352	1.05	NO	15.99	0.94	15.95	16.02	100.82355	100.8		23580	11112
31	13C-PCB-111		584534	361967	222568	1.63	NO	22.00	1.07	21.97	22.04	98.80166	98.8		1987	2707
32	13C-PCB-178		398024	200823	197201	1.02	NO	25.05	1.01	25.02	25.08	99.20523	99.2		1006	753
33	13C-PCB-1		2166022	1623438	542584	2.99	NO	8.94	0.75	8.91	8.97	99.86214	99.9		2376	11457
34	13C-PCB-3		1889553	1423364	466189	3.05	NO	10.47	0.88	10.43	10.50	98.00222	98.0		2376	11457
35	13C-PCB-4		1329636	815160	514476	1.58	NO	10.62	0.89	10.59	10.65	97.97339	98.0		4391	2204
36	13C-PCB-15		1681190	1032846	648344	1.59	NO	14.29	1.20	14.25	14.32	99.25021	99.3		7307	5504
37	13C-PCB-19		996007	507211	488796	1.04	NO	12.61	1.06	12.58	12.64	98.17105	98.2		45883	45252

Quantify Sample Summary Report **MassLynx MassLynx V4.1 SCN 901**

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Name: 5-201202A07, Date: 02-Dec-2020, Time: 12:39:10, ID: H5-20-CS4-1035, Description: 1668A-CS4-020, Vial: Tray1:7

	Target Analyte	#Hom	Total Area	Ion1 Area	Ion2 Area	Ra	Ra Fail=Y...	RT	RRT	RT LCL	RT UCL	Conc.	%Rec	Mod.Comment	Noise 1	Noise 2
38	13C-PCB-37		1156744	600055	556689	1.08	NO	18.22	1.07	18.19	18.25	101.15788	101.2		23580	11112
39	13C-PCB-54		1333758	589676	744082	0.79	NO	14.45	0.85	14.42	14.49	99.14443	99.1		6816	5828
40	13C-PCB-81		795394	357575	437819	0.82	NO	21.79	1.06	21.76	21.82	98.74570	98.7		5164	3382
41	13C-PCB-77		810145	361805	448340	0.81	NO	22.09	1.07	22.06	22.13	98.87273	98.9		5164	3382
42	13C-PCB-104		1002628	612306	390322	1.57	NO	17.49	1.03	17.46	17.53	99.22653	99.2		1201	1053
43	13C-PCB-123		687877	421801	266076	1.59	NO	23.07	1.12	23.03	23.10	97.50894	97.5		1924	1912
44	13C-PCB-118		718549	444746	273803	1.62	NO	23.24	1.13	23.20	23.27	97.02953	97.0		1924	1912
45	13C-PCB-114		648520	402566	245954	1.64	NO	23.54	0.95	23.51	23.57	96.06121	96.1		1924	1912
46	13C-PCB-105		651907	404798	247109	1.64	NO	23.90	0.96	23.87	23.93	97.57974	97.6		1924	1912
47	13C-PCB-126		587336	364752	222584	1.64	NO	25.48	1.03	25.45	25.52	96.91068	96.9		1924	1912
48	13C-PCB-155		942932	523530	419403	1.25	NO	20.48	0.99	20.44	20.51	98.23495	98.2		1335	779
49	13C-PCB-167		596138	338540	257599	1.31	NO	26.37	1.06	26.33	26.40	98.03105	98.0		2628	1859
50	13C-PCB-156/157		1148850	651055	497796	1.31	NO	27.01	1.09	26.97	27.04	195.89594	97.9		2628	1859
51	13C-PCB-169		527426	298793	228633	1.31	NO	28.67	1.15	28.64	28.71	95.73046	95.7		2628	1859
52	13C-PCB-188		700890	355298	345591	1.03	NO	23.48	0.94	23.44	23.51	98.19348	98.2		1006	753
53	13C-PCB-189		533722	274776	258946	1.06	NO	29.93	0.96	29.90	29.97	95.75338	95.8		1049	677
54	13C-PCB-202		536168	253488	282680	0.90	NO	26.25	1.06	26.21	26.28	97.19278	97.2		732	727
55	13C-PCB-205		455923	213359	242565	0.88	NO	31.31	1.01	31.28	31.35	99.55504	99.6		612	639
56	13C-PCB-208		357446	158614	198833	0.80	NO	29.67	0.96	29.63	29.70	97.87282	97.9		574	514
57	13C-PCB-206		253853	111933	141920	0.79	NO	32.37	1.04	32.34	32.41	99.22150	99.2		574	514
58	13C-PCB-209		405720	222359	183361	1.21	NO	33.50	1.08	33.46	33.53	99.39312	99.4		199	263
59	13C-PCB-9		2017178	1229035	788143	1.56	NO	11.88	0.48	11.85	11.92	100.80206	100.8		4391	2204
60	13C-PCB-52		788519	357377	431142	0.83	NO	16.97	0.68	16.93	17.00	99.74022	99.7		6385	4182
61	13C-PCB-101		520024	321313	198711	1.62	NO	20.62	0.83	20.59	20.66	99.07678	99.1		1987	2707
62	13C-PCB-138		479774	267092	212682	1.26	NO	24.86	0.00	24.82	24.89	95.99578	96.0		2628	1859
63	13C-PCB-194		307630	143195	164435	0.87	NO	31.03	1.25	31.00	31.07	91.98824	92.0		612	639
64	Total MoCB-F1	4		15449611								370302.34723			3155	
65	Total DiCB-F1	2		3027237								337262.75178			3154	
66	Total DiCB-F2	4		4789498								18898.56151			2739	
67	Total TrCB-F1	1		2464210								415.48941			1167	
68	Total TrCB-F3	5		9616647								12005326.63...			3298	
69	Total TeCB-F2	1		2597820								414.18838			1006	
70	Total TeCB-F4	8		3616193								74587.81409			1493	
71	Total PeCB-F3	1		2917289								415.38872			852	
72	Total PeCB-F5	13		10163345								259733.40414			3630	
73	Total HxCB-F4	4		2283473								3792.49128			865	
74	Total HxCB-F5	16		6246492								526851.99606			1735	

Quantify Sample Summary Report **MassLynx MassLynx V4.1 SCN 901**

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Name: 5-201202A07, Date: 02-Dec-2020, Time: 12:39:10, ID: H5-20-CS4-1035, Description: 1668A-CS4-020, Vial: Tray1:7

	Target Analyte	#Hom	Total Area	Ion1 Area	Ion2 Area	Ra	Ra Fail=Y...	RT	RRT	RT LCL	RT UCL	Conc.	%Rec	Mod.Comment	Noise 1	Noise 2
75	Total HpCB-F5	10		5034599								7572029.550...			1585	
76	Total HpCB-F6	5		1196174								100242.84585			1312	
77	Total OcCB-F5	6		1137060								20623.51489			1008	
78	Total OcCB-F6	4		901888								172098.24458			960	
79	Total NoCB-F6	3		1374470								2964.02155			918	
80	Total DeCB-F7	1		855231								383.21115			424	
81	Total 13C-MoCB-F1	2		3046802								197.86436			2376	
82	Total 13C-DiCB-F1	3		2047454								199.38471			4391	
83	Total 13C-DiCB-F2	3		2003818								1884844.629...			7307	
84	Total 13C-TrCB-F1	1		507211								98.17105			45883	
85	Total 13C-TrCB-F3	4		2014218								1703.61220			23580	
86	Total 13C-TeCB-F2	1		589676								99.14443			6816	
87	Total 13C-TeCB-F3	3		367019								102.45641			6385	
88	Total 13C-TeCB-F4	8		734898								20935.84753			5164	
89	Total 13C-PeCB-F3	2		612668								414.89267			1201	
90	Total 13C-PeCB-F4	5		990473								301.46893			1987	
91	Total 13C-PeCB-F5	12		2073150								43292.65465			1924	
92	Total 13C-HxCB-F4	2		526070								2356.36023			1335	
93	Total 13C-HxCB-F5	14		1894554								618.96281			2628	
94	Total 13C-HpCB-F5	6		564163								13745.15283			1006	
95	Total 13C-HpCB-F6	6		293312								28817.96576			1049	
96	Total 13C-OcCB-F5	2		254208								1195.94733			732	
97	Total 13C-OcCB-F6	4		367520								205.08445			612	
98	Total 13C-NoCB-F6	2		270547								197.09431			574	
99	Total 13C-DeCB-F7	1		222359								99.39312			199	
100	Lockmass F1			0											603378	
101	Lockmass F2			0											354518	
102	Lockmass F3			0											513653	
103	Lockmass F4			0											403410	
104	Lockmass F5			0											133715	
105	Lockmass F6			0											104486	
106	Lockmass F7			0											31563	

Quantify Sample Summary Report **MassLynx MassLynx V4.1 SCN 901**

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Printed: Wednesday, April 28, 2021 10:50:51 Eastern Daylight Time

Name: 5-201202A08, Date: 02-Dec-2020, Time: 13:21:16, ID: H5-20-CS5-1035, Description: 1668A-CS5-020, Vial: Tray1:8

	Target Analyte	#Hom	Total Area	Ion1 Area	Ion2 Area	Ra	Ra Fail=Y...	RT	RRT	RT LCL	RT UCL	Conc.	%Rec	Mod.Comment	Noise 1	Noise 2
1	PCB-1		53062033	39484684	13577349	2.91	NO	8.95	1.00	8.92	8.99	1962.00207	98.1		4936	2942
2	PCB-3		52253674	39657708	12595966	3.15	NO	10.47	1.00	10.43	10.50	2093.34068	104.7		4936	2942
3	PCB-4		26172294	15704469	10467825	1.50	NO	10.63	1.00	10.60	10.67	2057.37200	102.9		4553	23992
4	PCB-15		45239784	27618920	17620864	1.57	NO	14.29	1.00	14.25	14.32	2163.14641	108.2		5196	5318
5	PCB-19		26157723	13373889	12783834	1.05	NO	12.62	1.00	12.59	12.66	2082.17838	104.1		3462	2874
6	PCB-37		31781307	16382398	15398909	1.06	NO	18.23	1.00	18.20	18.26	2142.56617	107.1		17580	16048
7	PCB-54		32912160	14404434	18507726	0.78	NO	14.47	1.00	14.44	14.51	2088.54665	104.4		1542	1473
8	PCB-81		24819179	10903253	13915926	0.78	NO	21.80	1.00	21.76	21.83	2155.46291	107.8		2690	2468
9	PCB-77		24270856	10705096	13565760	0.79	NO	22.10	1.00	22.07	22.14	2171.39575	108.6		2690	2468
10	PCB-104		27699705	16852242	10847463	1.55	NO	17.51	1.00	17.48	17.55	2132.88540	106.6		809	2218
11	PCB-123		19820906	12123029	7697877	1.57	NO	23.08	1.00	23.05	23.11	2145.73663	107.3		6940	5215
12	PCB-118		21999993	13434328	8565665	1.57	NO	23.25	1.00	23.22	23.28	2137.35849	106.9		6940	5215
13	PCB-114		20904567	12736644	8167923	1.56	NO	23.55	1.00	23.52	23.58	2056.67735	102.8		6940	5215
14	PCB-105		20111057	12258207	7852850	1.56	NO	23.91	1.00	23.88	23.95	2161.00866	108.1		6940	5215
15	PCB-126		19925894	12214425	7711469	1.58	NO	25.50	1.00	25.46	25.53	2219.62753	111.0		6940	5215
16	PCB-155		25240307	14063621	11176686	1.26	NO	20.49	1.00	20.46	20.53	2137.31595	106.9		1891	3350
17	PCB-167		17527869	9624452	7903417	1.22	NO	26.39	1.00	26.36	26.42	2113.67376	105.7		3712	3527
18	PCB-156/157		36812073	20242110	16569963	1.22	NO	27.02	1.00	26.99	27.05	4234.77169	105.9		3712	3527
19	PCB-169		16032746	8843189	7189557	1.23	NO	28.67	1.00	28.64	28.71	2155.47198	107.8		3712	3527
20	PCB-188		18124106	9122389	9001717	1.01	NO	23.49	1.00	23.46	23.52	2161.12966	108.1		7094	9053
21	PCB-189		14415284	7369939	7045345	1.05	NO	29.95	1.00	29.91	29.98	2131.29666	106.6		8747	6902
22	PCB-202		15467116	7227635	8239481	0.88	NO	26.27	1.00	26.24	26.30	2087.09772	104.4		1039	1288
23	PCB-205		11008037	5234738	5773299	0.91	NO	31.34	1.00	31.31	31.37	2101.84129	105.1		1264	1976
24	PCB-208		11869659	5287736	6581924	0.80	NO	29.68	1.00	29.65	29.71	2066.95695	103.3		1555	1437
25	PCB-206		7985779	3557539	4428240	0.80	NO	32.40	1.00	32.37	32.43	2069.28527	103.5		1555	1437
26	PCB-209		9807754	5315961	4491793	1.18	NO	33.53	1.00	33.49	33.56	1932.03460	96.6		488	522
27	13C-PCB-31		1239834	639706	600127	1.07	NO	15.82	0.87	15.79	15.85	81.78201	81.8		29752	10431
28	13C-PCB-95		452731	280686	172045	1.63	NO	19.12	1.09	19.08	19.15	77.21829	77.2		1778	1442
29	13C-PCB-153		564389	320565	243824	1.31	NO	24.17	1.18	24.13	24.20	79.76825	79.8		1706	1612
30	13C-PCB-28		1276734	655947	620787	1.06	NO	15.99	0.94	15.95	16.02	103.71324	103.7		29752	10431
31	13C-PCB-111		577330	357952	219378	1.63	NO	22.01	1.07	21.98	22.04	102.33273	102.3		1778	1442
32	13C-PCB-178		404626	206139	198487	1.04	NO	25.05	1.01	25.02	25.08	99.78157	99.8		1367	1110
33	13C-PCB-1		2364742	1777991	586751	3.03	NO	8.94	0.75	8.91	8.97	124.14001	124.1		1589	8873
34	13C-PCB-3		2087720	1563892	523828	2.99	NO	10.47	0.88	10.43	10.50	123.29325	123.3		1589	8873
35	13C-PCB-4		1428457	875018	553440	1.58	NO	10.62	0.89	10.59	10.65	119.84853	119.8		4677	1525
36	13C-PCB-15		1906345	1183990	722355	1.64	NO	14.28	1.20	14.24	14.31	128.14631	128.1		10002	3217
37	13C-PCB-19		1080125	547882	532244	1.03	NO	12.61	1.06	12.58	12.64	121.22302	121.2		38016	33562

Name: 5-201202A08, Date: 02-Dec-2020, Time: 13:21:16, ID: H5-20-CS5-1035, Description: 1668A-CS5-020, Vial: Tray1:8

	Target Analyte	#Hom	Total Area	Ion1 Area	Ion2 Area	Ra	Ra Fail=Y...	RT	RRT	RT LCL	RT UCL	Conc.	%Rec	Mod.Comment	Noise 1	Noise 2
38	13C-PCB-37		1331770	688105	643665	1.07	NO	18.22	1.07	18.19	18.25	131.54827	131.5		29752	10431
39	13C-PCB-54		1475638	651930	823709	0.79	NO	14.46	0.85	14.43	14.50	123.89813	123.9		7980	4513
40	13C-PCB-81		950127	427335	522792	0.82	NO	21.79	1.06	21.76	21.82	123.69556	123.7		5935	3442
41	13C-PCB-77		962362	435070	527292	0.83	NO	22.08	1.07	22.05	22.12	123.16539	123.2		5935	3442
42	13C-PCB-104		1126377	683004	443373	1.54	NO	17.50	1.03	17.47	17.54	116.89834	116.9		980	1121
43	13C-PCB-123		838393	512496	325897	1.57	NO	23.08	1.12	23.05	23.11	124.62861	124.6		1644	1540
44	13C-PCB-118		879019	542458	336561	1.61	NO	23.25	1.13	23.22	23.28	124.47493	124.5		1644	1540
45	13C-PCB-114		826562	512452	314110	1.63	NO	23.55	0.95	23.52	23.58	128.39158	128.4		1644	1540
46	13C-PCB-105		772082	477383	294699	1.62	NO	23.90	0.96	23.87	23.93	121.19199	121.2		1644	1540
47	13C-PCB-126		740813	456627	284186	1.61	NO	25.48	1.03	25.45	25.52	128.18285	128.2		1644	1540
48	13C-PCB-155		1116605	617645	498960	1.24	NO	20.48	0.99	20.45	20.52	121.98926	122.0		1245	873
49	13C-PCB-167		751430	424140	327290	1.30	NO	26.38	1.06	26.35	26.41	122.25792	122.3		1706	1612
50	13C-PCB-156/157		1522626	862447	660179	1.31	NO	27.01	1.09	26.97	27.04	256.87799	128.4		1706	1612
51	13C-PCB-169		681418	385412	296006	1.30	NO	28.66	1.15	28.63	28.70	122.36975	122.4		1706	1612
52	13C-PCB-188		888961	448605	440356	1.02	NO	23.48	0.94	23.44	23.51	123.22174	123.2		1367	1110
53	13C-PCB-189		670263	344479	325784	1.06	NO	29.93	0.96	29.90	29.96	118.97509	119.0		1221	1206
54	13C-PCB-202		687711	325497	362213	0.90	NO	26.26	1.06	26.22	26.29	123.34186	123.3		519	976
55	13C-PCB-205		572061	268294	303767	0.88	NO	31.31	1.01	31.28	31.35	113.83589	113.8		1019	725
56	13C-PCB-208		470209	209041	261167	0.80	NO	29.67	0.96	29.63	29.70	117.32957	117.3		475	606
57	13C-PCB-206		318787	141896	176891	0.80	NO	32.39	1.04	32.35	32.42	113.55076	113.6		475	606
58	13C-PCB-209		501467	273693	227774	1.20	NO	33.50	1.08	33.46	33.53	111.95354	112.0		212	201
59	13C-PCB-9		1771553	1080905	690648	1.57	NO	11.88	0.48	11.85	11.92	88.52773	88.5		4677	1525
60	13C-PCB-52		698102	315732	382370	0.83	NO	16.98	0.68	16.94	17.01	88.30326	88.3		6459	3371
61	13C-PCB-101		495892	305663	190229	1.61	NO	20.62	0.83	20.59	20.66	94.47904	94.5		1778	1442
62	13C-PCB-138		484914	273752	211162	1.30	NO	24.86	0.00	24.82	24.89	97.02427	97.0		1706	1612
63	13C-PCB-194		337569	158277	179292	0.88	NO	31.03	1.25	31.00	31.07	100.94078	100.9		1019	725
64	Total MoCB-F1	7		80541930								1574252.804...			4936	
65	Total DiCB-F1	2		16711990								1901054.600...			4553	
66	Total DiCB-F2	5		27923313								440208.85591			5196	
67	Total TrCB-F1	4		13376999								6902.02939			1185	
68	Total TrCB-F3	6		56837751								70639553.41...			5917	
69	Total TeCB-F2	2		14405143								3447.26875			1542	
70	Total TeCB-F4	10		21799977								369980.22802			2690	
71	Total PeCB-F3	4		16855541								7685.58107			809	
72	Total PeCB-F5	13		63756848								1371722.109...			6940	
73	Total HxCB-F4	5		14073669								19156.41690			1891	
74	Total HxCB-F5	20		40758086								3389316.564...			3712	

Quantify Sample Summary Report **MassLynx MassLynx V4.1 SCN 901**

Dataset: C:\MassLynx\PCB.PRO\Results\Local\2020-ARCHIVE\2020-December\5-201202A-ICAL.qld

Last Altered: Wednesday, December 02, 2020 16:02:34 Eastern Standard Time
Printed: Wednesday, April 28, 2021 10:50:51 Eastern Daylight Time

Name: 5-201202A08, Date: 02-Dec-2020, Time: 13:21:16, ID: H5-20-CS5-1035, Description: 1668A-CS5-020, Vial: Tray1:8

	Target Analyte	#Hom	Total Area	Ion1 Area	Ion2 Area	Ra	Ra Fail=Y...	RT	RRT	RT LCL	RT UCL	Conc.	%Rec	Mod.Comment	Noise 1	Noise 2
75	Total HpCB-F5	16		32934099								50108239.52...			4339	
76	Total HpCB-F6	7		7689790								610810.60225			3637	
77	Total OcCB-F5	11		7290532								123874.54540			1039	
78	Total OcCB-F6	6		5705525								1068746.619...			1264	
79	Total NoCB-F6	3		8850746								14204.29455			1555	
80	Total DeCB-F7	1		5315961								1932.03460			488	
81	Total 13C-MoCB-F1	4		3359045								22634.60822			1589	
82	Total 13C-DiCB-F1	5		1961572								209.33894			4677	
83	Total 13C-DiCB-F2	3		2089608								1730415.877...			10002	
84	Total 13C-TrCB-F1	2		548630								6792.37203			38016	
85	Total 13C-TrCB-F3	7		2000810								18656.23420			29752	
86	Total 13C-TeCB-F2	1		651930								123.89813			7980	
87	Total 13C-TeCB-F3	4		325861								91.03567			6459	
88	Total 13C-TeCB-F4	6		872661								14501.24215			5935	
89	Total 13C-PeCB-F3	4		684746								1943.25477			980	
90	Total 13C-PeCB-F4	6		947894								277.58155			1778	
91	Total 13C-PeCB-F5	14		2537476								46609.84556			1644	
92	Total 13C-HxCB-F4	3		620185								2652.18619			1245	
93	Total 13C-HxCB-F5	11		2285555								710.29576			1706	
94	Total 13C-HpCB-F5	10		667323								20697.81269			1367	
95	Total 13C-HpCB-F6	5		363312								30347.45250			1221	
96	Total 13C-OcCB-F5	6		327790								4113.66172			519	
97	Total 13C-OcCB-F6	5		439027								230.50605			1019	
98	Total 13C-NoCB-F6	2		350938								230.88034			475	
99	Total 13C-DeCB-F7	1		273693								111.95354			212	
100	Lockmass F1			0											499419	
101	Lockmass F2			0											344061	
102	Lockmass F3			0											459287	
103	Lockmass F4			0											327346	
104	Lockmass F5			0											108938	
105	Lockmass F6			0											98603	
106	Lockmass F7			0											29545	

Quantify Audit Report MassLynx MassLynx V4.1 SCN 901

Dataset: C:\MassLynx\PCB.PRO\Results\Local\2020-ARCHIVE\2020-December\5-201202A-ICAL.qld

Last Altered: Wednesday, December 02, 2020 16:02:34 Eastern Standard Time
Printed: Wednesday, April 28, 2021 10:50:51 Eastern Daylight Time

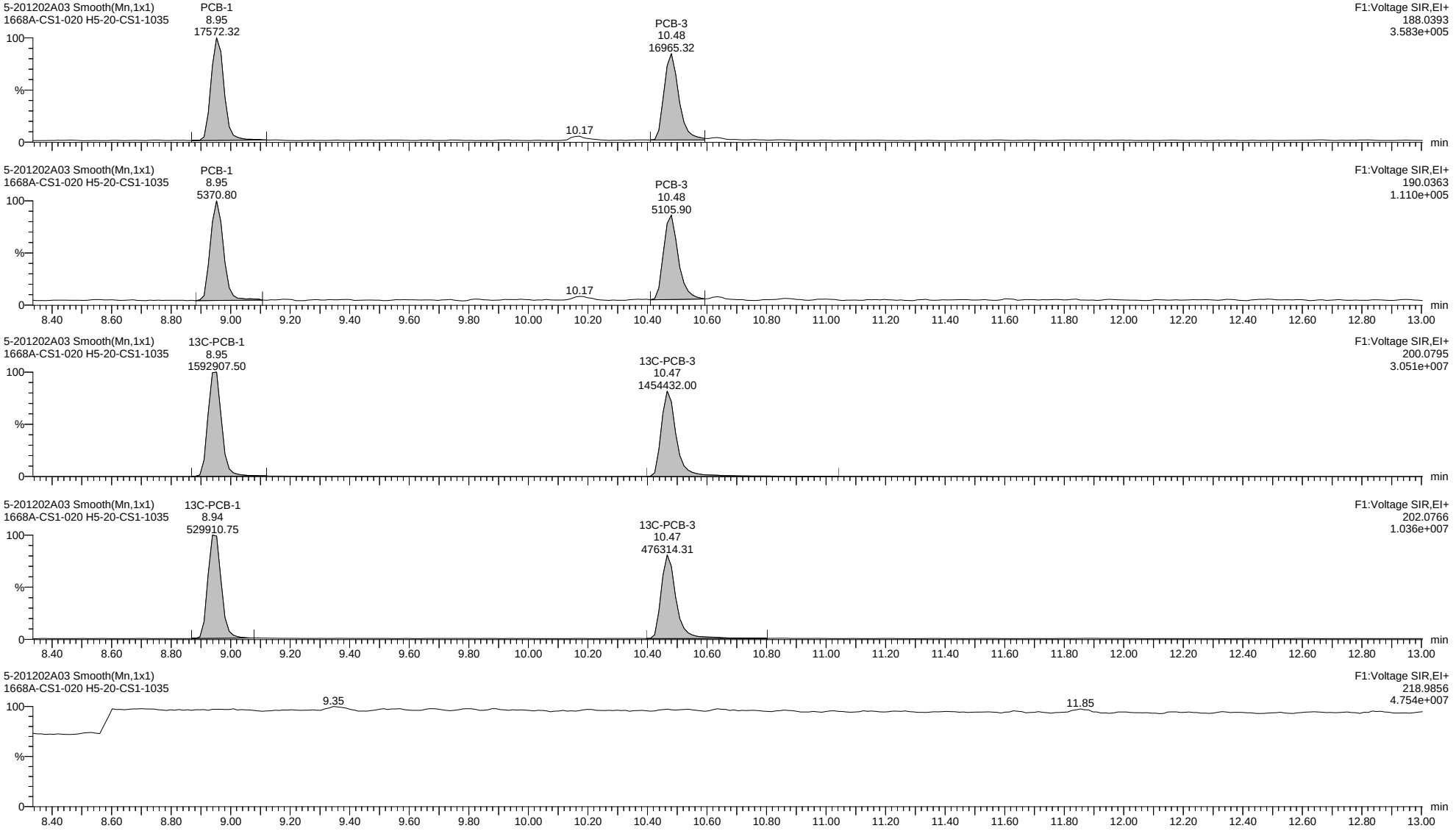
Date	Time	Event	Details	Comments
02-Dec-20	15:50:01	Process Extract		
02-Dec-20	15:50:01	Process Integrate		
02-Dec-20	15:50:01	Process Calibrate		
02-Dec-20	15:50:01	Process Quantify		
02-Dec-20	15:50:06	Dataset Created		
02-Dec-20	15:51:11	Pre modification peak	Sample:5-201202A03, Compound:DiCB-F1, RT:10.634	
02-Dec-20	15:51:11	Peak modified	Sample:5-201202A03, Compound:DiCB-F1, RT:10.634	SJ201202MB
02-Dec-20	15:51:36	Pre modification peak	Sample:5-201202A03, Compound:DiCB-F1, RT:10.634	
02-Dec-20	15:51:36	Peak modified	Sample:5-201202A03, Compound:DiCB-F1, RT:10.634	SJ201202MB
02-Dec-20	15:52:32	Pre modification peak	Sample:5-201202A03, Compound:TrCB-F3, RT:18.239	
02-Dec-20	15:52:32	Peak modified	Sample:5-201202A03, Compound:TrCB-F3, RT:18.239	SJ201202MS
02-Dec-20	15:53:12	Pre modification peak	Sample:5-201202A03, Compound:PeCB-F5, RT:23.913	
02-Dec-20	15:53:12	Peak modified	Sample:5-201202A03, Compound:PeCB-F5, RT:23.913	SJ201202MB
02-Dec-20	15:53:12	Pre modification peak	Sample:5-201202A03, Compound:PeCB-F5, RT:23.080	
02-Dec-20	15:53:12	Peak modified	Sample:5-201202A03, Compound:PeCB-F5, RT:23.080	SJ201202MB
02-Dec-20	15:54:15	Pre modification peak	Sample:5-201202A03, Compound:NoCB-F6, RT:29.667	
02-Dec-20	15:54:15	Peak modified	Sample:5-201202A03, Compound:NoCB-F6, RT:29.667	SJ201202MB
02-Dec-20	15:54:15	Pre modification peak	Sample:5-201202A03, Compound:NoCB-F6, RT:29.667	
02-Dec-20	15:54:15	Peak modified	Sample:5-201202A03, Compound:NoCB-F6, RT:29.667	SJ201202MB
02-Dec-20	15:54:38	Peak modified	Sample:5-201202A03, Compound:NoCB-F6, RT:29.667	SJ201202MB
02-Dec-20	15:56:40	Dataset Saved	Saved to 'C:\MassLynx\PCB.PRO\Results\Local\2020-Decem...	
02-Dec-20	16:00:29	Pre modification peak	Sample:5-201202A03, Compound:TeCB-F4, RT:22.112	
02-Dec-20	16:00:29	Peak modified	Sample:5-201202A03, Compound:TeCB-F4, RT:22.112	SJ201202MB
02-Dec-20	16:00:29	Pre modification peak	Sample:5-201202A03, Compound:TeCB-F4, RT:21.807	
02-Dec-20	16:00:29	Peak modified	Sample:5-201202A03, Compound:TeCB-F4, RT:21.807	SJ201202MB
02-Dec-20	16:02:31	Pre modification peak	Sample:5-201202A02, Compound:TeCB-F4, RT:22.131	
02-Dec-20	16:02:31	Peak modified	Sample:5-201202A02, Compound:TeCB-F4, RT:22.131	SJ201202MB
02-Dec-20	16:02:31	Pre modification peak	Sample:5-201202A02, Compound:TeCB-F4, RT:21.826	
02-Dec-20	16:02:31	Peak modified	Sample:5-201202A02, Compound:TeCB-F4, RT:21.826	SJ201202MB
02-Dec-20	16:04:28	Calibration Saved	Saved to 'C:\MassLynx\PCB.PRO\CurveDB\5-201202A-ICAL....	
02-Dec-20	16:05:55	Dataset Saved	Saved to 'C:\MassLynx\PCB.PRO\Results\Local\2020-Decem...	

Dataset: C:\MassLynx\PCB.PRO\Results\Local\2020-ARCHIVE\2020-December\5-201202A-ICAL.qld

Last Altered: Wednesday, December 02, 2020 16:02:34 Eastern Standard Time
Printed: Wednesday, April 28, 2021 10:50:51 Eastern Daylight Time

Method: C:\MassLynx\PCB.PRO\MethDB\1668-OCTYL-1-ICAL-201030B.mdb 07 Feb 2020 11:57:21
Calibration: C:\MassLynx\PCB.PRO\CurveDB\5-201202A-ICAL.cdb 02 Dec 2020 15:02:34

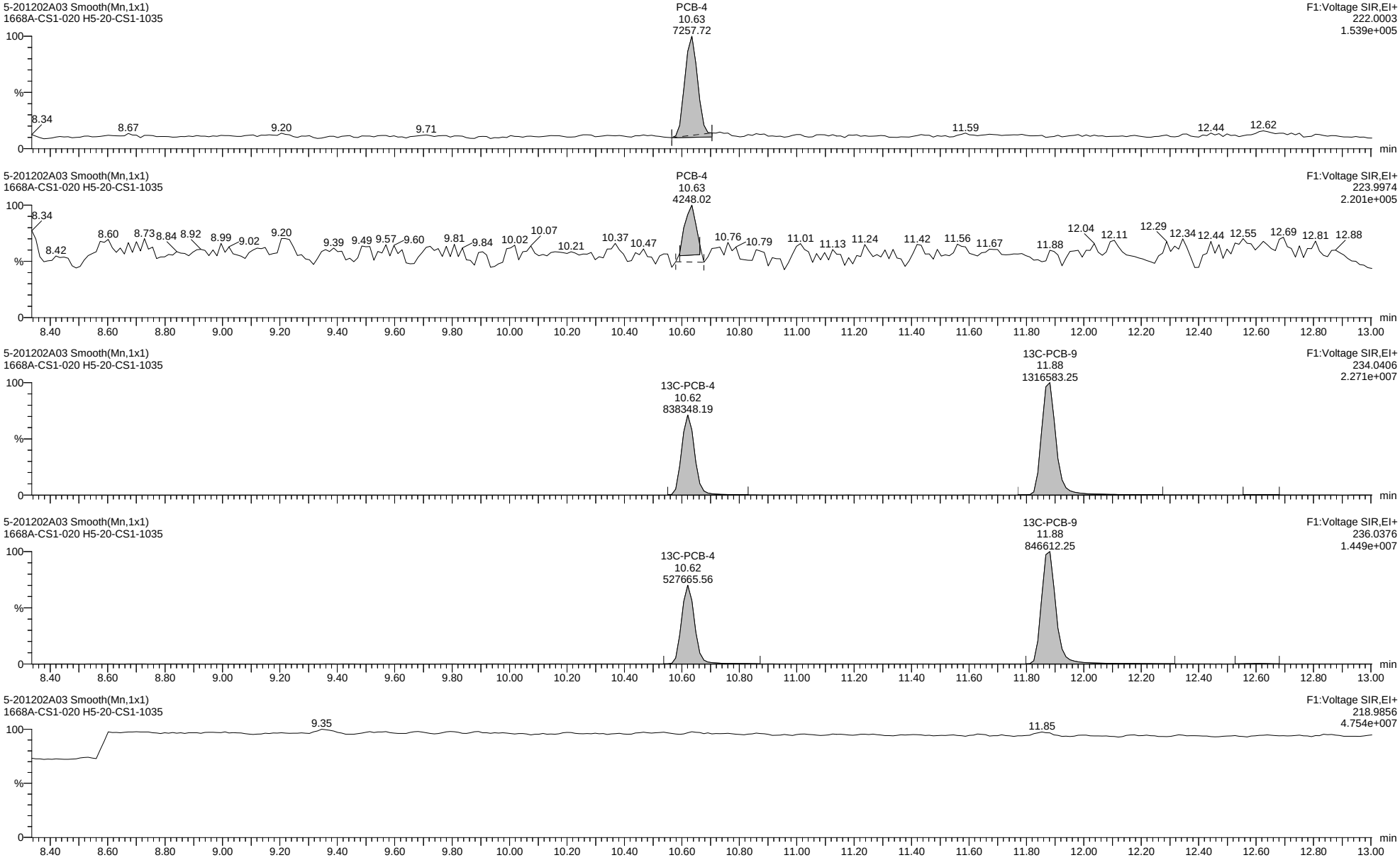
Name: 5-201202A03, Date: 02-Dec-2020, Time: 11:14:48, ID: H5-20-CS1-1035, Description: 1668A-CS1-020, Vial: Tray1:5



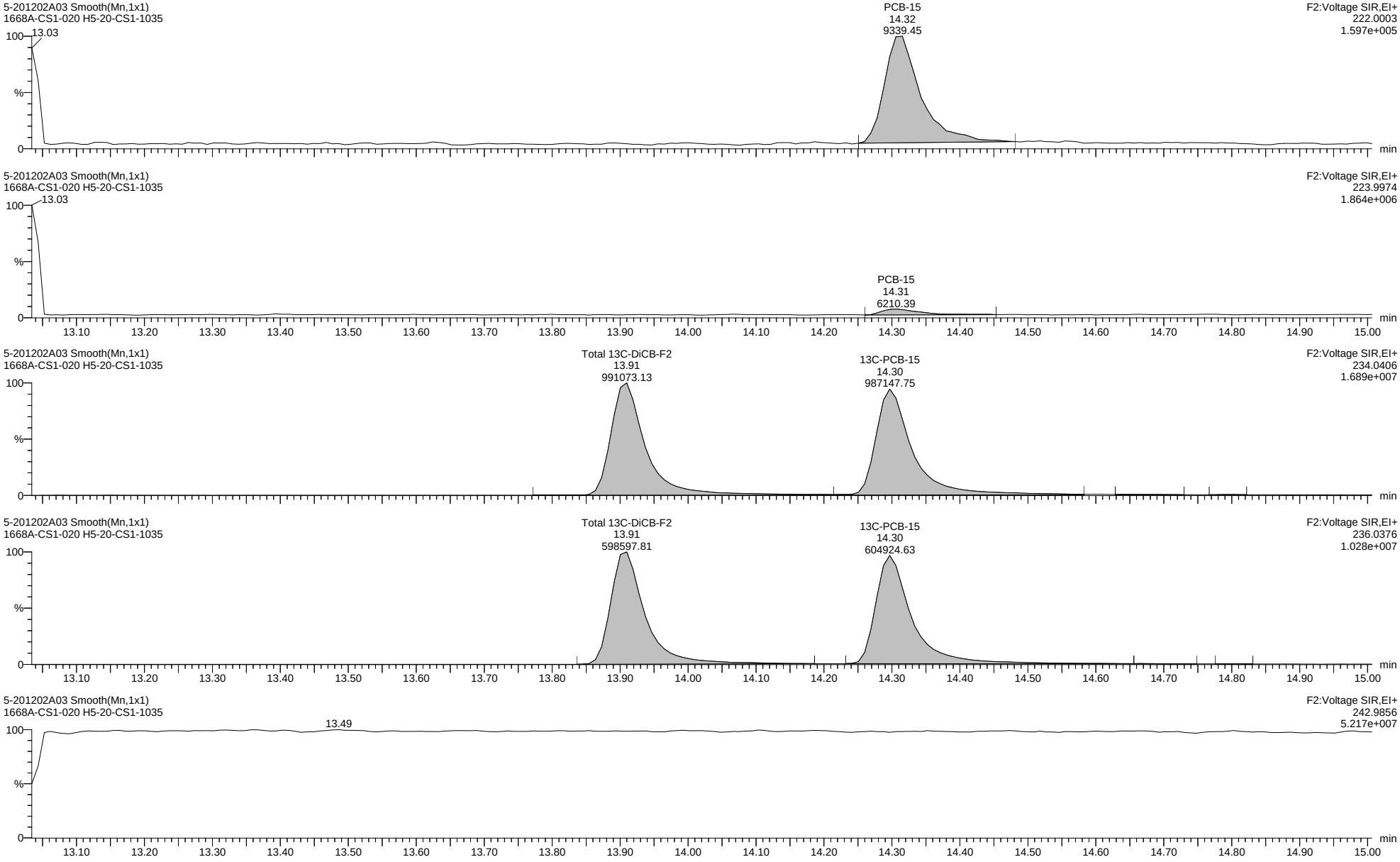
Dataset: C:\MassLynx\PCB.PRO\Results\Local\2020-ARCHIVE\2020-December\5-201202A-ICAL.qld

Last Altered: Wednesday, December 02, 2020 16:02:34 Eastern Standard Time
Printed: Wednesday, April 28, 2021 10:50:51 Eastern Daylight Time

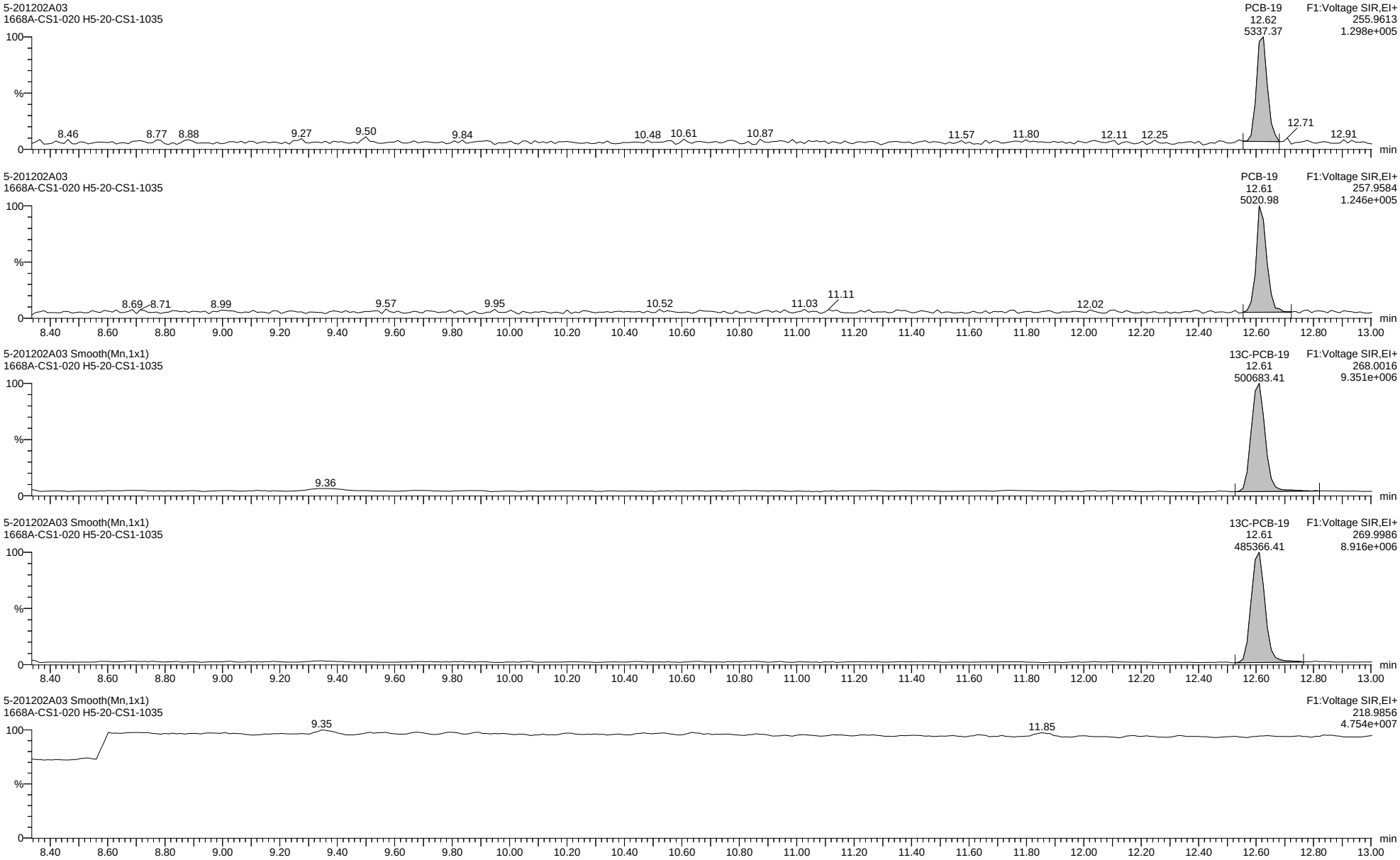
Name: 5-201202A03, Date: 02-Dec-2020, Time: 11:14:48, ID: H5-20-CS1-1035, Description: 1668A-CS1-020, Vial: Tray1:5



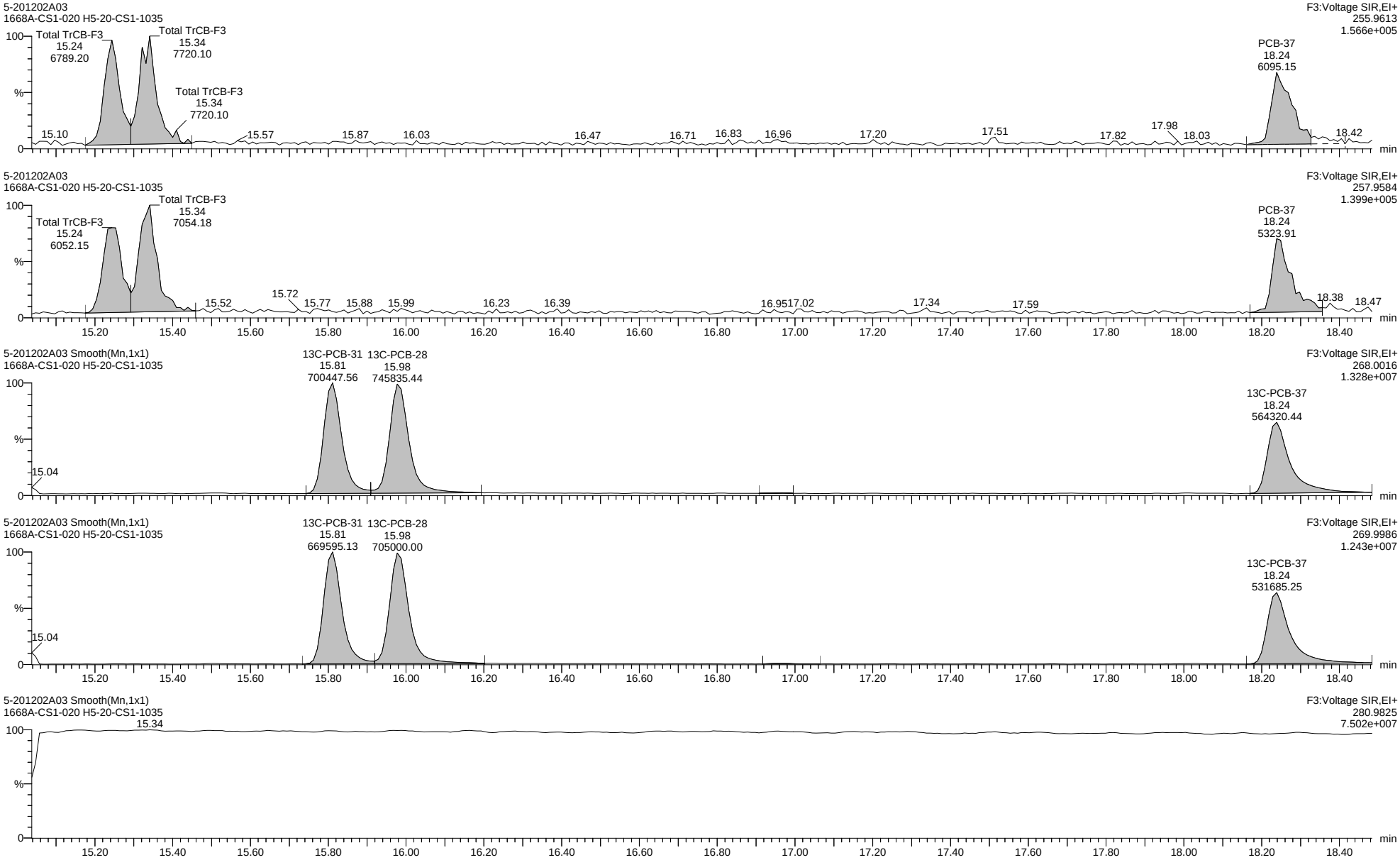
Name: 5-201202A03, Date: 02-Dec-2020, Time: 11:14:48, ID: H5-20-CS1-1035, Description: 1668A-CS1-020, Vial: Tray1:5



Name: 5-201202A03, Date: 02-Dec-2020, Time: 11:14:48, ID: H5-20-CS1-1035, Description: 1668A-CS1-020, Vial: Tray1:5



Name: 5-201202A03, Date: 02-Dec-2020, Time: 11:14:48, ID: H5-20-CS1-1035, Description: 1668A-CS1-020, Vial: Tray1:5



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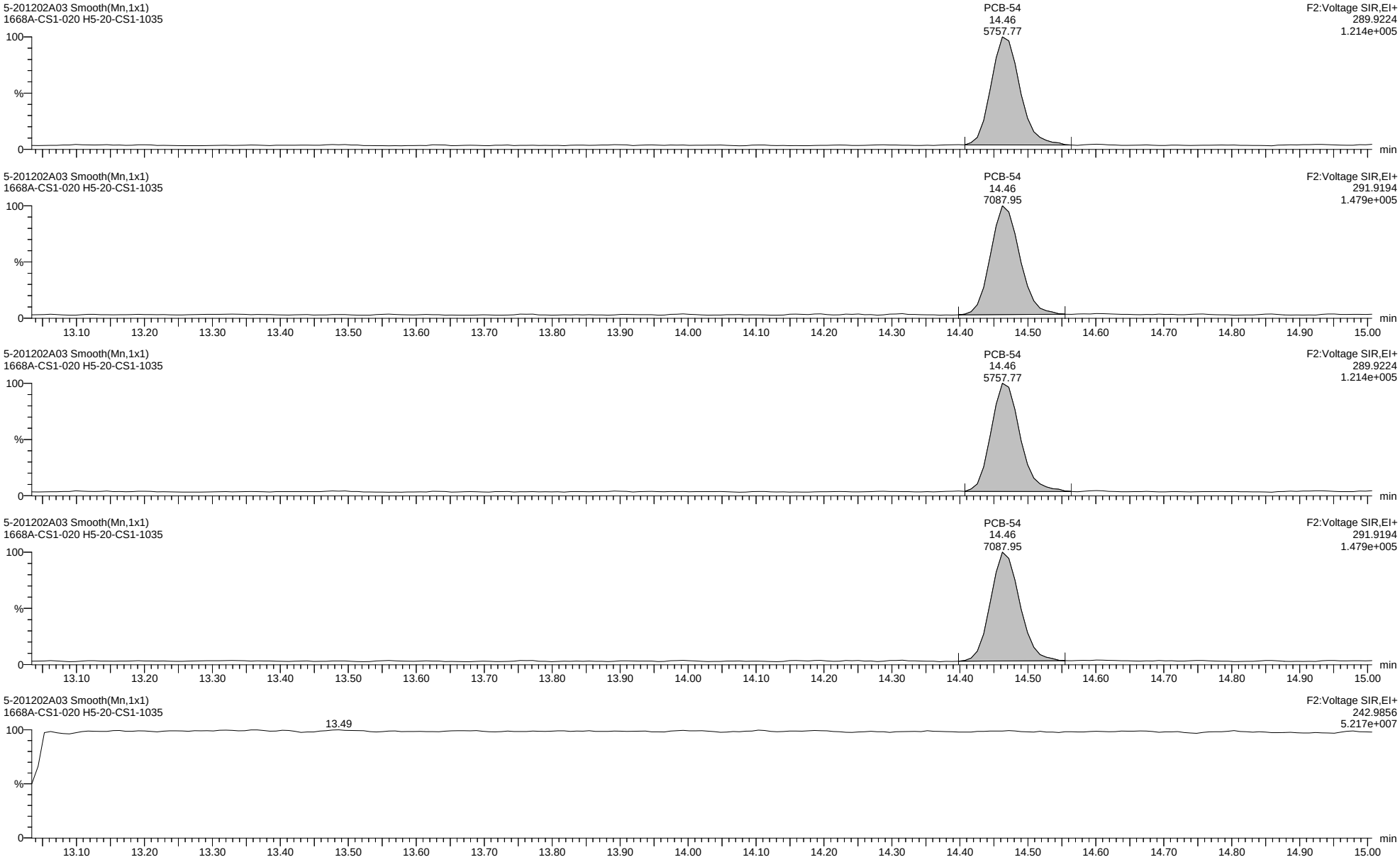
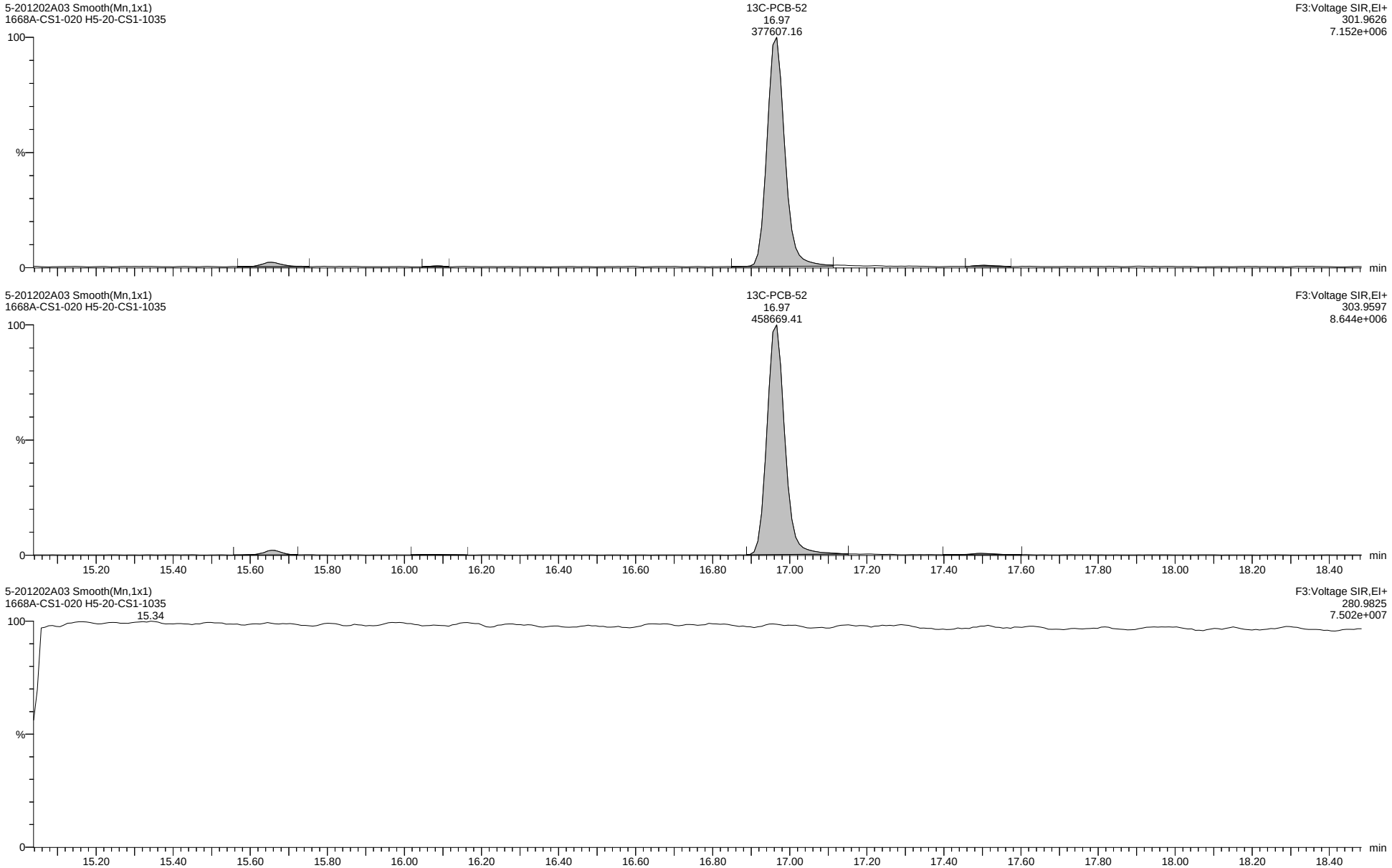


Name: 5-201202A03, Date: 02-Dec-2020, Time: 11:14:48, ID: H5-20-CS1-1035, Description: 1668A-CS1-020, Vial: Tray1:5



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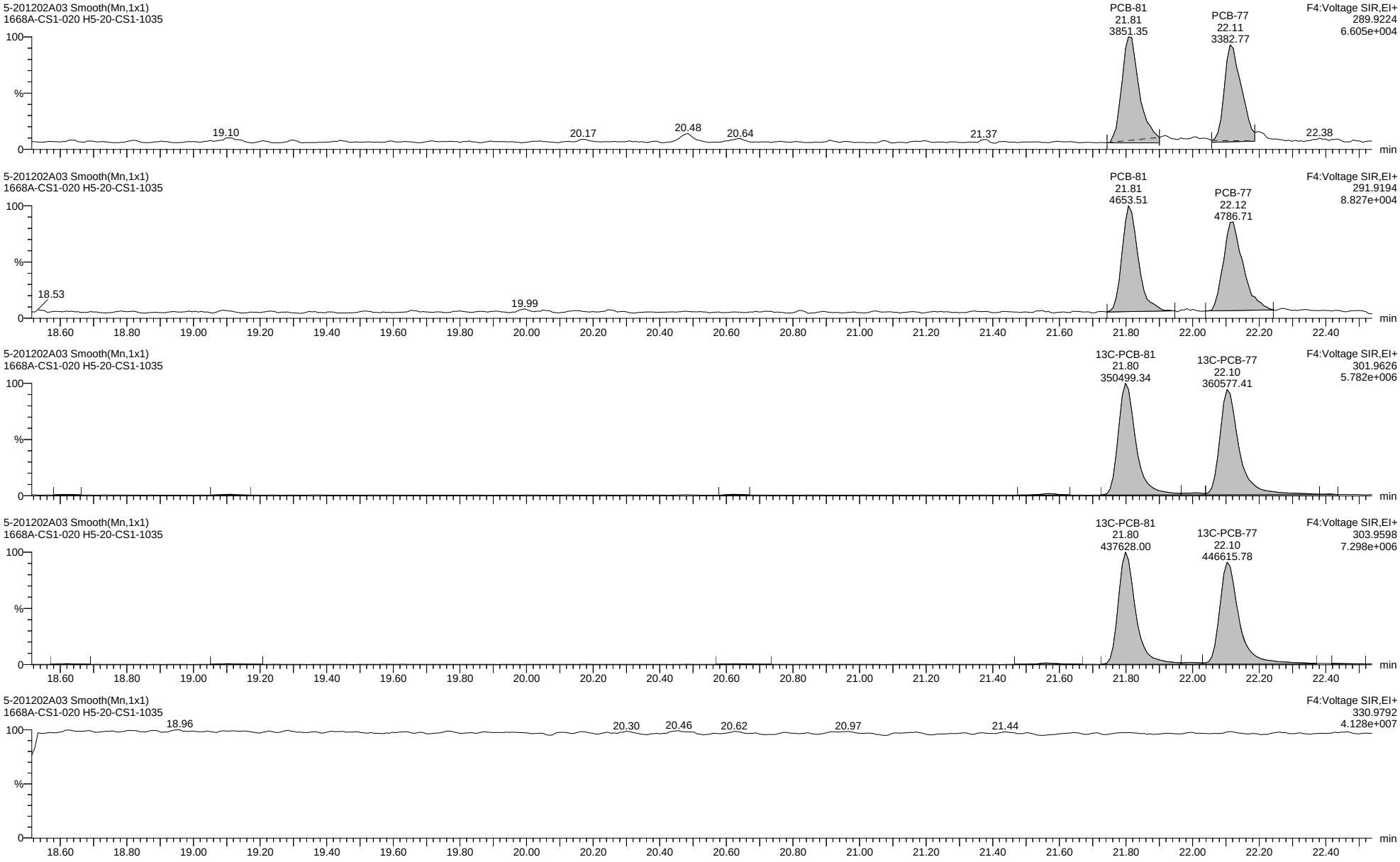

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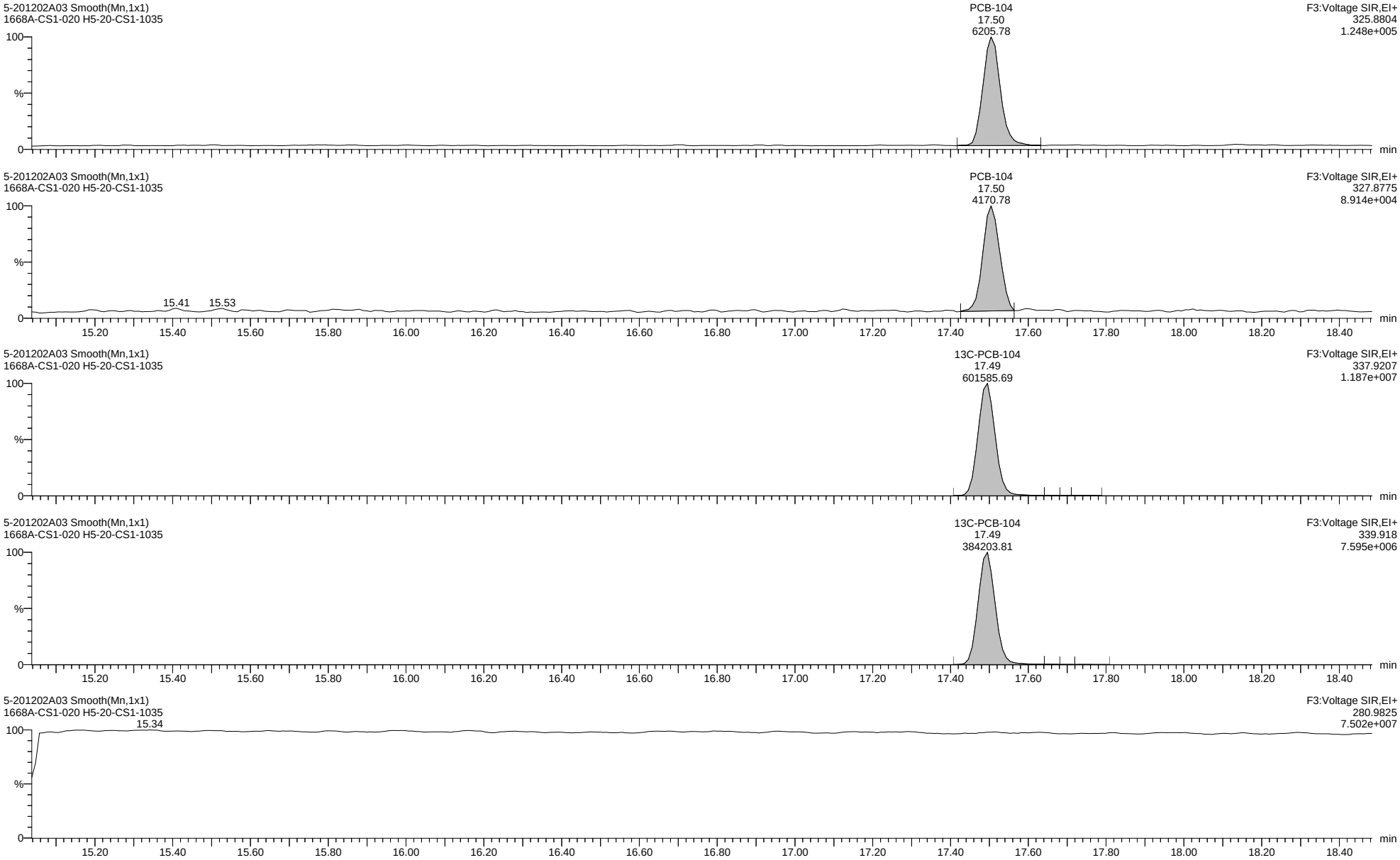

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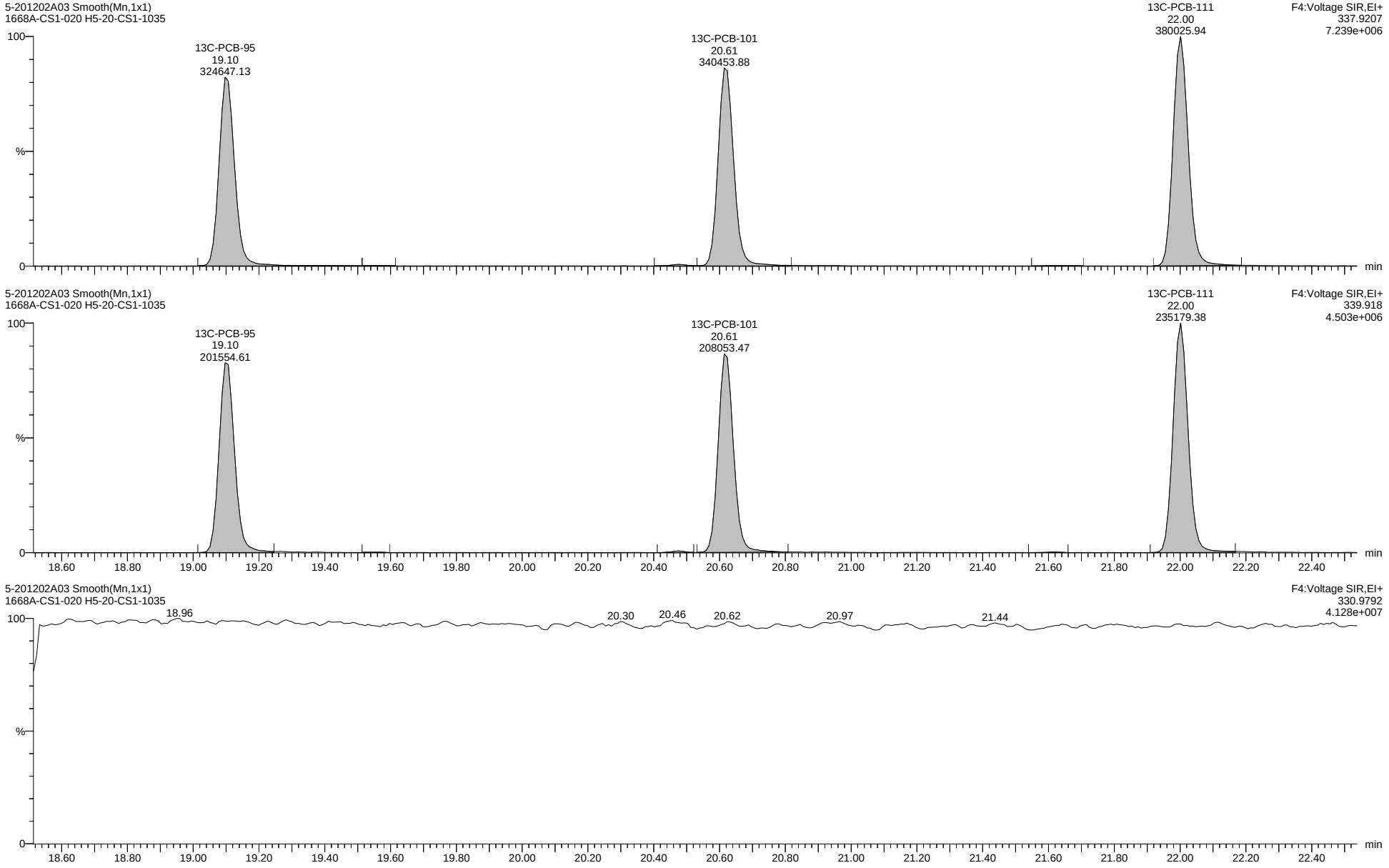

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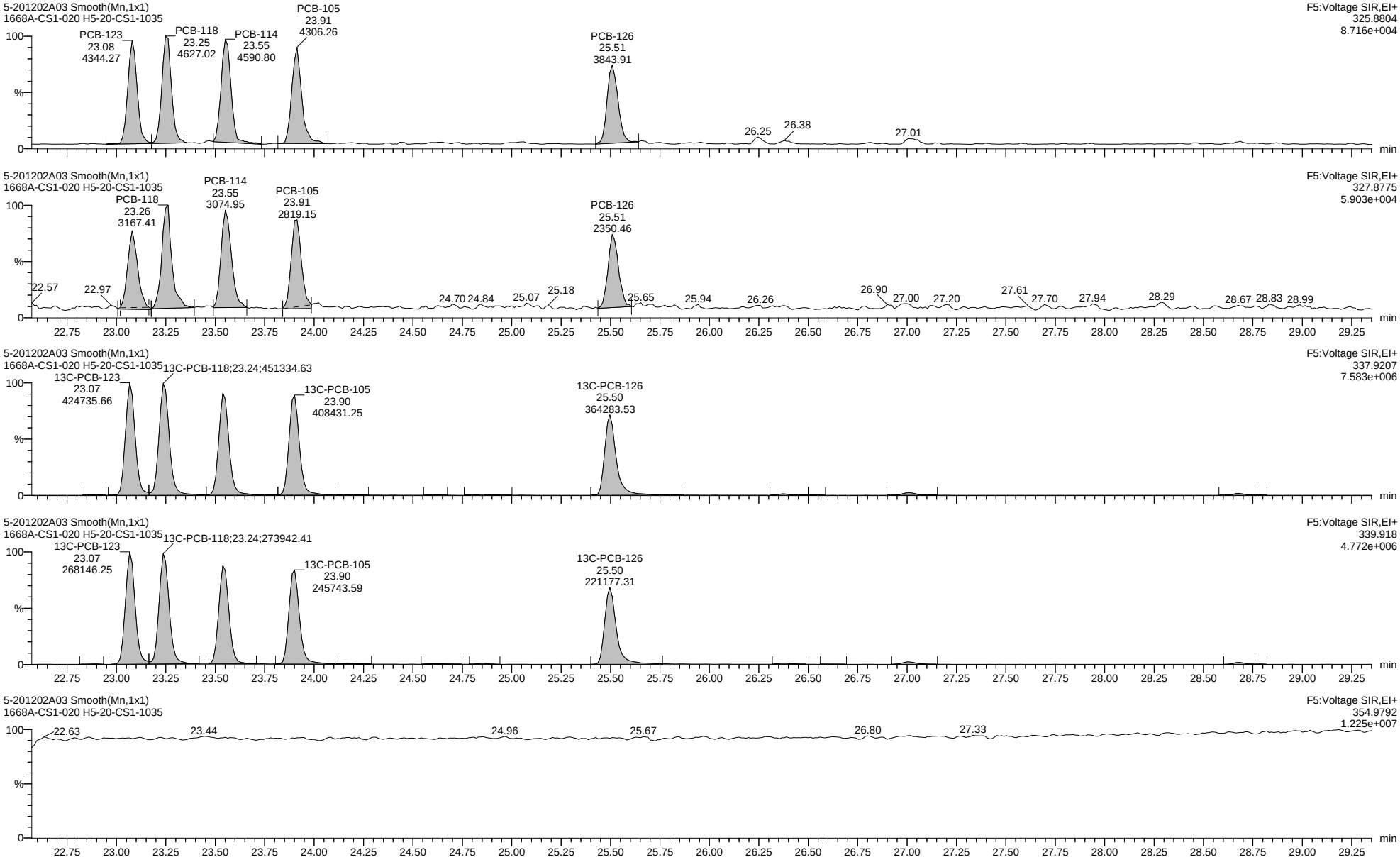

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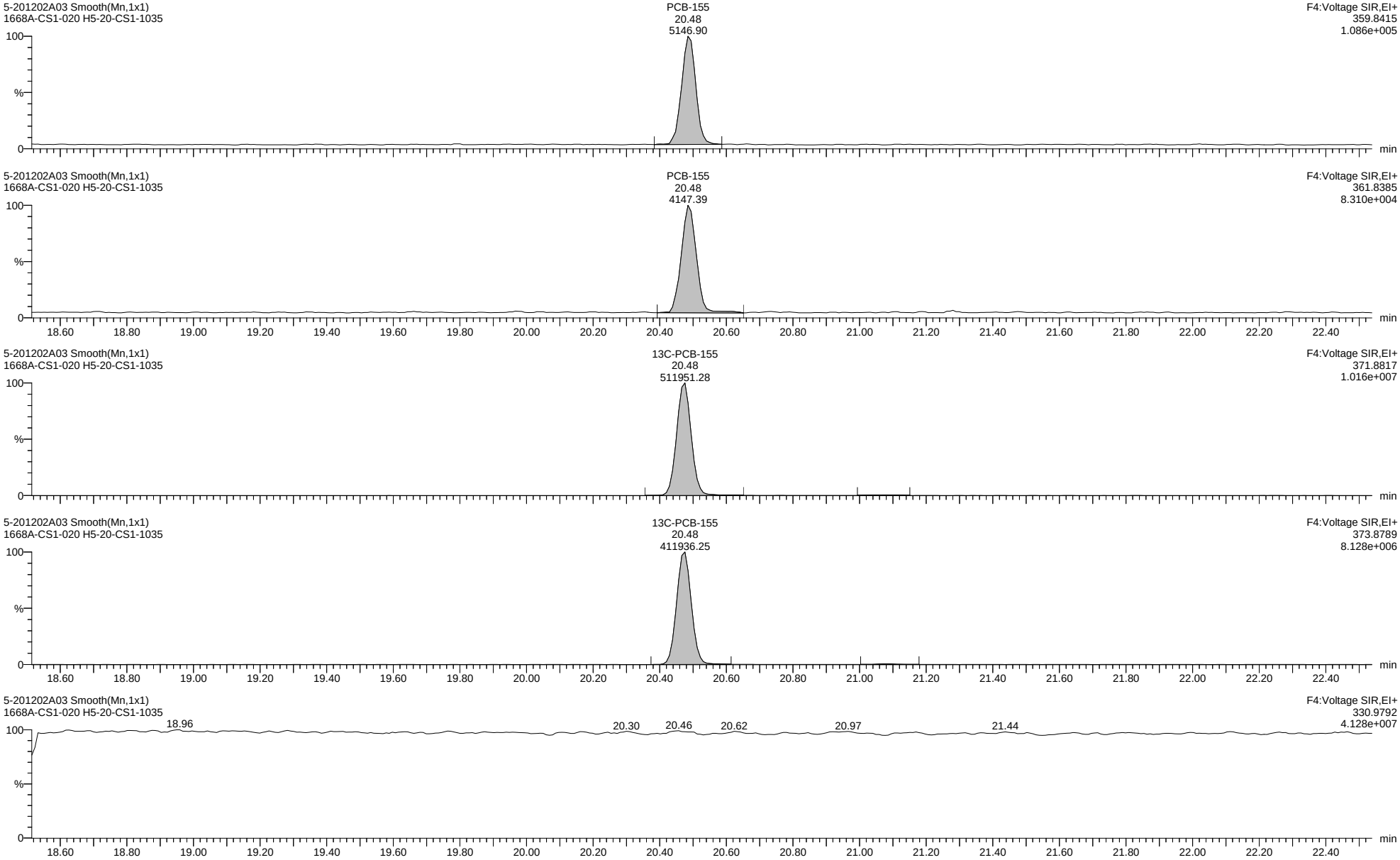

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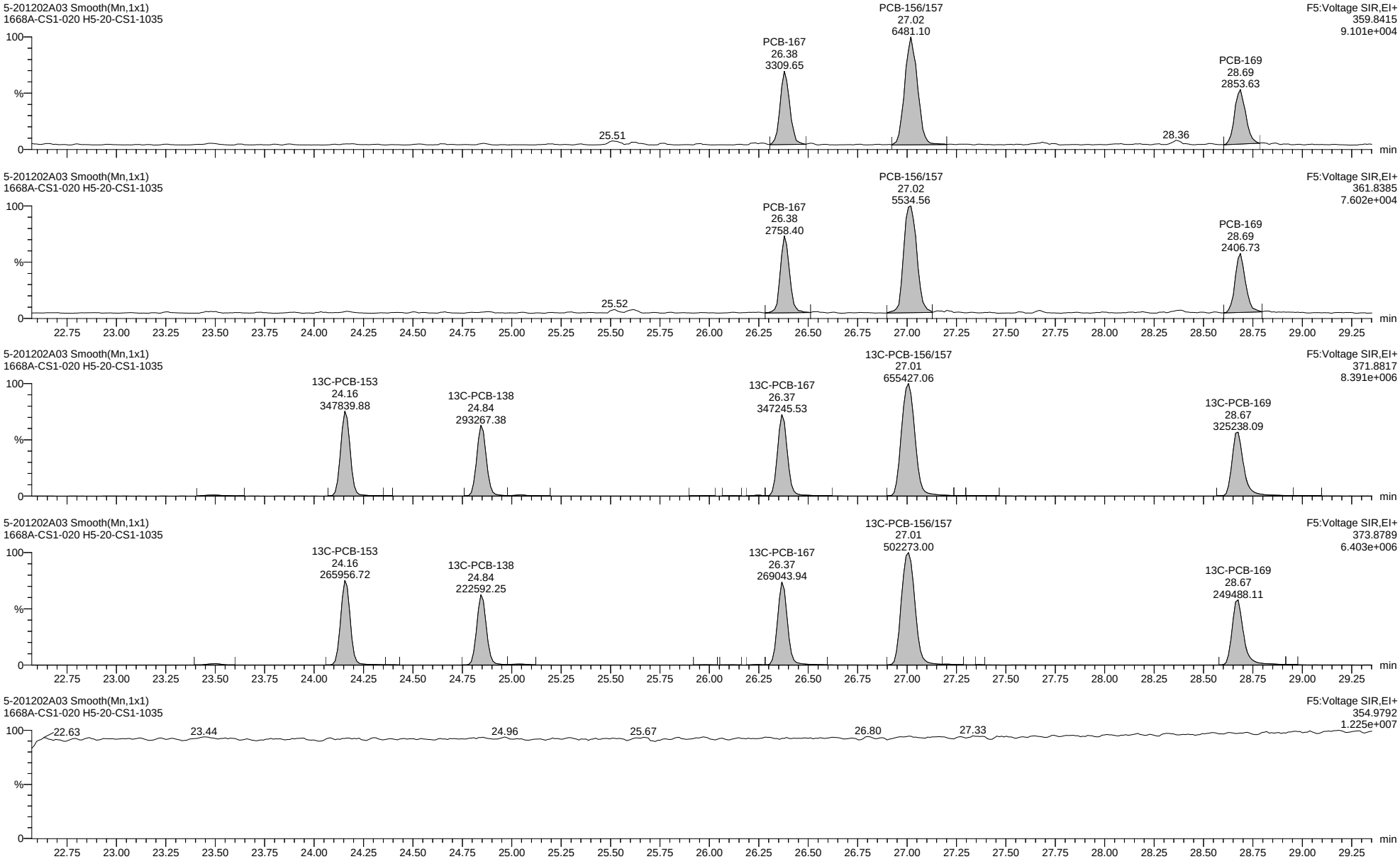

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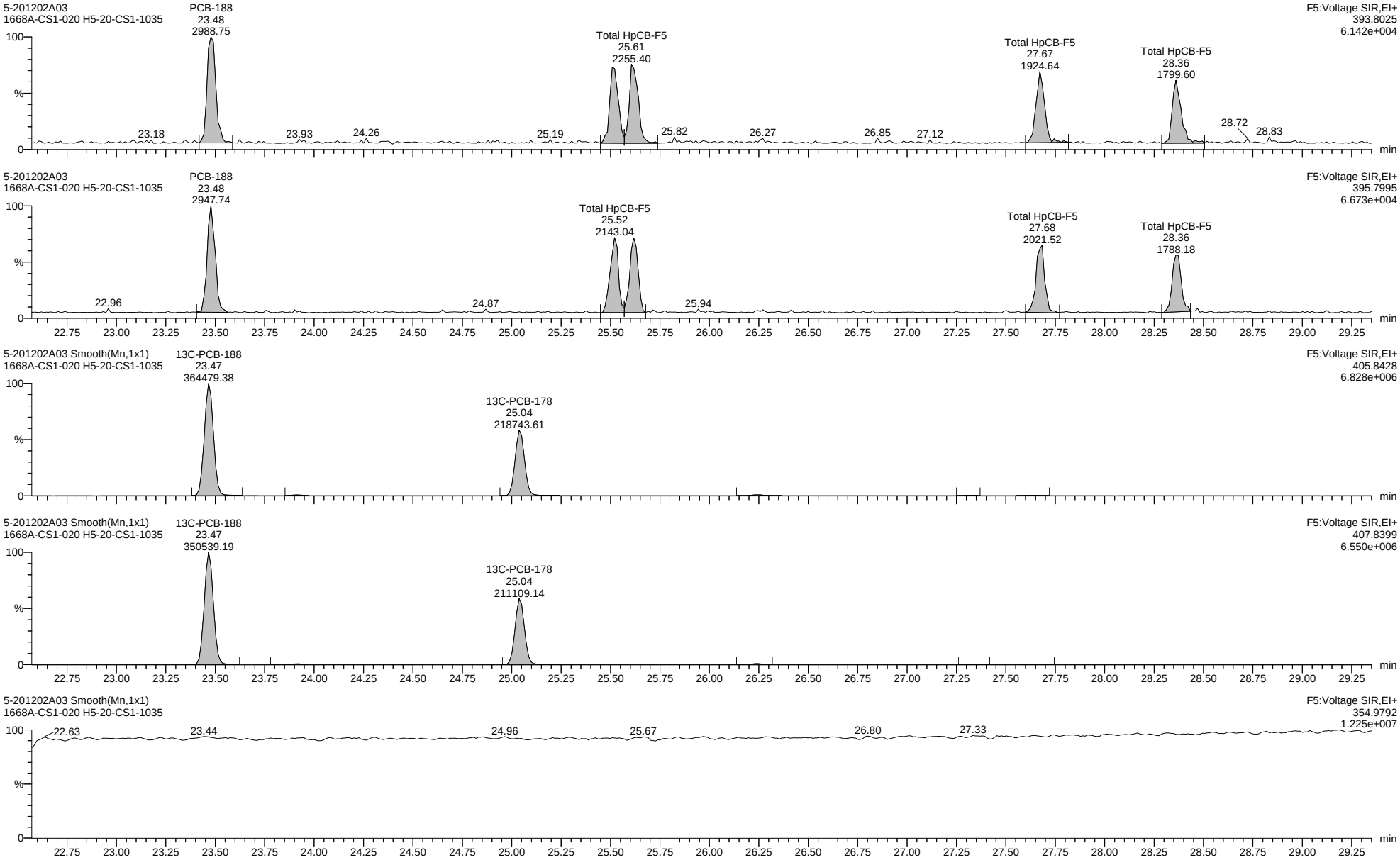

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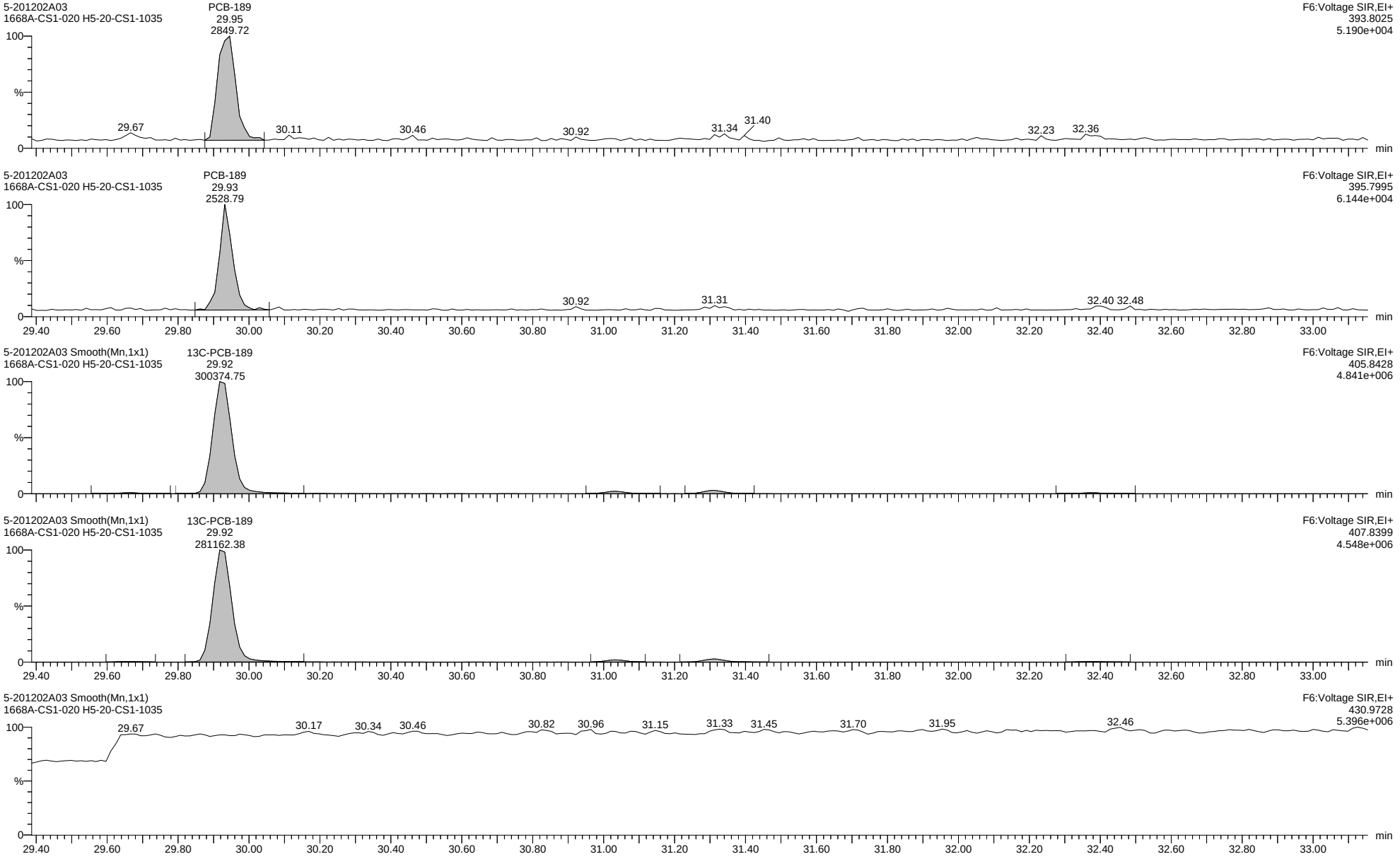

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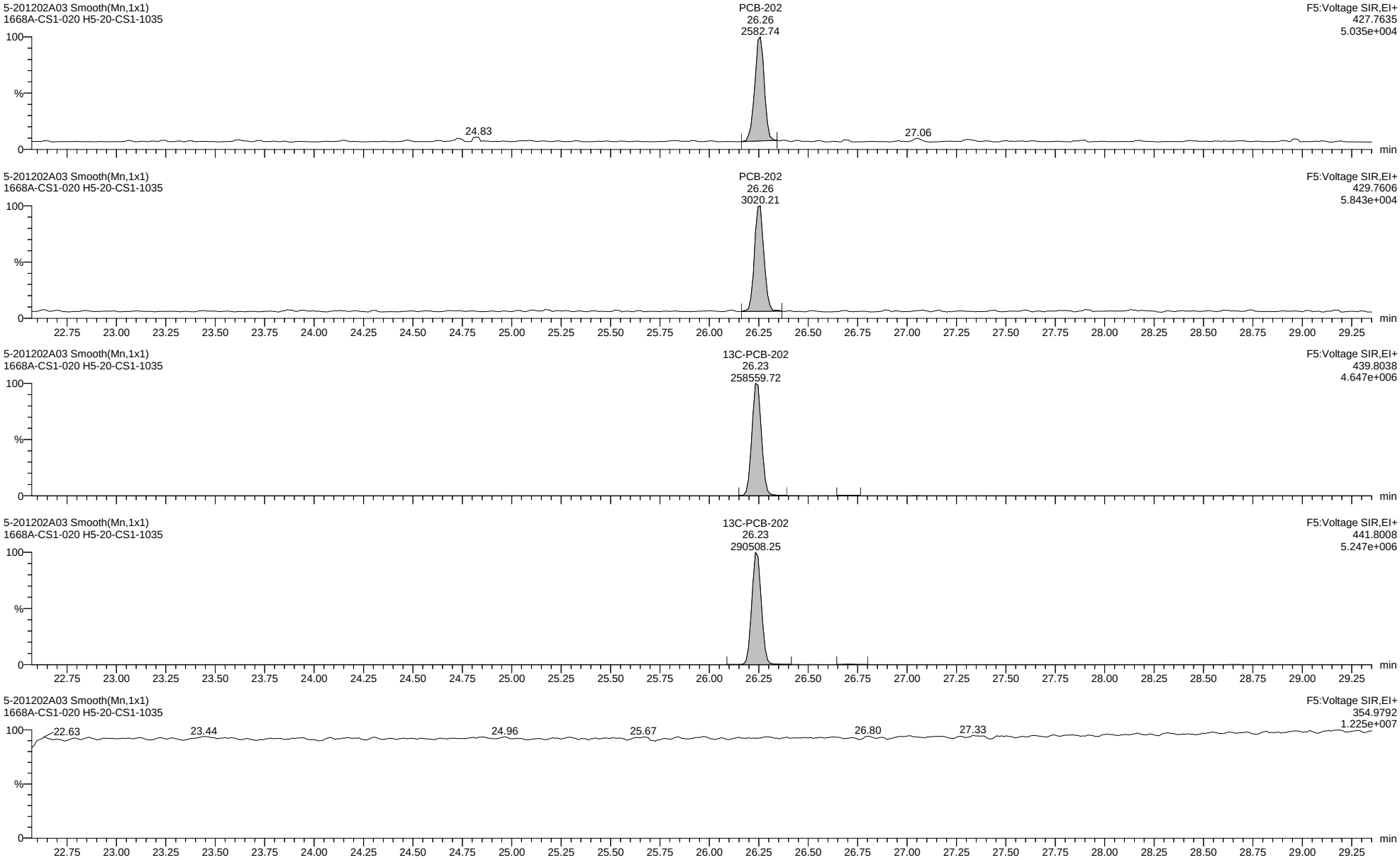

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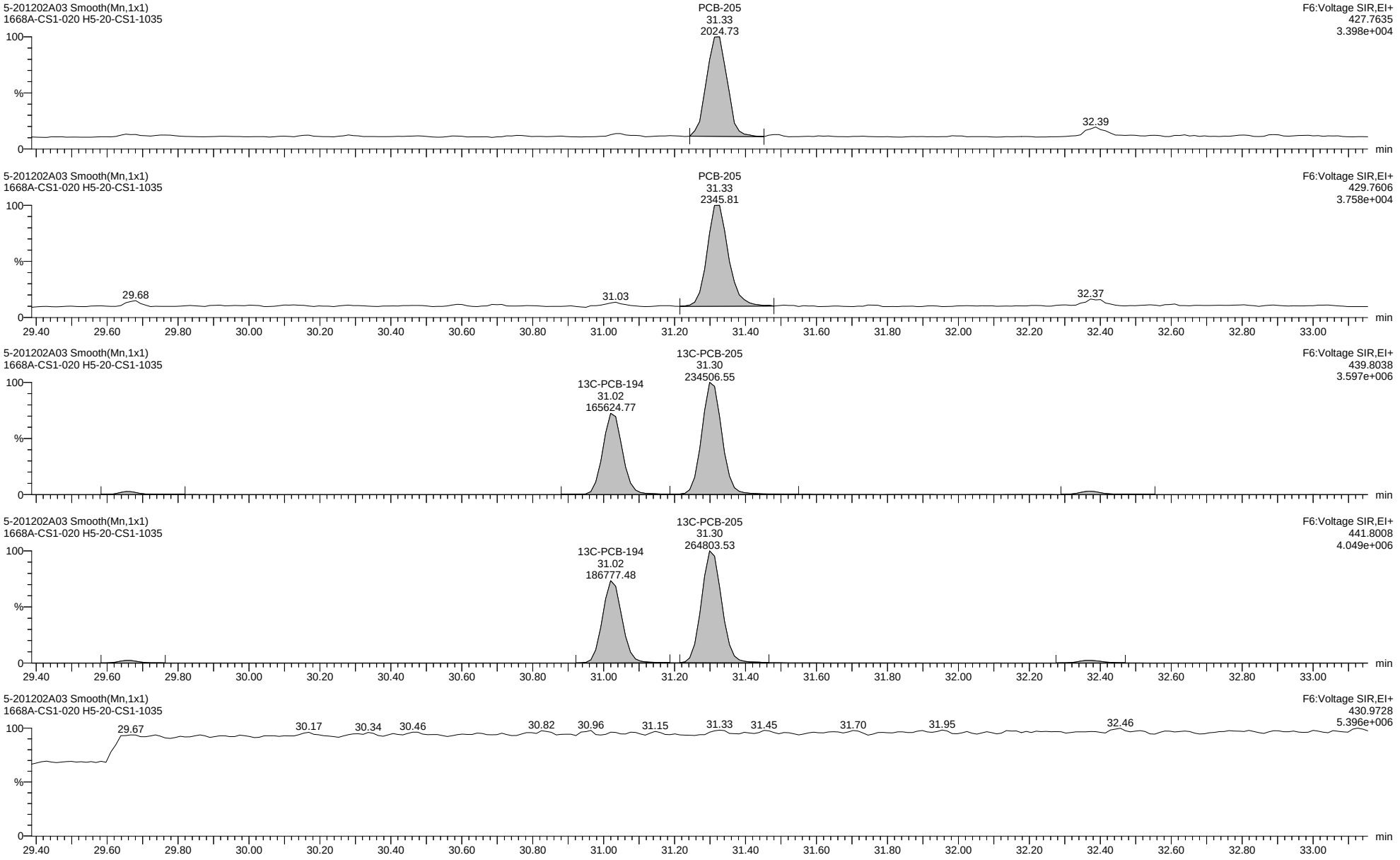

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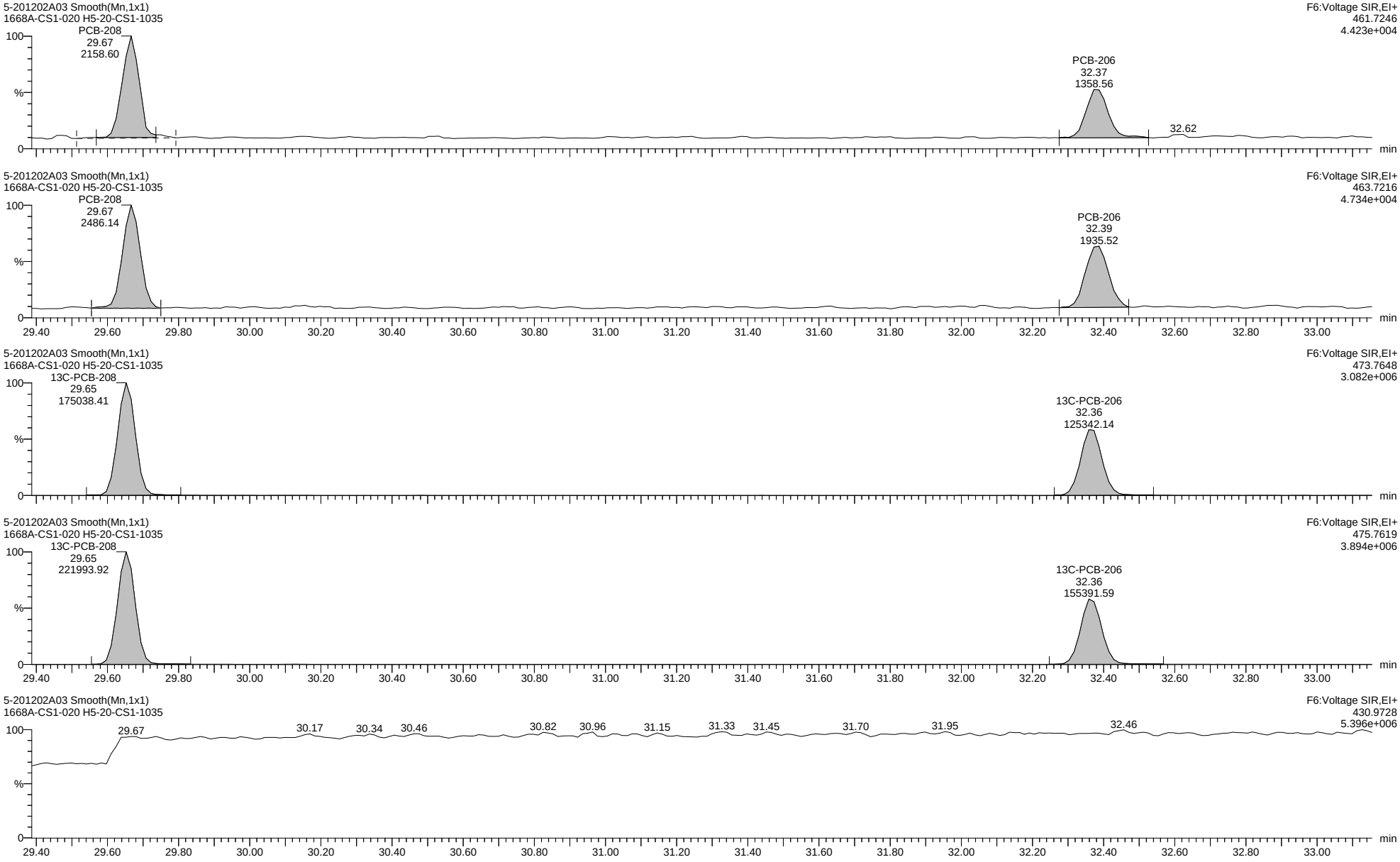

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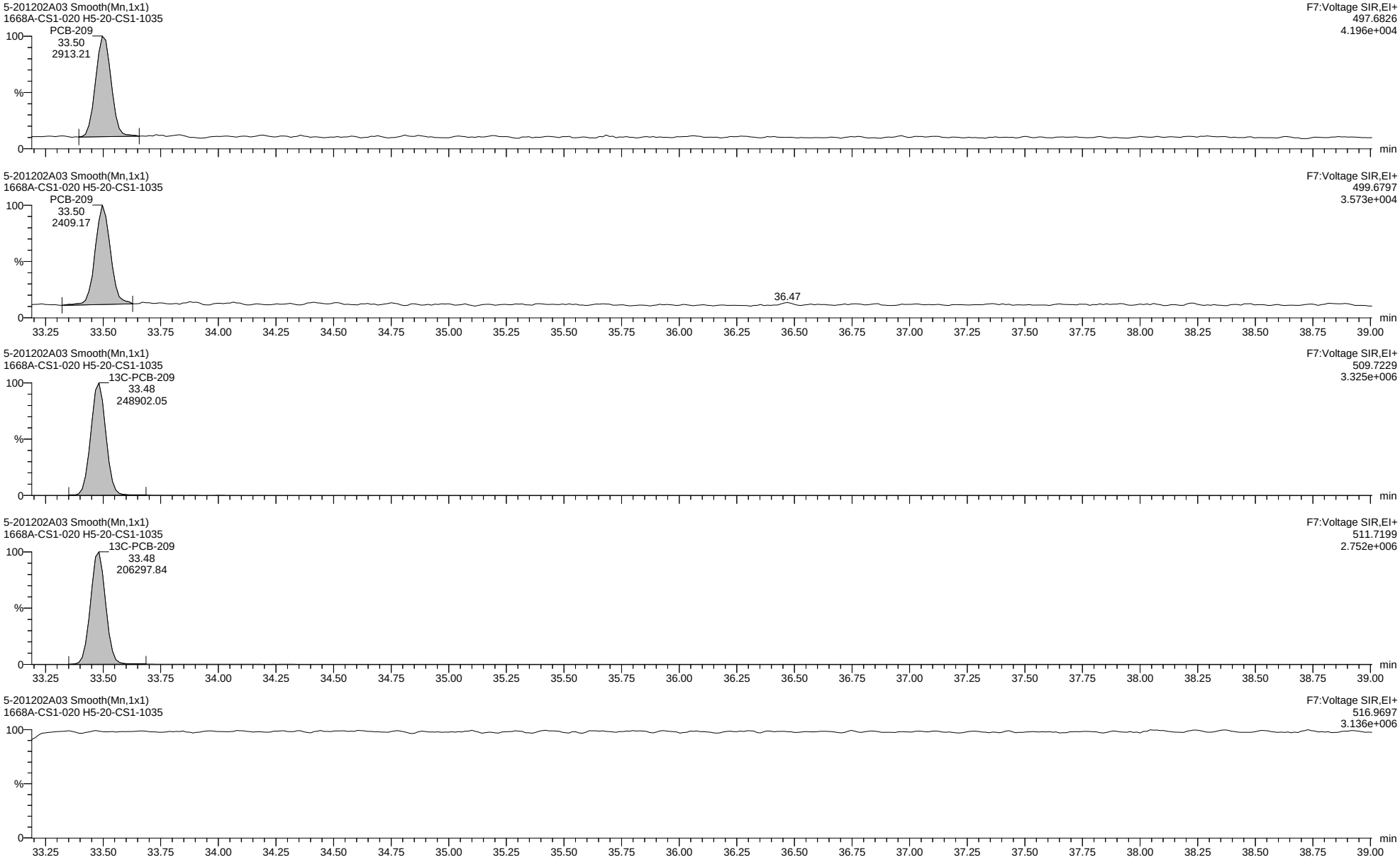

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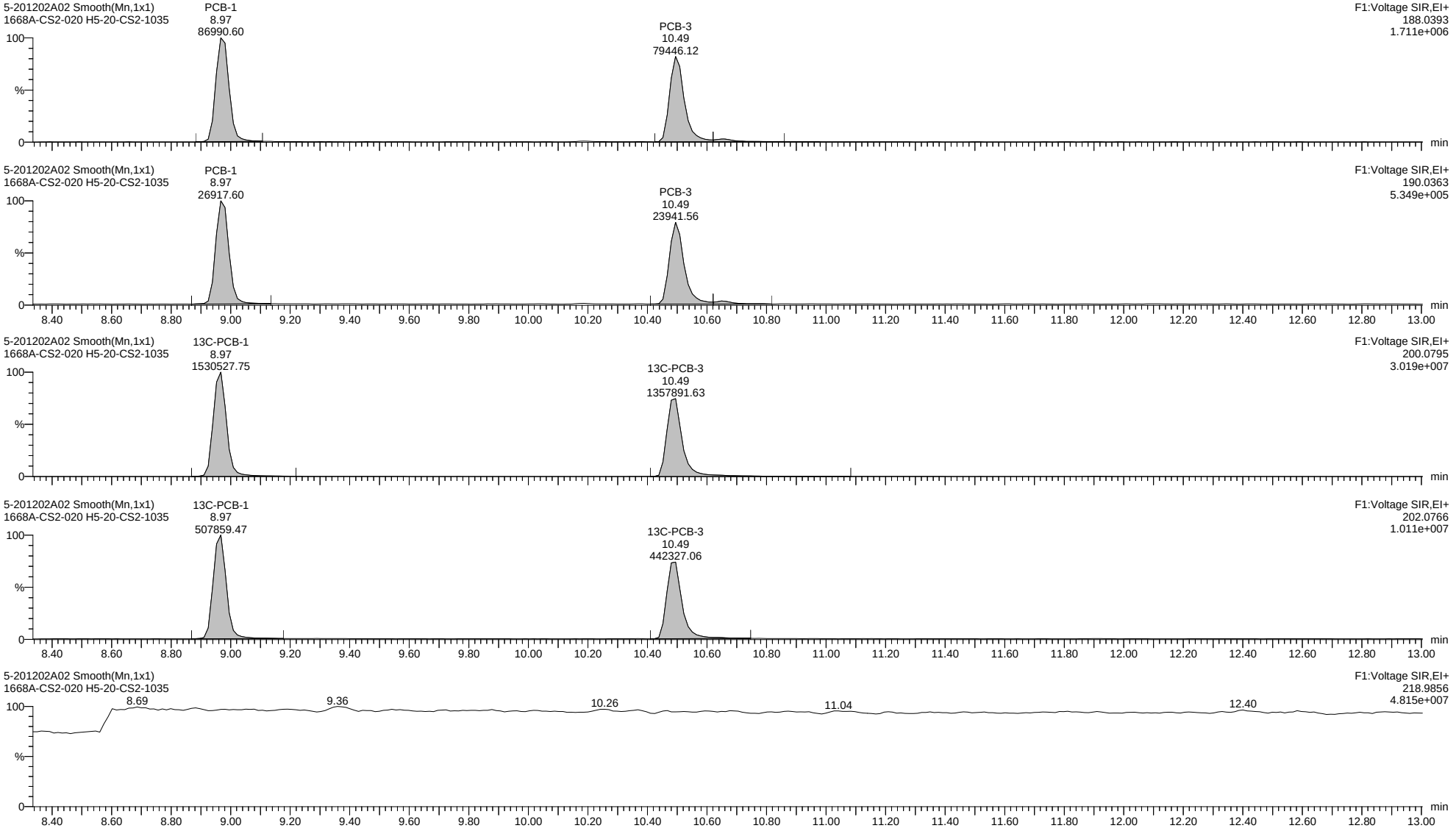
Name: 5-201202A02, Date: 02-Dec-2020, Time: 10:34:22, ID: H5-20-CS2-1035, Description: 1668A-CS2-020, Vial: Tray1:4



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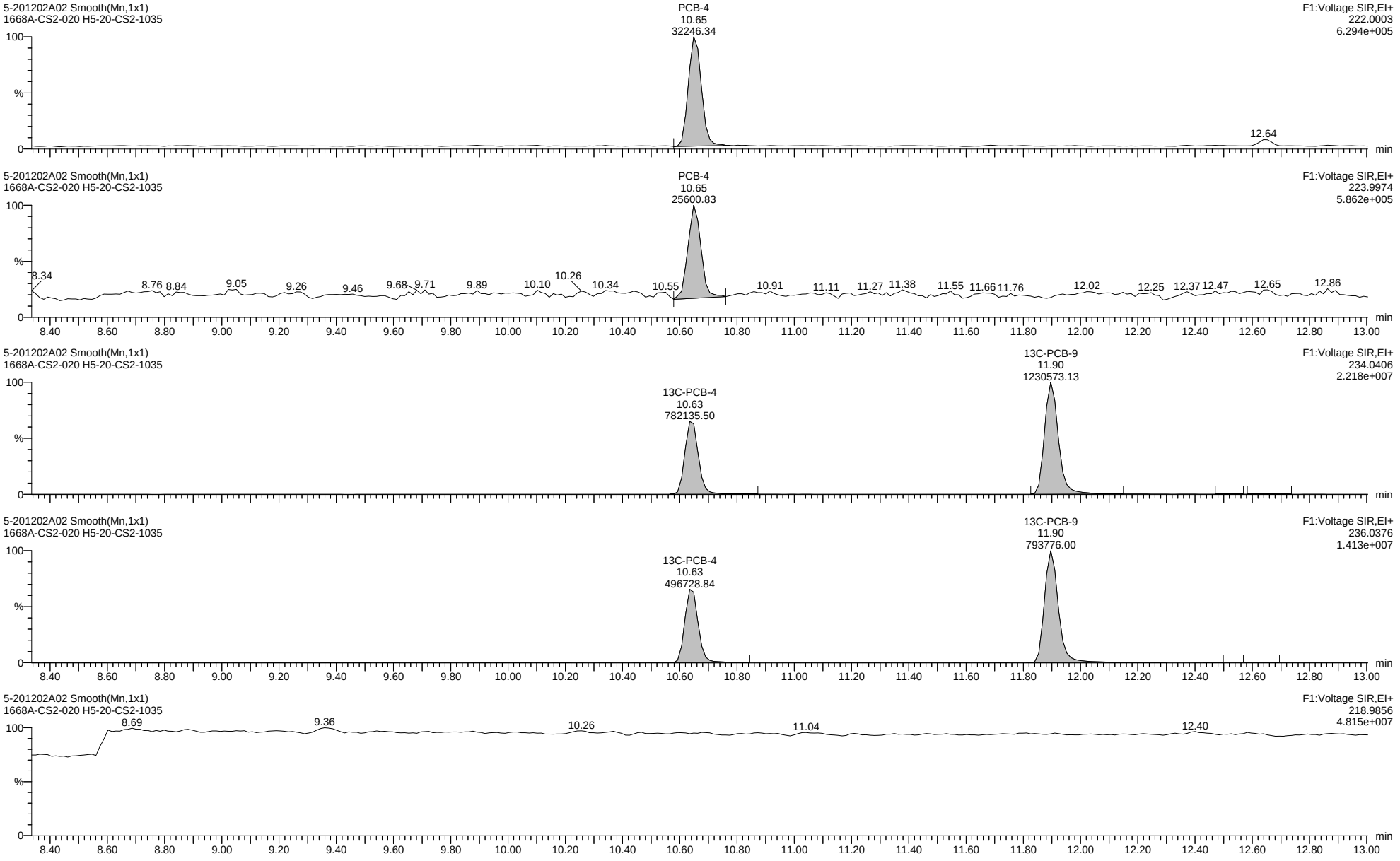

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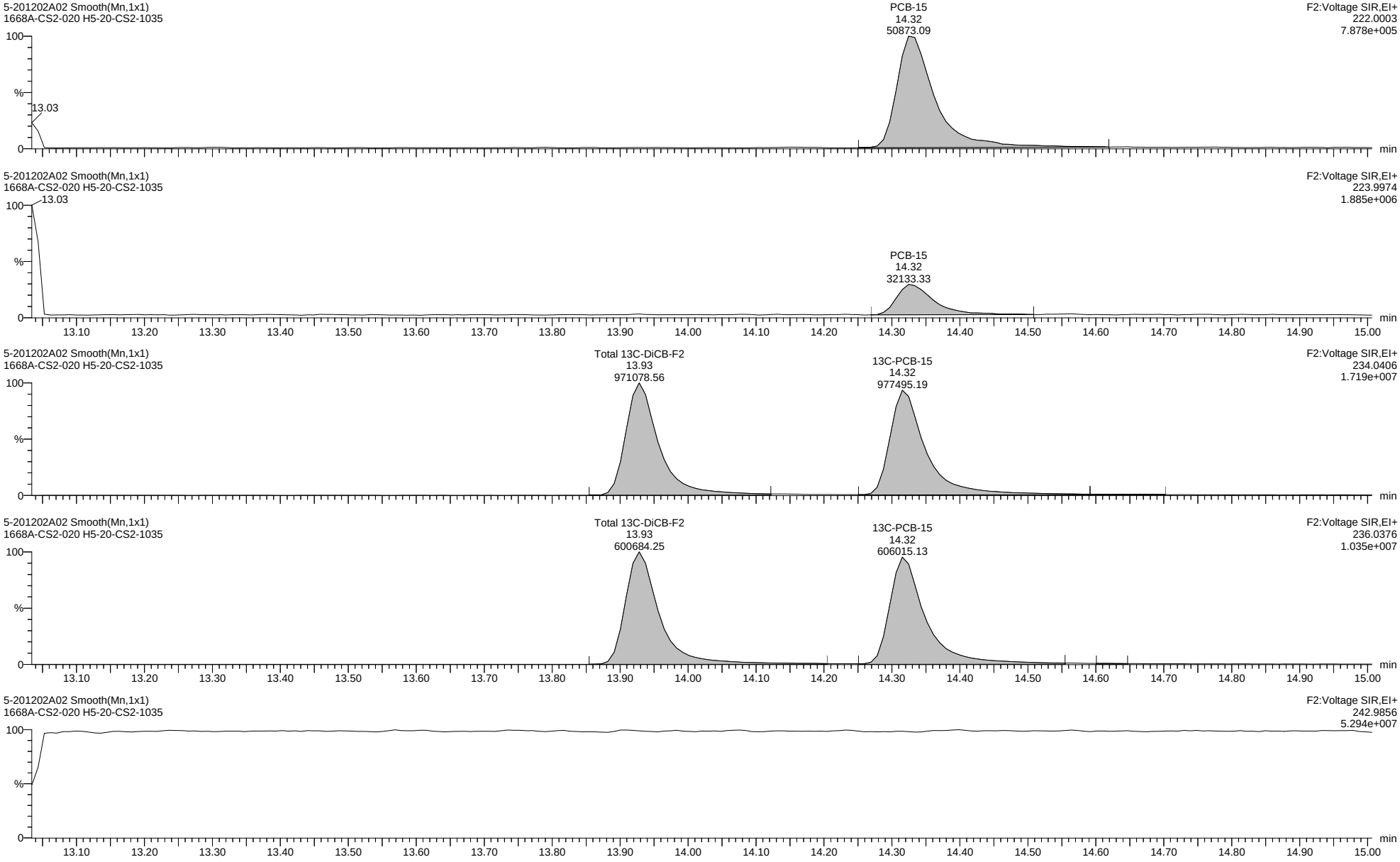

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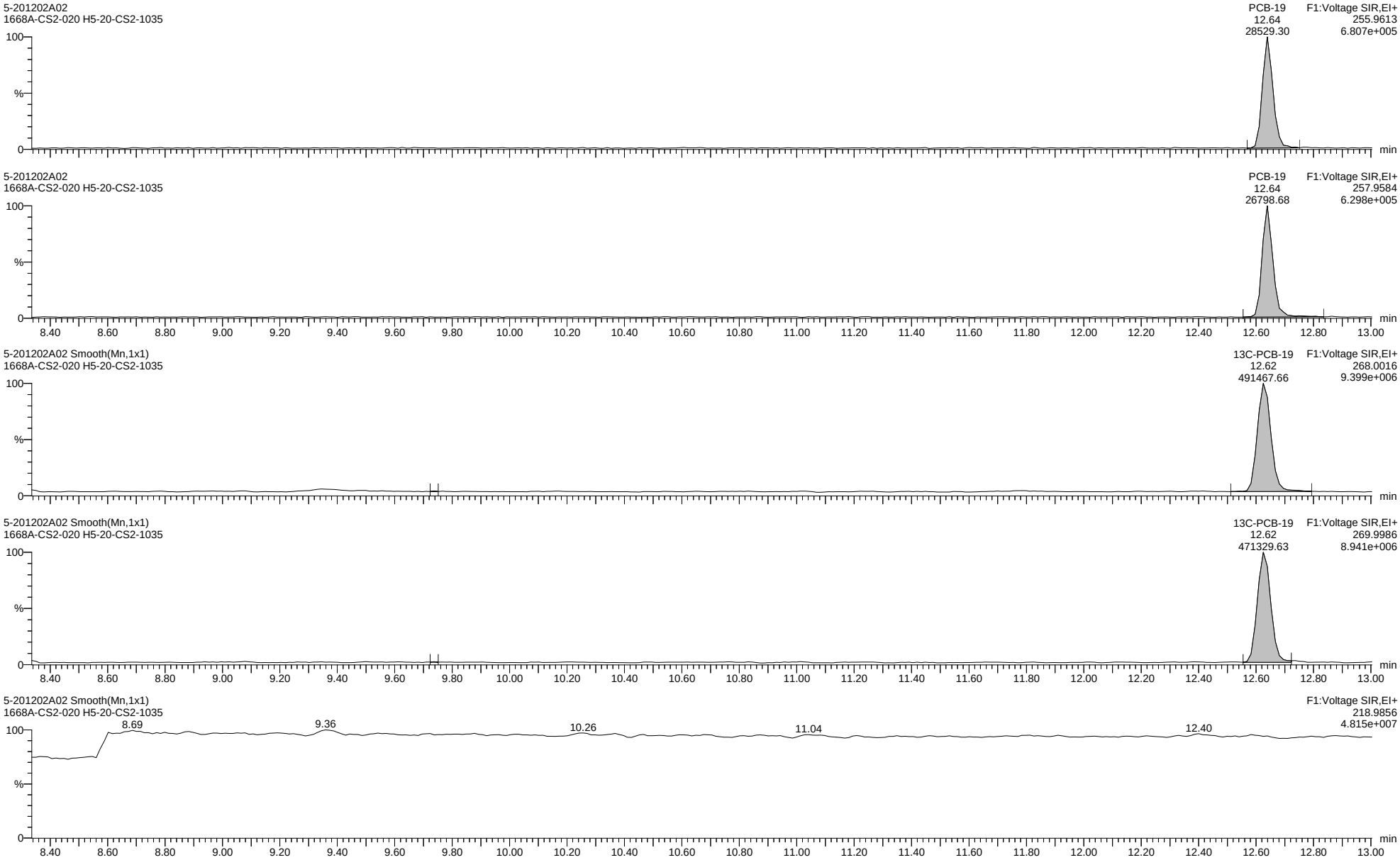

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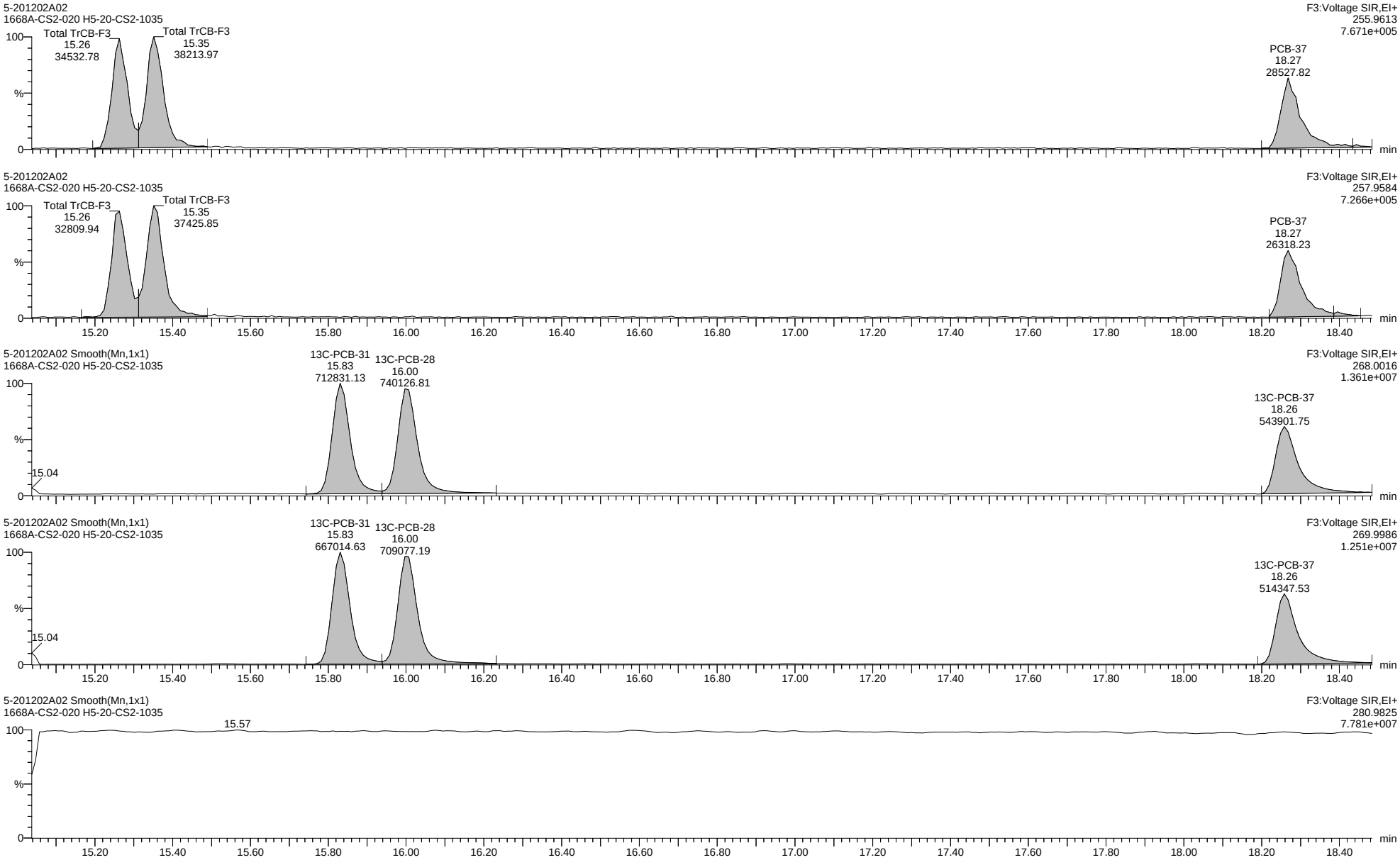

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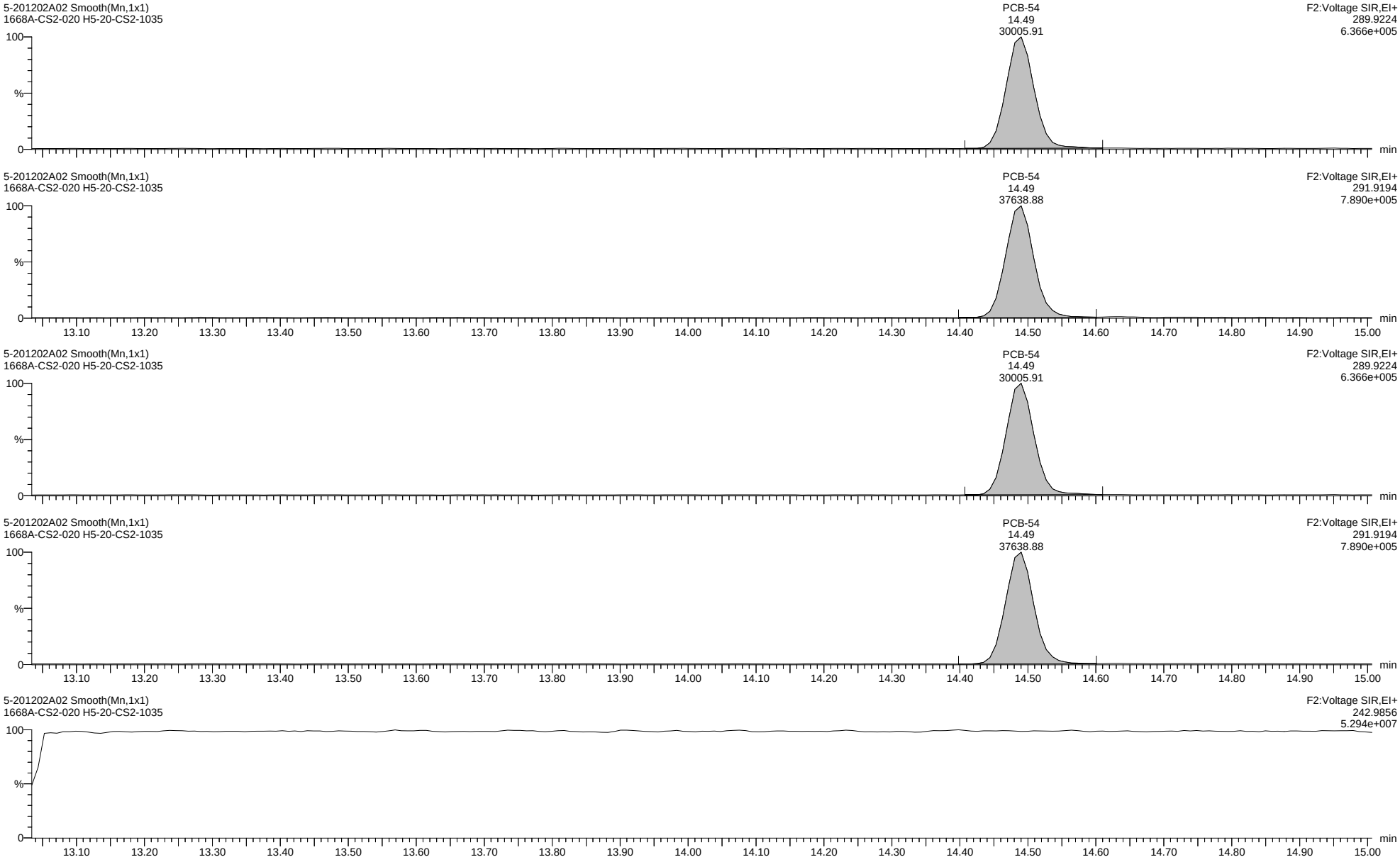

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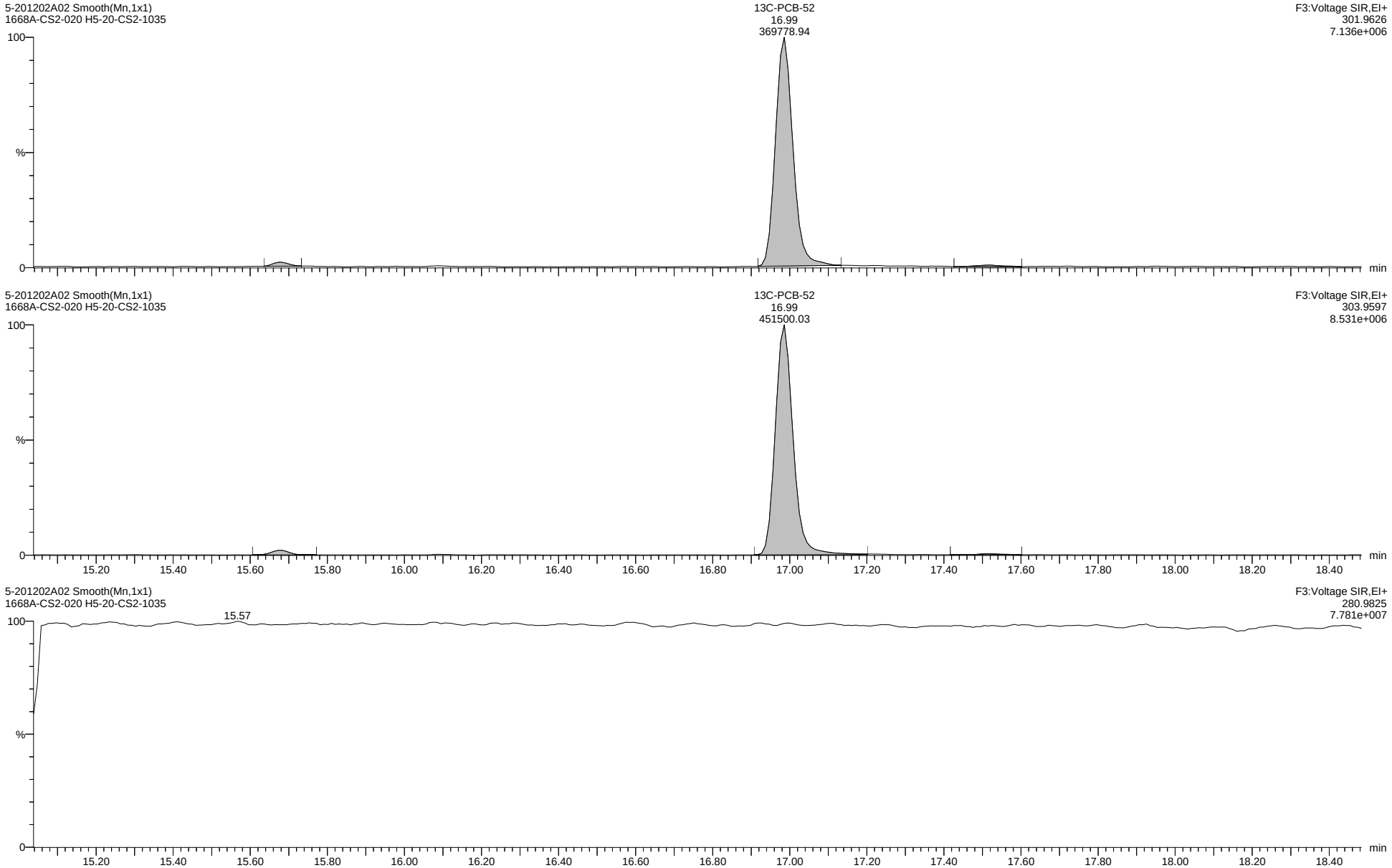

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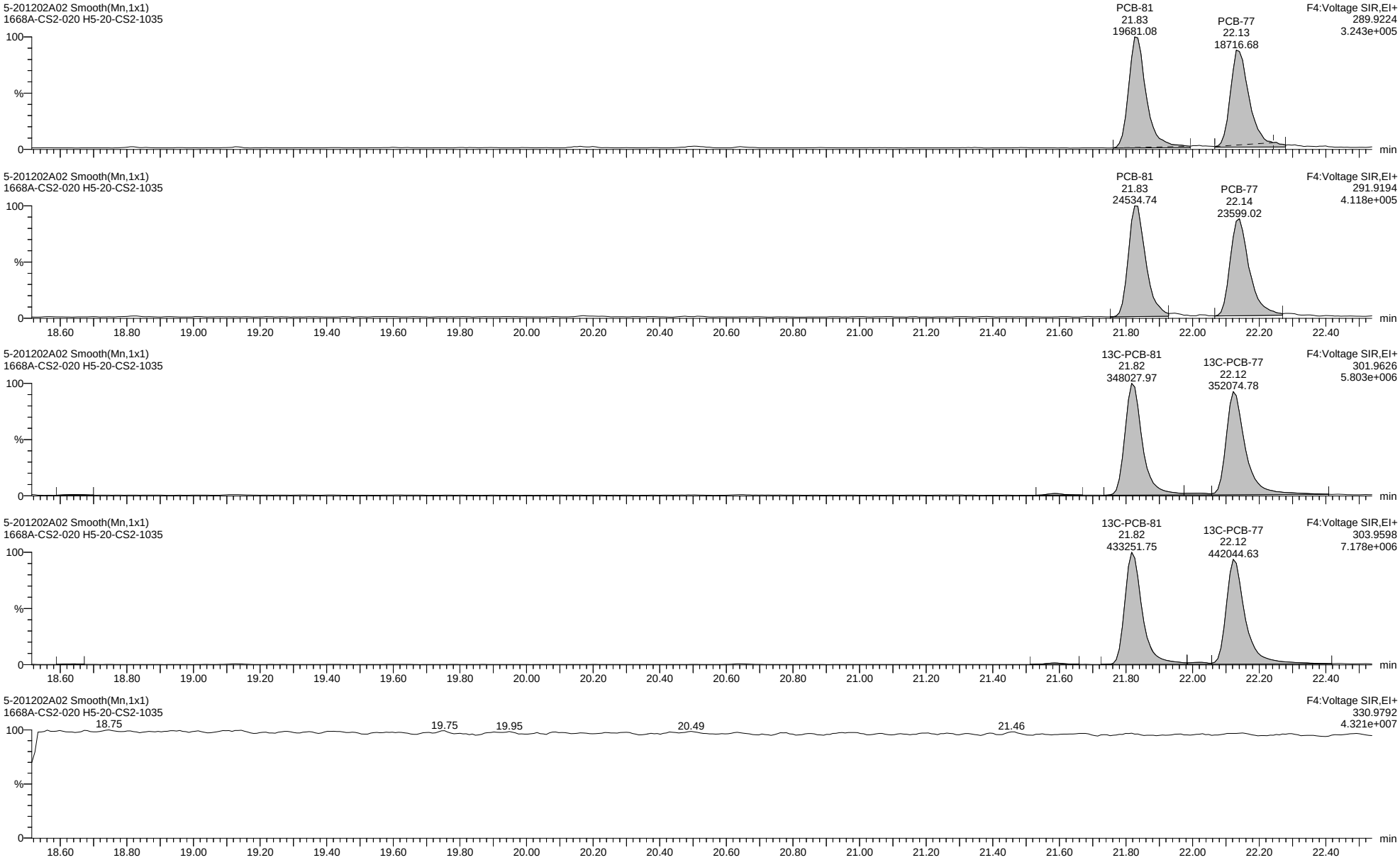

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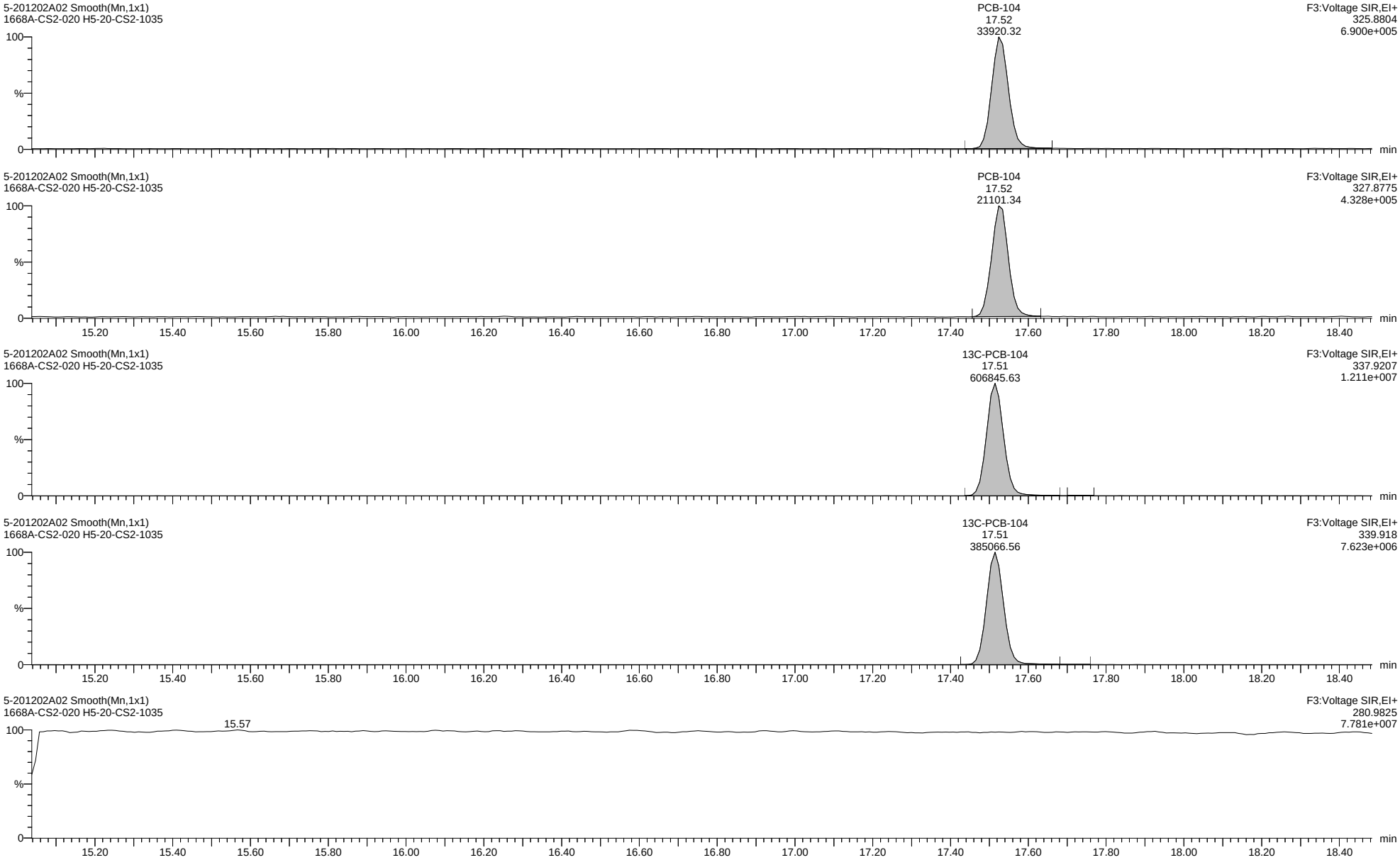

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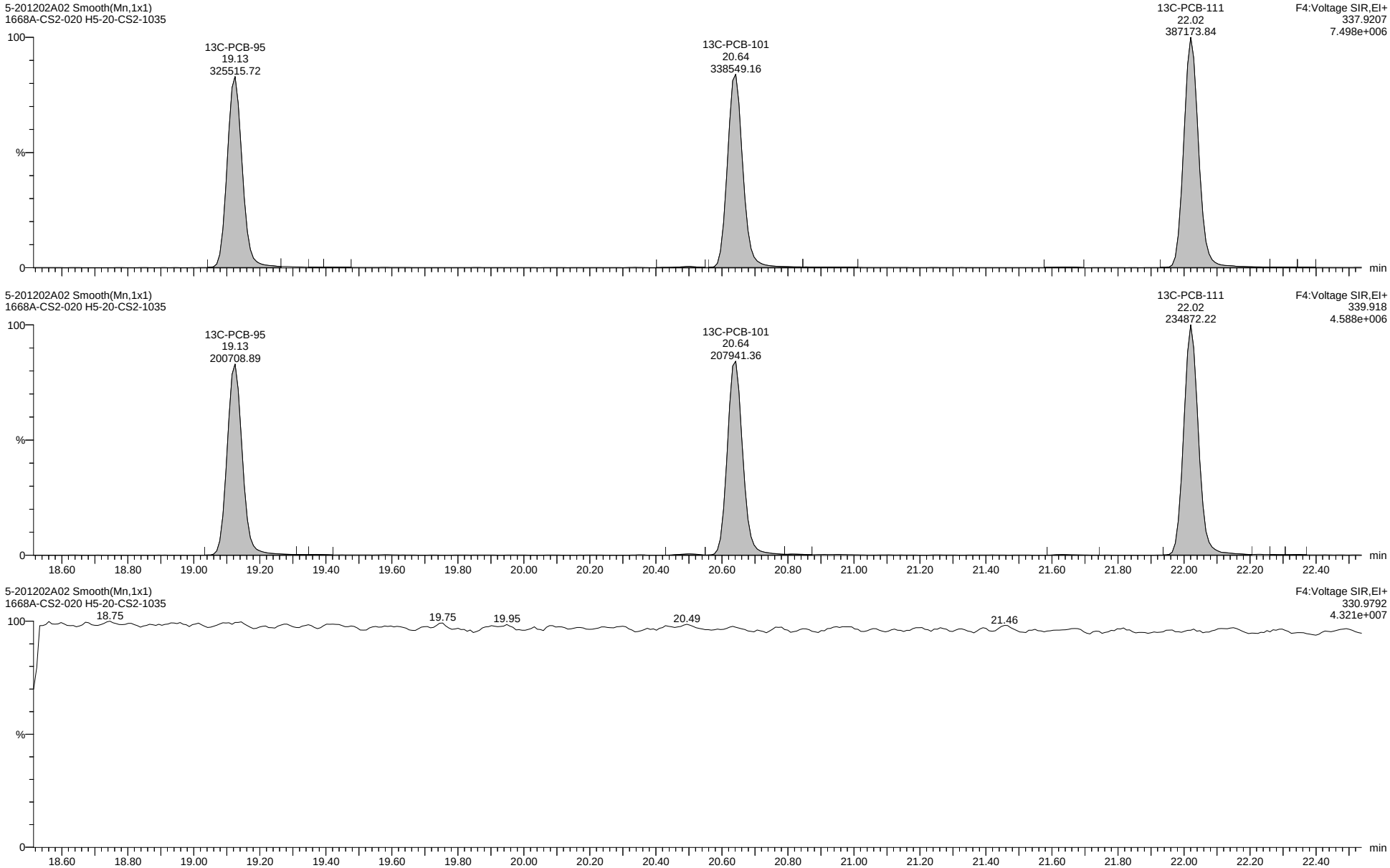

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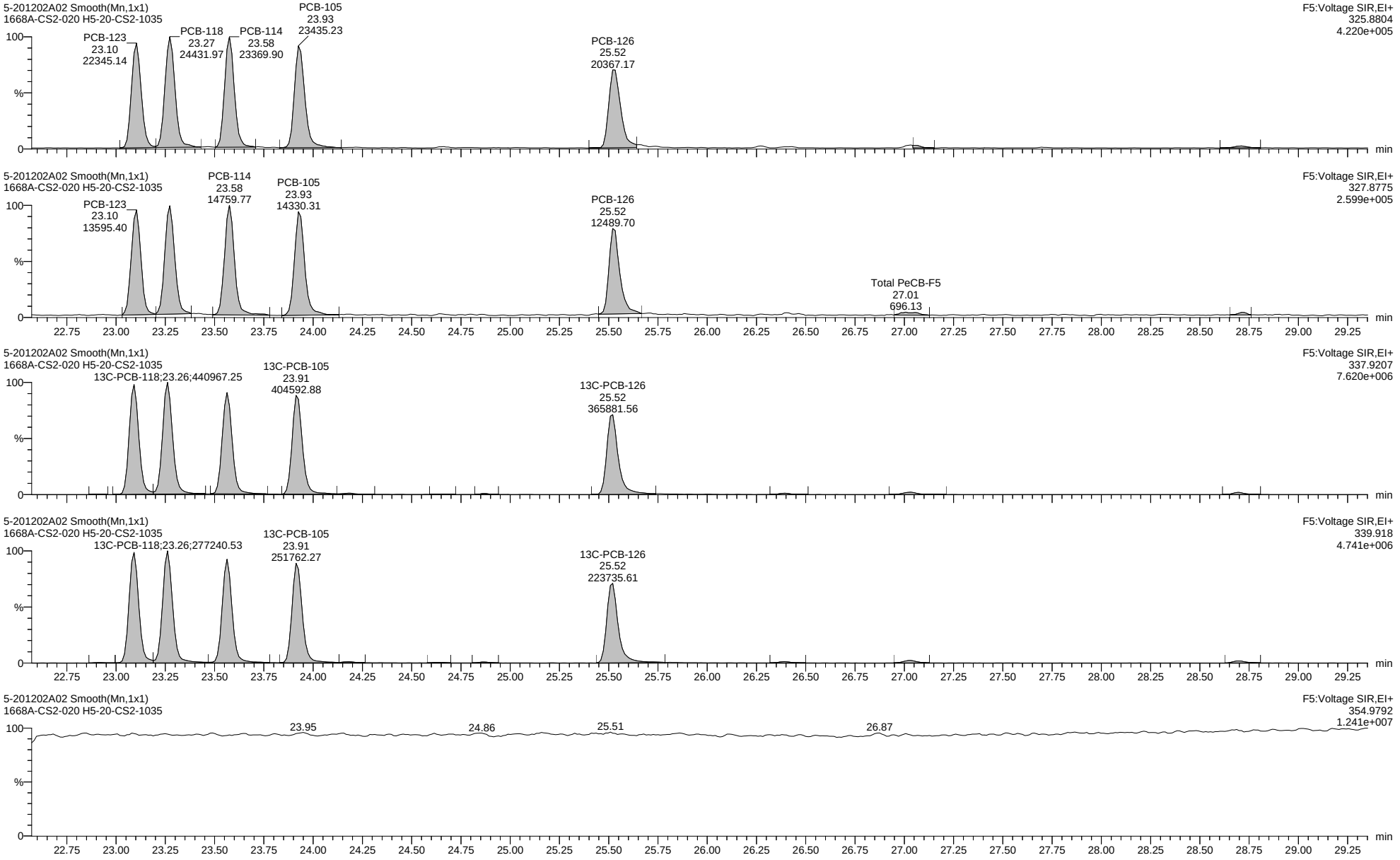

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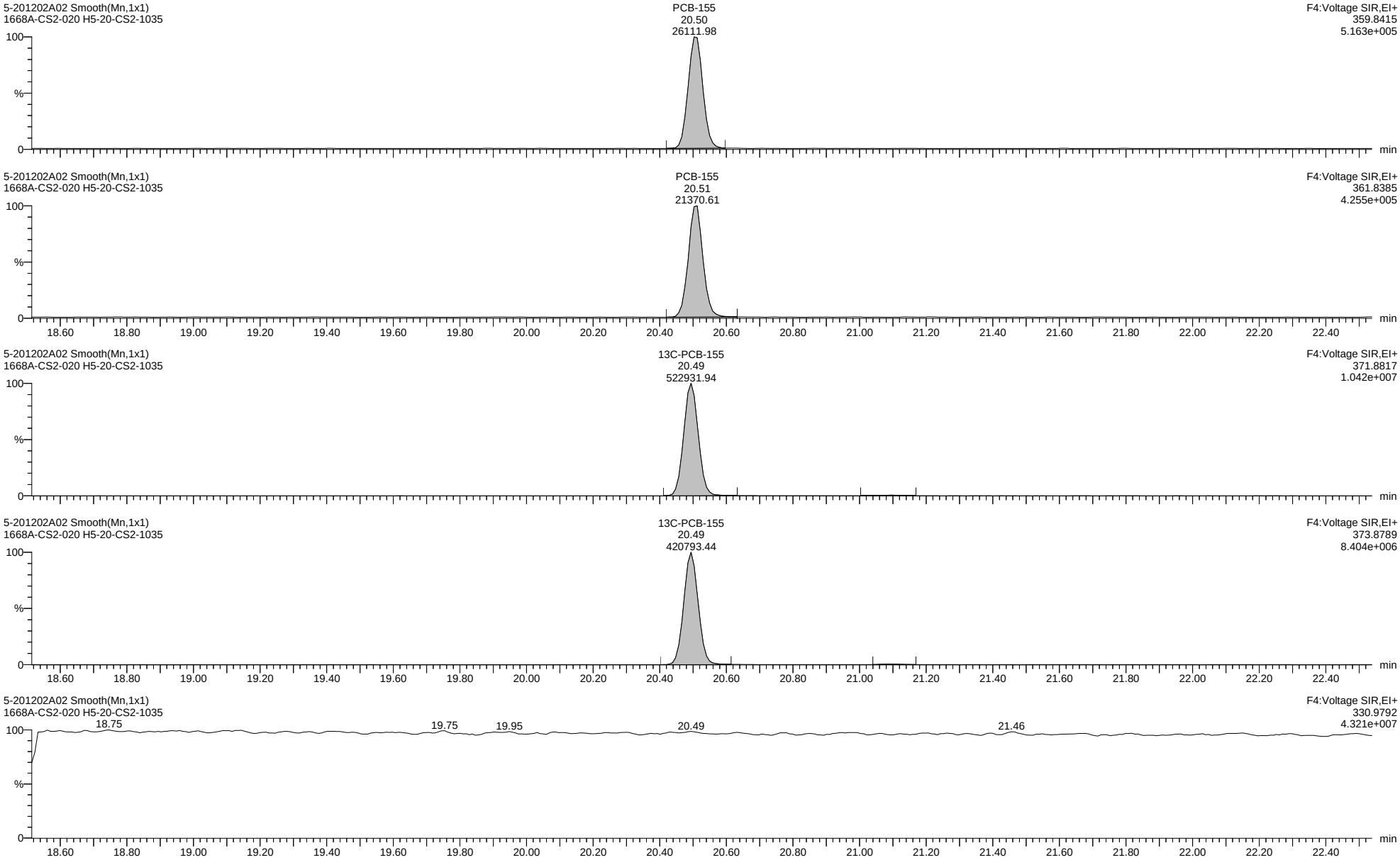

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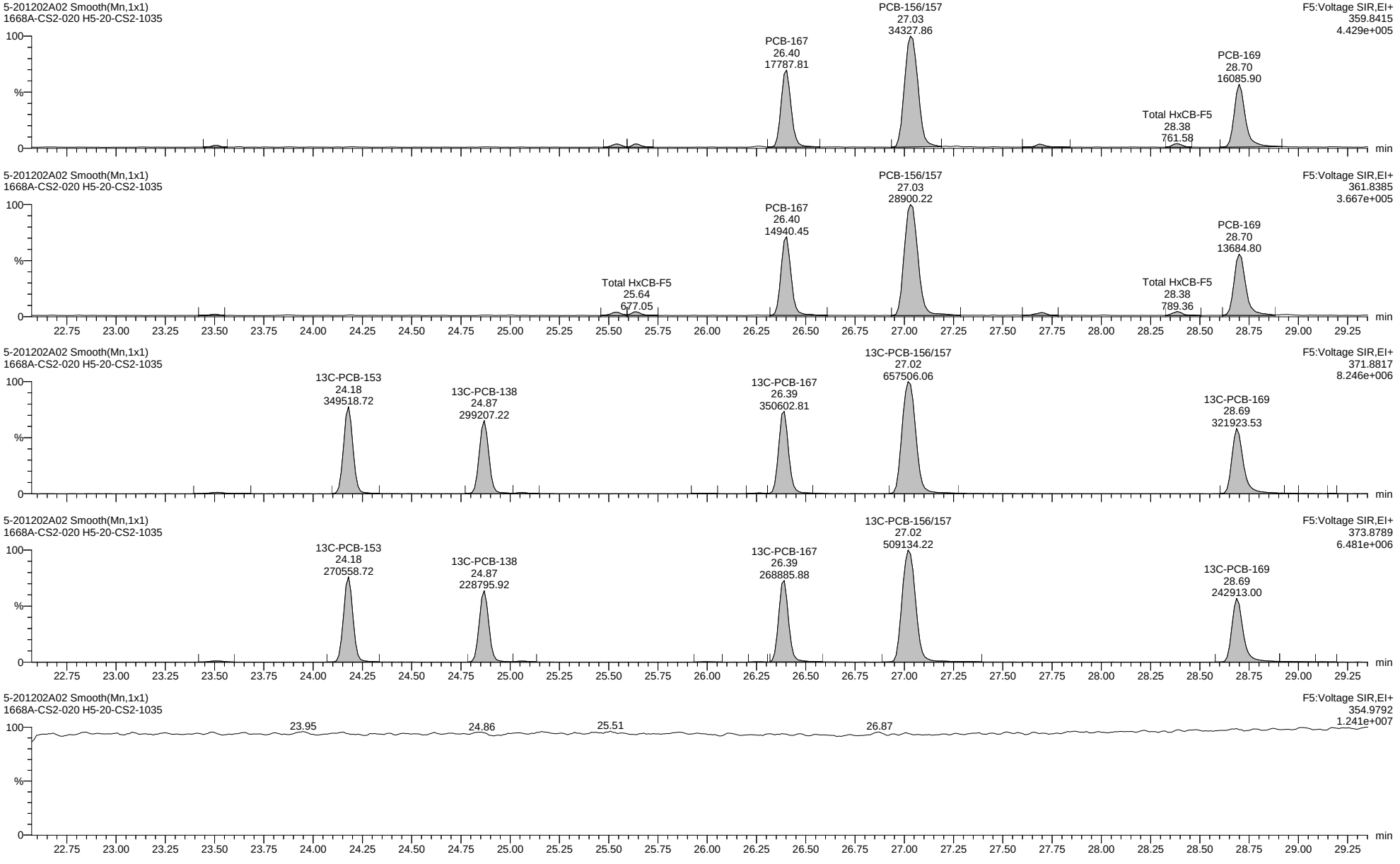

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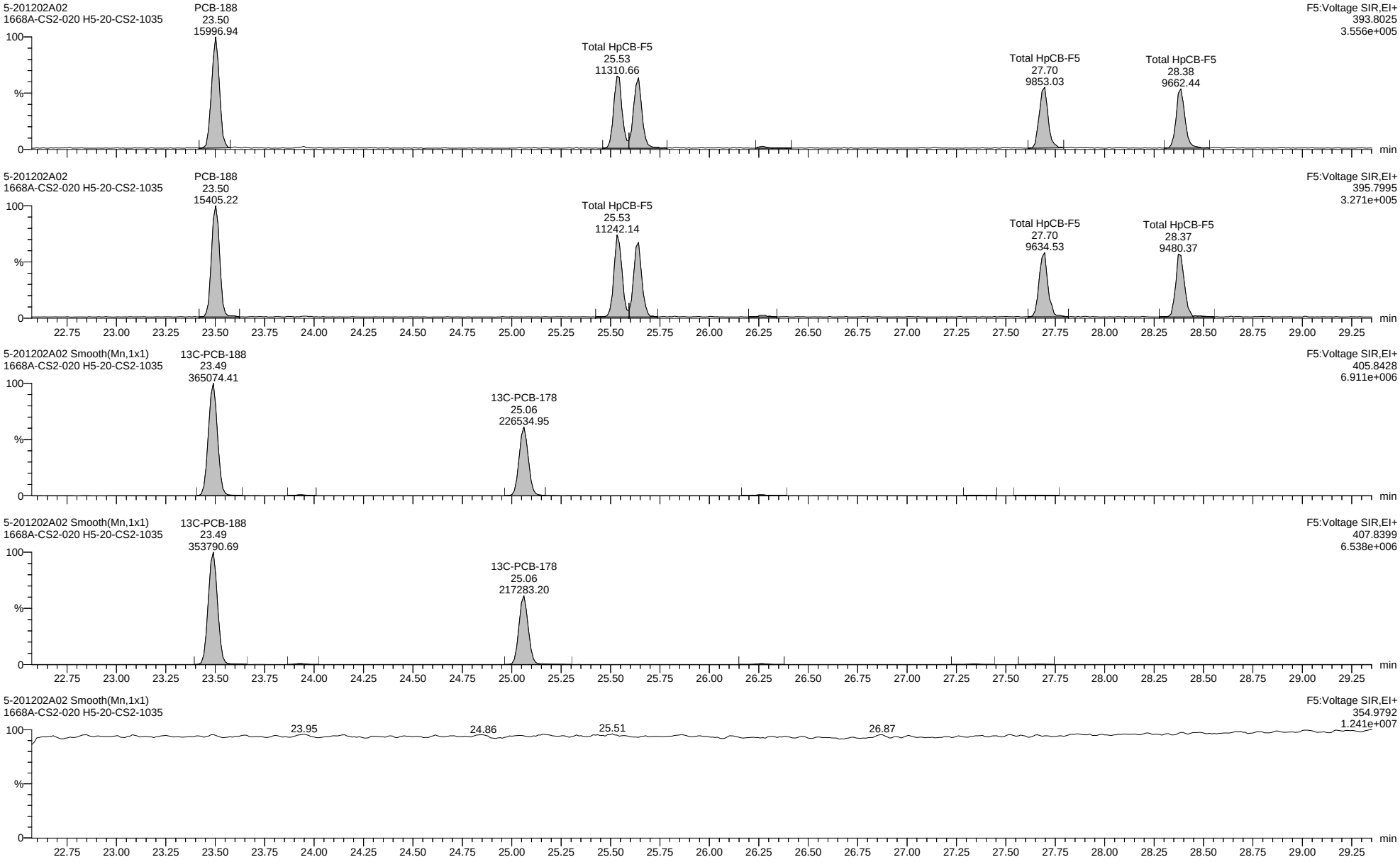

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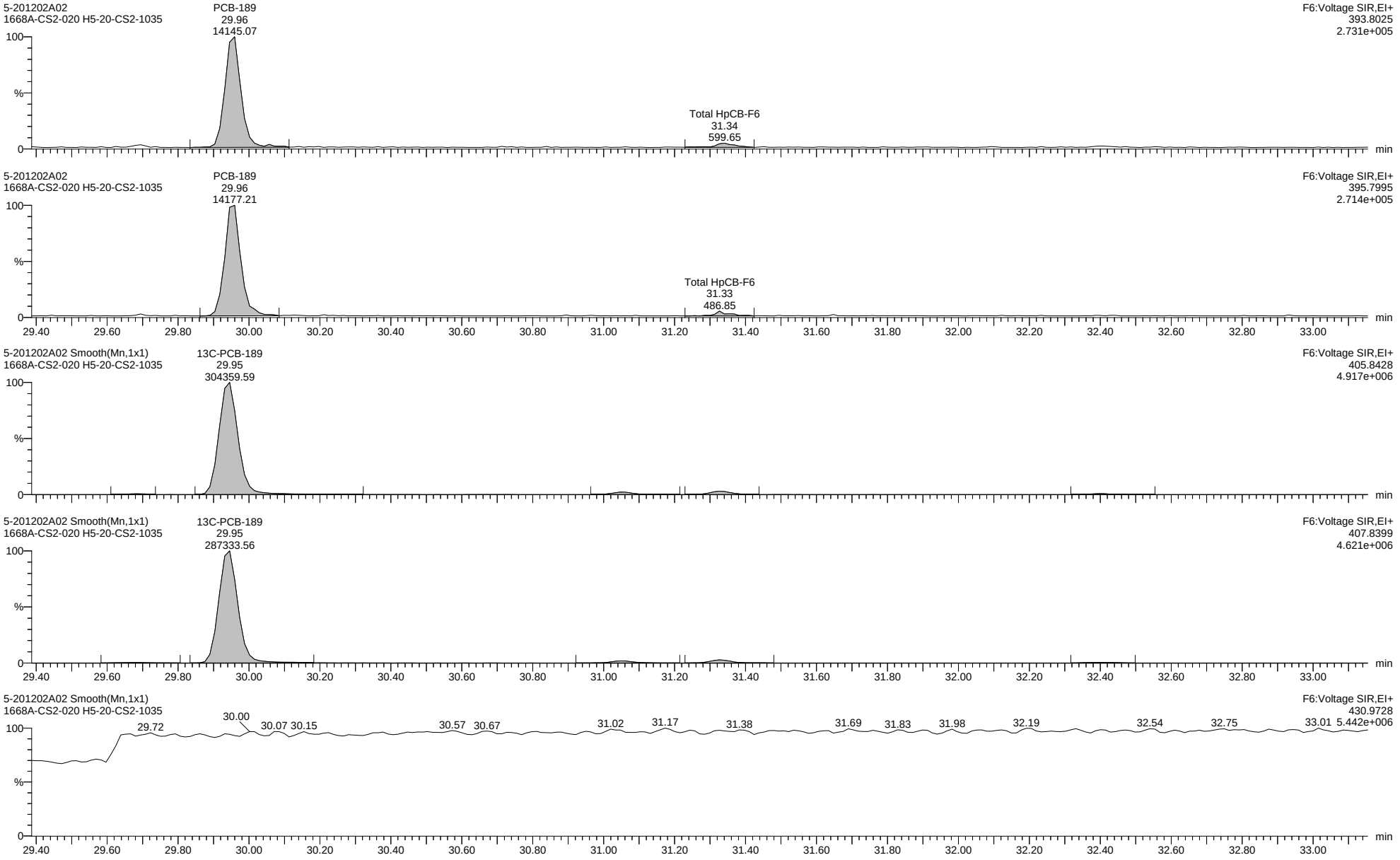

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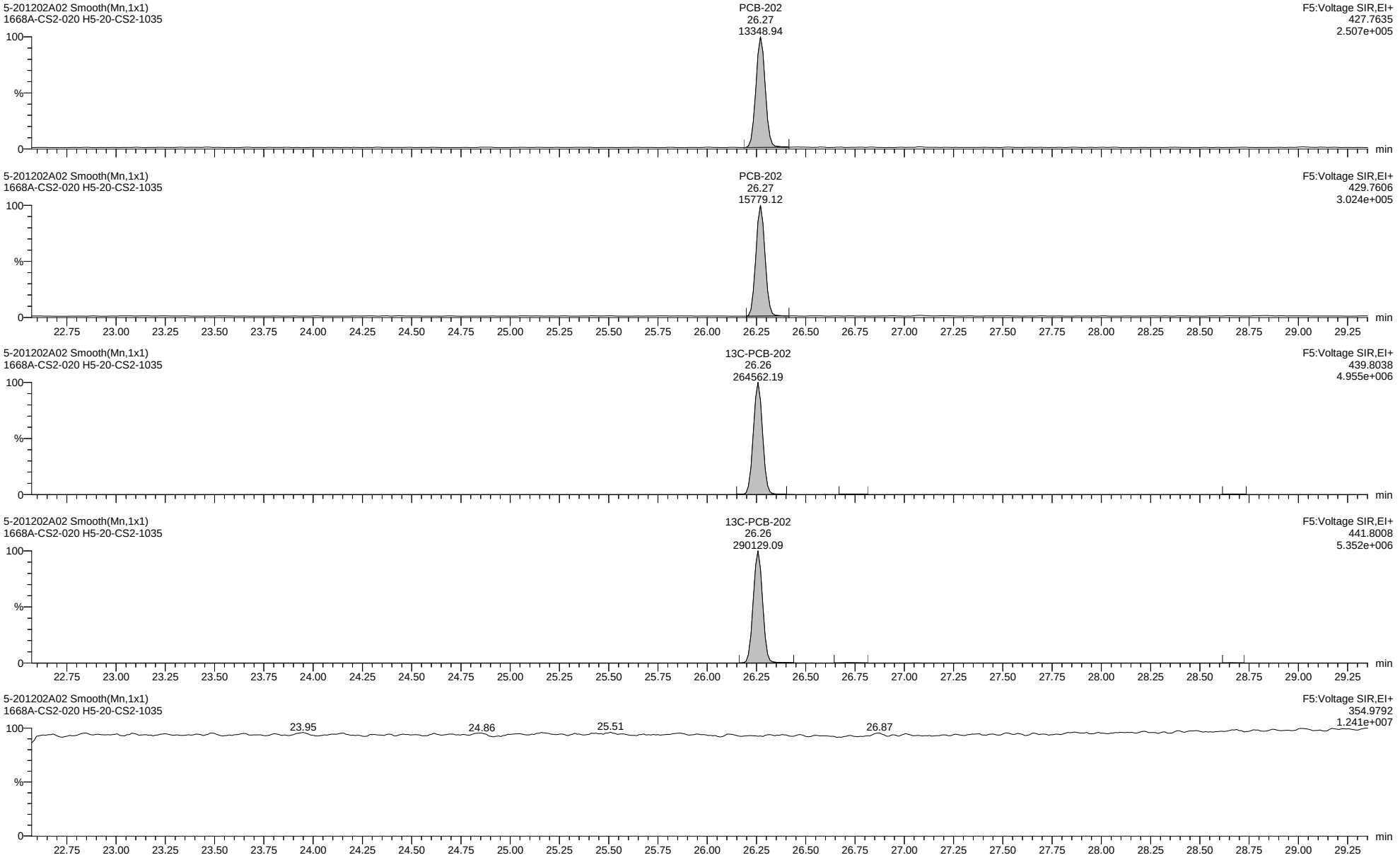

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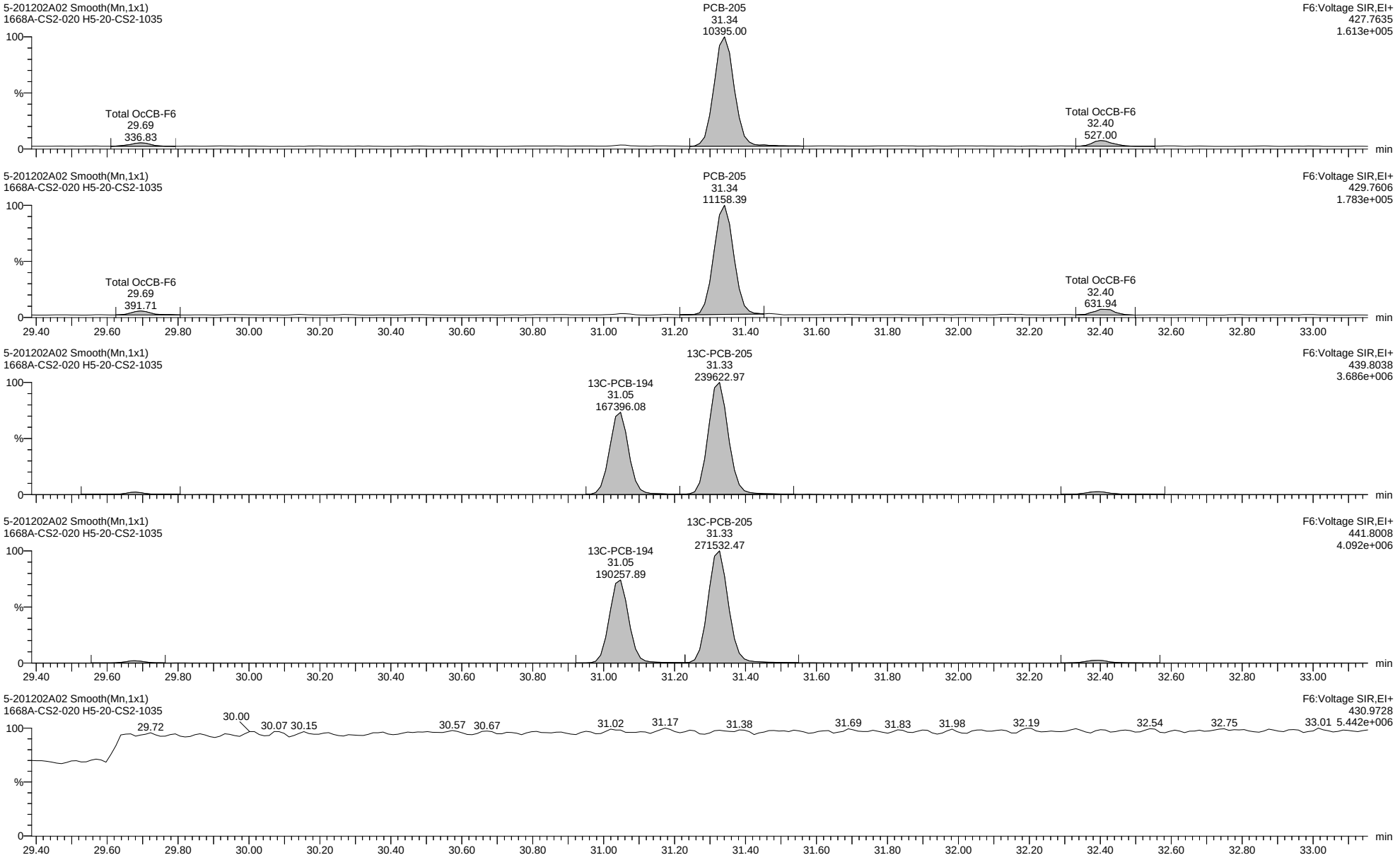

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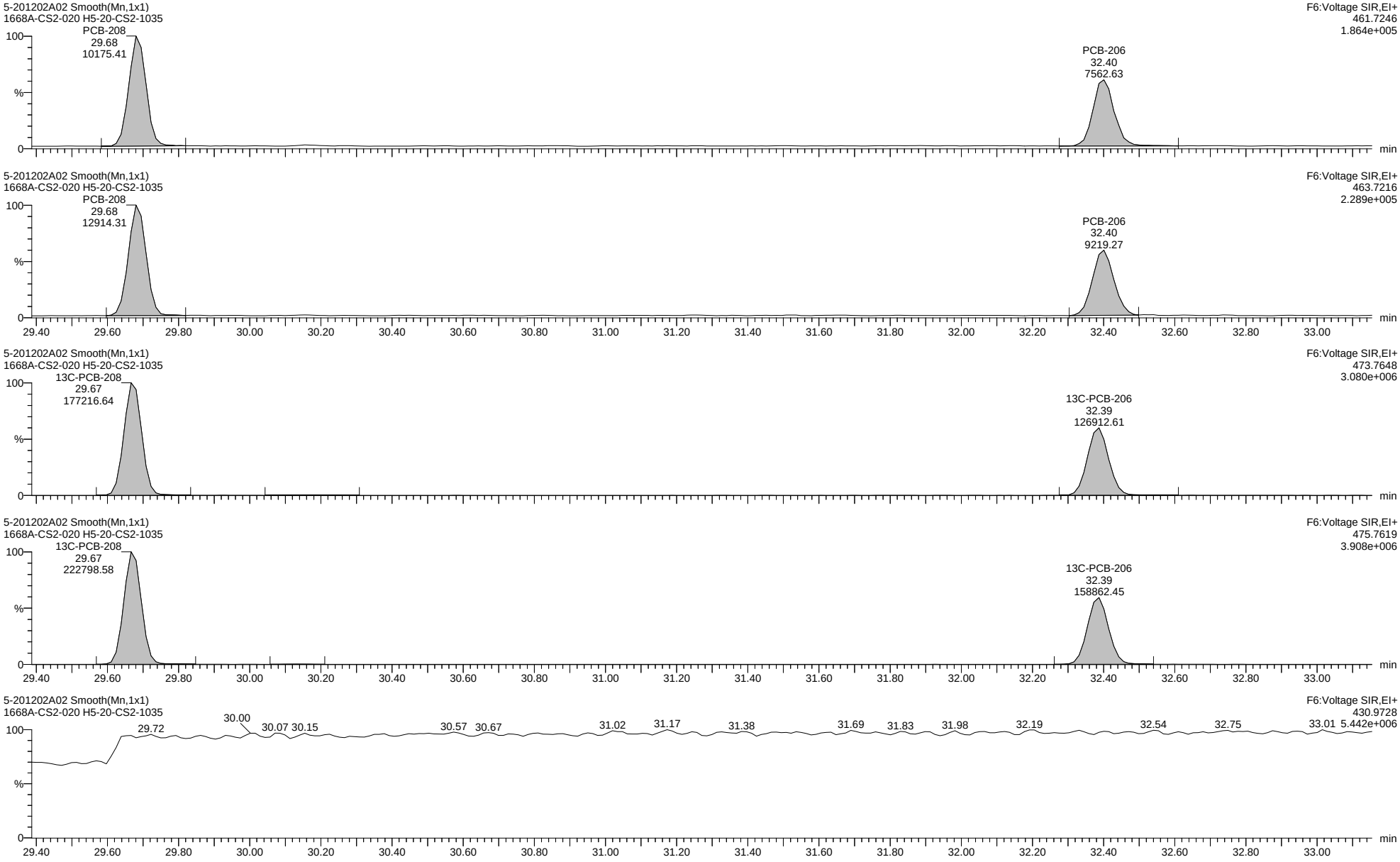

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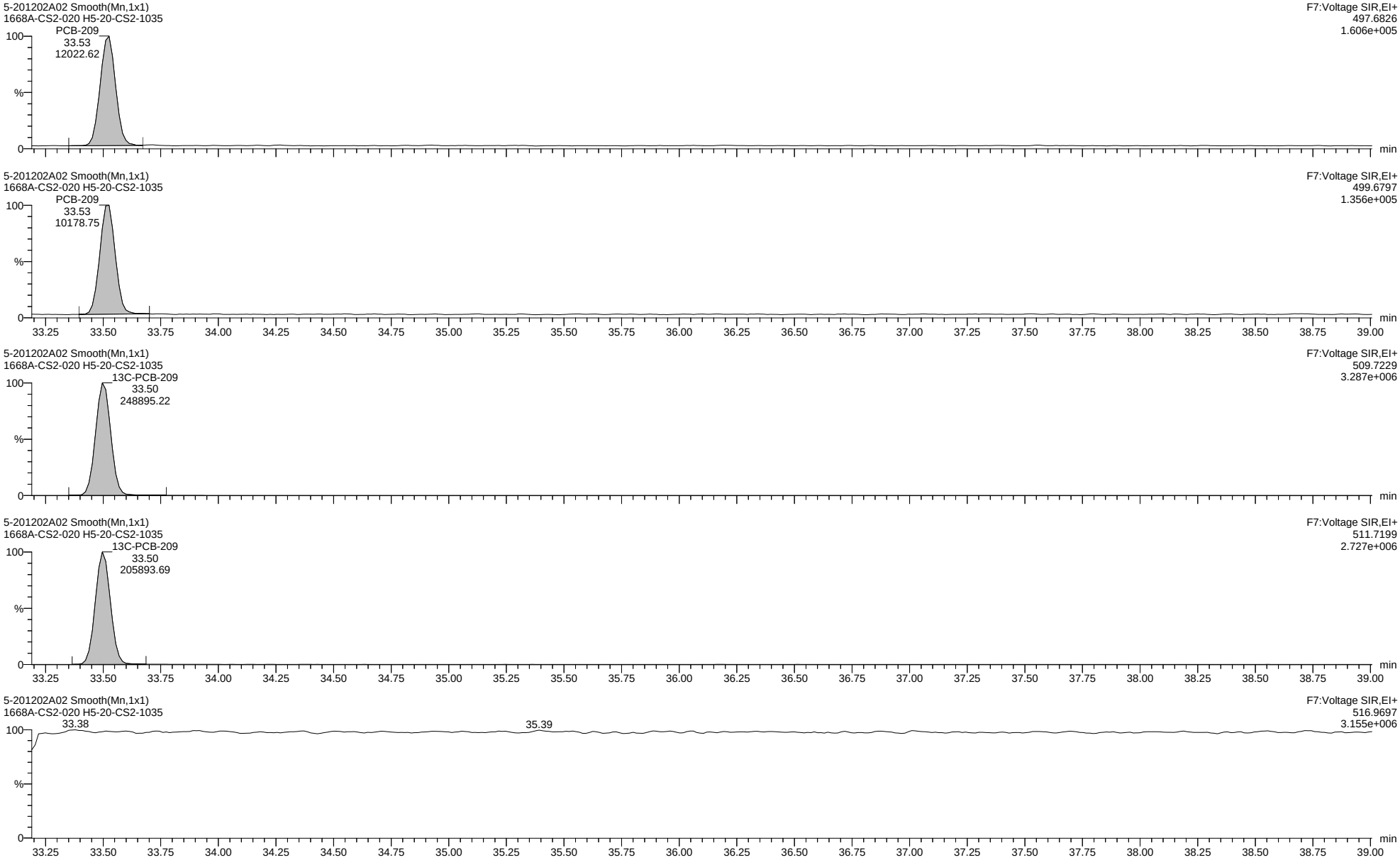

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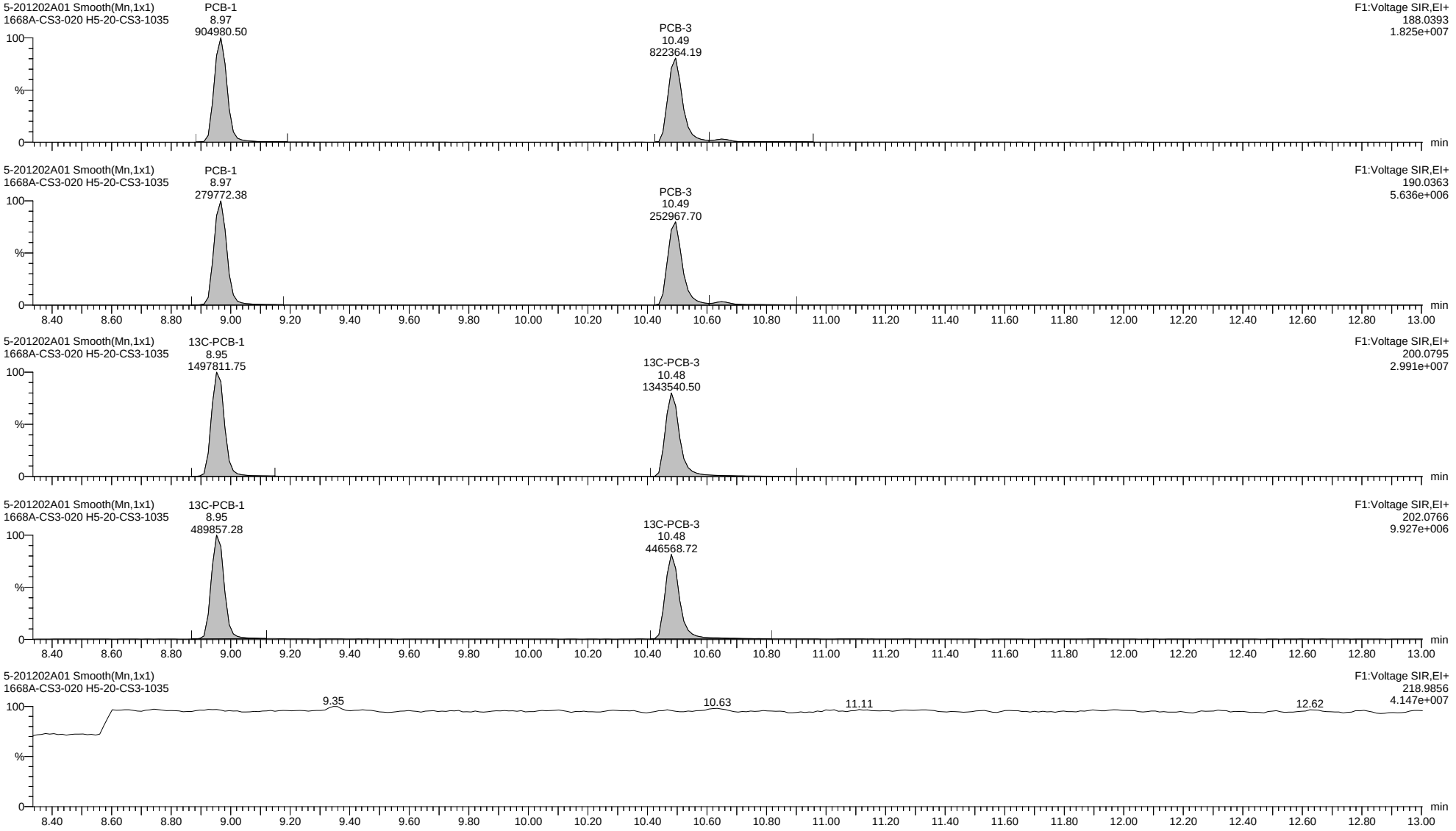

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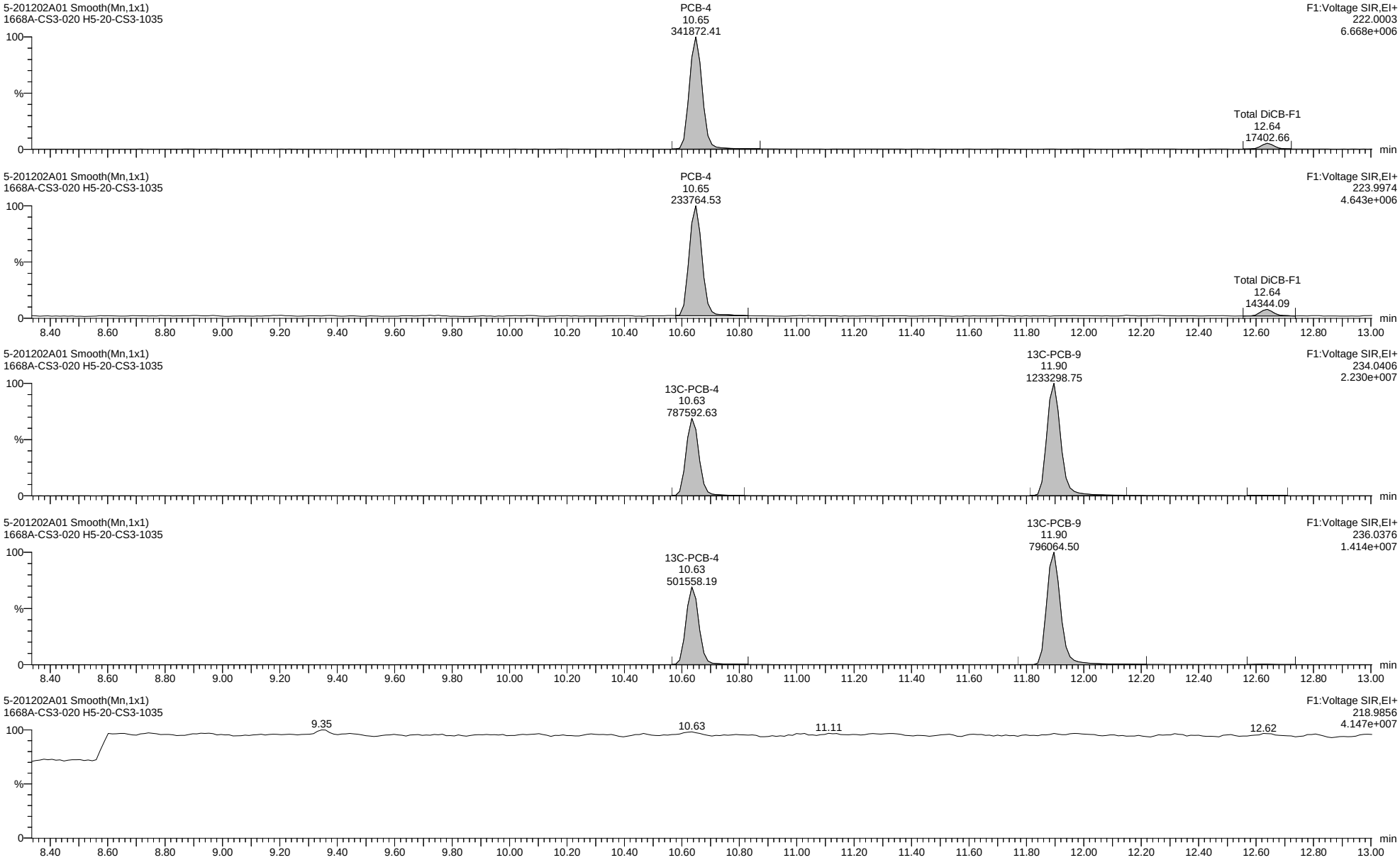

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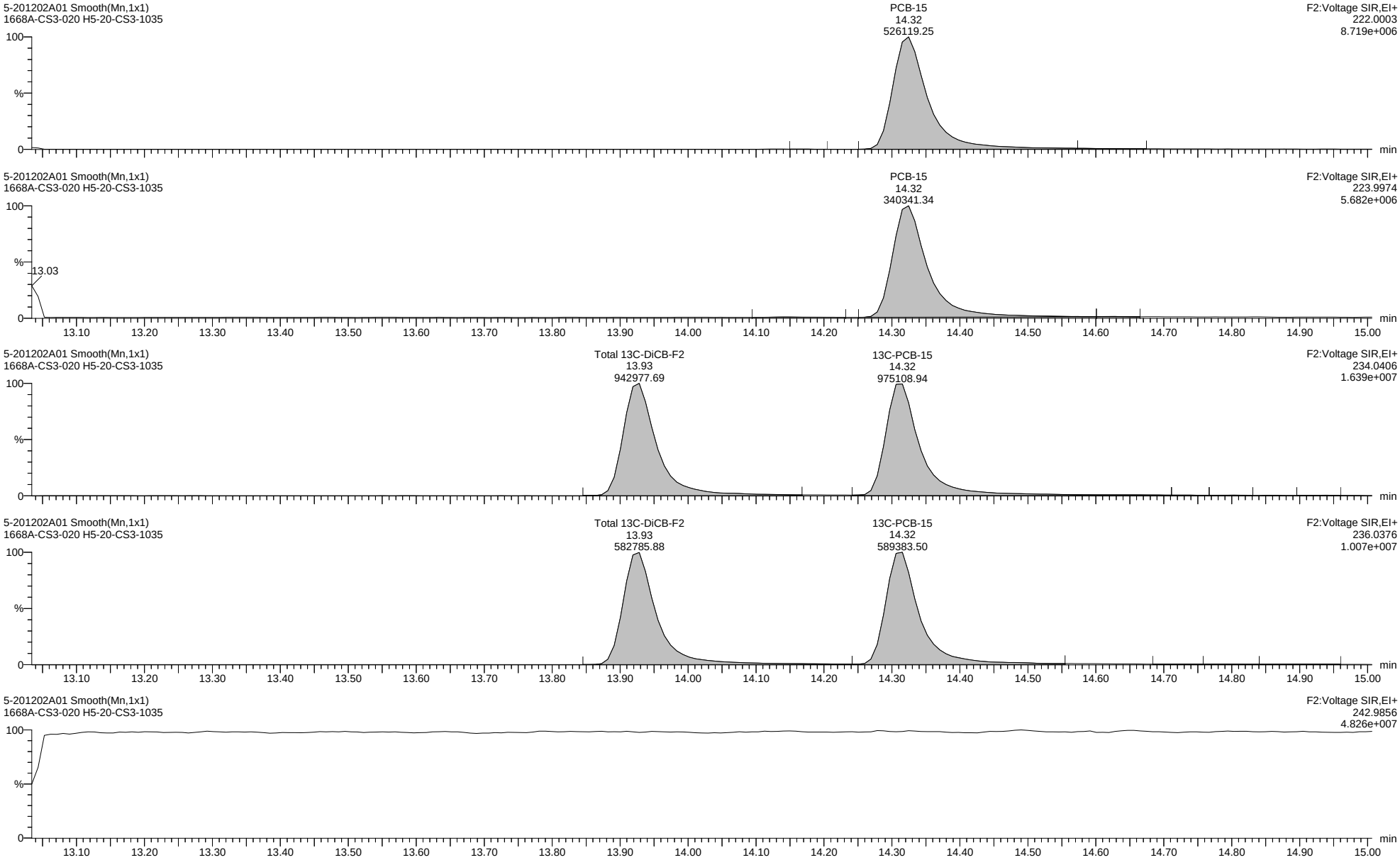

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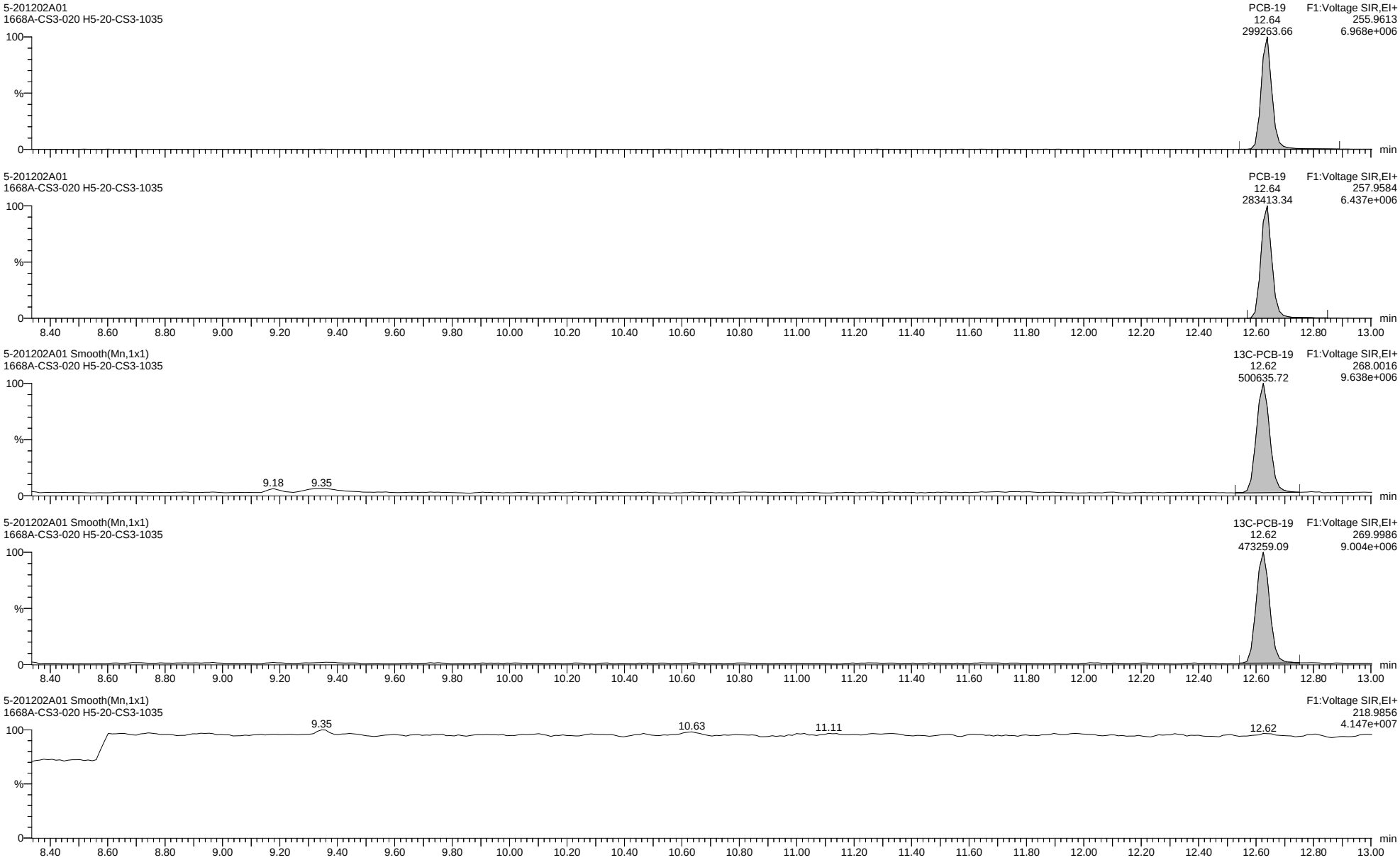

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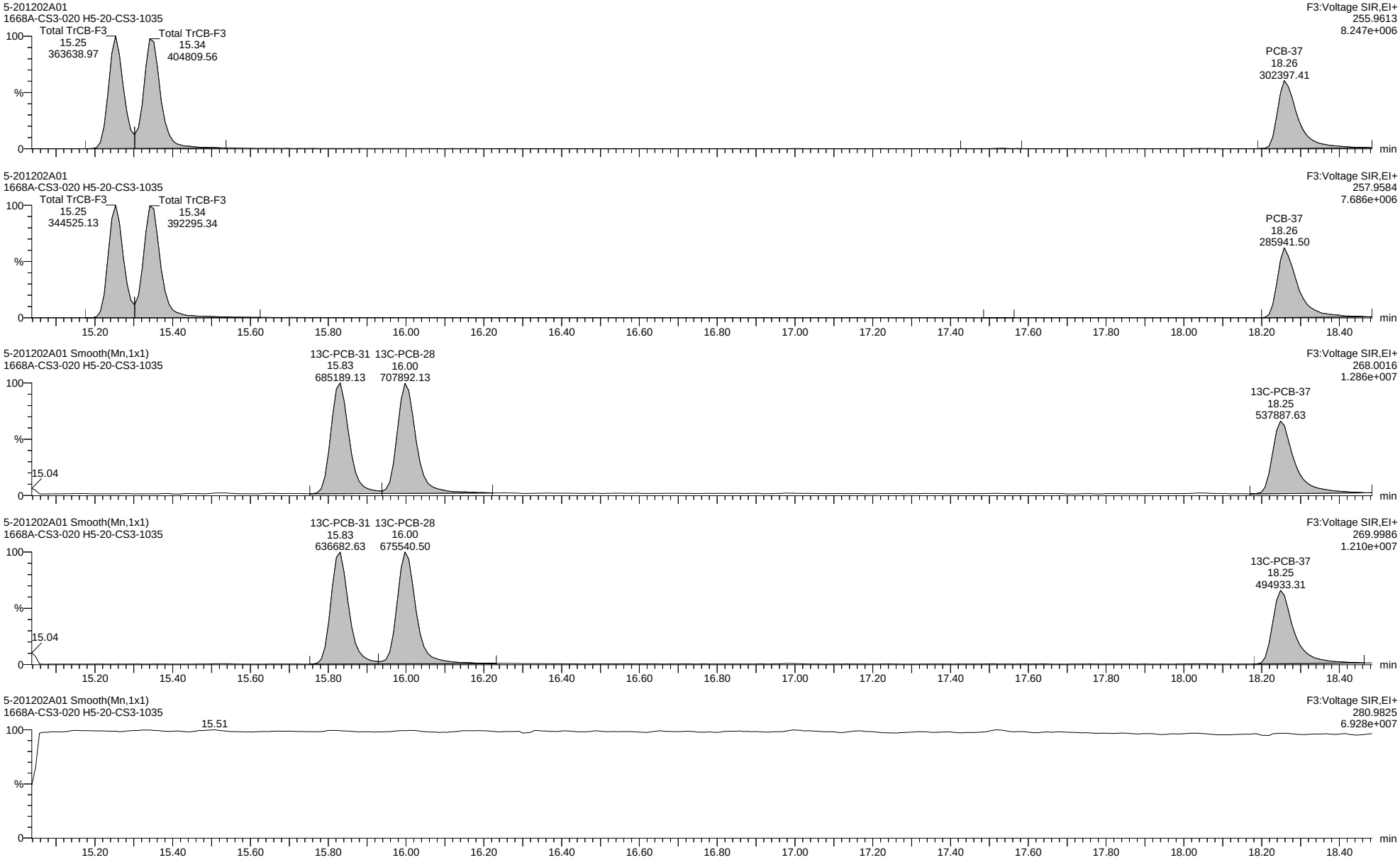

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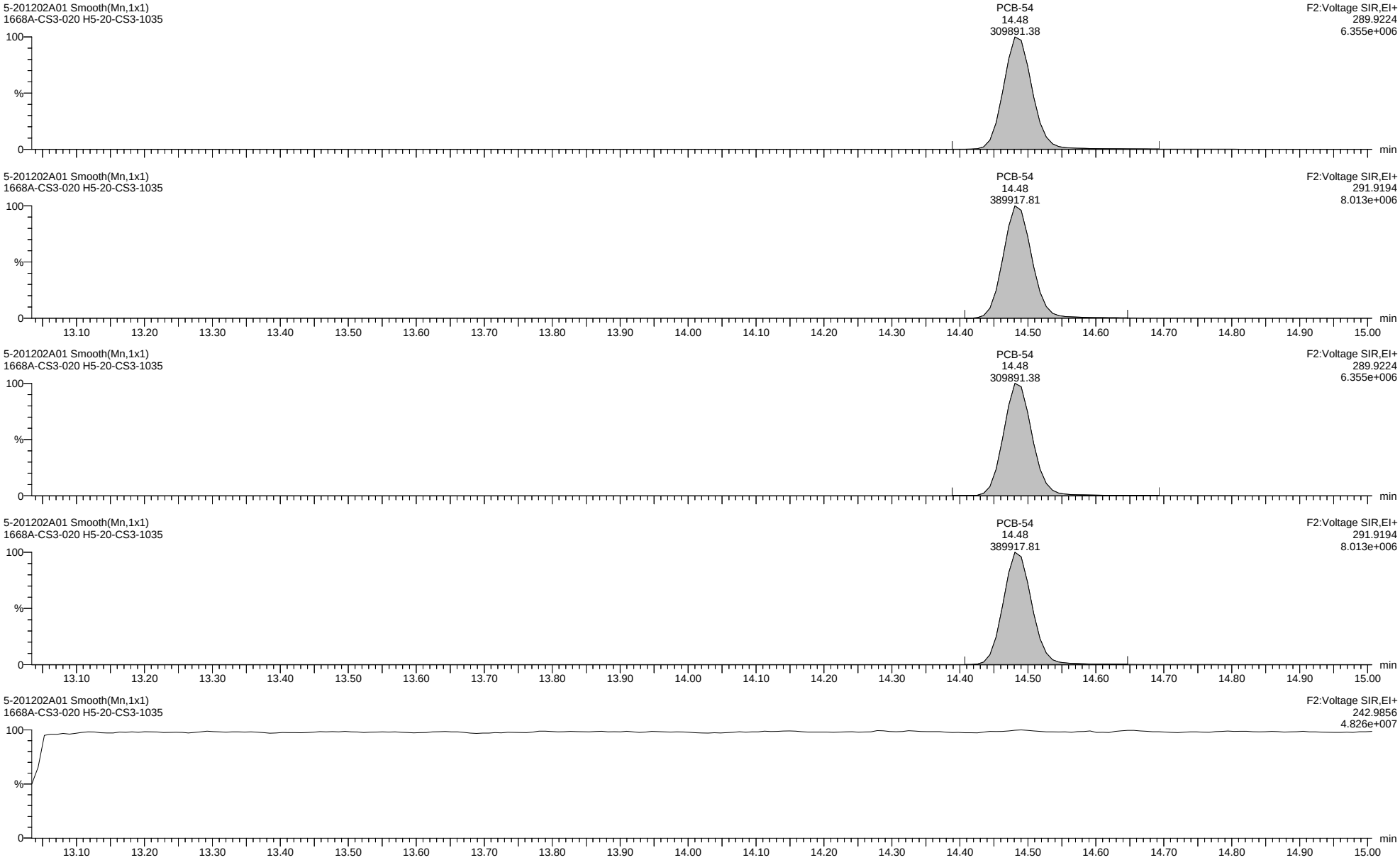

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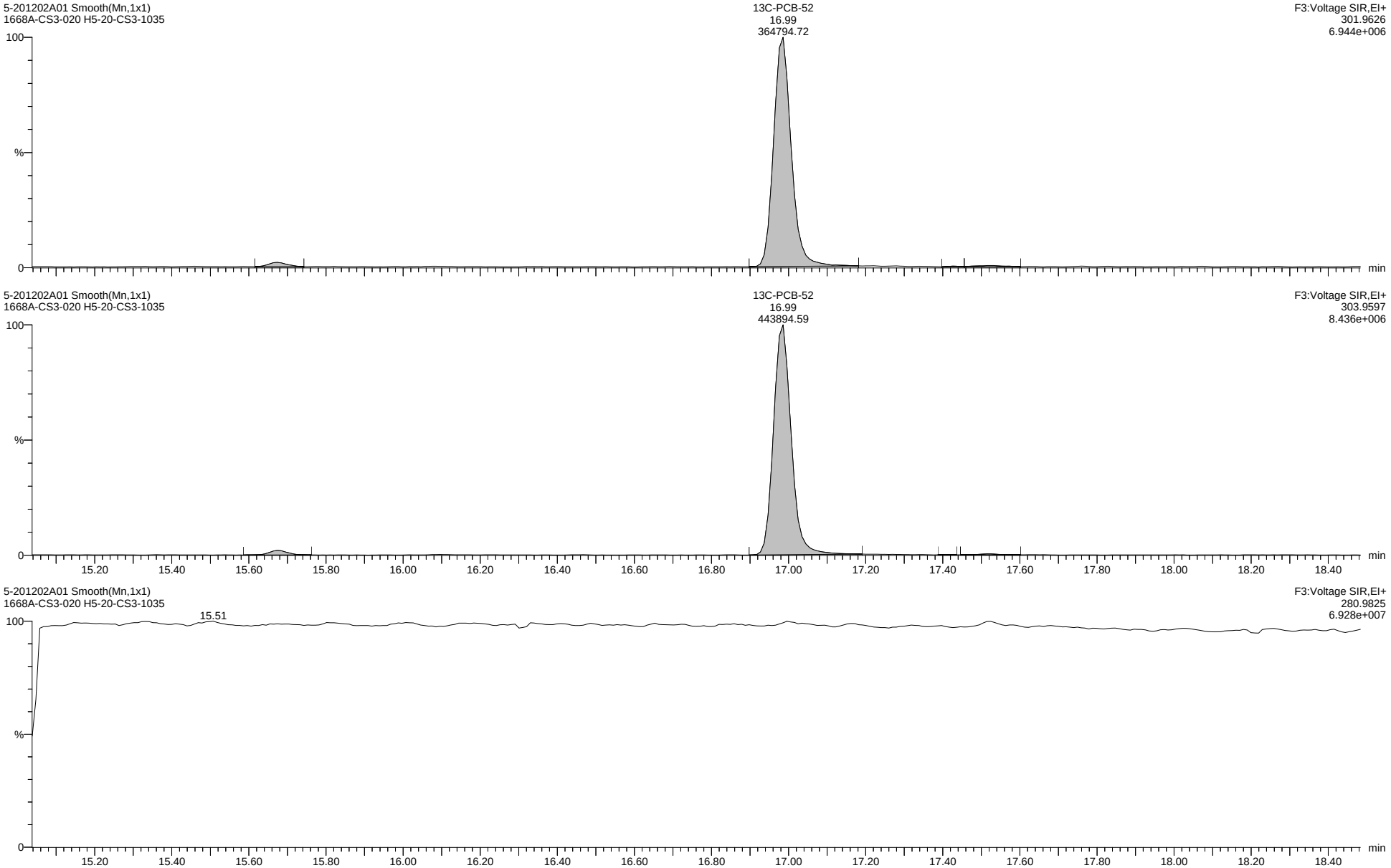

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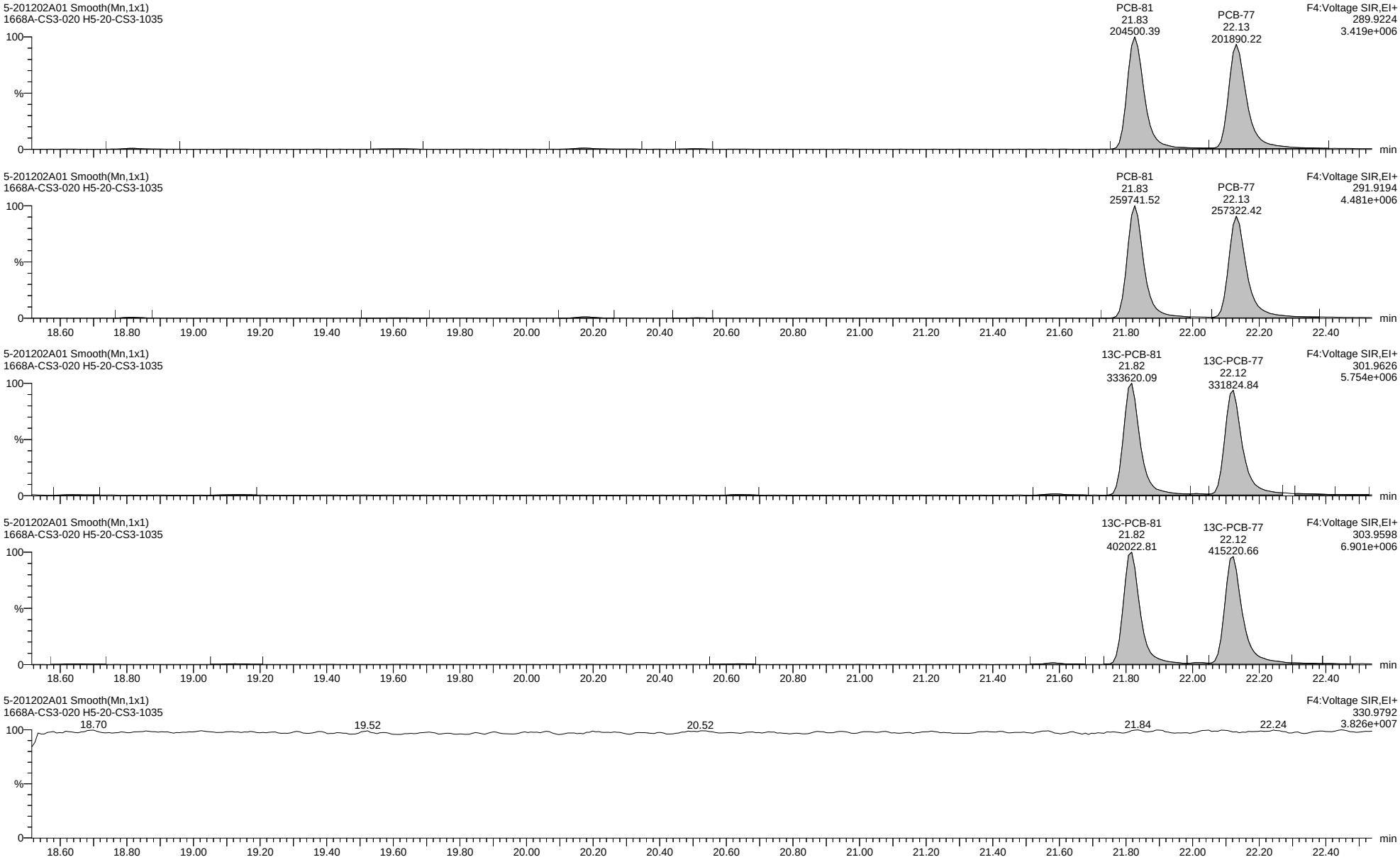

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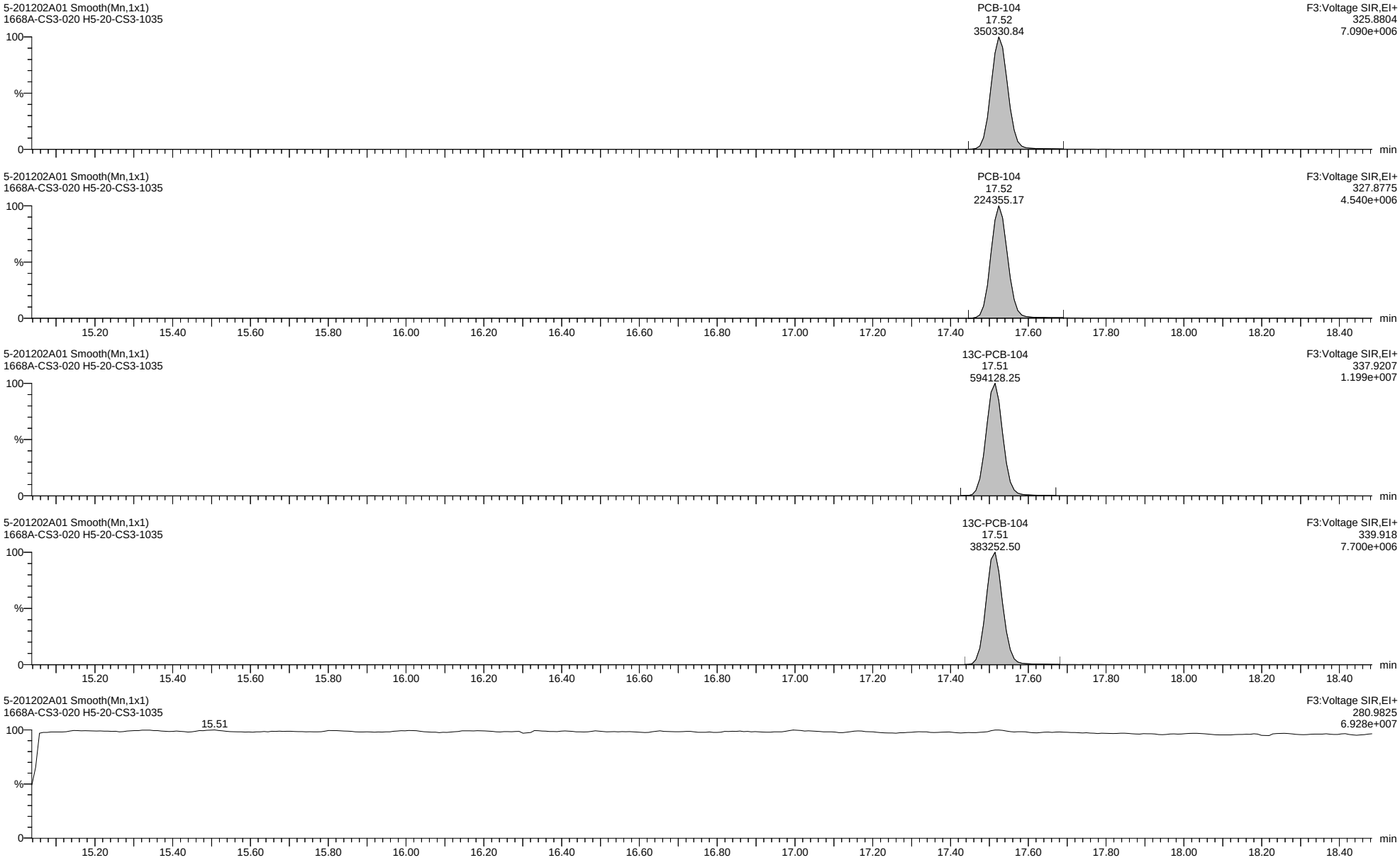

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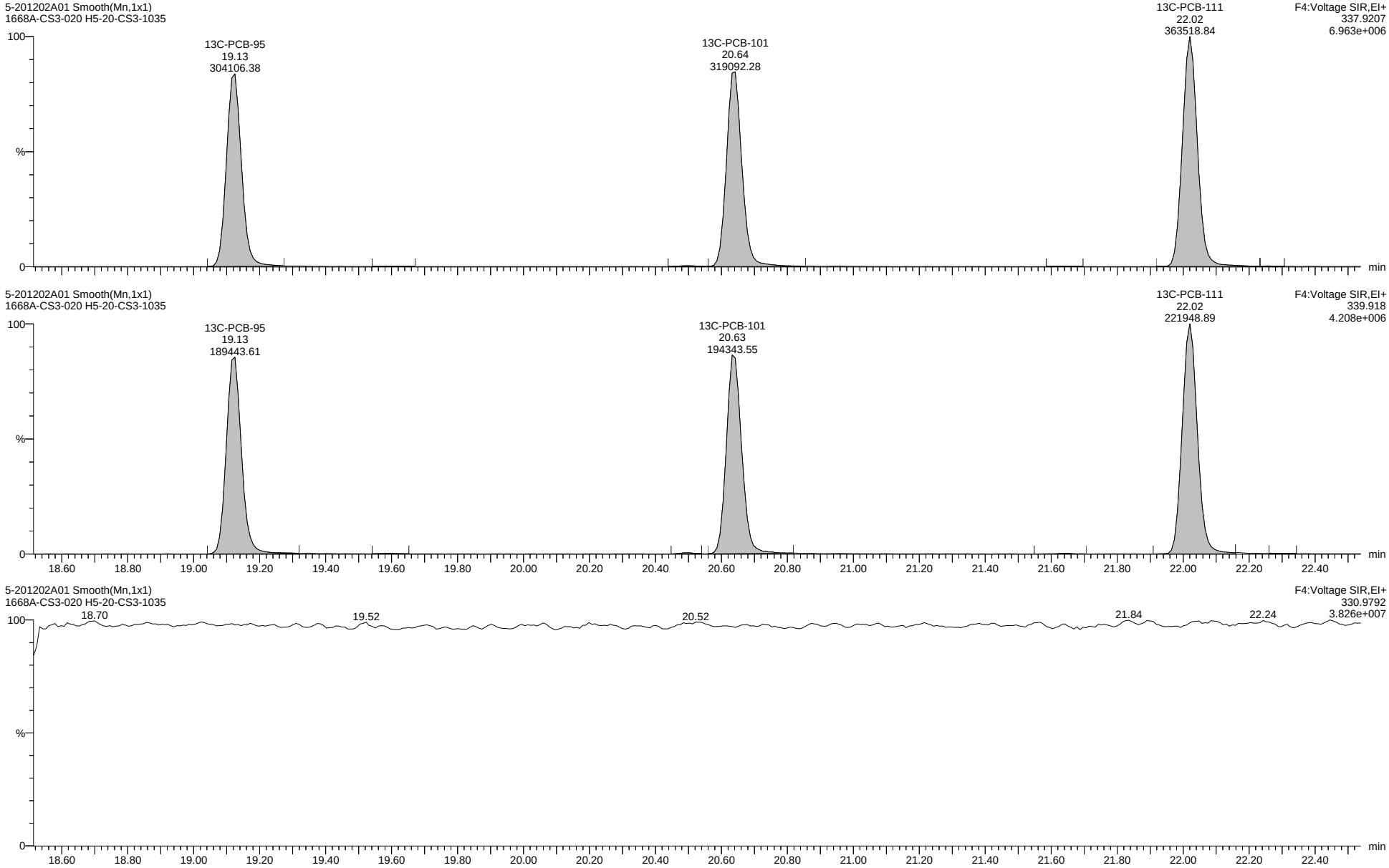

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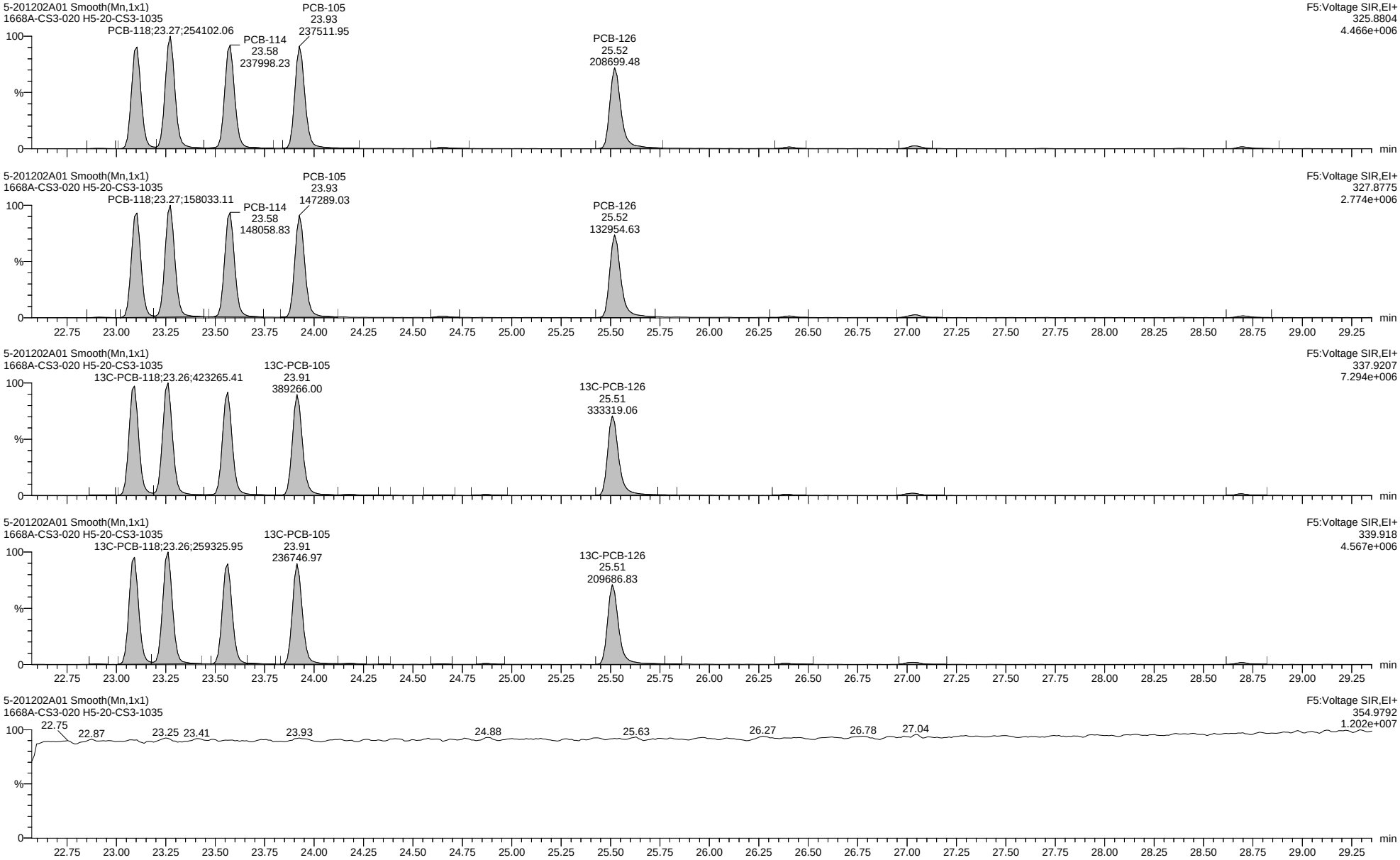

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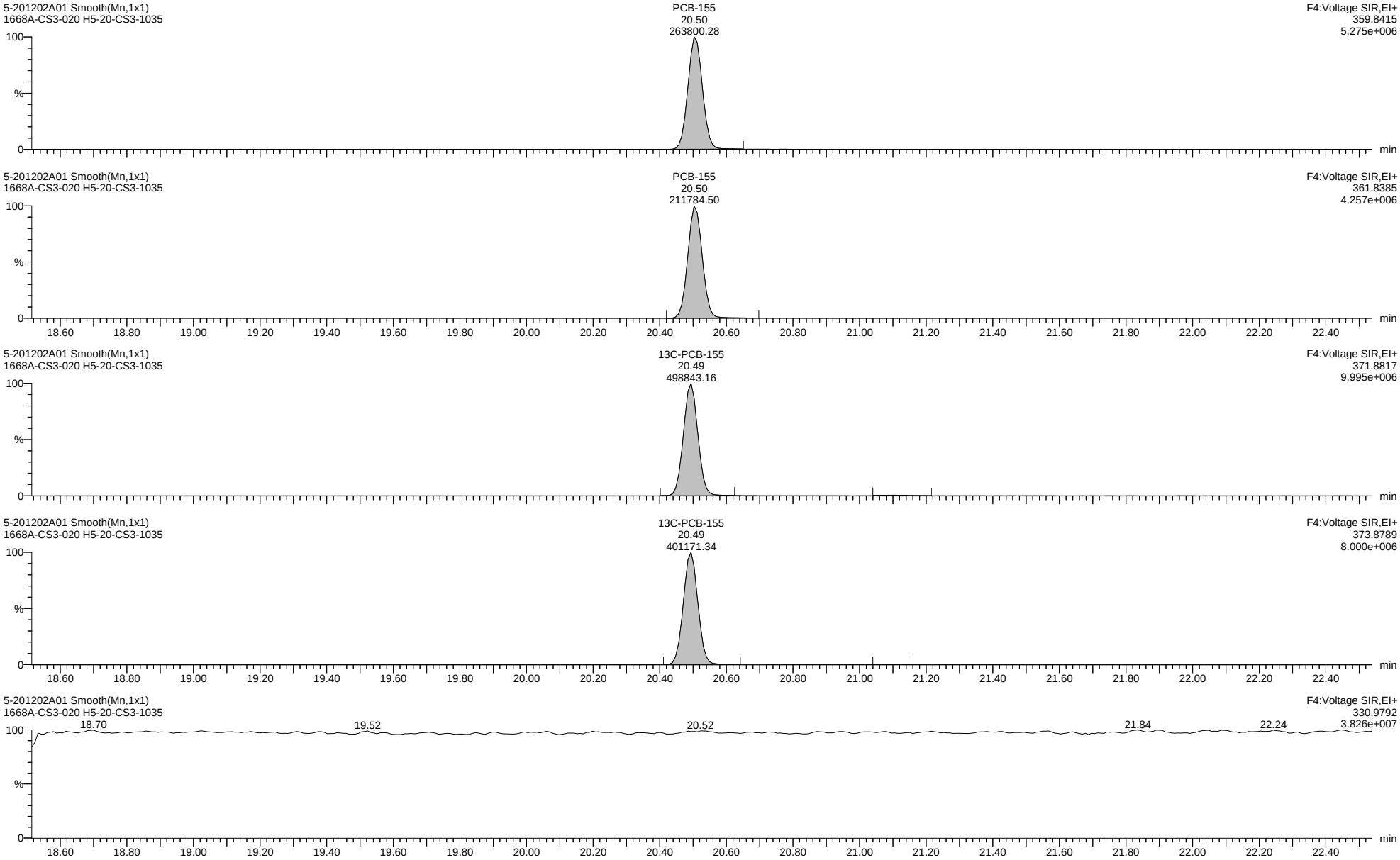

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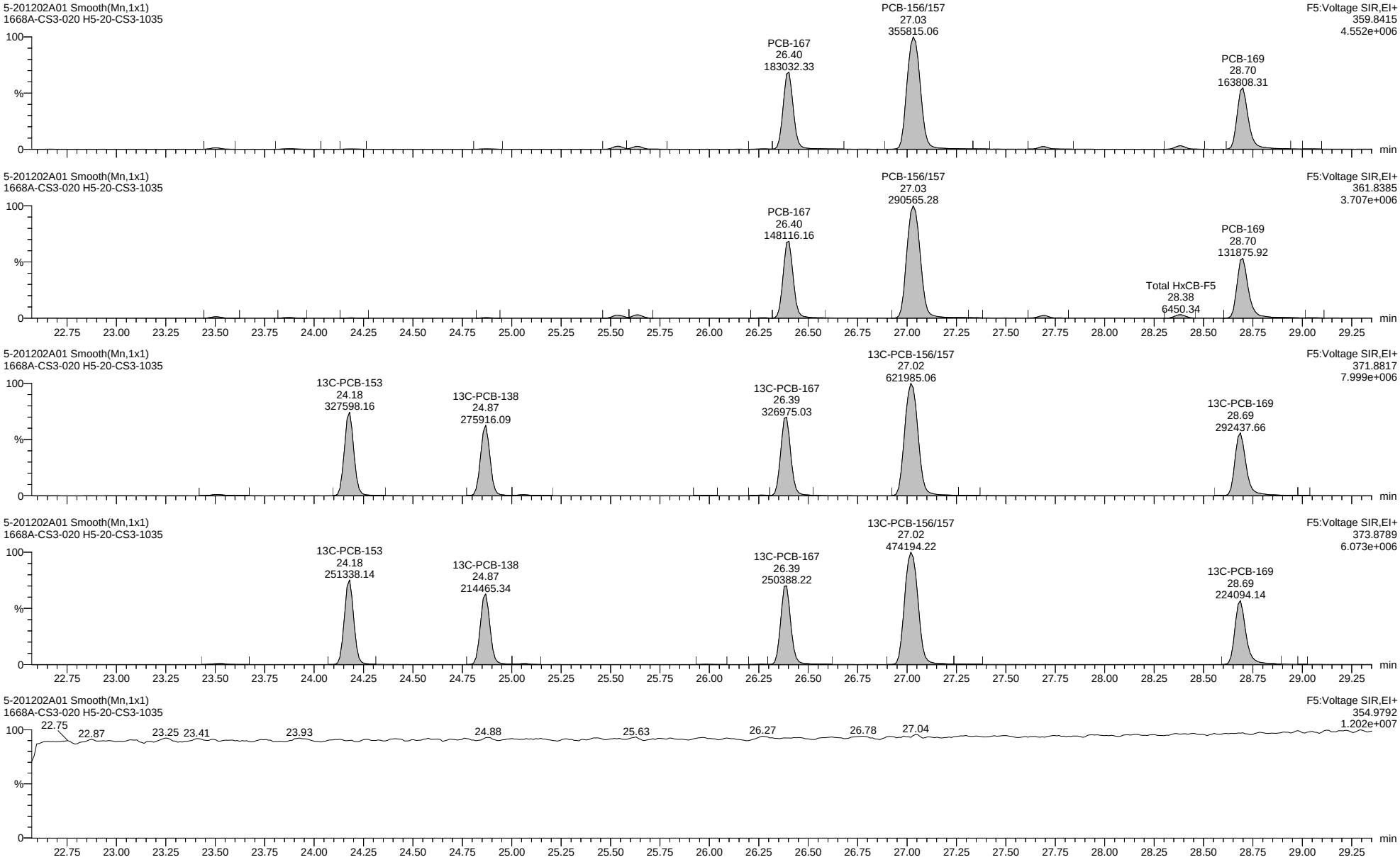

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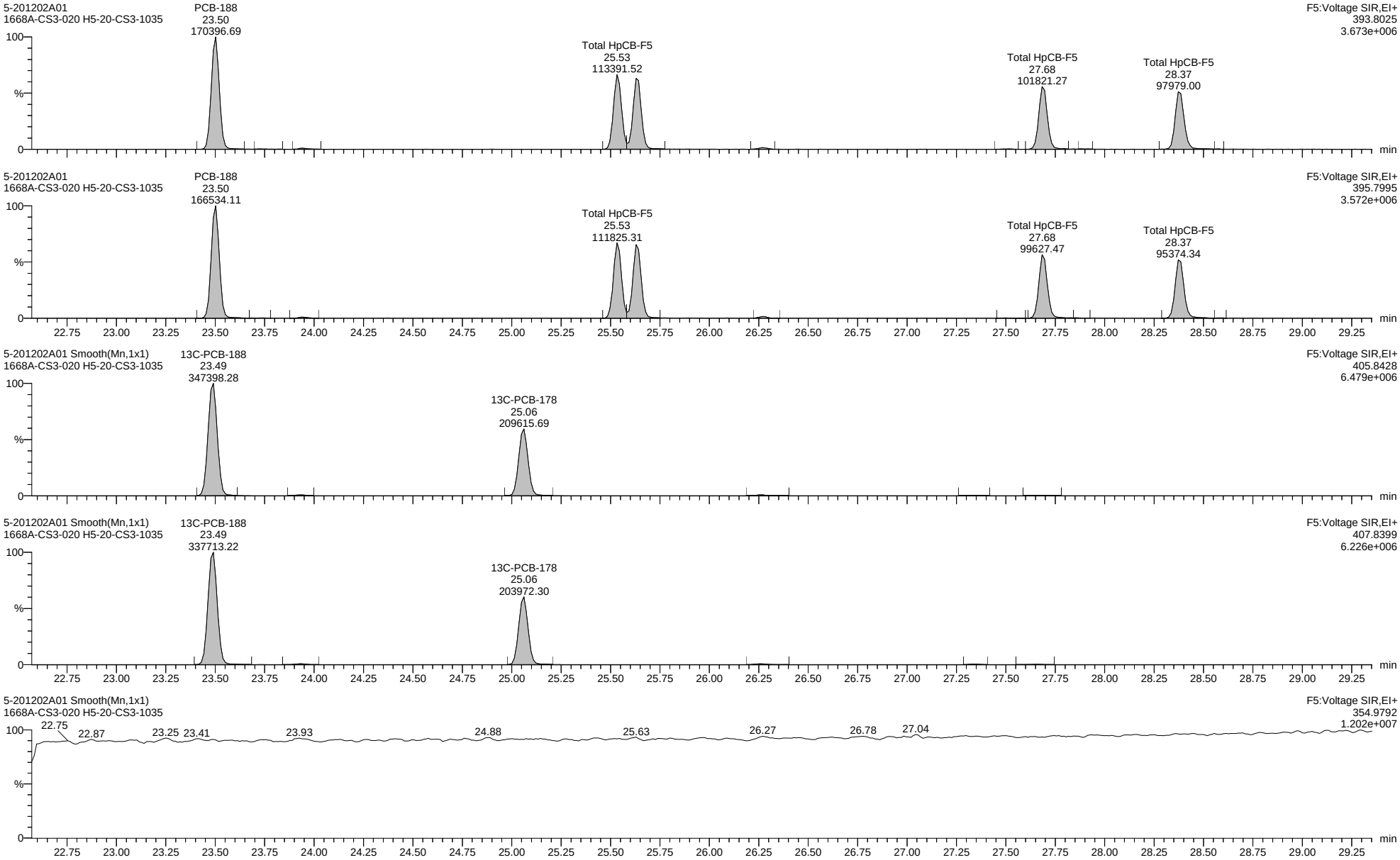

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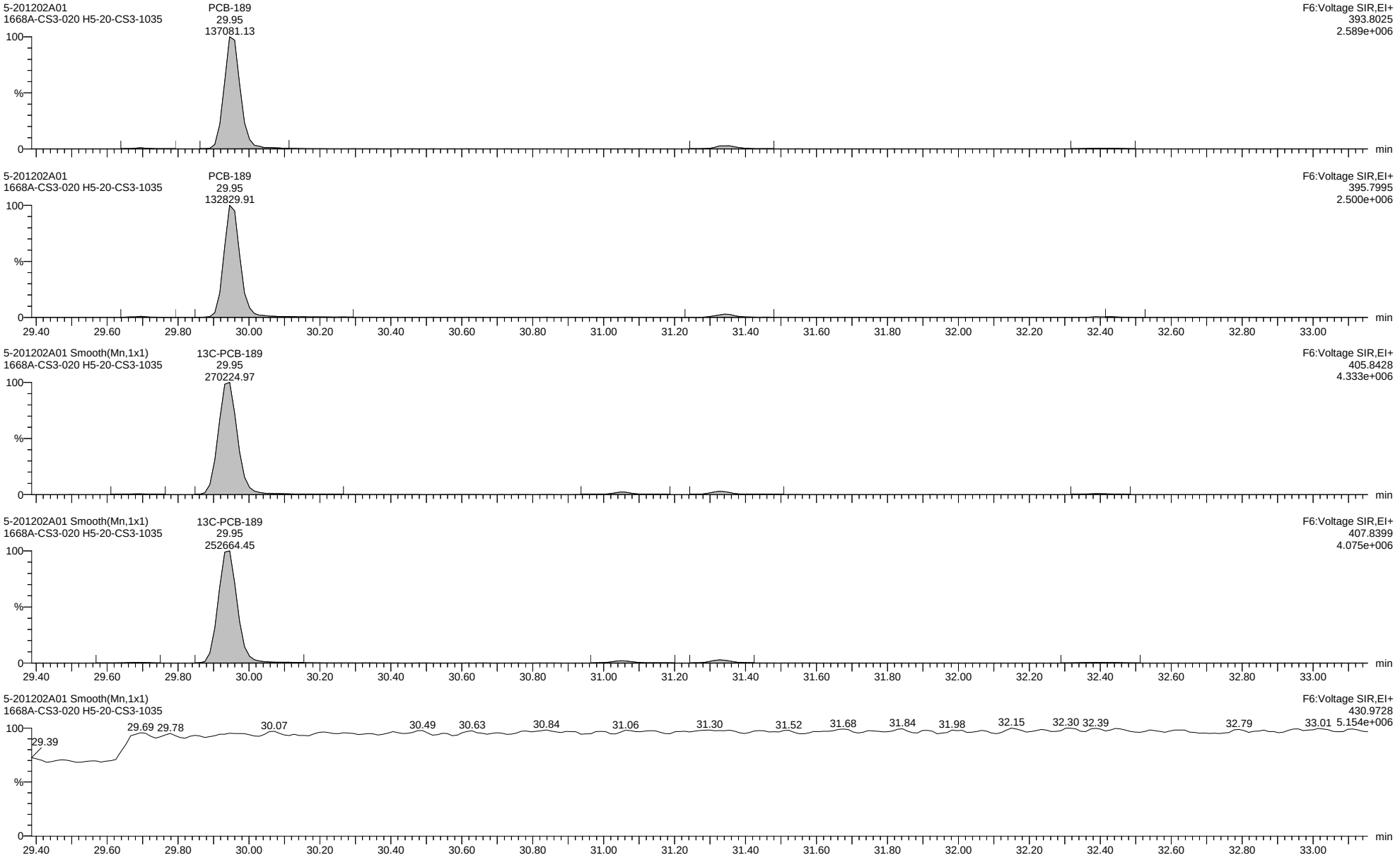

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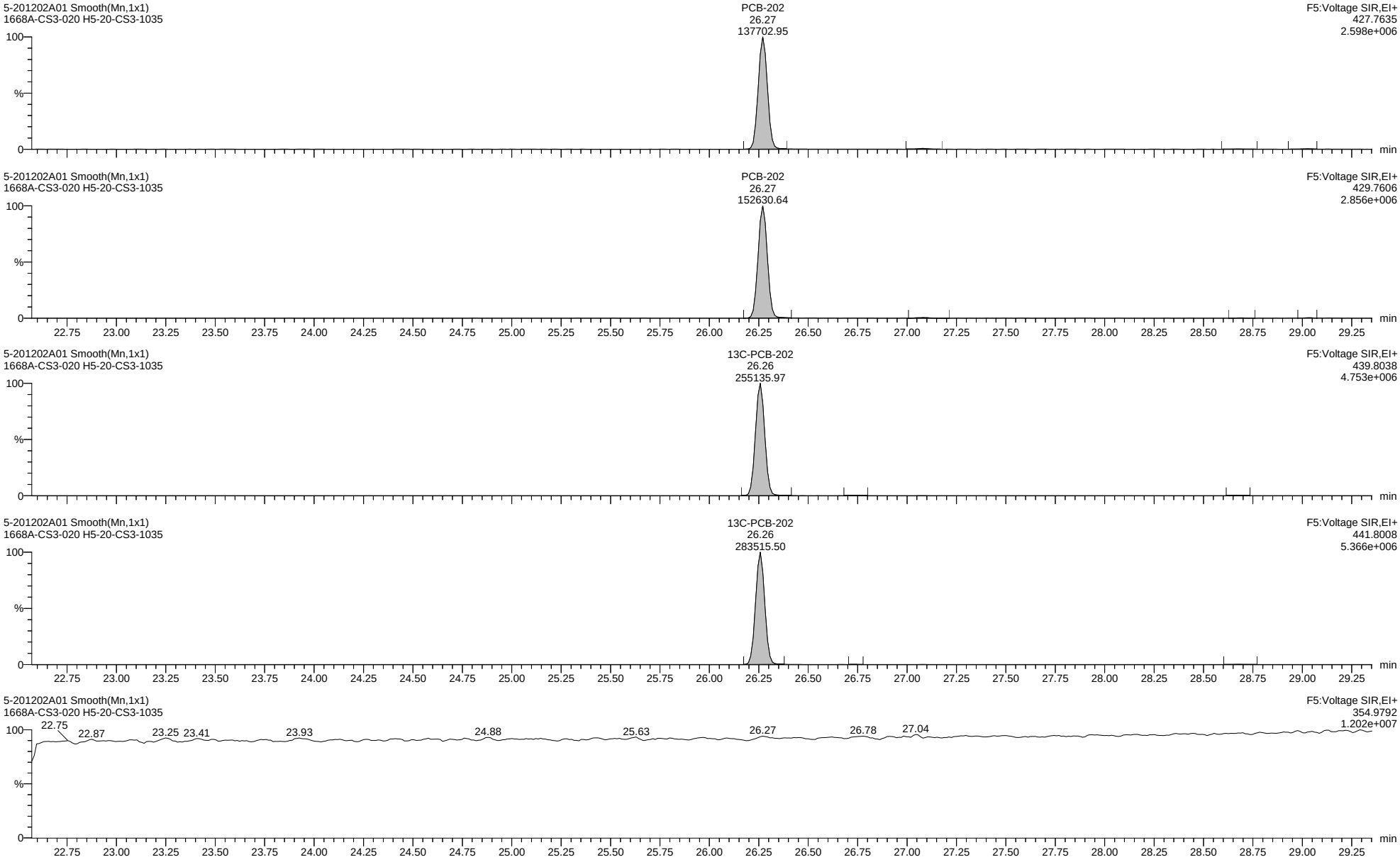

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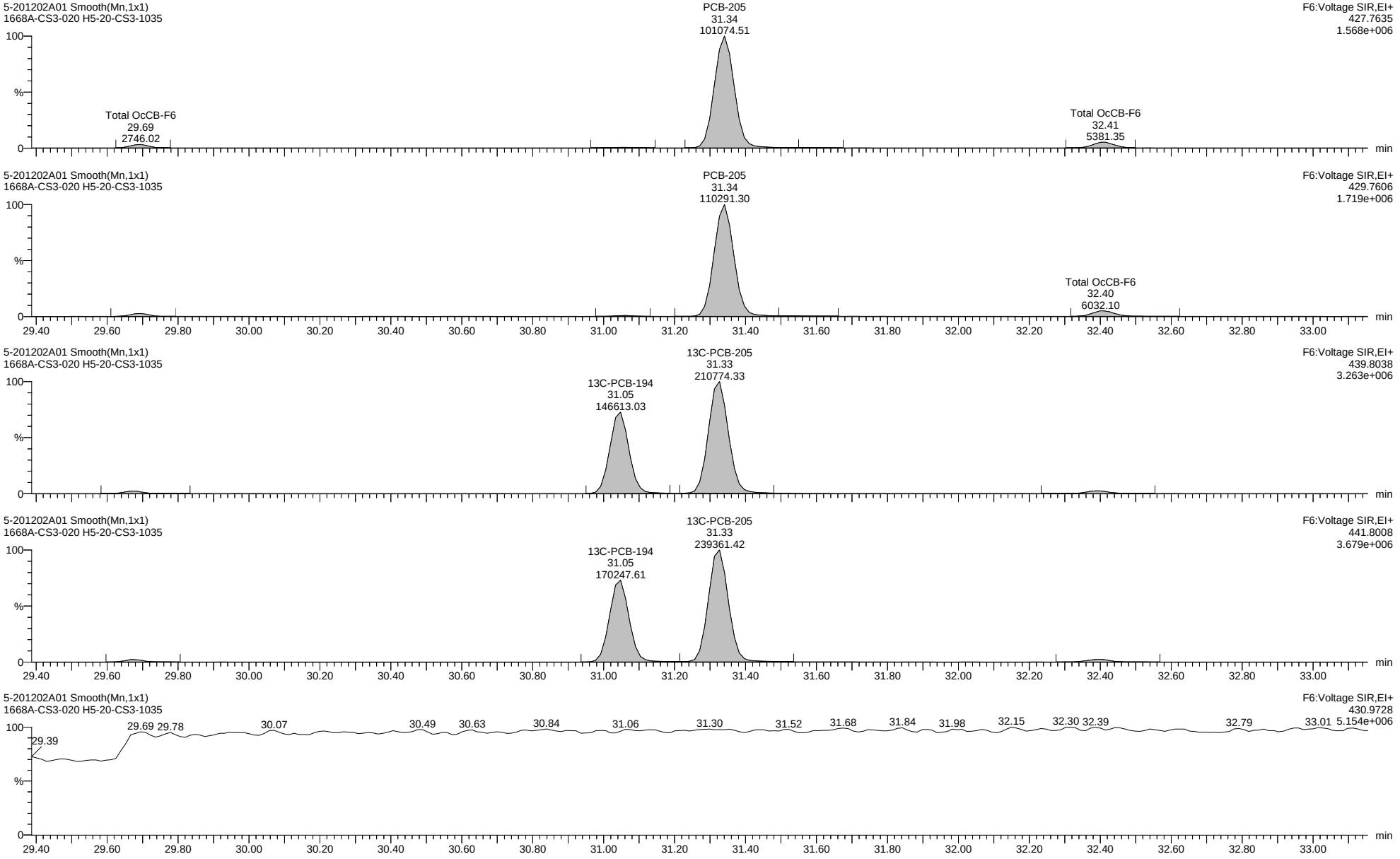

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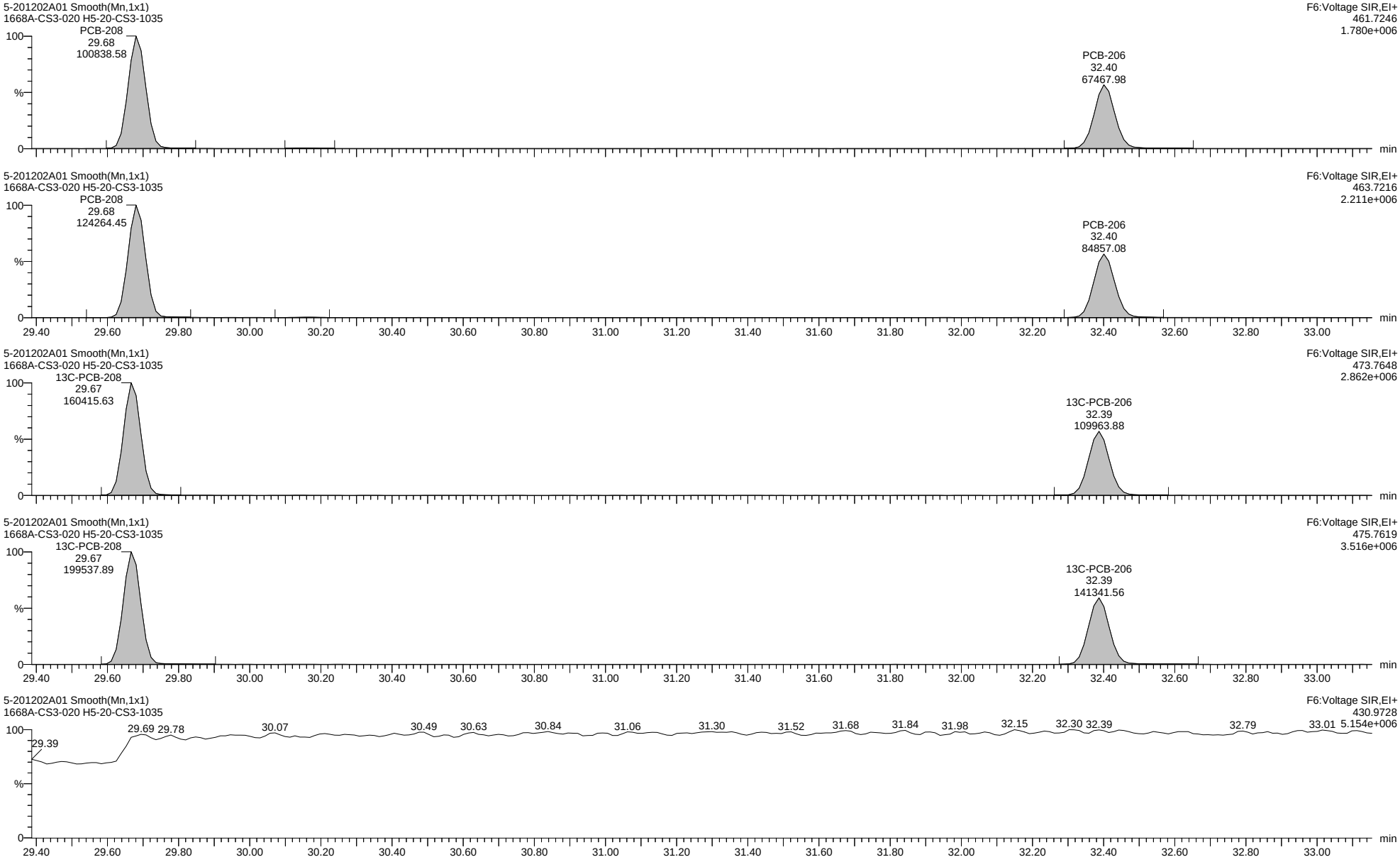

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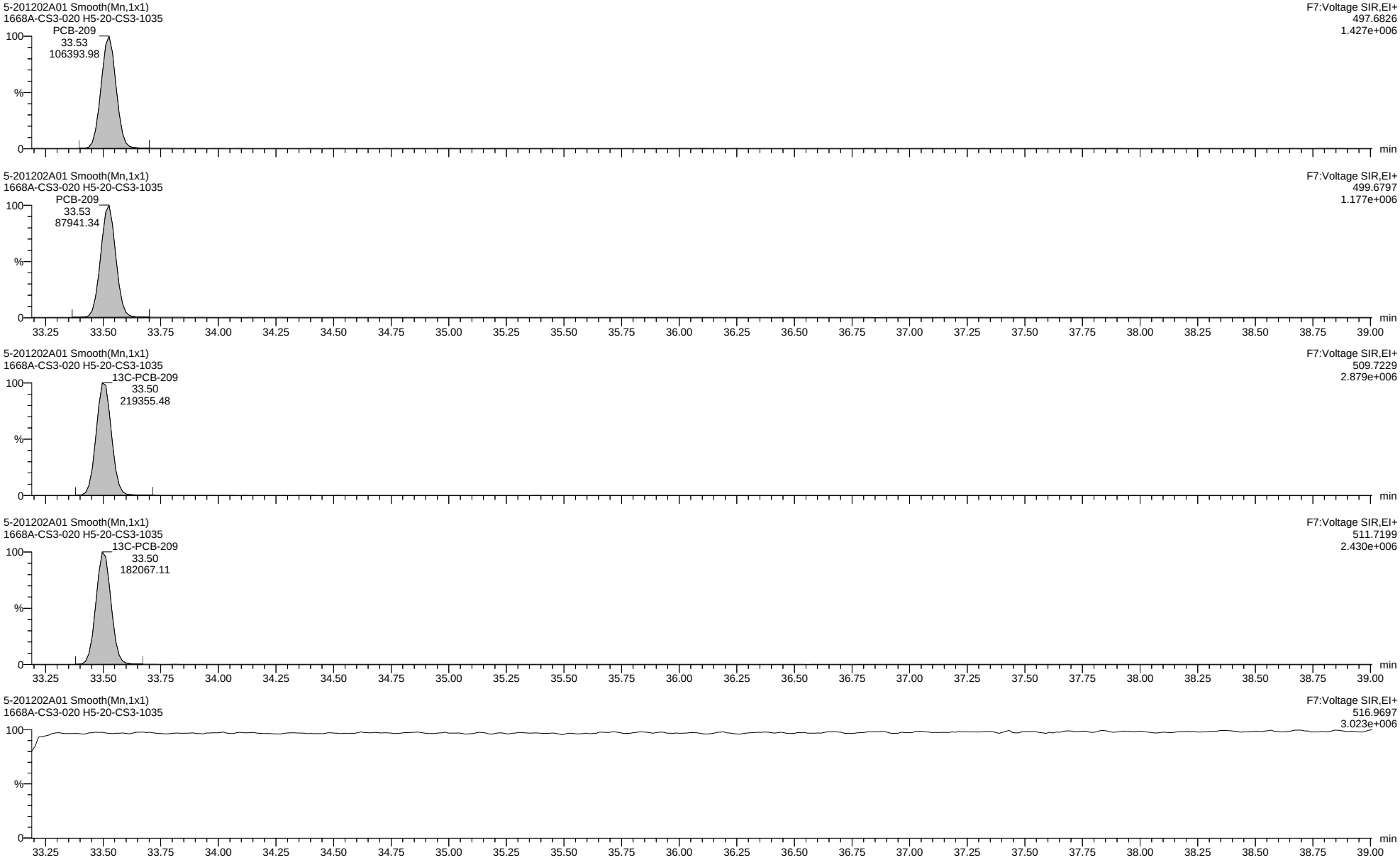

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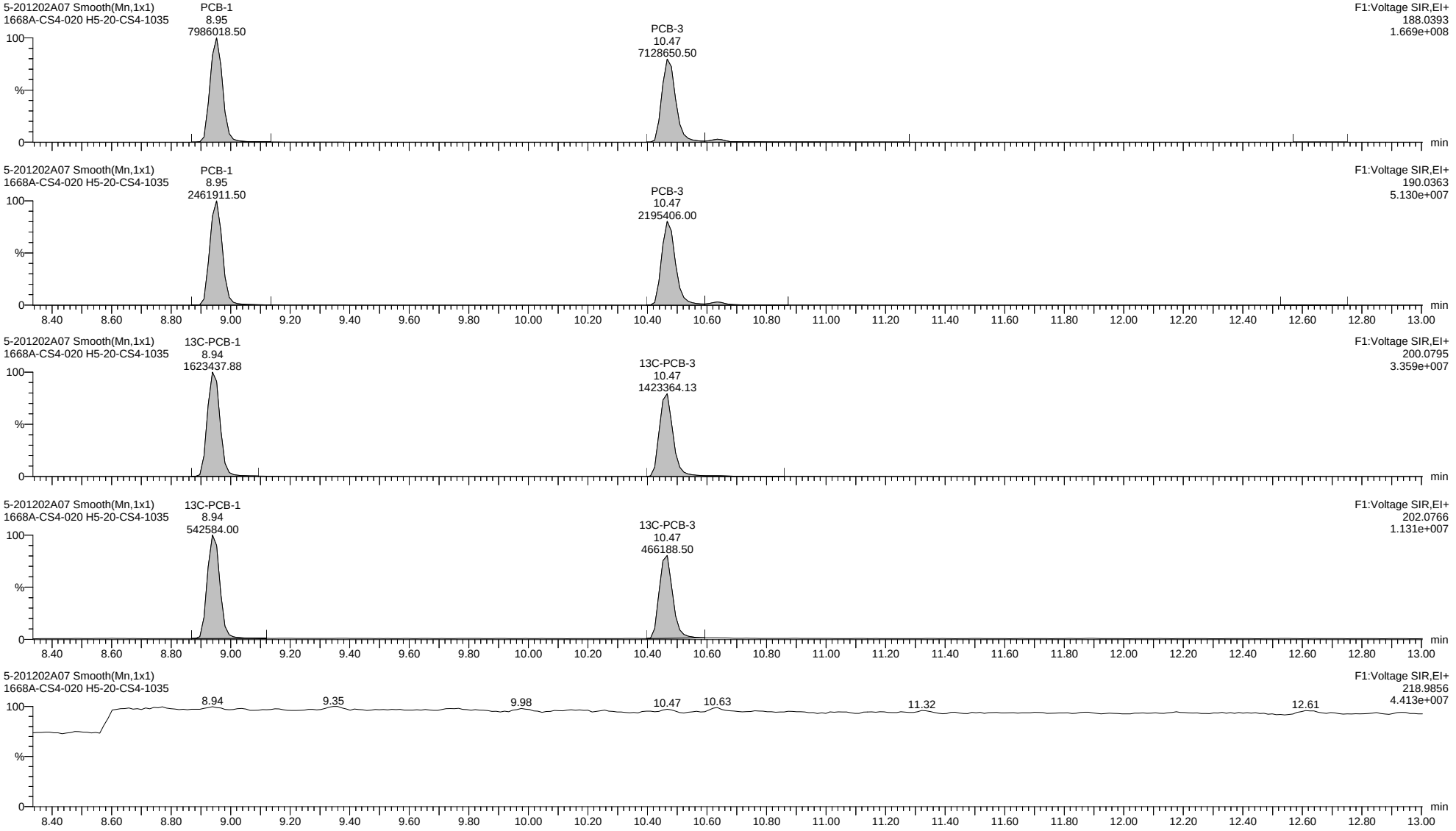

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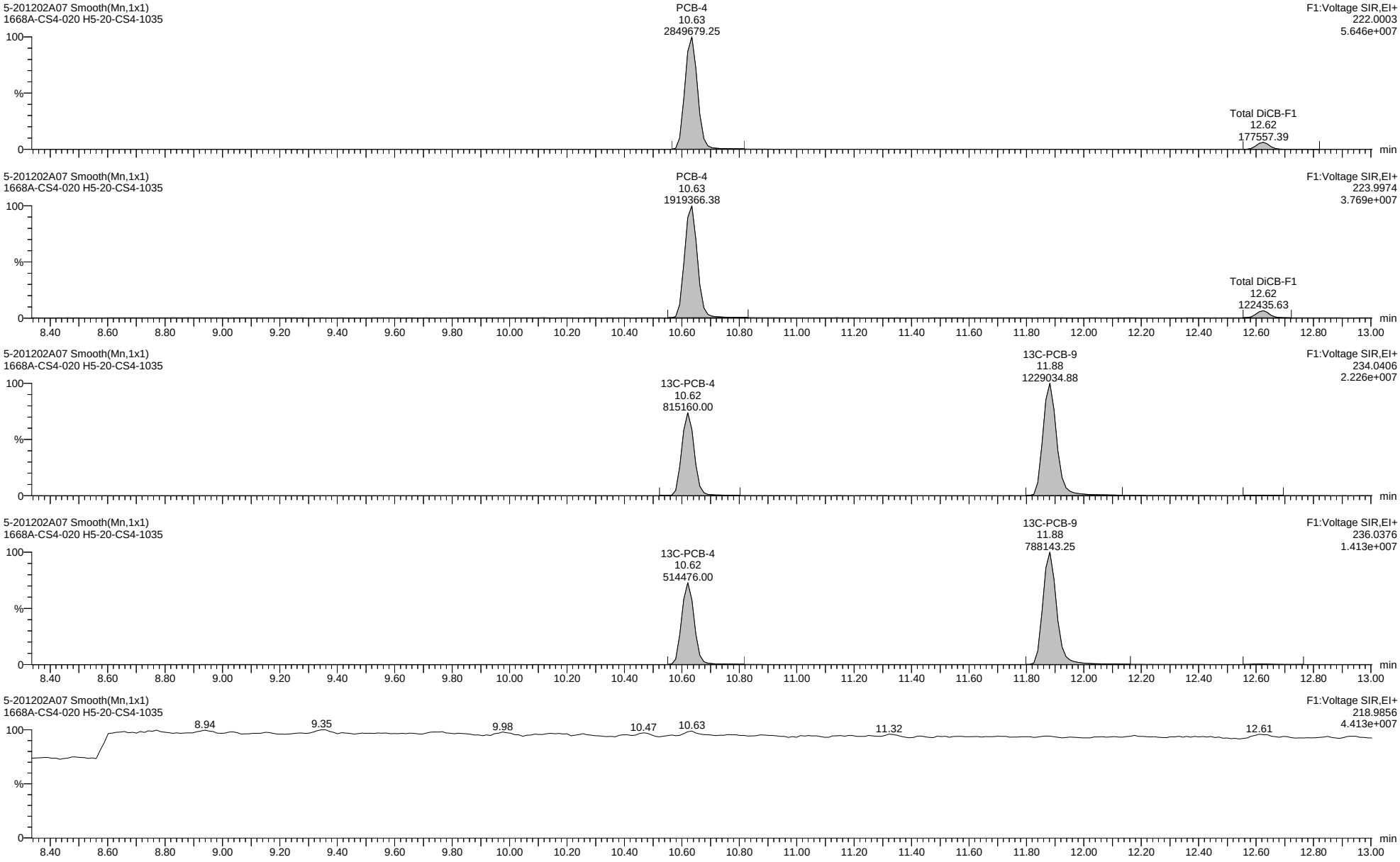

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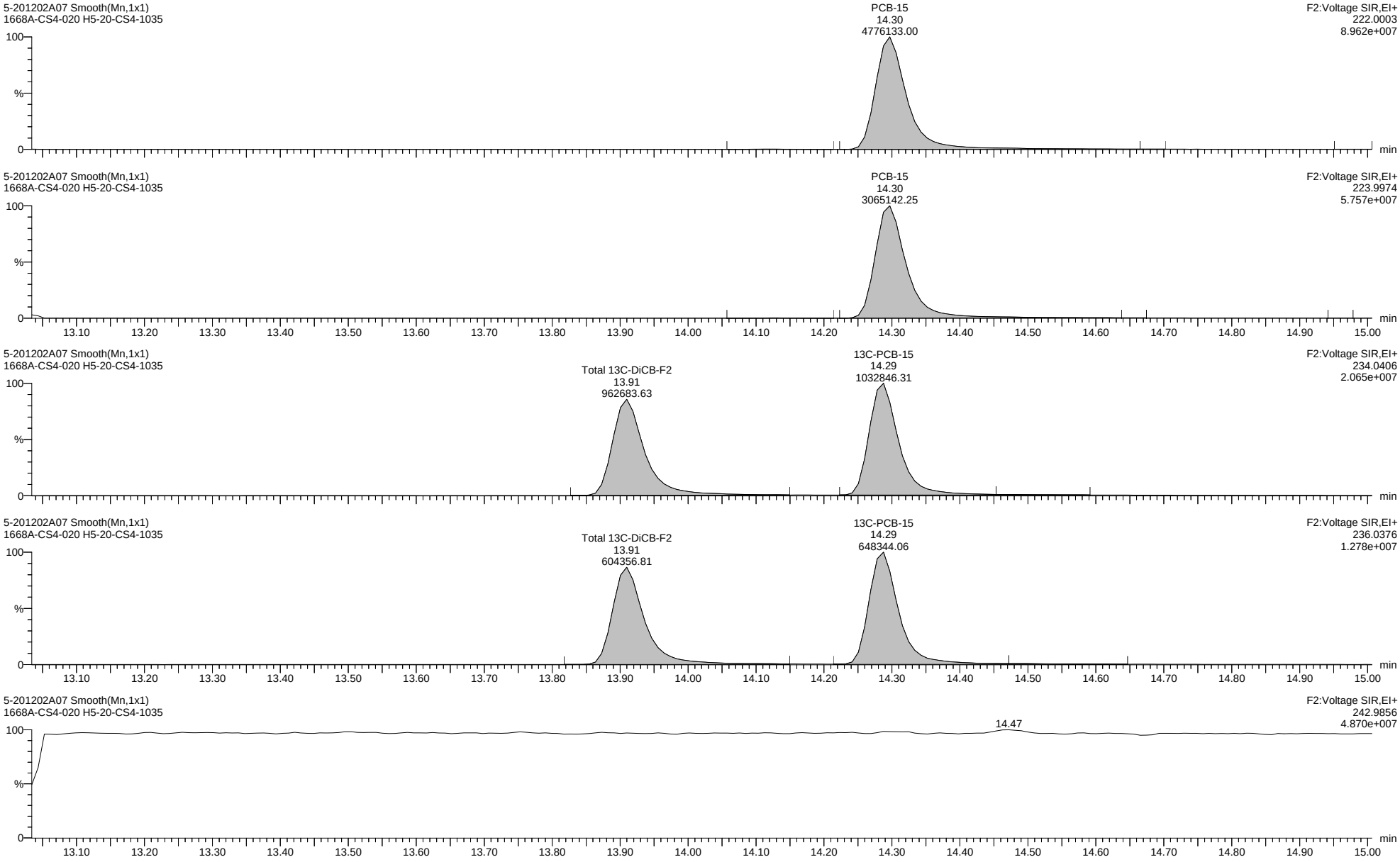

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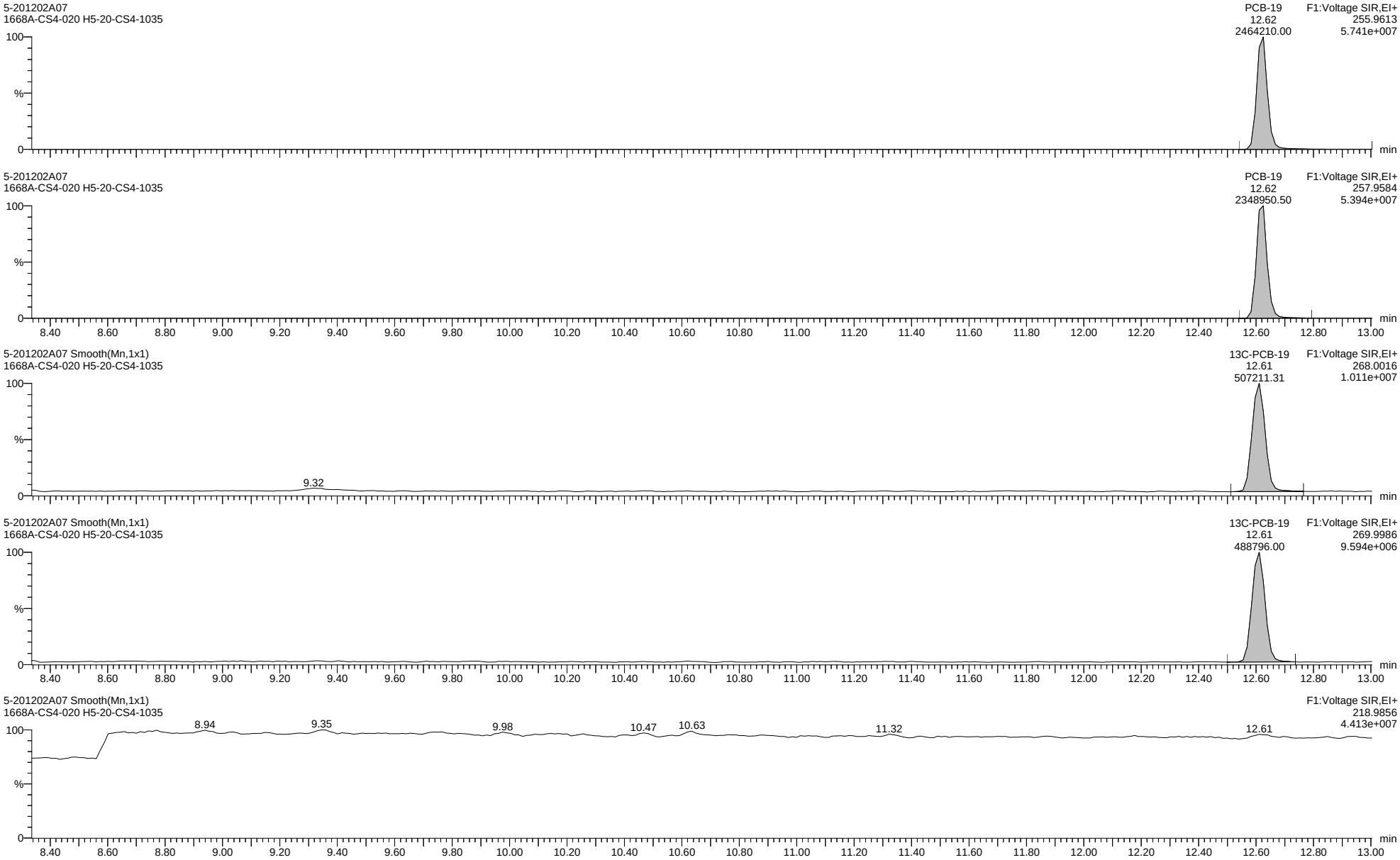

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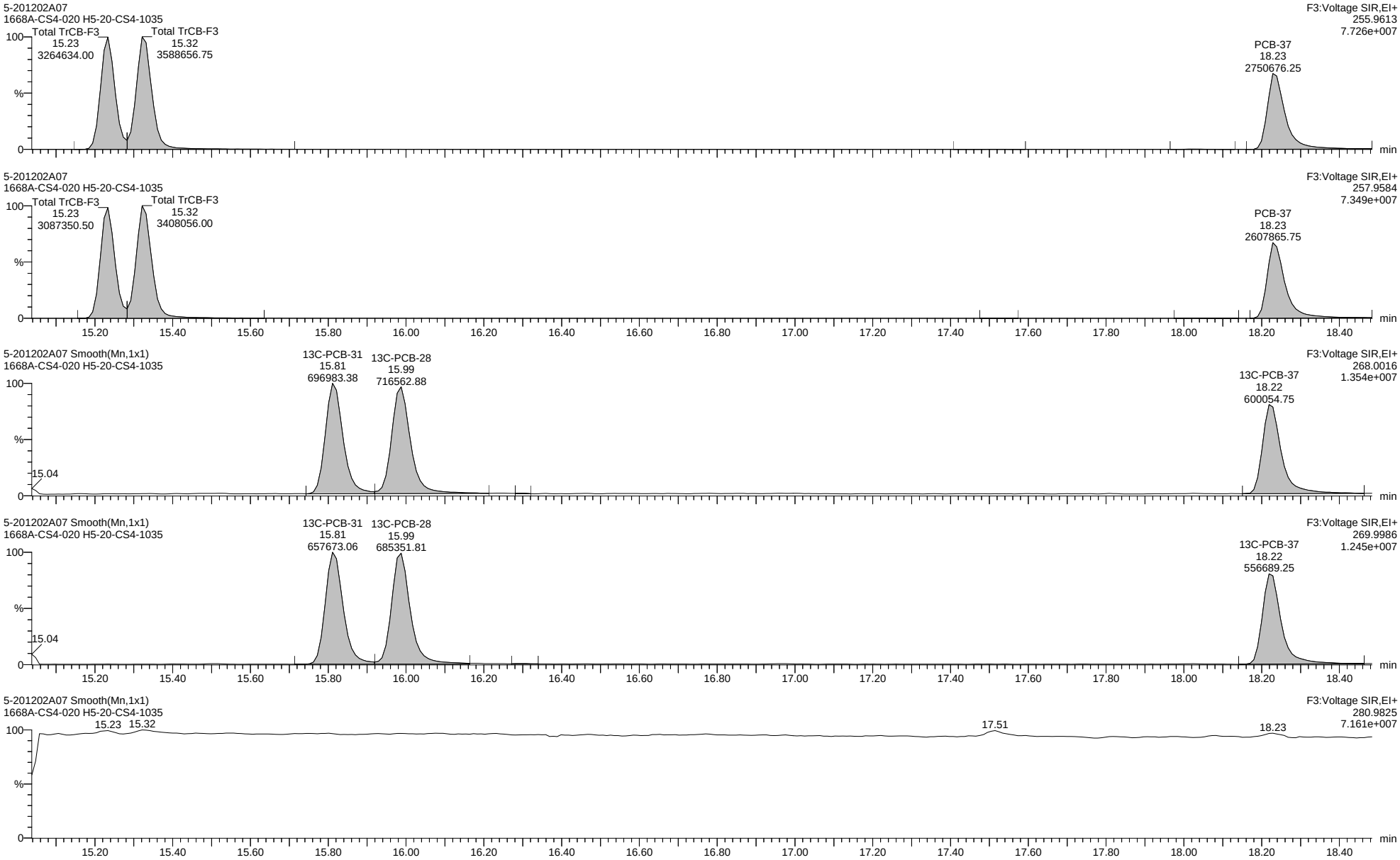

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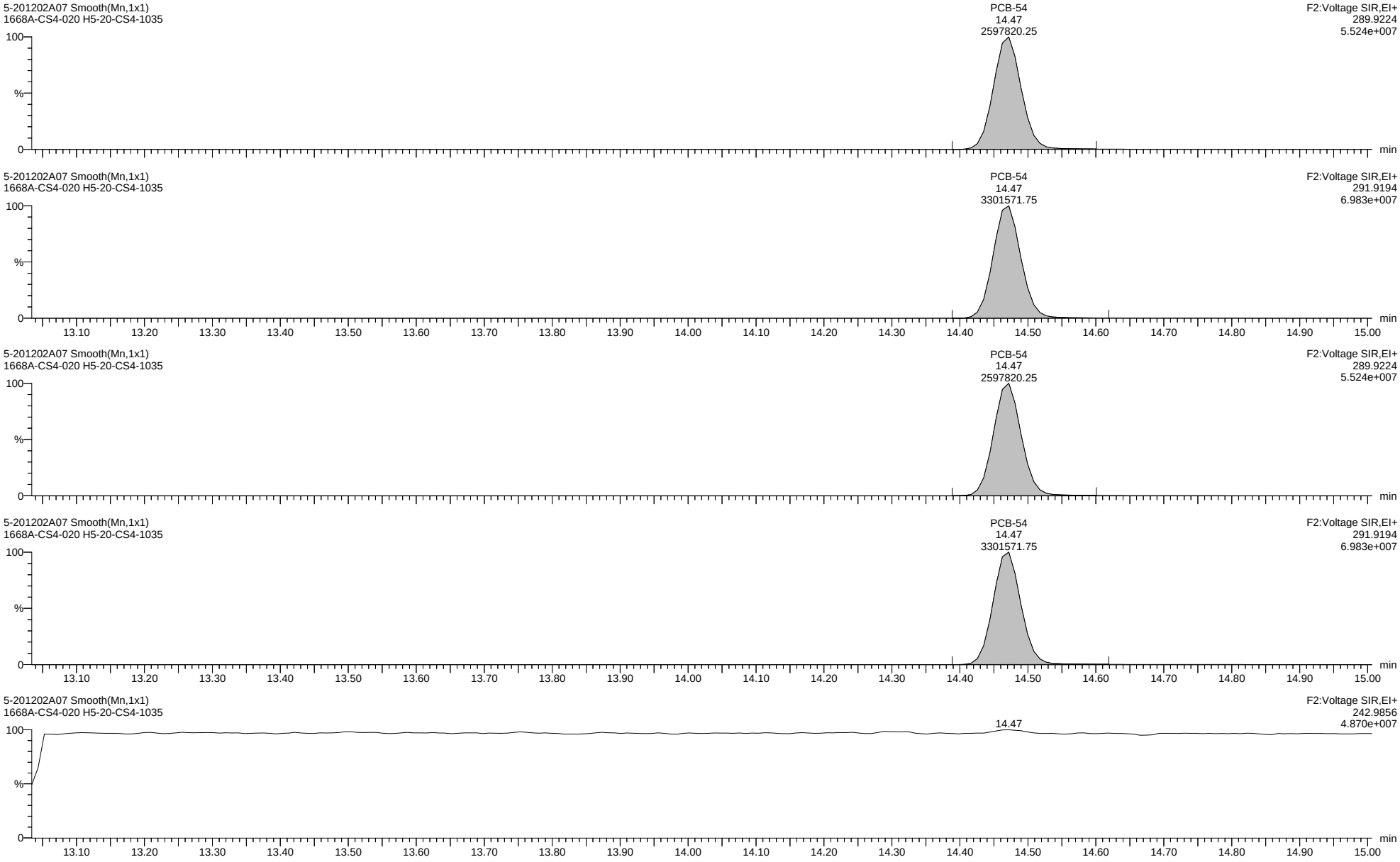

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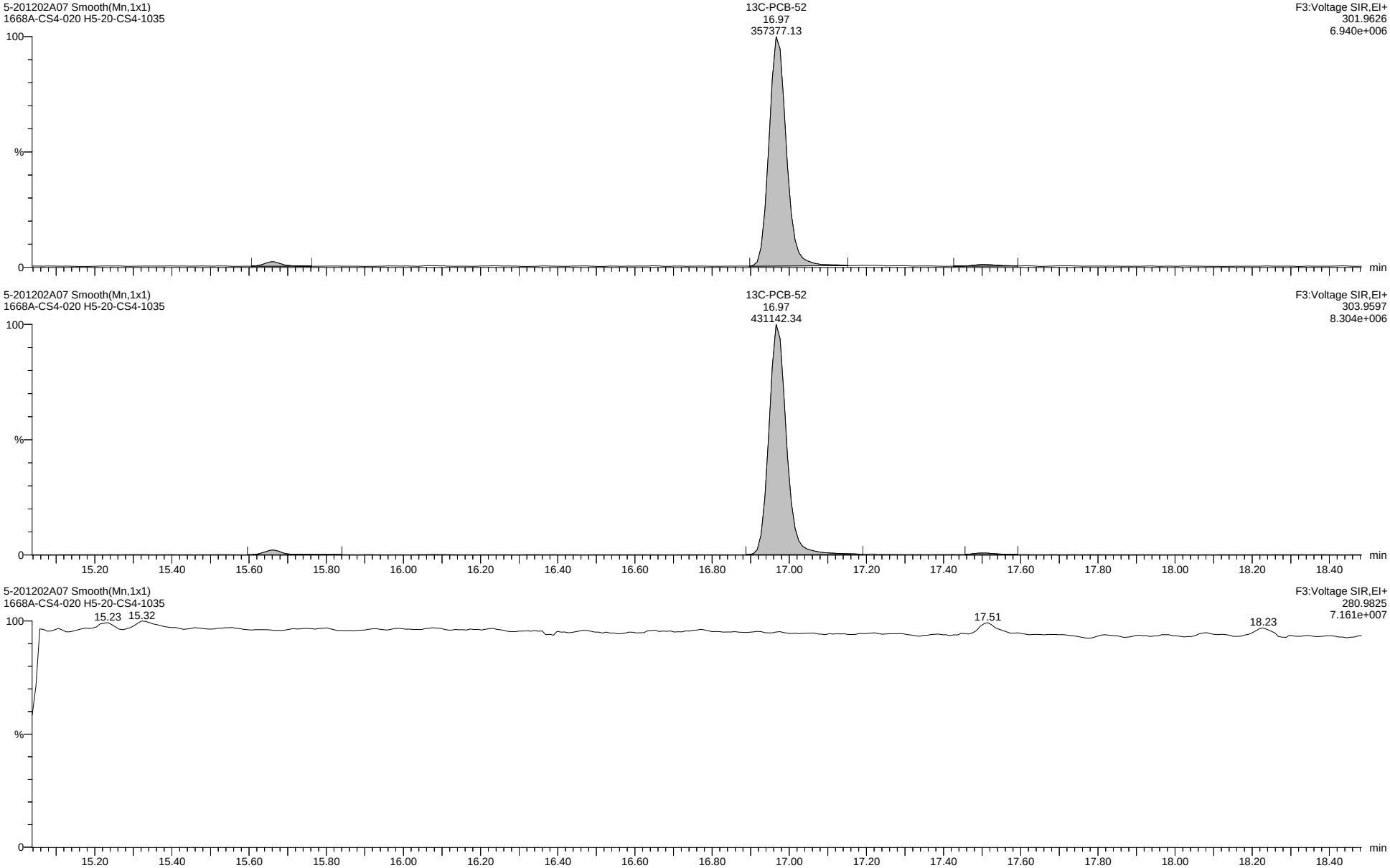

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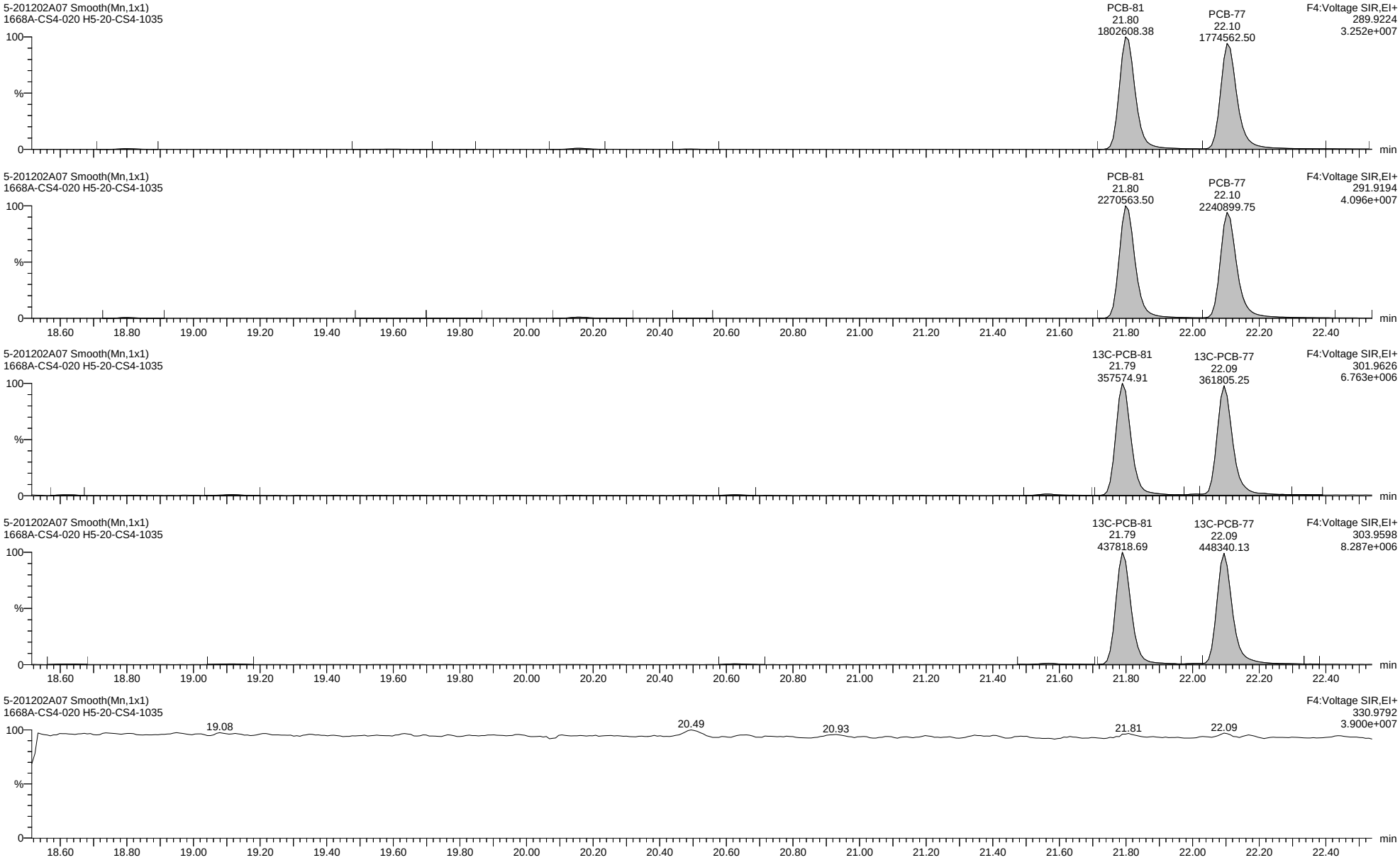

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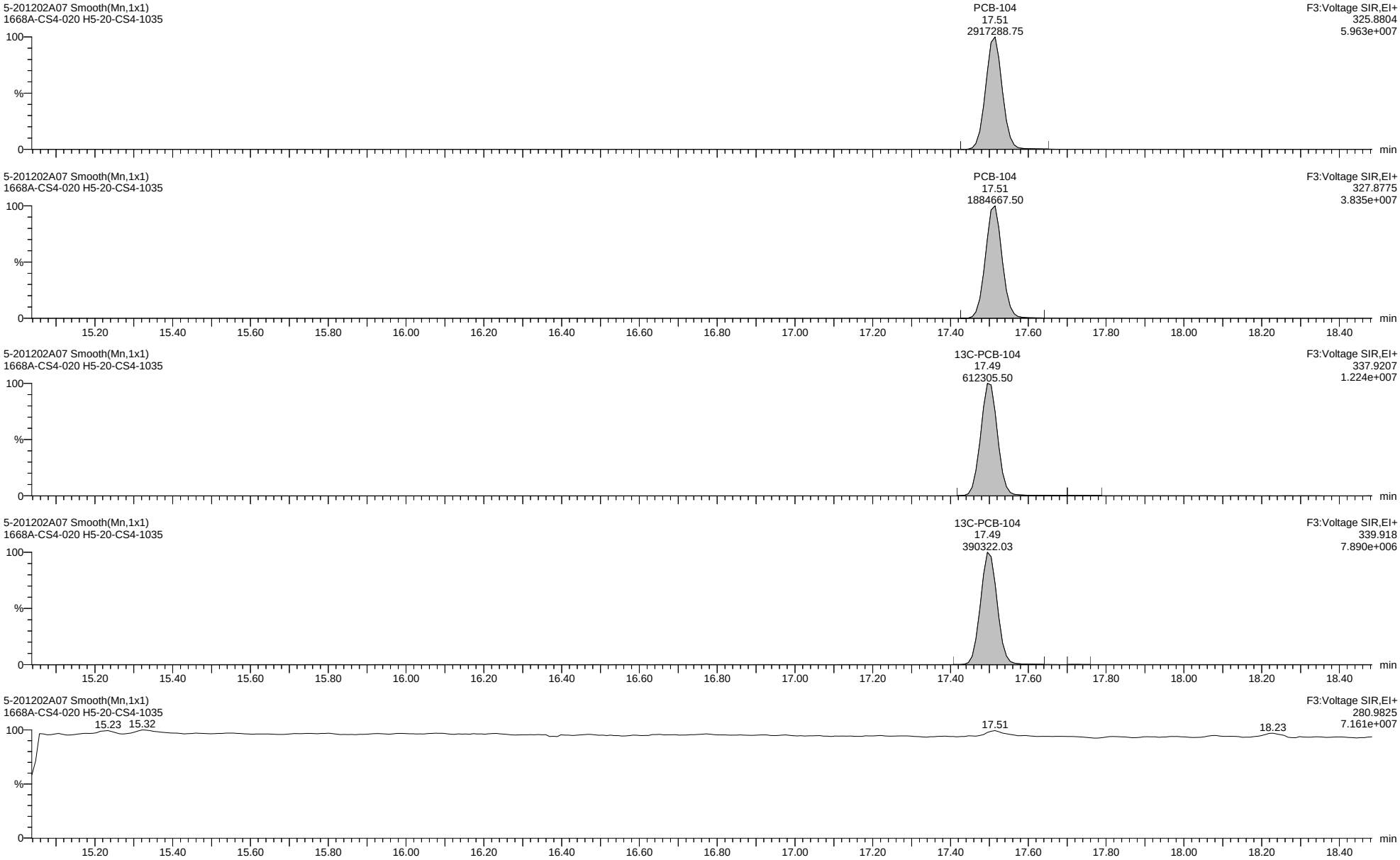

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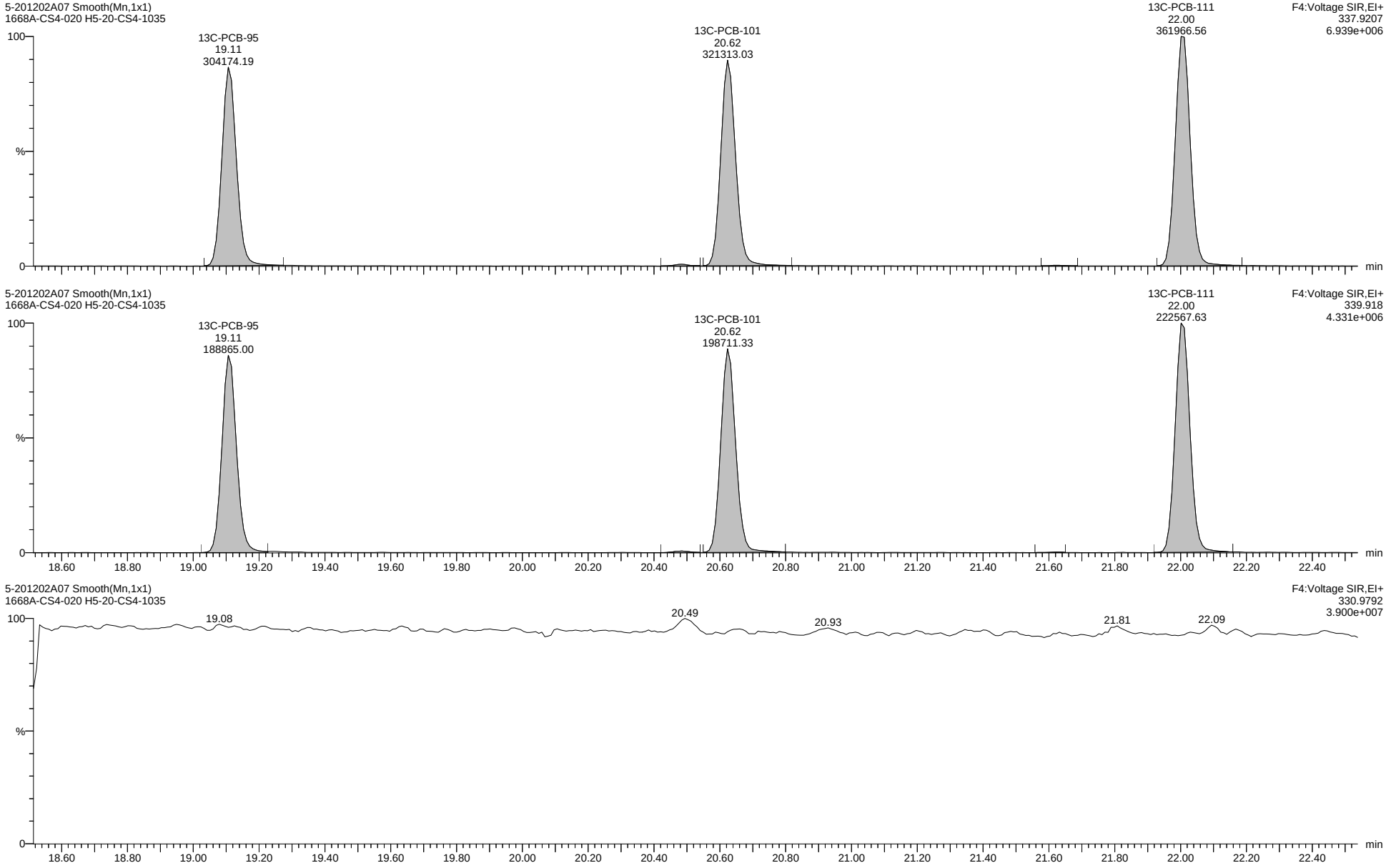

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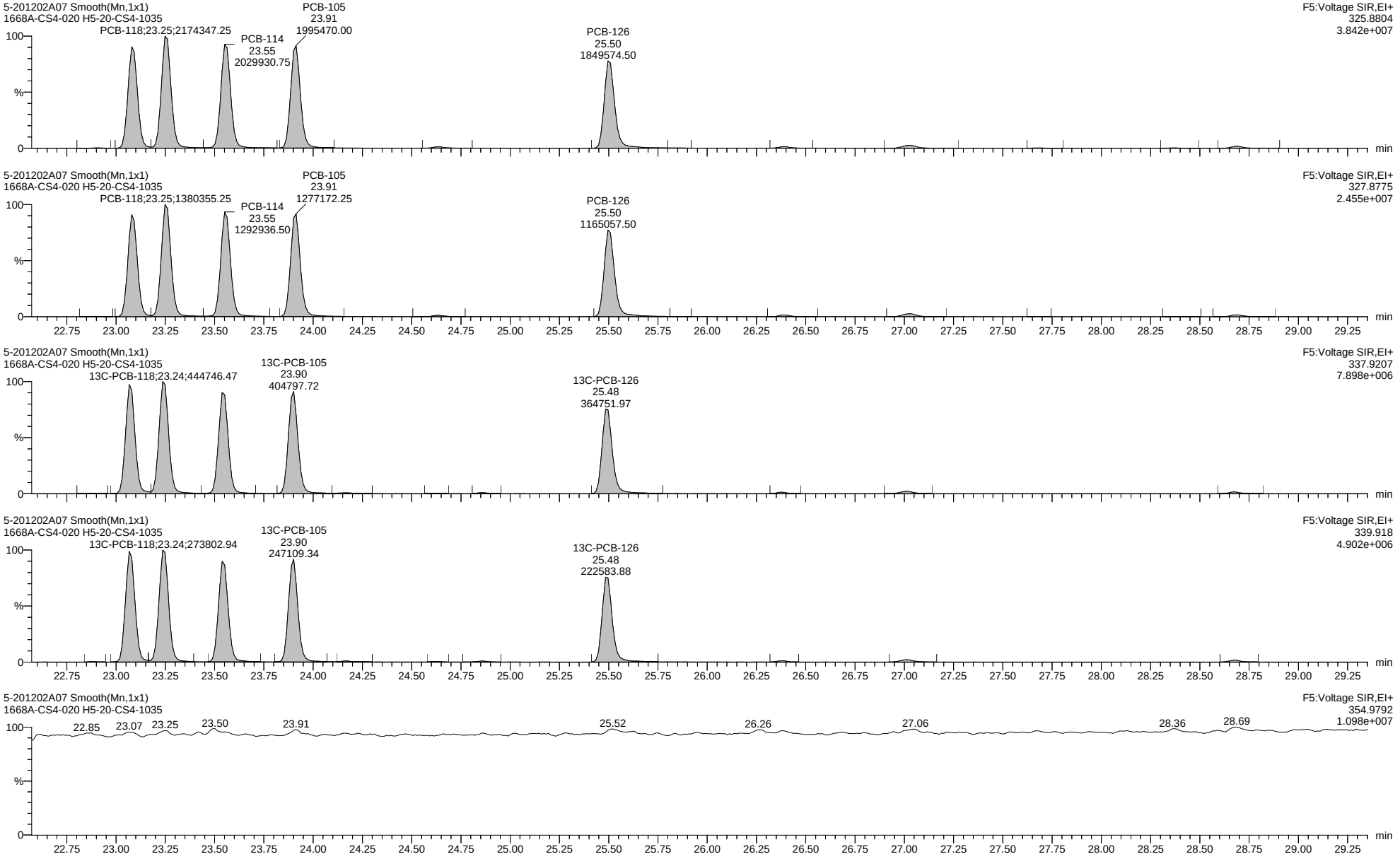

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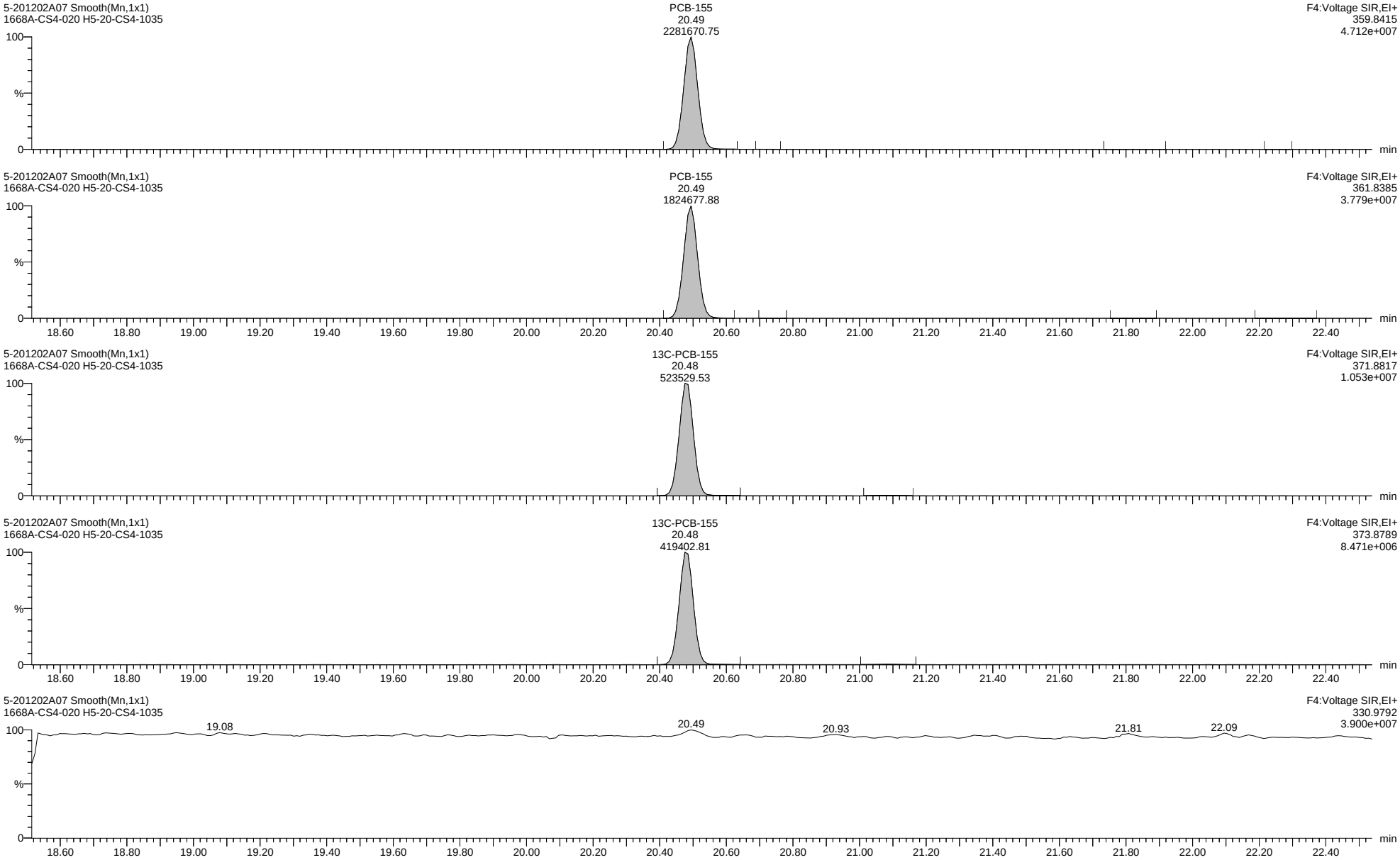

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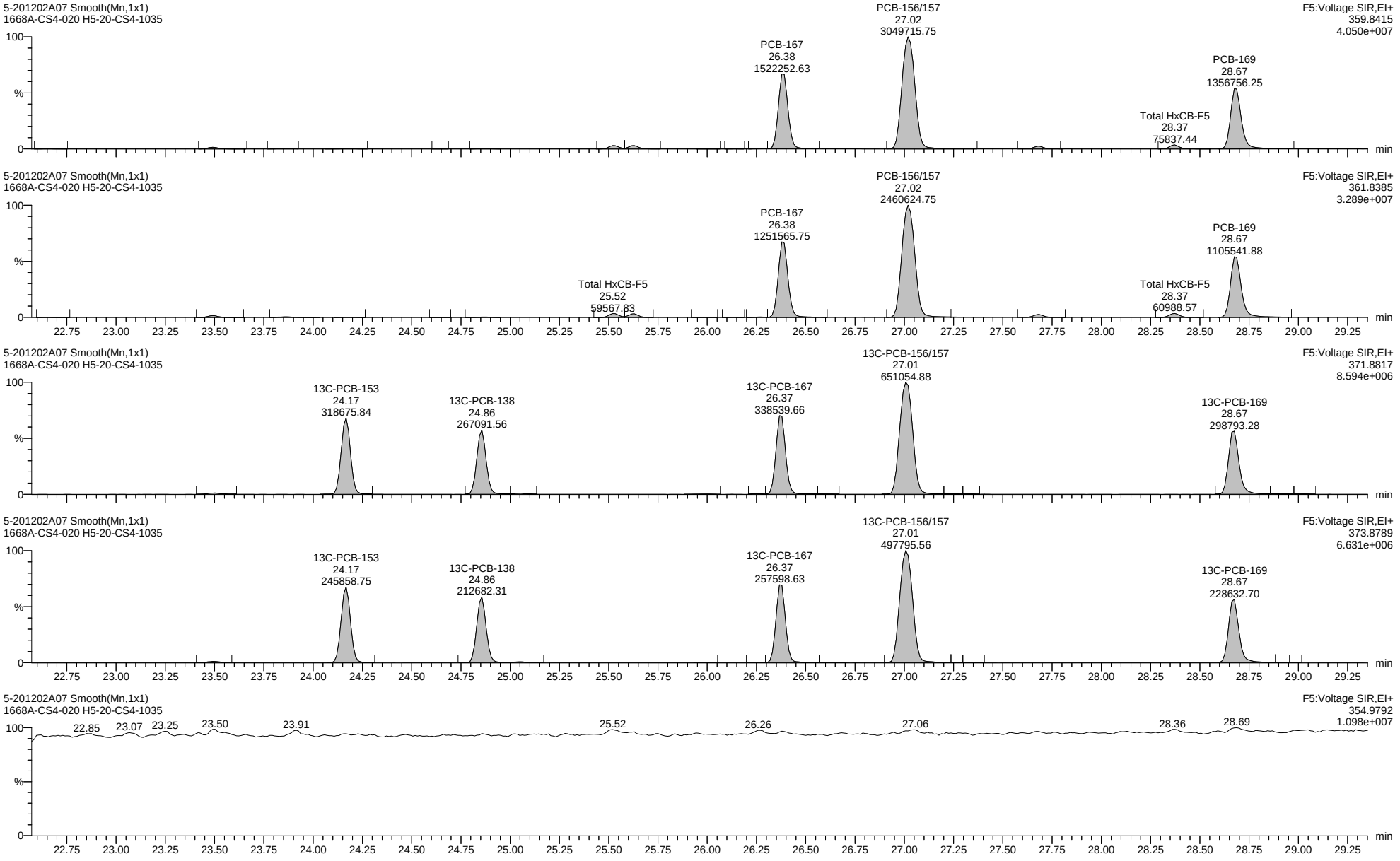

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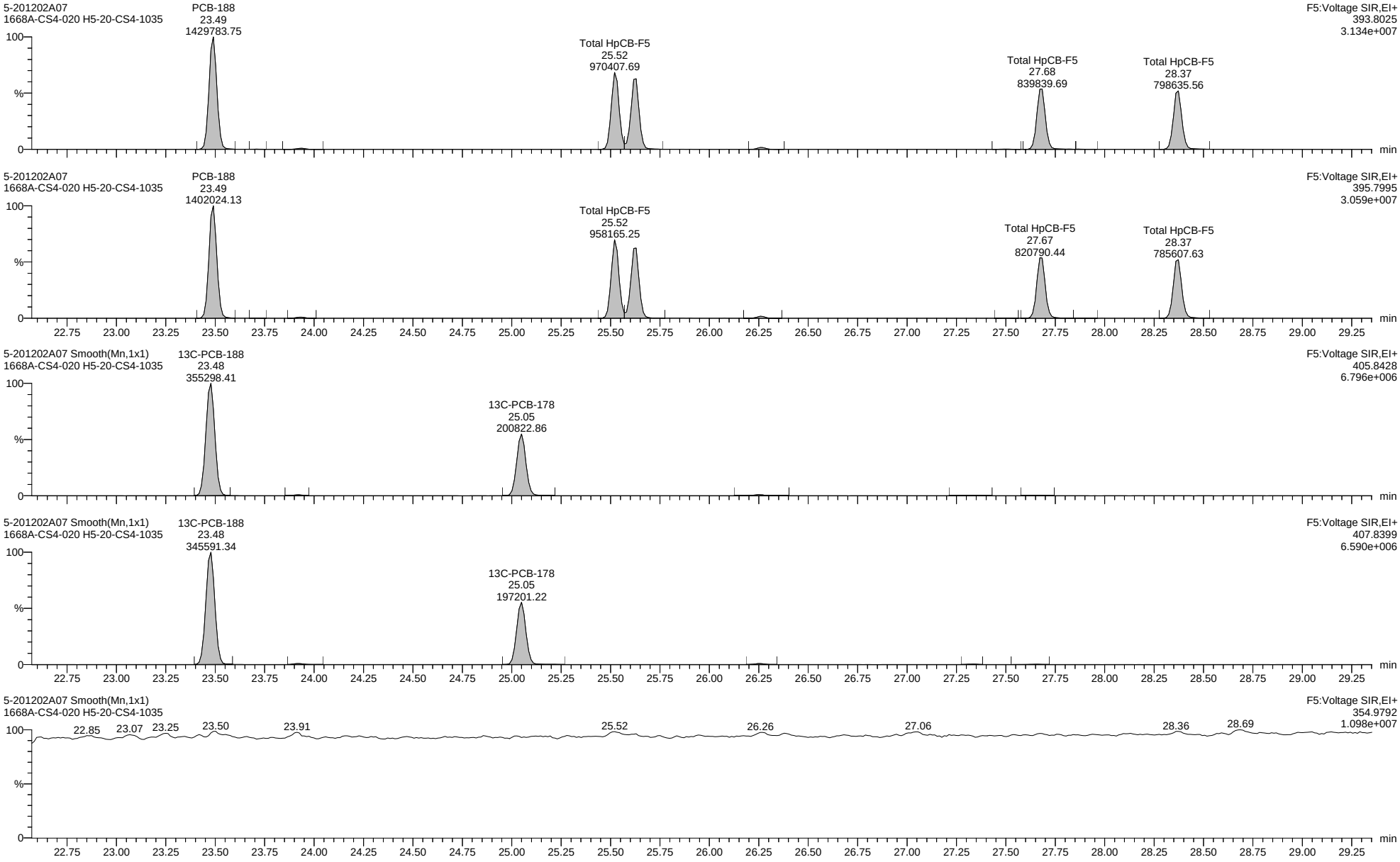

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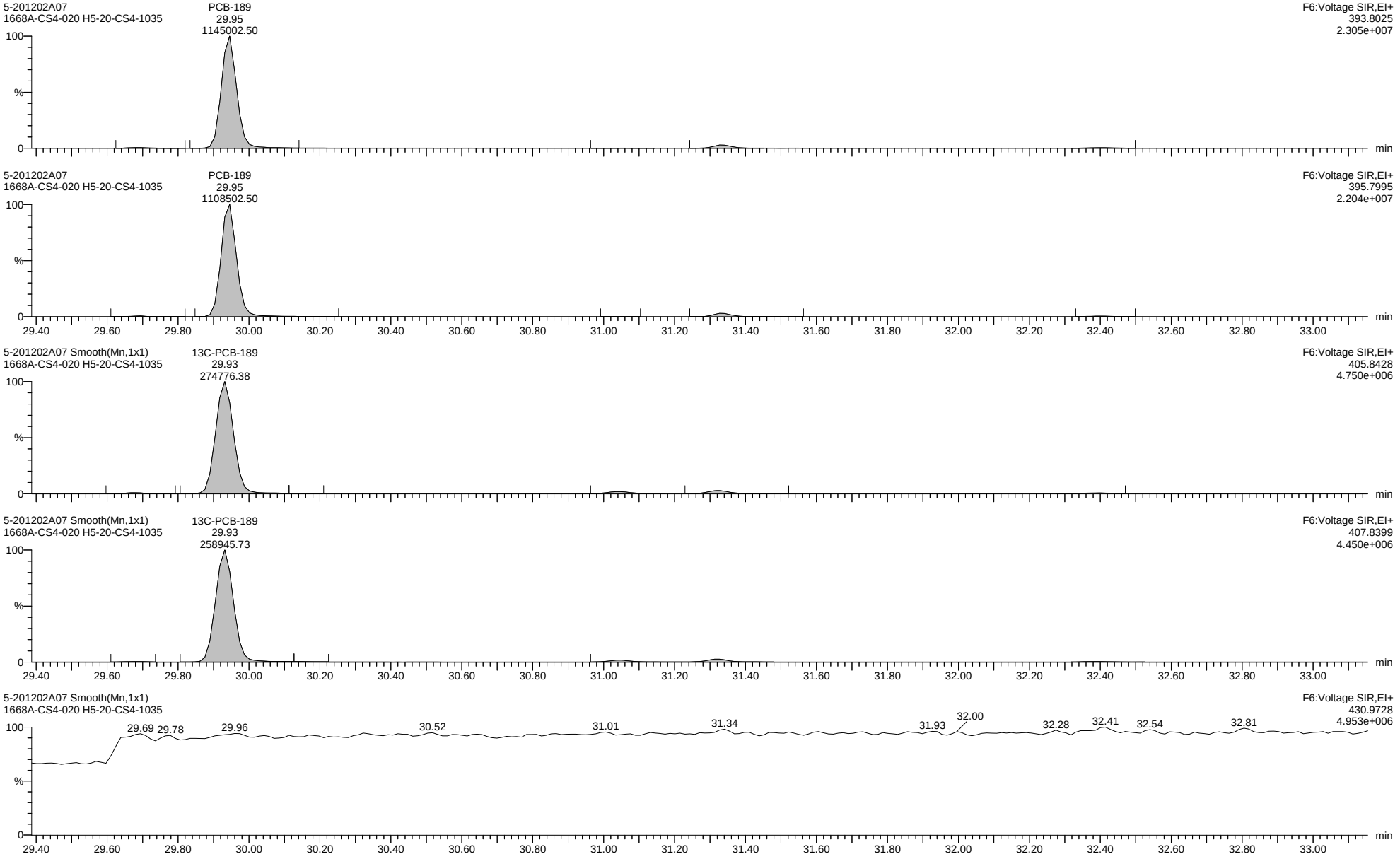

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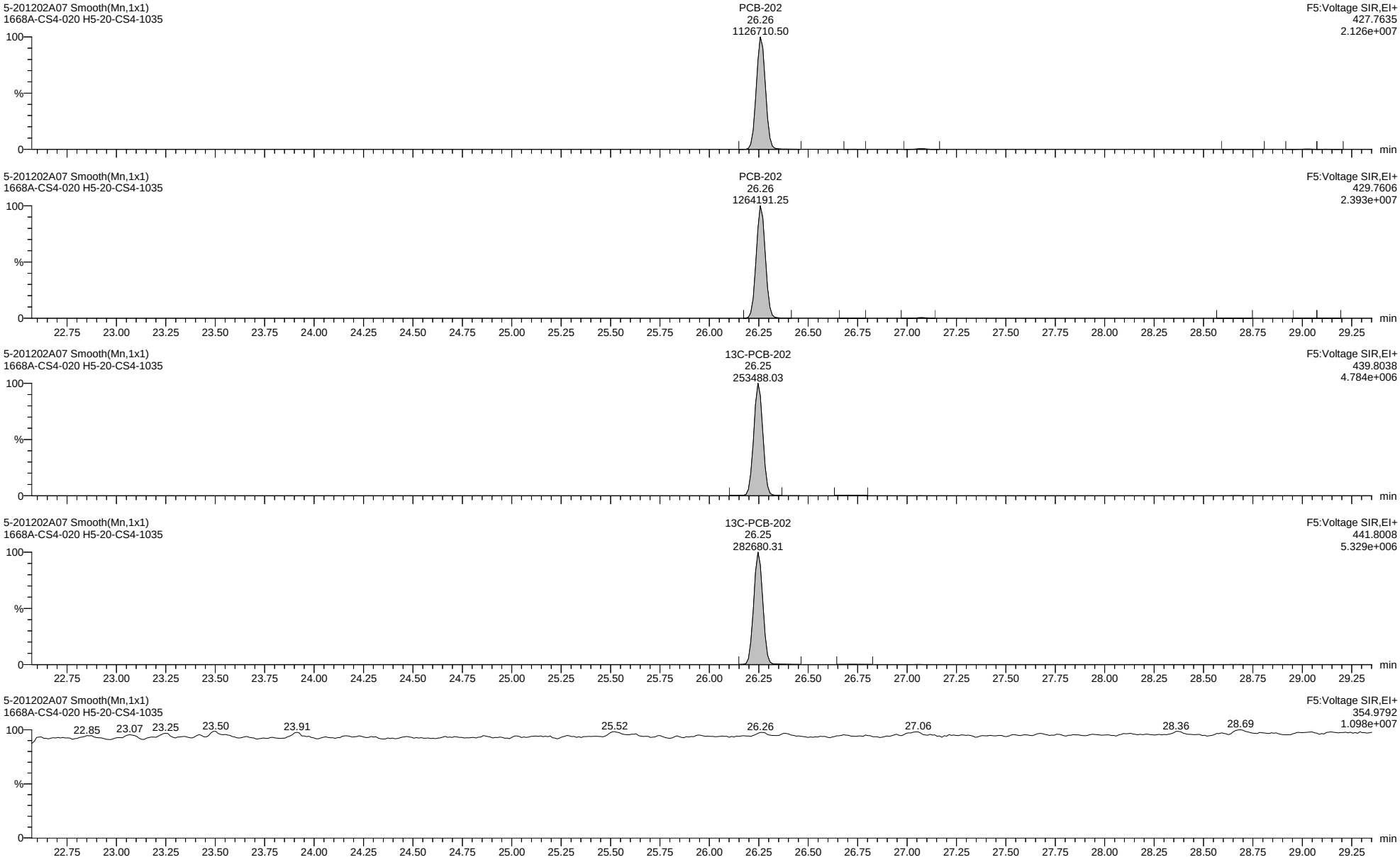

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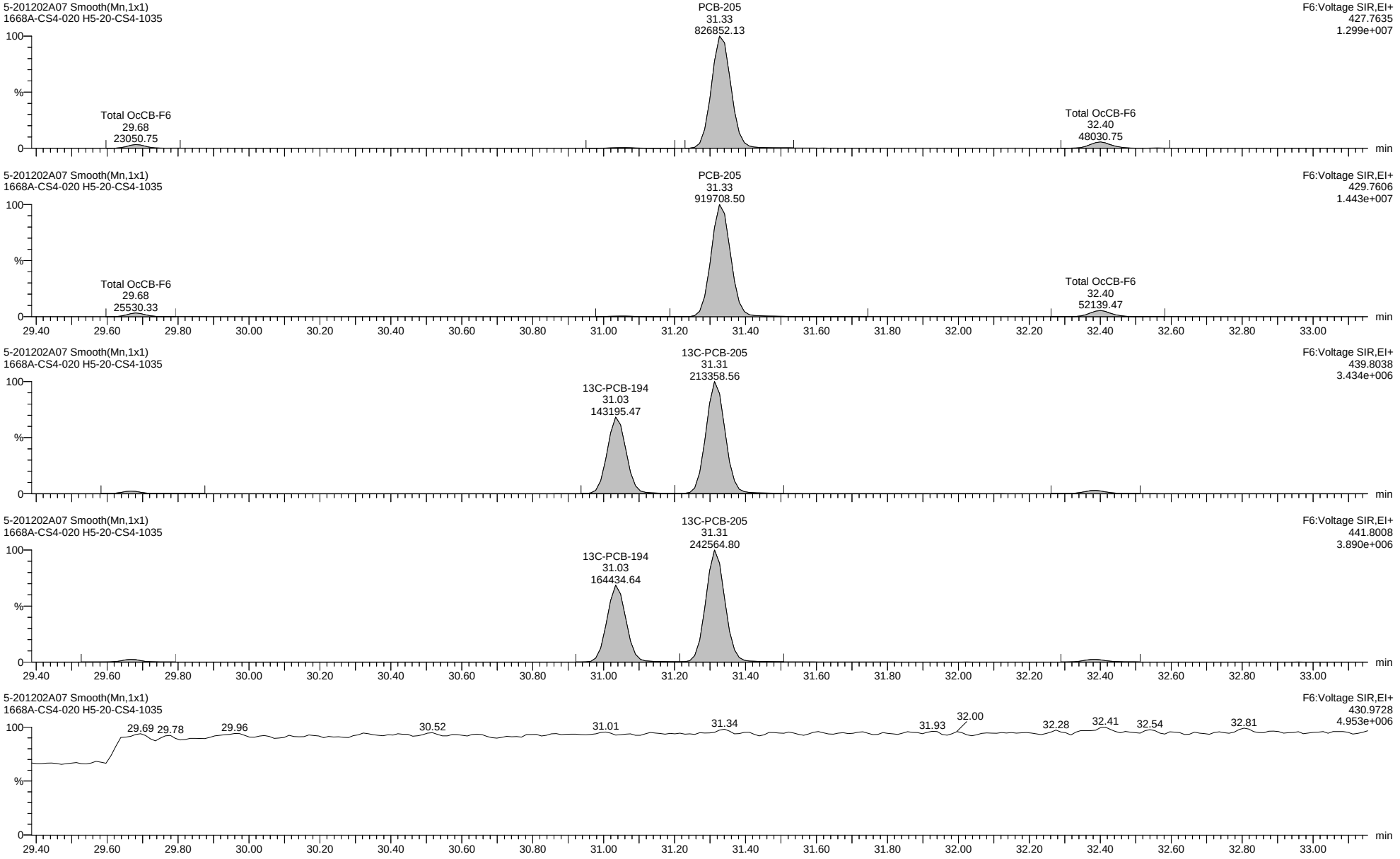

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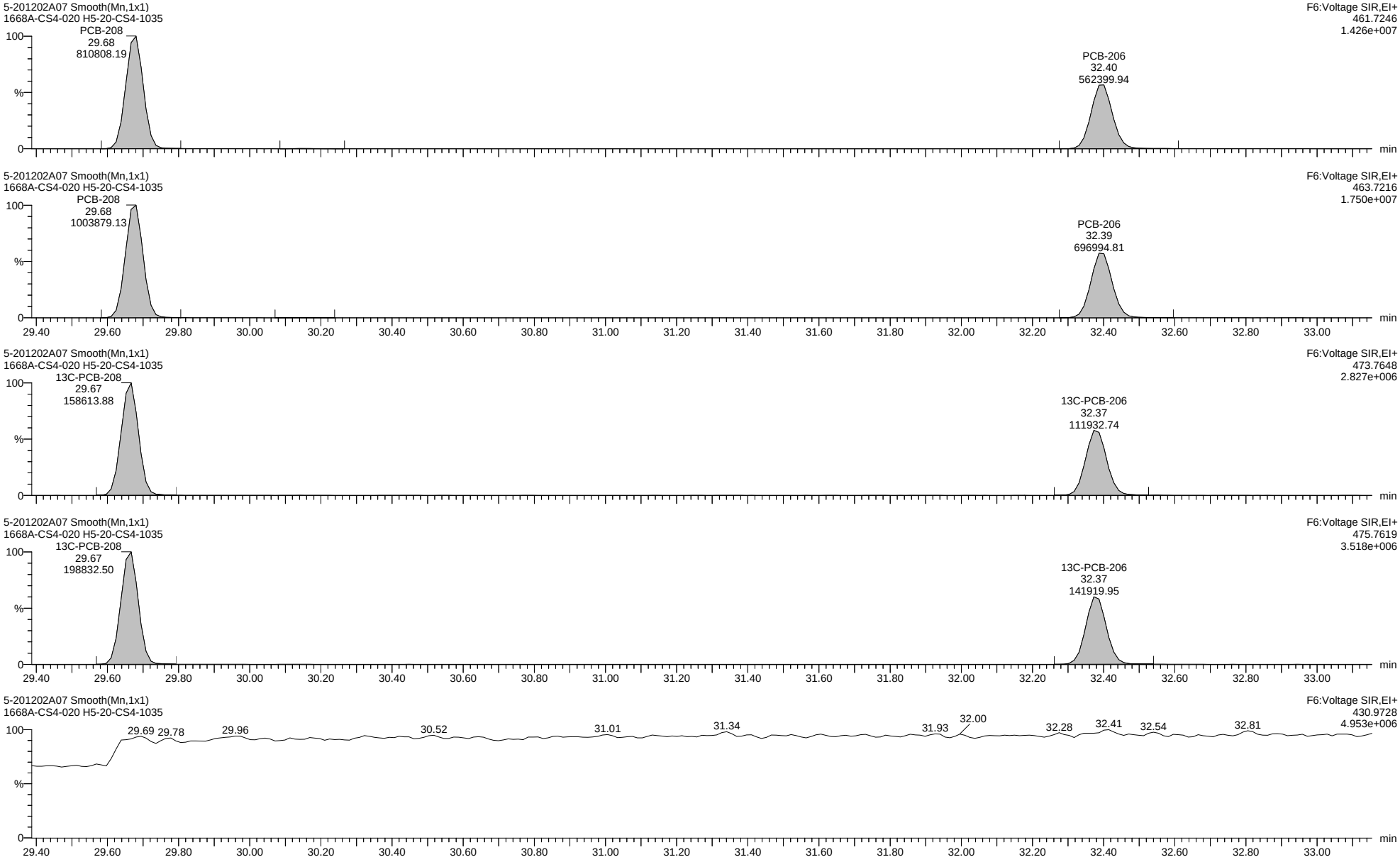

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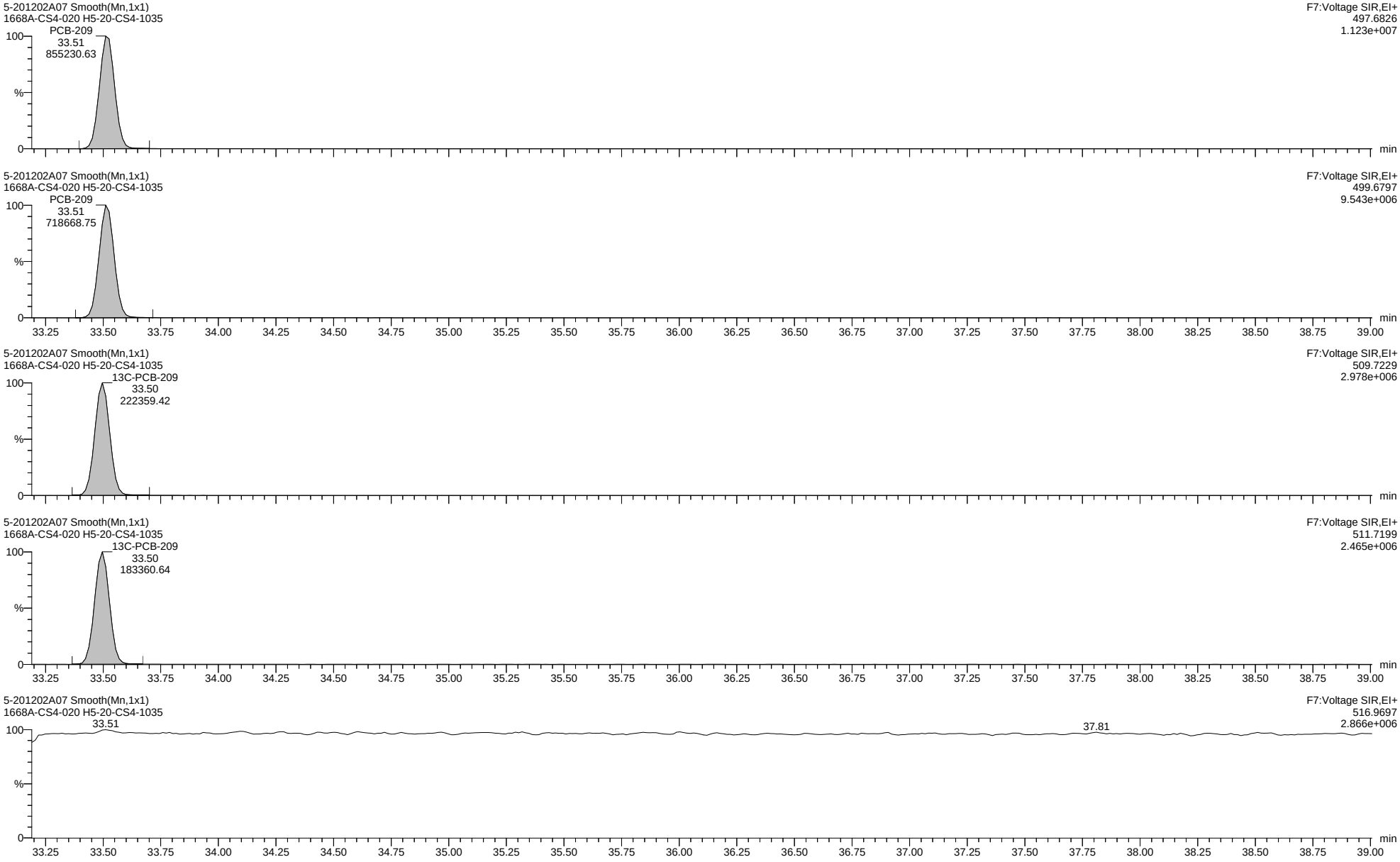

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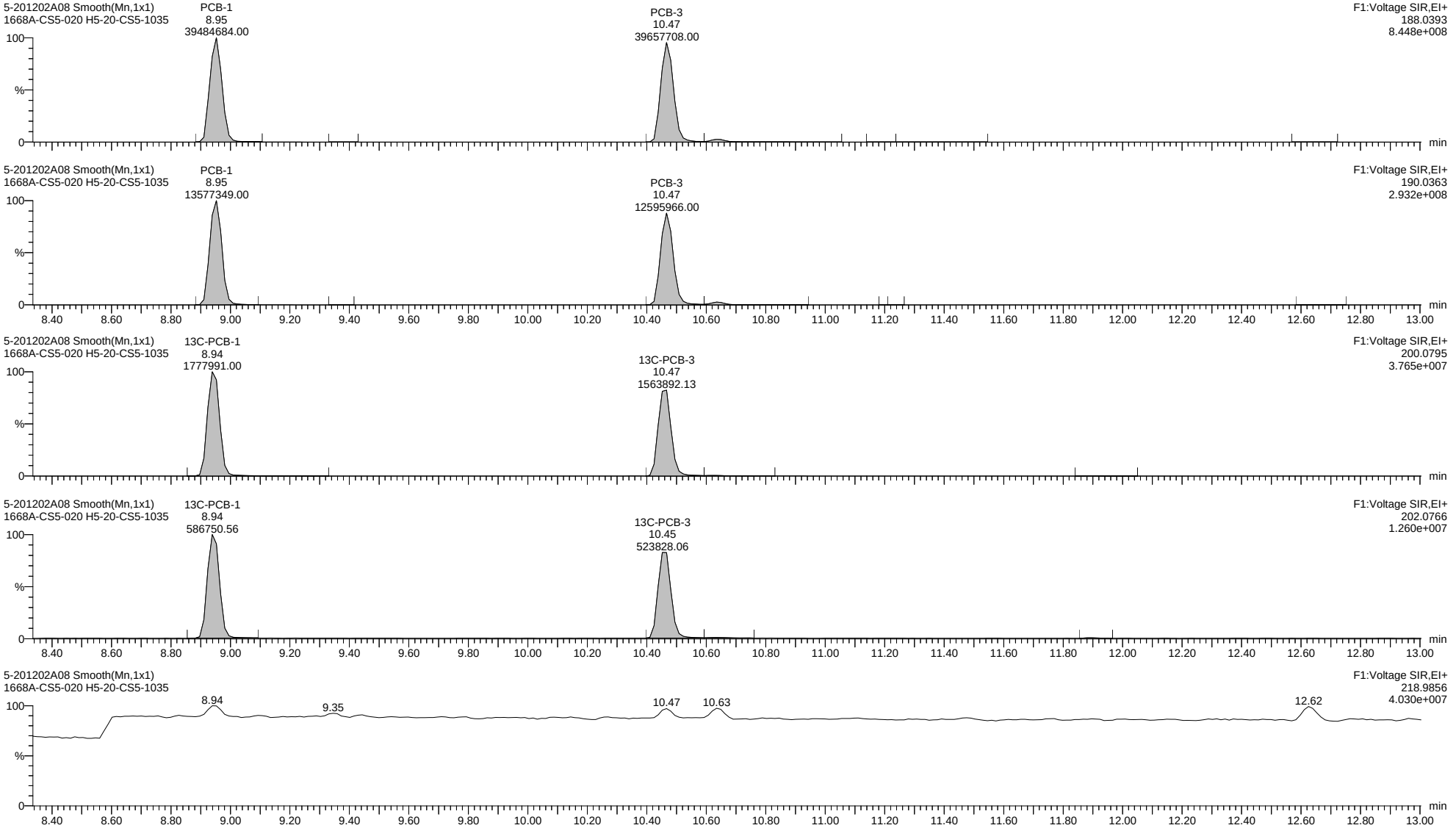

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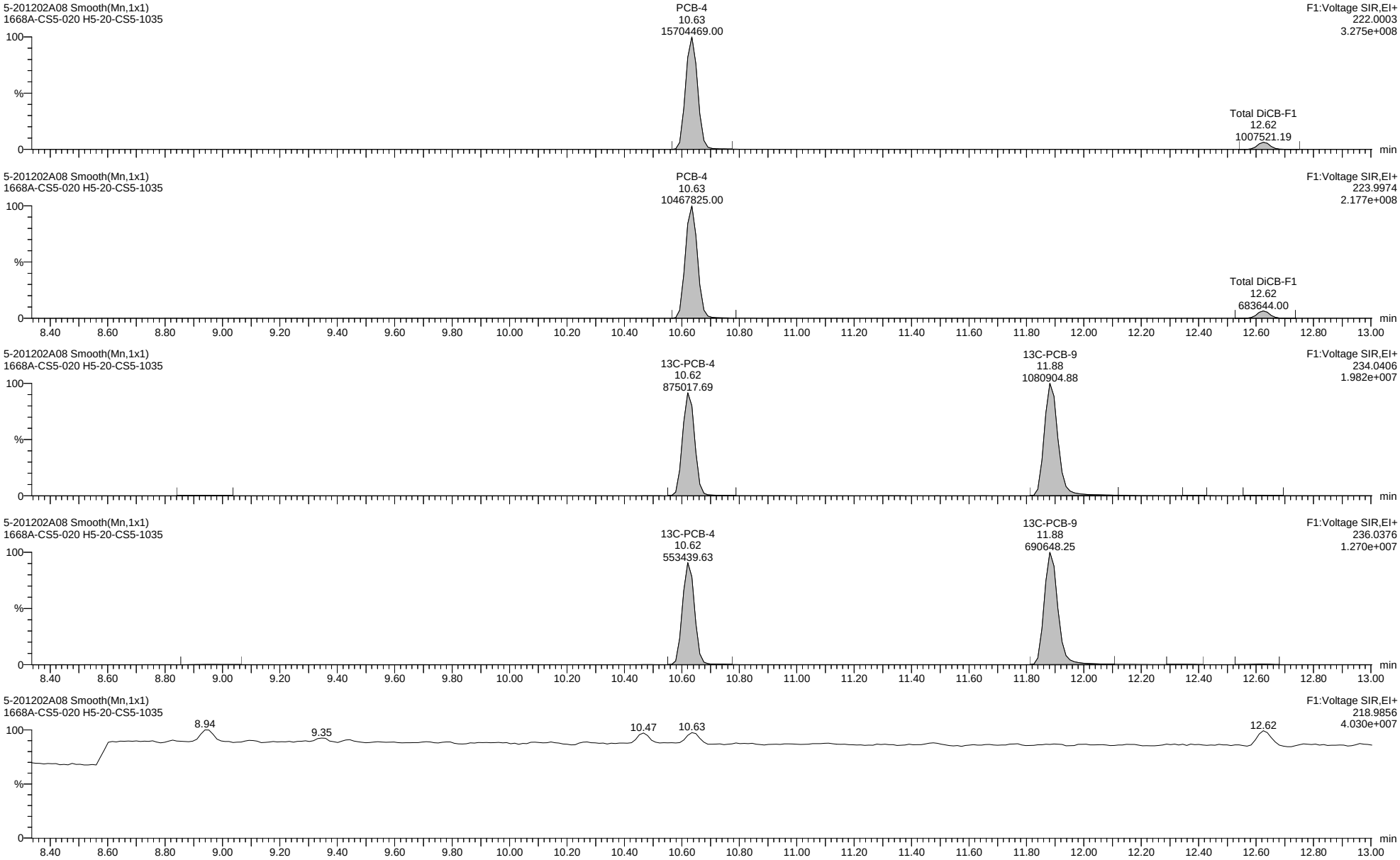

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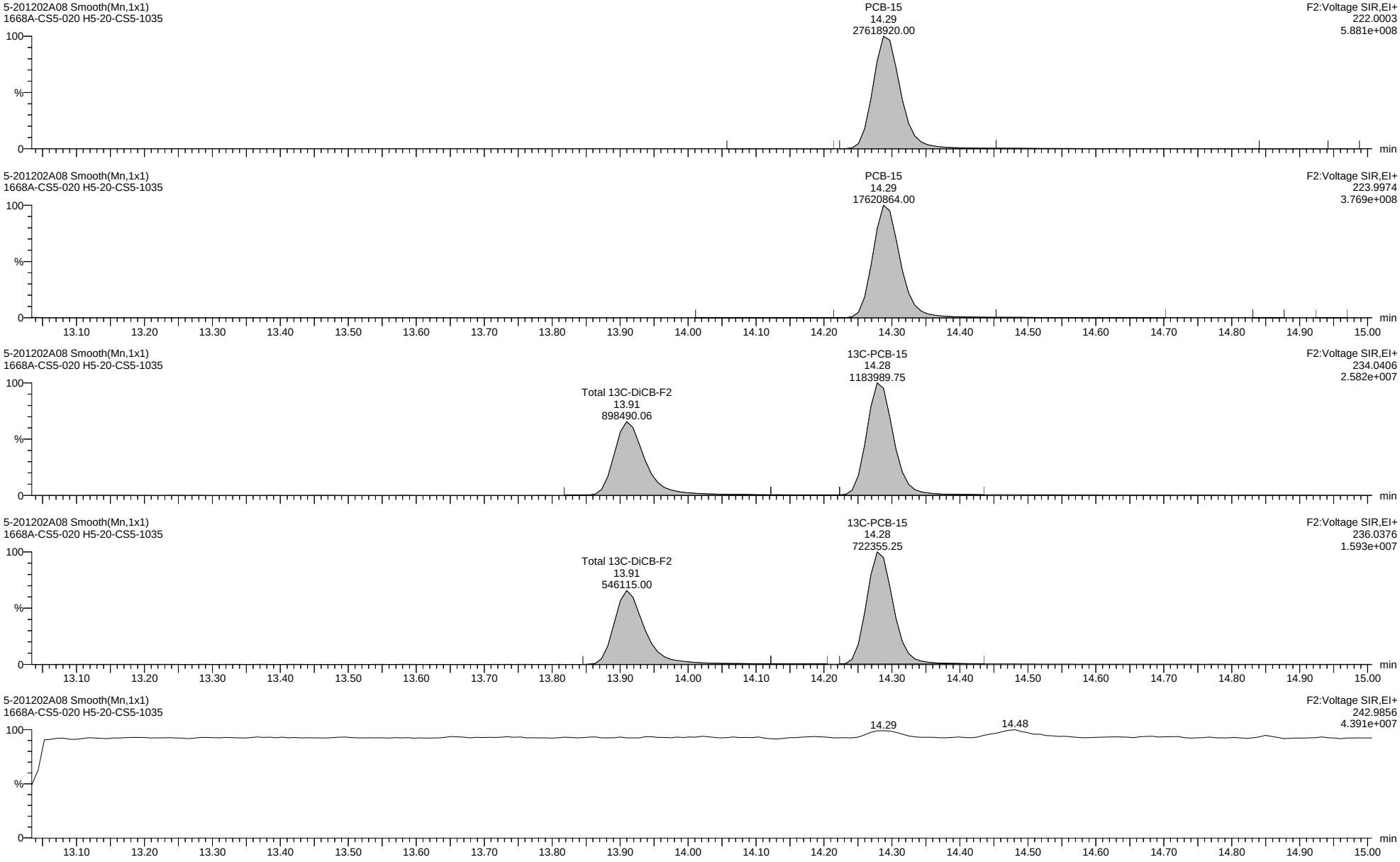

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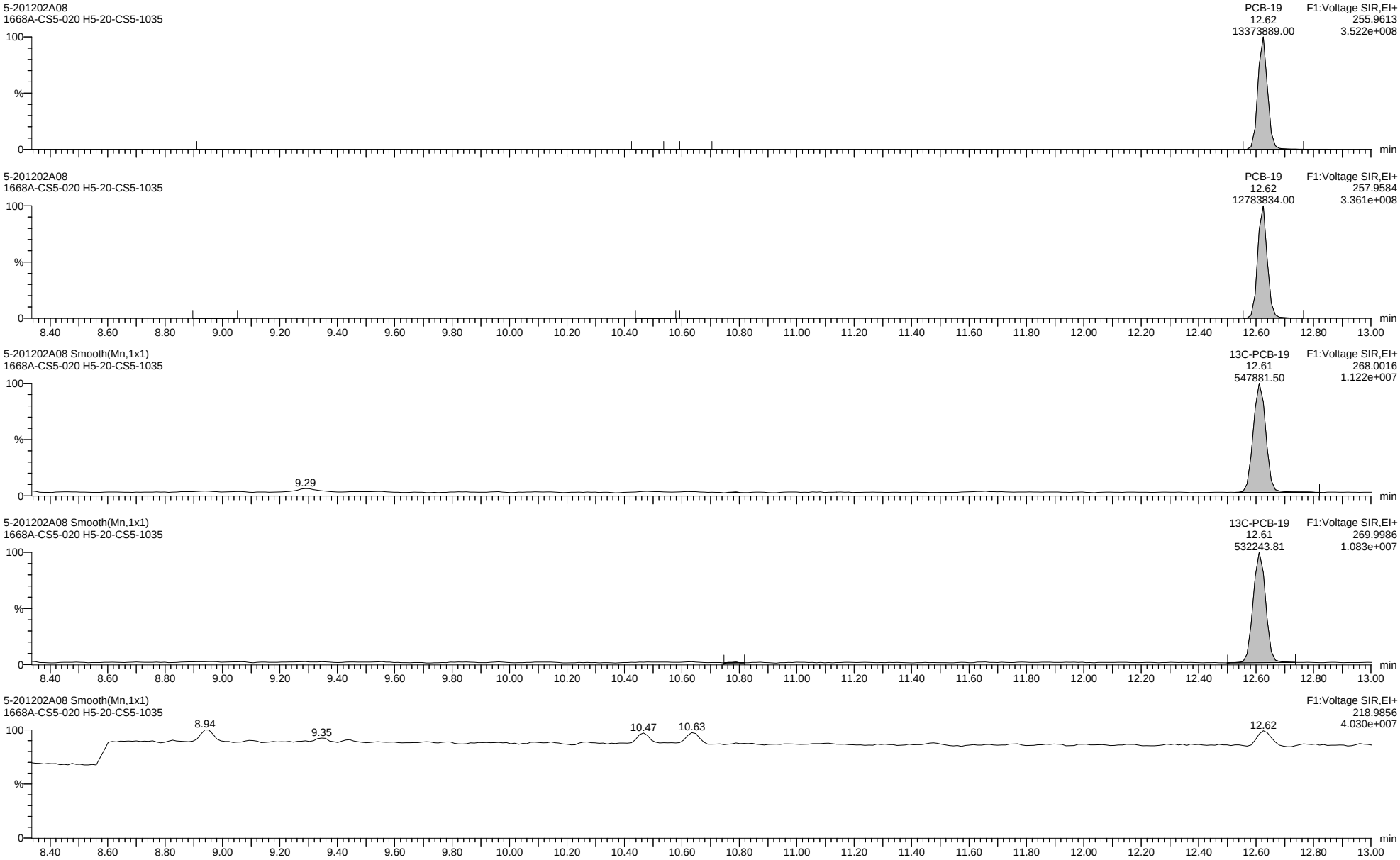

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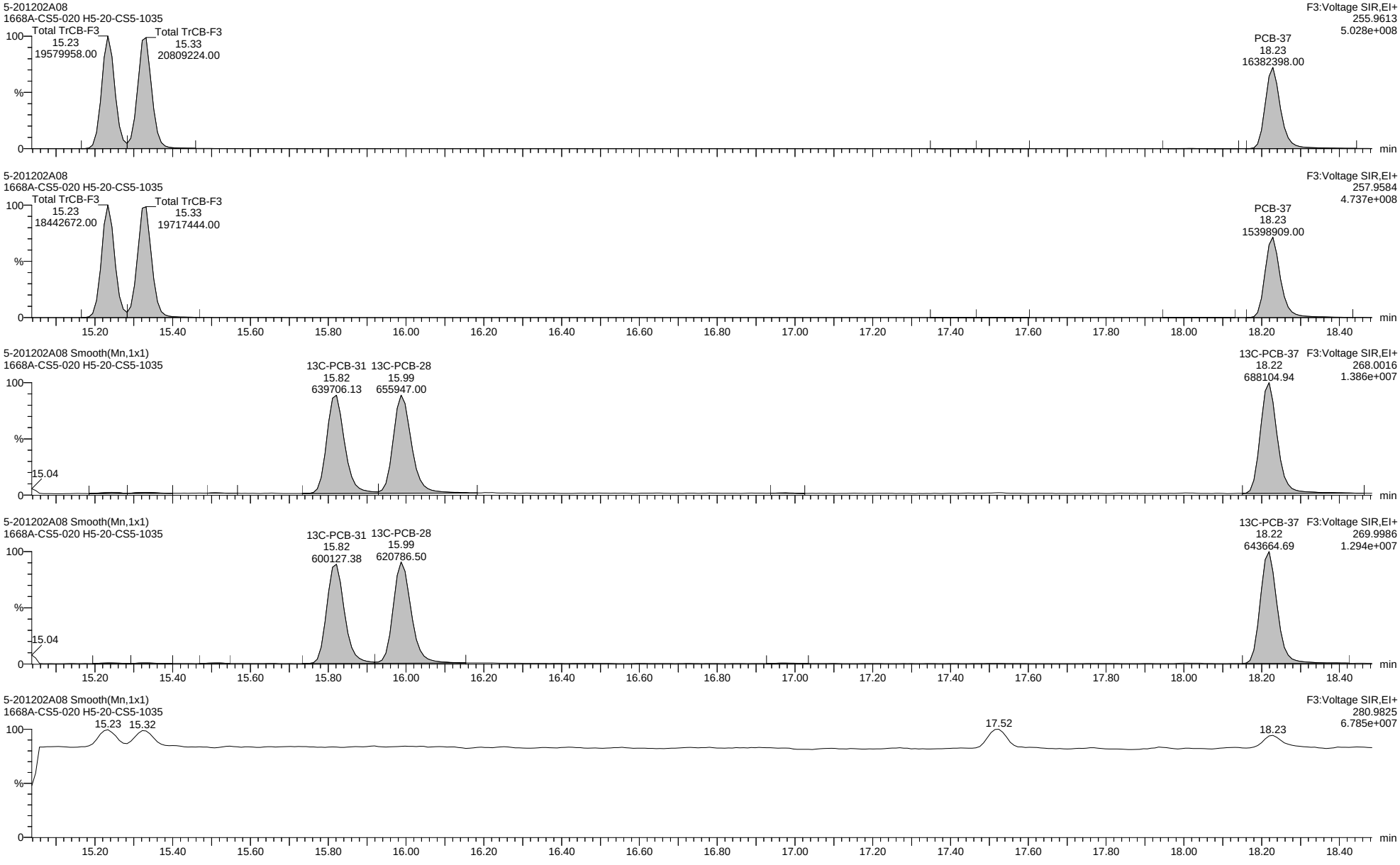

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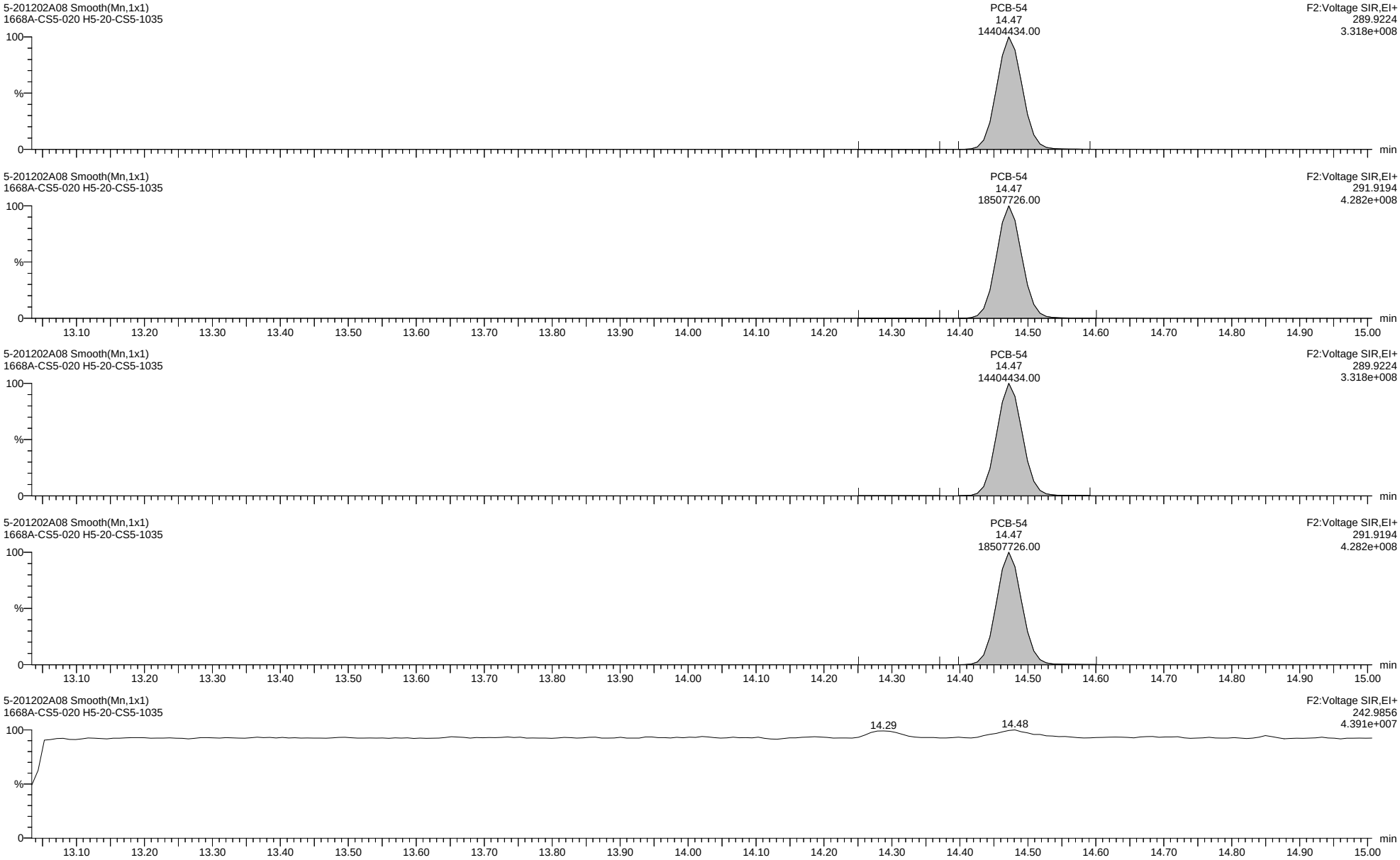

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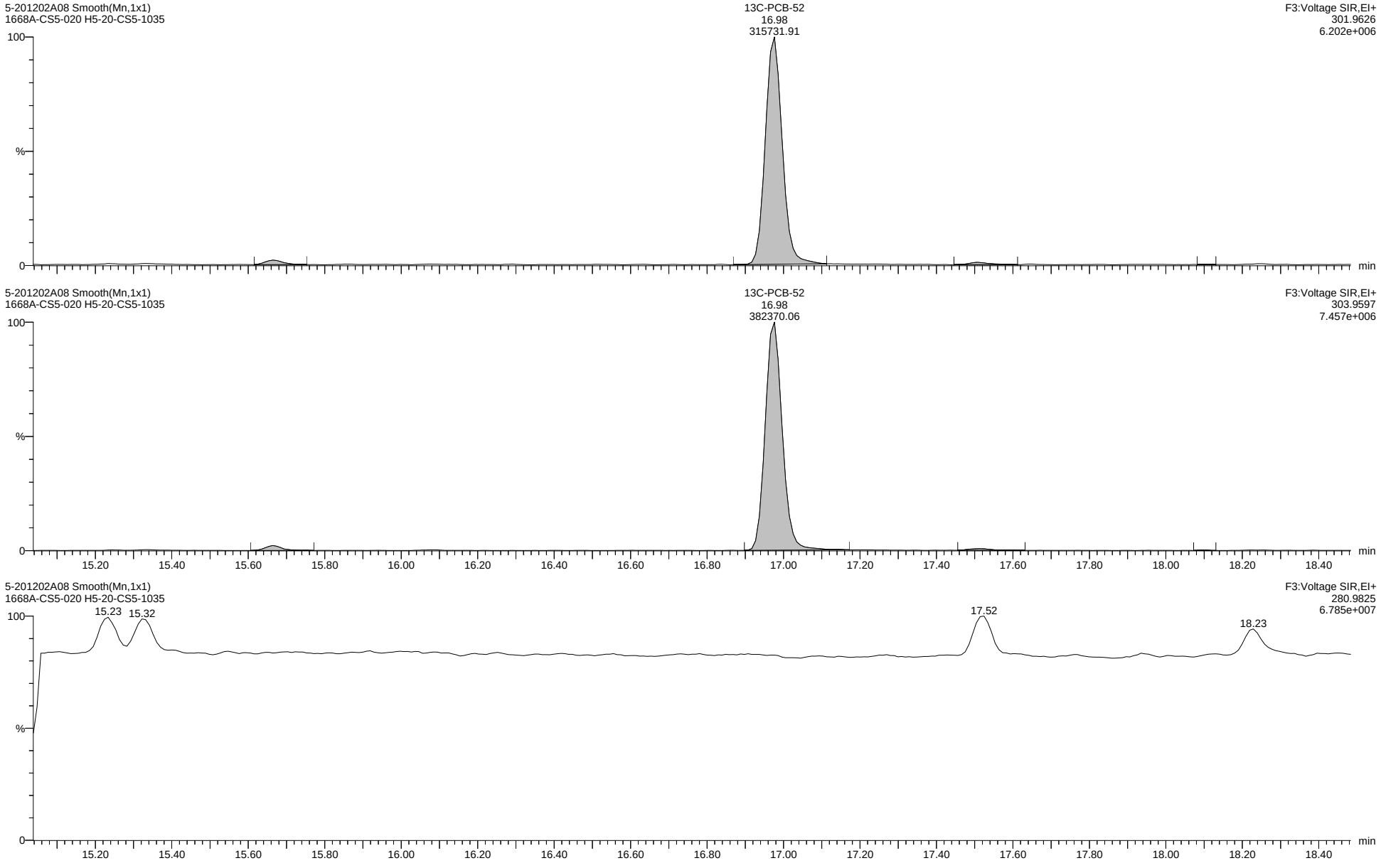

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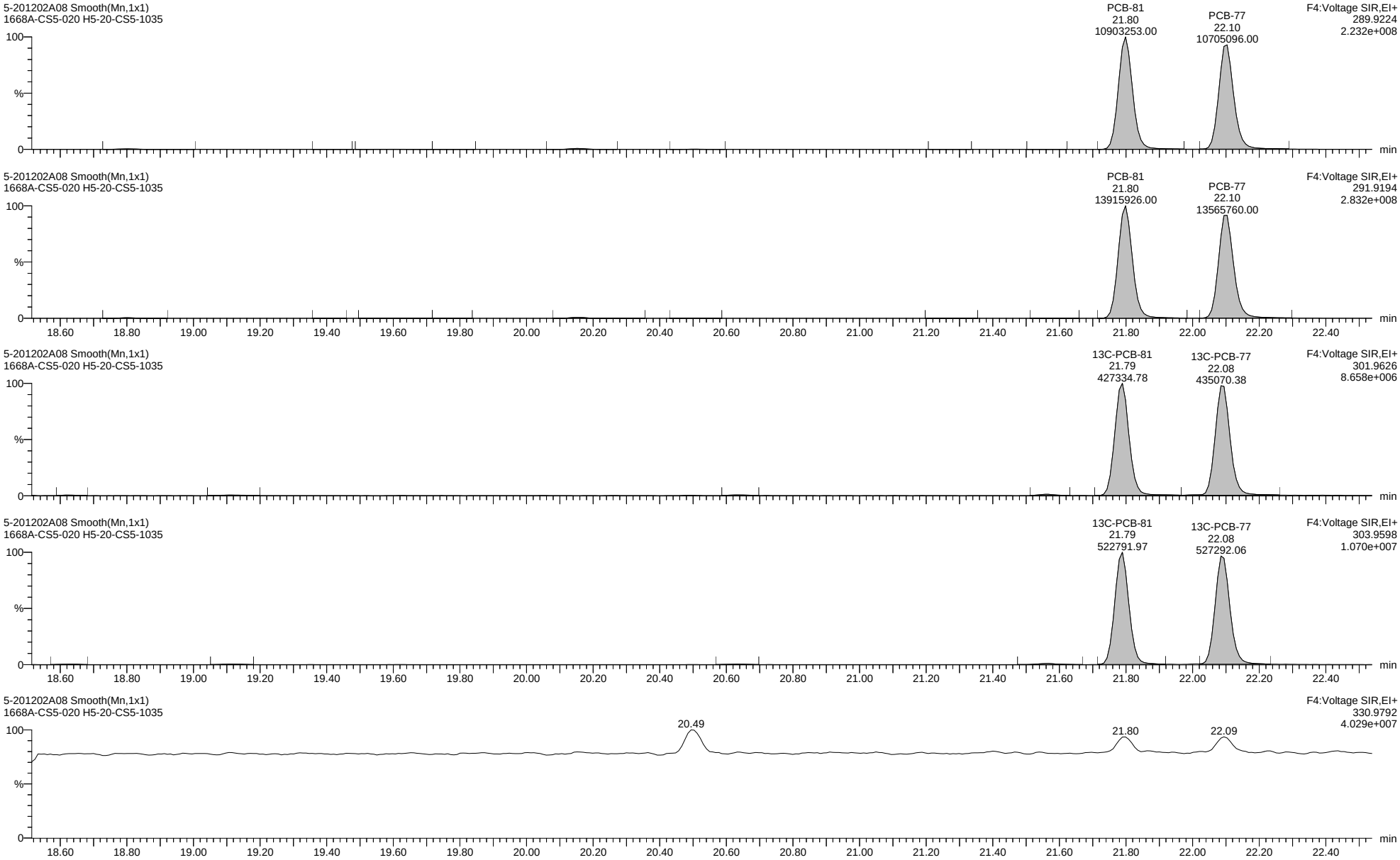

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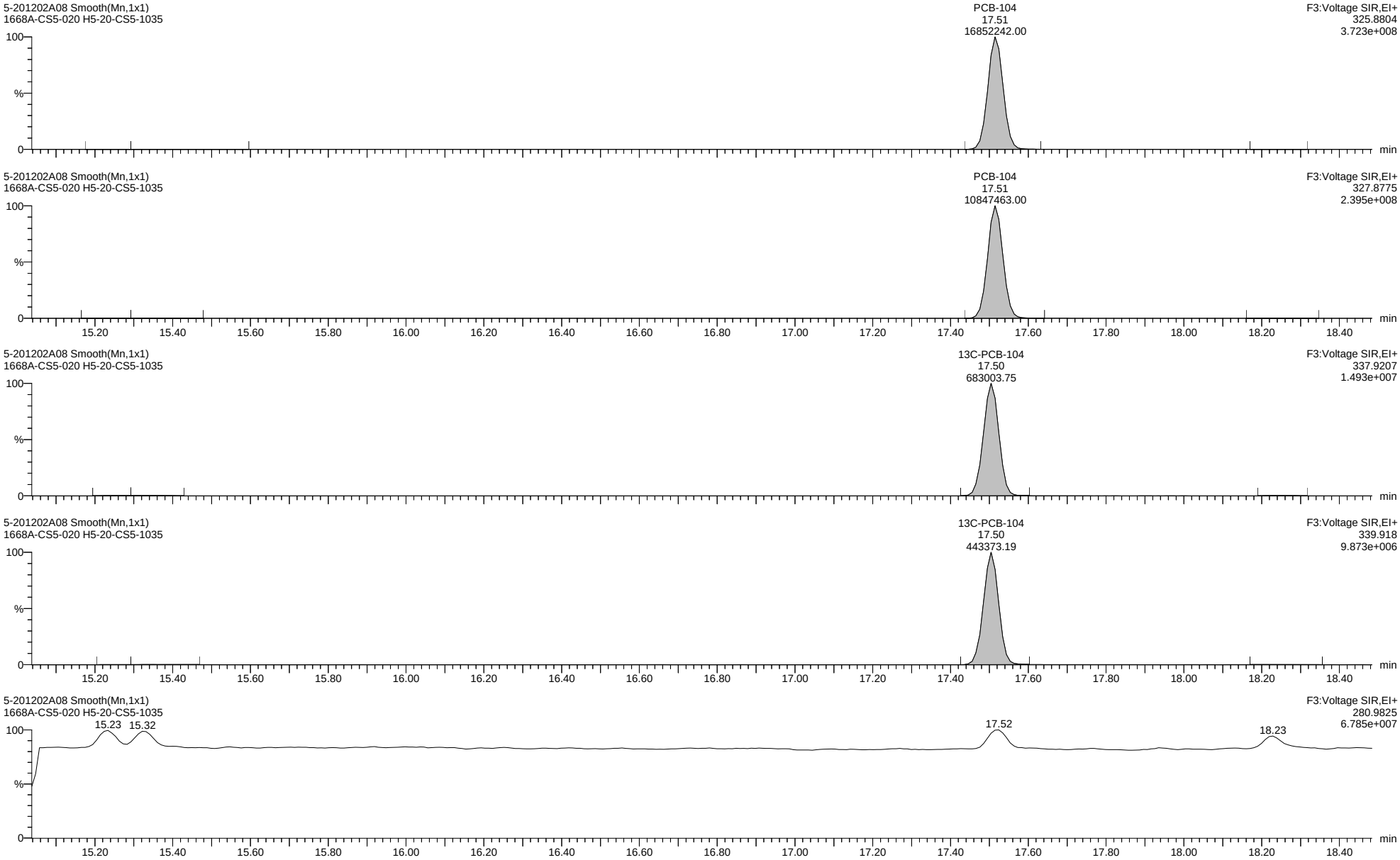
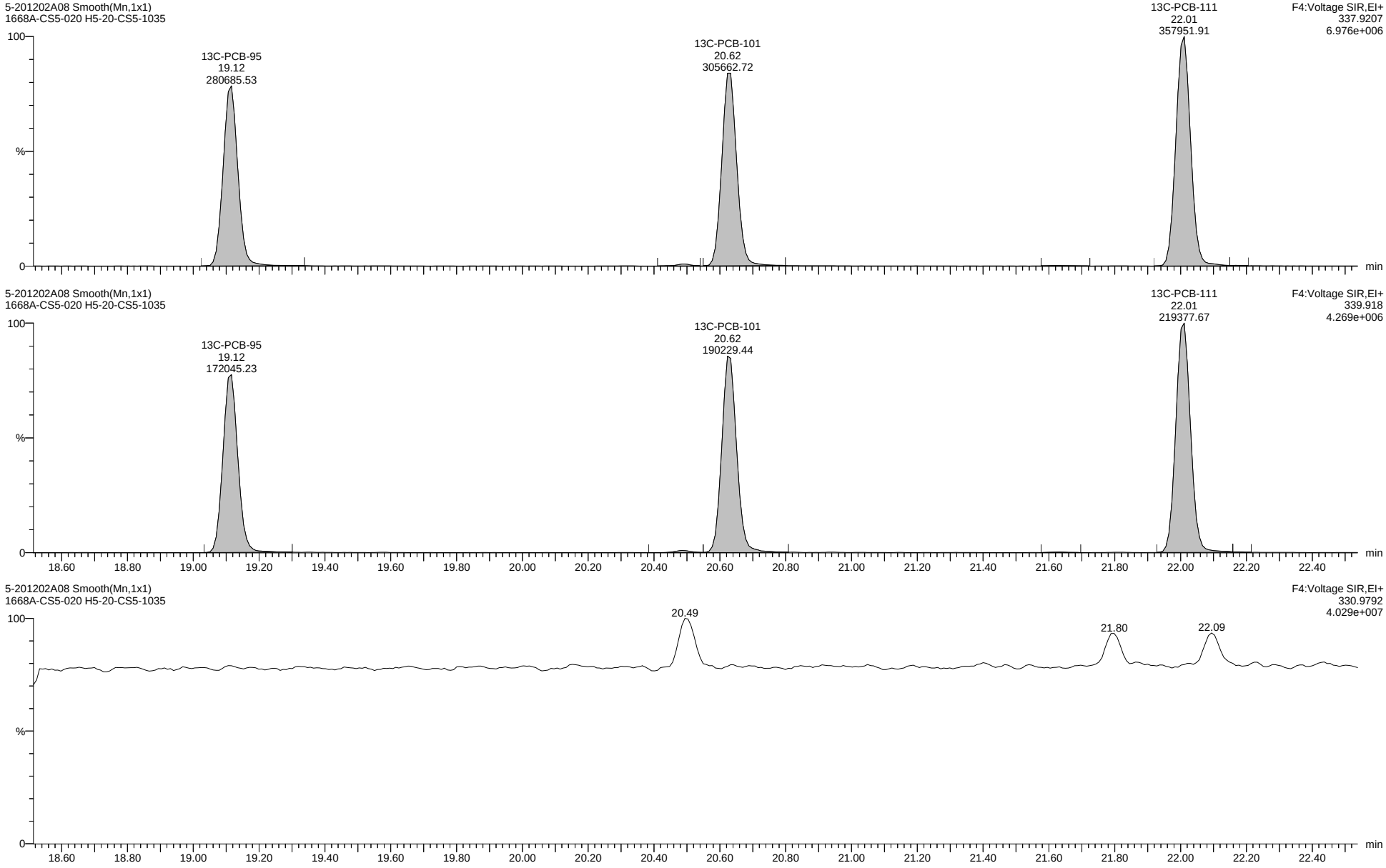
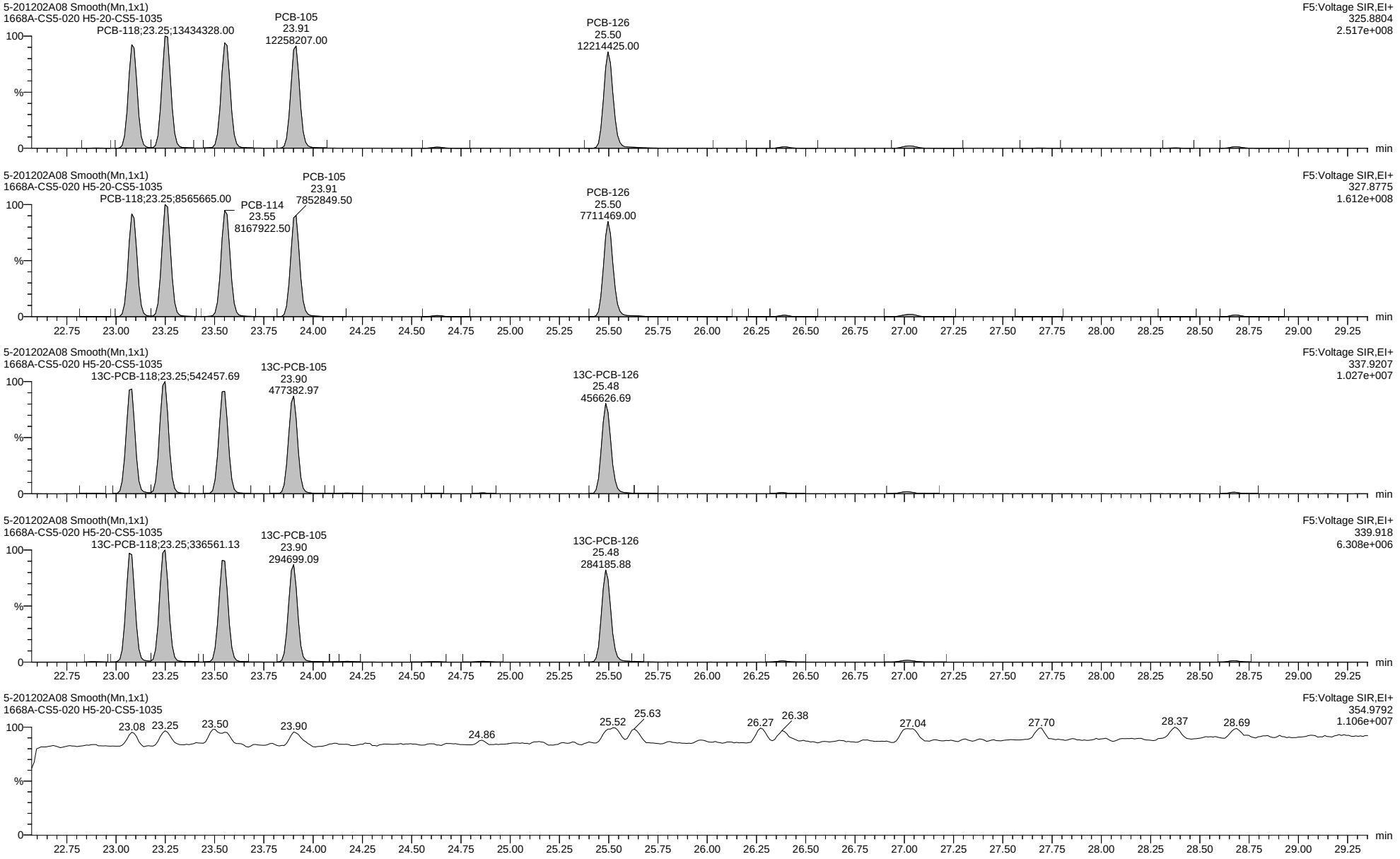


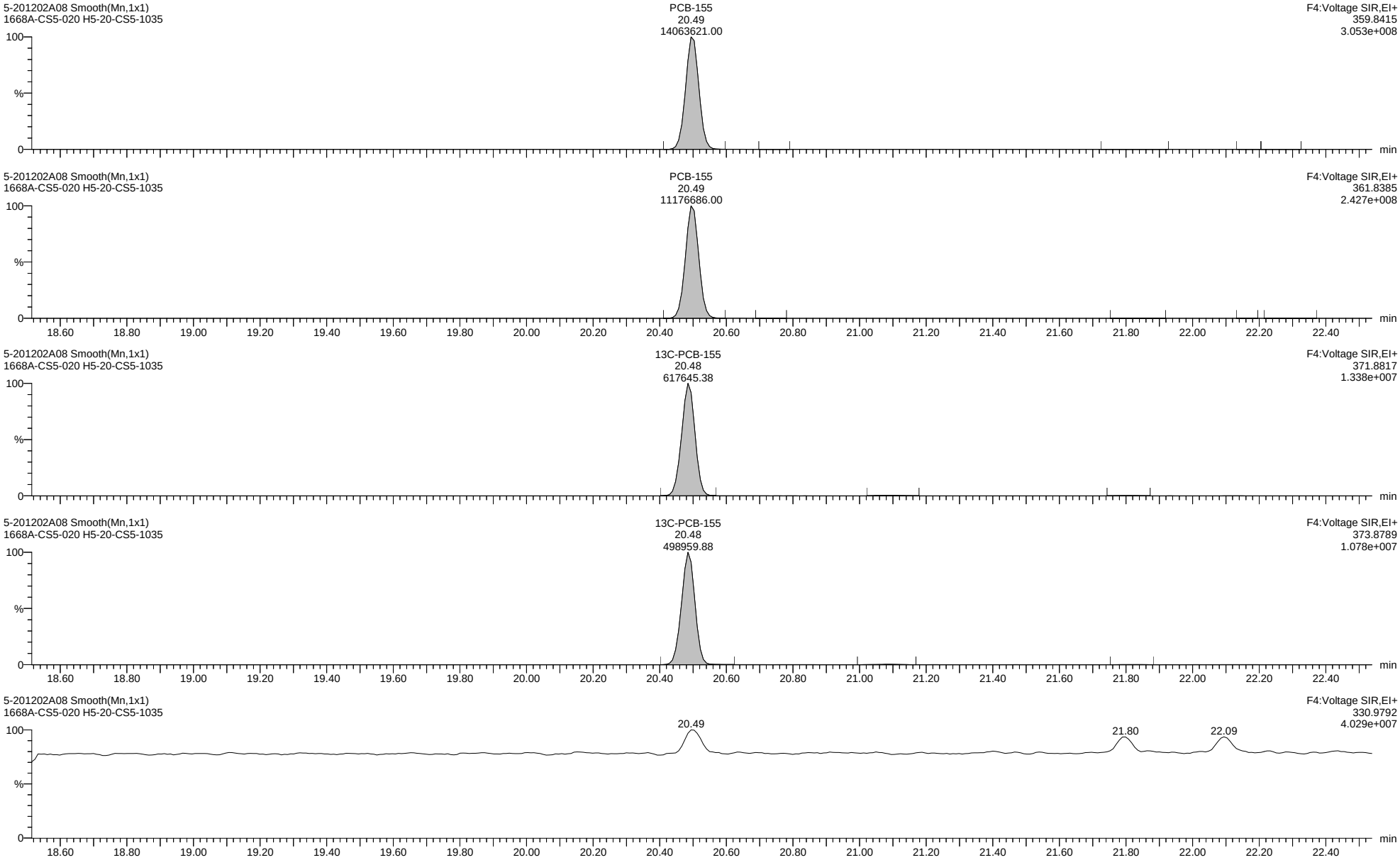
Name: 5-201202A08, Date: 02-Dec-2020, Time: 13:21:16, ID: H5-20-CS5-1035, Description: 1668A-CS5-020, Vial: Tray1:8



Name: 5-201202A08, Date: 02-Dec-2020, Time: 13:21:16, ID: H5-20-CS5-1035, Description: 1668A-CS5-020, Vial: Tray1:8



Name: 5-201202A08, Date: 02-Dec-2020, Time: 13:21:16, ID: H5-20-CS5-1035, Description: 1668A-CS5-020, Vial: Tray1:8



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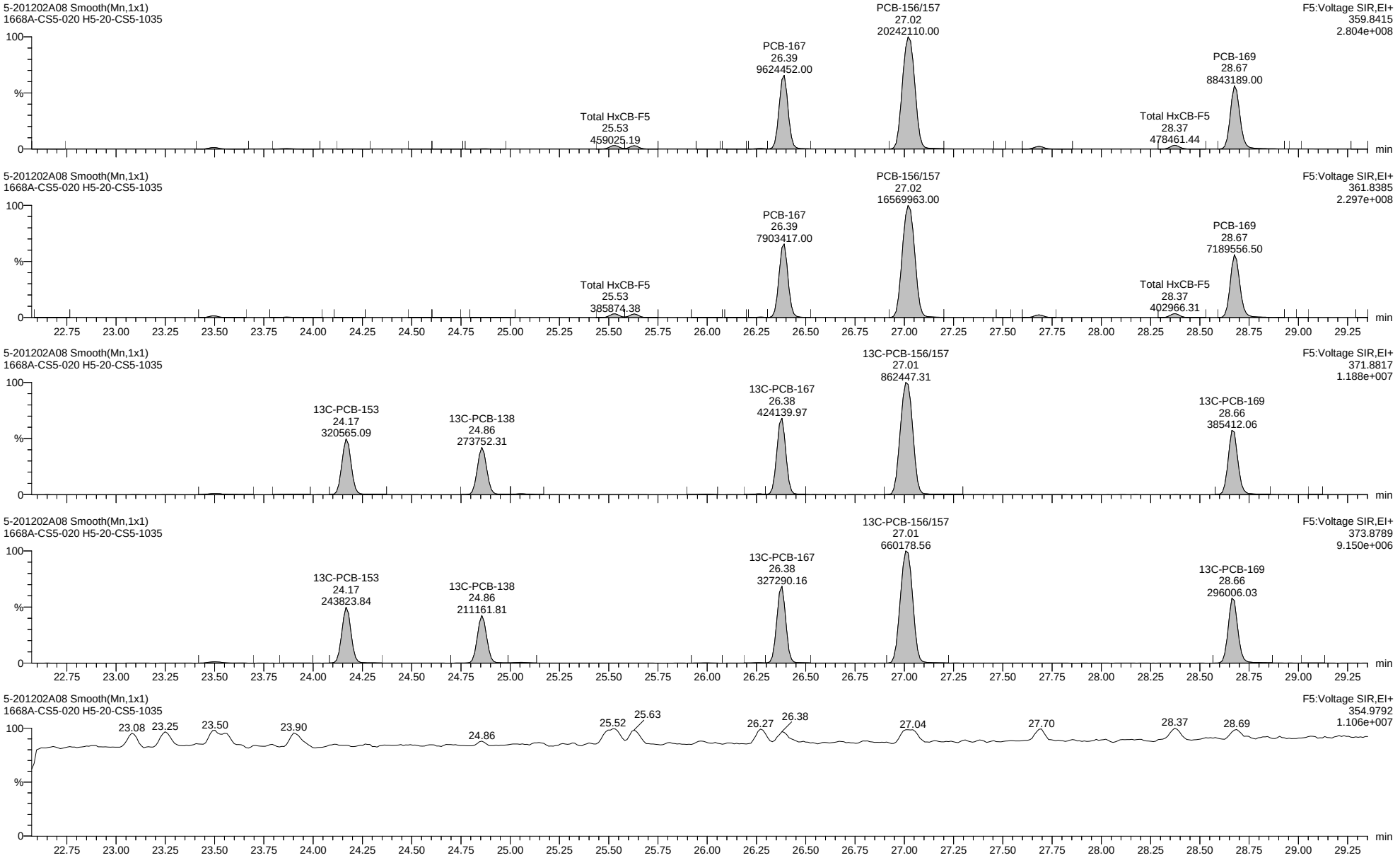

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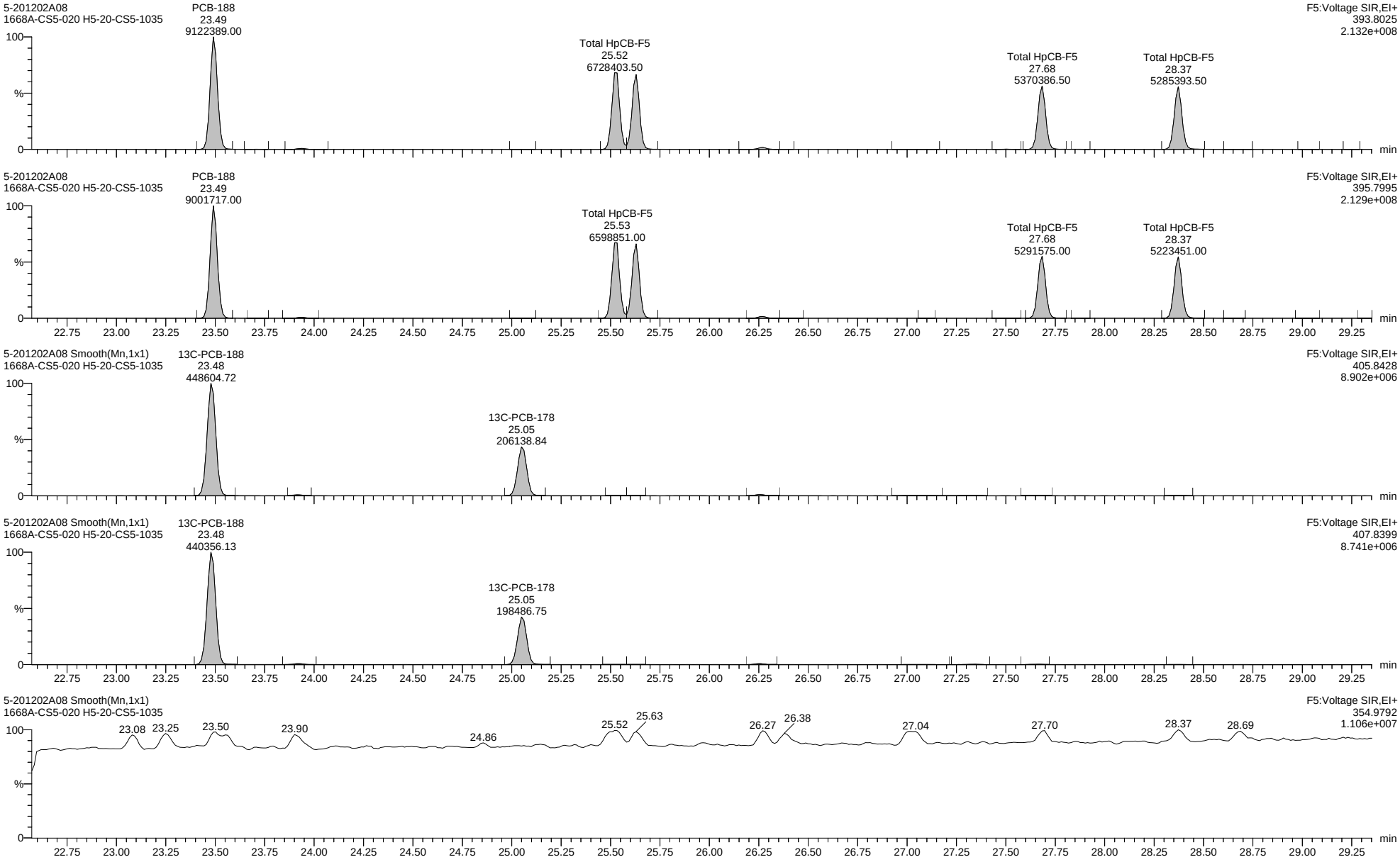
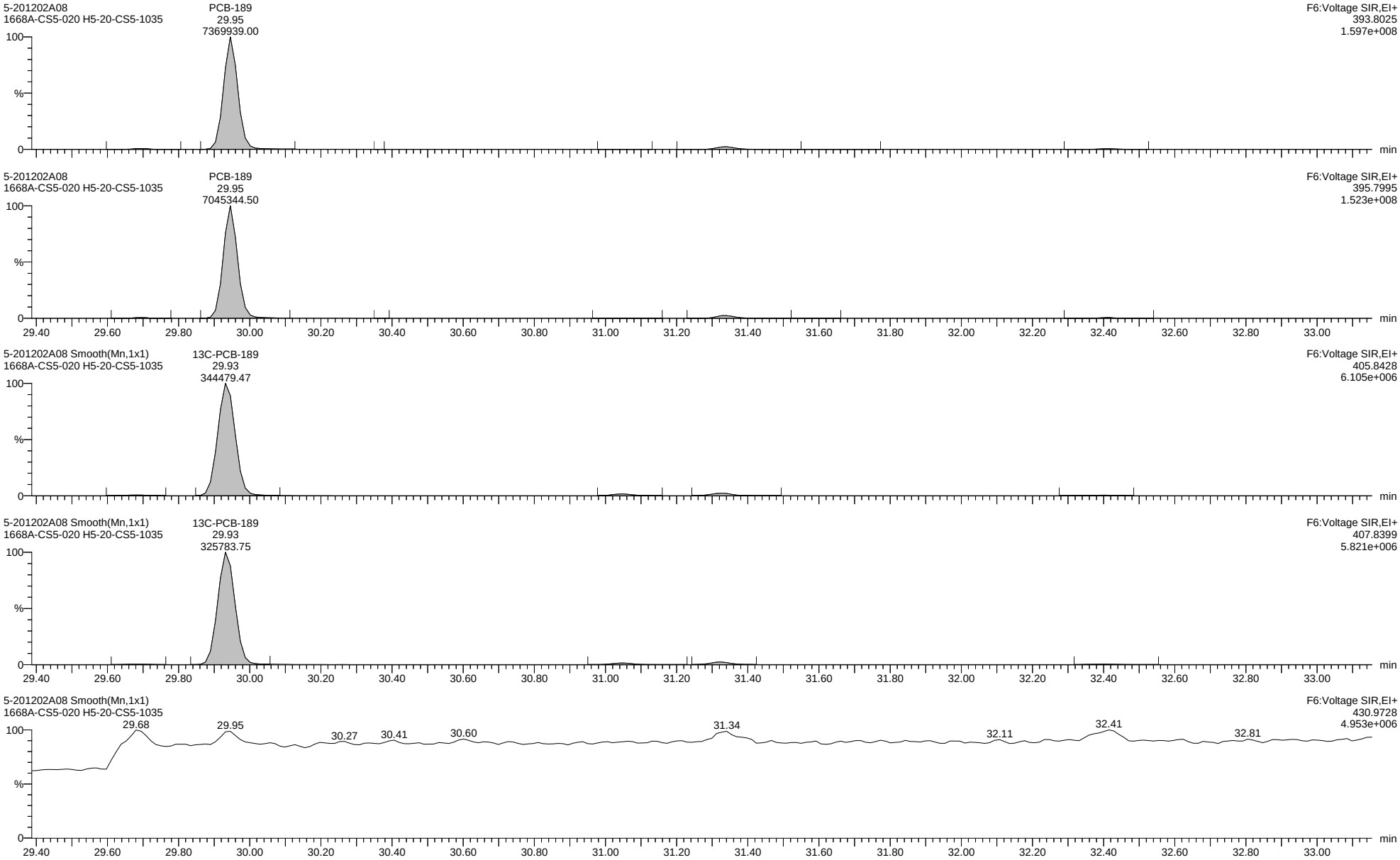


Name: 5-201202A08, Date: 02-Dec-2020, Time: 13:21:16, ID: H5-20-CS5-1035, Description: 1668A-CS5-020, Vial: Tray1:8



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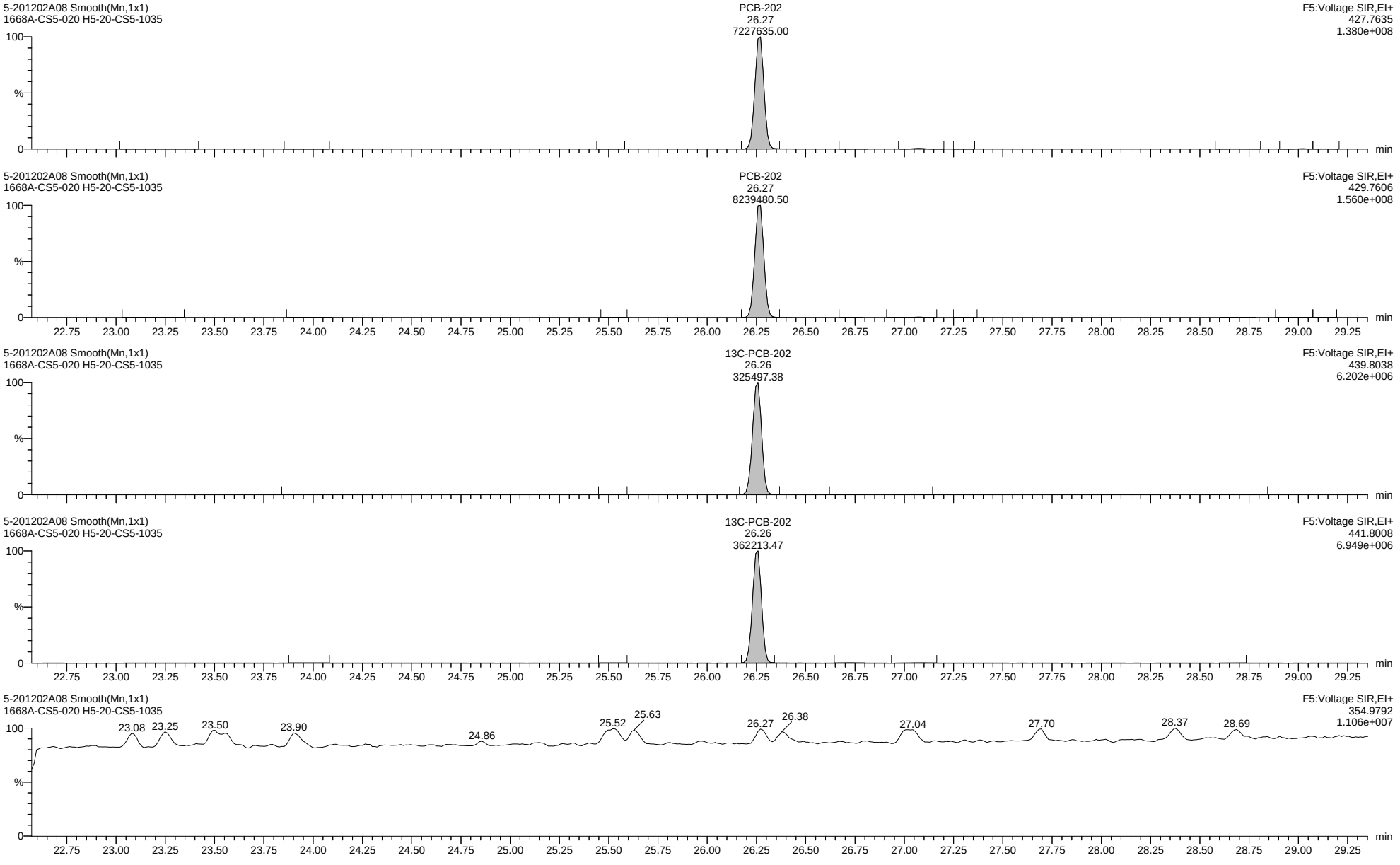
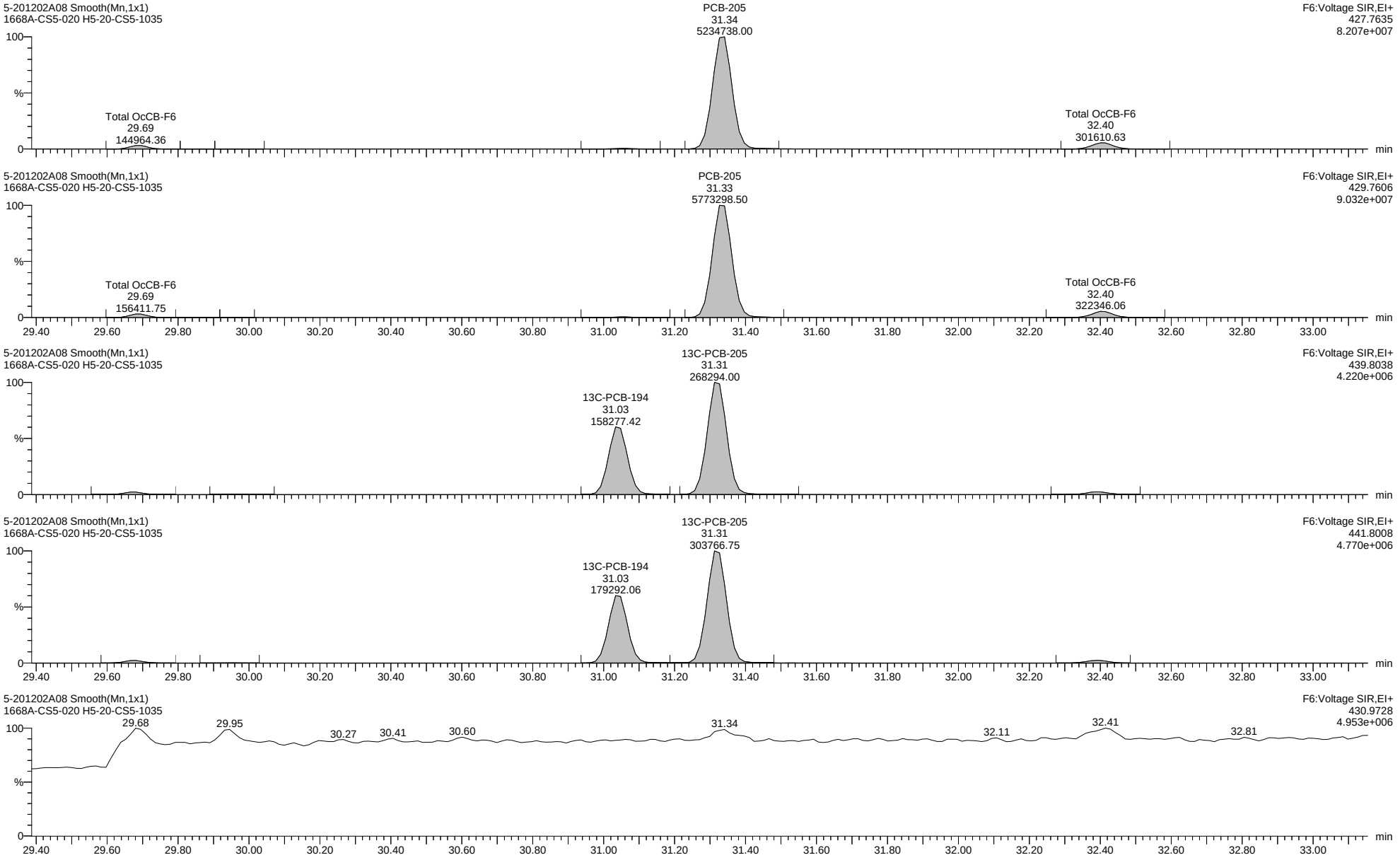
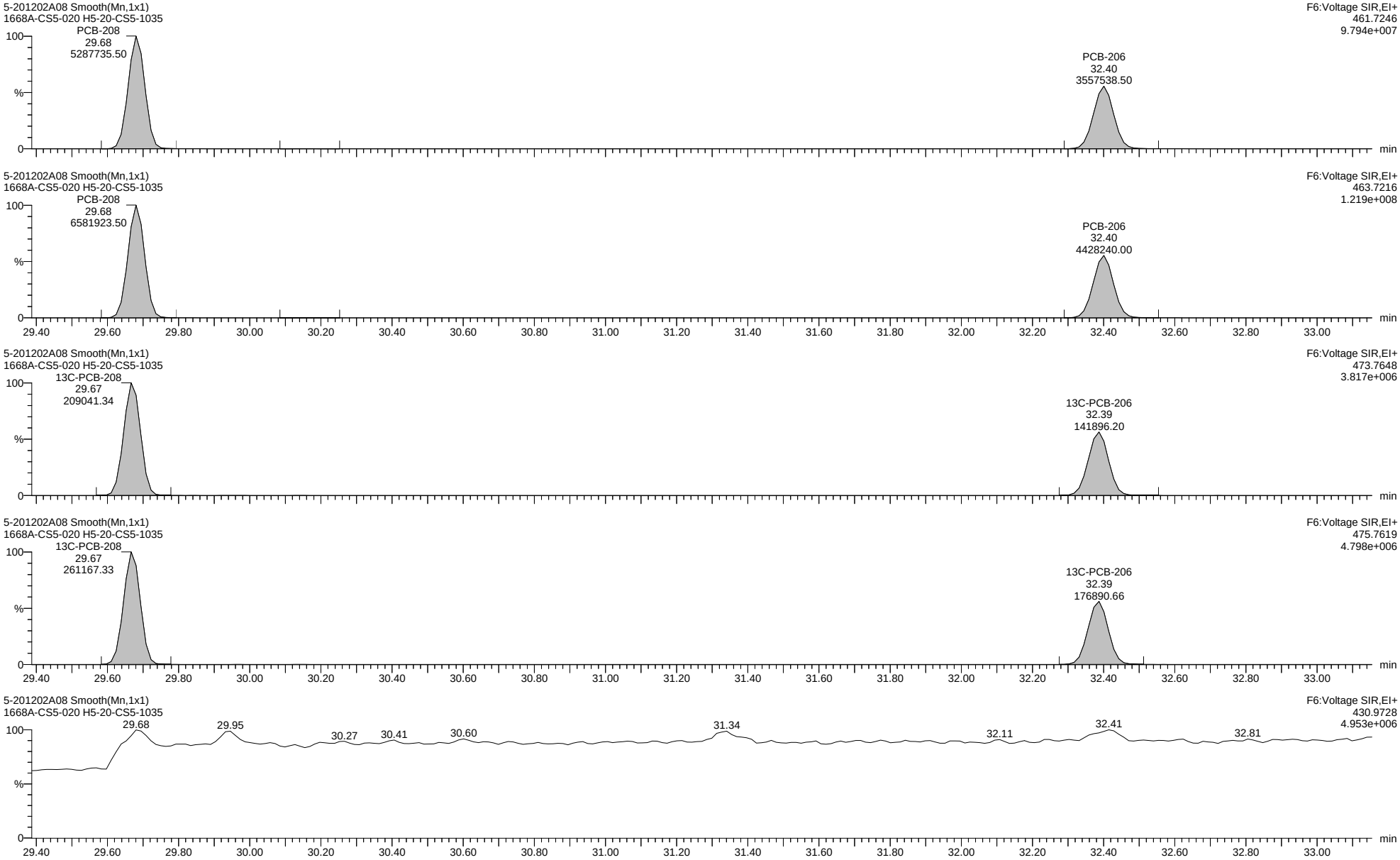


Name: 5-201202A08, Date: 02-Dec-2020, Time: 13:21:16, ID: H5-20-CS5-1035, Description: 1668A-CS5-020, Vial: Tray1:8



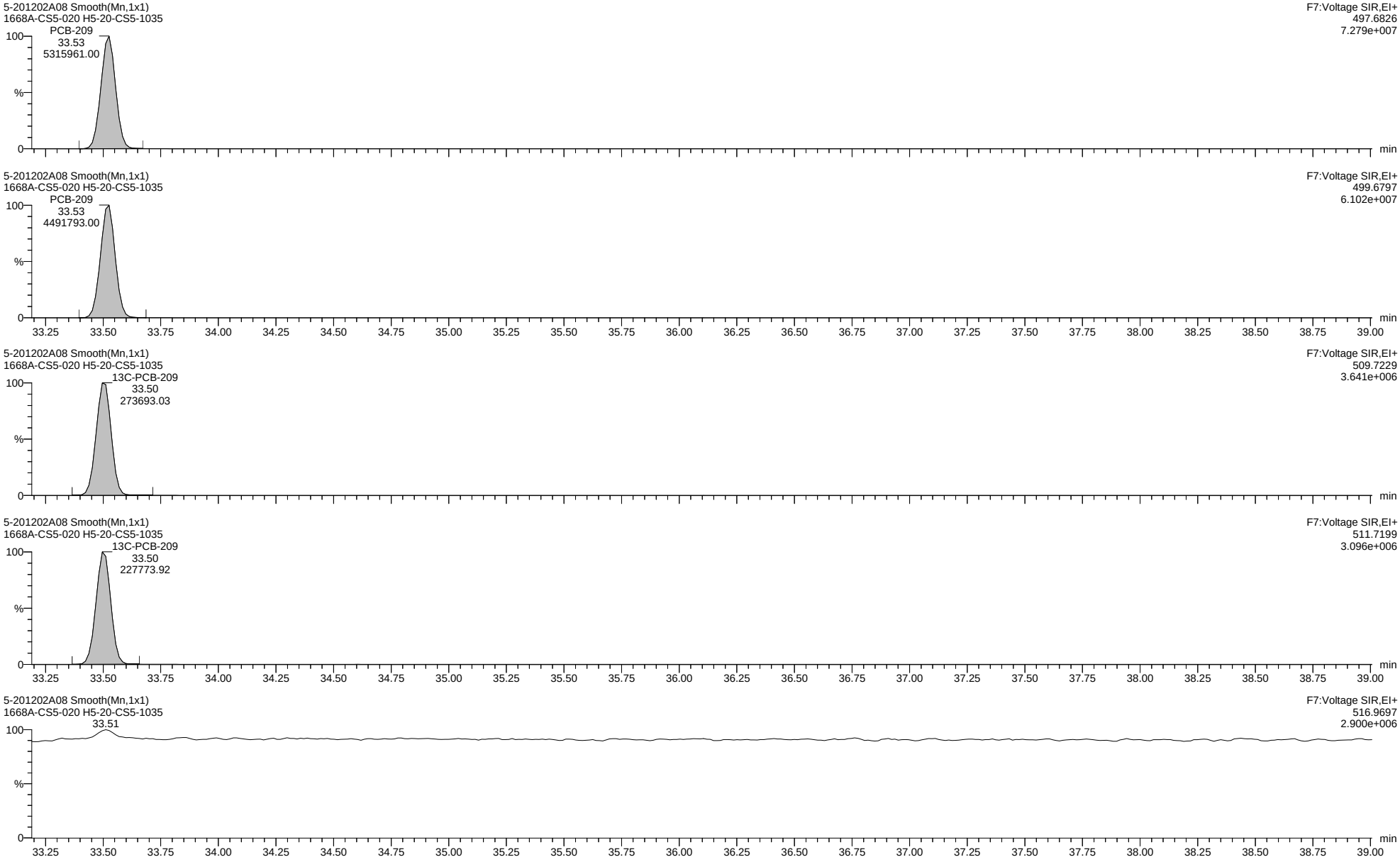
Name: 5-201202A08, Date: 02-Dec-2020, Time: 13:21:16, ID: H5-20-CS5-1035, Description: 1668A-CS5-020, Vial: Tray1:8



Dataset: C:\MassLynx\PCB.PRO\Results\Local\2020-ARCHIVE\2020-December\5-201202A-ICAL.qld

Last Altered: Wednesday, December 02, 2020 16:02:34 Eastern Standard Time
Printed: Wednesday, April 28, 2021 10:50:51 Eastern Daylight Time

Name: 5-201202A08, Date: 02-Dec-2020, Time: 13:21:16, ID: H5-20-CS5-1035, Description: 1668A-CS5-020, Vial: Tray1:8



Quantify Sample Summary Report **MassLynx MassLynx V4.1 SCN 901**

Dataset: C:\MassLynx\PCB.PRO\Results\Local\2020-ARCHIVE\2020-December\5-201202A-RS.qld

Last Altered: Wednesday, December 02, 2020 16:15:00 Eastern Standard Time
Printed: Wednesday, April 28, 2021 10:54:06 Eastern Daylight Time

Method: C:\MassLynx\PCB.PRO\MethDB\1668-OCTYL-1-ICAL-201202A.mdb 07 Feb 2020 11:57:21
Calibration: C:\MassLynx\PCB.PRO\CurveDB\5-201202A-ICAL.cdb 02 Dec 2020 15:02:34

Name: 5-201202A09, Date: 02-Dec-2020, Time: 14:03:28, ID: H5-20-RS1-1035, Description: 1668A-RS1-020, Vial: Tray1:9

	Target Analyte	#Hom	Total Area	Ion1 Area	Ion2 Area	Ra	Ra Fail=Y...	RT	RRT	RT LCL	RT UCL	Conc.	%Rec	Mod.Comment	Noise 1	Noise 2
1	PCB-1		1194970	914081	280888	3.25	NO	8.97	1.00	8.93	9.00	52.22531	104.5		1386	1314
2	PCB-3		1060674	812290	248384	3.27	NO	10.49	1.00	10.46	10.53	50.27805	100.6		1386	1314
3	PCB-4		576669	341376	235292	1.45	NO	10.65	1.00	10.62	10.68	53.67444	107.3		3065	20257
4	PCB-15		935733	573041	362692	1.58	NO	14.32	1.00	14.29	14.36	54.49388	109.0		3200	6481
5	PCB-19		573954	294610	279344	1.05	NO	12.64	1.00	12.61	12.67	55.52118	111.0		3396	2672
6	PCB-37		632309	321234	311075	1.03	NO	18.27	1.00	18.23	18.30	53.44828	106.9		4593	4171
7	PCB-54		701416	307647	393769	0.78	NO	14.49	1.00	14.46	14.52	53.78611	107.6		969	1157
8	PCB-81		462804	203553	259251	0.79	NO	21.83	1.00	21.79	21.86	51.36832	102.7		1603	1539
9	PCB-77		450487	197360	253127	0.78	NO	22.13	1.00	22.10	22.16	51.67874	103.4		1603	1539
10	PCB-104		515471	316044	199427	1.58	NO	17.52	1.00	17.49	17.56	48.92945	97.9		959	1038
11	PCB-123		370292	227617	142675	1.60	NO	23.10	1.00	23.07	23.14	51.76187	103.5		1817	1641
12	PCB-118		411759	252114	159645	1.58	NO	23.27	1.00	23.24	23.31	51.40264	102.8		1817	1641
13	PCB-114		390657	241500	149157	1.62	NO	23.58	1.00	23.54	23.61	52.06190	104.1		1817	1641
14	PCB-105		373421	229573	143847	1.60	NO	23.93	1.00	23.89	23.96	50.49072	101.0		1817	1641
15	PCB-126		334795	205845	128950	1.60	NO	25.52	1.00	25.49	25.55	50.52740	101.1		1817	1641
16	PCB-155		453961	252734	201227	1.26	NO	20.51	1.00	20.48	20.55	49.90611	99.8		883	792
17	PCB-167		322871	177499	145372	1.22	NO	26.40	1.00	26.37	26.44	50.20915	100.4		973	1124
18	PCB-156/157		648980	357360	291620	1.23	NO	27.04	1.00	27.01	27.08	102.52232	102.5		973	1124
19	PCB-169		313418	172456	140963	1.22	NO	28.70	1.00	28.67	28.73	53.09936	106.2		973	1124
20	PCB-188		311178	157591	153586	1.03	NO	23.50	1.00	23.47	23.54	51.38211	102.8		1707	1848
21	PCB-189		292983	150359	142625	1.05	NO	29.96	1.00	29.93	29.99	51.48551	103.0		2254	2104
22	PCB-202		284686	133467	151219	0.88	NO	26.28	1.00	26.25	26.32	52.35957	104.7		541	702
23	PCB-205		218092	102612	115480	0.89	NO	31.34	1.00	31.31	31.37	49.73399	99.5		475	451
24	PCB-208		222074	99535	122539	0.81	NO	29.69	1.00	29.66	29.73	48.79727	97.6		701	747
25	PCB-206		155138	69332	85806	0.81	NO	32.41	1.00	32.38	32.45	47.44740	94.9		701	747
26	PCB-209		232873	126620	106253	1.19	NO	33.53	1.00	33.49	33.56	52.64639	105.3		363	359
27	13C-PCB-31		1333823	688979	644844	1.07	NO	15.83	0.87	15.80	15.86	108.76798	108.8		23203	13197
28	13C-PCB-95		484551	300696	183855	1.64	NO	19.13	1.09	19.09	19.16	106.16294	106.2		2045	1572
29	13C-PCB-153		555285	313804	241481	1.30	NO	24.18	1.18	24.15	24.21	102.38156	102.4		2720	1424
30	13C-PCB-28		1394069	720814	673255	1.07	NO	16.00	0.94	15.96	16.03	101.35416	101.4		23203	13197
31	13C-PCB-111		576918	358073	218845	1.64	NO	22.02	1.07	21.99	22.05	98.92295	98.9		2045	1572
32	13C-PCB-178		385279	195626	189653	1.03	NO	25.06	1.01	25.03	25.09	98.58737	98.6		1280	736
33	13C-PCB-1		2000669	1503221	497448	3.02	NO	8.97	0.75	8.93	9.00	97.36885	97.4		3649	10641
34	13C-PCB-3		1764407	1326430	437978	3.03	NO	10.48	0.88	10.45	10.51	96.60123	96.6		3649	10641

Quantify Sample Summary Report **MassLynx MassLynx V4.1 SCN 901**

Dataset: C:\MassLynx\PCB.PRO\Results\Local\2020-ARCHIVE\2020-December\5-201202A-RS.qld

Last Altered: Wednesday, December 02, 2020 16:15:00 Eastern Standard Time
Printed: Wednesday, April 28, 2021 10:54:06 Eastern Daylight Time

Name: 5-201202A09, Date: 02-Dec-2020, Time: 14:03:28, ID: H5-20-RS1-1035, Description: 1668A-RS1-020, Vial: Tray1:9

	Target Analyte	#Hom	Total Area	Ion1 Area	Ion2 Area	Ra	Ra Fail=Y...	RT	RRT	RT LCL	RT UCL	Conc.	%Rec	Mod.Comment	Noise 1	Noise 2
35	13C-PCB-4		1206416	737920	468496	1.58	NO	10.63	0.89	10.60	10.67	93.83812	93.8		3796	2231
36	13C-PCB-15		1565204	971721	593484	1.64	NO	14.32	1.20	14.28	14.35	97.54217	97.5		9246	3451
37	13C-PCB-19		888813	449231	439582	1.02	NO	12.62	1.06	12.59	12.66	92.47796	92.5		33610	46079
38	13C-PCB-37		1062153	550641	511512	1.08	NO	18.25	1.07	18.22	18.28	93.90020	93.9		23203	13197
39	13C-PCB-54		1221161	536109	685052	0.78	NO	14.47	0.85	14.44	14.51	91.76588	91.8		7205	4478
40	13C-PCB-81		743424	331923	411502	0.81	NO	21.82	1.06	21.78	21.85	93.62711	93.6		5759	3651
41	13C-PCB-77		750522	333768	416754	0.80	NO	22.12	1.07	22.09	22.16	92.91925	92.9		5759	3651
42	13C-PCB-104		913713	559842	353871	1.58	NO	17.51	1.03	17.48	17.55	91.73324	91.7		980	1230
43	13C-PCB-123		649285	401681	247604	1.62	NO	23.09	1.12	23.06	23.13	93.36797	93.4		2728	3050
44	13C-PCB-118		684086	422364	261723	1.61	NO	23.26	1.13	23.23	23.29	93.71024	93.7		2728	3050
45	13C-PCB-114		610206	376772	233434	1.61	NO	23.56	0.95	23.53	23.60	91.69170	91.7		2728	3050
46	13C-PCB-105		613581	378951	234630	1.62	NO	23.91	0.96	23.88	23.95	93.16971	93.2		2728	3050
47	13C-PCB-126		546793	338149	208644	1.62	NO	25.52	1.03	25.49	25.55	91.52440	91.5		2728	3050
48	13C-PCB-155		860079	473713	386366	1.23	NO	20.49	0.99	20.46	20.53	90.89765	90.9		1155	953
49	13C-PCB-167		582698	329043	253655	1.30	NO	26.39	1.06	26.36	26.42	98.37402	98.4		2720	1424
50	13C-PCB-156/157		1108781	630582	478199	1.32	NO	27.03	1.09	27.00	27.06	194.10109	97.1		2720	1424
51	13C-PCB-169		540734	307515	233219	1.32	NO	28.69	1.15	28.65	28.72	100.76100	100.8		2720	1424
52	13C-PCB-188		641953	328671	313282	1.05	NO	23.49	0.94	23.46	23.52	92.33290	92.3		1280	736
53	13C-PCB-189		563928	291333	272595	1.07	NO	29.95	0.96	29.91	29.98	103.86835	103.9		1333	1046
54	13C-PCB-202		504555	240737	263818	0.91	NO	26.26	1.06	26.22	26.29	93.89926	93.9		457	614
55	13C-PCB-205		478981	225563	253418	0.89	NO	31.33	1.01	31.29	31.36	96.58599	96.6		810	1002
56	13C-PCB-208		372637	166055	206581	0.80	NO	29.68	0.96	29.65	29.71	94.22386	94.2		352	537
57	13C-PCB-206		270090	118954	151136	0.79	NO	32.40	1.04	32.37	32.43	97.48940	97.5		352	537
58	13C-PCB-209		436956	239223	197734	1.21	NO	33.51	1.08	33.48	33.54	98.85356	98.9		305	214
59	13C-PCB-9		1910898	1156131	754767	1.53	NO	11.90	0.48	11.86	11.93	95.49103	95.5		3796	2231
60	13C-PCB-52		780002	350559	429443	0.82	NO	16.99	0.68	16.95	17.02	98.66279	98.7		5540	3500
61	13C-PCB-101		512619	315718	196902	1.60	NO	20.64	0.83	20.61	20.68	97.66591	97.7		2045	1572
62	13C-PCB-138		467322	260472	206850	1.26	NO	24.87	0.00	24.83	24.90	93.50433	93.5		2720	1424
63	13C-PCB-194		333123	156315	176808	0.88	NO	31.05	1.25	31.01	31.08	99.61117	99.6		810	1002
64	Total MoCB-F1	3		1768813								45272.69601			1386	
65	Total DiCB-F1	2		361726								41447.28079			3065	
66	Total DiCB-F2	2		579008								8679.67169			3200	
67	Total TrCB-F1	1		294610								55.52118			1515	
68	Total TrCB-F3	4		328703								12180.08048			3075	
69	Total TeCB-F2	1		307647								53.78611			969	
70	Total TeCB-F4	6		404918								7427.29188			1603	
71	Total PeCB-F3	1		316044								48.92945			959	

Quantify Sample Summary Report **MassLynx MassLynx V4.1 SCN 901**

Dataset: C:\MassLynx\PCB.PRO\Results\Local\2020-ARCHIVE\2020-December\5-201202A-RS.qld

Last Altered: Wednesday, December 02, 2020 16:15:00 Eastern Standard Time
Printed: Wednesday, April 28, 2021 10:54:06 Eastern Daylight Time

Name: 5-201202A09, Date: 02-Dec-2020, Time: 14:03:28, ID: H5-20-RS1-1035, Description: 1668A-RS1-020, Vial: Tray1:9

	Target Analyte	#Hom	Total Area	Ion1 Area	Ion2 Area	Ra	Ra Fail=Y...	RT	RRT	RT LCL	RT UCL	Conc.	%Rec	Mod.Comment	Noise 1	Noise 2
72	Total PeCB-F5	11		1177495								30259.04073			1817	
73	Total HxCB-F4	1		252734								49.90611			883	
74	Total HxCB-F5	9		713266								9677.29432			973	
75	Total HpCB-F5	9		167568								19982.33654			833	
76	Total HpCB-F6	4		157301								13365.59373			997	
77	Total OcCB-F5	4		134288								1751.03902			541	
78	Total OcCB-F6	5		111775								21385.31605			475	
79	Total NoCB-F6	2		168867								96.24466			701	
80	Total DeCB-F7	1		126620								52.64639			363	
81	Total 13C-MoCB-F1	2		2829651								193.97007			3649	
82	Total 13C-DiCB-F1	3		1897033								189.80345			3796	
83	Total 13C-DiCB-F2	2		1917063								1817029.876...			9246	
84	Total 13C-TrCB-F1	3		452002								16247.77385			33610	
85	Total 13C-TrCB-F3	3		1960433								304.02234			23203	
86	Total 13C-TeCB-F2	1		536109								91.76588			7205	
87	Total 13C-TeCB-F3	3		359098								101.14479			5540	
88	Total 13C-TeCB-F4	8		679867								20927.42857			5759	
89	Total 13C-PeCB-F3	1		559842								91.73324			980	
90	Total 13C-PeCB-F4	10		979519								308.24836			2045	
91	Total 13C-PeCB-F5	14		1957701								49581.56049			2728	
92	Total 13C-HxCB-F4	2		475913								2213.69762			1155	
93	Total 13C-HxCB-F5	15		1860216								621.32964			2720	
94	Total 13C-HpCB-F5	6		531901								12916.16093			1280	
95	Total 13C-HpCB-F6	5		310772								30487.77858			1333	
96	Total 13C-OcCB-F5	3		241513								1407.66625			457	
97	Total 13C-OcCB-F6	5		394235								211.06844			810	
98	Total 13C-NoCB-F6	2		285009								191.71326			352	
99	Total 13C-DeCB-F7	1		239223								98.85356			305	
100	Lockmass F1			0											380862	
101	Lockmass F2			0											489923	
102	Lockmass F3			0											394385	
103	Lockmass F4			0											345243	
104	Lockmass F5			0											114930	
105	Lockmass F6			0											112938	
106	Lockmass F7			0											28661	

Quantify Audit Report MassLynx MassLynx V4.1 SCN 901

Dataset: C:\MassLynx\PCB.PRO\Results\Local\2020-ARCHIVE\2020-December\5-201202A-RS.qld

Last Altered: Wednesday, December 02, 2020 16:15:00 Eastern Standard Time
Printed: Wednesday, April 28, 2021 10:54:06 Eastern Daylight Time

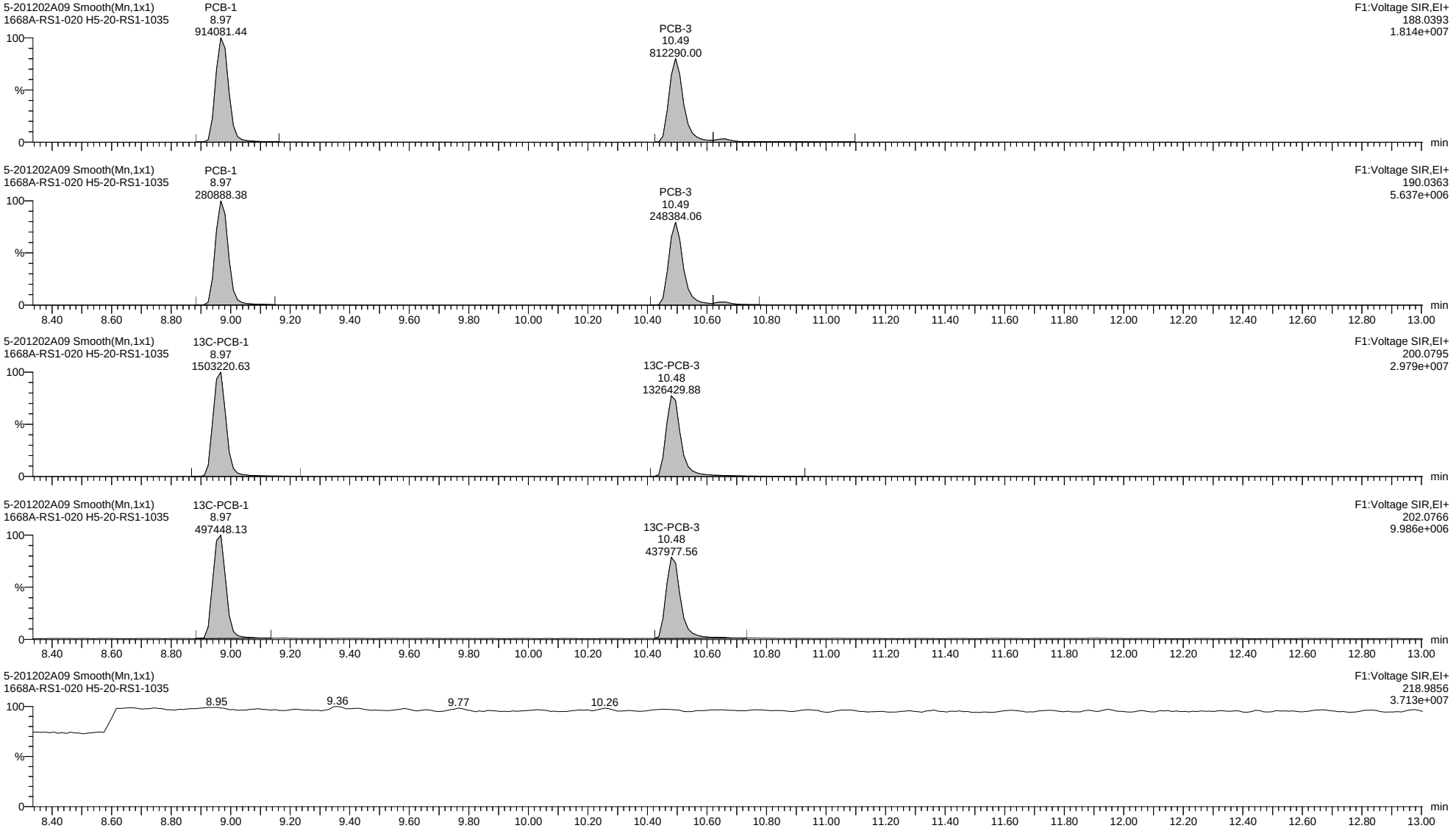
Date	Time	Event	Details	Comments
02-Dec-20	16:14:59	Process Extract		
02-Dec-20	16:15:00	Process Integrate		
02-Dec-20	16:15:00	Process Quantify		
02-Dec-20	16:15:00	Dataset Created		
02-Dec-20	16:15:56	Dataset Saved	Saved to 'C:\MassLynx\PCB.PRO\Results\Local\2020-Decem...	

Dataset: C:\MassLynx\PCB.PRO\Results\Local\2020-ARCHIVE\2020-December\5-201202A-RS.qld

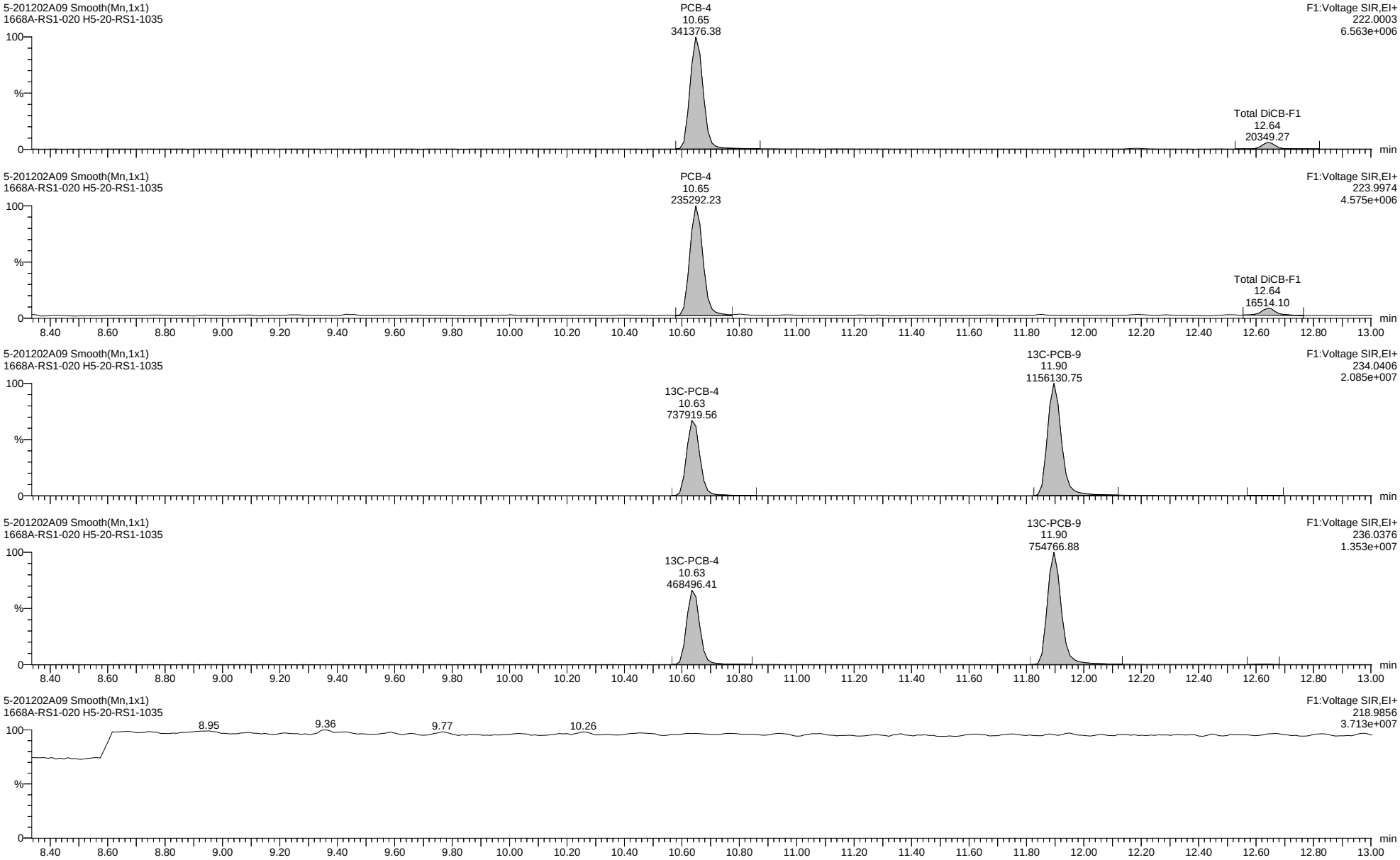
Last Altered: Wednesday, December 02, 2020 16:15:00 Eastern Standard Time
Printed: Wednesday, April 28, 2021 10:54:06 Eastern Daylight Time

Method: C:\MassLynx\PCB.PRO\MethDB\1668-OCTYL-1-ICAL-201202A.mdb 07 Feb 2020 11:57:21
Calibration: C:\MassLynx\PCB.PRO\CurveDB\5-201202A-ICAL.cdb 02 Dec 2020 15:02:34

Name: 5-201202A09, Date: 02-Dec-2020, Time: 14:03:28, ID: H5-20-RS1-1035, Description: 1668A-RS1-020, Vial: Tray1:9



Name: 5-201202A09, Date: 02-Dec-2020, Time: 14:03:28, ID: H5-20-RS1-1035, Description: 1668A-RS1-020, Vial: Tray1:9



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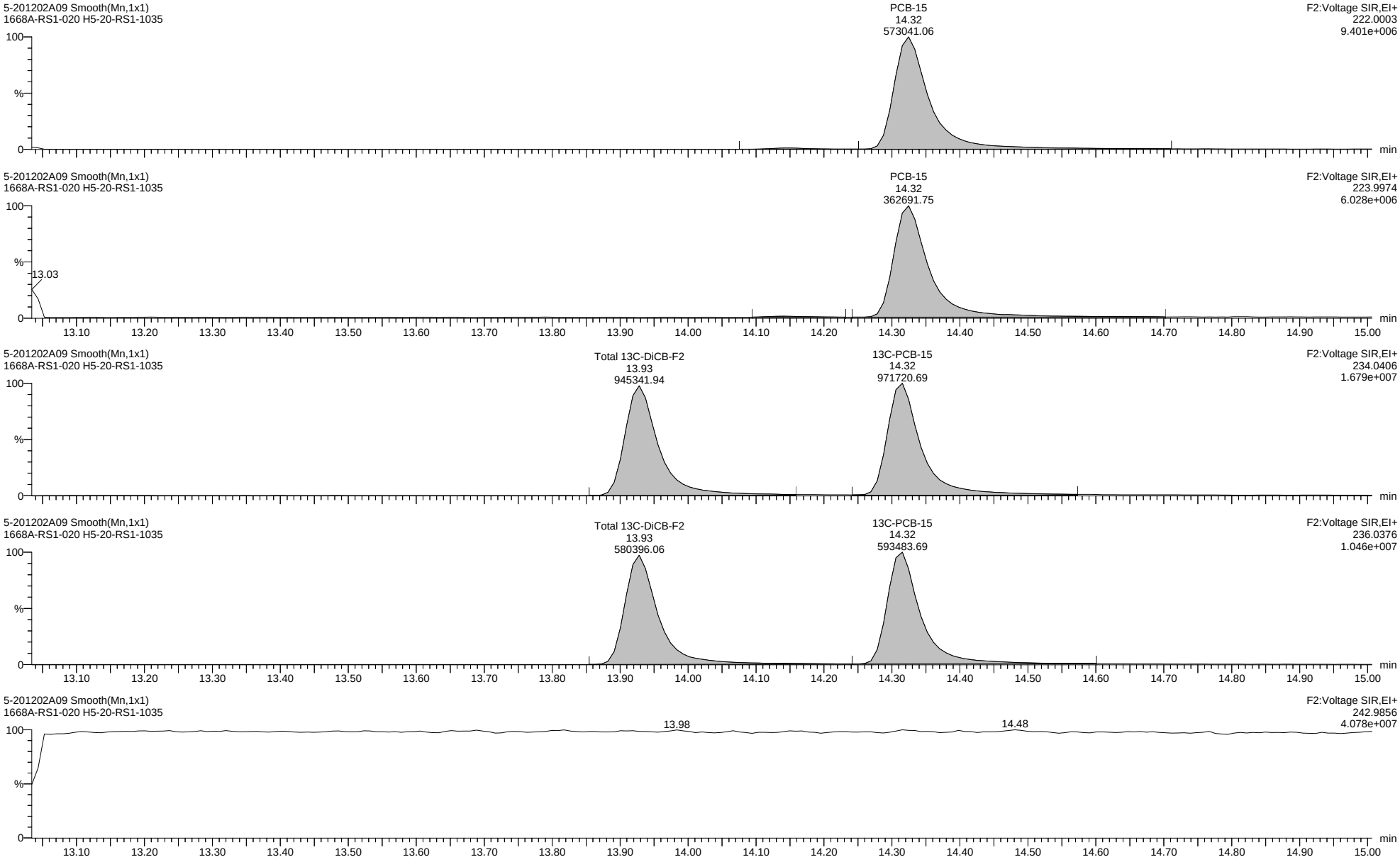

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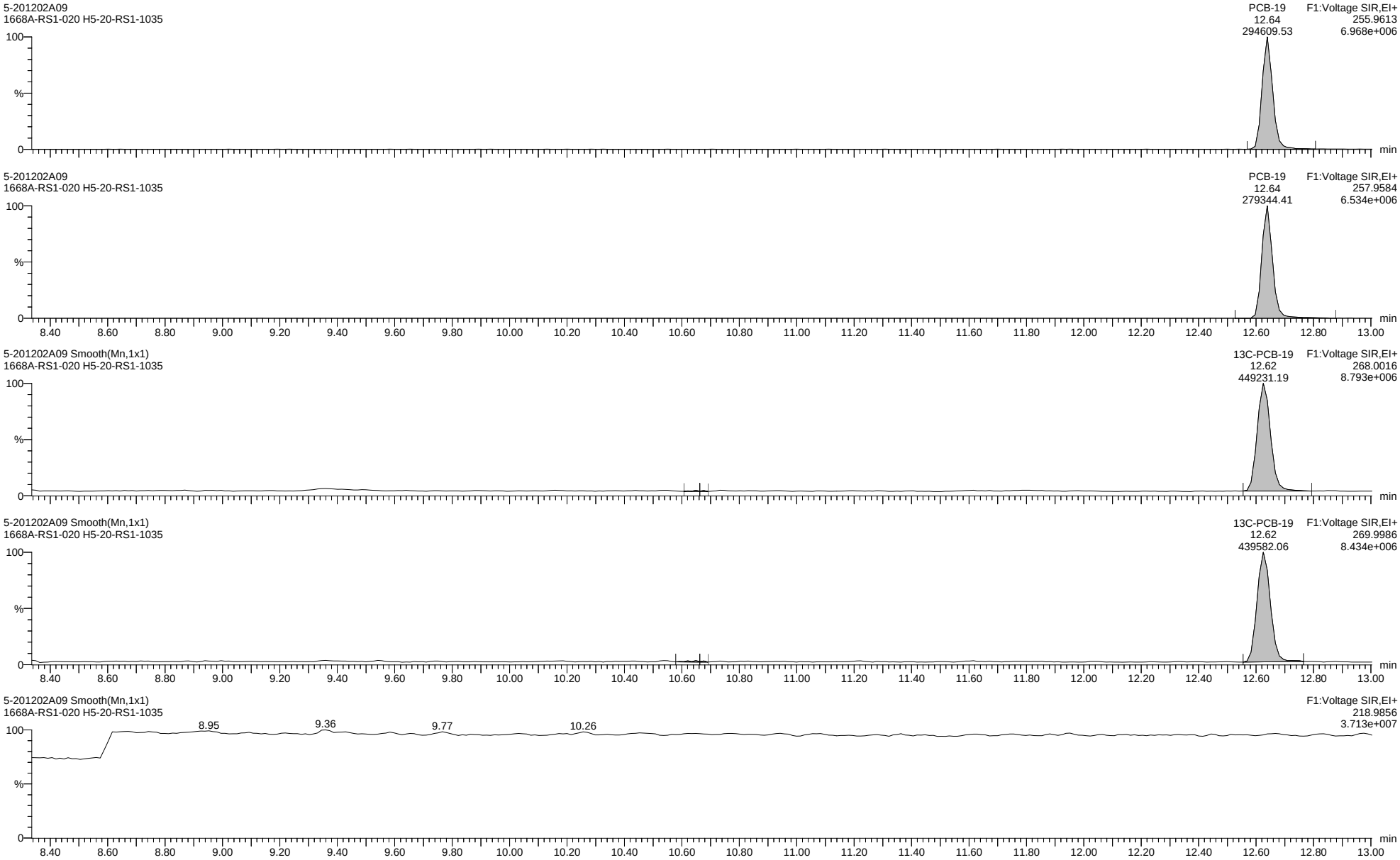

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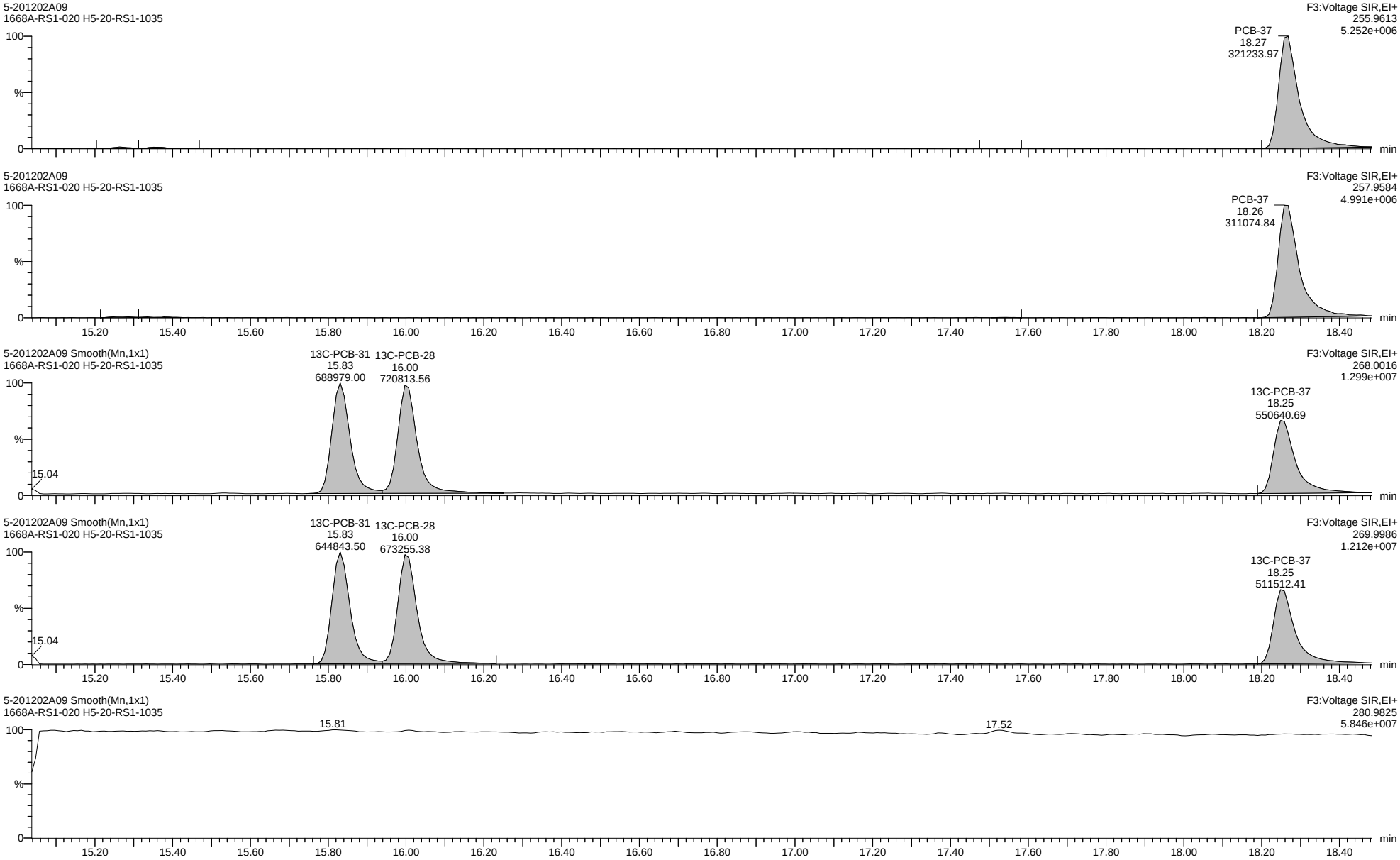

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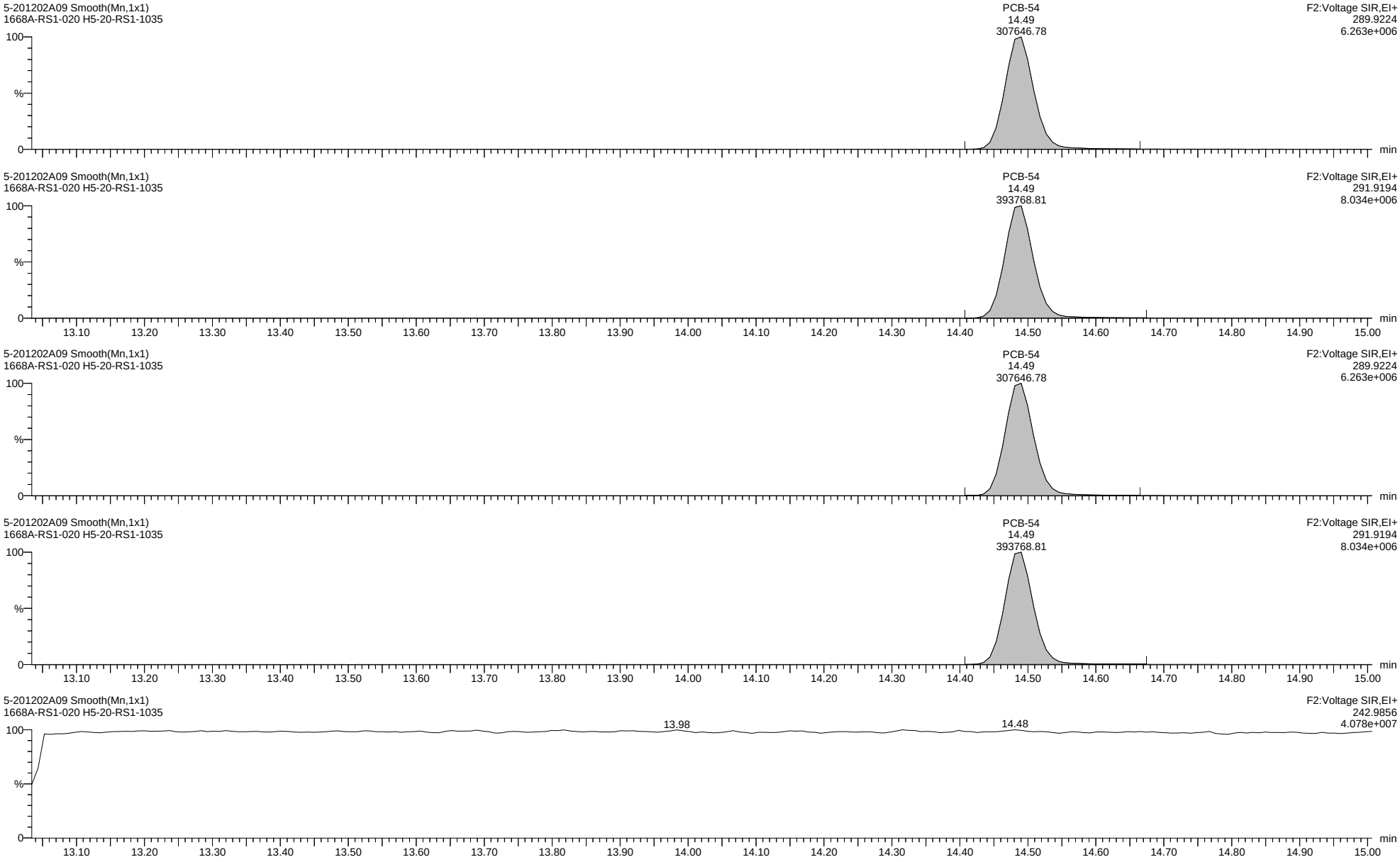

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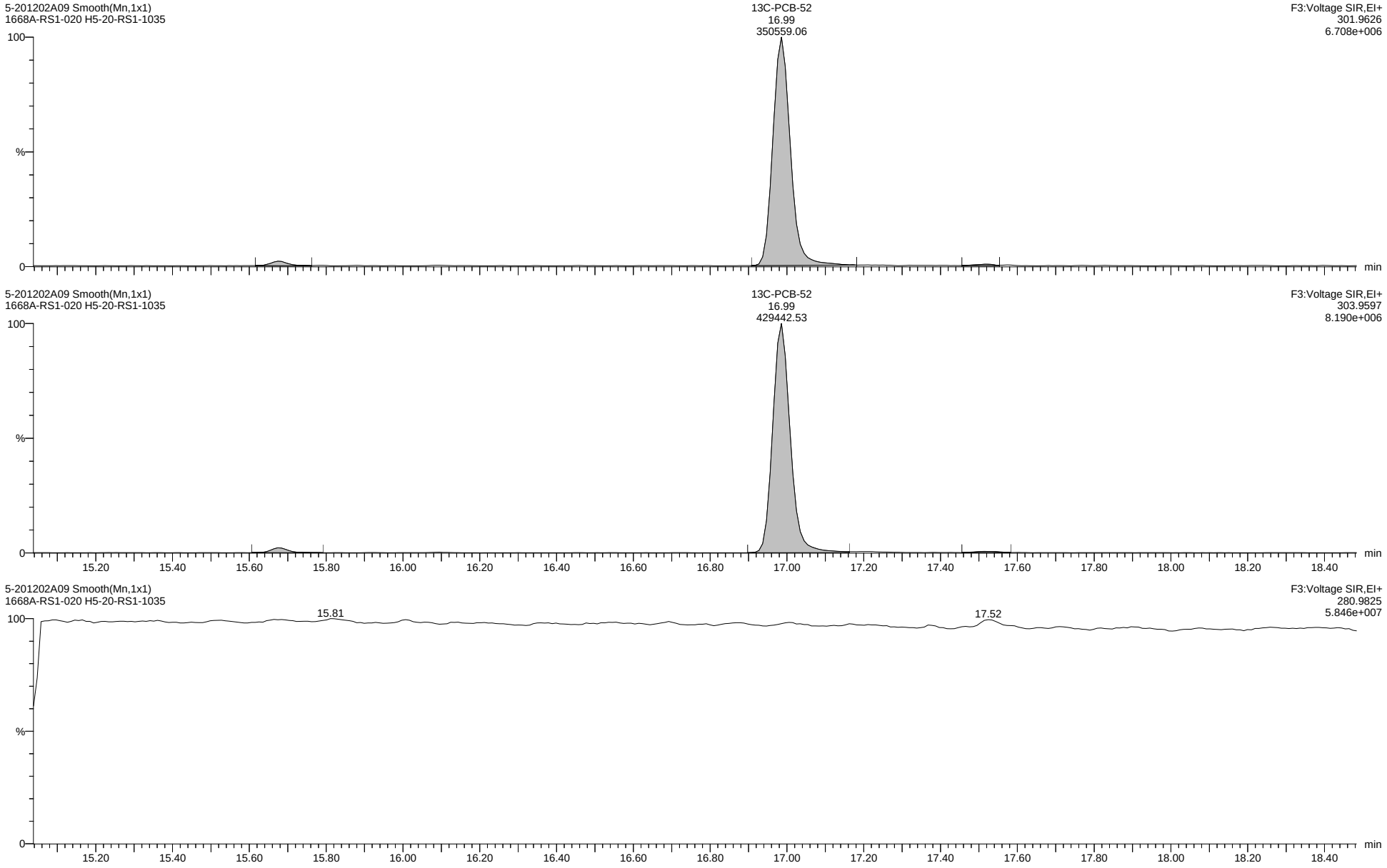

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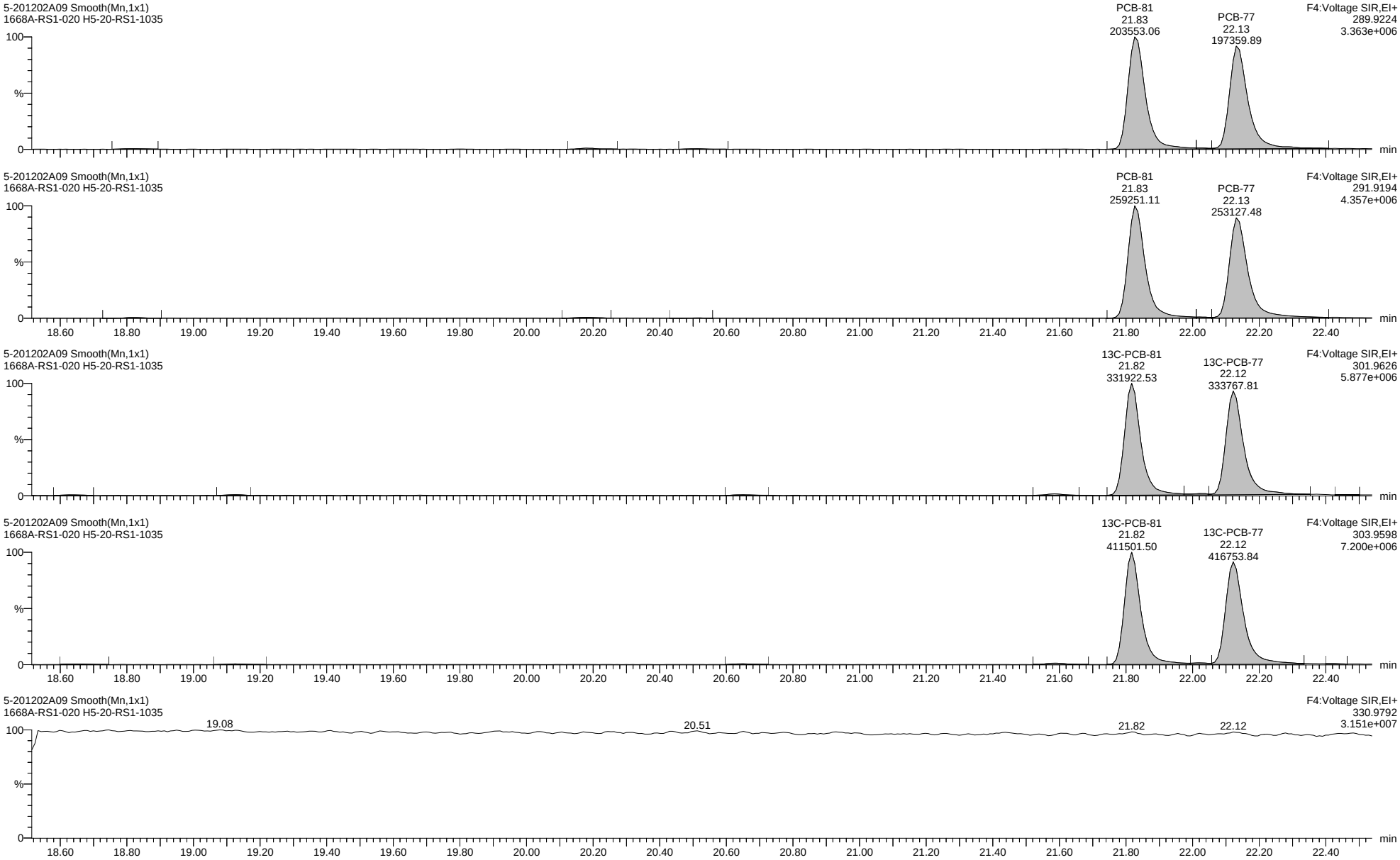

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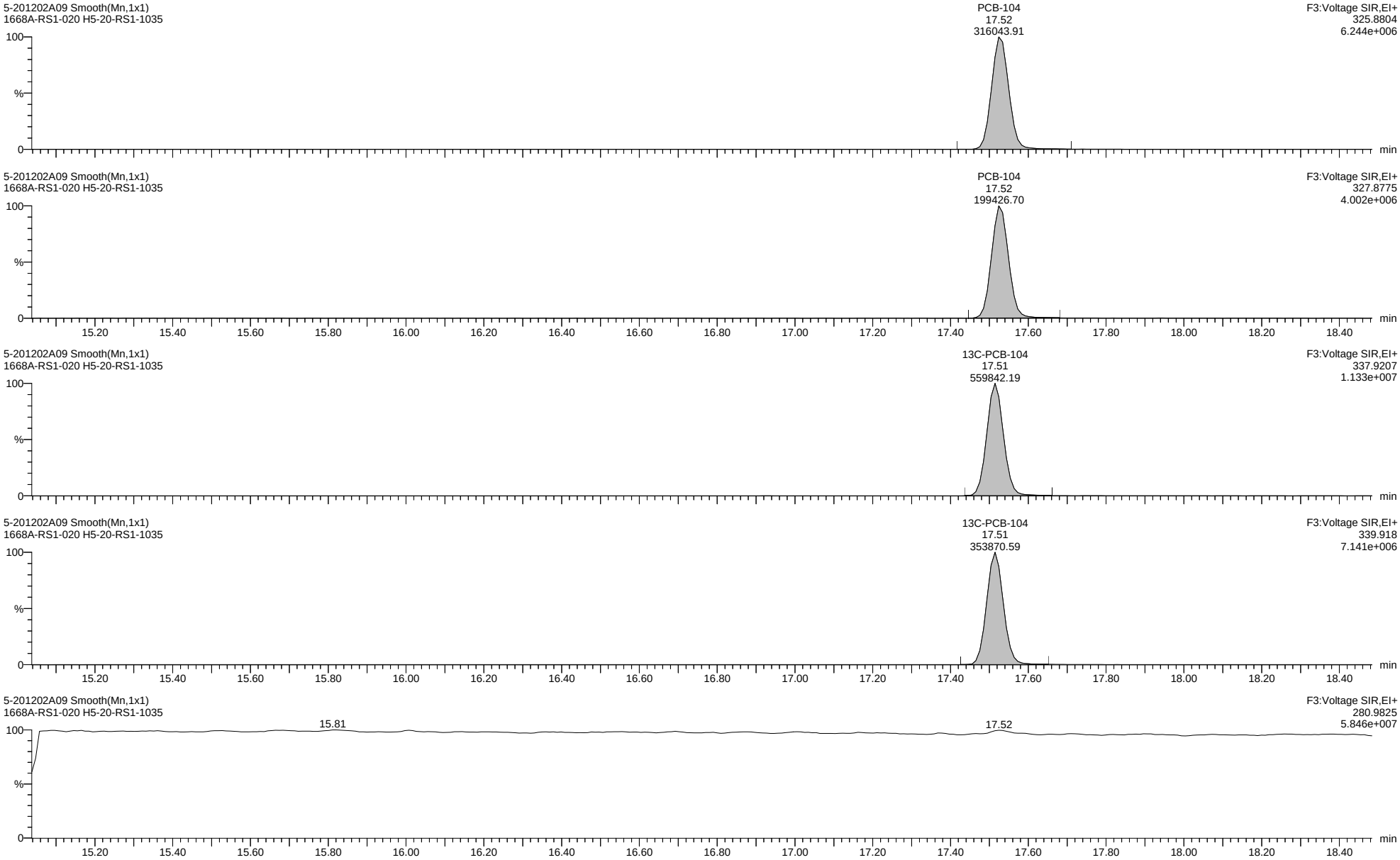

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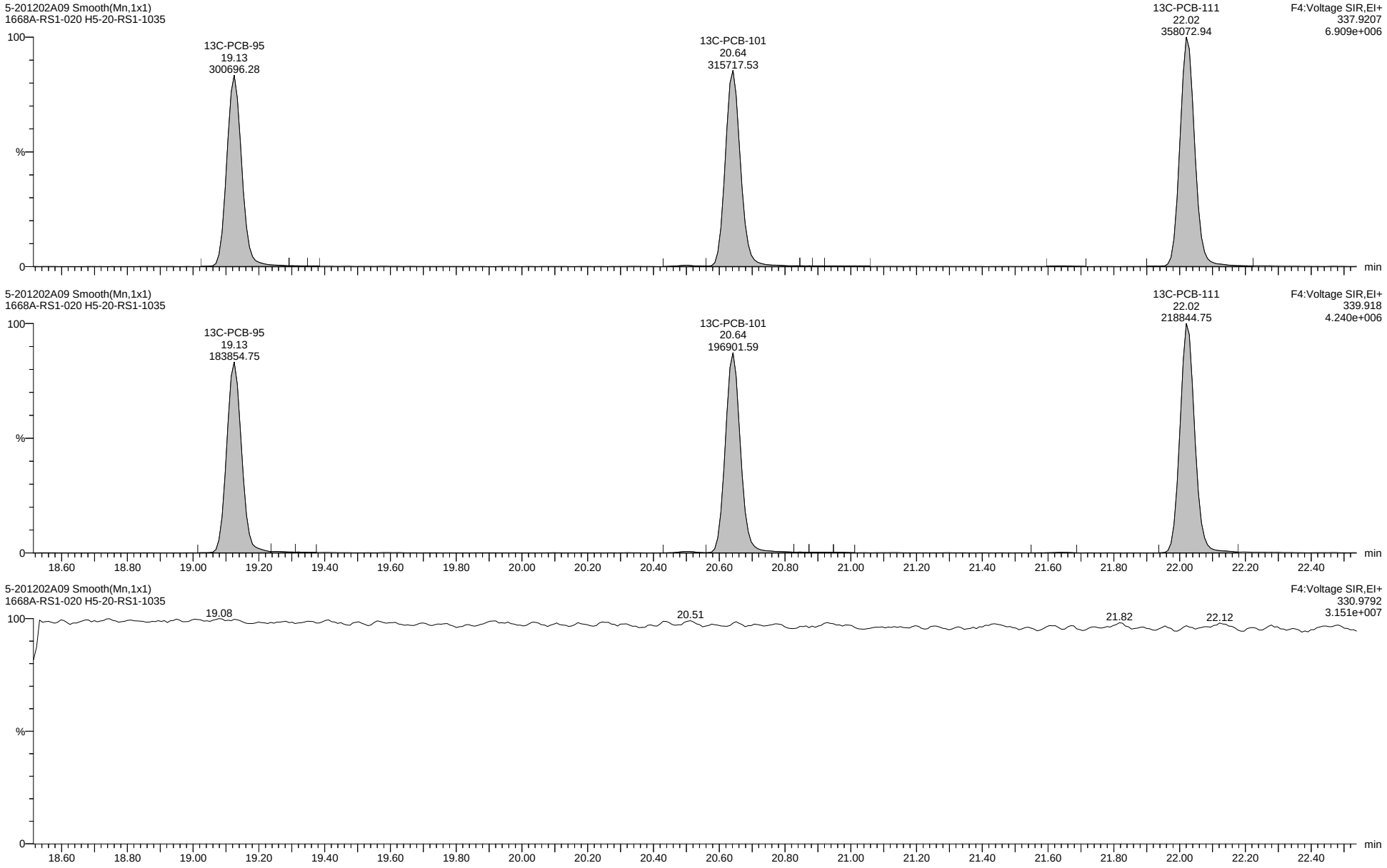

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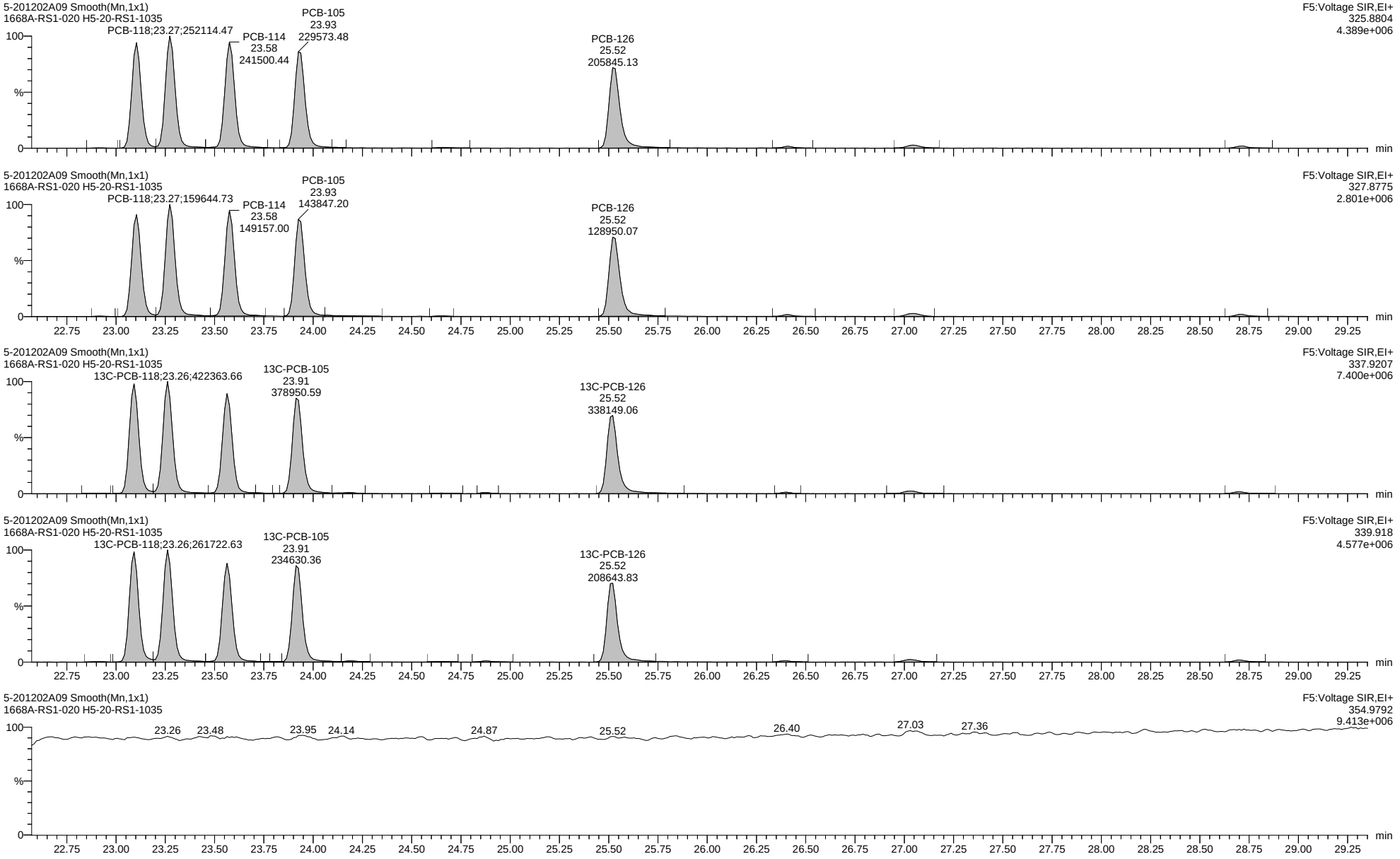

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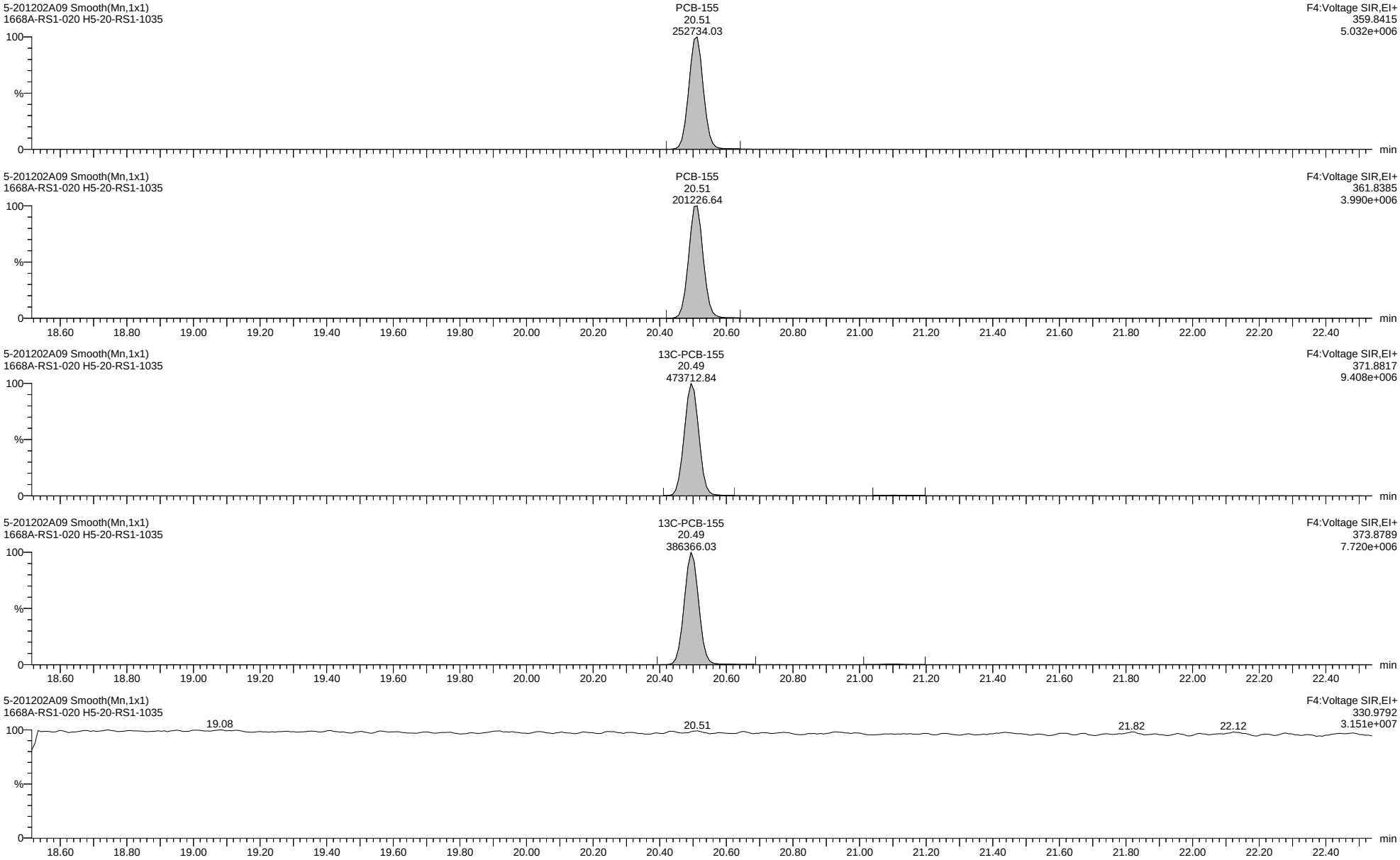

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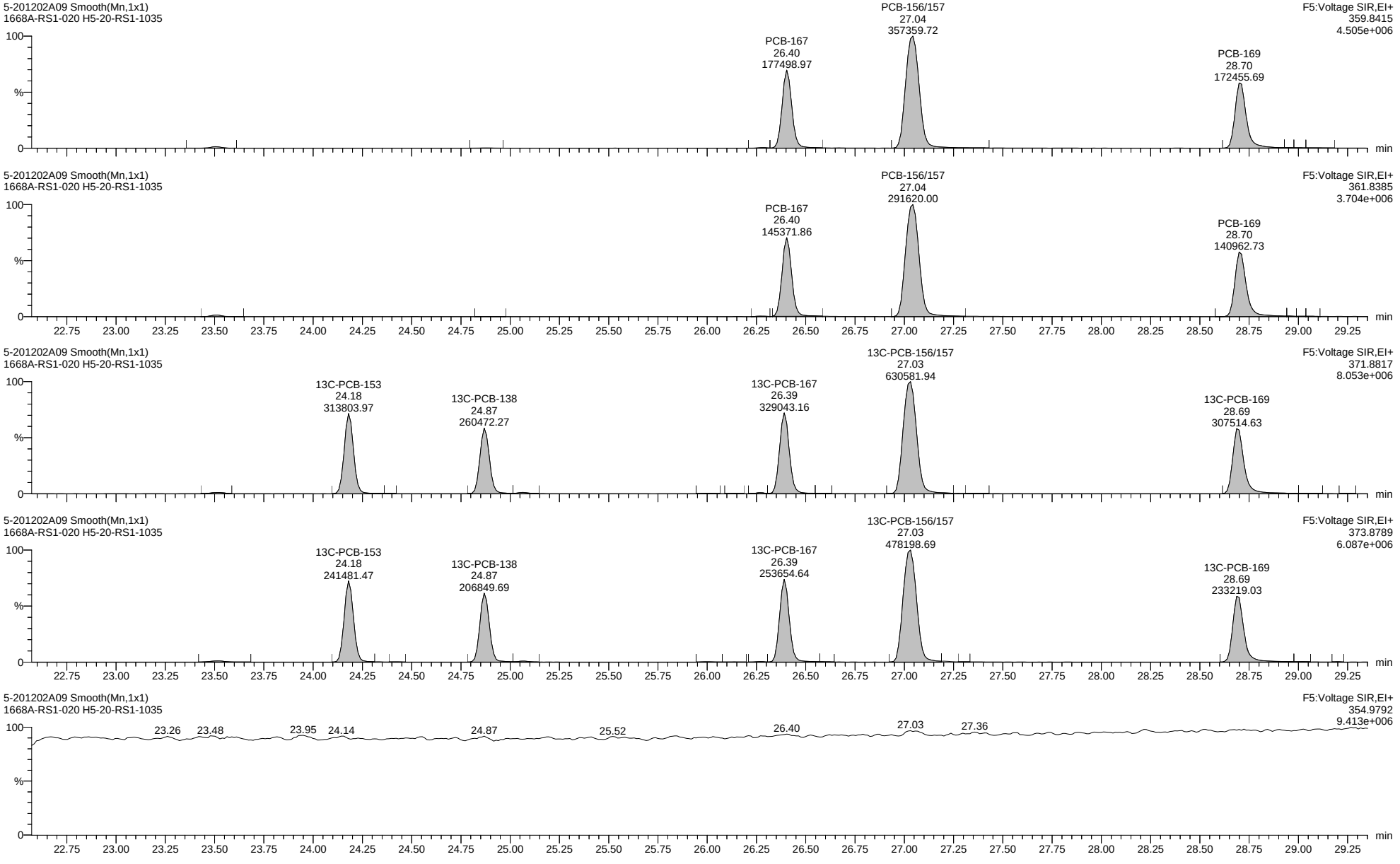

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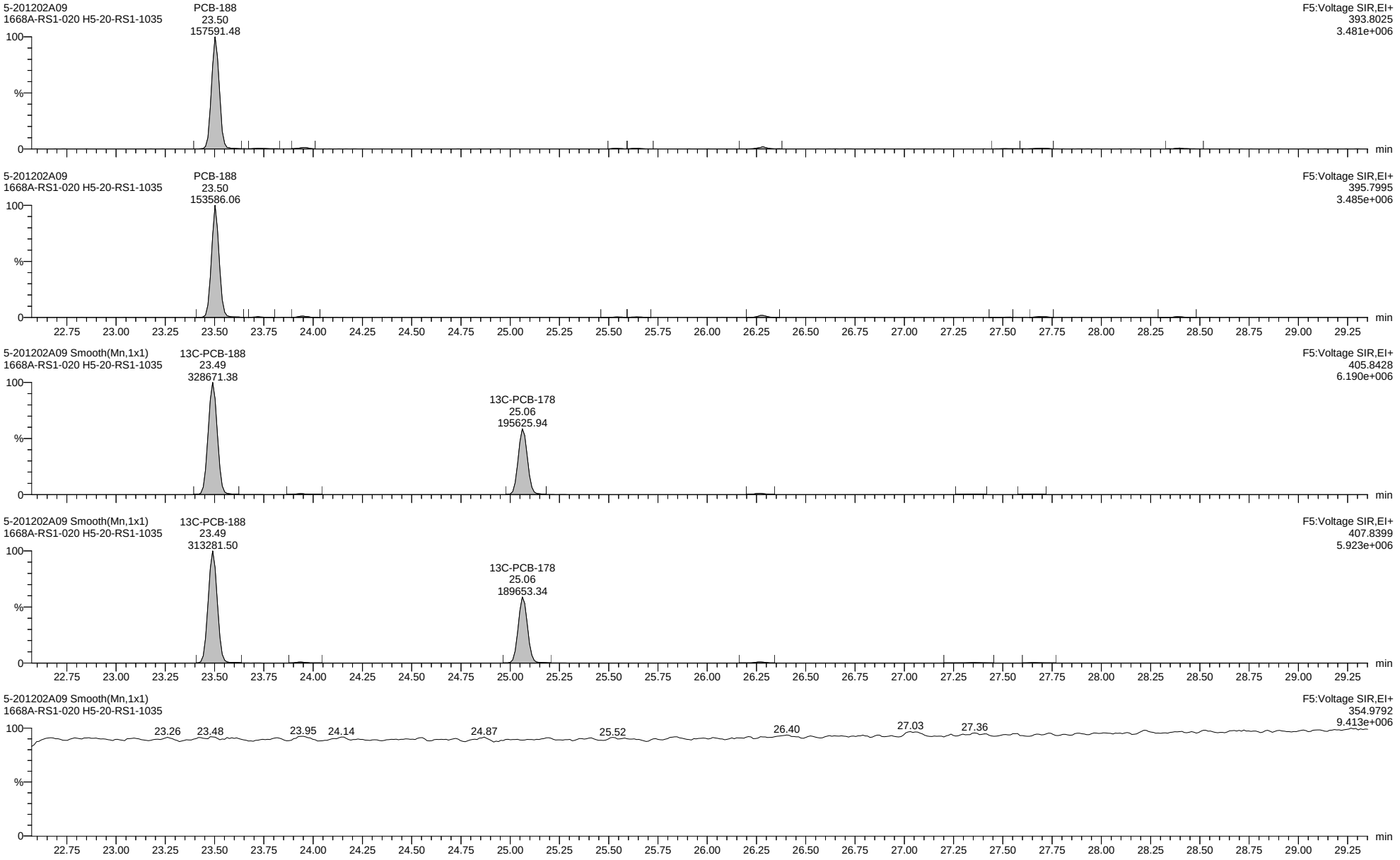

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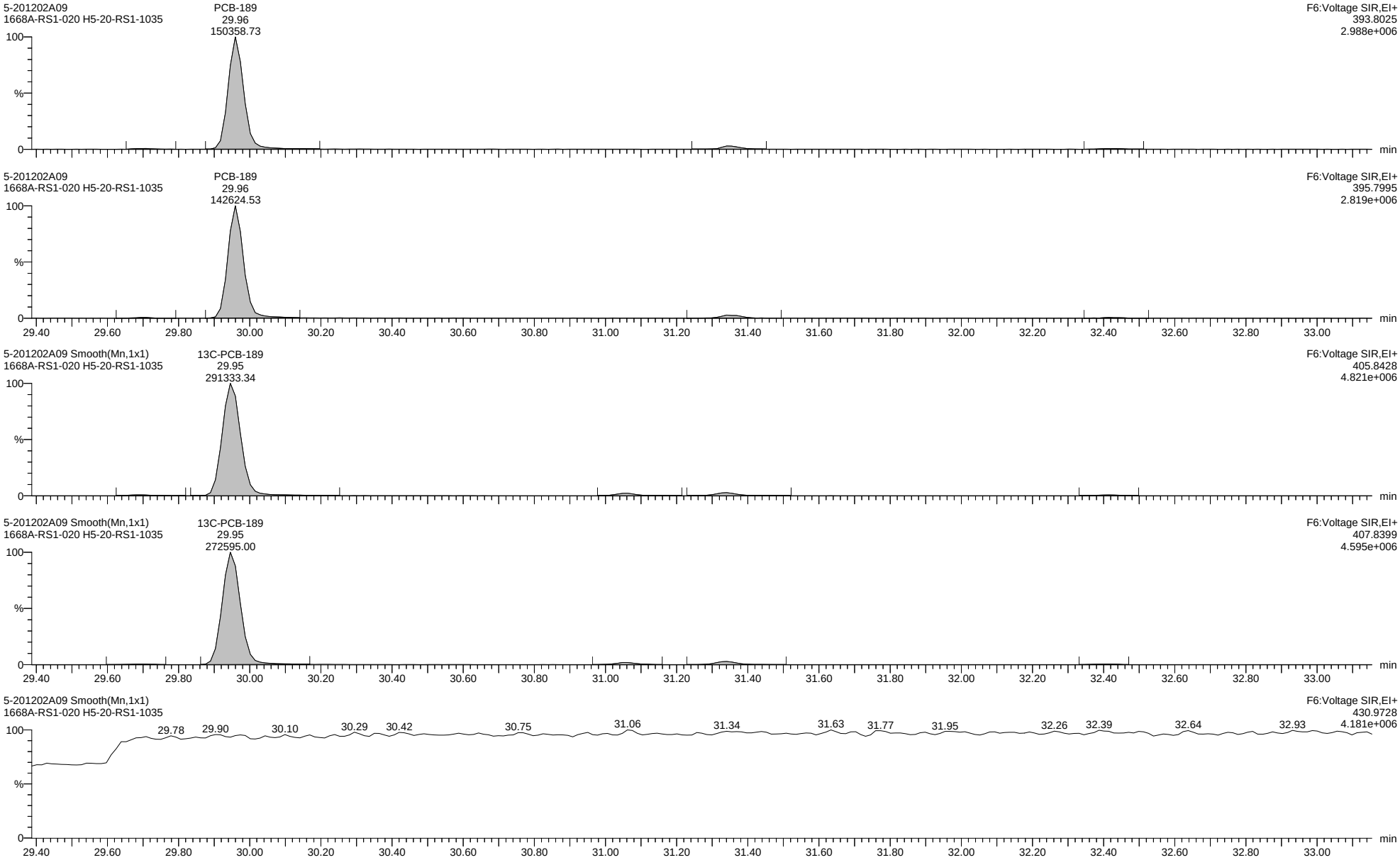

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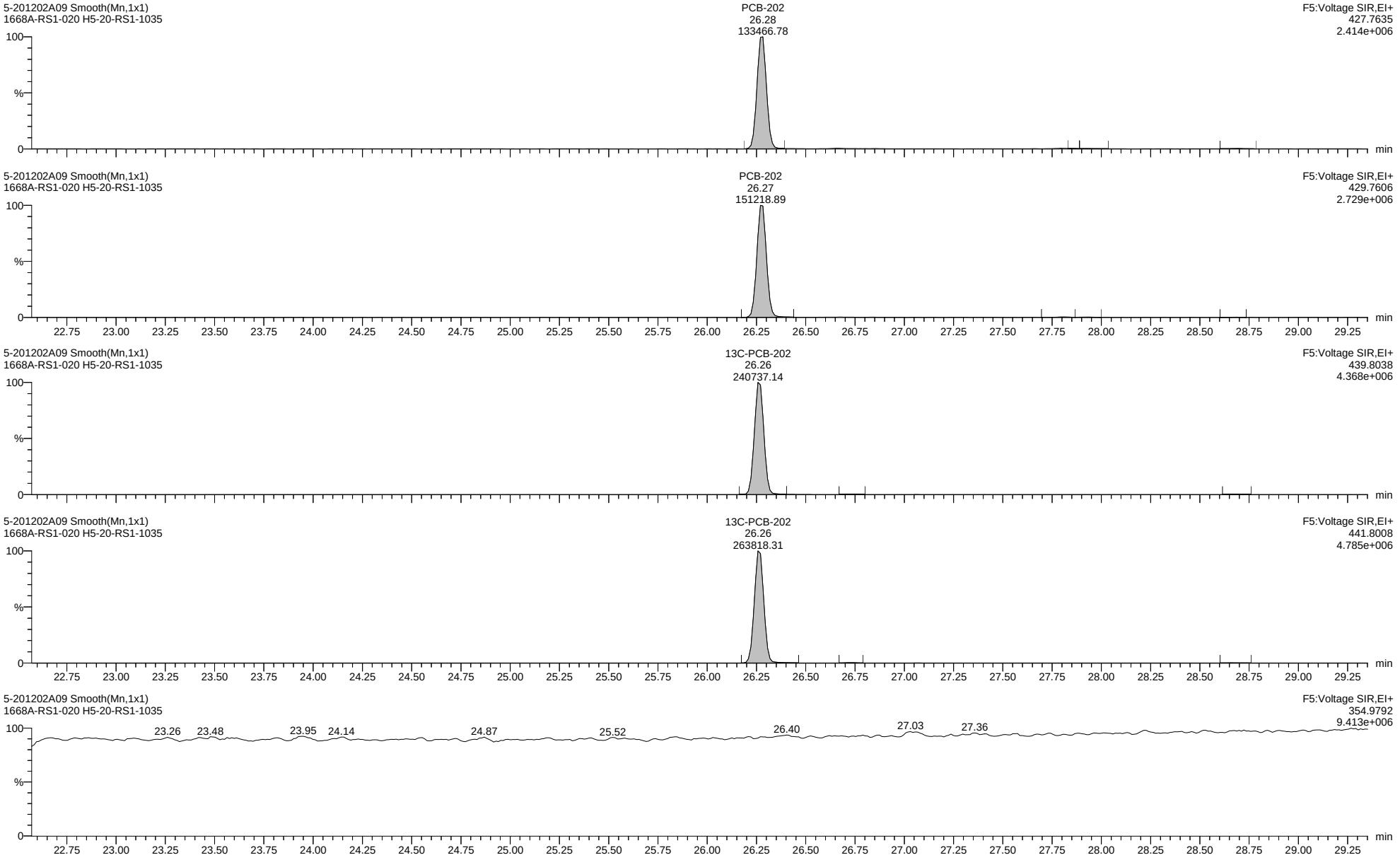

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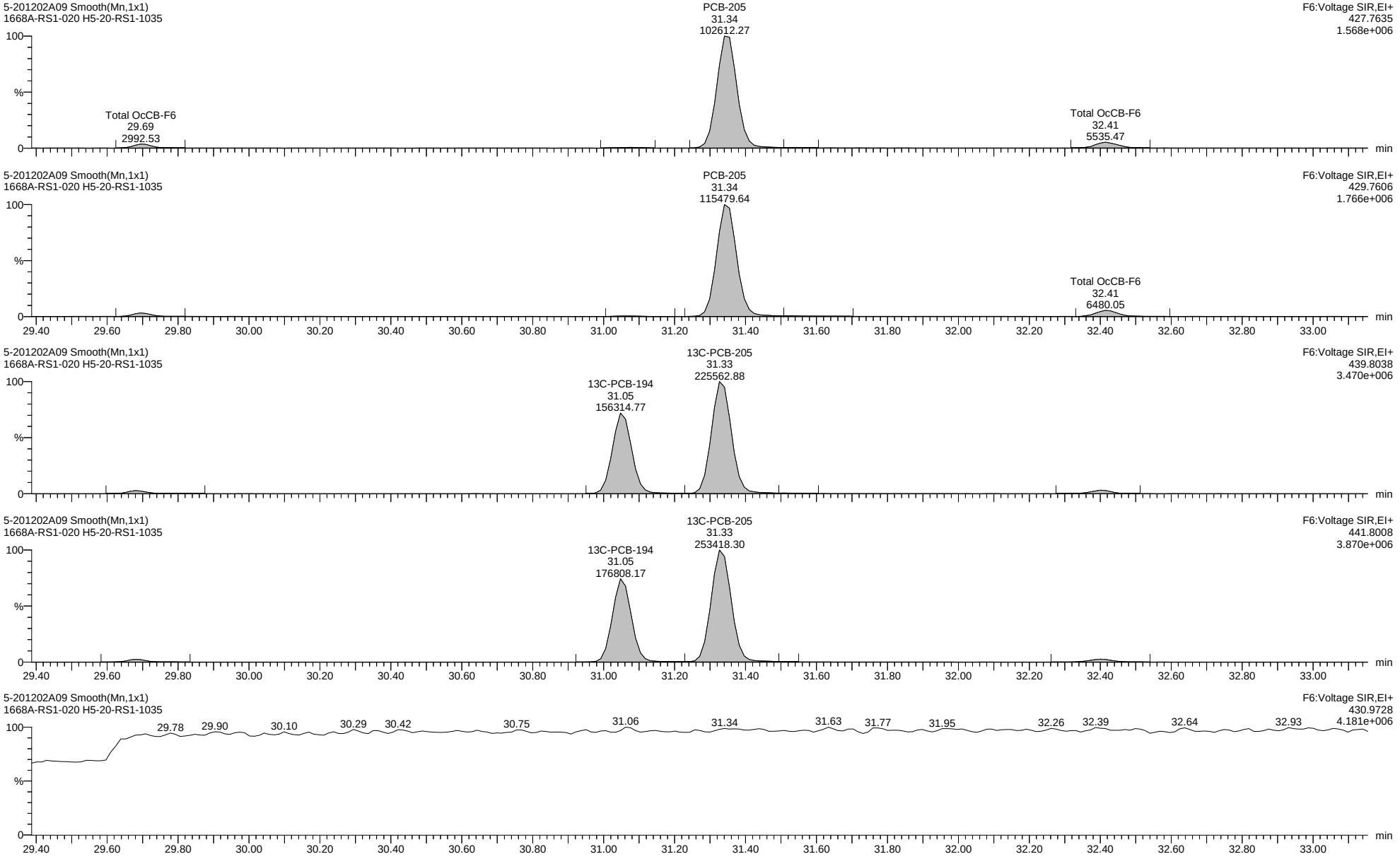

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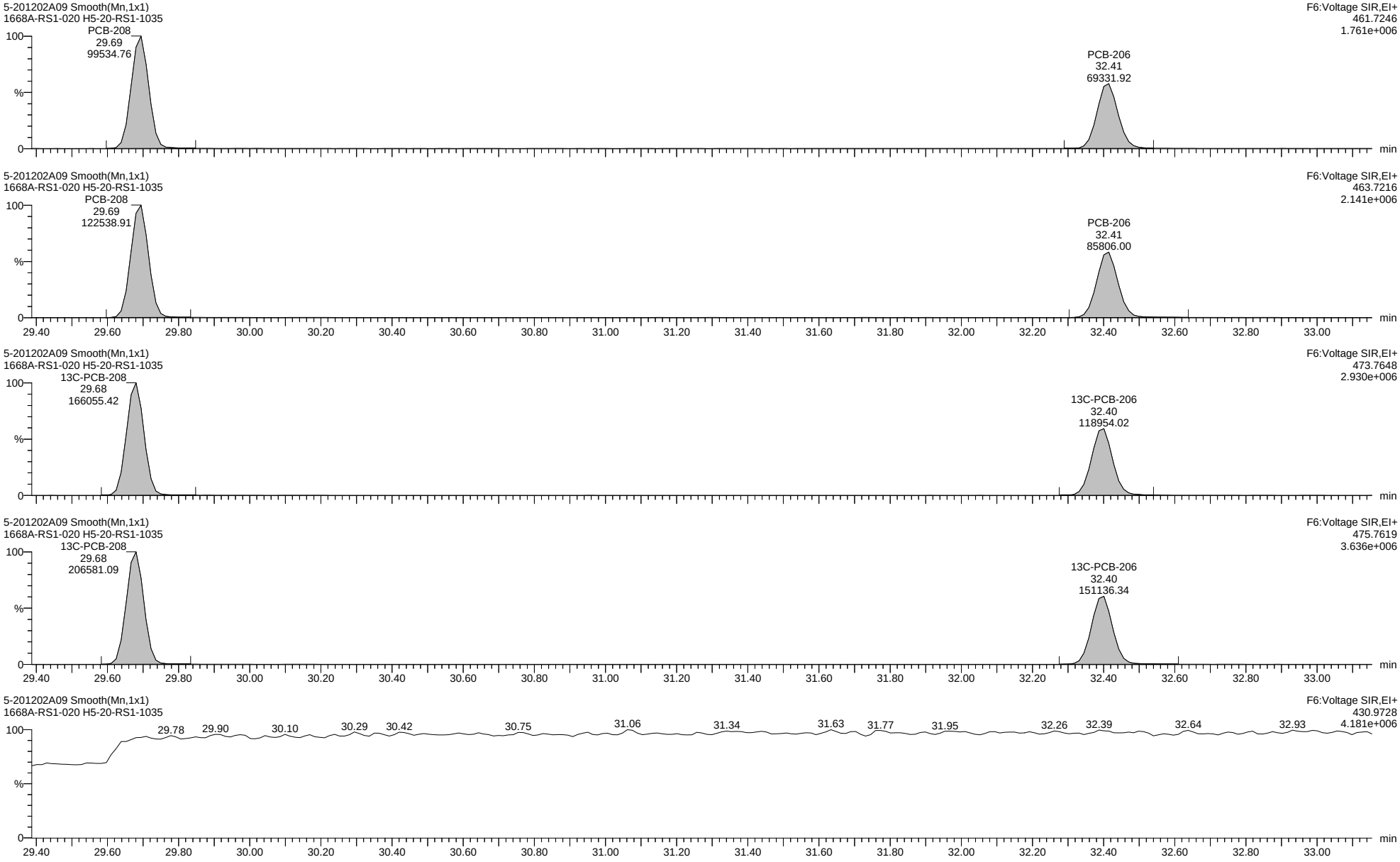

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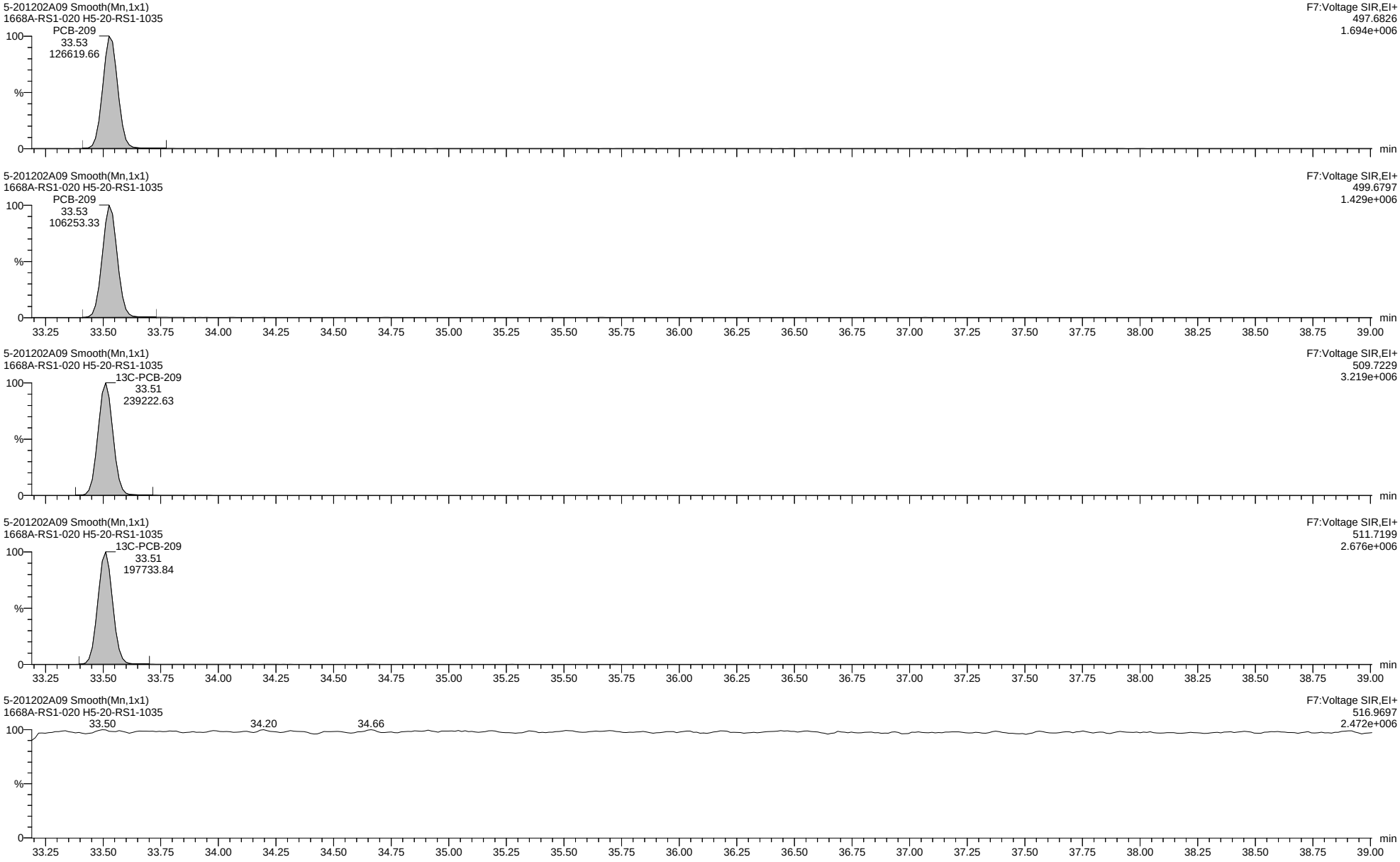
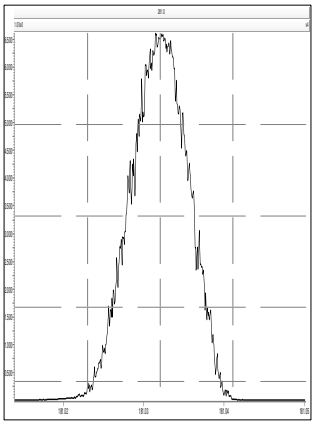


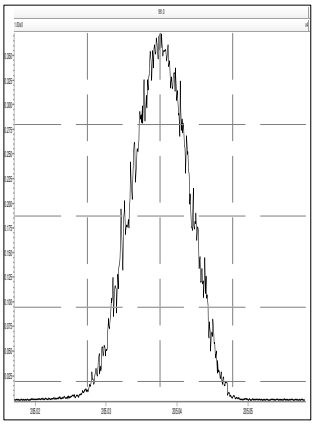
File: Experiment: 1668_octyl_1.exp Reference: Pfk.ref Function: 1 @ 200 (ppm)

Printed: Wednesday, December 02, 2020 09:26:42 Eastern Standard Time

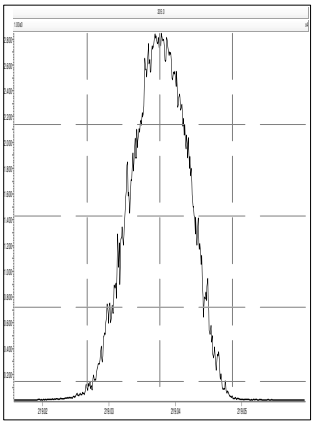
M 180.9888 R 11414



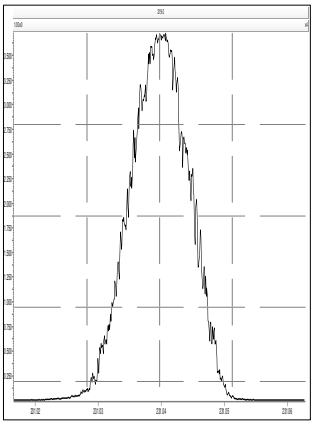
M 204.9888 R 11365



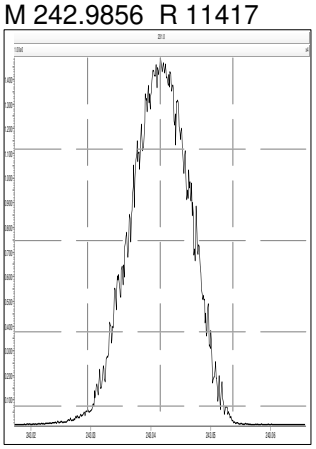
M 218.9856 R 11261



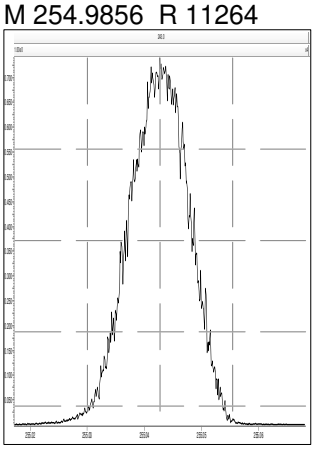
M 230.9856 R 11416



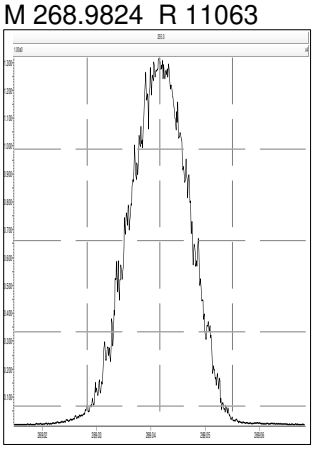
M 242.9856 R 11417



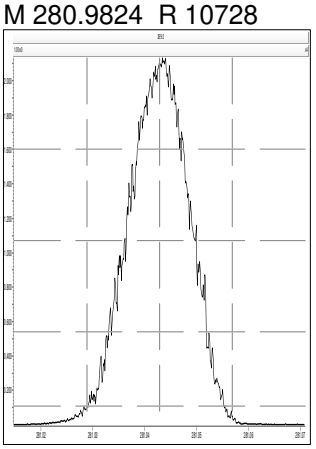
M 254.9856 R 11264



M 268.9824 R 11063



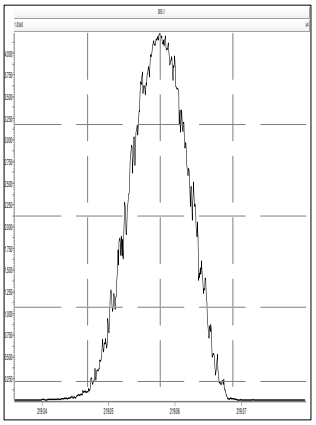
M 280.9824 R 10728



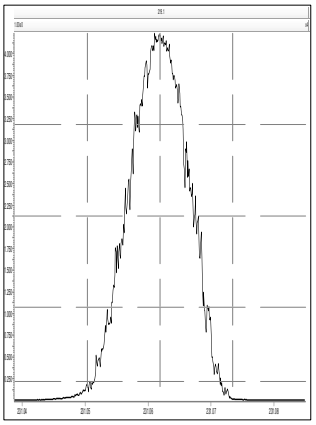
File: Experiment: 1668_octyl_1.exp Reference: Pfk.ref Function: 2 @ 200 (ppm)

Printed: Wednesday, December 02, 2020 09:27:13 Eastern Standard Time

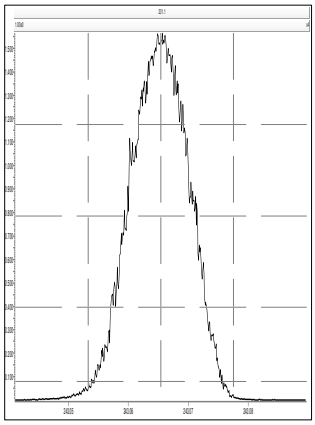
M 218.9856 R 11570



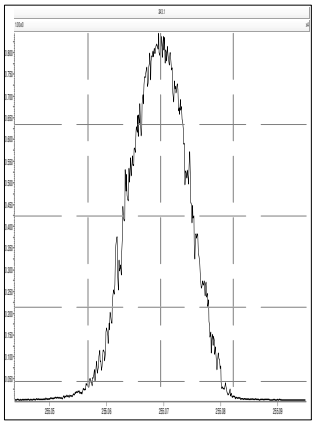
M 230.9856 R 11572



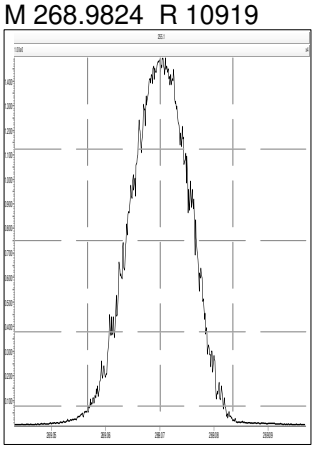
M 242.9856 R 11467



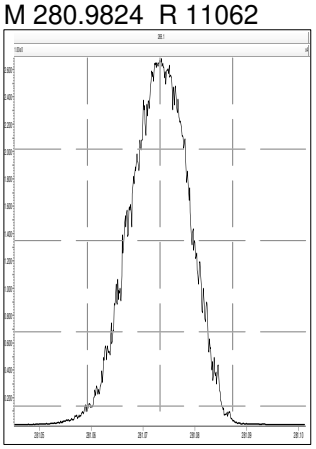
M 254.9856 R 11262



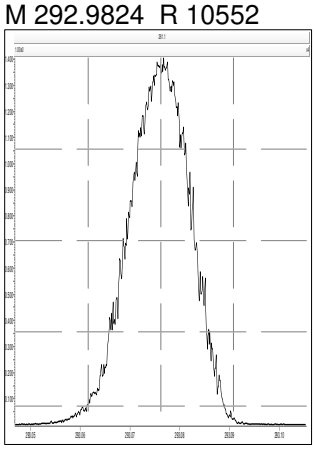
M 268.9824 R 10919



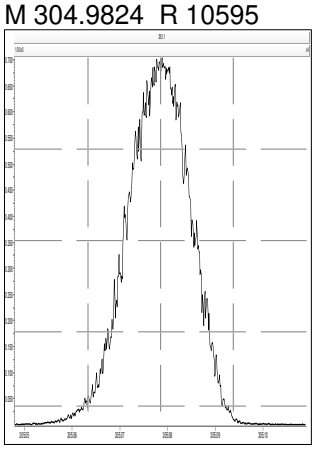
M 280.9824 R 11062



M 292.9824 R 10552



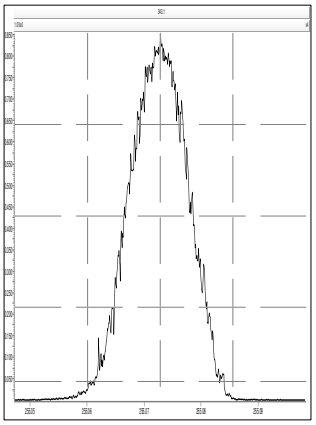
M 304.9824 R 10595



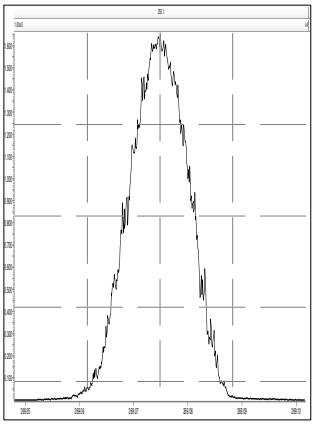
File: Experiment: 1668_octyl_1.exp Reference: Pfk.ref Function: 3 @ 200 (ppm)

Printed: Wednesday, December 02, 2020 09:27:39 Eastern Standard Time

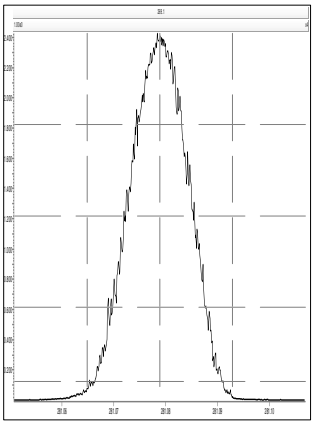
M 254.9856 R 11262



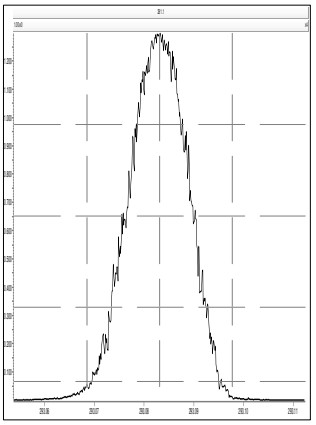
M 268.9824 R 11411



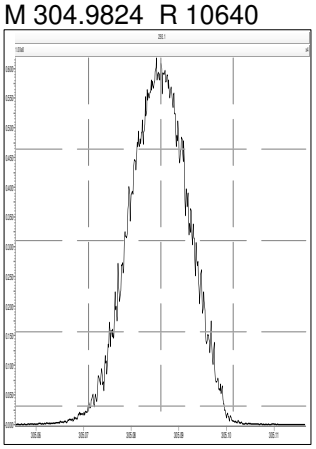
M 280.9824 R 11261



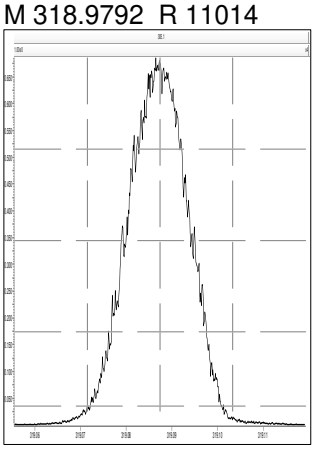
M 292.9824 R 11466



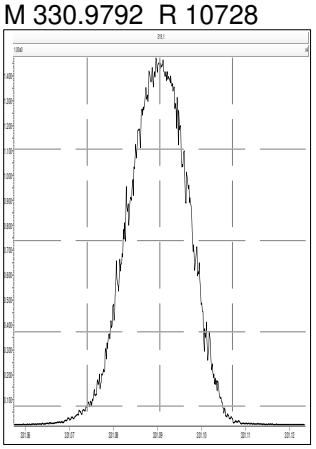
M 304.9824 R 10640



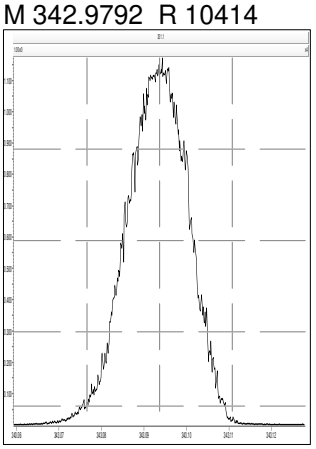
M 318.9792 R 11014



M 330.9792 R 10728



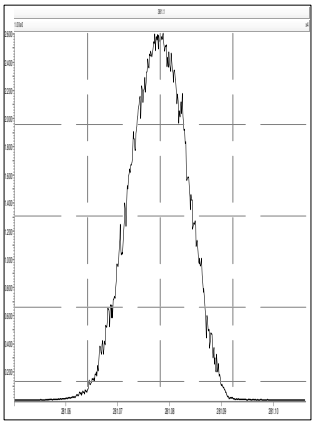
M 342.9792 R 10414



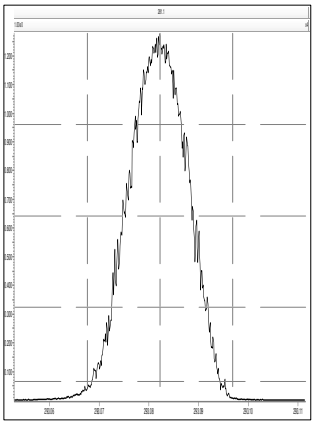
File: Experiment: 1668_octyl_1.exp Reference: Pfk.ref Function: 4 @ 200 (ppm)

Printed: Wednesday, December 02, 2020 09:28:09 Eastern Standard Time

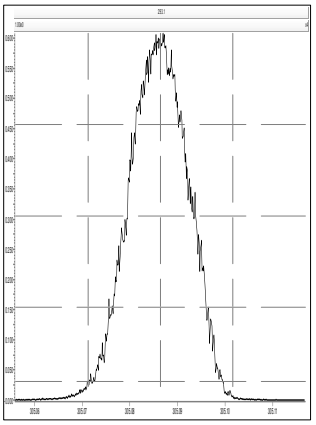
M 280.9824 R 11261



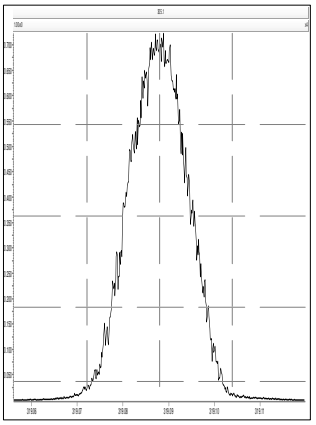
M 292.9824 R 11362



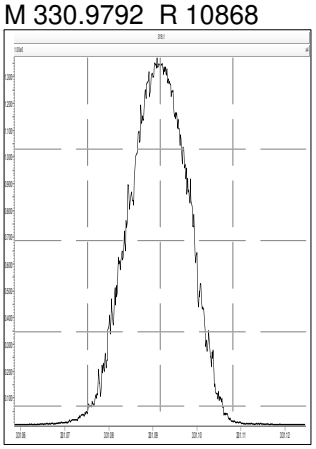
M 304.9824 R 11015



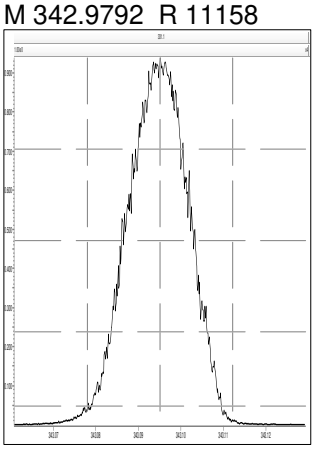
M 318.9792 R 11112



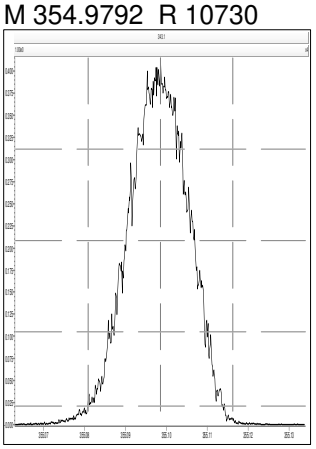
M 330.9792 R 10868



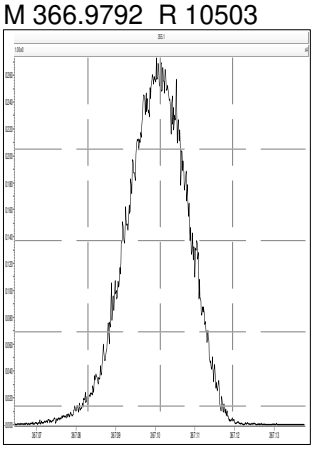
M 342.9792 R 11158



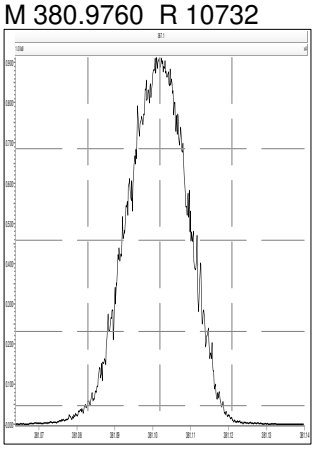
M 354.9792 R 10730



M 366.9792 R 10503



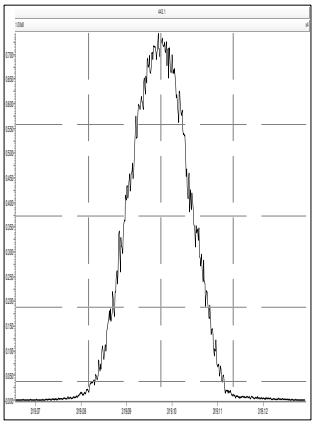
M 380.9760 R 10732



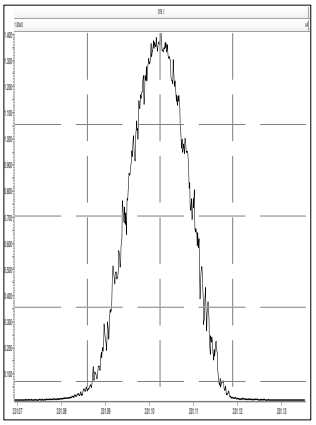
File: Experiment: 1668_octyl_1.exp Reference: Pfk.ref Function: 5 @ 200 (ppm)

Printed: Wednesday, December 02, 2020 09:28:43 Eastern Standard Time

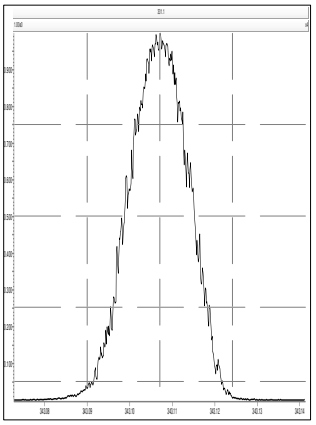
M 318.9792 R 11206



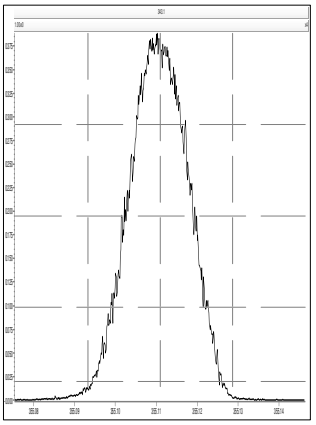
M 330.9792 R 11467



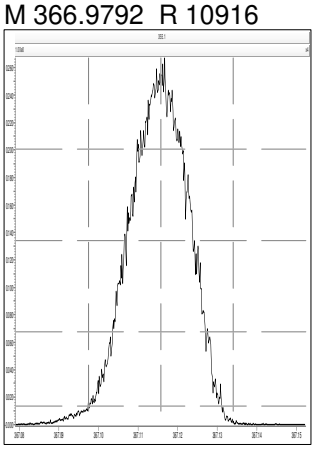
M 342.9792 R 11366



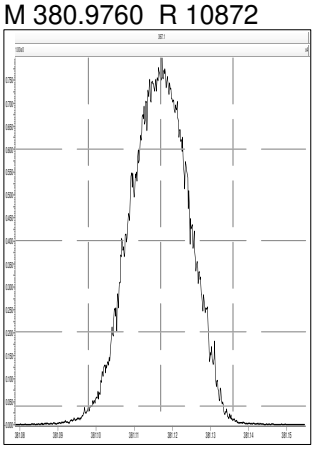
M 354.9792 R 11464



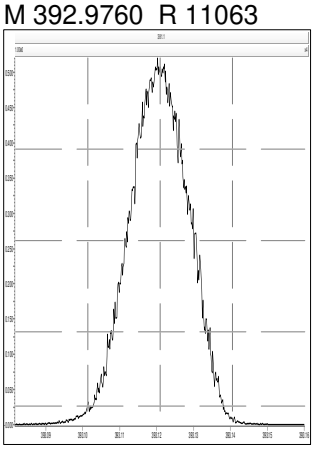
M 366.9792 R 10916



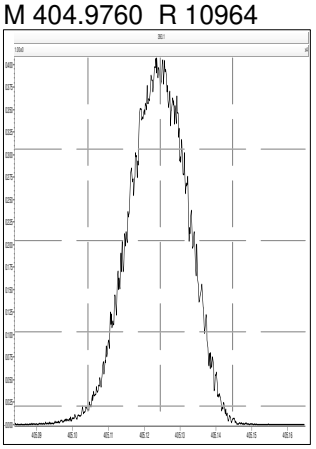
M 380.9760 R 10872



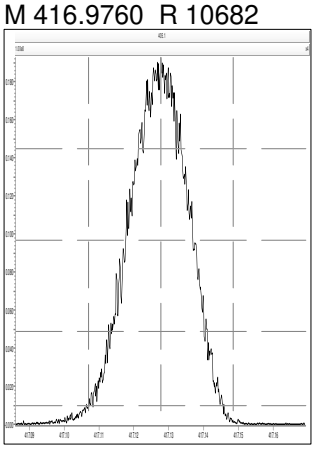
M 392.9760 R 11063



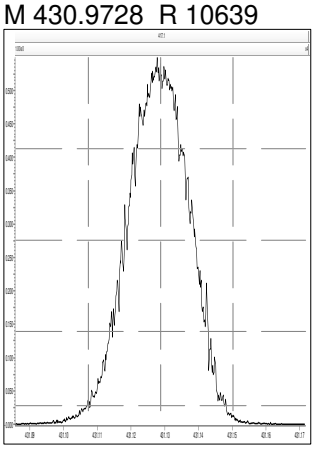
M 404.9760 R 10964



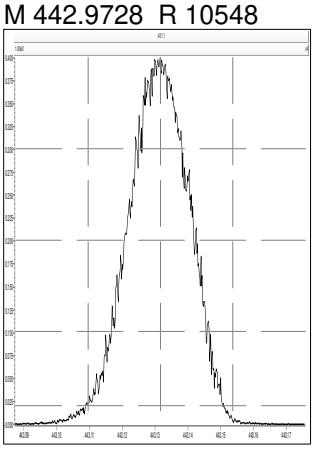
M 416.9760 R 10682



M 430.9728 R 10639



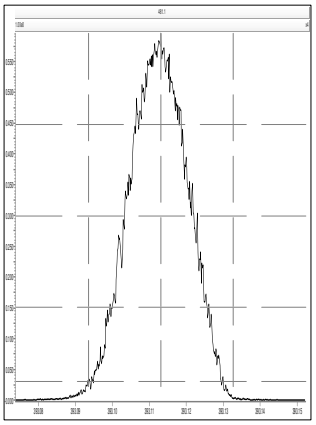
M 442.9728 R 10548



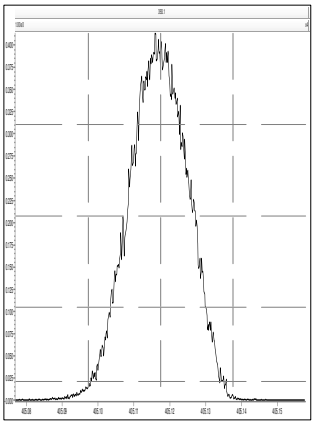
File: Experiment: 1668_octyl_1.exp Reference: Pfk.ref Function: 6 @ 200 (ppm)

Printed: Wednesday, December 02, 2020 09:29:12 Eastern Standard Time

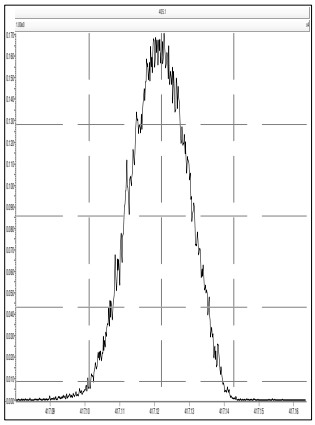
M 392.9760 R 11364



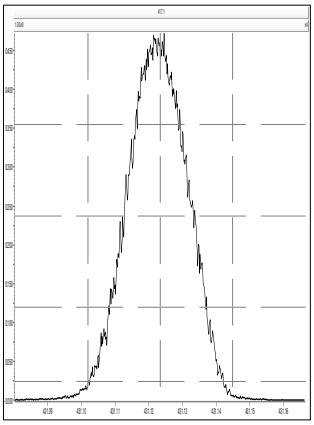
M 404.9760 R 11261



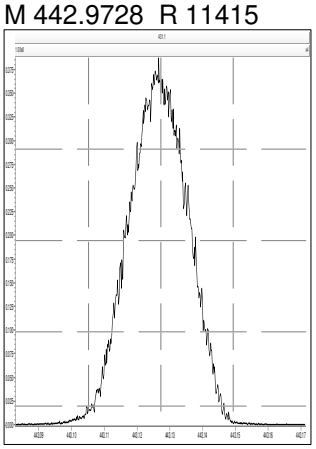
M 416.9760 R 11011



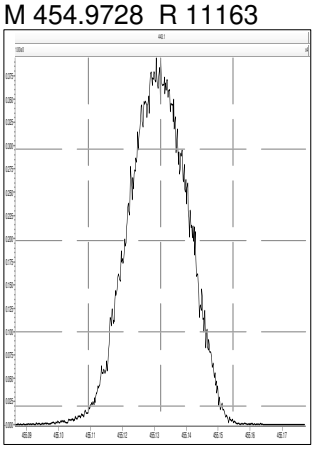
M 430.9728 R 10824



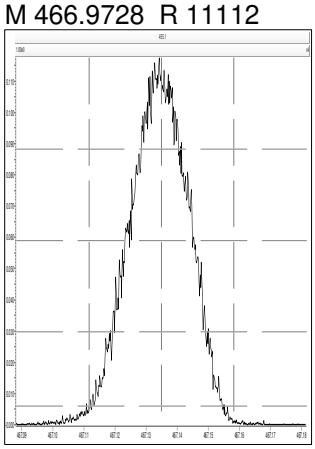
M 442.9728 R 11415



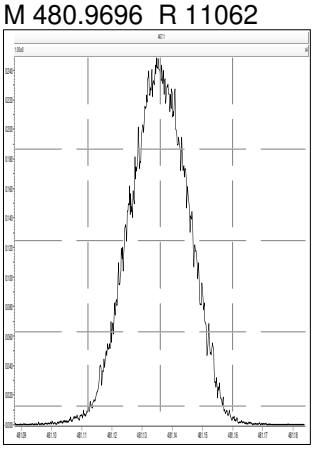
M 454.9728 R 11163



M 466.9728 R 11112



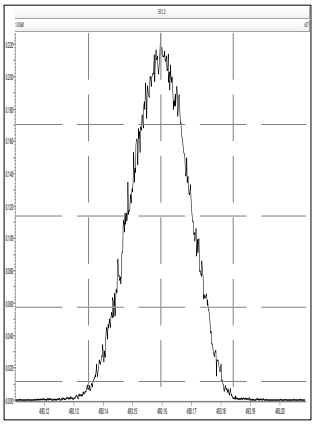
M 480.9696 R 11062



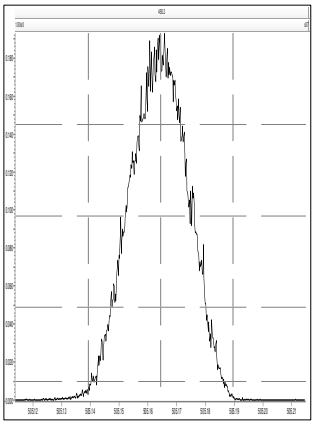
File: Experiment: 1668_octyl_1.exp Reference: Pfk.ref Function: 7 @ 200 (ppm)

Printed: Wednesday, December 02, 2020 09:35:11 Eastern Standard Time

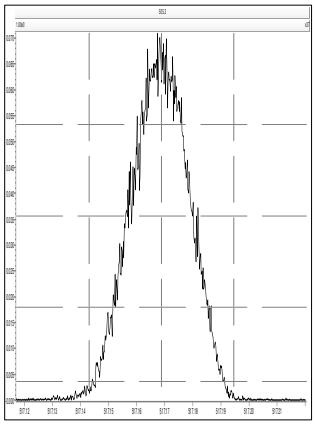
M 492.9696 R 11164



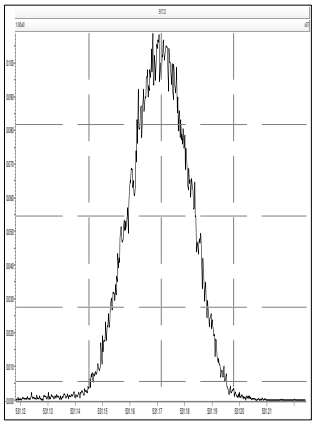
M 504.9696 R 11519



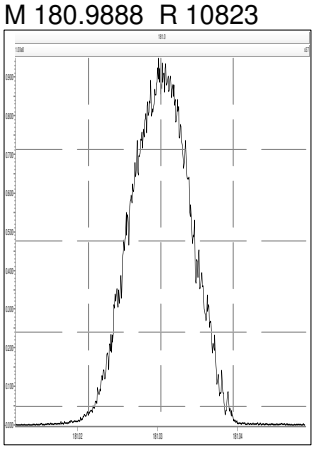
M 516.9697 R 11208



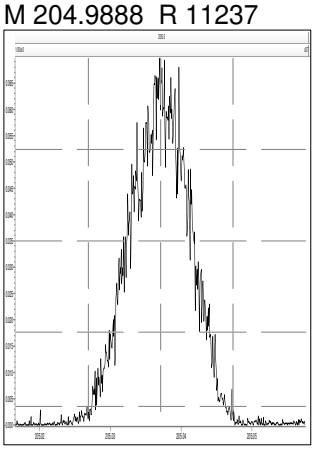
M 530.9664 R 10687



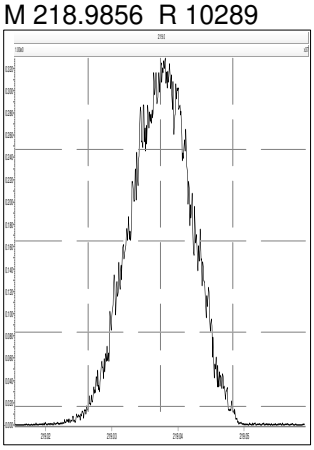
M 180.9888 R 10823



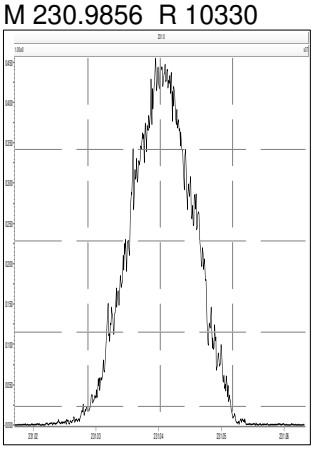
M 204.9888 R 11237



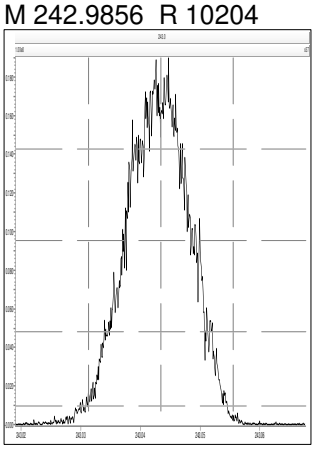
M 218.9856 R 10289



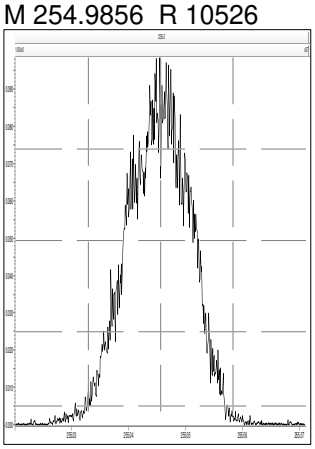
M 230.9856 R 10330



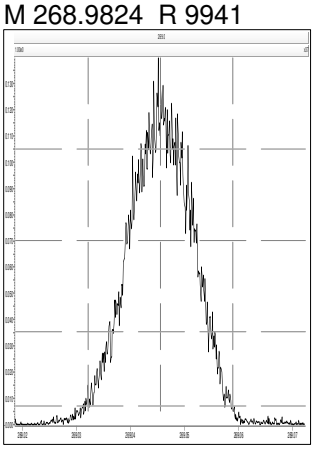
M 242.9856 R 10204



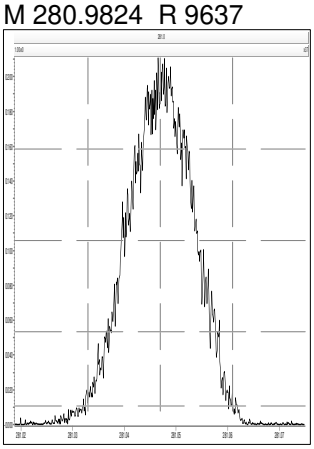
M 254.9856 R 10526



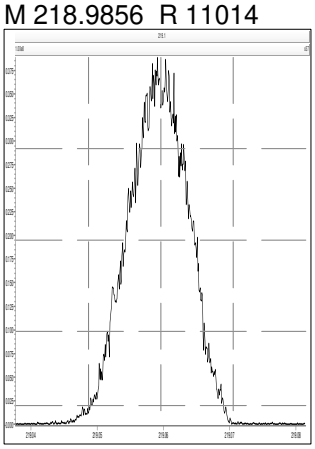
M 268.9824 R 9941



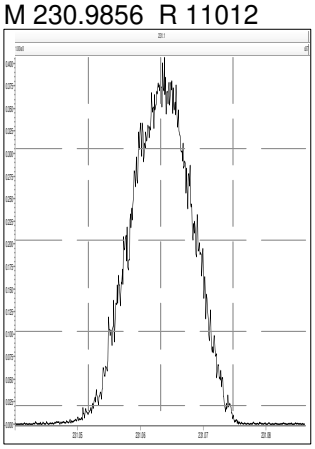
M 280.9824 R 9637



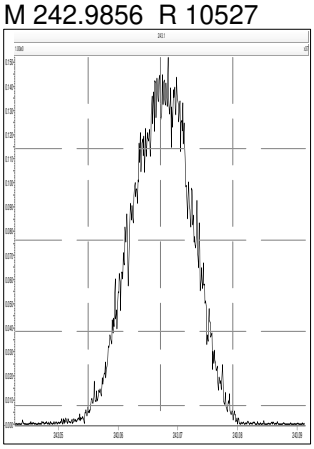
M 218.9856 R 11014



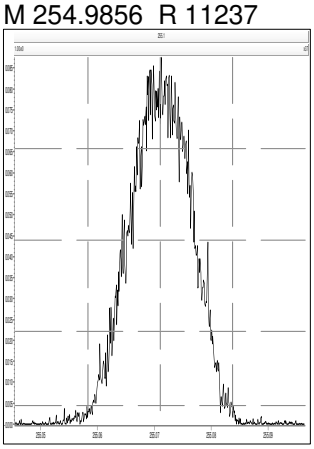
M 230.9856 R 11012



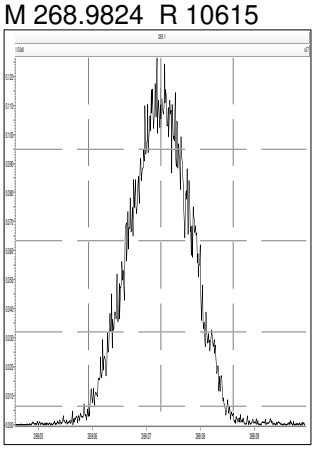
M 242.9856 R 10527



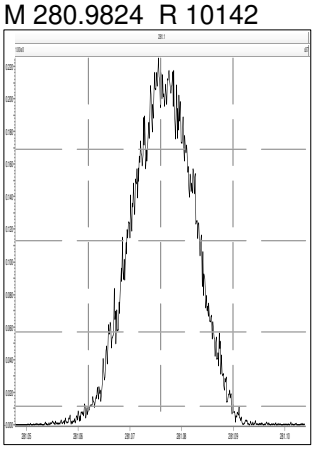
M 254.9856 R 11237



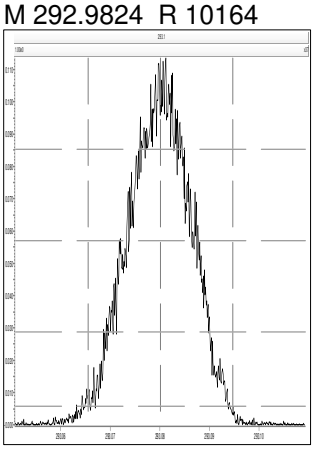
M 268.9824 R 10615



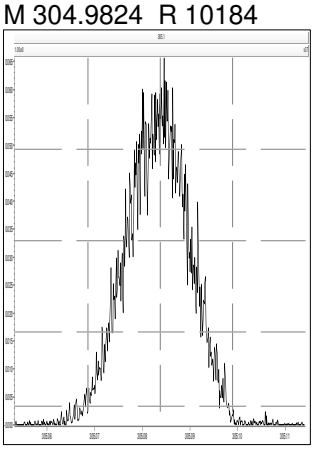
M 280.9824 R 10142



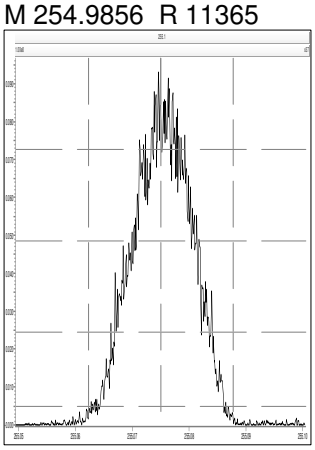
M 292.9824 R 10164



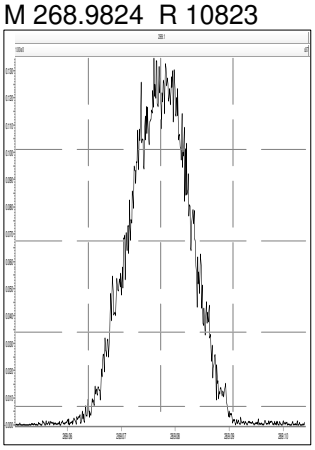
M 304.9824 R 10184



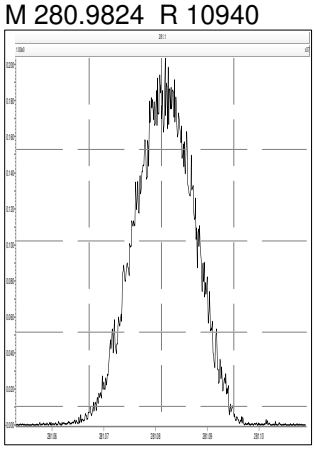
M 254.9856 R 11365



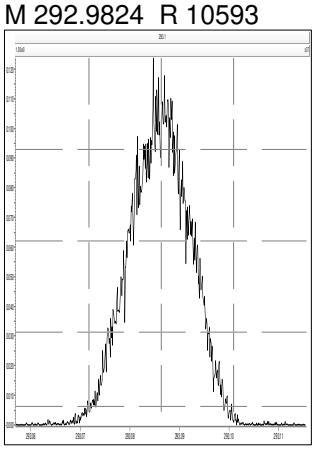
M 268.9824 R 10823



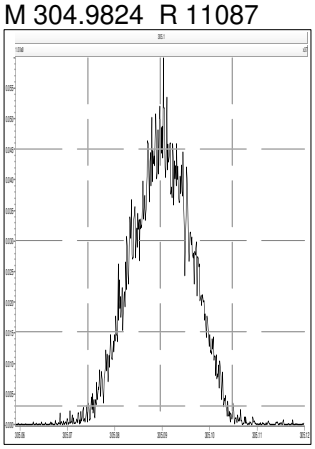
M 280.9824 R 10940



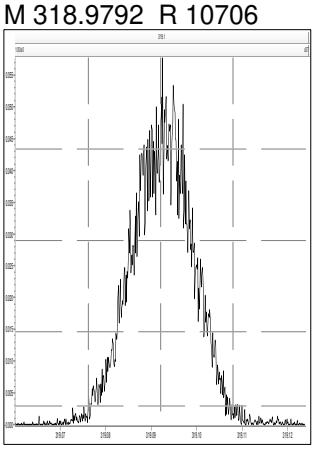
M 292.9824 R 10593



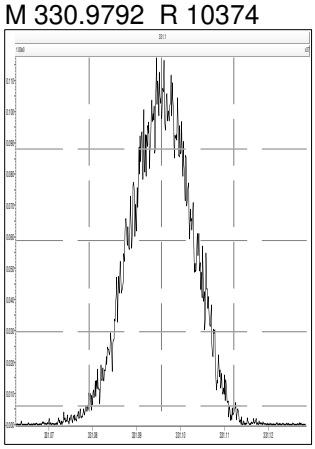
M 304.9824 R 11087



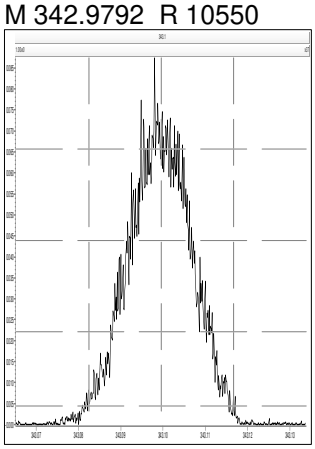
M 318.9792 R 10706



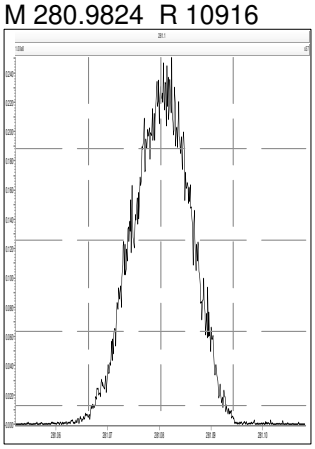
M 330.9792 R 10374



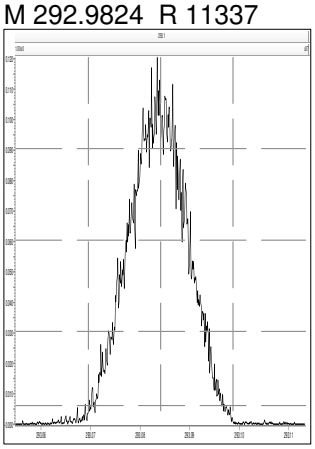
M 342.9792 R 10550



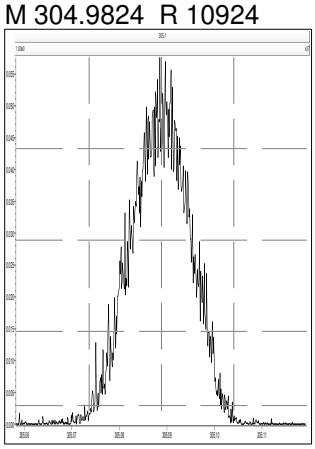
M 280.9824 R 10916



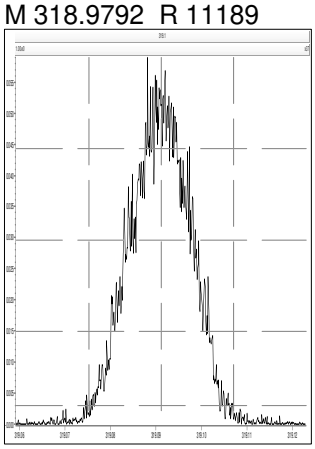
M 292.9824 R 11337



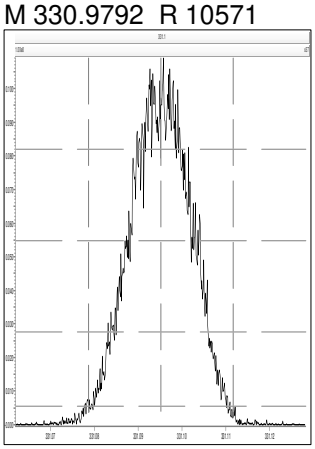
M 304.9824 R 10924



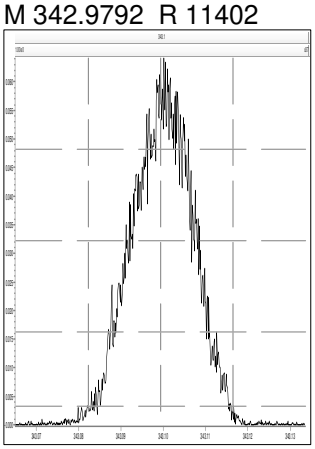
M 318.9792 R 11189



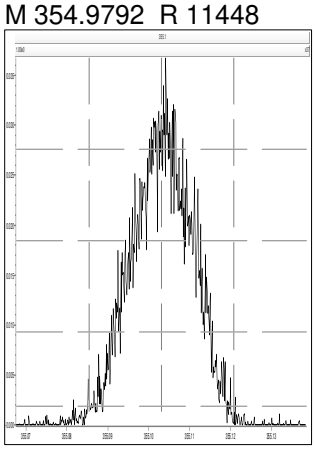
M 330.9792 R 10571



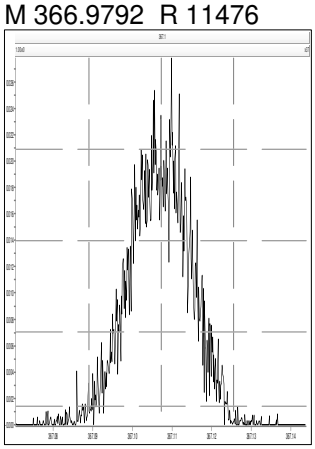
M 342.9792 R 11402



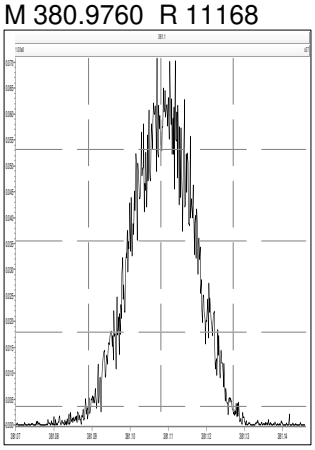
M 354.9792 R 11448



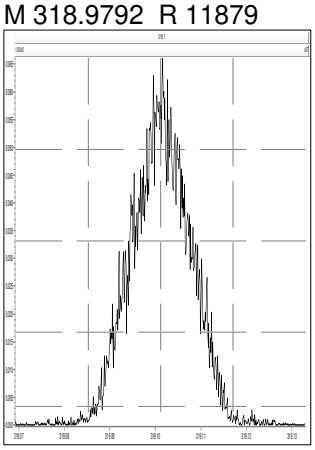
M 366.9792 R 11476



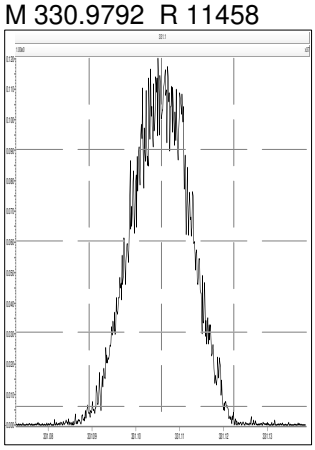
M 380.9760 R 11168



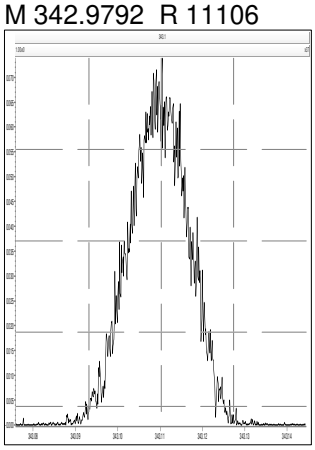
M 318.9792 R 11879



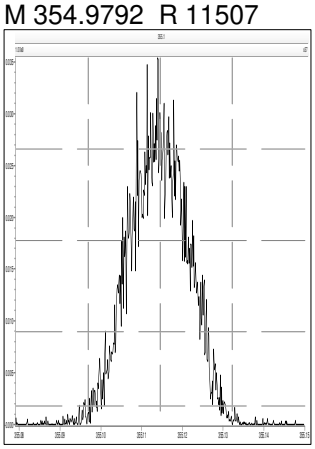
M 330.9792 R 11458



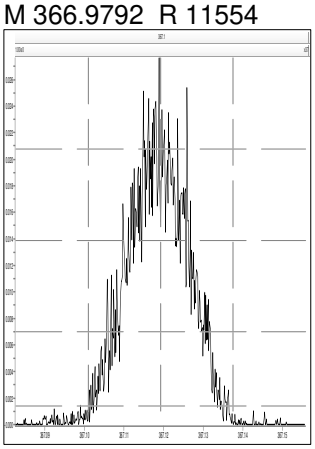
M 342.9792 R 11106



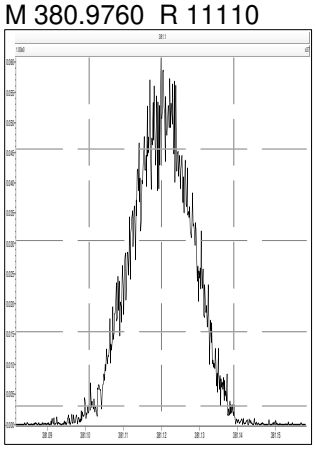
M 354.9792 R 11507



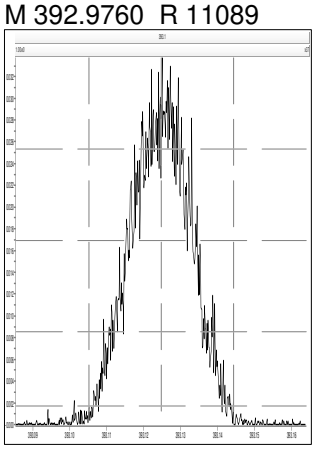
M 366.9792 R 11554



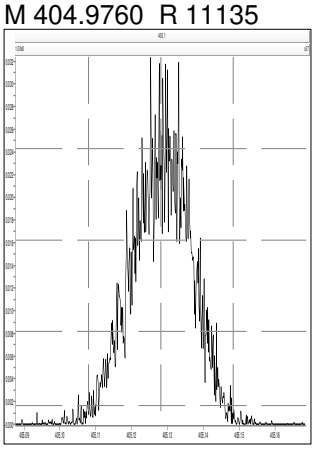
M 380.9760 R 11110



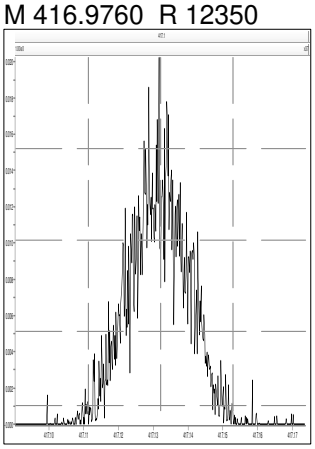
M 392.9760 R 11089



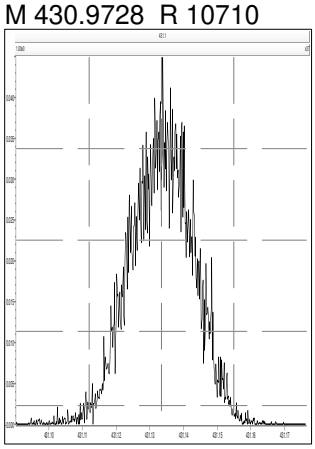
M 404.9760 R 11135



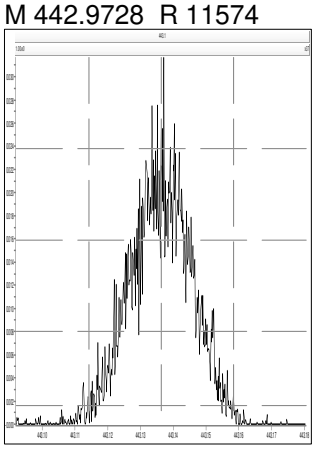
M 416.9760 R 12350



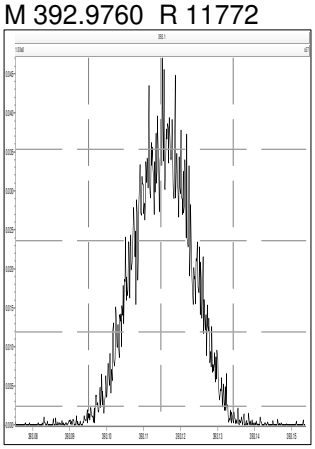
M 430.9728 R 10710



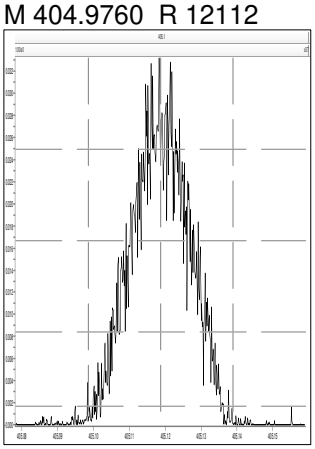
M 442.9728 R 11574



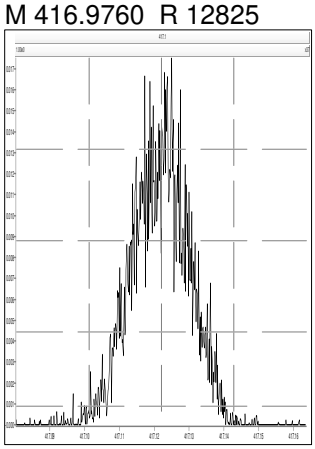
M 392.9760 R 11772



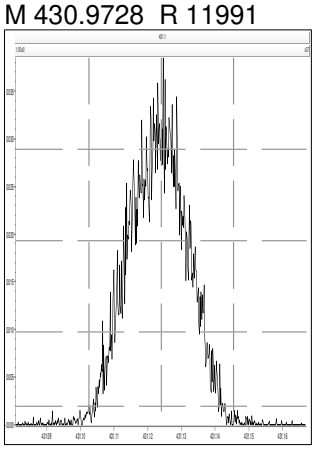
M 404.9760 R 12112



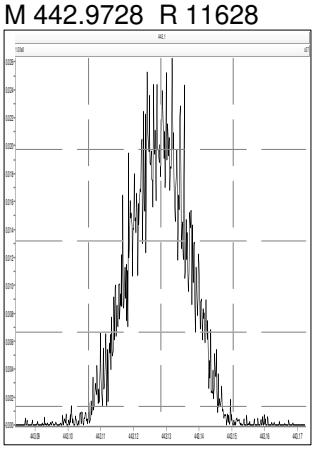
M 416.9760 R 12825



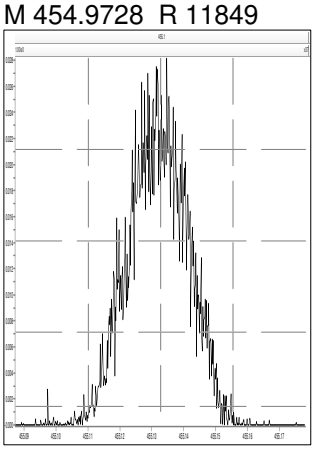
M 430.9728 R 11991



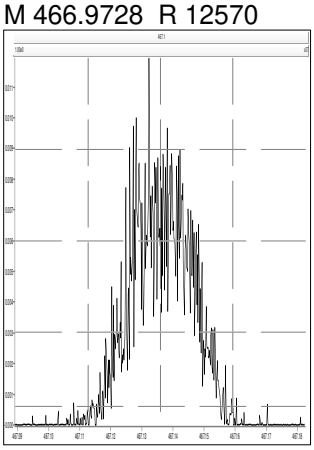
M 442.9728 R 11628



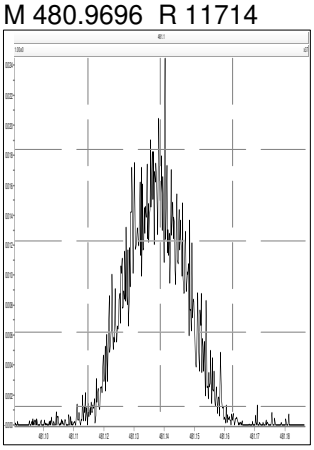
M 454.9728 R 11849



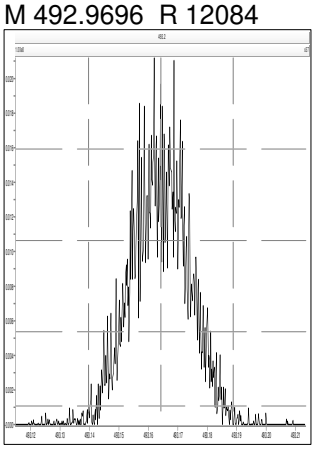
M 466.9728 R 12570



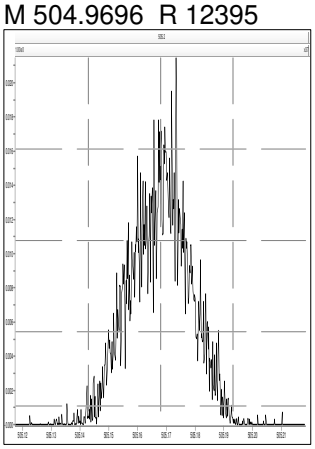
M 480.9696 R 11714



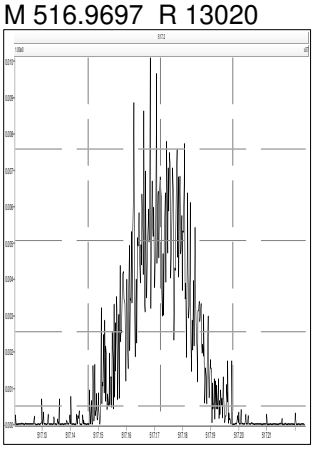
M 492.9696 R 12084



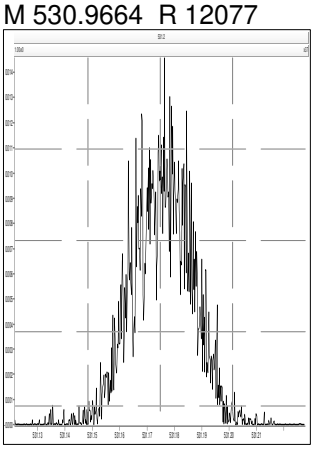
M 504.9696 R 12395



M 516.9697 R 13020



M 530.9664 R 12077



Sample List Report **MassLynx 4.1 SCN815 SCN795**

Sample List: C:\MassLynx\Default.pro\Sampledb\5_211102A_RUN.SPL
Last Modified: Tuesday, November 02, 2021 15:22:43 Eastern Daylight Time
Printed: Tuesday, November 02, 2021 15:22:53 Eastern Daylight Time Page Position (1, 1)

	File Name	Sample ID	File Text	MS File	Inlet File	Bottle	Inject Vol
1	5_211102A01	H5_21_CCV_942	1668A-CS3-020C	1668_octyl_1	1668_octyl_1	Tray1:1	1.000000
2	5_211102A02	H5_21_WDM_943	1668A-CS7-020C	1668_octyl_1	1668_octyl_1	Tray1:2	1.000000
3	5_211102A03	TOL	IB	1668_octyl_1	1668_octyl_1	Tray1:3	1.000000
4	5_211102A04	WG3609127-1	MB	1668_octyl_1	1668_octyl_1	Tray1:4	1.000000
5	5_211102A05	L2633484-23	SAMPLE (No IS spiked, Reinject)	1668_octyl_1	1668_octyl_1	Tray1:5	1.000000
6	5_211102A06	L2632149-1	10XDIL	1668_octyl_1	1668_octyl_1	Tray1:6	1.000000
7	5_211102A07	L2621334-3	5XDIL	1668_octyl_1	1668_octyl_1	Tray1:7	1.000000
8	5_211102A08	L2621334-4	5XDIL	1668_octyl_1	1668_octyl_1	Tray1:8	1.000000
9	5_211102A09	TOL	IB	1668_octyl_1	1668_octyl_1	Tray1:3	1.000000
10	5_211102A10	WG3612503-1	MB	1668_octyl_1	1668_octyl_1	Tray1:10	1.000000
11	5_211102A11	WG3612503-4	RB	1668_octyl_1	1668_octyl_1	Tray1:11	1.000000
12	5_211102A12	L2633484-23	SAMPLE REINJECT	1668_octyl_1	1668_octyl_1	Tray1:5	1.000000
13	5_211102A13	L2630208-1	SAMPLE	1668_octyl_1	1668_octyl_1	Tray1:12	1.000000
14	5_211102A14	L2630208-2	SAMPLE	1668_octyl_1	1668_octyl_1	Tray1:13	1.000000
15	5_211102A15	WG3612503-2	LCS	1668_octyl_1	1668_octyl_1	Tray1:9	1.000000
16	5_211102A16	H5_21_CCV_944	1668A-CS3-020C	1668_octyl_1	1668_octyl_1	Tray1:1	1.000000
17	5_211102A17	H5_21_WDM_945	1668A-CS7-020C	1668_octyl_1	1668_octyl_1	Tray1:2	1.000000
18	5_211102A18	WG3603574-2	LCS	1668_octyl_1	1668_octyl_1	Tray1:14	1.000000
19	5_211102A19	WG3603564-2	LCS	1668_octyl_1	1668_octyl_1	Tray1:17	1.000000
20	5_211102A20	TOL	IB	1668_octyl_1	1668_octyl_1	Tray1:3	1.000000
21	5_211102A21	WG3603574-1	MB	1668_octyl_1	1668_octyl_1	Tray1:15	1.000000
22	5_211102A22	WG3603564-1	MB	1668_octyl_1	1668_octyl_1	Tray1:18	1.000000
23	5_211102A23	L2625428-2	20XDIL	1668_octyl_1	1668_octyl_1	Tray1:16	1.000000
24	5_211102A24	L2625428-1	SAMPLE	1668_octyl_1	1668_octyl_1	Tray1:19	1.000000
25	5_211102A25	H5_21_CCV_946	1668A-CS3-020C	1668_octyl_1	1668_octyl_1	Tray1:1	1.000000
26	---	---	---	---	---	---	0.000000
27	---	Op	NA	---	---	---	0.000000
28	---	Det	360	---	---	---	0.000000
29	---	Column	SPBOCTYL256001_02	---	---	---	0.000000

Vp 3-Nov-21 NA✓

MR✓

CCV✓

Tol✓

window✓

chro✓

A10/ A11 MB Contaminated

A6 RT shift (run on Dil 20X)

A8 lost LM _ reinject

	File Name	Sample ID	File Text	Sample Type	Na Conc A	Na Conc B	Na Conc C	Na Conc D	Na Conc E	Na Conc F	Na Conc G	Na Conc H	FS Conc	CS Conc	ES Conc 1	ES Conc 2	IS Conc	Sample Size
1	5_211102A01	H5_21_CCV_942	1668A-CS3-020C	Analyte	50	50	50	100	---	---	---	---	100	100	100	200	100	1.000
2	5_211102A02	H5_21_WDM_943	1668A-CS7-020C	Standard	25	50	75	100	150	200	250	300	100	100	100	200	100	1.000
3	5_211102A03	TOL	IB	Analyte	---	---	---	---	---	---	---	---	2000	2000	2000	4000	2000	1.000
4	5_211102A04	WG3609127-1	MB	Analyte	---	---	---	---	---	---	---	---	2000	2000	2000	4000	4000	1.000
5	5_211102A06	L2632149-1	10XDIL	Analyte	---	---	---	---	---	---	---	---	2000	2000	2000	4000	4000	1.000
6	5_211102A07	L2621334-3	5XDIL	Analyte	---	---	---	---	---	---	---	---	2000	2000	2000	4000	2000	1.000
7	5_211102A08	L2621334-4	5XDIL	Analyte	---	---	---	---	---	---	---	---	2000	2000	2000	4000	2000	1.000
8	5_211102A09	TOL	IB	Analyte	---	---	---	---	---	---	---	---	2000	2000	2000	4000	2000	1.000
9	5_211102A10	WG3612503-1	MB	Analyte	---	---	---	---	---	---	---	---	2000	6000	6000	12000	6000	1.000
10	5_211102A11	WG3612503-4	RB	Analyte	---	---	---	---	---	---	---	---	2000	6000	6000	12000	6000	1.000
11	5_211102A12	L2633484-23	SAMPLE REINJECT	Analyte	---	---	---	---	---	---	---	---	2000	2000	2000	4000	4000	1.000
12	5_211102A13	L2630208-1	SAMPLE	Analyte	---	---	---	---	---	---	---	---	2000	6000	6000	12000	6000	1.000
13	5_211102A14	L2630208-2	SAMPLE	Analyte	---	---	---	---	---	---	---	---	2000	6000	6000	12000	6000	1.000
14	5_211102A15	WG3612503-2	LCS	Analyte	3000	3000	3000	6000	---	---	---	---	2000	6000	6000	12000	6000	1.000
15	5_211102A16	H5_21_CCV_944	1668A-CS3-020C	Analyte	50	50	50	100	---	---	---	---	100	100	100	200	100	1.000
16	5_211102A17	H5_21_WDM_945	1668A-CS7-020C	Standard	25	50	75	100	150	200	250	300	100	100	100	200	100	1.000
17	5_211102A18	WG3603574-2	LCS	Analyte	2000	2000	2000	4000	---	---	---	---	4000	4000	4000	8000	4000	1.000
18	5_211102A19	WG3603564-2	LCS	Analyte	2000	2000	2000	4000	---	---	---	---	4000	4000	4000	8000	4000	1.000
19	5_211102A20	TOL	IB	Analyte	---	---	---	---	---	---	---	---	4000	4000	4000	8000	4000	1.000
20	5_211102A21	WG3603574-1	MB	Analyte	---	---	---	---	---	---	---	---	4000	4000	4000	8000	4000	1.000
21	5_211102A22	WG3603564-1	MB	Analyte	---	---	---	---	---	---	---	---	4000	4000	4000	8000	4000	1.000
22	5_211102A23	L2625428-2	20XDIL	Analyte	---	---	---	---	---	---	---	---	4000	4000	4000	8000	4000	1.000
23	5_211102A24	L2625428-1	SAMPLE	Analyte	---	---	---	---	---	---	---	---	4000	4000	4000	8000	4000	1.000
24	5_211102A25	H5_21_CCV_946	1668A-CS3-020C	Analyte	50	50	50	100	---	---	---	---	100	100	100	200	100	1.000
25	---	---	---	Standard	25	50	75	100	150	200	250	300	100	100	100	200	100	1.000
26	---	Op	NA	Analyte	---	---	---	---	---	---	---	---	---	---	---	---	---	1.000
27	---	Det	360	Analyte	---	---	---	---	---	---	---	---	---	---	---	---	---	1.000
28	---	Column	SPBOCTYL256001_02	Analyte	---	---	---	---	---	---	---	---	---	---	---	---	---	1.000

Quantify Sample Summary Report **MassLynx V4.2 SCN1012**

Dataset: I:\Organics Instrument\HIGHRES GCMS Completed Results Files\HR-5\5-211102A-QC1.qld

Last Altered: Wednesday, November 03, 2021 07:57:39 Eastern Daylight Time
Printed: Monday, November 08, 2021 16:14:01 Eastern Standard Time

Method: C:\MassLynx\PCB.PRO\MethDB\1668_OCTYL_ICAL.mdb 16 Sep 2021 12:25:18
Calibration: C:\MassLynx\PCB.PRO\CurveDB\5_201202A_ICAL.cdb 02 Dec 2020 16:02:34

Name: 5_211102A16, Date: 02-Nov-2021, Time: 20:25:55, ID: H5_21_CCV_944, Description: 1668A-CS3-020C, Vial: Tray1:1

	Target Analyte	#Hom	Total Area	Ion1 Area	Ion2 Area	Ra	Ra Fail=Y...	RT	RRT	RT LCL	RT UCL	Conc.	%Rec	Mod.Comment	Noise 1	Noise 2
1	PCB-1		3302418	2517718	784700	3.21	NO	8.91	1.00	8.88	8.94	45.44136	90.9		3215	2341
2	PCB-3		3134937	2382592	752345	3.17	NO	10.45	1.00	10.42	10.49	42.38234	84.8		3215	2341
3	PCB-4		1692186	1027710	664476	1.55	NO	10.61	1.00	10.57	10.64	49.07286	98.1		3525	13298
4	PCB-15		3033523	1871372	1162151	1.61	NO	14.30	1.00	14.26	14.33	47.79246	95.6		5414	21917
5	PCB-19		1544968	805234	739734	1.09	NO	12.61	1.00	12.58	12.64	50.38633	100.8		2377	2136
6	PCB-37		2466719	1255967	1210752	1.04	NO	18.25	1.00	18.21	18.28	48.76289	97.5		4863	5029
7	PCB-54		1961369	856099	1105270	0.77	NO	14.46	1.00	14.43	14.50	49.58994	99.2		879	1994
8	PCB-81		2293055	1014094	1278962	0.79	NO	21.83	1.00	21.79	21.86	48.51934	97.0		3086	3178
9	PCB-77		2295320	1012871	1282448	0.79	NO	22.13	1.00	22.10	22.17	47.27720	94.6		3086	3178
10	PCB-104		1998340	1221661	776679	1.57	NO	17.52	1.00	17.49	17.56	52.08906	104.2		1377	3755
11	PCB-123		1749090	1066463	682627	1.56	NO	23.11	1.00	23.08	23.14	48.29317	96.6		3532	4139
12	PCB-118		2032495	1251765	780730	1.60	NO	23.29	1.00	23.26	23.32	50.63953	101.3		3532	4139
13	PCB-114		1950435	1196831	753604	1.59	NO	23.58	1.00	23.55	23.61	47.00516	94.0		3532	4139
14	PCB-105		1942507	1192934	749573	1.59	NO	23.94	1.00	23.91	23.98	47.65249	95.3		3532	4139
15	PCB-126		1904858	1173368	731490	1.60	NO	25.54	1.00	25.50	25.57	48.85905	97.7		3532	4139
16	PCB-155		1997316	1112379	884937	1.26	NO	20.51	1.00	20.48	20.55	51.51621	103.0		1475	1168
17	PCB-167		1823354	1004051	819303	1.23	NO	26.42	1.00	26.39	26.45	50.64508	101.3		2451	1974
18	PCB-156/157		3651441	2017388	1634053	1.23	NO	27.06	1.00	27.03	27.09	101.84065	101.8		2451	1974
19	PCB-169		1826281	1015489	810792	1.25	NO	28.72	1.00	28.68	28.75	51.28082	102.6		2451	1974
20	PCB-188		1601324	813060	788264	1.03	NO	23.51	1.00	23.47	23.54	52.16534	104.3		2710	2280
21	PCB-189		1586411	812575	773836	1.05	NO	29.99	1.00	29.96	30.03	49.44790	98.9		1966	1268
22	PCB-202		1411269	664813	746455	0.89	NO	26.29	1.00	26.25	26.32	51.54961	103.1		743	1152
23	PCB-205		1282815	608538	674277	0.90	NO	31.37	1.00	31.34	31.41	51.14780	102.3		930	997
24	PCB-208		1304358	576264	728094	0.79	NO	29.70	1.00	29.67	29.73	46.89951	93.8		1087	2392
25	PCB-206		889661	391955	497706	0.79	NO	32.45	1.00	32.41	32.48	47.02350	94.0		1087	2392
26	PCB-209		1011823	544599	467224	1.17	NO	33.56	1.00	33.53	33.59	45.15111	90.3		439	560
27	13C-PCB-31		4720742	2436542	2284200	1.07	NO	15.81	0.87	15.78	15.84	104.62995	104.6		62849	37995
28	13C-PCB-95		2191560	1349487	842074	1.60	NO	19.12	1.09	19.08	19.15	102.25909	102.3		4363	5133
29	13C-PCB-153		2881724	1618291	1263433	1.28	NO	24.20	1.18	24.16	24.23	101.15154	101.2		5376	6734
30	13C-PCB-28		5268307	2743590	2524717	1.09	NO	15.99	0.94	15.95	16.02	98.95041	99.0		62849	37995
31	13C-PCB-111		3006180	1843788	1162392	1.59	NO	22.03	1.07	22.00	22.06	103.07221	103.1		4363	5133
32	13C-PCB-178		2074624	1053977	1020647	1.03	NO	25.08	1.01	25.05	25.11	95.95310	96.0		4905	2179
33	13C-PCB-1		6354479	4802464	1552015	3.09	NO	8.91	0.75	8.88	8.94	90.74183	90.7		5095	26085
34	13C-PCB-3		6186419	4681254	1505165	3.11	NO	10.44	0.88	10.40	10.47	99.38156	99.4		5095	26085

Quantify Sample Summary Report **MassLynx V4.2 SCN1012**

Dataset: I:\Organics Instrument\HIGHRES GCMS Completed Results Files\HR-5\5-211102A-QC1.qld

Last Altered: Wednesday, November 03, 2021 07:57:39 Eastern Daylight Time
Printed: Monday, November 08, 2021 16:14:01 Eastern Standard Time

Name: 5_211102A16, Date: 02-Nov-2021, Time: 20:25:55, ID: H5_21_CCV_944, Description: 1668A-CS3-020C, Vial: Tray1:1

	Target Analyte	#Hom	Total Area	Ion1 Area	Ion2 Area	Ra	Ra Fail=Y...	RT	RRT	RT LCL	RT UCL	Conc.	%Rec	Mod.Comment	Noise 1	Noise 2
35	13C-PCB-4		3872086	2367139	1504946	1.57	NO	10.59	0.89	10.56	10.63	88.37103	88.4		12993	4298
36	13C-PCB-15		5785685	3555980	2229705	1.59	NO	14.29	1.21	14.25	14.32	105.79348	105.8		15841	8113
37	13C-PCB-19		2636324	1340259	1296066	1.03	NO	12.60	1.06	12.56	12.63	80.48395	80.5		40534	24218
38	13C-PCB-37		4541734	2343540	2198195	1.07	NO	18.24	1.07	18.21	18.27	103.72664	103.7		62849	37995
39	13C-PCB-54		3703680	1623732	2079948	0.78	NO	14.45	0.85	14.42	14.49	71.90032	71.9		7812	5479
40	13C-PCB-81		3899728	1707132	2192596	0.78	NO	21.82	1.06	21.78	21.85	98.20707	98.2		10902	6856
41	13C-PCB-77		4180074	1851622	2328452	0.80	NO	22.12	1.07	22.09	22.16	103.48320	103.5		10902	6856
42	13C-PCB-104		3327354	2033564	1293790	1.57	NO	17.50	1.03	17.47	17.54	66.79738	66.8		2842	2005
43	13C-PCB-123		3287207	2021868	1265339	1.60	NO	23.10	1.12	23.06	23.13	94.52199	94.5		4956	5844
44	13C-PCB-118		3427621	2104971	1322650	1.59	NO	23.28	1.13	23.24	23.31	93.88851	93.9		4956	5844
45	13C-PCB-114		3374321	2088281	1286040	1.62	NO	23.57	0.95	23.53	23.60	101.38723	101.4		4956	5844
46	13C-PCB-105		3381910	2084824	1297086	1.61	NO	23.93	0.96	23.90	23.96	102.68533	102.7		4956	5844
47	13C-PCB-126		3217275	1985050	1232225	1.61	NO	25.53	1.03	25.49	25.56	107.68264	107.7		4956	5844
48	13C-PCB-155		3665867	2042657	1623210	1.26	NO	20.50	0.99	20.47	20.54	77.47016	77.5		1871	2172
49	13C-PCB-167		3262354	1831159	1431195	1.28	NO	26.41	1.06	26.37	26.44	99.55023	99.6		5376	6734
50	13C-PCB-156/157		6280237	3530014	2750223	1.28	NO	27.05	1.09	27.01	27.08	198.71582	99.4		5376	6734
51	13C-PCB-169		3262577	1846356	1416221	1.30	NO	28.70	1.15	28.67	28.74	109.88640	109.9		5376	6734
52	13C-PCB-188		3253898	1660366	1593533	1.04	NO	23.50	0.94	23.46	23.53	84.59240	84.6		4905	2179
53	13C-PCB-189		3179318	1633608	1545710	1.06	NO	29.98	0.96	29.94	30.01	105.84427	105.8		2705	2209
54	13C-PCB-202		2540526	1198823	1341703	0.89	NO	26.27	1.06	26.24	26.31	85.45764	85.5		1515	1346
55	13C-PCB-205		2739487	1272211	1467276	0.87	NO	31.36	1.01	31.33	31.39	91.64446	91.6		1328	2385
56	13C-PCB-208		2277258	1008646	1268612	0.80	NO	29.69	0.96	29.65	29.72	95.52762	95.5		1458	1720
57	13C-PCB-206		1562835	692710	870125	0.80	NO	32.42	1.04	32.39	32.45	93.58423	93.6		1458	1720
58	13C-PCB-209		2213726	1203406	1010320	1.19	NO	33.54	1.08	33.51	33.58	83.08435	83.1		636	526
59	13C-PCB-9		6512604	3978113	2534492	1.57	NO	11.85	0.48	11.82	11.89	325.44668	325.4		12993	4298
60	13C-PCB-52		3019300	1348988	1670312	0.81	NO	16.98	0.68	16.94	17.01	381.91277	381.9		10890	5514
61	13C-PCB-101		2563607	1567144	996463	1.57	NO	20.64	0.83	20.61	20.68	488.42691	488.4		4363	5133
62	13C-PCB-138		2585486	1450834	1134652	1.28	NO	24.89	0.00	24.85	24.92	517.31806	517.3		5376	6734
63	13C-PCB-194		2007998	947480	1060518	0.89	NO	31.08	1.25	31.05	31.11	600.43607	600.4		1328	2385
64	Total MoCB-F1	4		5073230								187879.50212			3215	
65	Total DiCB-F1	2		1075337								87212.14270			3525	
66	Total DiCB-F2	2		1875291								6782.48846			5414	
67	Total TrCB-F1	2		806060								1426.45794			2377	
68	Total TrCB-F3	6		3926187								4710743.347...			4863	
69	Total TeCB-F2	1		856099								49.58994			879	
70	Total TeCB-F4	8		2055296								52469.82616			3086	
71	Total PeCB-F3	1		1221661								52.08906			1377	

Quantify Sample Summary Report **MassLynx V4.2 SCN1012**

Dataset: I:\Organics Instrument\HIGHRES GCMS Completed Results Files\HR-5\5-211102A-QC1.qld

Last Altered: Wednesday, November 03, 2021 07:57:39 Eastern Daylight Time
Printed: Monday, November 08, 2021 16:14:01 Eastern Standard Time

Name: 5_211102A16, Date: 02-Nov-2021, Time: 20:25:55, ID: H5_21_CCV_944, Description: 1668A-CS3-020C, Vial: Tray1:1

	Target Analyte	#Hom	Total Area	Ion1 Area	Ion2 Area	Ra	Ra Fail=Y...	RT	RRT	RT LCL	RT UCL	Conc.	%Rec	Mod.Comment	Noise 1	Noise 2
72	Total PeCB-F5	13		6008433								171470.46016			3532	
73	Total HxCB-F4	2		1113110								1285.71967			1475	
74	Total HxCB-F5	18		4225867								314002.45624			2451	
75	Total HpCB-F5	12		3229283								5050324.434...			2710	
76	Total HpCB-F6	4		880108								115425.30388			1966	
77	Total OcCB-F5	6		673346								16533.34869			743	
78	Total OcCB-F6	4		661403								119661.30671			930	
79	Total NoCB-F6	4		971260								5488.00364			1087	
80	Total DeCB-F7	1		544599								45.15111			439	
81	Total 13C-MoCB-F1	2		9483718								190.12339			5095	
82	Total 13C-DiCB-F1	3		6354589								415.33167			12993	
83	Total 13C-DiCB-F2	3		6907230								6521604.208...			15841	
84	Total 13C-TrCB-F1	1		1340259								80.48395			40534	
85	Total 13C-TrCB-F3	5		7548240								31451.38509			62849	
86	Total 13C-TeCB-F2	1		1623732								71.90032			7812	
87	Total 13C-TeCB-F3	4		1385422								391.99634			10890	
88	Total 13C-TeCB-F4	8		3631734								93824.06131			10902	
89	Total 13C-PeCB-F3	2		2034184								848.09194			2842	
90	Total 13C-PeCB-F4	12		4783399								715.52847			4363	
91	Total 13C-PeCB-F5	15		10521991								294671.85914			4956	
92	Total 13C-HxCB-F4	5		2055000								11605.92662			1871	
93	Total 13C-HxCB-F5	14		10385867								1209.11078			5376	
94	Total 13C-HpCB-F5	10		2759894								79787.60364			4905	
95	Total 13C-HpCB-F6	5		1809089								255017.62518			2705	
96	Total 13C-OcCB-F5	7		1206869								15300.09186			1515	
97	Total 13C-OcCB-F6	6		2281754								768.59970			1328	
98	Total 13C-NoCB-F6	5		1704480								7030.31411			1458	
99	Total 13C-DeCB-F7	1		1203406								83.08435			636	
100	Lockmass F1			0											17839...	
101	Lockmass F2			0											760575	
102	Lockmass F3			0											1198830	
103	Lockmass F4			0											640942	
104	Lockmass F5			0											238371	
105	Lockmass F6			0											246917	
106	Lockmass F7			0											52027	

Quantify Sample Summary Report **MassLynx V4.2 SCN1012**

Dataset: I:\Organics Instrument\HIGHRES GCMS Completed Results Files\HR-5\5-211102A-QC1.qld

Last Altered: Wednesday, November 03, 2021 07:57:39 Eastern Daylight Time
Printed: Monday, November 08, 2021 16:14:01 Eastern Standard Time

Name: 5_211102A25, Date: 03-Nov-2021, Time: 02:55:26, ID: H5_21_CCV_946, Description: 1668A-CS3-020C, Vial: Tray1:1

	Target Analyte	#Hom	Total Area	Ion1 Area	Ion2 Area	Ra	Ra Fail=Y...	RT	RRT	RT LCL	RT UCL	Conc.	%Rec	Mod.Comment	Noise 1	Noise 2
1	PCB-1		3255994	2485196	770798	3.22	NO	8.91	1.00	8.88	8.94	45.30515	90.6		3291	2273
2	PCB-3		3057547	2324851	732697	3.17	NO	10.44	1.00	10.40	10.47	42.80497	85.6		3291	2273
3	PCB-4		1697548	1022187	675361	1.51	NO	10.59	1.00	10.56	10.63	49.64525	99.3		2428	9456
4	PCB-15		3000811	1823207	1177604	1.55	NO	14.29	1.00	14.25	14.32	48.90505	97.8		4872	20456
5	PCB-19		1509480	787412	722068	1.09	NO	12.60	1.00	12.56	12.63	49.47838	99.0		2233	2696
6	PCB-37		2436268	1236349	1199920	1.03	NO	18.24	1.00	18.21	18.27	48.64163	97.3		4306	5297
7	PCB-54		1920187	847526	1072661	0.79	NO	14.44	1.00	14.41	14.48	49.61130	99.2		1827	2086
8	PCB-81		2278987	1006880	1272107	0.79	NO	21.81	1.00	21.77	21.84	48.29081	96.6		2153	2199
9	PCB-77		2252355	992928	1259428	0.79	NO	22.12	1.00	22.09	22.16	48.02164	96.0		2153	2199
10	PCB-104		1996618	1217725	778893	1.56	NO	17.50	1.00	17.47	17.54	52.65294	105.3		1372	3060
11	PCB-123		1736737	1060450	676288	1.57	NO	23.10	1.00	23.06	23.13	48.63268	97.3		4357	3683
12	PCB-118		2024259	1237918	786341	1.57	NO	23.27	1.00	23.23	23.30	50.37964	100.8		4357	3683
13	PCB-114		1962289	1200172	762118	1.57	NO	23.57	1.00	23.53	23.60	48.02261	96.0		4357	3683
14	PCB-105		1952621	1189617	763005	1.56	NO	23.92	1.00	23.89	23.95	48.07987	96.2		4357	3683
15	PCB-126		2001406	1229042	772364	1.59	NO	25.51	1.00	25.48	25.55	49.05438	98.1		4357	3683
16	PCB-155		1994036	1112656	881380	1.26	NO	20.50	1.00	20.47	20.54	50.97946	102.0		940	1102
17	PCB-167		1852232	1019371	832861	1.22	NO	26.41	1.00	26.37	26.44	50.55185	101.1		2602	3804
18	PCB-156/157		3750270	2064863	1685406	1.23	NO	27.04	1.00	27.00	27.07	102.03388	102.0		2602	3804
19	PCB-169		1879835	1035831	844004	1.23	NO	28.70	1.00	28.67	28.74	50.45254	100.9		2602	3804
20	PCB-188		1604625	823331	781294	1.05	NO	23.50	1.00	23.46	23.53	52.79157	105.6		1749	1665
21	PCB-189		1586460	808474	777985	1.04	NO	29.98	1.00	29.94	30.01	49.75749	99.5		1998	1182
22	PCB-202		1428378	676268	752110	0.90	NO	26.27	1.00	26.24	26.31	51.36052	102.7		736	820
23	PCB-205		1282485	613036	669449	0.92	NO	31.36	1.00	31.33	31.39	50.36487	100.7		839	1077
24	PCB-208		1328607	589247	739360	0.80	NO	29.69	1.00	29.65	29.72	47.24845	94.5		1618	2878
25	PCB-206		901263	394713	506550	0.78	NO	32.42	1.00	32.39	32.45	48.11938	96.2		1618	2878
26	PCB-209		990160	536677	453483	1.18	NO	33.55	1.00	33.51	33.58	45.47952	91.0		388	335
27	13C-PCB-31		4647258	2409778	2237480	1.08	NO	15.80	0.87	15.77	15.83	103.84283	103.8		55132	21680
28	13C-PCB-95		2182353	1344448	837905	1.60	NO	19.11	1.09	19.07	19.14	102.84258	102.8		4781	4051
29	13C-PCB-153		2906305	1628333	1277972	1.27	NO	24.18	1.18	24.15	24.22	99.62311	99.6		4279	5064
30	13C-PCB-28		5210409	2665451	2544958	1.05	NO	15.97	0.94	15.93	16.00	99.67361	99.7		55132	21680
31	13C-PCB-111		3017033	1856084	1160949	1.60	NO	22.02	1.07	21.99	22.05	102.89251	102.9		4781	4051
32	13C-PCB-178		2104160	1070499	1033661	1.04	NO	25.07	1.01	25.03	25.10	95.31771	95.3		2552	3117
33	13C-PCB-1		6283987	4738363	1545624	3.07	NO	8.90	0.75	8.86	8.93	90.15878	90.2		2976	21724
34	13C-PCB-3		5974126	4517446	1456680	3.10	NO	10.42	0.88	10.39	10.46	96.42421	96.4		2976	21724
35	13C-PCB-4		3839571	2341707	1497864	1.56	NO	10.58	0.89	10.55	10.61	88.04259	88.0		23998	4519
36	13C-PCB-15		5593091	3401778	2191312	1.55	NO	14.27	1.21	14.24	14.30	102.75457	102.8		20643	9497
37	13C-PCB-19		2623035	1349697	1273337	1.06	NO	12.58	1.06	12.55	12.62	80.45622	80.5		33316	19816

Quantify Sample Summary Report **MassLynx V4.2 SCN1012**

Dataset: I:\Organics Instrument\HIGHRES GCMS Completed Results Files\HR-5\5-211102A-QC1.qld

Last Altered: Wednesday, November 03, 2021 07:57:39 Eastern Daylight Time
Printed: Monday, November 08, 2021 16:14:01 Eastern Standard Time

Name: 5_211102A25, Date: 03-Nov-2021, Time: 02:55:26, ID: H5_21_CCV_946, Description: 1668A-CS3-020C, Vial: Tray1:1

	Target Analyte	#Hom	Total Area	Ion1 Area	Ion2 Area	Ra	Ra Fail=Y...	RT	RRT	RT LCL	RT UCL	Conc.	%Rec	Mod.Comment	Noise 1	Noise 2
38	13C-PCB-37		4496852	2327313	2169538	1.07	NO	18.23	1.07	18.20	18.26	104.60176	104.6		55132	21680
39	13C-PCB-54		3624354	1577602	2046752	0.77	NO	14.43	0.85	14.40	14.47	71.66215	71.7		7576	3846
40	13C-PCB-81		3894144	1716088	2178056	0.79	NO	21.80	1.06	21.77	21.83	97.54331	97.5		7109	5469
41	13C-PCB-77		4038243	1759930	2278314	0.77	NO	22.10	1.07	22.07	22.14	99.43869	99.4		7109	5469
42	13C-PCB-104		3288884	2004212	1284672	1.56	NO	17.49	1.03	17.46	17.53	65.67287	65.7		2060	3407
43	13C-PCB-123		3241206	1976564	1264642	1.56	NO	23.08	1.12	23.05	23.12	92.70207	92.7		6715	8458
44	13C-PCB-118		3431342	2103834	1327508	1.58	NO	23.25	1.13	23.22	23.29	93.48903	93.5		6715	8458
45	13C-PCB-114		3322904	2040180	1282724	1.59	NO	23.56	0.95	23.52	23.59	99.30970	99.3		6715	8458
46	13C-PCB-105		3369302	2049014	1320287	1.55	NO	23.91	0.96	23.87	23.94	101.75674	101.8		6715	8458
47	13C-PCB-126		3366883	2065736	1301147	1.59	NO	25.50	1.03	25.47	25.54	112.08888	112.1		6715	8458
48	13C-PCB-155		3698379	2064789	1633591	1.26	NO	20.49	0.99	20.45	20.52	77.74031	77.7		2614	2098
49	13C-PCB-167		3320135	1847564	1472571	1.25	NO	26.40	1.06	26.36	26.43	99.22980	99.2		4279	5064
50	13C-PCB-156/157		6438001	3612652	2825349	1.28	NO	27.04	1.09	27.00	27.07	199.51827	99.8		4279	5064
51	13C-PCB-169		3413382	1911465	1501916	1.27	NO	28.69	1.15	28.66	28.73	112.60125	112.6		4279	5064
52	13C-PCB-188		3221928	1646200	1575728	1.04	NO	23.48	0.94	23.45	23.52	82.03865	82.0		2552	3117
53	13C-PCB-189		3159633	1622243	1537391	1.06	NO	29.96	0.96	29.93	30.00	103.02563	103.0		4022	2329
54	13C-PCB-202		2580793	1222773	1358019	0.90	NO	26.26	1.06	26.23	26.30	85.02677	85.0		4173	1798
55	13C-PCB-205		2781357	1312163	1469194	0.89	NO	31.35	1.01	31.31	31.38	94.49838	94.5		3027	2057
56	13C-PCB-208		2302463	1020703	1281760	0.80	NO	29.67	0.96	29.64	29.70	98.09348	98.1		1925	1334
57	13C-PCB-206		1547159	683341	863818	0.79	NO	32.41	1.04	32.37	32.44	94.09252	94.1		1925	1334
58	13C-PCB-209		2150686	1172261	978425	1.20	NO	33.52	1.08	33.48	33.55	81.97909	82.0		581	539
59	13C-PCB-9		6482007	3966657	2515351	1.58	NO	11.84	0.48	11.81	11.87	323.91769	323.9		23998	4519
60	13C-PCB-52		2964452	1323417	1641036	0.81	NO	16.97	0.68	16.93	17.00	374.97502	375.0		7721	4954
61	13C-PCB-101		2577356	1583797	993558	1.59	NO	20.63	0.83	20.60	20.67	491.04645	491.0		4781	4051
62	13C-PCB-138		2639775	1484229	1155546	1.28	NO	24.87	0.00	24.84	24.91	528.18055	528.2		4279	5064
63	13C-PCB-194		1977118	928693	1048425	0.89	NO	31.07	1.25	31.03	31.10	591.20221	591.2		3027	2057
64	Total MoCB-F1	4		4979502								188718.01788			3291	
65	Total DiCB-F1	2		1064201								79527.98031			2428	
66	Total DiCB-F2	1		1823207								48.90505			4872	
67	Total TrCB-F1	1		787412								49.47838			2233	
68	Total TrCB-F3	6		3850092								4596902.752...			4306	
69	Total TeCB-F2	2		848011								787.85825			1827	
70	Total TeCB-F4	9		2026024								49249.47721			2153	
71	Total PeCB-F3	1		1217725								52.65294			1372	
72	Total PeCB-F5	15		6052265								183358.25377			4357	
73	Total HxCB-F4	3		1113494								1939.98753			940	
74	Total HxCB-F5	22		4323155								335198.42054			2602	

Quantify Sample Summary Report **MassLynx V4.2 SCN1012**

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Last Altered: Wednesday, November 03, 2021 07:57:39 Eastern Daylight Time
Printed: Monday, November 08, 2021 16:14:01 Eastern Standard Time

Name: 5_211102A25, Date: 03-Nov-2021, Time: 02:55:26, ID: H5_21_CCV_946, Description: 1668A-CS3-020C, Vial: Tray1:1

	Target Analyte	#Hom	Total Area	Ion1 Area	Ion2 Area	Ra	Ra Fail=Y...	RT	RRT	RT LCL	RT UCL	Conc.	%Rec	Mod.Comment	Noise 1	Noise 2
75	Total HpCB-F5	12		3367836								5319118.099...			1749	
76	Total HpCB-F6	4		882772								126780.58641			1998	
77	Total OcCB-F5	6		683185								13939.70922			736	
78	Total OcCB-F6	4		666224								122268.39063			839	
79	Total NoCB-F6	3		985540								2906.30152			1618	
80	Total DeCB-F7	1		536677								45.47952			388	
81	Total 13C-MoCB-F1	3		9267764								17384.03596			2976	
82	Total 13C-DiCB-F1	3		6316046								413.29528			23998	
83	Total 13C-DiCB-F2	2		6693814								6397732.432...			20643	
84	Total 13C-TrCB-F1	2		1432928								187038.66906			33316	
85	Total 13C-TrCB-F3	8		7491422								91239.65859			55132	
86	Total 13C-TeCB-F2	1		1577602								71.66215			7576	
87	Total 13C-TeCB-F3	4		1357497								384.81475			7721	
88	Total 13C-TeCB-F4	8		3560683								118186.81931			7109	
89	Total 13C-PeCB-F3	2		2004985								679.12159			2060	
90	Total 13C-PeCB-F4	9		4804302								713.85493			4781	
91	Total 13C-PeCB-F5	14		10486580								315756.00581			6715	
92	Total 13C-HxCB-F4	3		2075216								10097.89233			2614	
93	Total 13C-HxCB-F5	19		10591056								1229.49088			4279	
94	Total 13C-HpCB-F5	10		2762352								77063.52016			2552	
95	Total 13C-HpCB-F6	7		1813845								288007.94900			4022	
96	Total 13C-OcCB-F5	11		1255253								44923.77777			4173	
97	Total 13C-OcCB-F6	4		2303891								764.77364			3027	
98	Total 13C-NoCB-F6	3		1705688								3602.45205			1925	
99	Total 13C-DeCB-F7	1		1172261								81.97909			581	
100	Lockmass F1			0											1126655	
101	Lockmass F2			0											455451	
102	Lockmass F3			0											10980...	
103	Lockmass F4			0											646521	
104	Lockmass F5			0											211611	
105	Lockmass F6			0											198068	
106	Lockmass F7			0											41743	

Quantify Sample Summary Report **MassLynx V4.2 SCN1012**

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Last Altered: Wednesday, November 03, 2021 07:57:39 Eastern Daylight Time
Printed: Monday, November 08, 2021 16:14:01 Eastern Standard Time

Name: 5_211102A18, Date: 02-Nov-2021, Time: 22:00:07, ID: WG3603574-2, Description: LCS, Vial: Tray1:14

	Target Analyte	#Hom	Total Area	Ion1 Area	Ion2 Area	Ra	Ra Fail=Y...	RT	RRT	RT LCL	RT UCL	Conc.	%Rec	Mod.Comment	Noise 1	Noise 2
1	PCB-1		1146318	871787	274531	3.18	NO	8.94	1.00	8.91	8.97	1923.39991	96.2		2236	2366
2	PCB-3		1450737	1103960	346777	3.18	NO	10.45	1.00	10.42	10.49	1850.96377	92.5		2236	2366
3	PCB-4		771324	463212	308112	1.50	NO	10.62	1.00	10.59	10.65	2170.95923	108.5		3268	13362
4	PCB-15		1694442	1039456	654986	1.59	NO	14.30	1.00	14.26	14.33	1983.63634	99.2		5031	22527
5	PCB-19		657076	343155	313921	1.09	NO	12.61	1.00	12.58	12.64	2130.73778	106.5		2350	2475
6	PCB-37		1612053	819242	792811	1.03	NO	18.25	1.00	18.21	18.28	1999.60960	100.0		3579	3965
7	PCB-54		802014	352266	449748	0.78	NO	14.47	1.00	14.44	14.51	2081.91214	104.1		1983	1734
8	PCB-81		1418193	626092	792101	0.79	NO	21.83	1.00	21.79	21.86	1881.99620	94.1		2449	2598
9	PCB-77		1434714	635275	799439	0.79	NO	22.13	1.00	22.10	22.17	1879.42888	94.0		2449	2598
10	PCB-104		1021819	621820	399999	1.55	NO	17.52	1.00	17.49	17.56	1922.56503	96.1		1746	2457
11	PCB-123		1151324	701577	449747	1.56	NO	23.11	1.00	23.08	23.14	1919.74440	96.0		3969	15912
12	PCB-118		1280941	783265	497676	1.57	NO	23.28	1.00	23.24	23.31	1963.16148	98.2		3969	15912
13	PCB-114		1308035	797534	510501	1.56	NO	23.58	1.00	23.55	23.61	1932.30018	96.6		3969	15912
14	PCB-105		1186112	722667	463445	1.56	NO	23.93	1.00	23.90	23.96	1851.09057	92.6		3969	15912
15	PCB-126		1167486	718649	448838	1.60	NO	25.53	1.00	25.49	25.56	1808.94012	90.4		3969	15912
16	PCB-155		1186700	659374	527327	1.25	NO	20.51	1.00	20.48	20.55	2056.13255	102.8		1095	1158
17	PCB-167		1166446	643060	523386	1.23	NO	26.42	1.00	26.39	26.45	1971.33356	98.6		1889	1441
18	PCB-156/157		2182699	1200965	981734	1.22	NO	27.05	1.00	27.01	27.08	3896.89070	97.4		1889	1441
19	PCB-169		1213526	693424	520102	1.33	NO	28.72	1.00	28.68	28.75	2001.06247	100.1		1889	1441
20	PCB-188		1006044	510105	495939	1.03	NO	23.52	1.00	23.49	23.55	2126.16766	106.3		1268	1307
21	PCB-189		983425	500466	482959	1.04	NO	29.98	1.00	29.94	30.01	1978.21763	98.9		830	1236
22	PCB-202		930394	445465	484929	0.92	NO	26.29	1.00	26.25	26.32	2136.52295	106.8		1253	918
23	PCB-205		663576	316294	347282	0.91	NO	31.37	1.00	31.34	31.41	1994.23285	99.7		777	1023
24	PCB-208		747489	327878	419611	0.78	NO	29.70	1.00	29.67	29.73	1801.03008	90.1		860	2020
25	PCB-206		445071	195726	249345	0.79	NO	32.43	1.00	32.40	32.47	1735.80837	86.8		860	2020
26	PCB-209		510382	276137	234245	1.18	NO	33.56	1.00	33.53	33.59	1984.48944	99.2		399	405
27	13C-PCB-31						YES								49487	27148
28	13C-PCB-95						YES								3219	3600
29	13C-PCB-153		5343	2980	2363	1.26	NO	24.20	1.18	24.16	24.23	11.74970	0.3		3272	3602
30	13C-PCB-28		1550785	795323	755462	1.05	NO	15.99	0.94	15.95	16.02	1041.49665	26.0		49487	27148
31	13C-PCB-111		1064545	655889	408657	1.61	NO	22.03	1.07	22.00	22.06	1297.50905	32.4		3219	3600
32	13C-PCB-178		816793	415080	401714	1.03	NO	25.08	1.01	25.05	25.11	1373.57686	34.3		2174	1541
33	13C-PCB-1		2084466	1543144	541322	2.85	NO	8.92	0.75	8.89	8.96	1023.87514	25.6		3656	34737
34	13C-PCB-3		2622080	1972486	649594	3.04	NO	10.44	0.88	10.40	10.47	1448.89593	36.2		3656	34737
35	13C-PCB-4		1595819	972562	623257	1.56	NO	10.61	0.89	10.57	10.64	1252.77580	31.3		12780	4780
36	13C-PCB-15		3114524	1894196	1220327	1.55	NO	14.29	1.20	14.25	14.32	1958.93685	49.0		30831	7649
37	13C-PCB-19		1060566	543292	517275	1.05	NO	12.60	1.06	12.56	12.63	1113.71225	27.8		62011	21059

Quantify Sample Summary Report **MassLynx V4.2 SCN1012**

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Printed: Monday, November 08, 2021 16:14:01 Eastern Standard Time

Name: 5_211102A18, Date: 02-Nov-2021, Time: 22:00:07, ID: WG3603574-2, Description: LCS, Vial: Tray1:14

	Target Analyte	#Hom	Total Area	Ion1 Area	Ion2 Area	Ra	Ra Fail=Y...	RT	RRT	RT LCL	RT UCL	Conc.	%Rec	Mod.Comment	Noise 1	Noise 2
38	13C-PCB-37		2895247	1483972	1411275	1.05	NO	18.24	1.07	18.21	18.27	2364.36252	59.1		49487	27148
39	13C-PCB-54		1442937	635721	807217	0.79	NO	14.46	0.85	14.43	14.50	1001.62388	25.0		8077	3580
40	13C-PCB-81		2487203	1098360	1388844	0.79	NO	21.81	1.06	21.77	21.84	2226.58492	55.7		10504	6576
41	13C-PCB-77		2629008	1153579	1475429	0.78	NO	22.12	1.07	22.09	22.16	2313.64846	57.8		10504	6576
42	13C-PCB-104		1843865	1129646	714219	1.58	NO	17.51	1.03	17.48	17.55	1315.85832	32.9		1943	2213
43	13C-PCB-123		2177283	1337787	839496	1.59	NO	23.10	1.12	23.06	23.13	2225.56497	55.6		5816	4593
44	13C-PCB-118		2228877	1376250	852627	1.61	NO	23.27	1.13	23.23	23.30	2170.32787	54.3		5816	4593
45	13C-PCB-114		2201939	1353090	848850	1.59	NO	23.57	0.95	23.53	23.60	2351.91583	58.8		5816	4593
46	13C-PCB-105		2126391	1313792	812599	1.62	NO	23.92	0.96	23.89	23.95	2295.13910	57.4		5816	4593
47	13C-PCB-126		2130386	1312309	818077	1.60	NO	25.51	1.03	25.48	25.55	2534.75066	63.4		5816	4593
48	13C-PCB-155		2182849	1212340	970508	1.25	NO	20.50	0.99	20.47	20.54	1639.83815	41.0		2116	2209
49	13C-PCB-167		2144678	1204942	939736	1.28	NO	26.41	1.06	26.37	26.44	2379.54727	59.5		3272	3602
50	13C-PCB-156/157		3924357	2197282	1727075	1.27	NO	27.04	1.09	27.00	27.07	4514.87906	56.4		3272	3602
51	13C-PCB-169		2222268	1294634	927634	1.40	NO	28.70	1.15	28.67	28.74	2721.45203	68.0		3272	3602
52	13C-PCB-188		2006255	1021984	984272	1.04	NO	23.50	0.94	23.46	23.53	1896.42091	47.4		2174	1541
53	13C-PCB-189		1970577	1010274	960303	1.05	NO	29.96	0.96	29.93	30.00	2385.32694	59.6		2617	2333
54	13C-PCB-202		1616436	762664	853772	0.89	NO	26.27	1.06	26.24	26.31	1977.00200	49.4		1617	1273
55	13C-PCB-205		1453807	684731	769076	0.89	NO	31.36	1.01	31.33	31.39	2027.31326	50.7		1347	1736
56	13C-PCB-208		1359338	601093	758245	0.79	NO	29.69	0.96	29.65	29.72	2376.95729	59.4		1022	974
57	13C-PCB-206		847211	374199	473012	0.79	NO	32.42	1.04	32.39	32.45	2114.74558	52.9		1022	974
58	13C-PCB-209		1016235	551729	464506	1.19	NO	33.54	1.08	33.51	33.58	1589.88887	39.7		405	503
59	13C-PCB-9		7573384	4610415	2962970	1.56	NO	11.87	0.48	11.83	11.90	378.45580	9.5		12780	4780
60	13C-PCB-52		3377586	1507496	1870091	0.81	NO	16.98	0.68	16.94	17.01	427.23256	10.7		9018	6036
61	13C-PCB-101		2884641	1766303	1118338	1.58	NO	20.64	0.83	20.61	20.68	549.59152	13.7		3219	3600
62	13C-PCB-138		2844336	1606769	1237568	1.30	NO	24.89	0.00	24.85	24.92	569.11033	14.2		3272	3602
63	13C-PCB-194		1926842	910070	1016772	0.90	NO	31.08	1.25	31.05	31.11	576.16855	14.4		1347	1736
64	Total MoCB-F1	4		2016814								49759.52424			2236	
65	Total DiCB-F1	3		483835								41962.59504			3268	
66	Total DiCB-F2	3		1073179								51673.15894			5031	
67	Total TrCB-F1	1		343155								2130.73778			2350	
68	Total TrCB-F3	7		833659								26084.39897			3579	
69	Total TeCB-F2	2		352502								3575.43473			1983	
70	Total TeCB-F4	12		1281864								43687.45393			2449	
71	Total PeCB-F3	9		720703								224832.28150			1746	
72	Total PeCB-F5	20		4402941								898018.64879			3969	
73	Total HxCB-F4	3		660306								3369.88033			1095	
74	Total HxCB-F5	23		2571221								60862.01923			1889	

Quantify Sample Summary Report **MassLynx V4.2 SCN1012**

Dataset: I:\Organics Instrument\HIGHRES GCMS Completed Results Files\HR-5\5-211102A-QC1.qld

Last Altered: Wednesday, November 03, 2021 07:57:39 Eastern Daylight Time
Printed: Monday, November 08, 2021 16:14:01 Eastern Standard Time

Name: 5_211102A18, Date: 02-Nov-2021, Time: 22:00:07, ID: WG3603574-2, Description: LCS, Vial: Tray1:14

	Target Analyte	#Hom	Total Area	Ion1 Area	Ion2 Area	Ra	Ra Fail=Y...	RT	RRT	RT LCL	RT UCL	Conc.	%Rec	Mod.Comment	Noise 1	Noise 2
75	Total HpCB-F5	13		534264								52061.57008			1268	
76	Total HpCB-F6	6		796499								383304.46696			830	
77	Total OcCB-F5	4		447112								5274.09529			1253	
78	Total OcCB-F6	4		344018								63697.27814			777	
79	Total NoCB-F6	2		523604								3536.83846			860	
80	Total DeCB-F7	1		276137								1984.48944			399	
81	Total 13C-MoCB-F1	3		3516204								38451.93166			3656	
82	Total 13C-DiCB-F1	2		5582977								1631.23160			12780	
83	Total 13C-DiCB-F2	1		1894196								1958.93685			30831	
84	Total 13C-TrCB-F1	3		2472483								4331590.181...			62011	
85	Total 13C-TrCB-F3	3		2349186								55742.83452			49487	
86	Total 13C-TeCB-F2	1		635721								1001.62388			8077	
87	Total 13C-TeCB-F3	5		1515504								429.59848			9018	
88	Total 13C-TeCB-F4	6		2282429								43402.20599			10504	
89	Total 13C-PeCB-F3	2		1195334								89589.52005			1943	
90	Total 13C-PeCB-F4	9		2435862								1859.50736			3219	
91	Total 13C-PeCB-F5	15		7188114								574309.34337			5816	
92	Total 13C-HxCB-F4	2		1218732								7372.12134			2116	
93	Total 13C-HxCB-F5	13		6353234								10270.96689			3272	
94	Total 13C-HpCB-F5	10		1467934								55507.79704			2174	
95	Total 13C-HpCB-F6	6		1481304								550808.78809			2617	
96	Total 13C-OcCB-F5	4		765614								6886.58253			1617	
97	Total 13C-OcCB-F6	4		1628634								2645.04673			1347	
98	Total 13C-NoCB-F6	3		975665								5240.64836			1022	
99	Total 13C-DeCB-F7	1		551729								1589.88887			405	
100	Lockmass F1			0											12800...	
101	Lockmass F2			0											578705	
102	Lockmass F3			0											1198374	
103	Lockmass F4			0											646812	
104	Lockmass F5			0											233393	
105	Lockmass F6			0											295811	
106	Lockmass F7			0											52938	

Quantify Audit Report MassLynx V4.2 SCN1012

Dataset: I:\Organics Instrument\HIGHRES GCMS Completed Results Files\HR-5\5-211102A-QC1.qld

Last Altered: Wednesday, November 03, 2021 07:57:39 Eastern Daylight Time
Printed: Monday, November 08, 2021 16:14:01 Eastern Standard Time

Date	Time	Event	Details	Comments
03-Nov-21	07:57:38	Process Extract		
03-Nov-21	07:57:38	Process Integrate		
03-Nov-21	07:57:38	Process Quantify		
03-Nov-21	07:57:39	Dataset Created		
03-Nov-21	08:01:37	Dataset Saved	Saved to 'I:\Organics Instrument\HIGHRES GCMS Complete...	

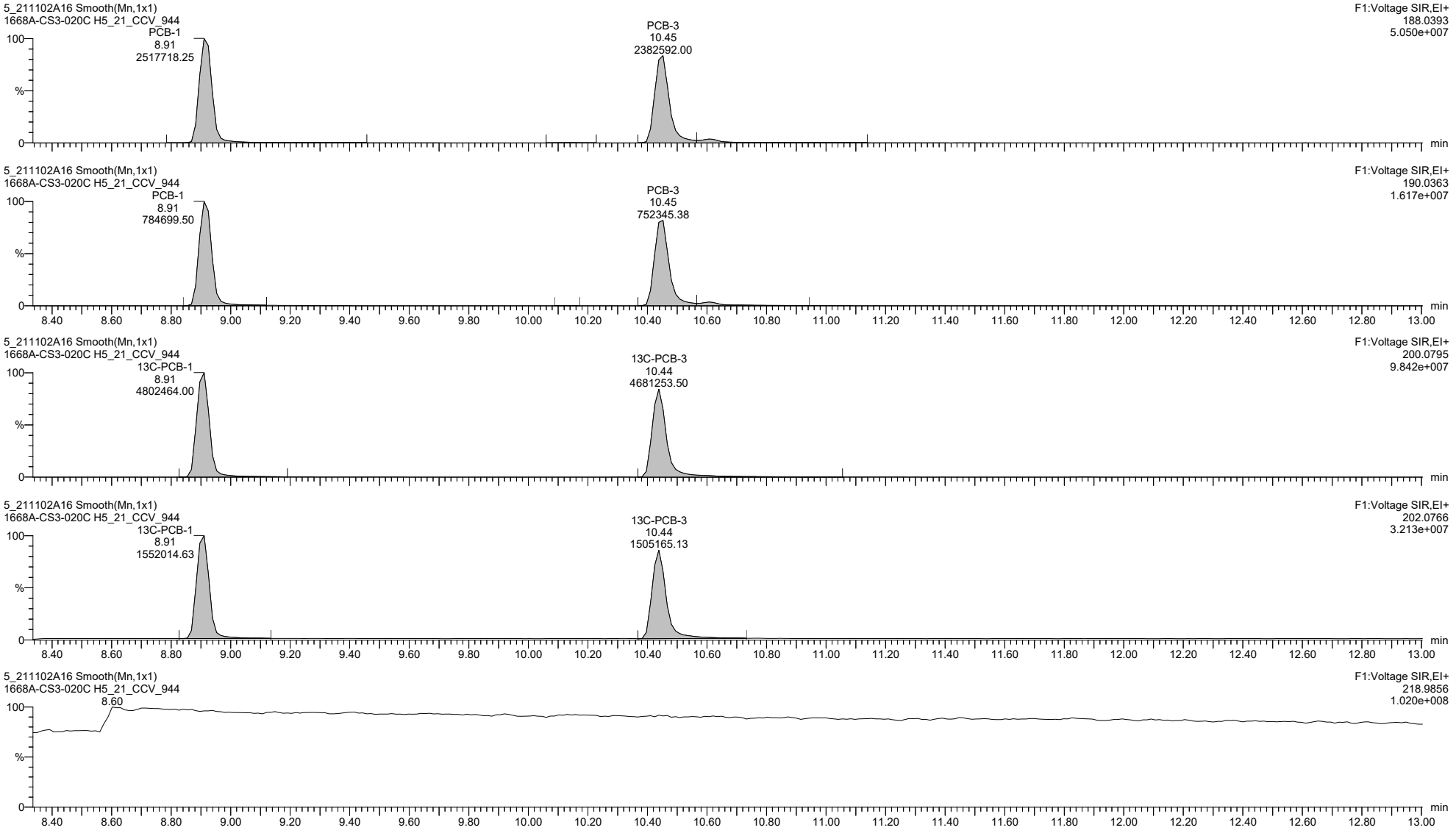
Quantify Sample Template Report **MassLynx V4.2 SCN1012**

Dataset: I:\Organics Instrument\HIGHRES GCMS Completed Results Files\HR-5\5-211102A-QC1.qld

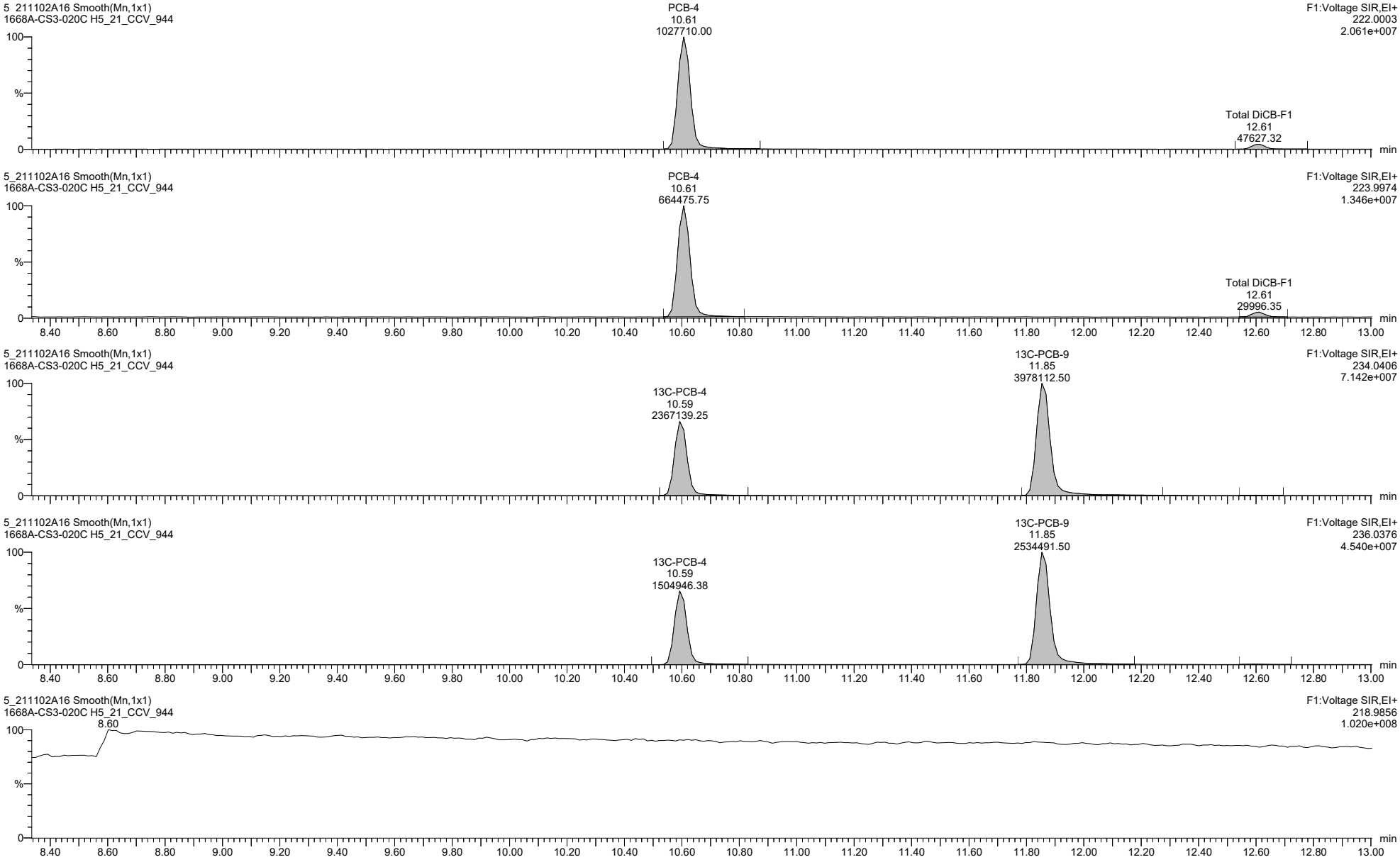
Last Altered: Wednesday, November 03, 2021 07:57:39 Eastern Daylight Time
Printed: Monday, November 08, 2021 16:14:01 Eastern Standard Time

Method: C:\MassLynx\PCB.PRO\MethDB\1668_OCTYL_ICAL.mdb 16 Sep 2021 12:25:18
Calibration: C:\MassLynx\PCB.PRO\CurveDB\5_201202A_ICAL.cdb 02 Dec 2020 16:02:34

Name: 5_211102A16, Date: 02-Nov-2021, Time: 20:25:55, ID: H5_21_CCV_944, Description: 1668A-CS3-020C, Vial: Tray1:1



Name: 5_211102A16, Date: 02-Nov-2021, Time: 20:25:55, ID: H5_21_CCV_944, Description: 1668A-CS3-020C, Vial: Tray1:1



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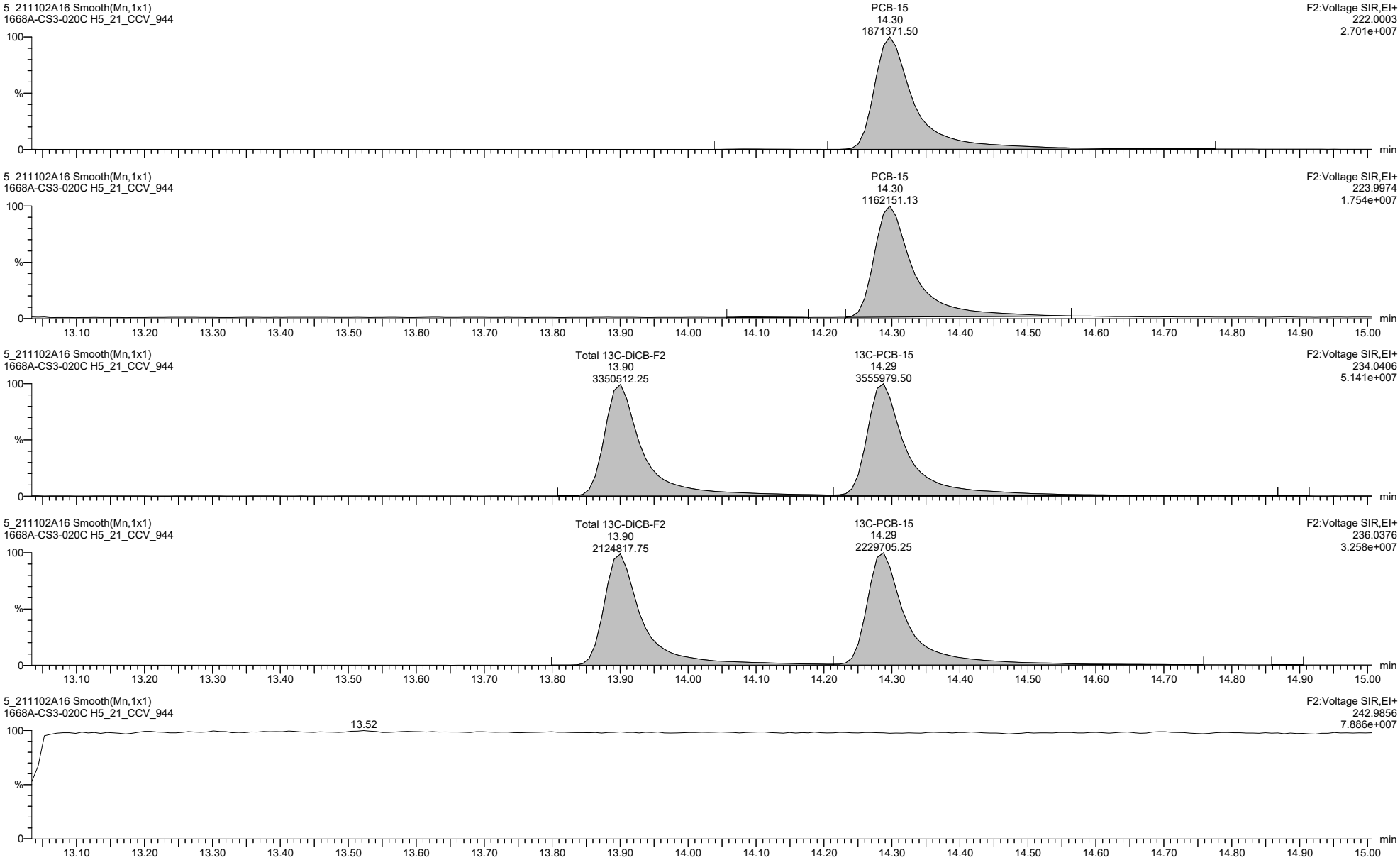

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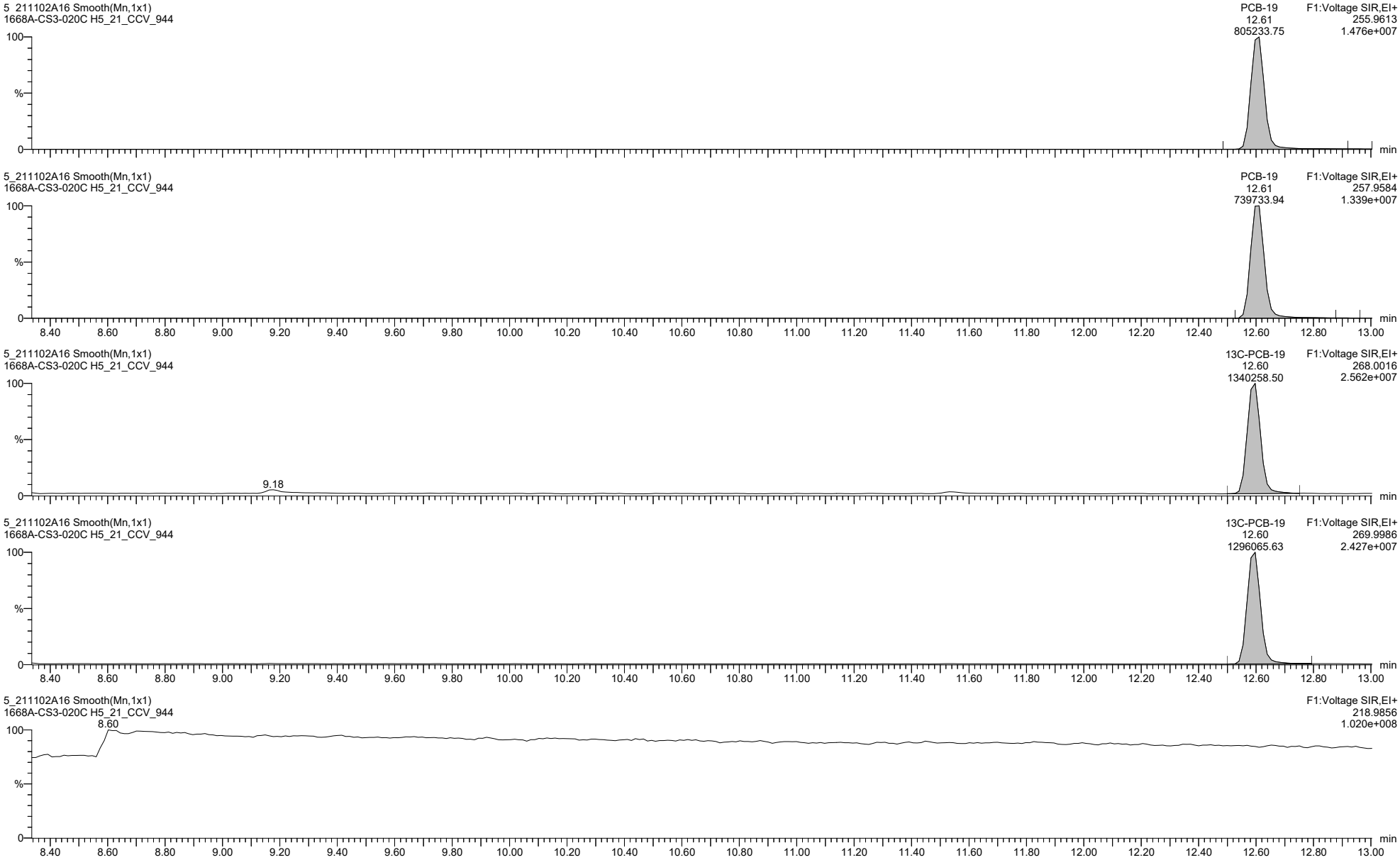

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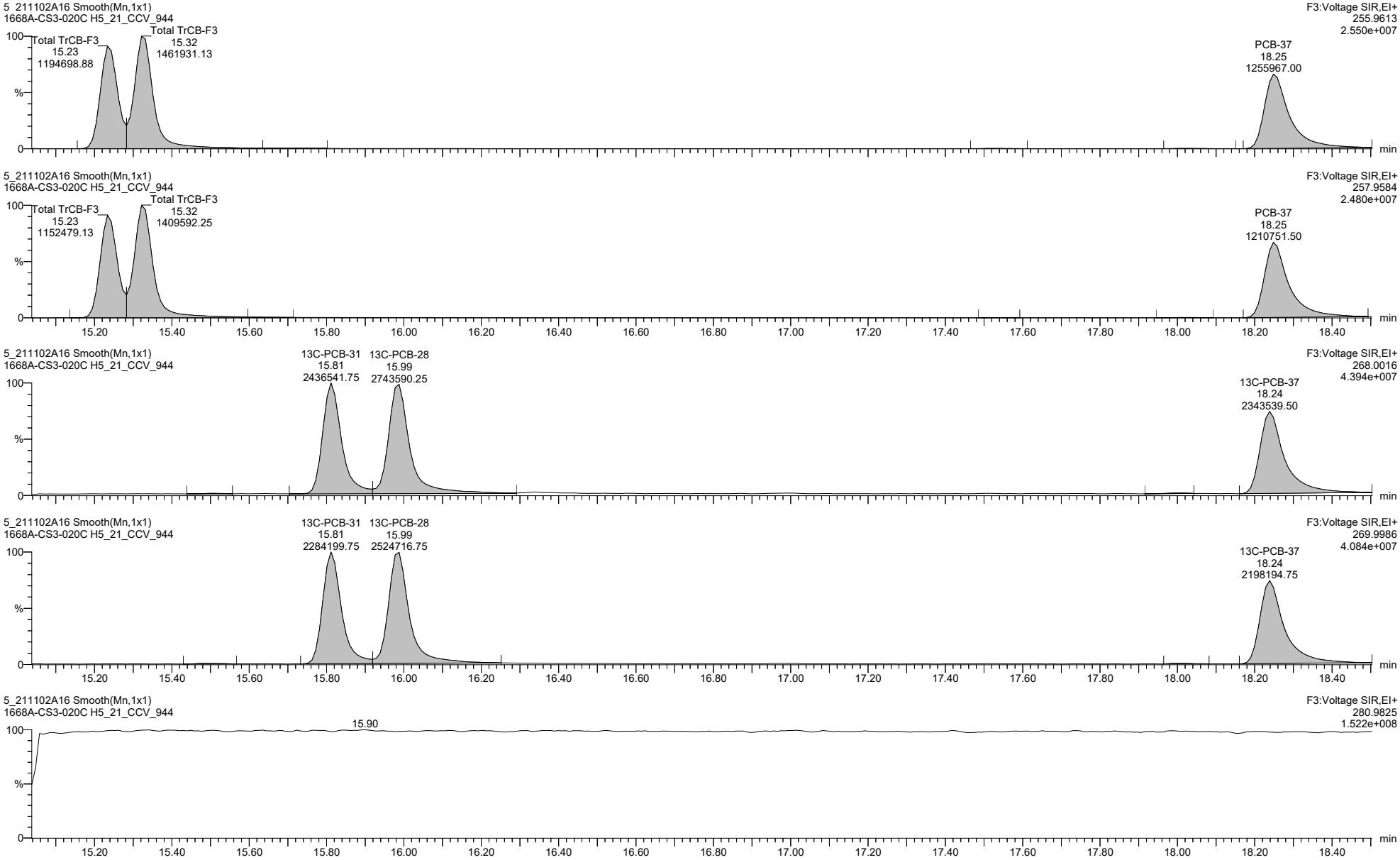

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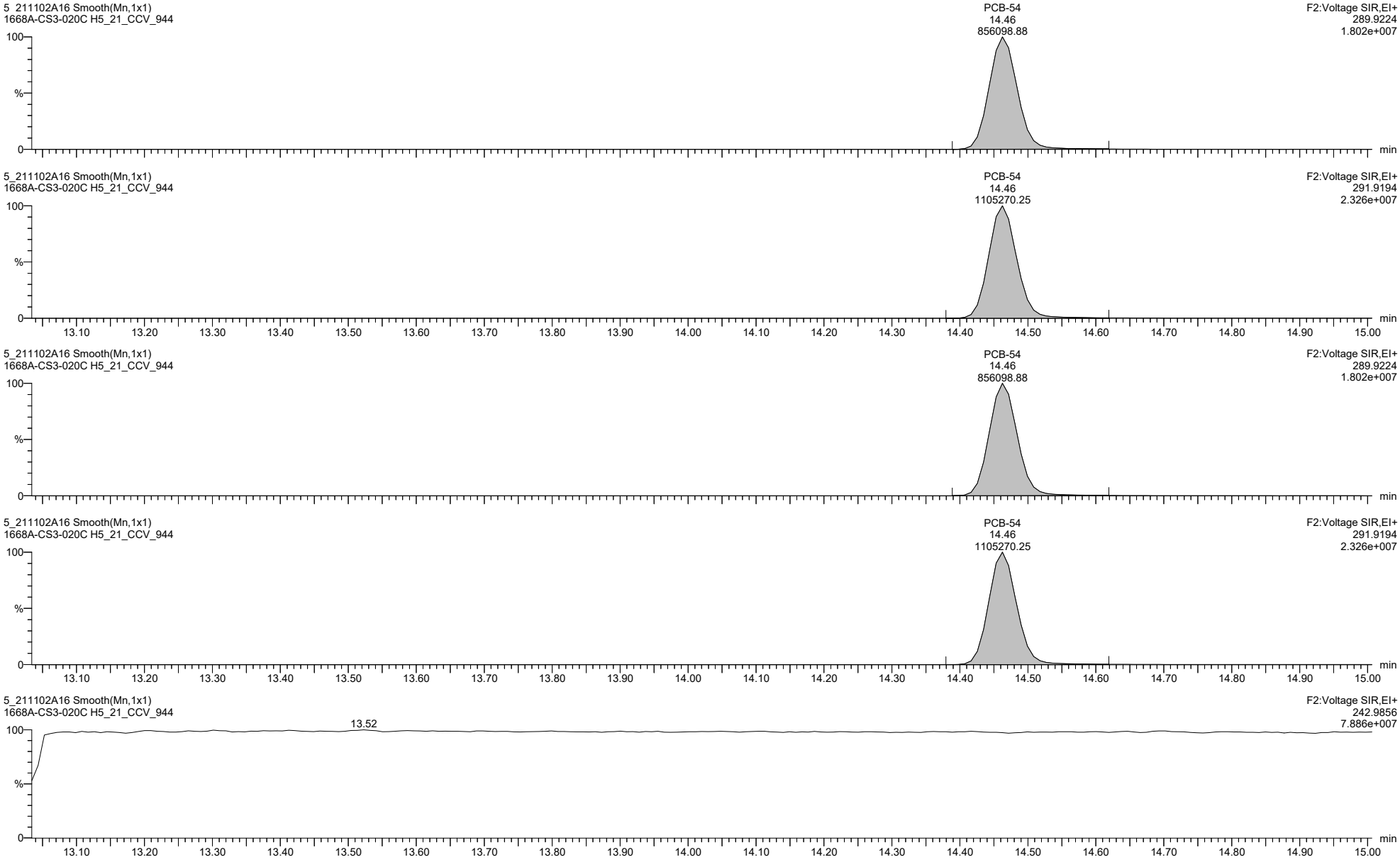

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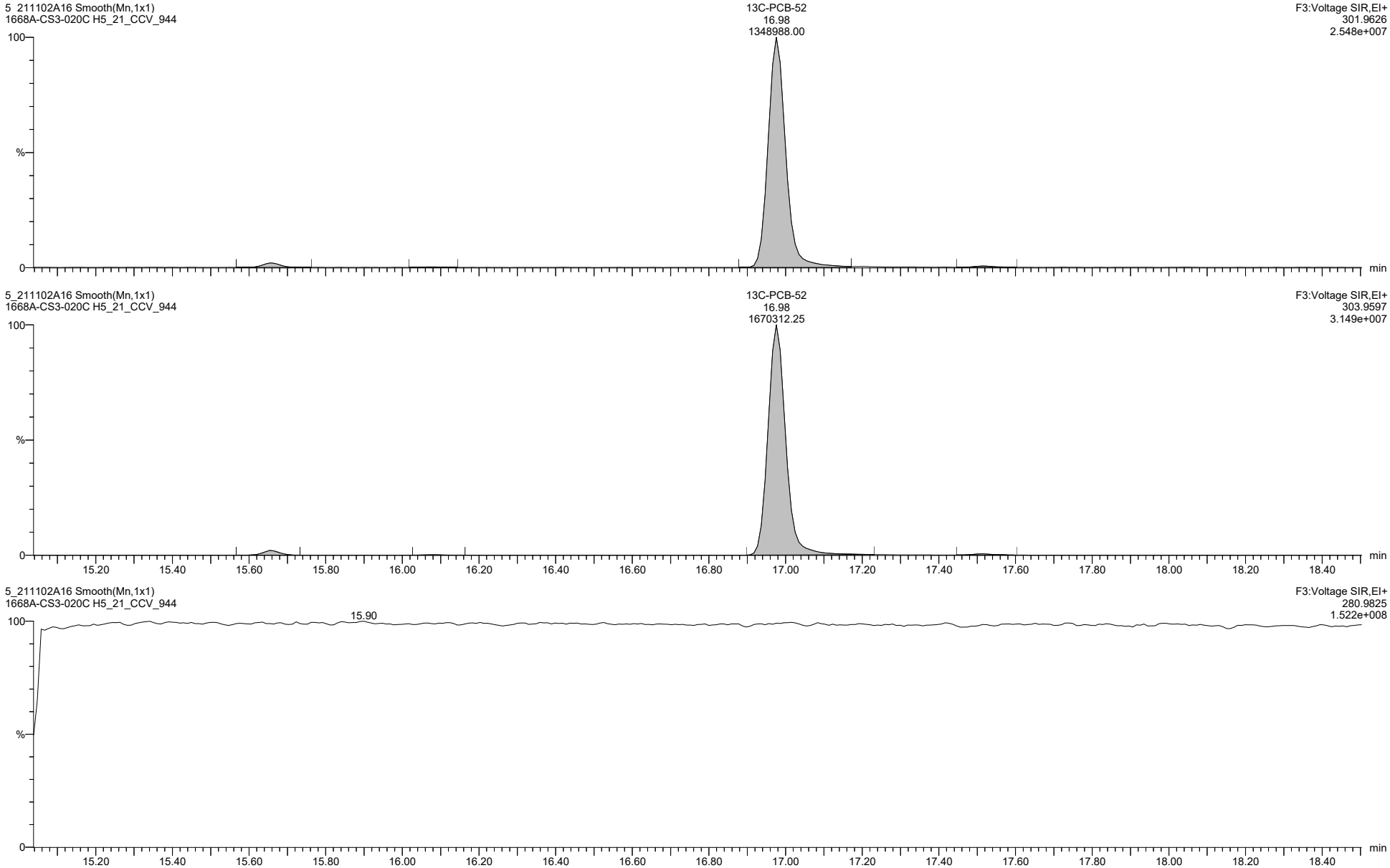

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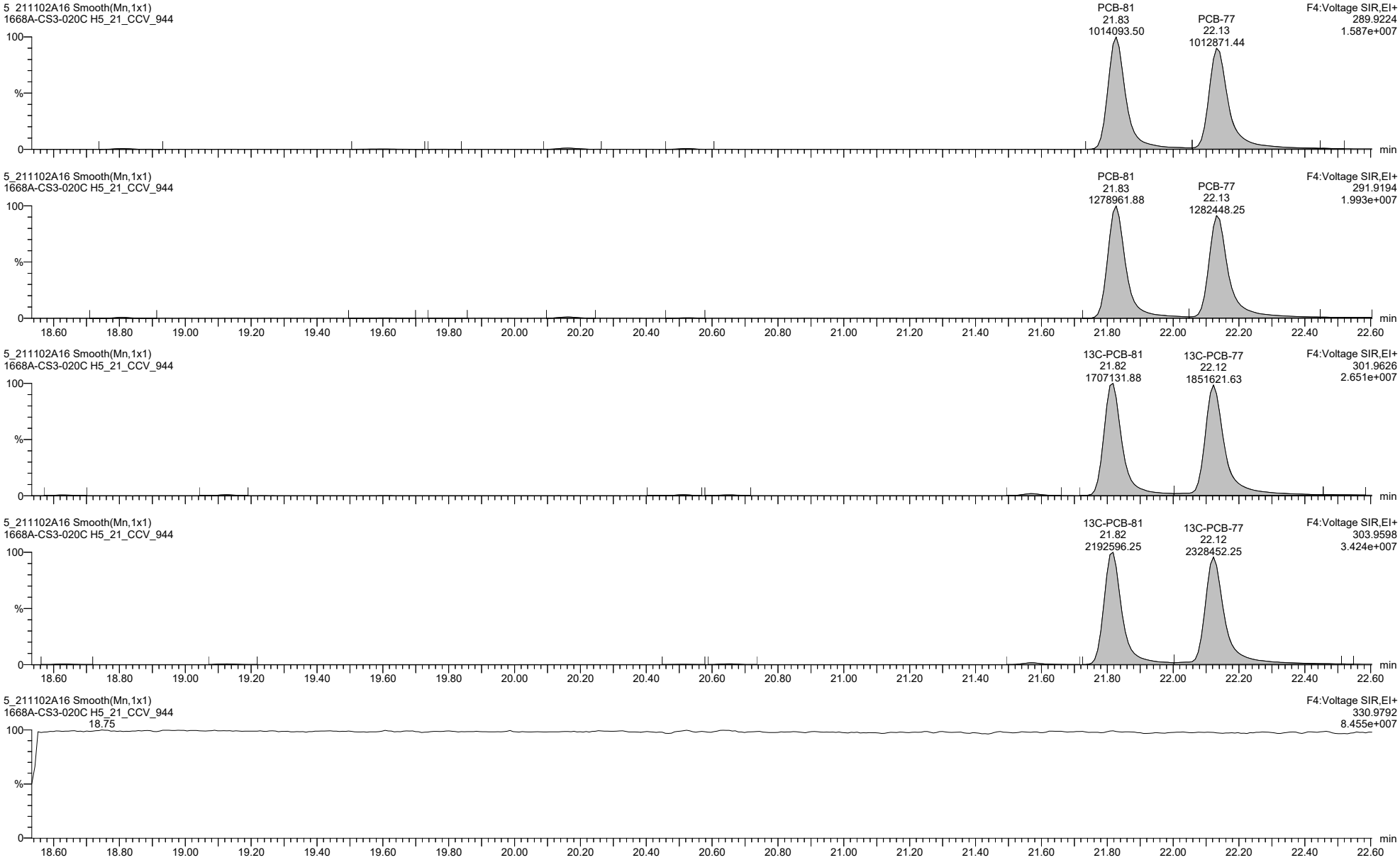

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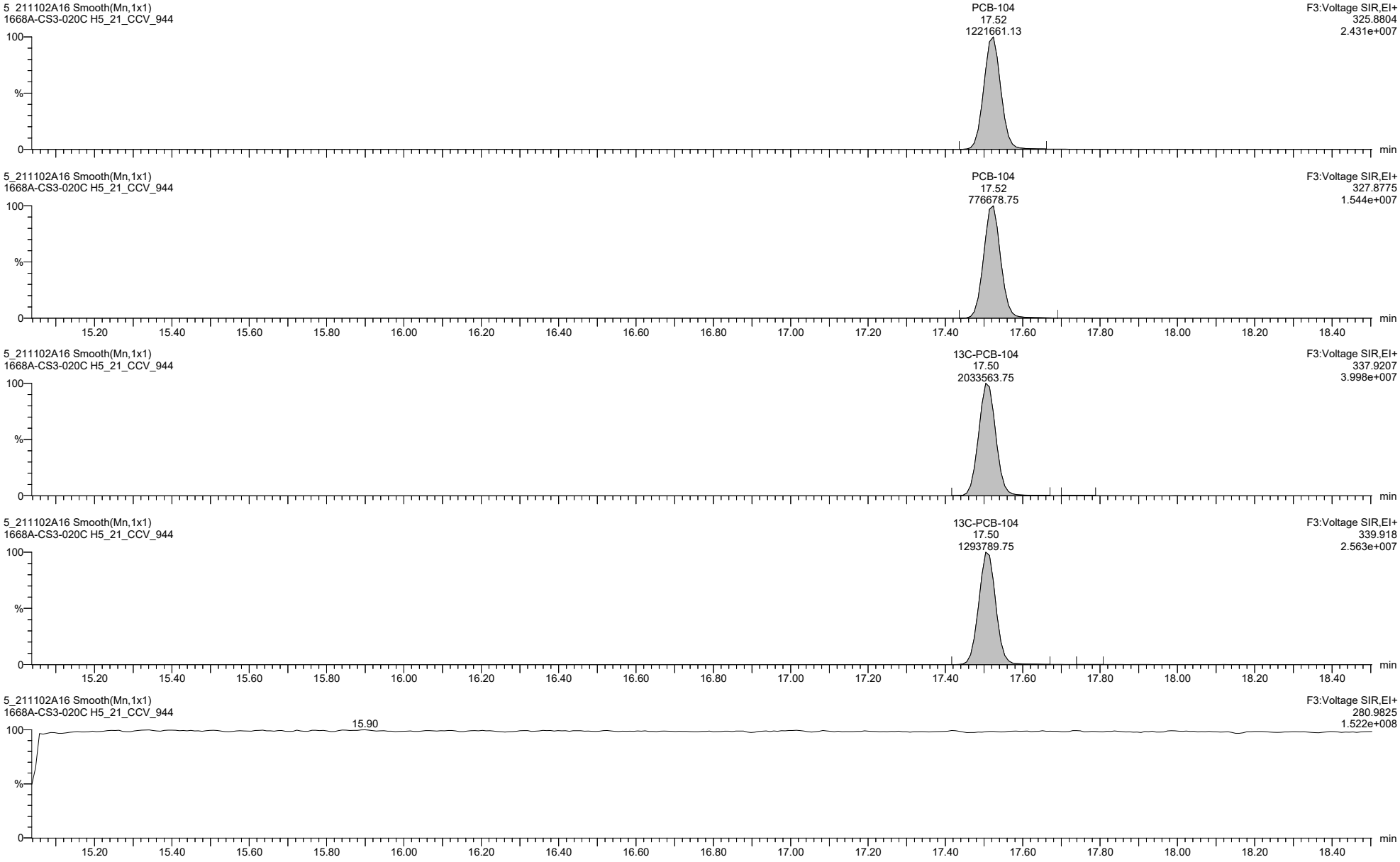

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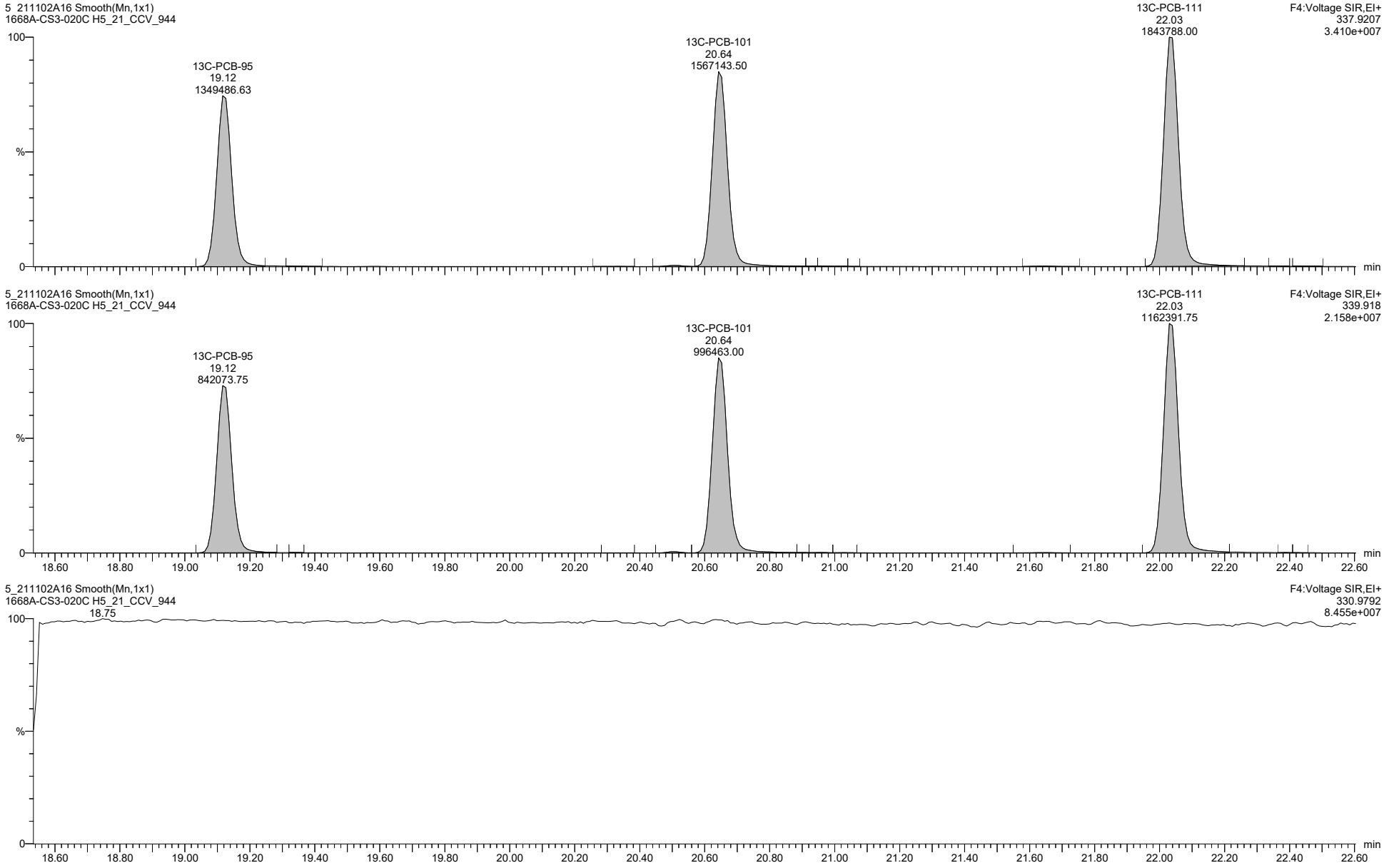

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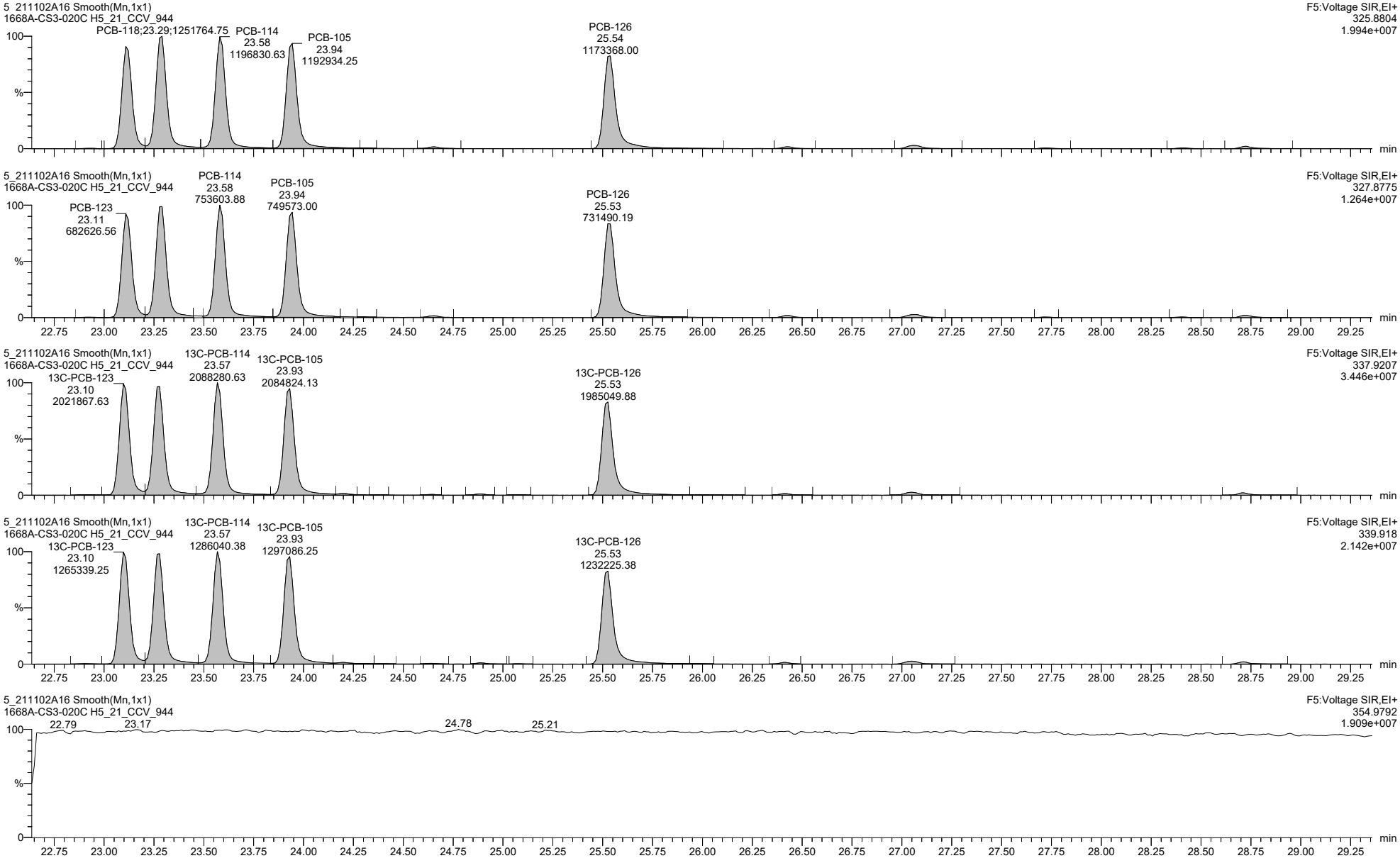

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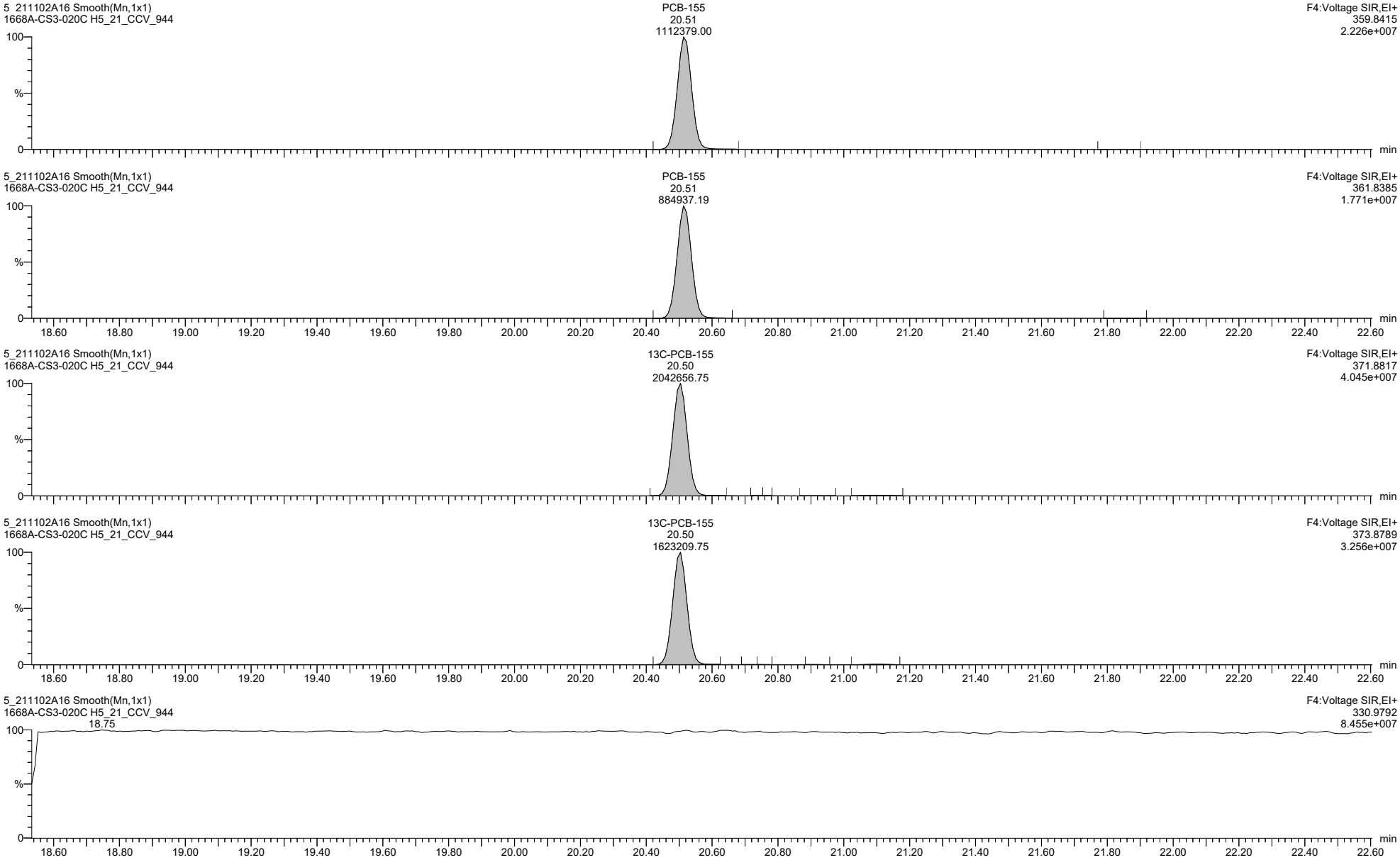
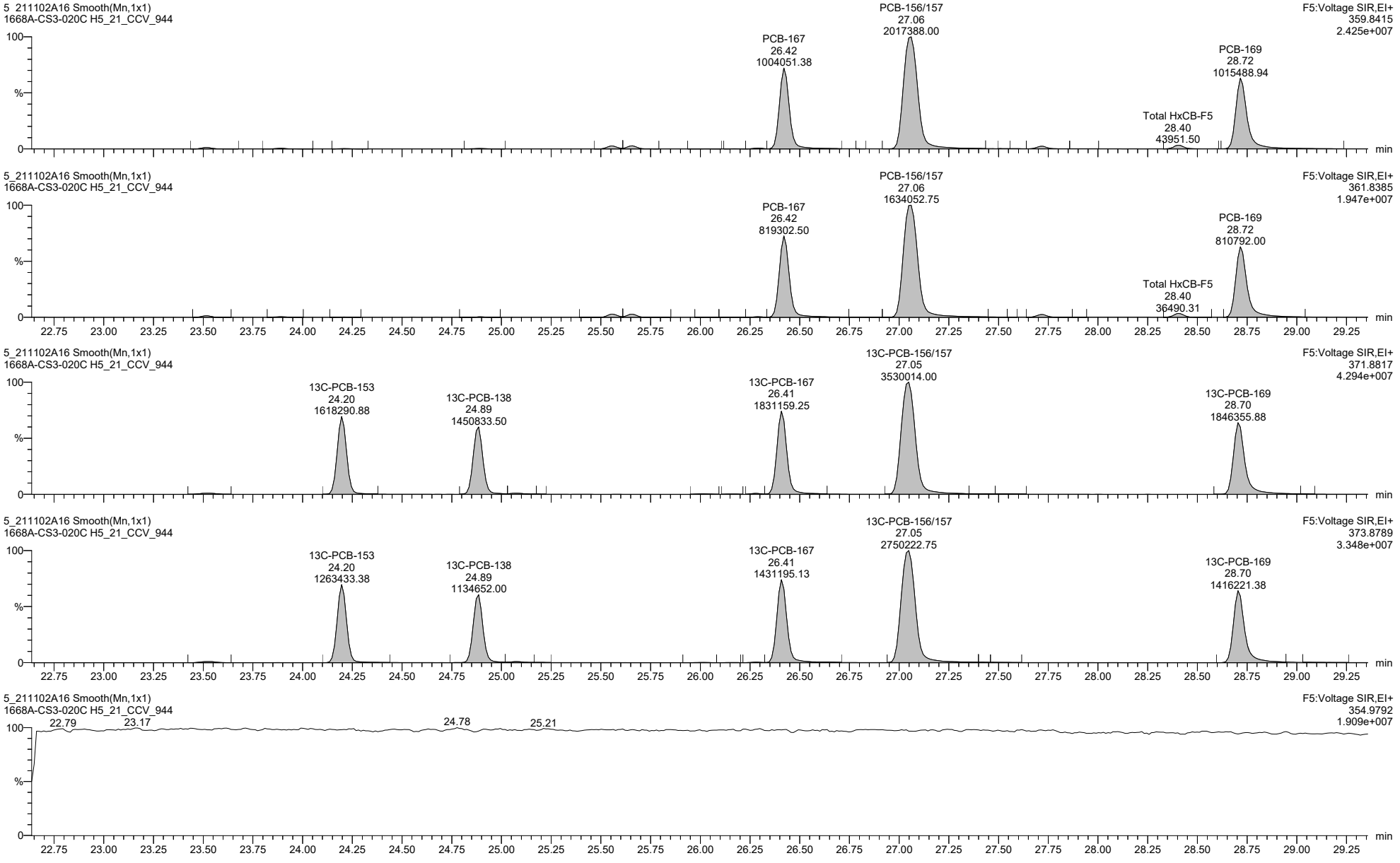


Quantify Sample Template Report **MassLynx V4.2 SCN1012**

Dataset: I:\Organics Instrument\HIGHRES GCMS Completed Results Files\HR-5\5-211102A-QC1.qld

Last Altered: Wednesday, November 03, 2021 07:57:39 Eastern Daylight Time
Printed: Monday, November 08, 2021 16:14:01 Eastern Standard Time

Name: 5_211102A16, Date: 02-Nov-2021, Time: 20:25:55, ID: H5_21_CCV_944, Description: 1668A-CS3-020C, Vial: Tray1:1



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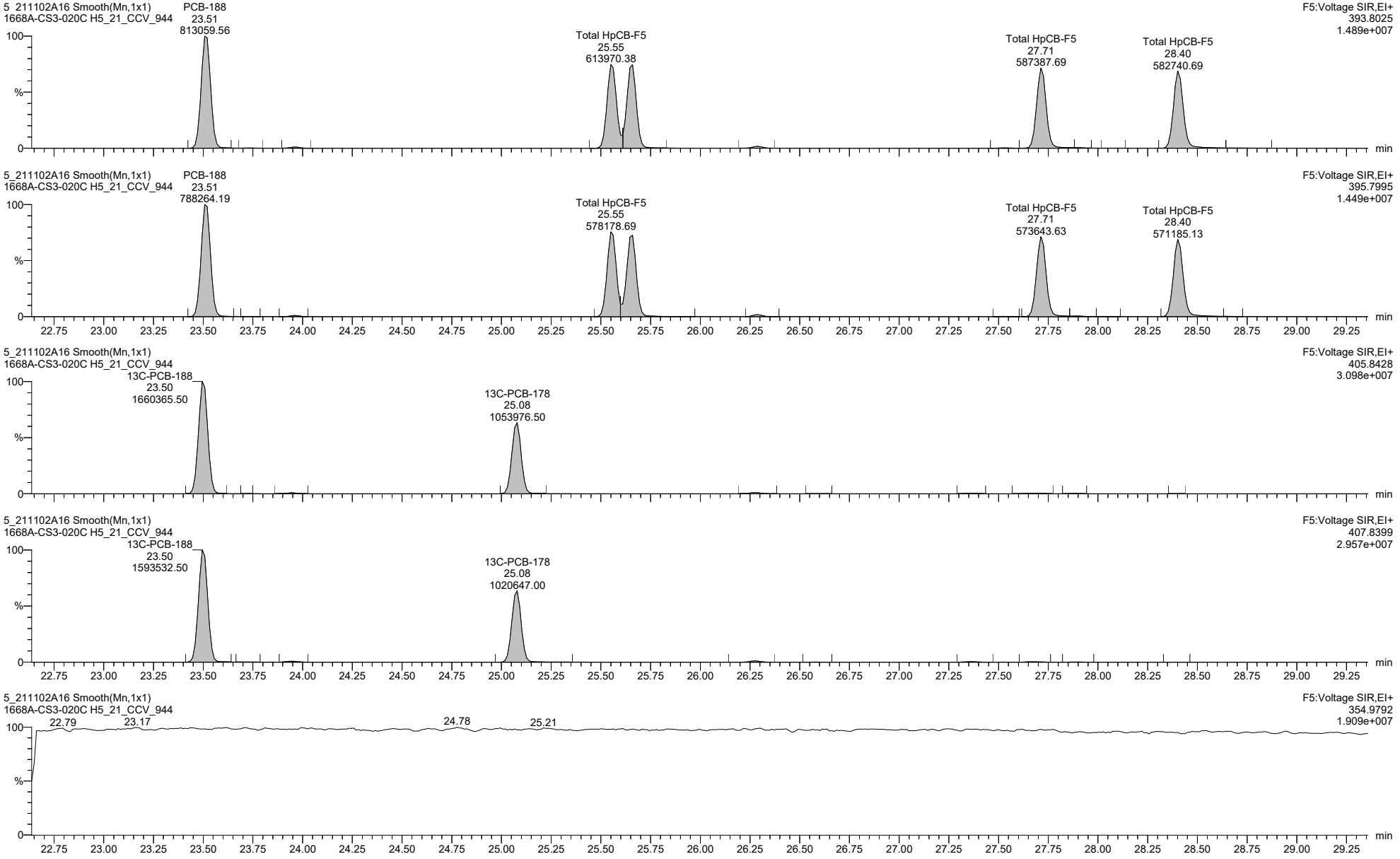

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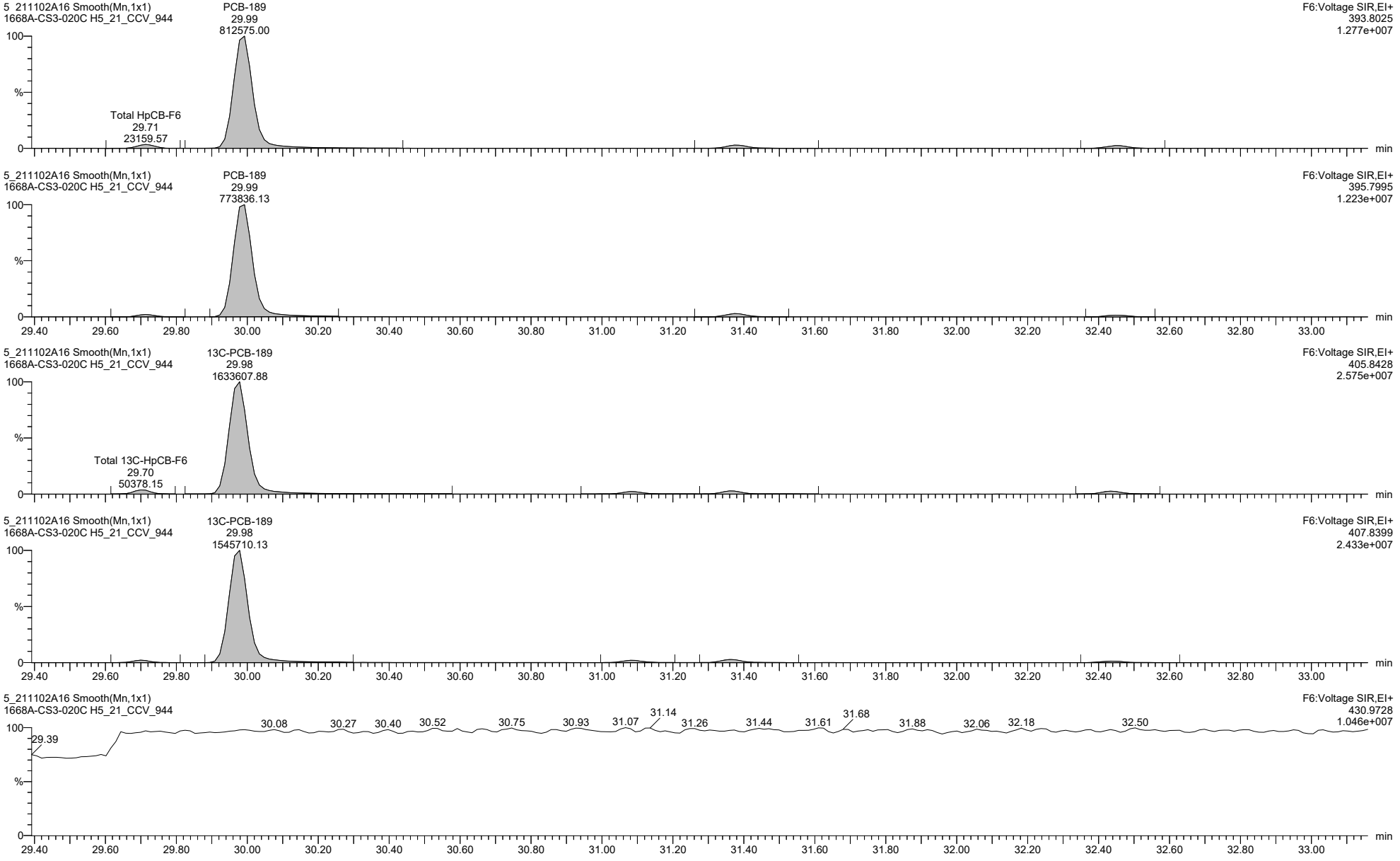

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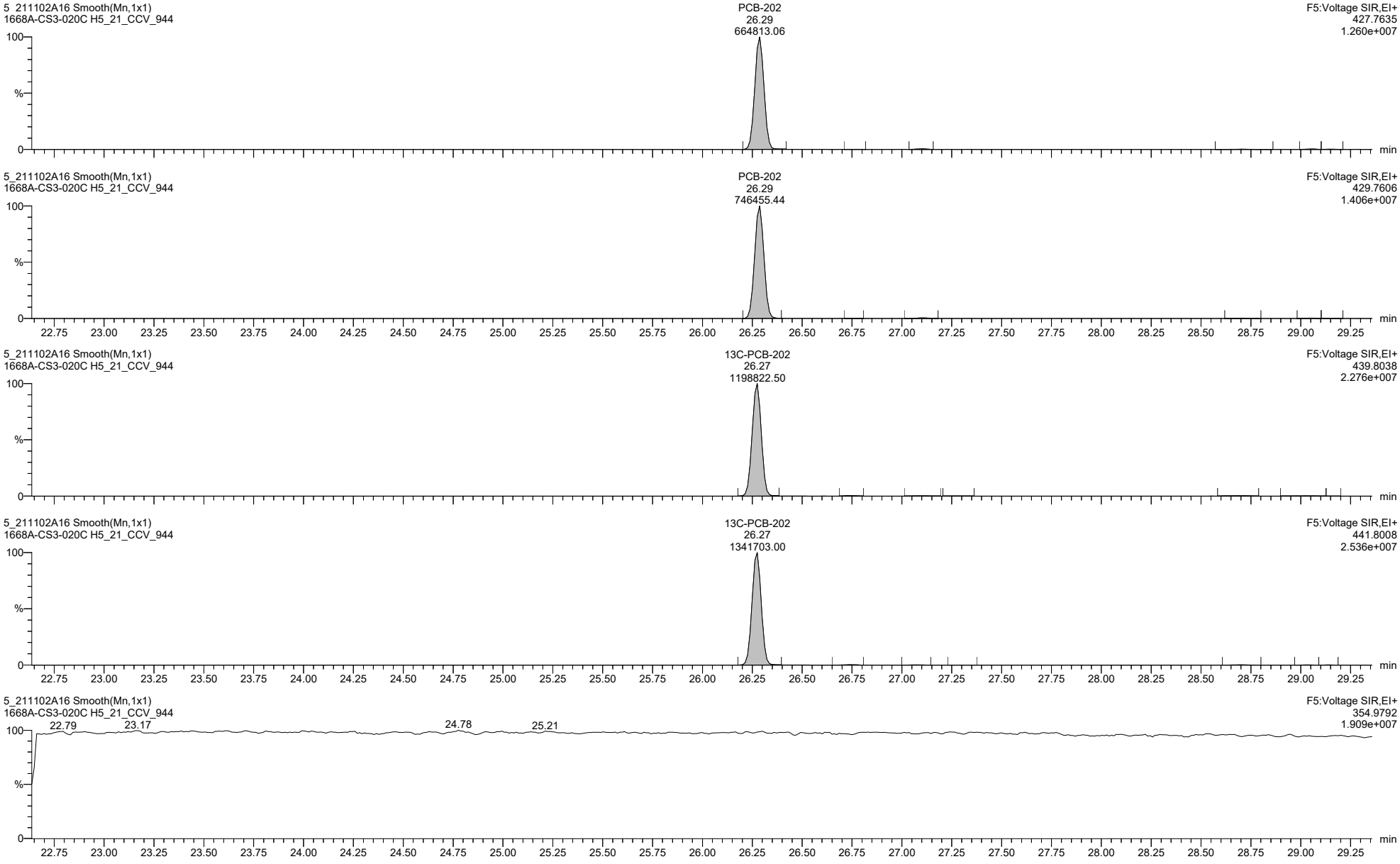

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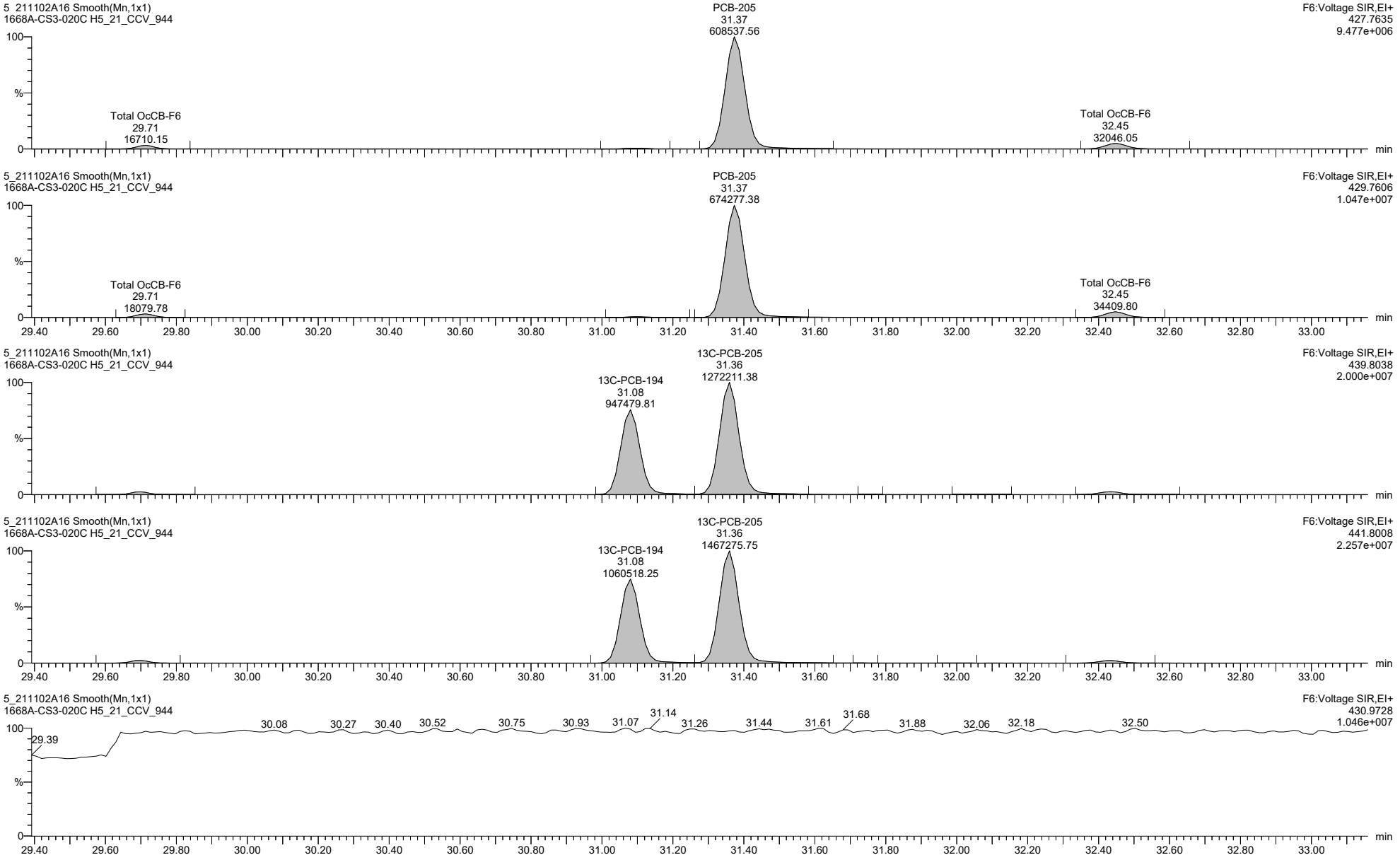

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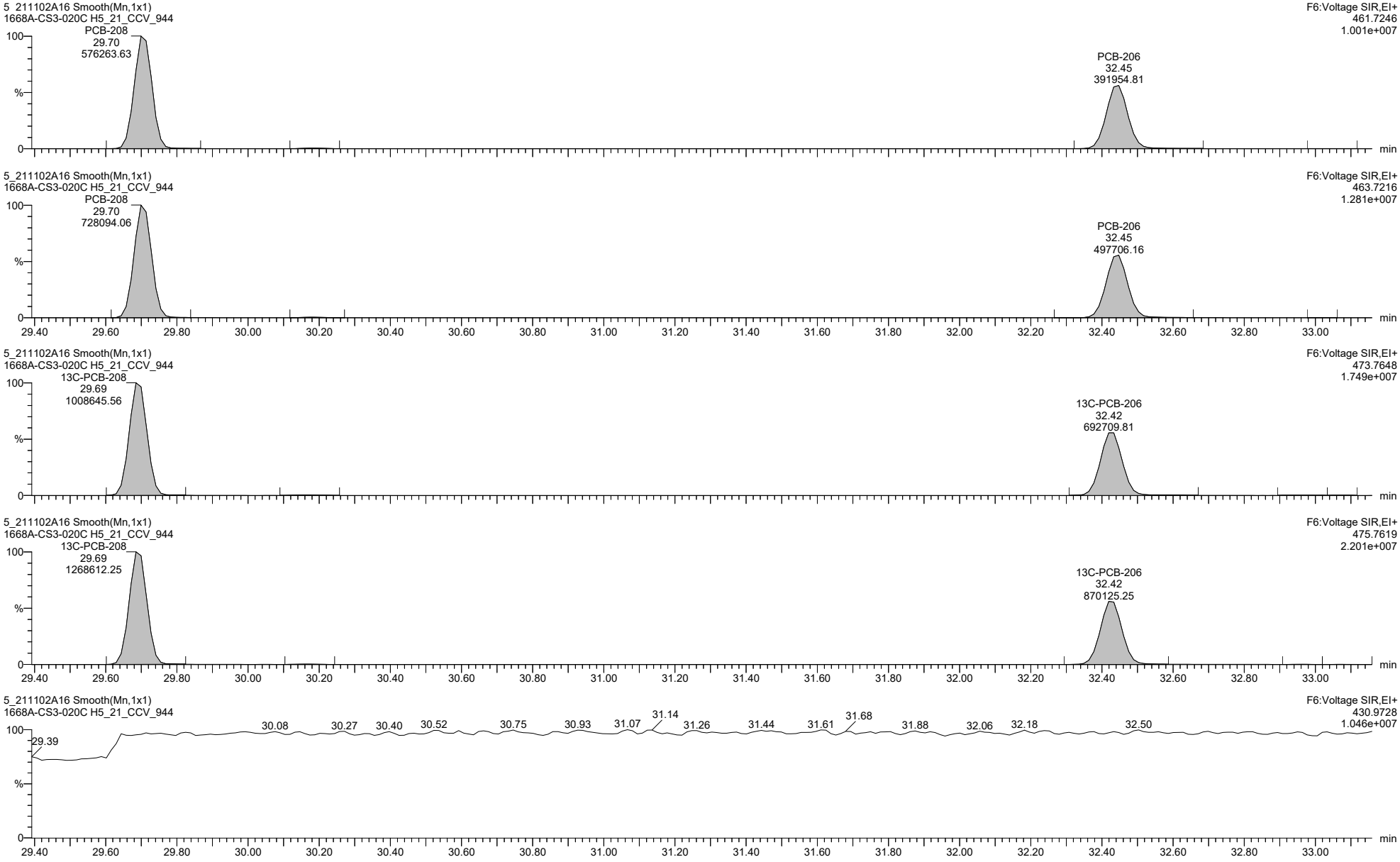

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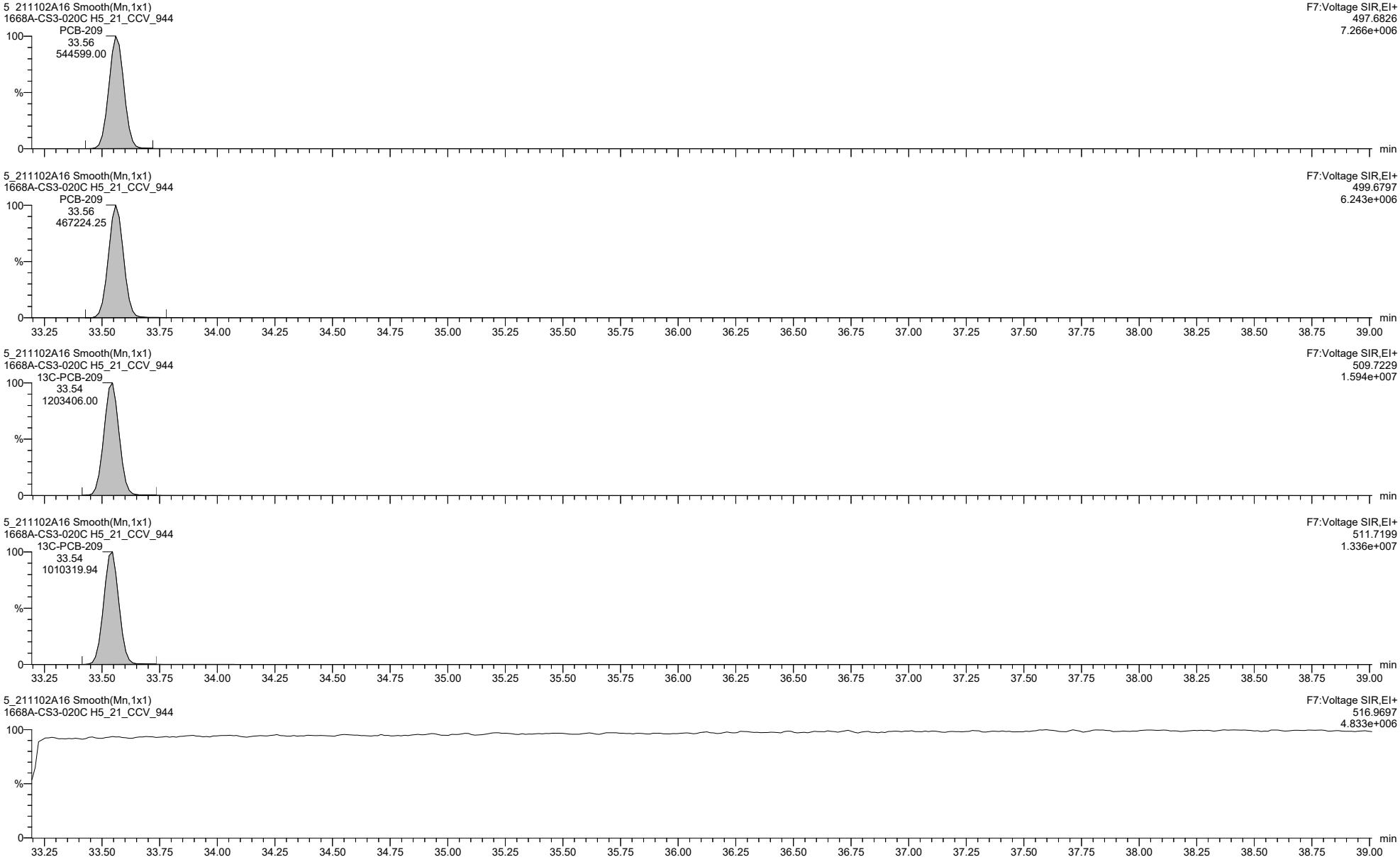

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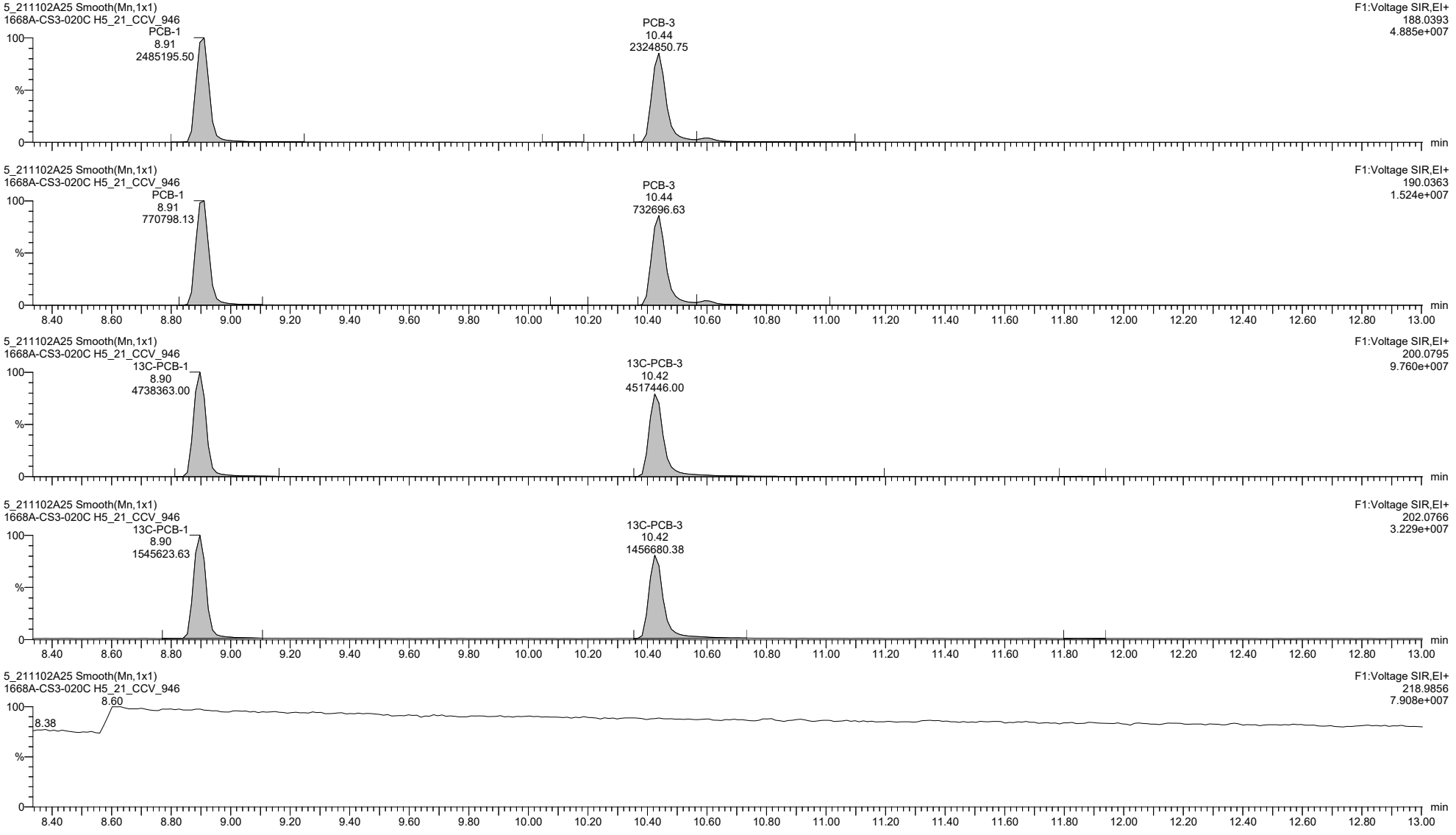
Calibration: C:\MassLynx\PCB.PRO\CurveDB\5_201202A_ICAL.cdb 02 Dec 2020 16:02:34

Name: 5_211102A25, Date: 03-Nov-2021, Time: 02:55:26, ID: H5_21_CCV_946, Description: 1668A-CS3-020C, Vial: Tray1:1



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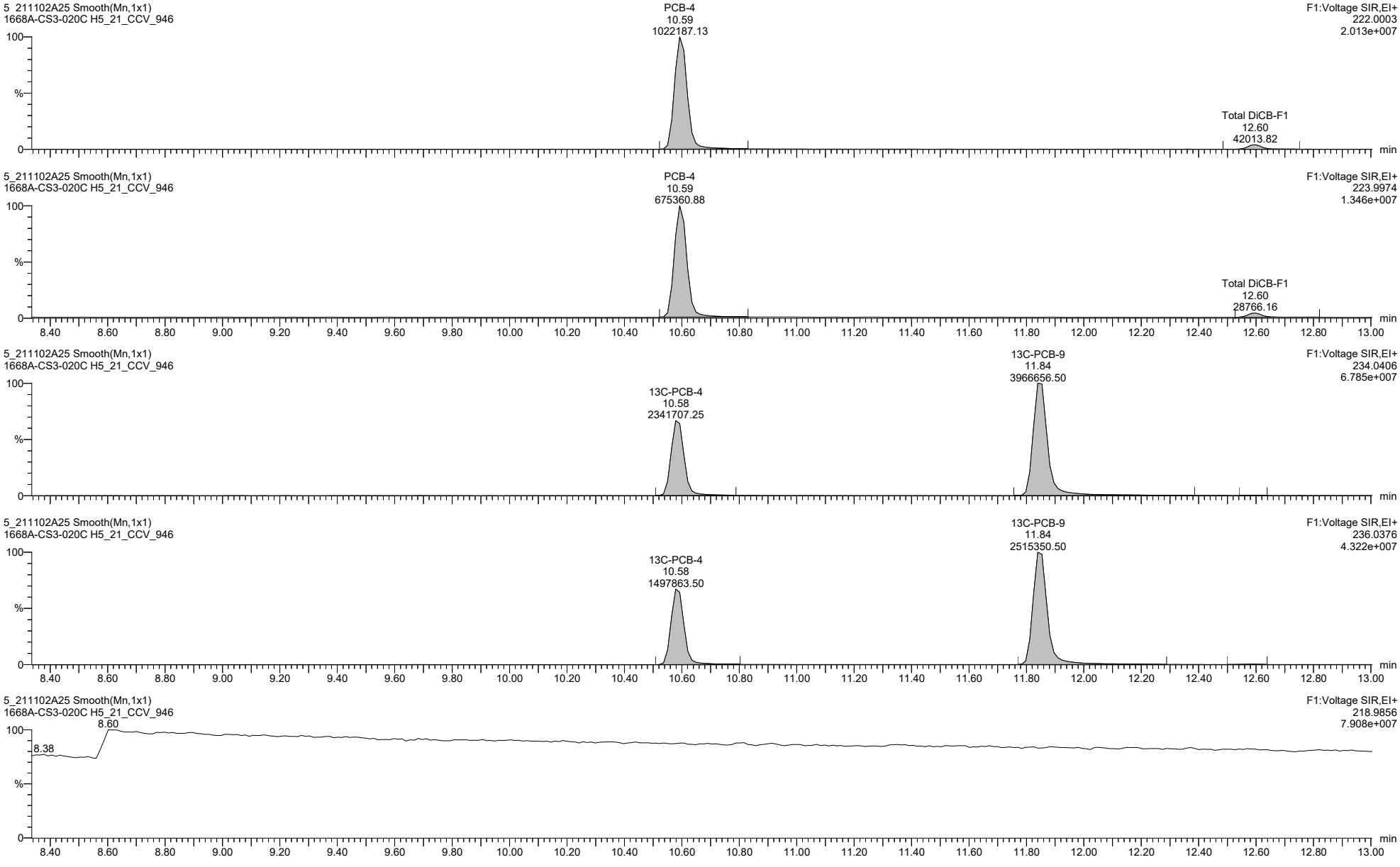

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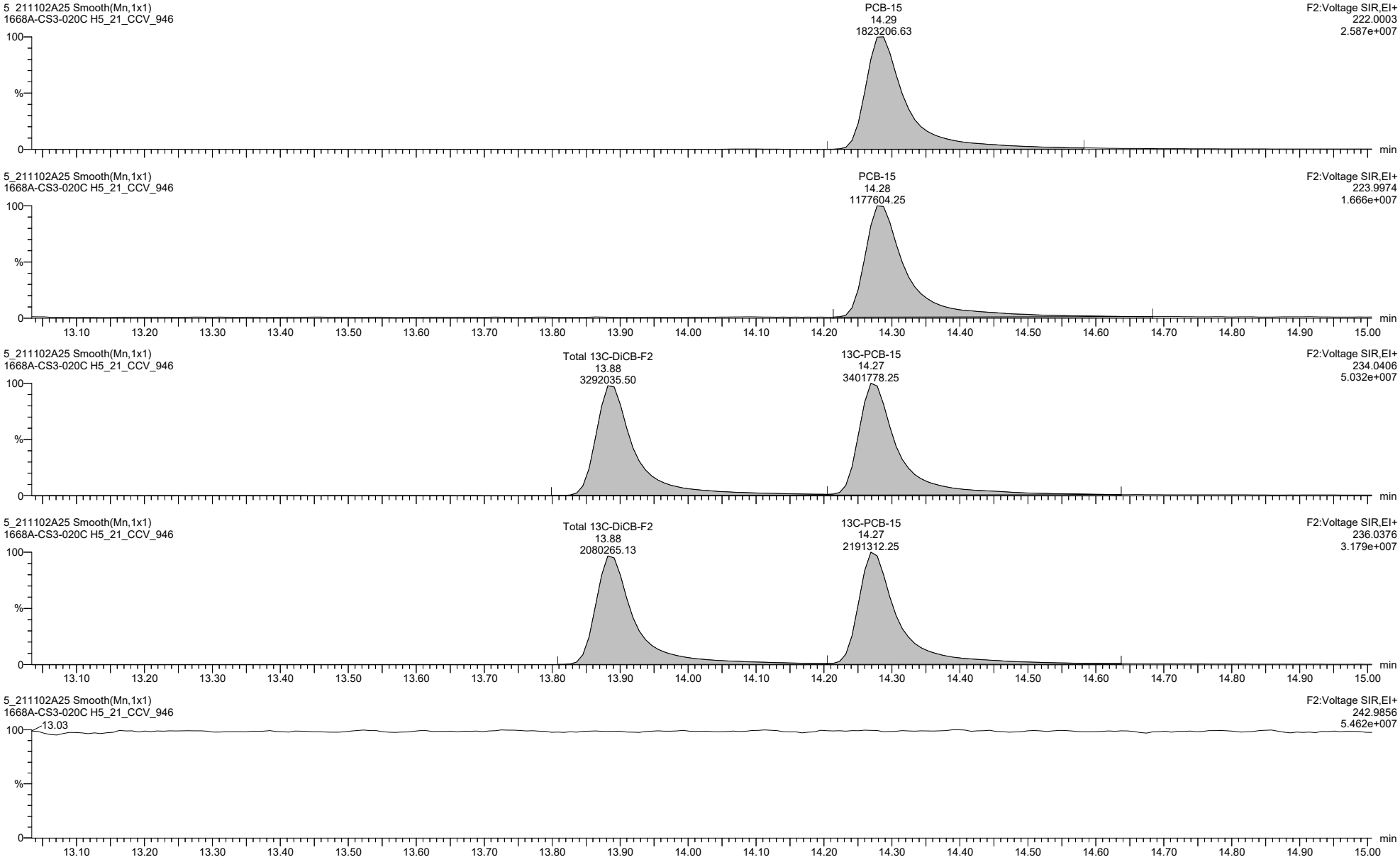

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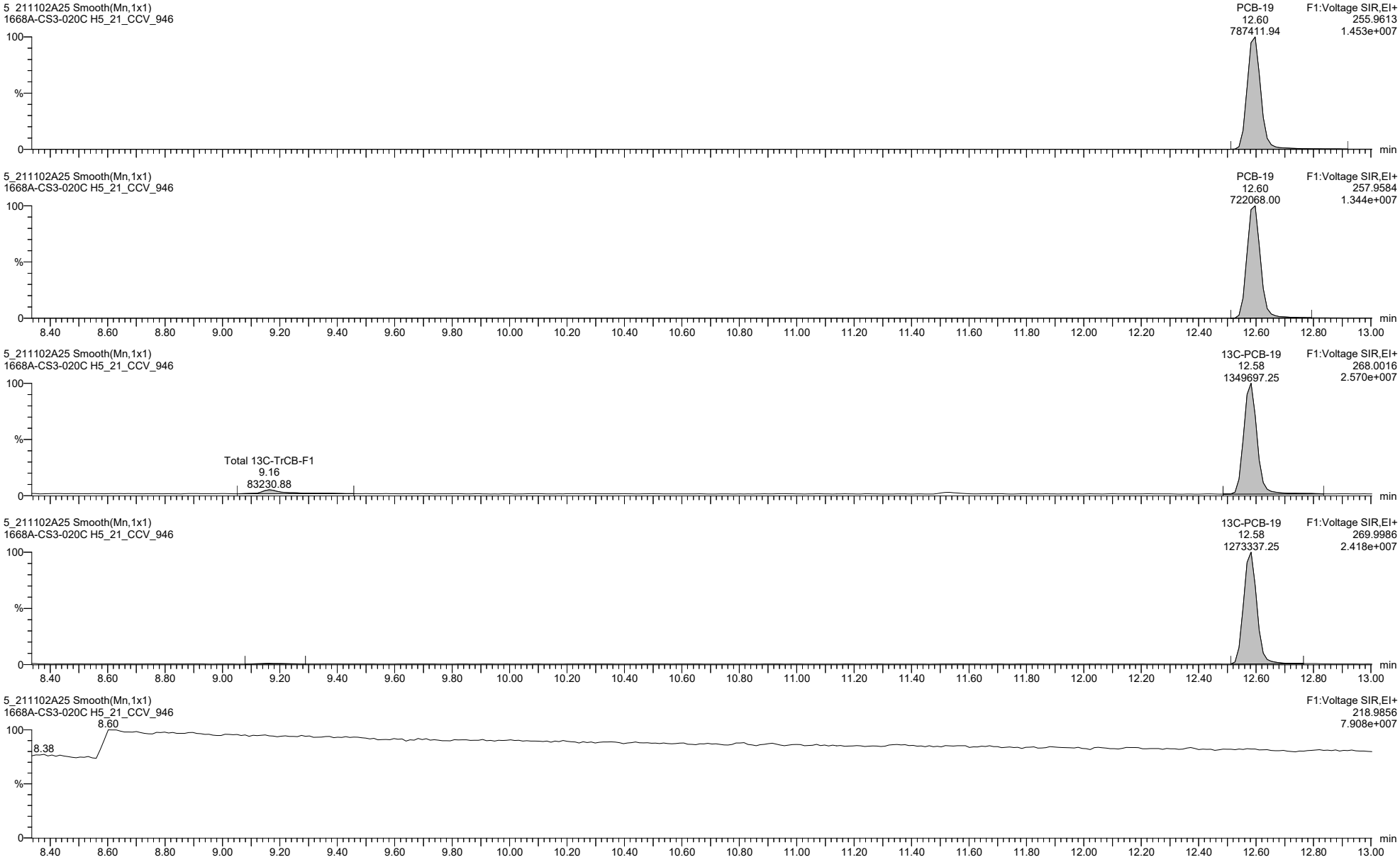

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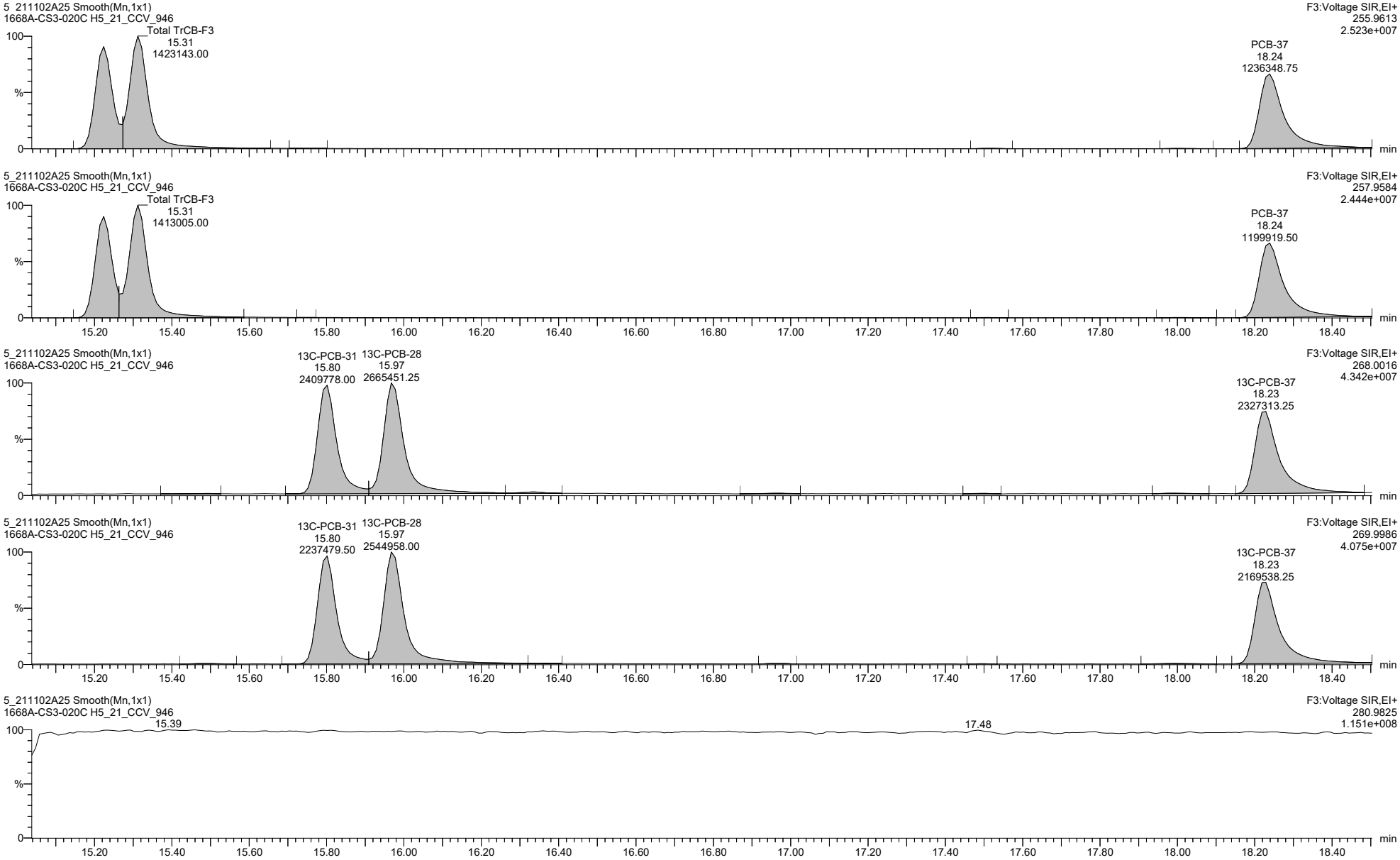

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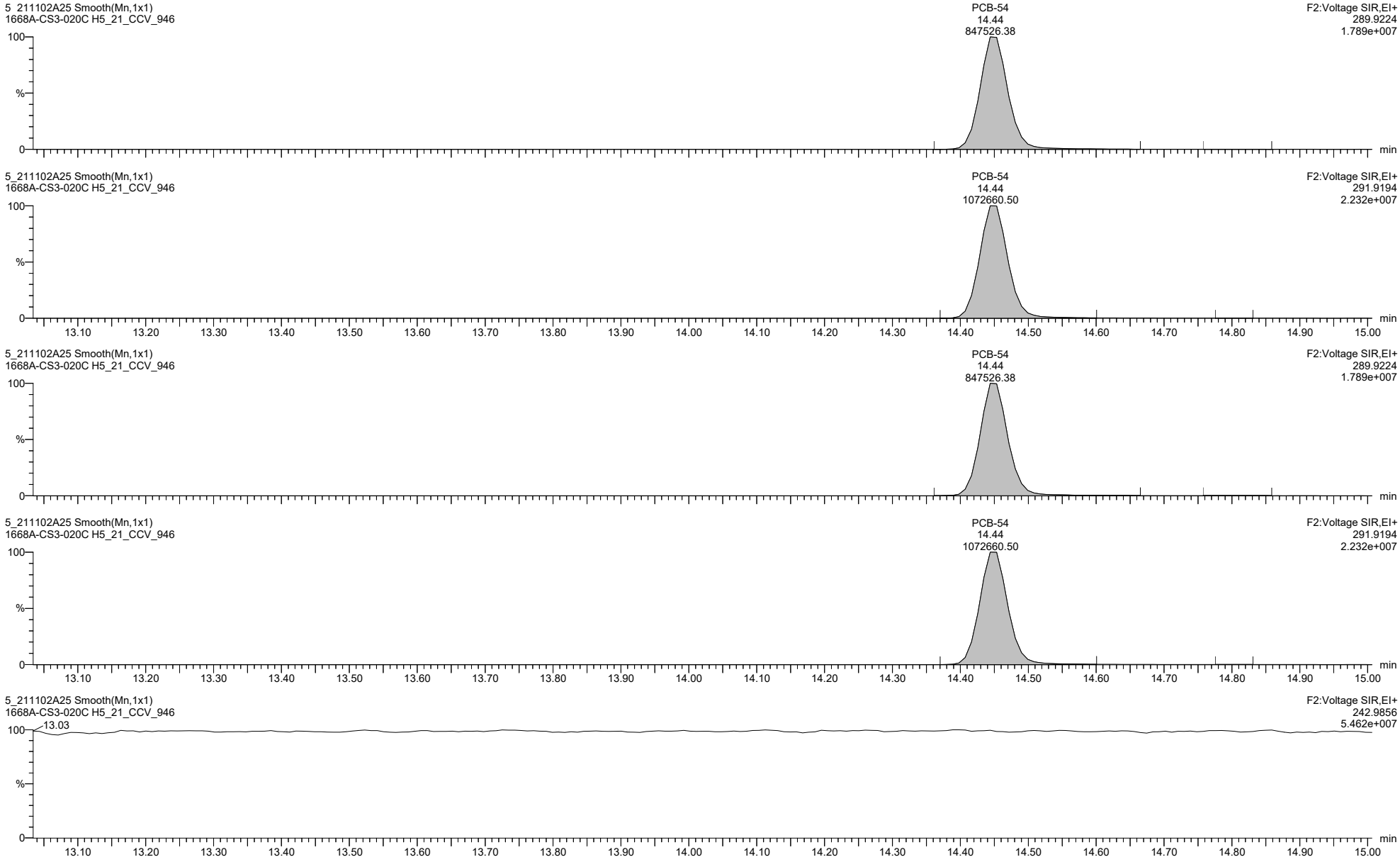

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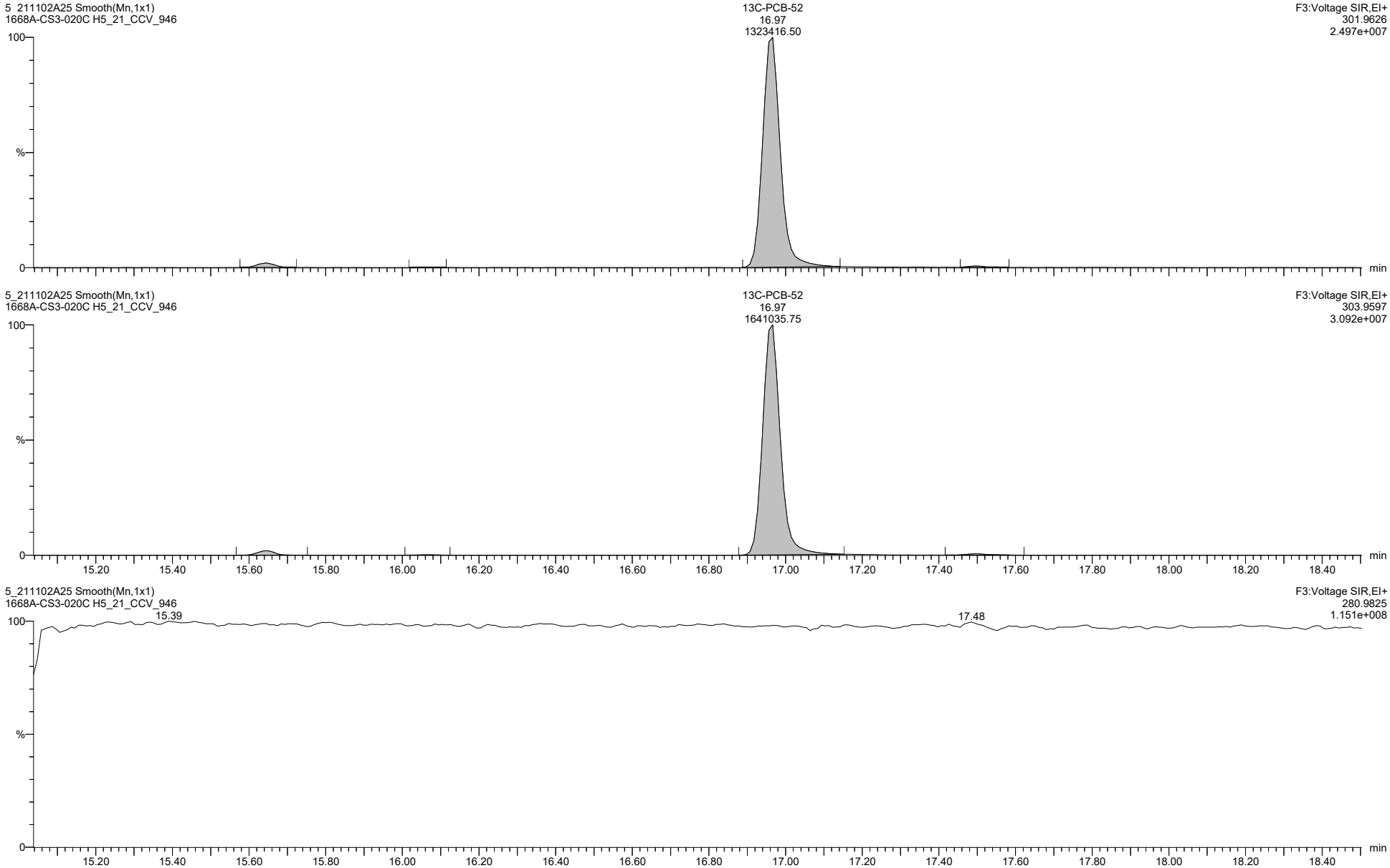

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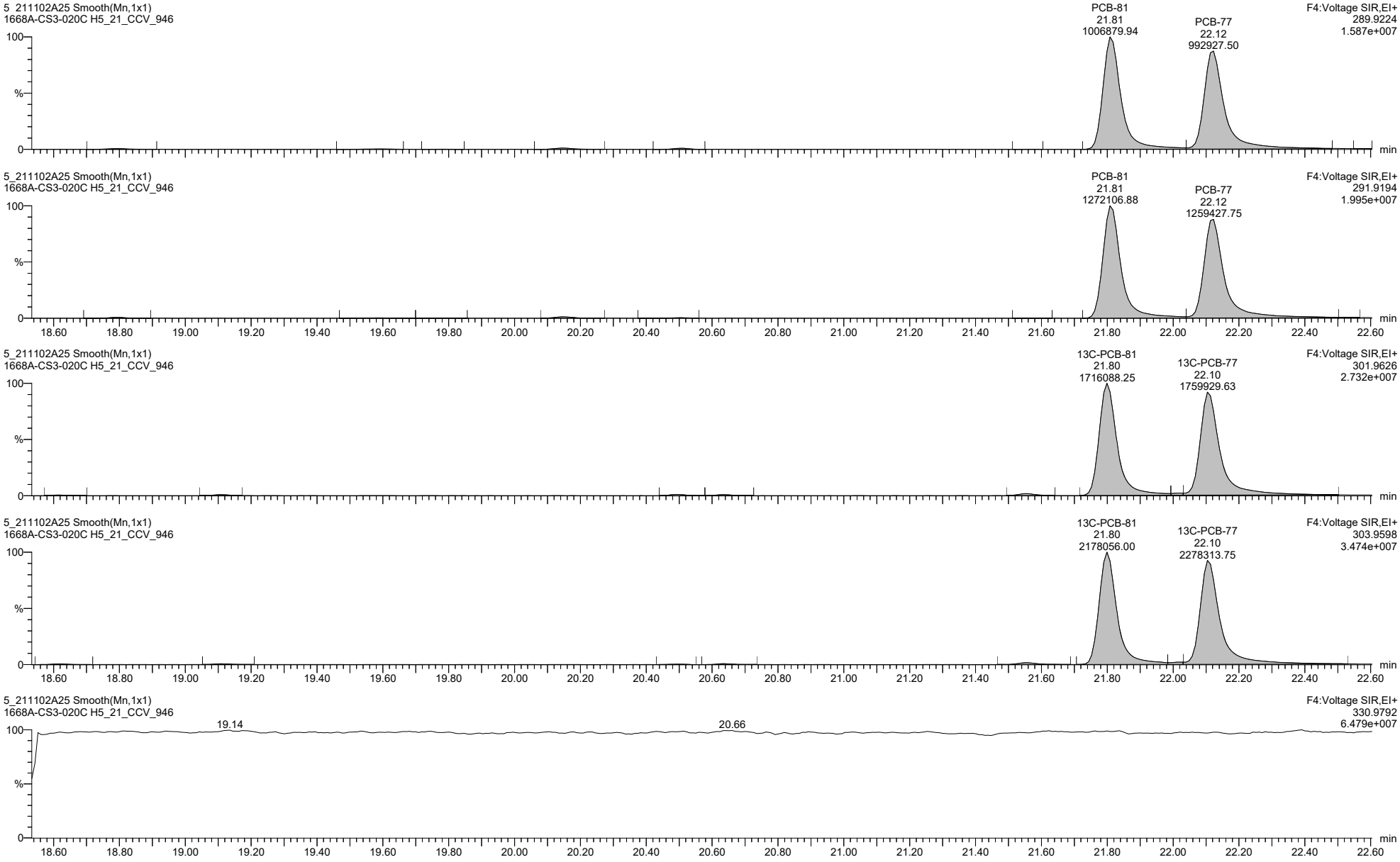

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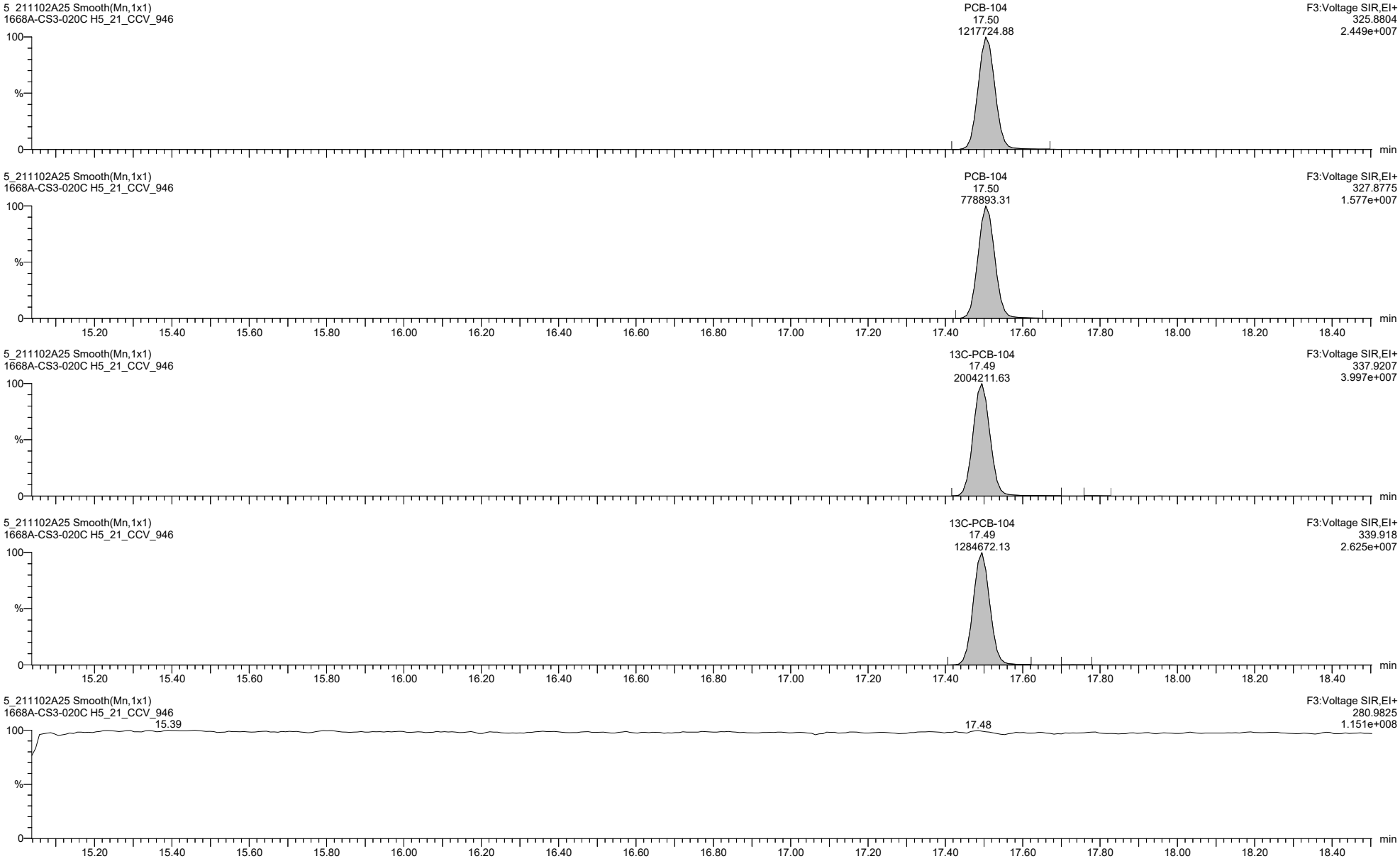

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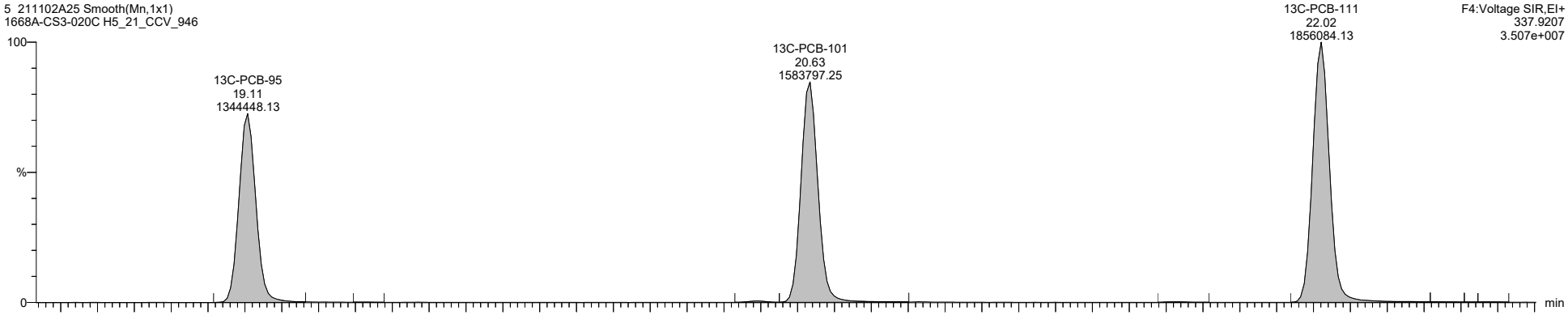

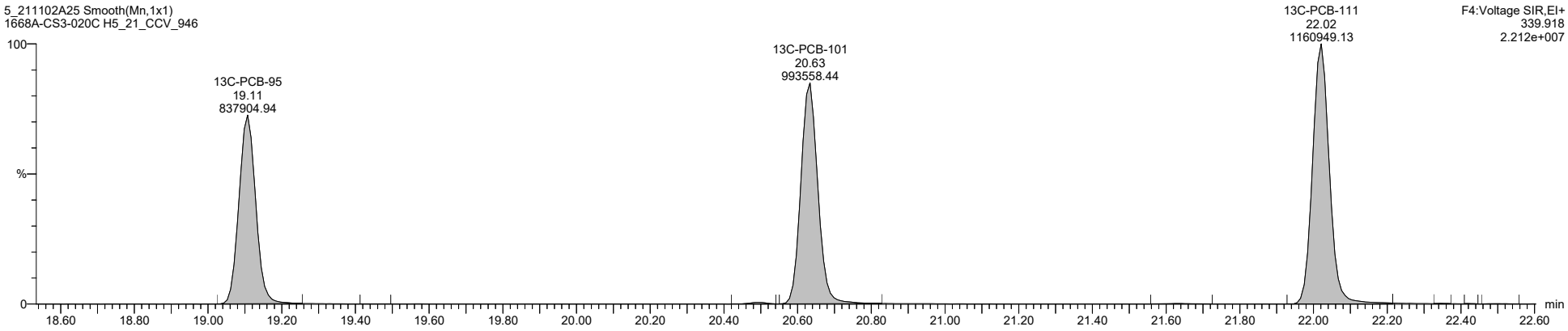

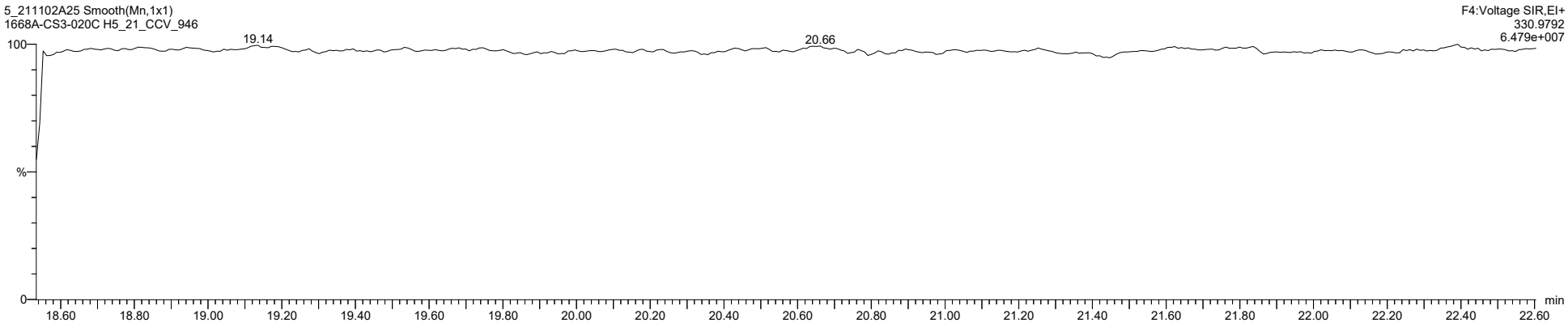

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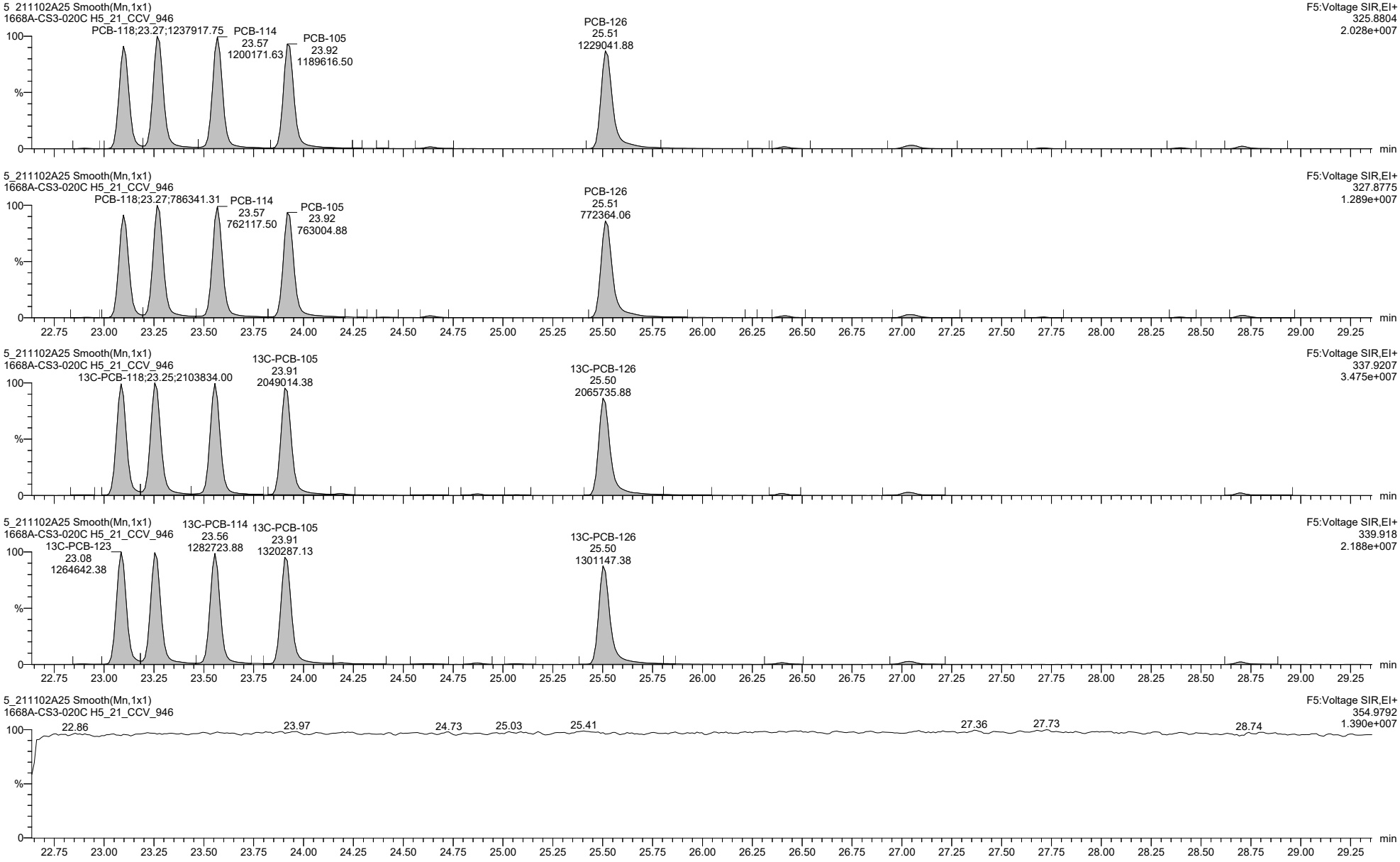

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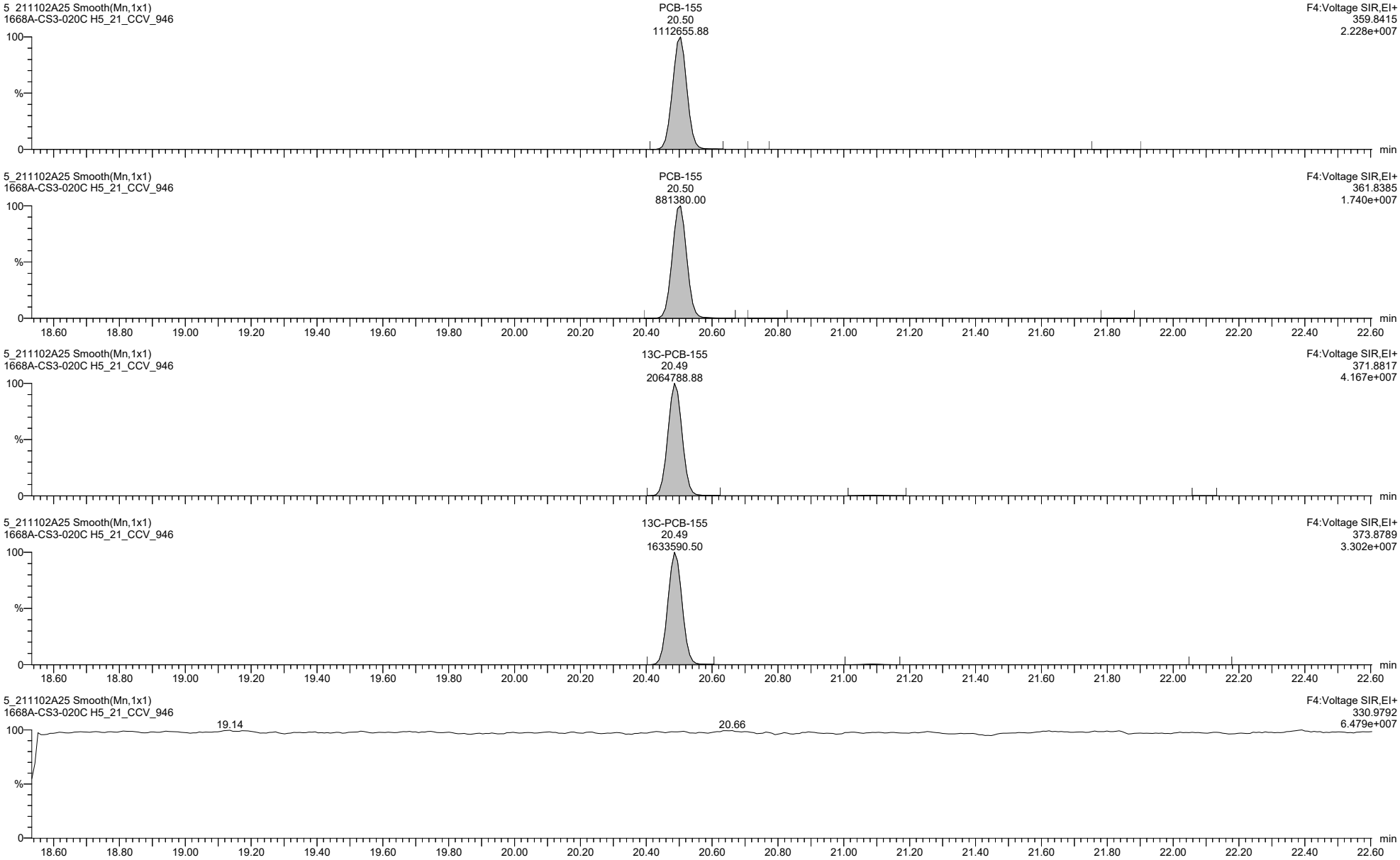

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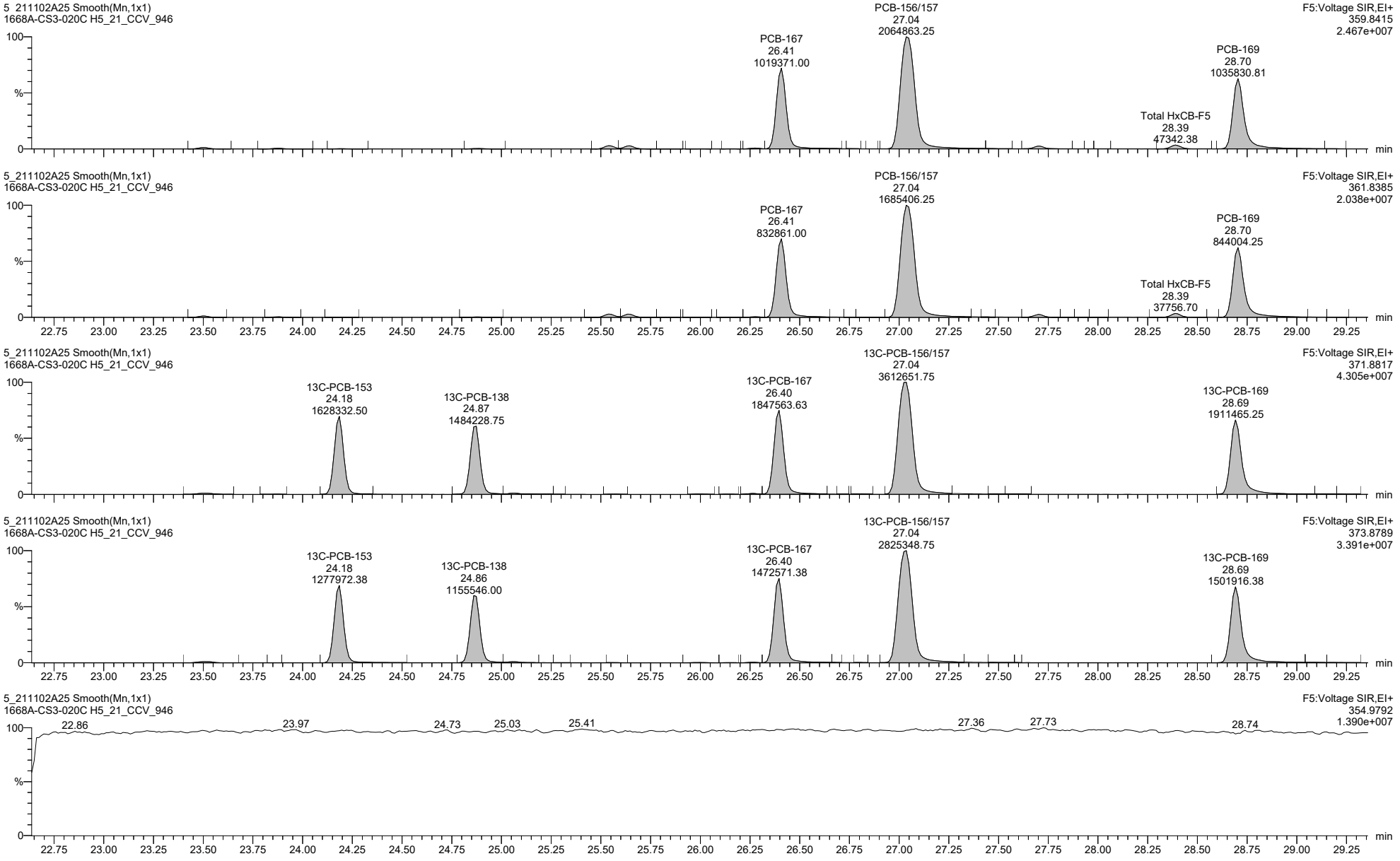

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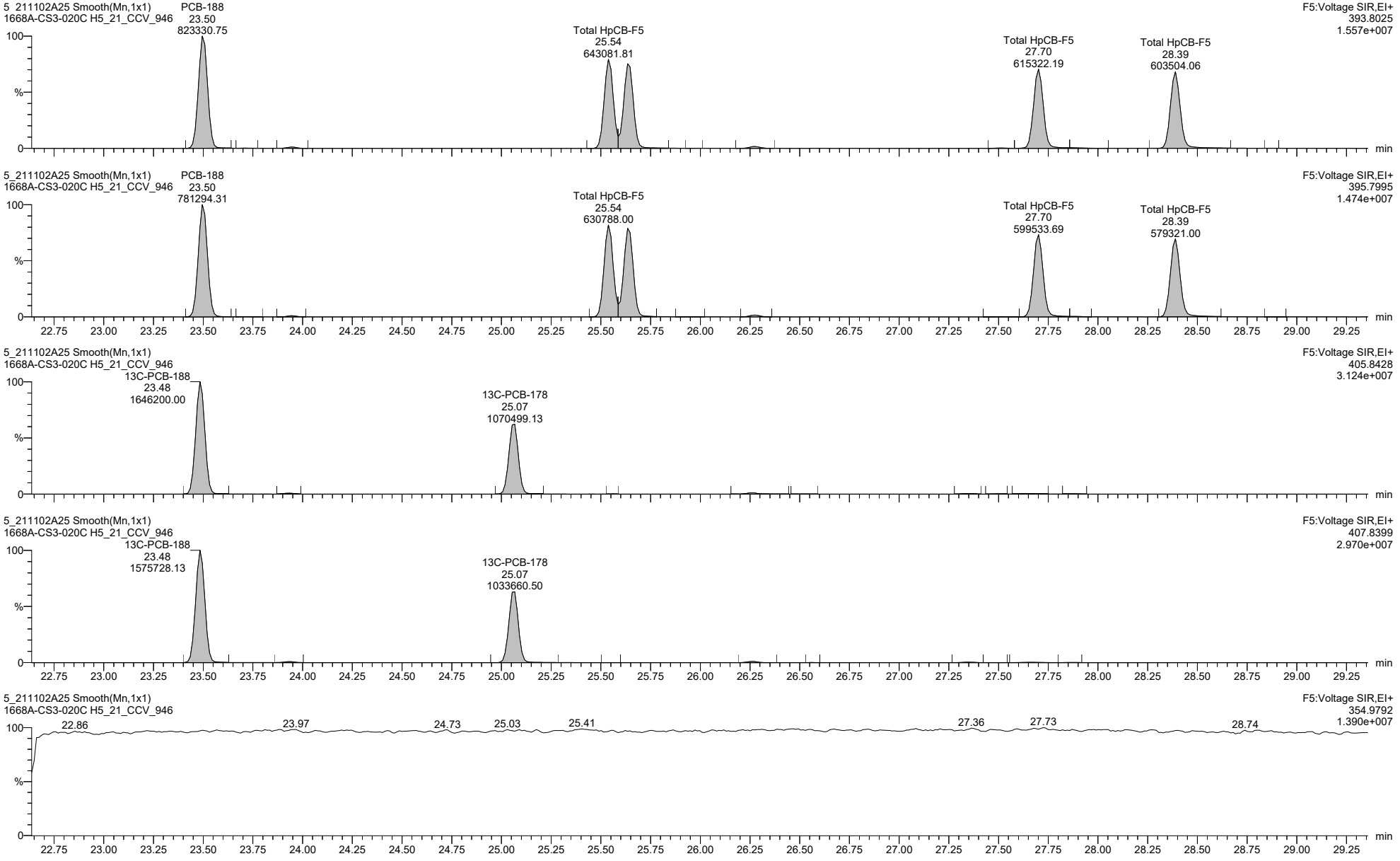

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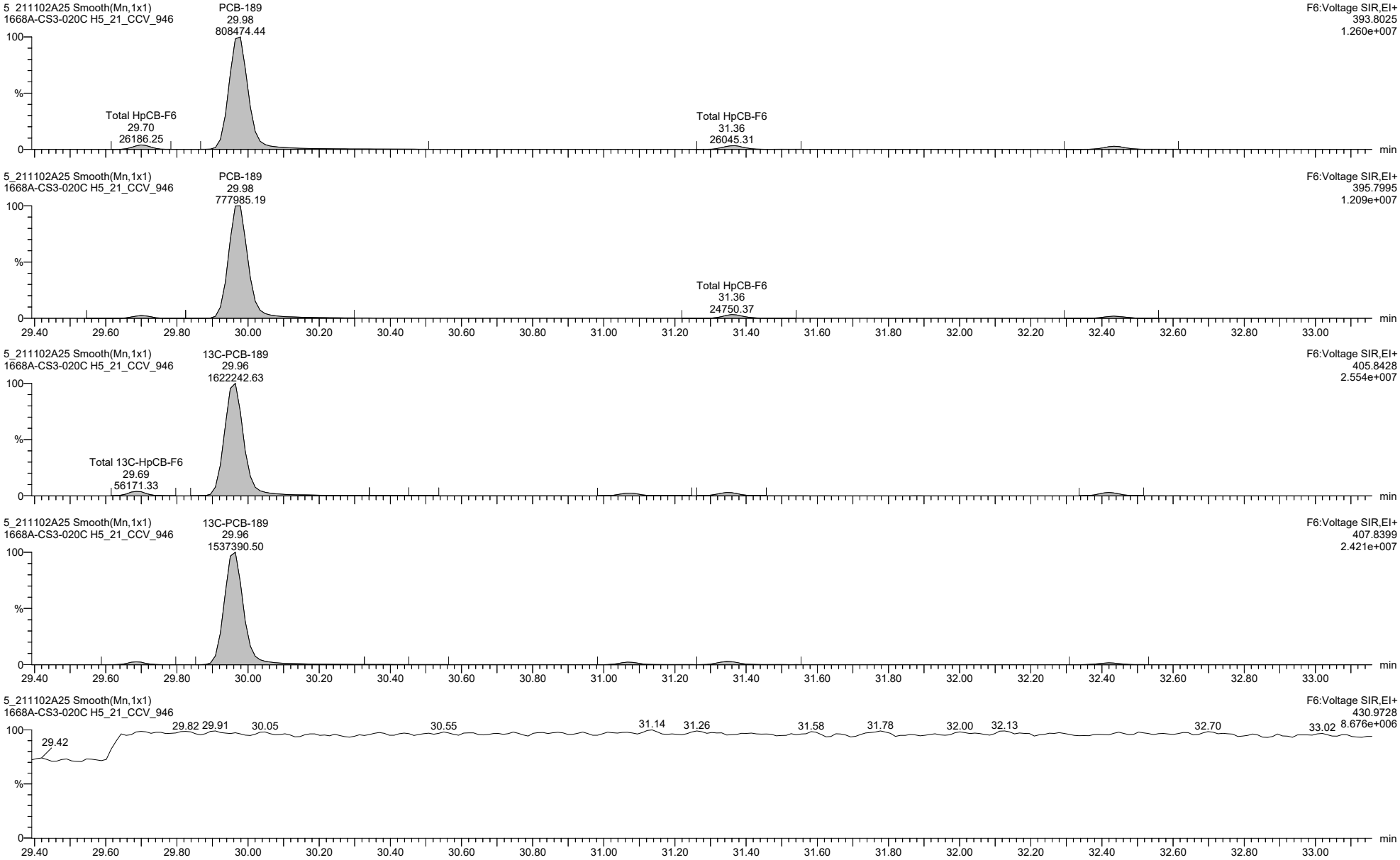

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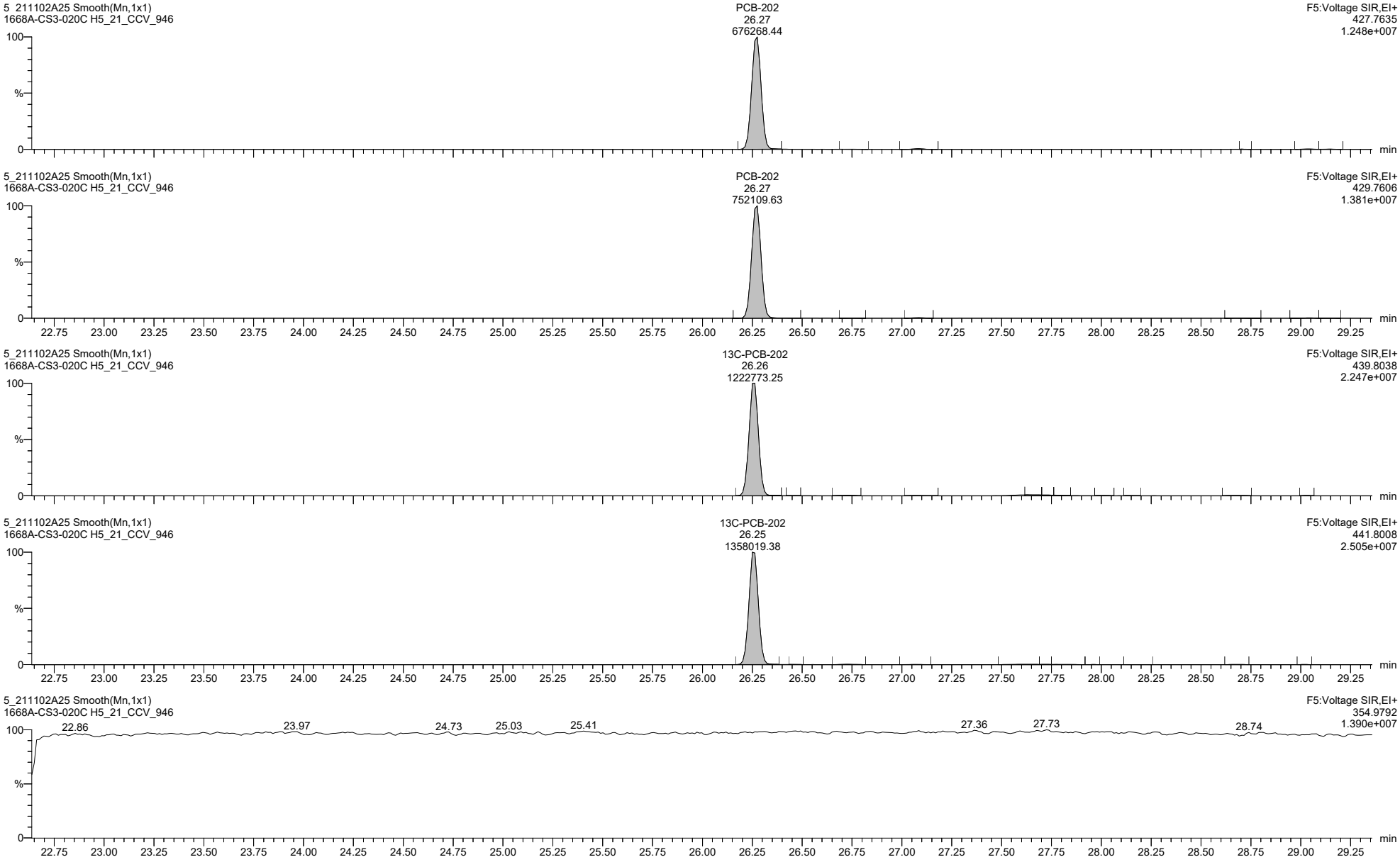

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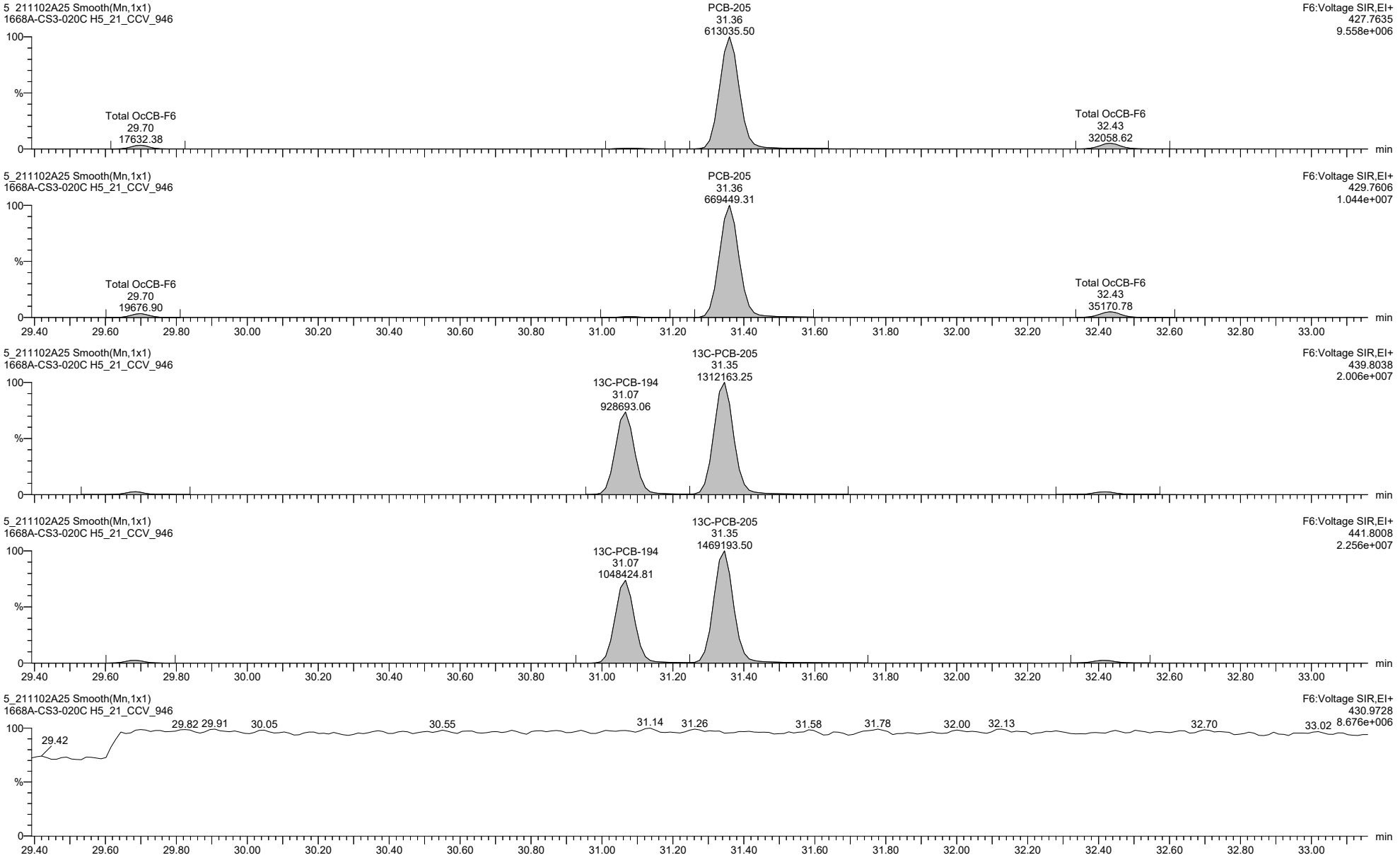

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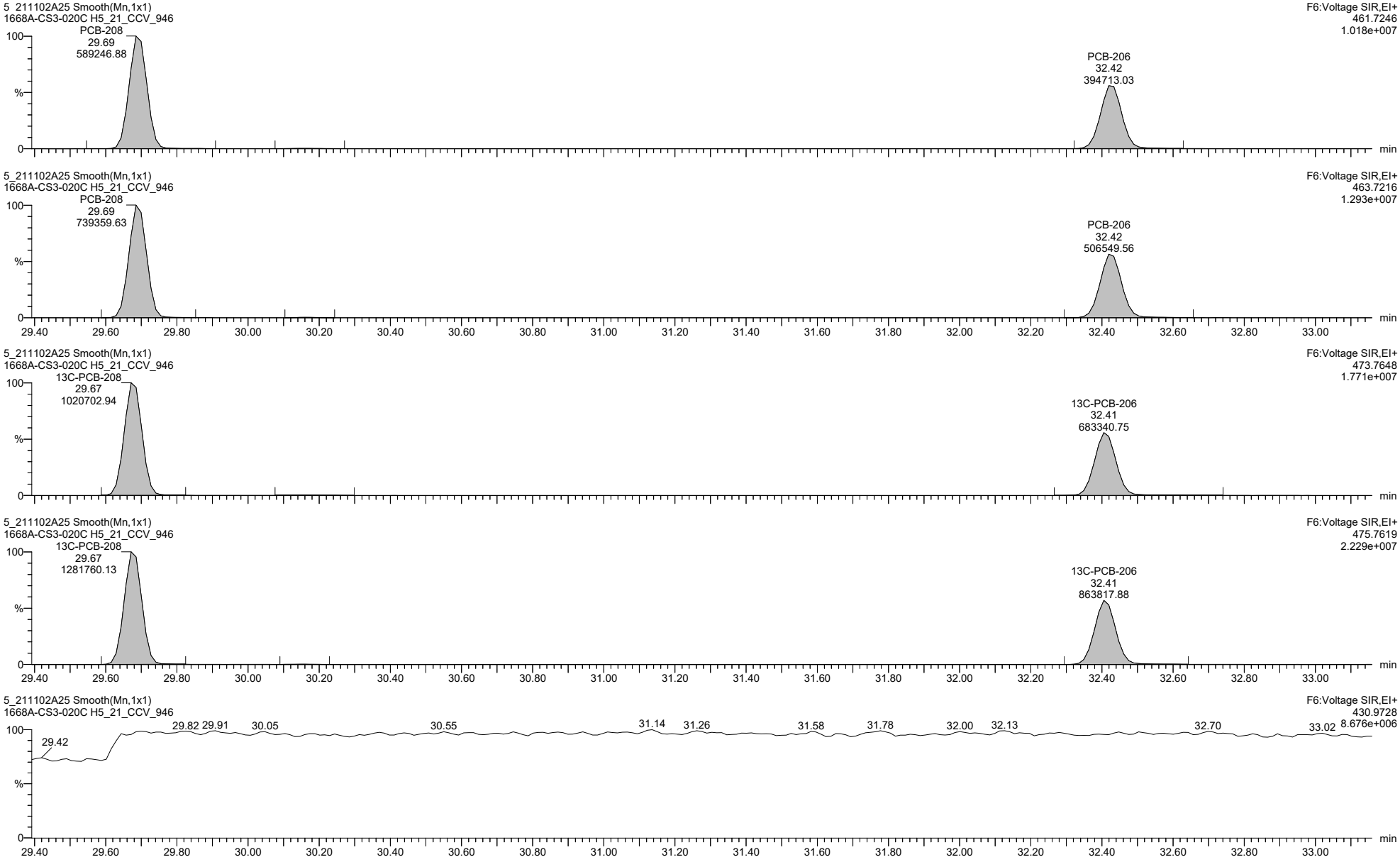
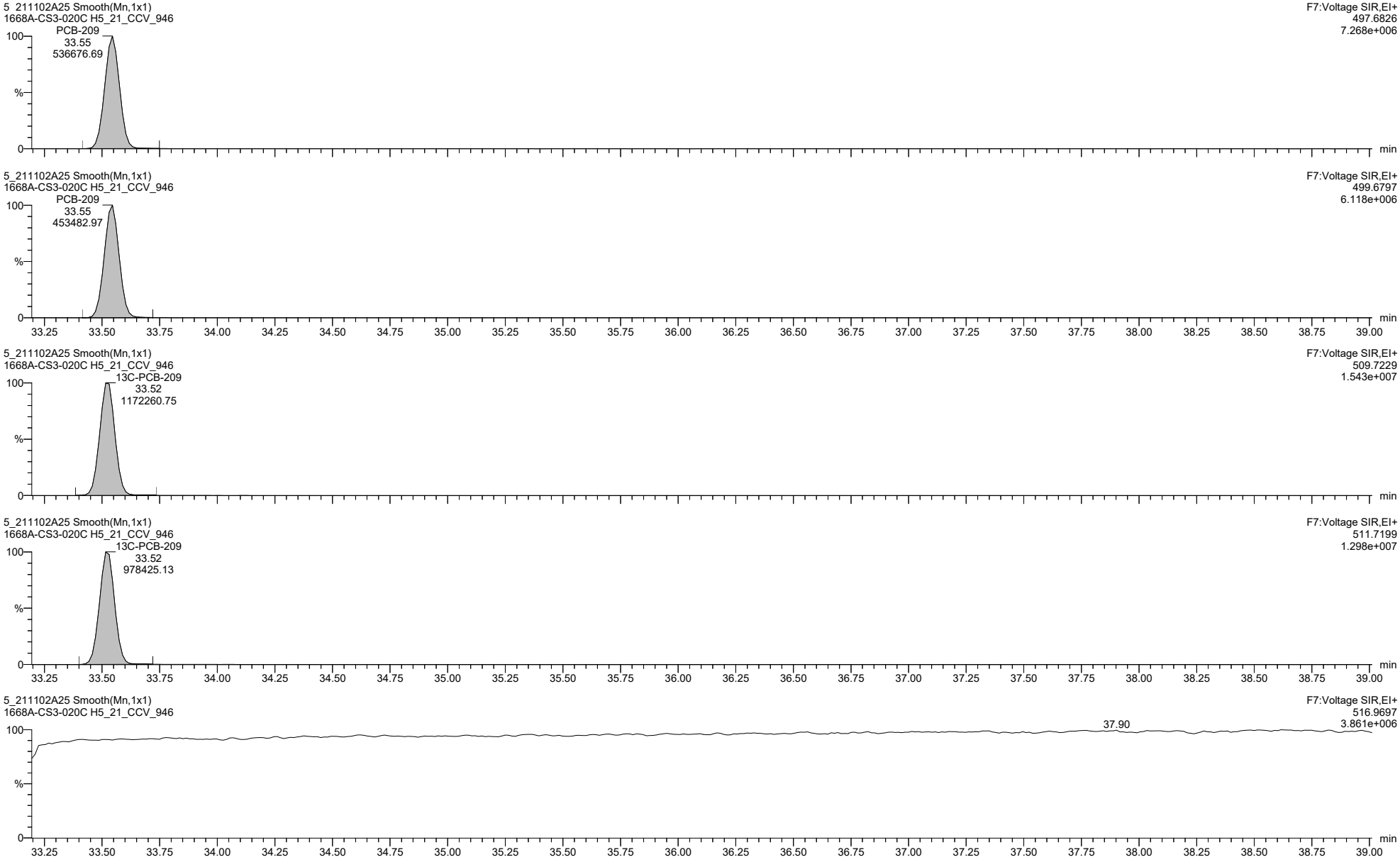


Name: 5_211102A25, Date: 03-Nov-2021, Time: 02:55:26, ID: H5_21_CCV_946, Description: 1668A-CS3-020C, Vial: Tray1:1



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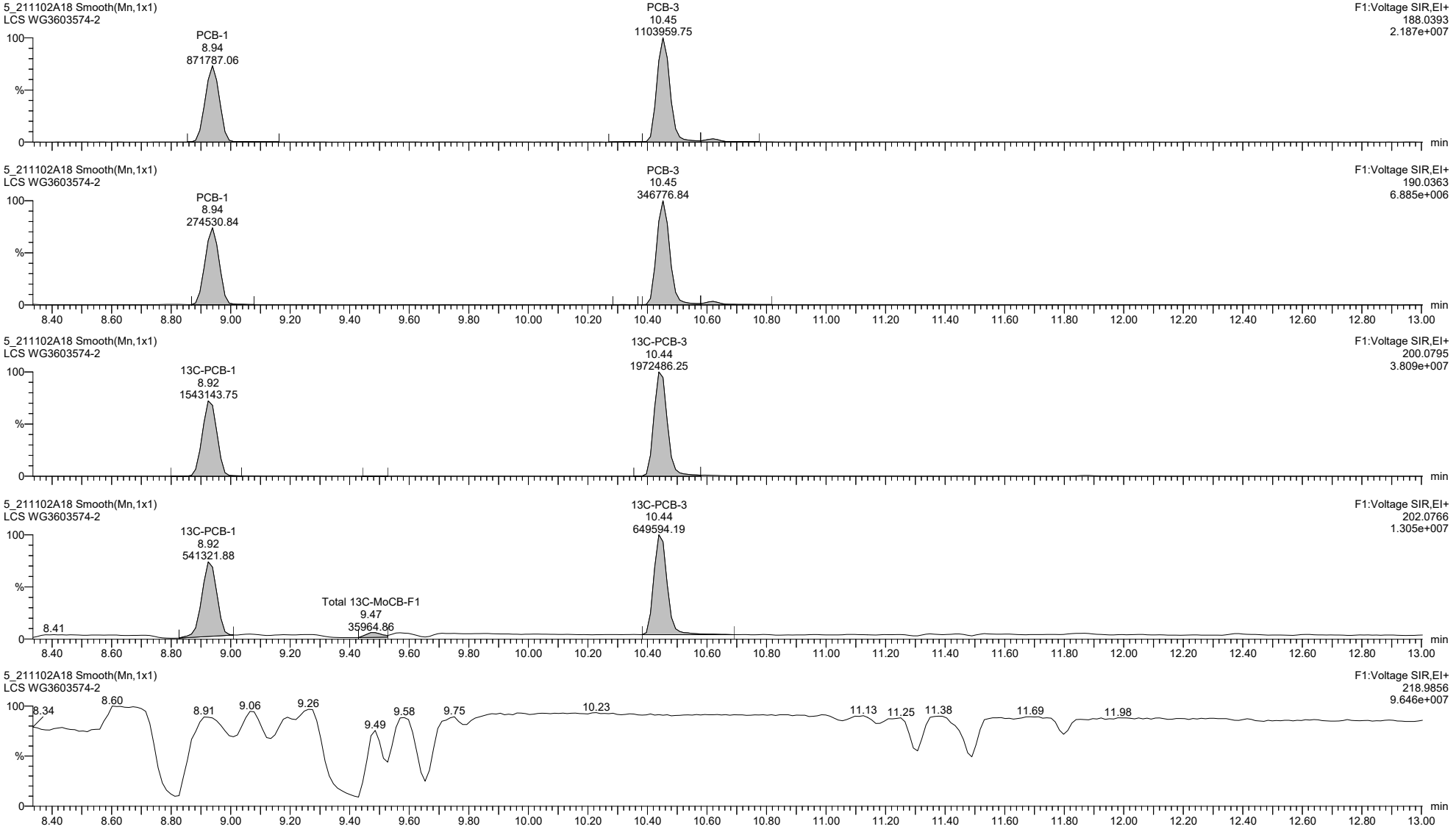
Calibration: C:\MassLynx\PCB.PRO\CurveDB\5_201202A_ICAL.cdb 02 Dec 2020 16:02:34

Name: 5_211102A18, Date: 02-Nov-2021, Time: 22:00:07, ID: WG3603574-2, Description: LCS, Vial: Tray1:14



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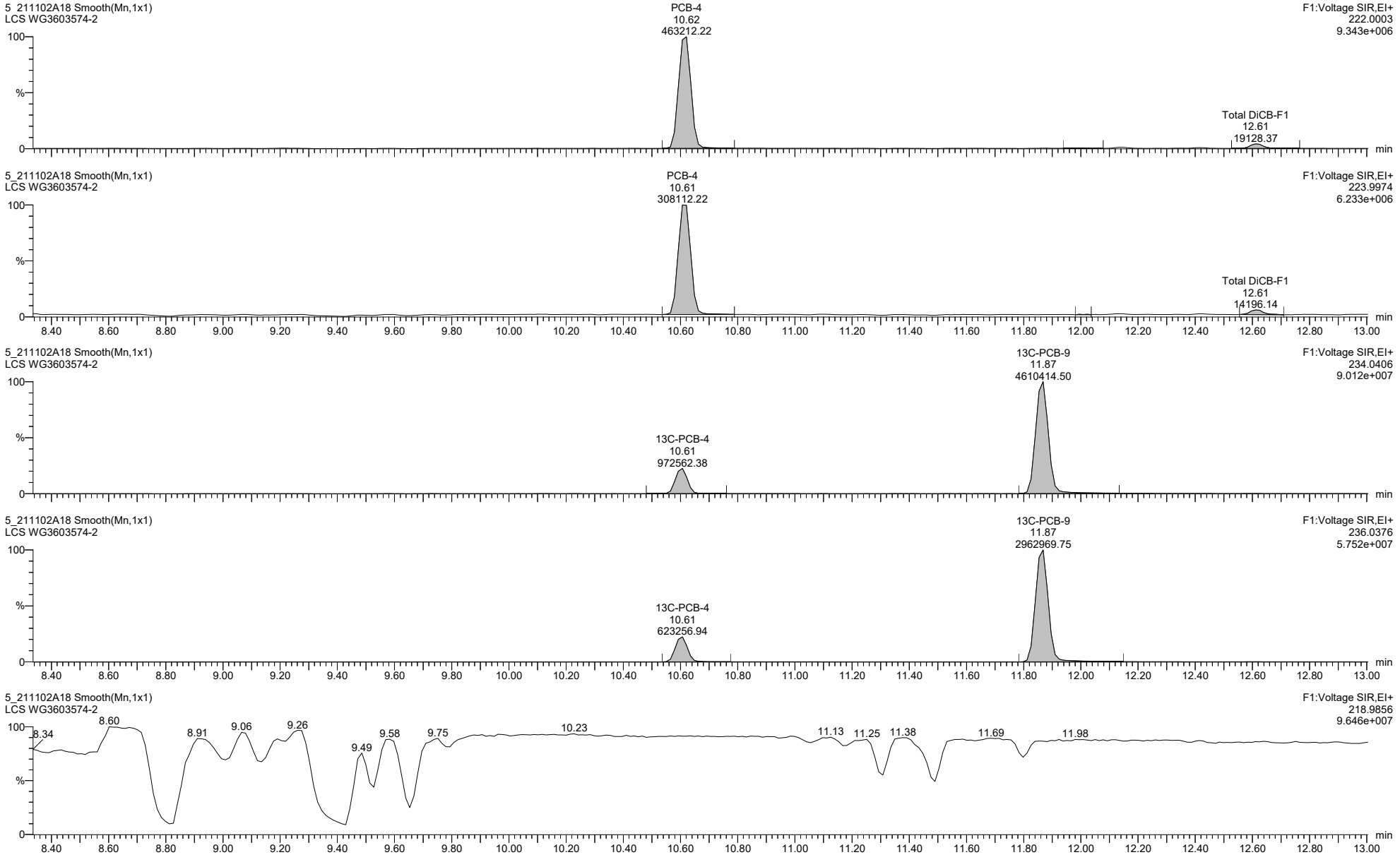

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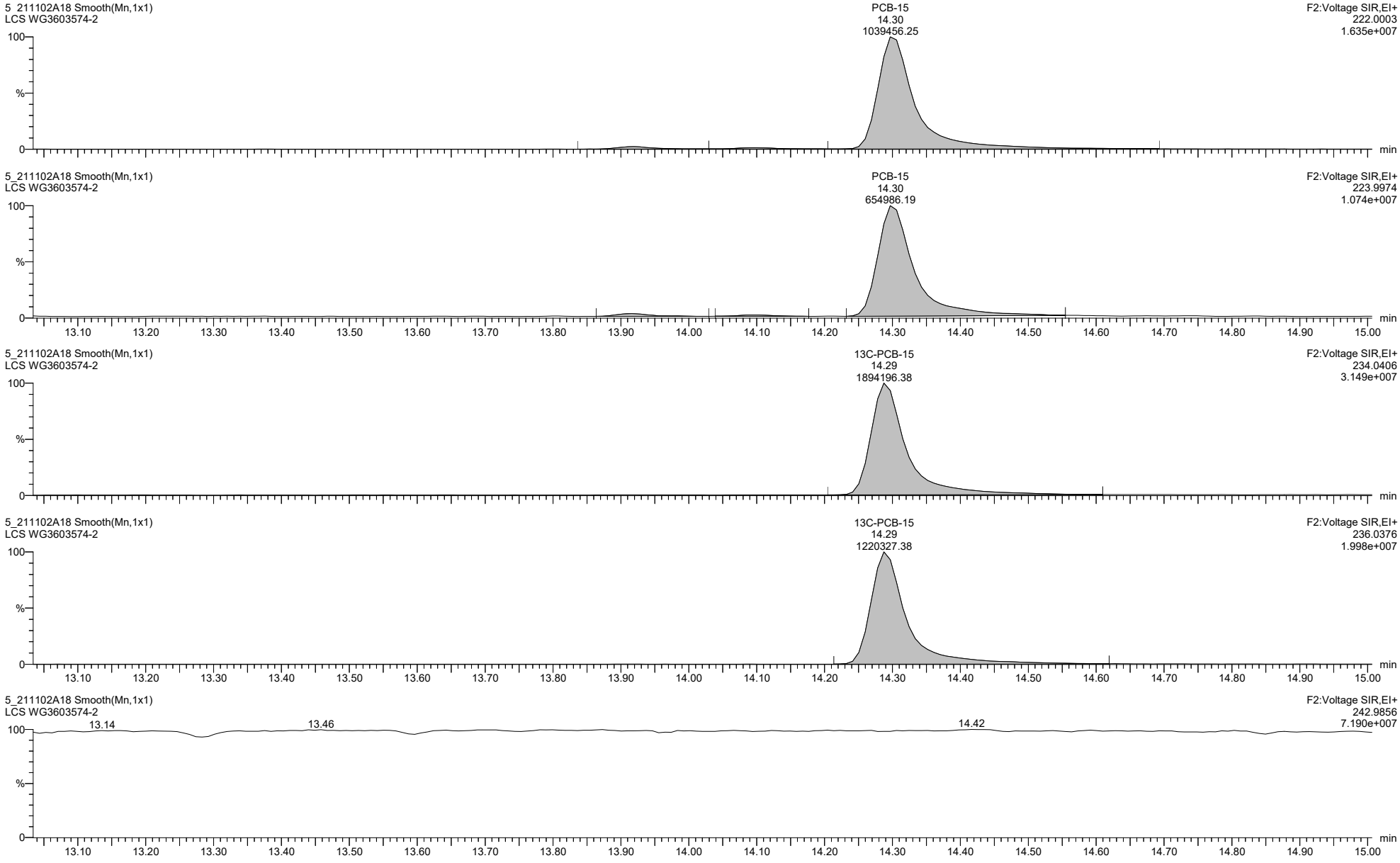

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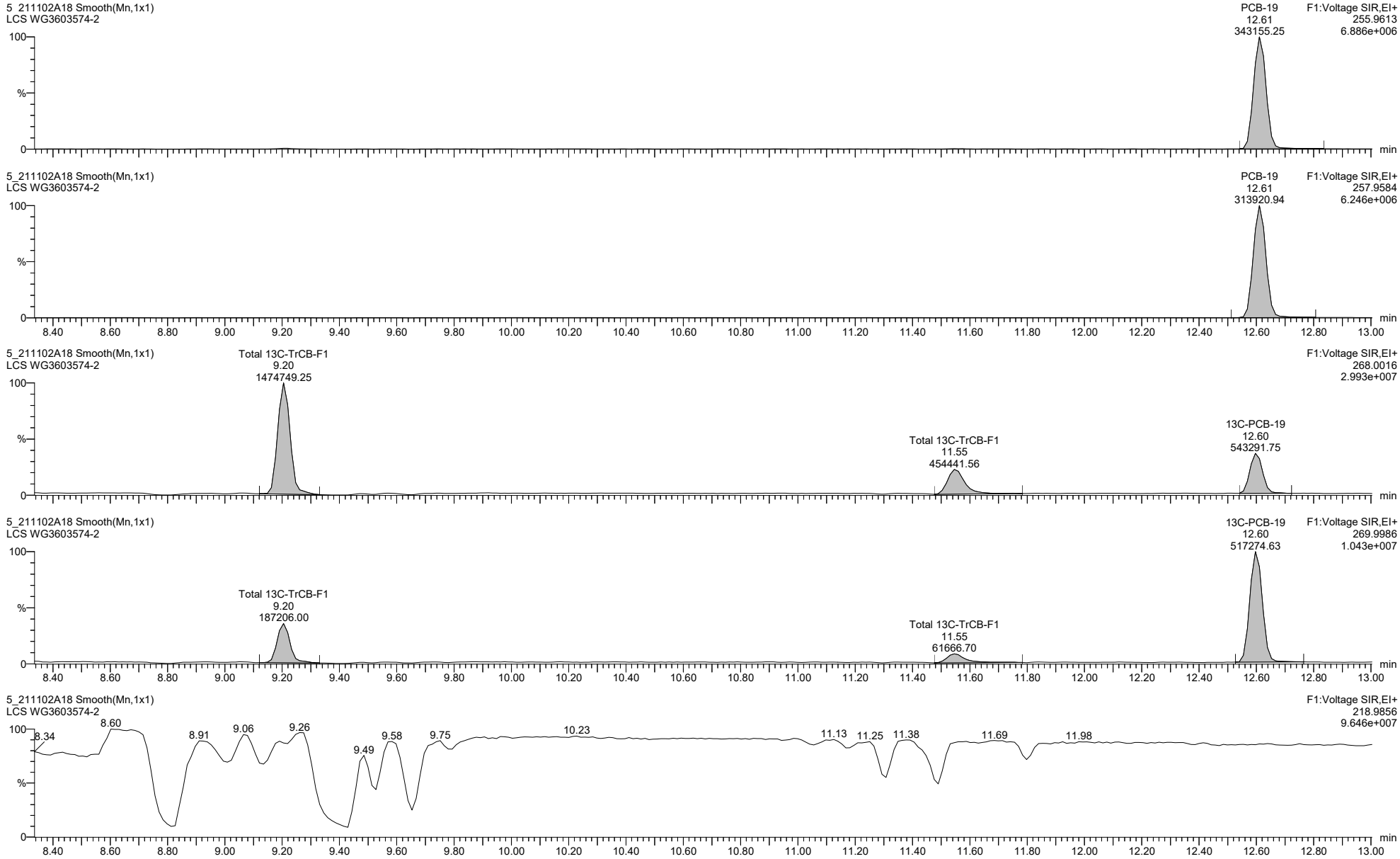

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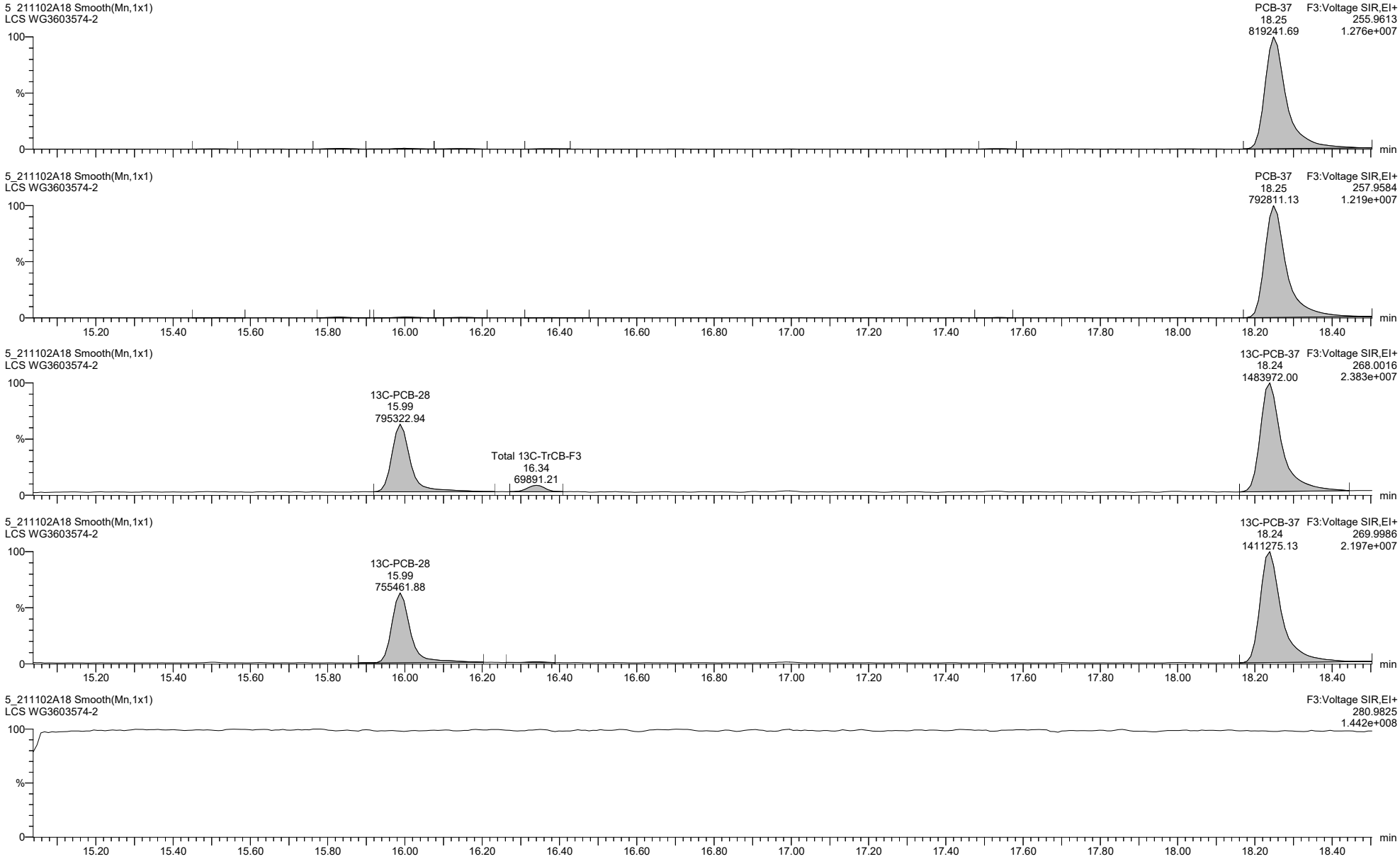

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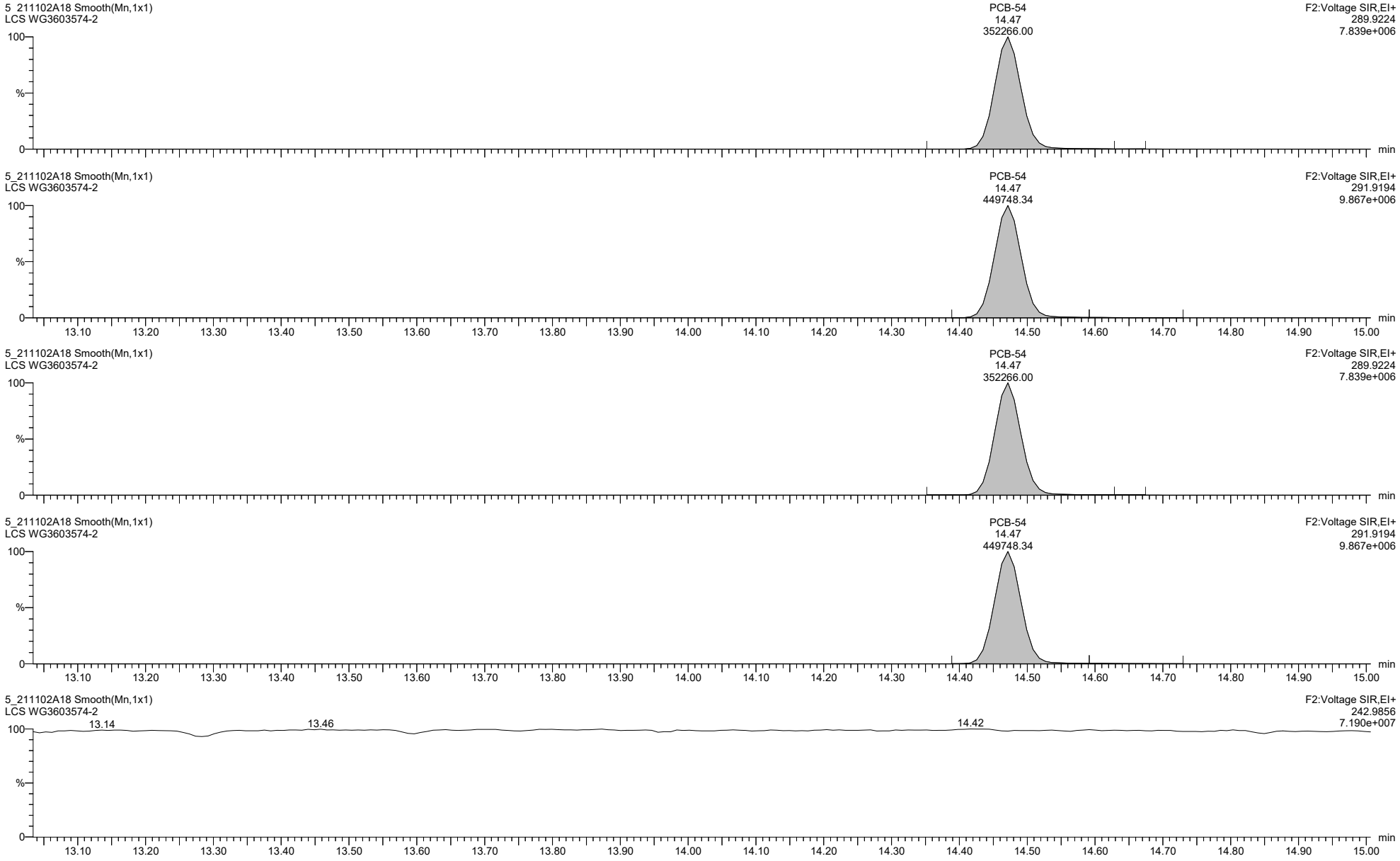

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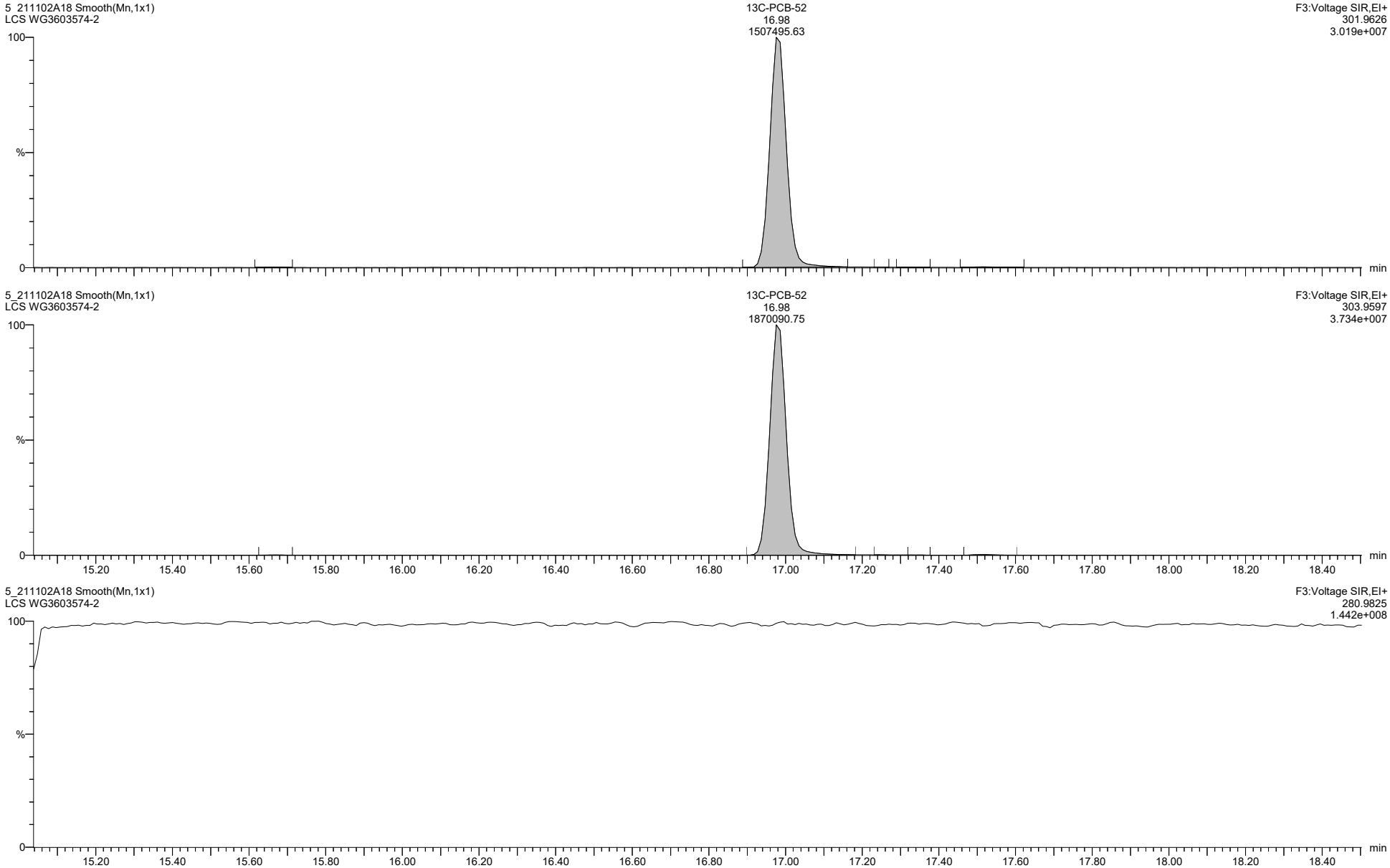

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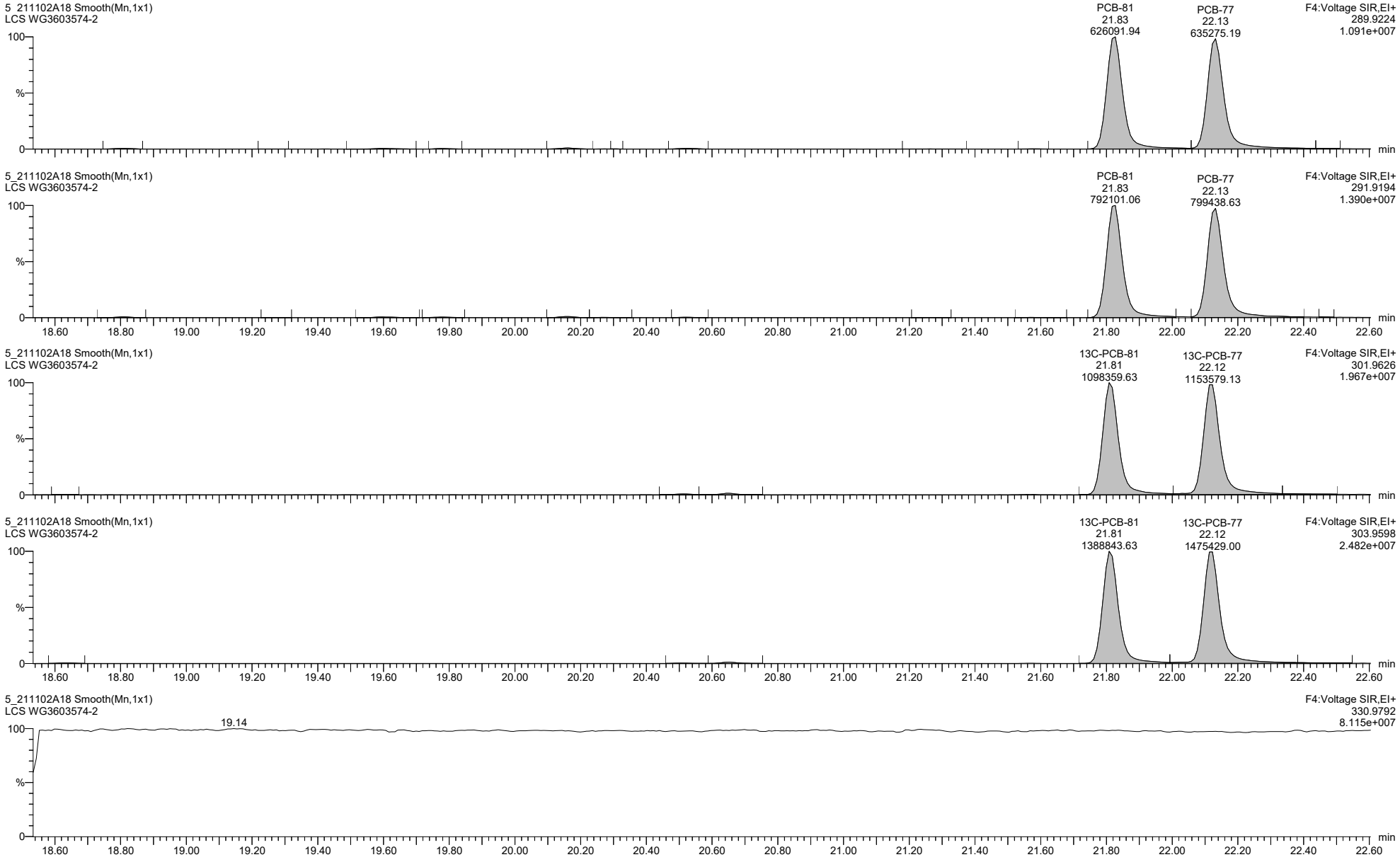

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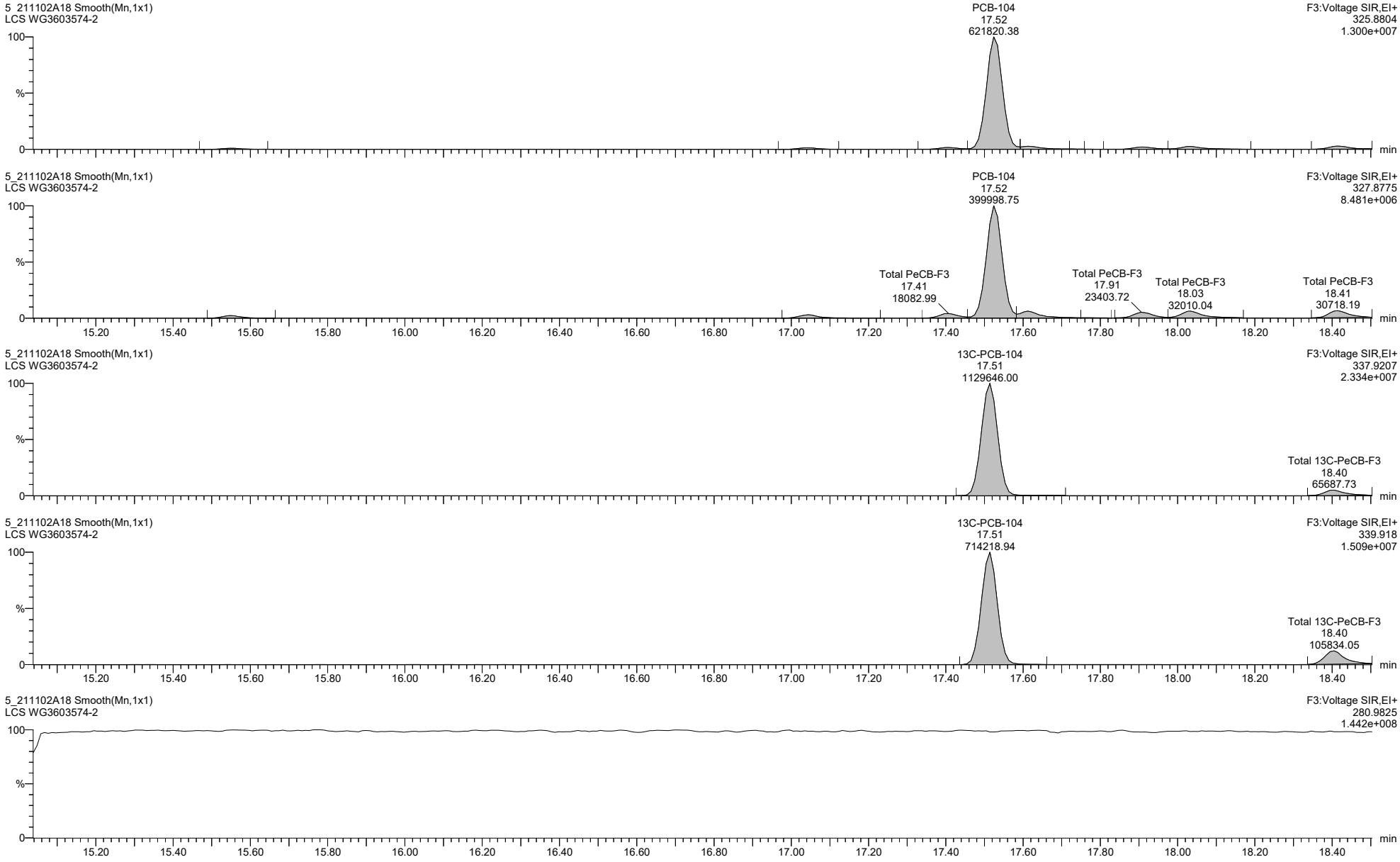

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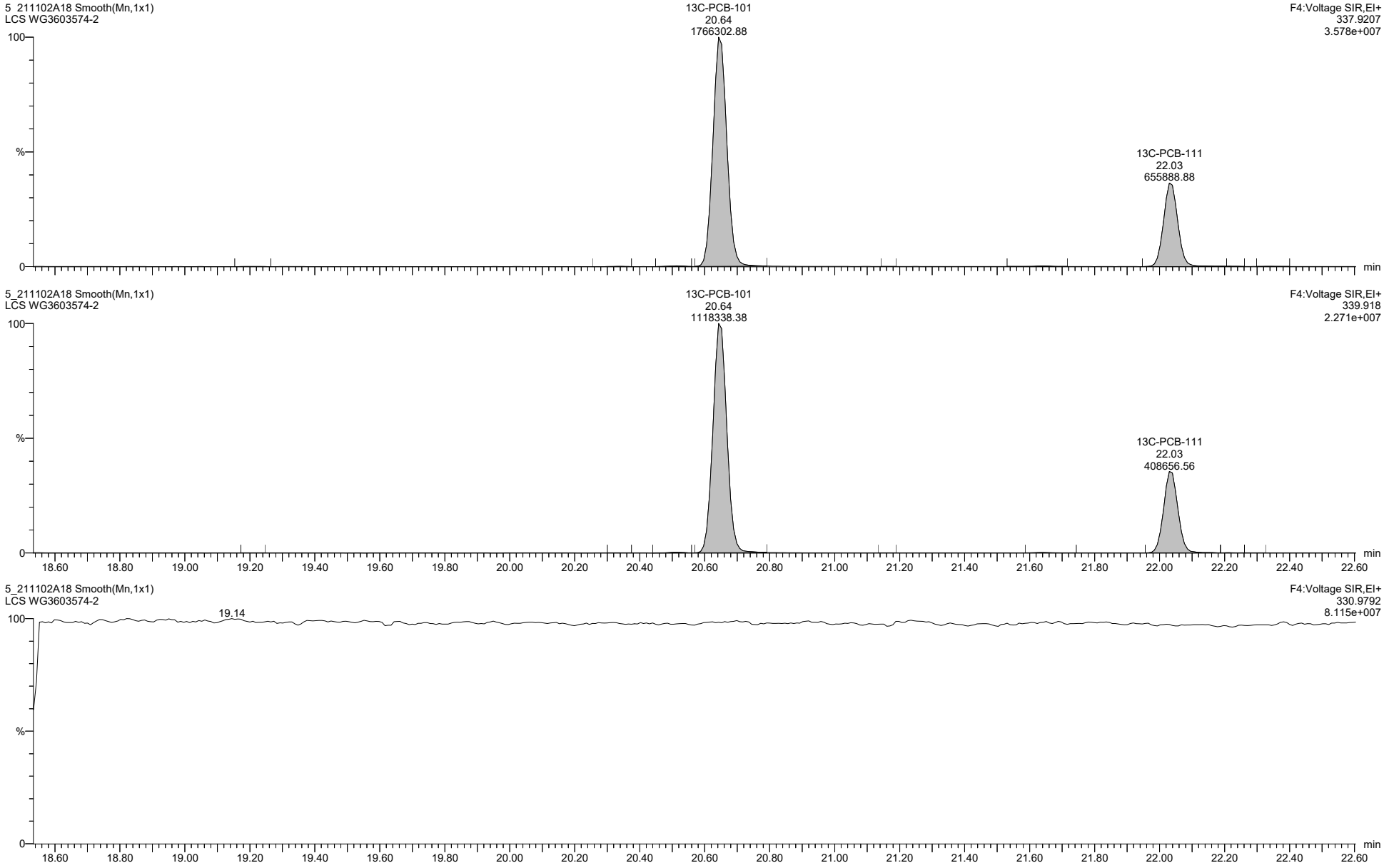

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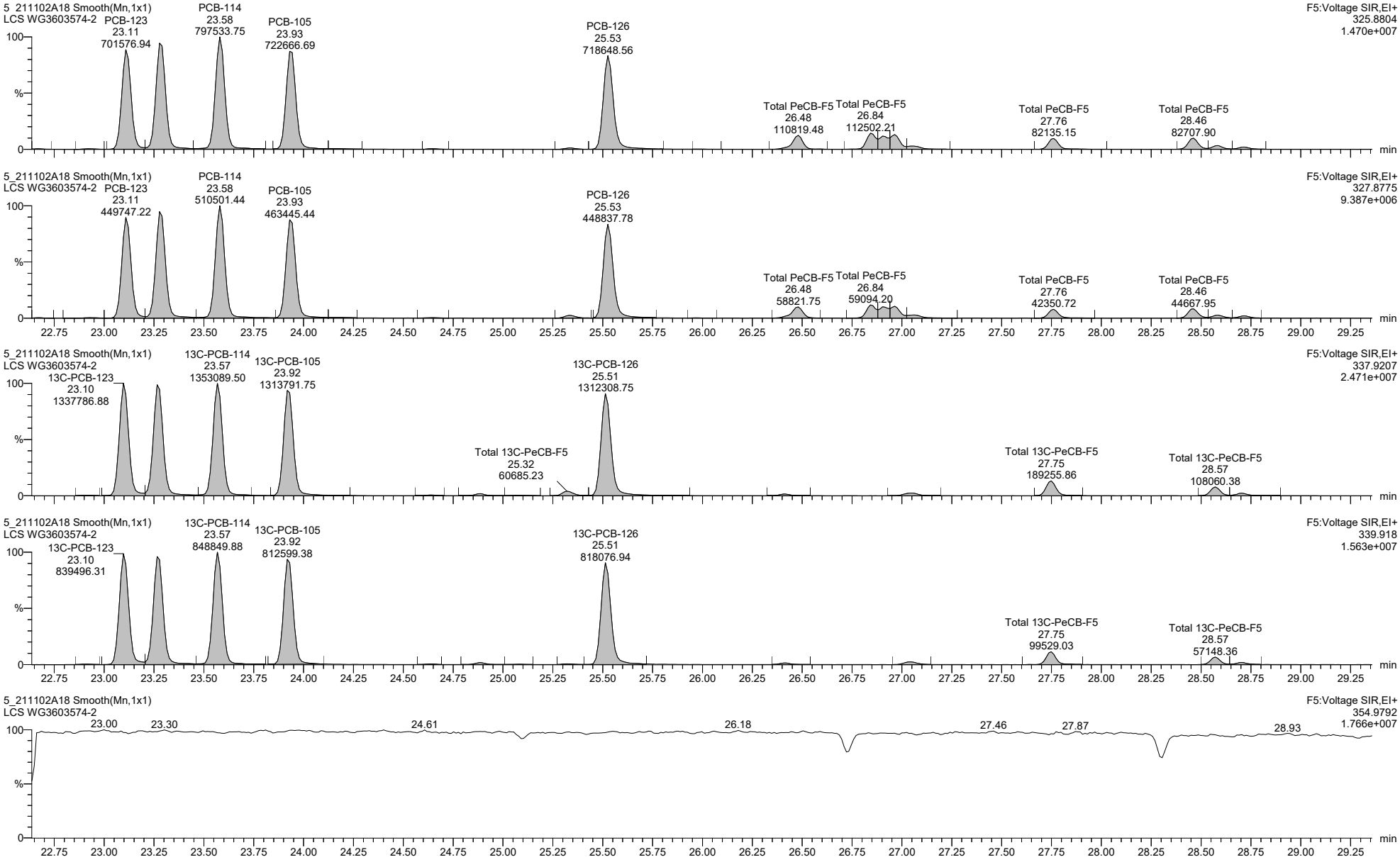

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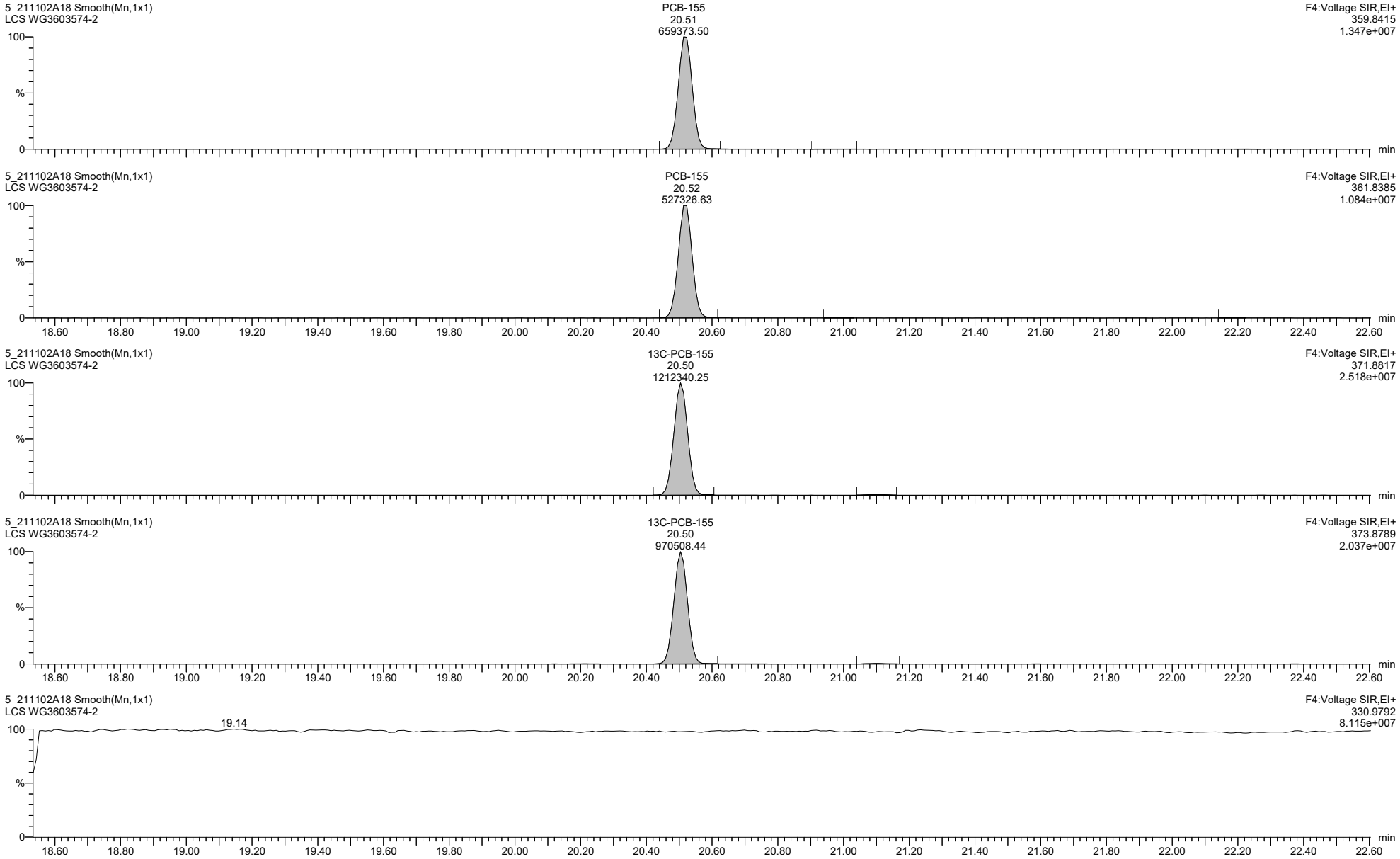
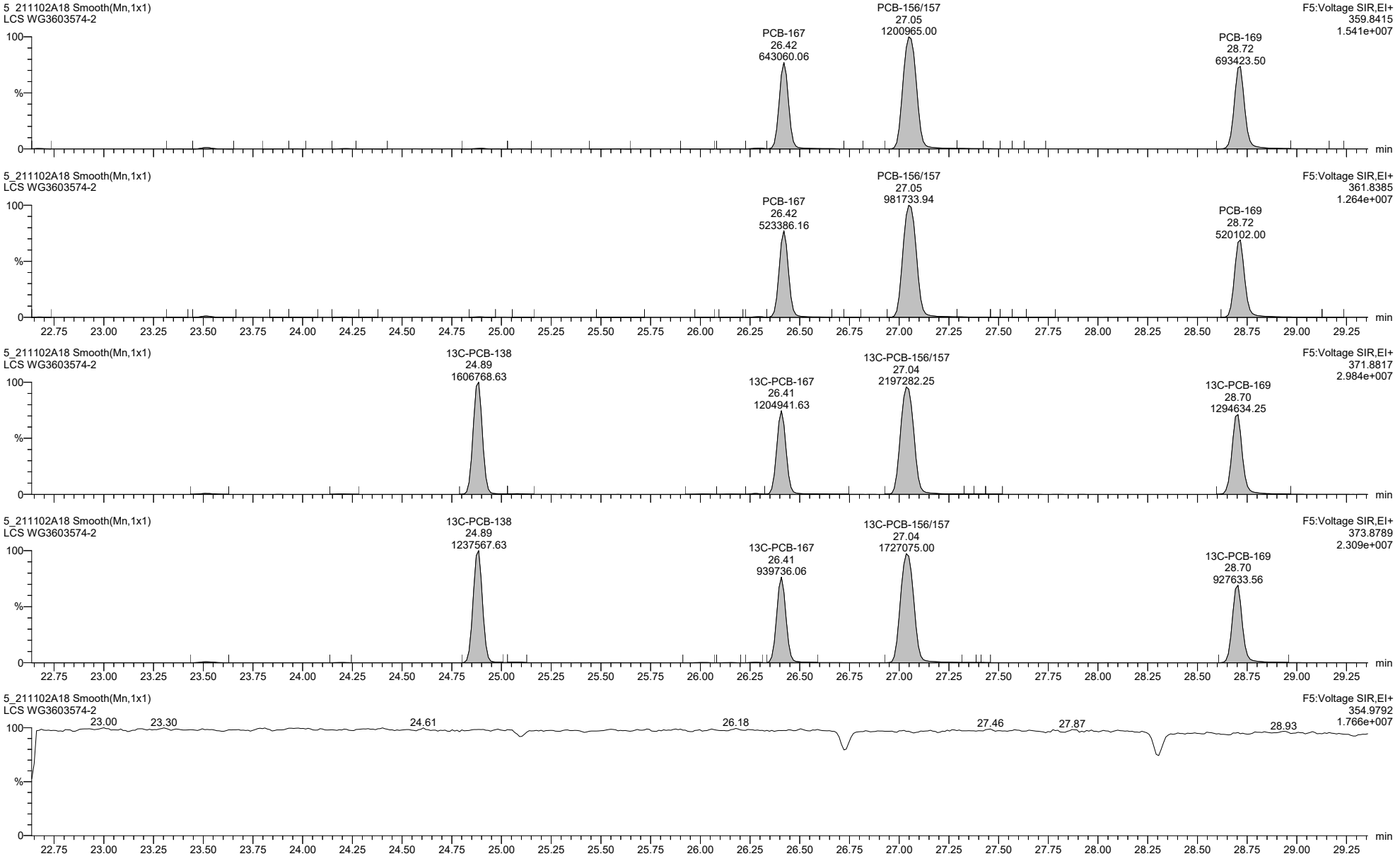


Quantify Sample Template Report **MassLynx V4.2 SCN1012**

Dataset: I:\Organics Instrument\HIGHRES GCMS Completed Results Files\HR-5\5-211102A-QC1.qld

Last Altered: Wednesday, November 03, 2021 07:57:39 Eastern Daylight Time
Printed: Monday, November 08, 2021 16:14:01 Eastern Standard Time

Name: 5_211102A18, Date: 02-Nov-2021, Time: 22:00:07, ID: WG3603574-2, Description: LCS, Vial: Tray1:14



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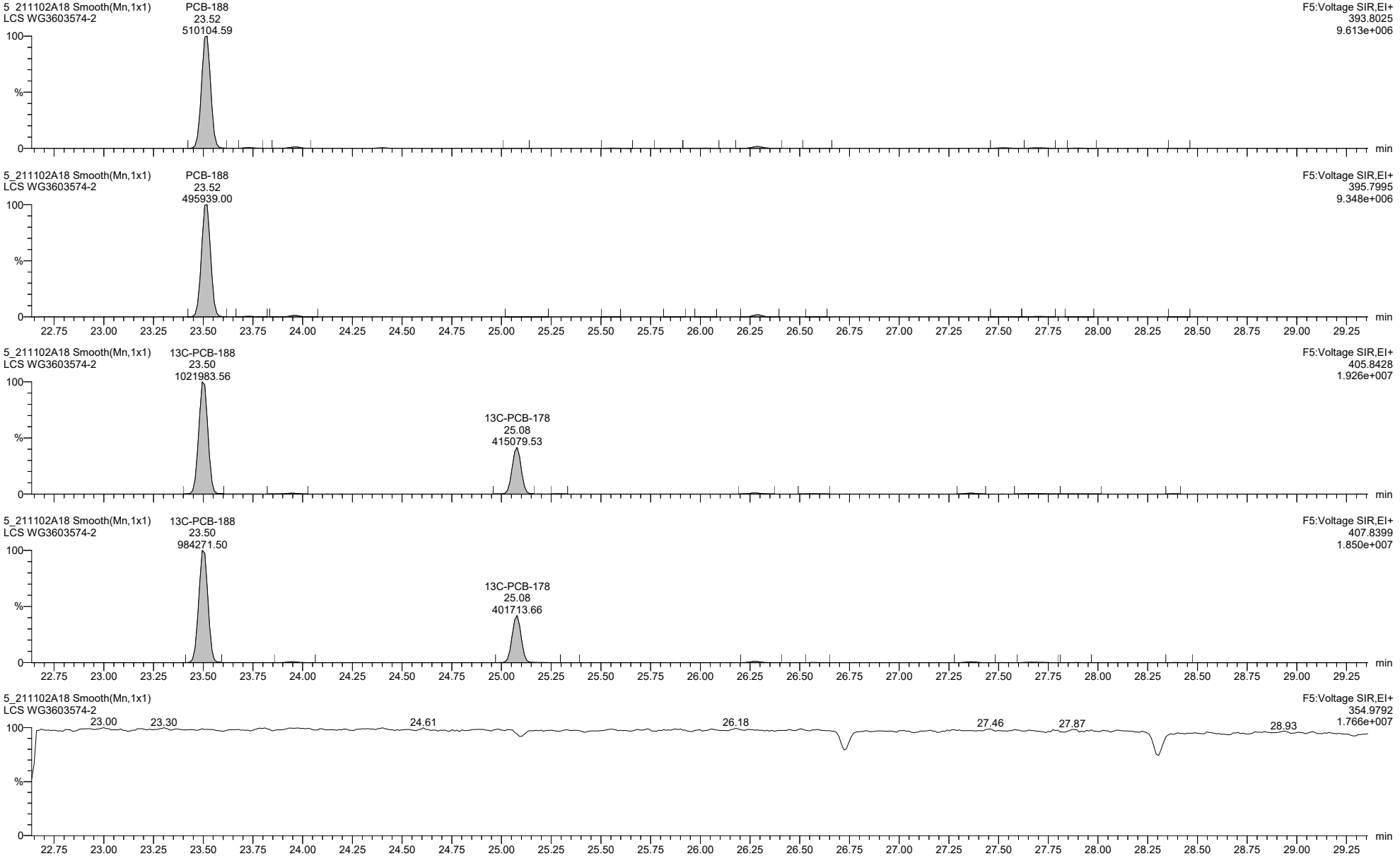

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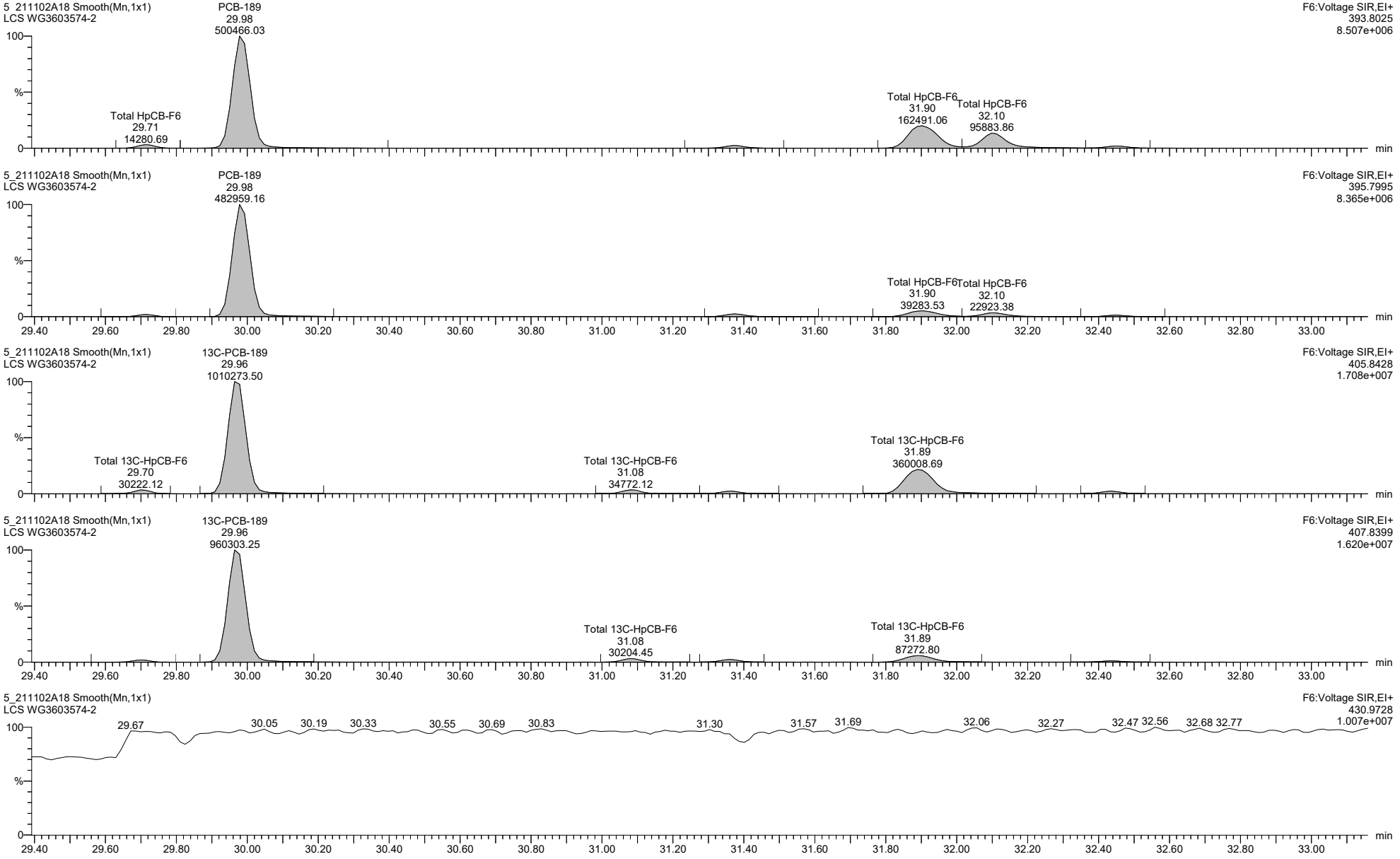

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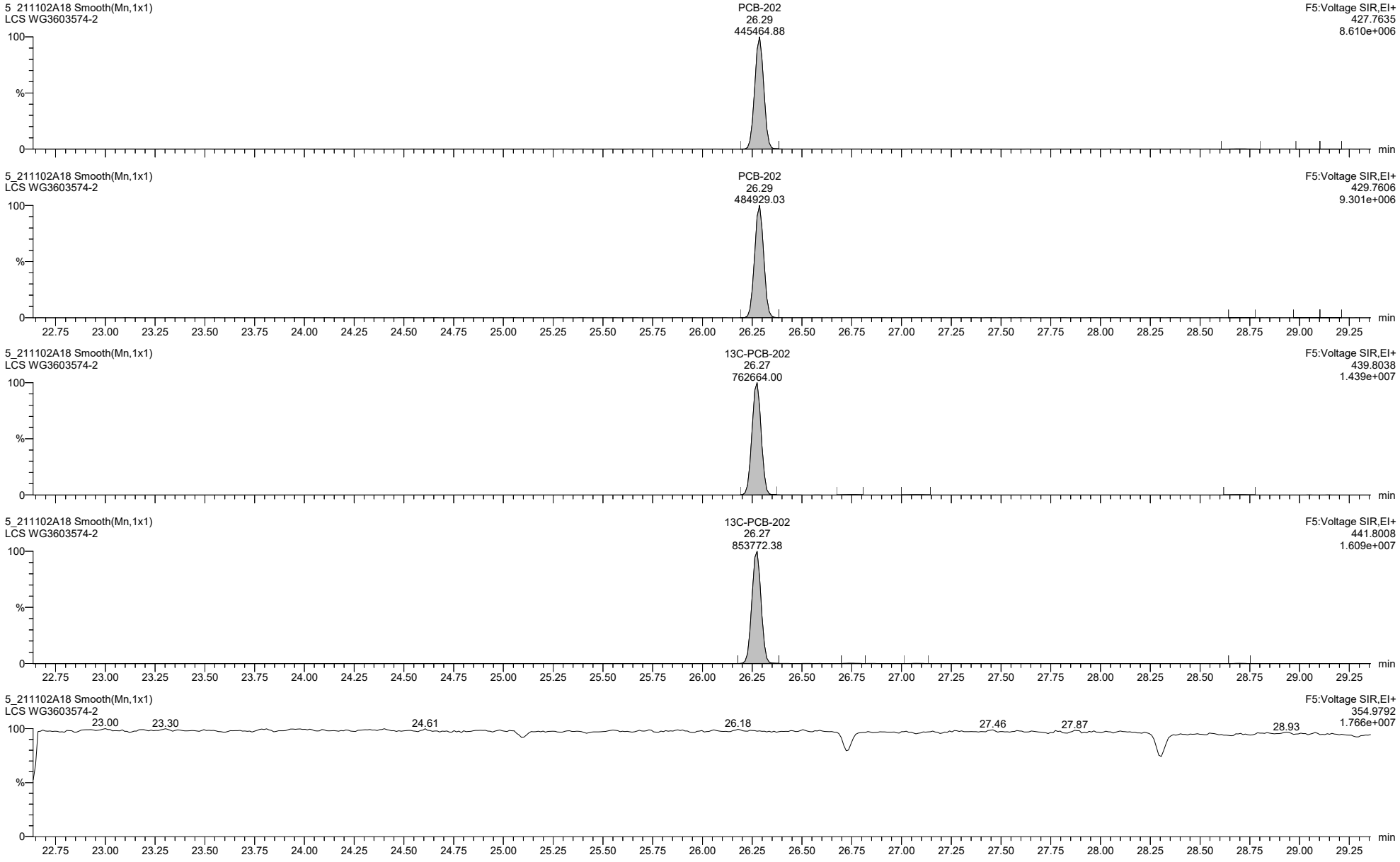
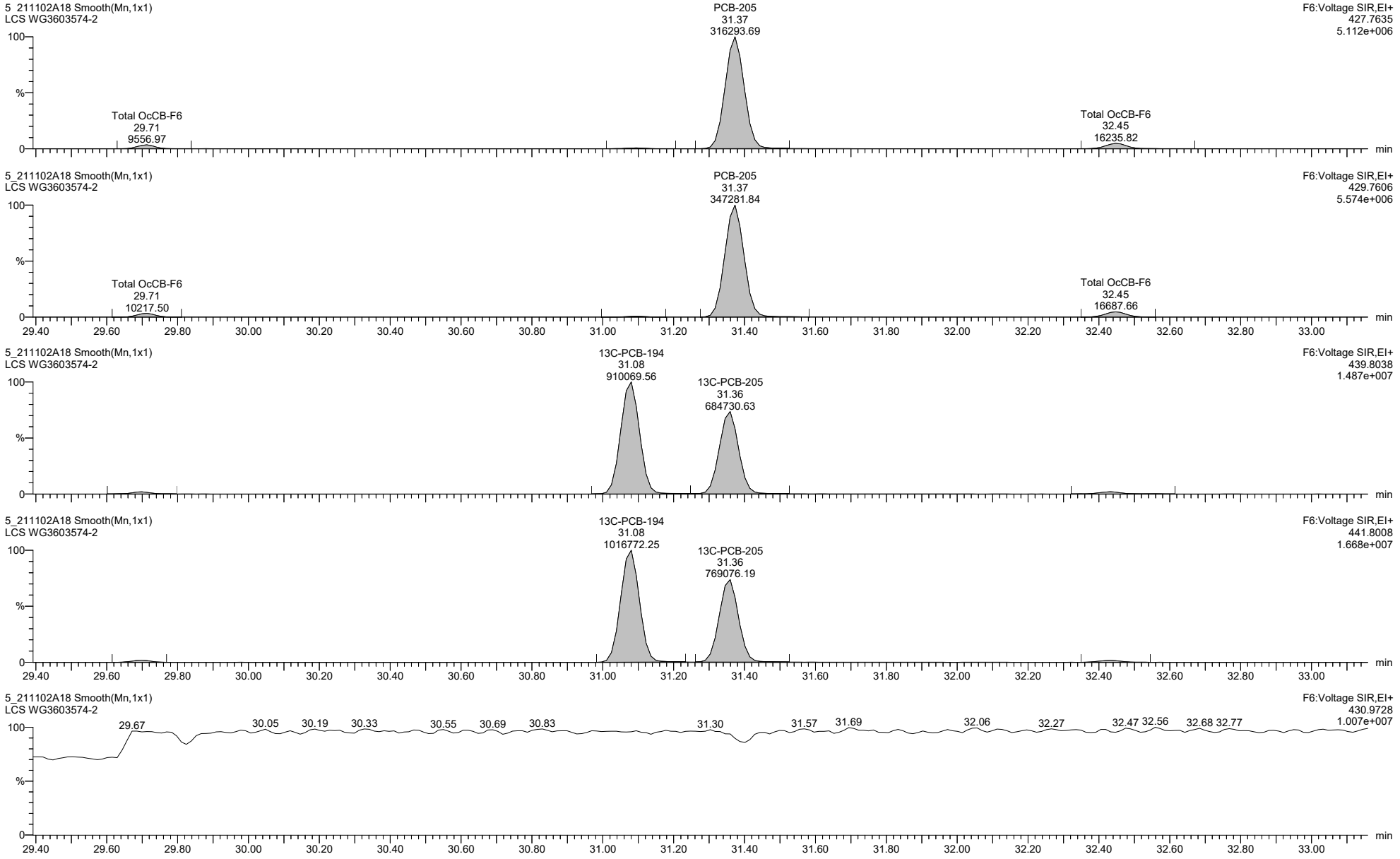


Name: 5_211102A18, Date: 02-Nov-2021, Time: 22:00:07, ID: WG3603574-2, Description: LCS, Vial: Tray1:14



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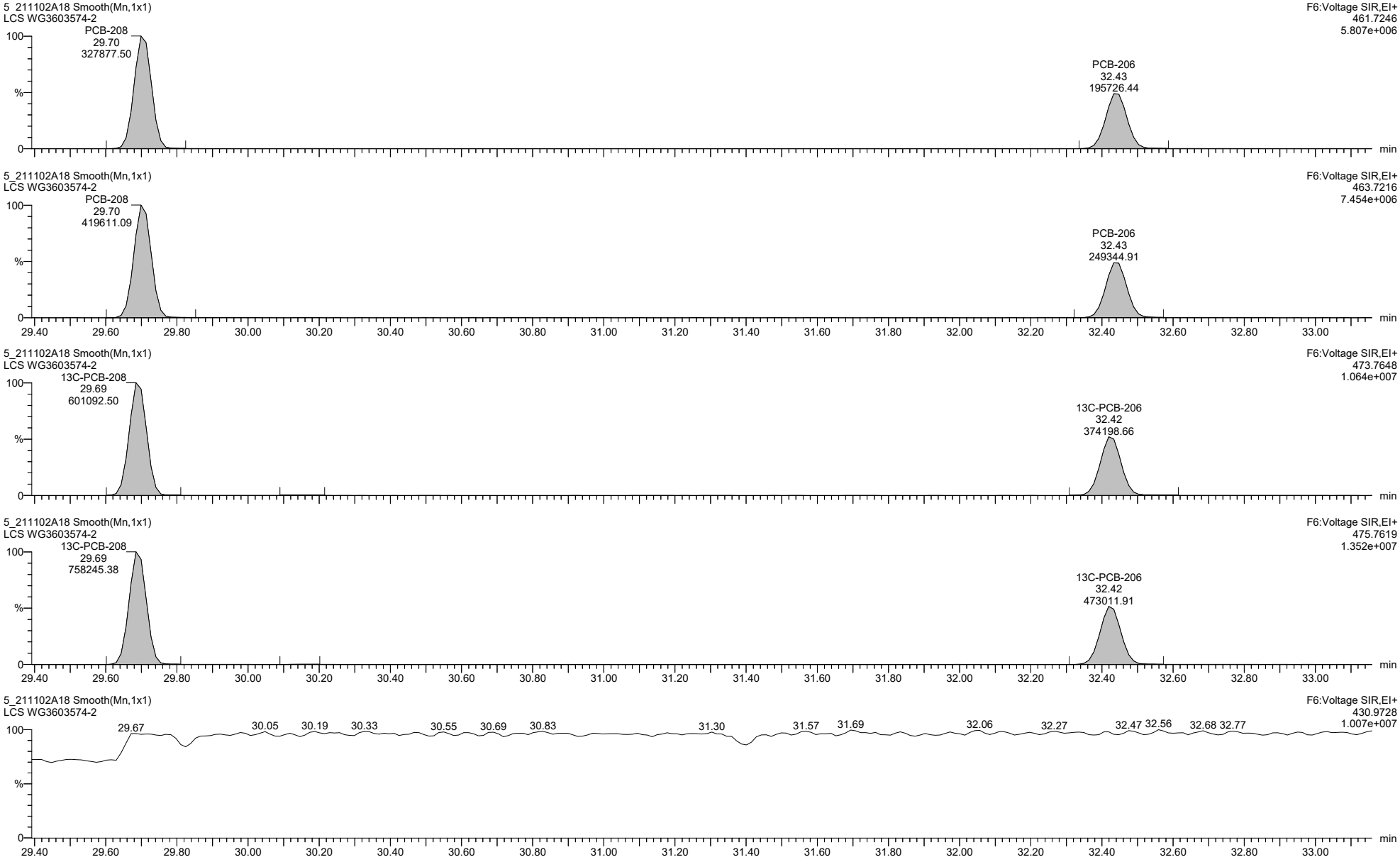

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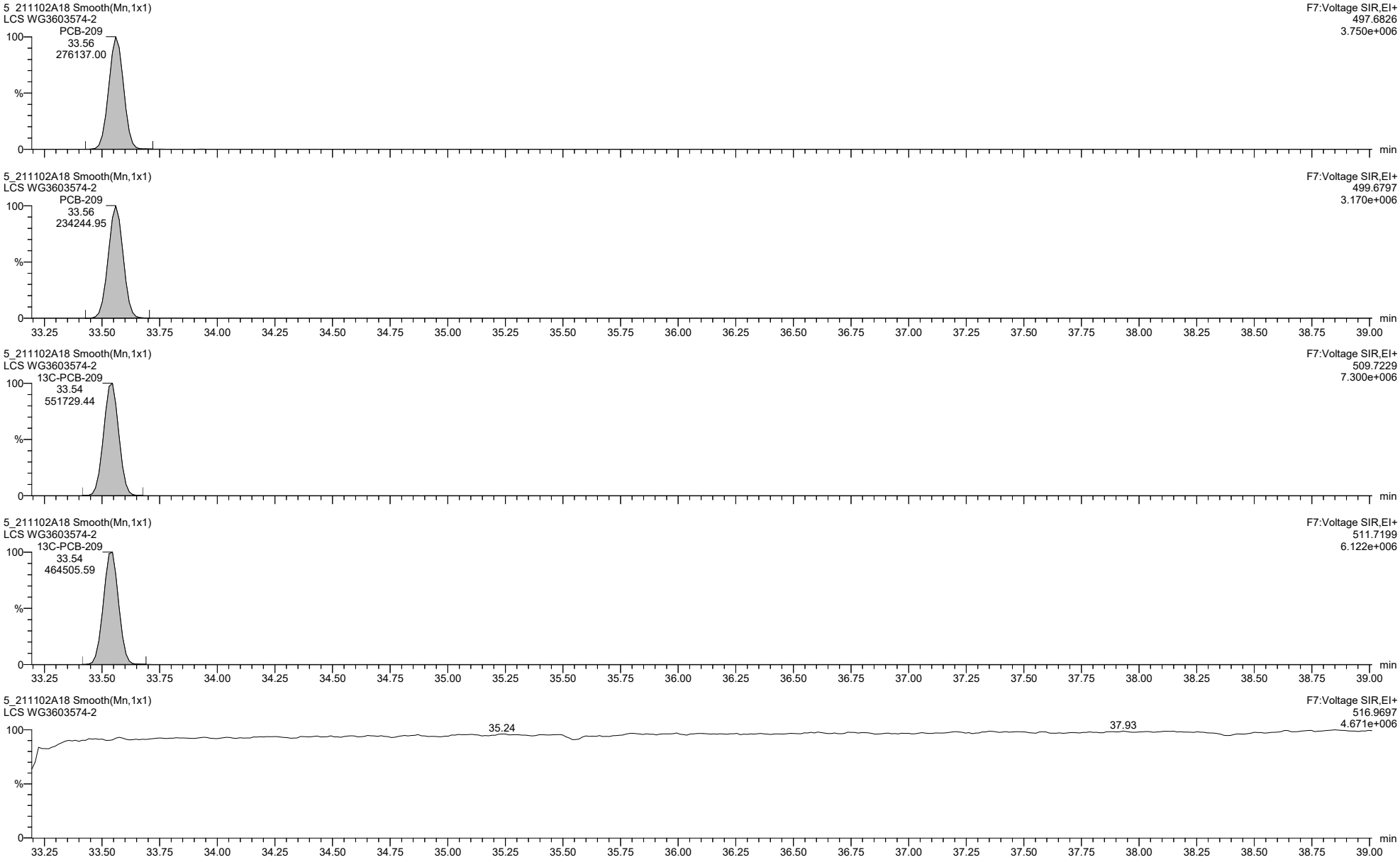

Quantify Sample Summary Report **MassLynx V4.2 SCN1012**

Dataset: I:\Organics Instrument\HIGHRES GCMS Completed Results Files\HR-5\5-211102A2-1108NA.qld

Last Altered: Monday, November 08, 2021 13:43:10 Eastern Standard Time
Printed: Monday, November 08, 2021 16:03:38 Eastern Standard Time

Method: C:\MassLynx\PCB.PRO\MethDB\1668_OCTYL_209-1025.mdb 25 Oct 2021 11:29:00
Calibration: 08 Nov 2021 13:20:26

Name: 5_211102A17, Date: 02-Nov-2021, Time: 21:19:40, ID: H5_21_WDM_945, Description: 1668A-CS7-020C, Vial: Tray1:2

	Target Analyte	#Hom	Total Area	Ion1 Area	Ion2 Area	Ra	Ra Fail=Y...	RT	RRT	RT LCL	RT UCL	Conc.	%Rec	Mod.Comment	Noise 1	Noise 2
1	* PCB-1		1808246	1370799	437447	3.13	NO	8.94	1.00	8.91	8.97	25.38315	101.5		3135	2488
2	PCB-2		1669590	1268967	400623	3.17	NO	10.34	0.99	10.31	10.37	25.00000	100.0		3135	2488
3	PCB-3		1848519	1406558	441960	3.18	NO	10.47	1.00	10.43	10.50	25.98415	103.9		3135	2488
4	*PCB-4		967537	583634	383902	1.52	NO	10.62	1.00	10.59	10.65	28.30712	113.2		2655	13058
5	PCB-10		1586214	966894	619320	1.56	NO	10.73	1.01	10.70	10.77	25.00000	100.0		2655	13058
6	PCB-9		1568529	953019	615510	1.55	NO	11.90	1.12	11.86	11.93	25.00000	100.0		2655	13058
7	PCB-7		1614118	964132	649986	1.48	NO	11.99	1.13	11.96	12.03	25.00000	100.0		2655	13058
8	PCB-6		1638102	990883	647219	1.53	NO	12.16	1.15	12.13	12.20	25.00000	100.0		2655	13058
9	PCB-5		1325505	801354	524151	1.53	NO	12.36	1.16	12.33	12.39	25.00000	100.0		2655	13058
10	PCB-8		1895102	1149286	745816	1.54	NO	12.43	1.17	12.40	12.46	25.00000	100.0		2655	13058
11	* PCB-14		1708699	1048435	660264	1.59	NO	13.40	0.94	13.37	13.44	25.00000	100.0		23294	23499
12	PCB-11		1622494	991375	631119	1.57	NO	13.93	0.97	13.89	13.96	25.00000	100.0		23294	23499
13	PCB-13/12		3200310	1952477	1247832	1.56	NO	14.12	0.99	14.09	14.15	50.00000	100.0		23294	23499
14	PCB-15		1971274	1210875	760399	1.59	NO	14.31	1.00	14.28	14.35	31.97184	127.9		23294	23499
15	* PCB-19		865138	454479	410658	1.11	NO	12.62	1.00	12.59	12.66	28.32644	113.3		2245	2165
16	* PCB-30/18		2449499	1280950	1168549	1.10	NO	13.70	1.09	13.66	13.73	50.00000	100.0		4313	3529
17	PCB-17		952769	499062	453707	1.10	NO	13.98	1.11	13.95	14.02	25.00000	100.0		4313	3529
18	PCB-27		1416439	743897	672542	1.11	NO	14.11	1.12	14.08	14.15	25.00000	100.0		4313	3529
19	PCB-24		1367562	711427	656135	1.08	NO	14.20	1.13	14.16	14.23	25.00000	100.0		4313	3529
20	PCB-16		907869	476673	431196	1.11	NO	14.27	1.13	14.24	14.30	25.00000	100.0		4313	3529
21	PCB-32		1532429	806274	726155	1.11	NO	14.55	1.15	14.52	14.59	25.00000	100.0		4313	3529
22	* PCB-34		1429714	727744	701970	1.04	NO	15.25	0.84	15.22	15.29	25.00000	100.0		7431	4486
23	PCB-23		1515546	766709	748837	1.02	NO	15.34	0.84	15.31	15.37	25.00000	100.0		7431	4486
24	PCB-29/26		2937458	1494291	1443168	1.04	NO	15.54	0.85	15.50	15.57	50.00000	100.0		7431	4486
25	PCB-25		1767102	898501	868601	1.03	NO	15.66	0.86	15.63	15.70	25.00000	100.0		7431	4486
26	PCB-31		1633557	830646	802911	1.03	NO	15.84	0.87	15.81	15.87	25.00000	100.0		7431	4486
27	PCB-28/20		2839623	1444246	1395377	1.03	NO	16.03	0.88	15.99	16.06	50.00000	100.0		7431	4486
28	PCB-21/33		3200919	1624379	1576540	1.03	NO	16.14	0.88	16.11	16.18	50.00000	100.0		7431	4486
29	PCB-22		1526538	768073	758465	1.01	NO	16.39	0.90	16.36	16.42	25.00000	100.0		7431	4486
30	PCB-36		1636872	833292	803580	1.04	NO	17.22	0.94	17.19	17.25	25.00000	100.0		7431	4486
31	PCB-39		1568124	798131	769992	1.04	NO	17.44	0.95	17.40	17.47	25.00000	100.0		7431	4486
32	PCB-38		1443599	737552	706047	1.04	NO	17.76	0.97	17.73	17.79	25.00000	100.0		7431	4486
33	PCB-35		1455915	742028	713886	1.04	NO	18.03	0.99	18.00	18.07	25.00000	100.0		7431	4486
34	PCB-37		1441312	726221	715092	1.02	NO	18.27	1.00	18.23	18.30	28.50624	114.0		7431	4486

Quantify Sample Summary Report **MassLynx V4.2 SCN1012**

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Printed: Monday, November 08, 2021 16:03:38 Eastern Standard Time

Name: 5_211102A17, Date: 02-Nov-2021, Time: 21:19:40, ID: H5_21_WDM_945, Description: 1668A-CS7-020C, Vial: Tray1:2

	Target Analyte	#Hom	Total Area	Ion1 Area	Ion2 Area	Ra	Ra Fail=Y...	RT	RRT	RT LCL	RT UCL	Conc.	%Rec	Mod.Comment	Noise 1	Noise 2
35	* PCB-54		2308016	1013441	1294575	0.78	NO	14.48	1.00	14.45	14.51	59.73466	119.5		1592	1621
36	* PCB-50/53		3844827	1688086	2156741	0.78	NO	15.69	1.08	15.66	15.73	100.00000	100.0		9826	3945
37	PCB-45/51		3673945	1601254	2072691	0.77	NO	16.10	1.11	16.07	16.14	100.00000	100.0		9826	3945
38	PCB-46		1540341	670328	870013	0.77	NO	16.27	1.12	16.24	16.30	50.00000	100.0		9826	3945
39	PCB-52		1924281	832473	1091808	0.76	NO	17.01	1.18	16.97	17.04	50.00000	100.0		9826	3945
40	PCB-73		2379679	1038203	1341476	0.77	NO	17.08	1.18	17.05	17.12	50.00000	100.0		9826	3945
41	PCB-43		1674227	738120	936107	0.79	NO	17.14	1.18	17.11	17.18	50.00000	100.0		9826	3945
42	PCB-69/49		4304681	1884809	2419872	0.78	NO	17.24	1.19	17.21	17.27	100.00000	100.0		9826	3945
43	PCB-48		1864470	809916	1054554	0.77	NO	17.44	1.20	17.40	17.47	50.00000	100.0		9826	3945
44	PCB-44/47/65		6039904	2627540	3412363	0.77	NO	17.58	1.22	17.55	17.62	150.00000	100.0		9826	3945
45	PCB-59/62/75		7455966	3258045	4197921	0.78	NO	17.75	1.23	17.72	17.78	150.00000	100.0		9826	3945
46	PCB-42		1779868	778620	1001248	0.78	NO	17.88	1.24	17.84	17.91	50.00000	100.0		9826	3945
47	PCB-41/71/40		5405550	2356006	3049544	0.77	NO	18.14	1.25	18.11	18.17	150.00000	100.0		9826	3945
48	PCB-64		2602362	1138313	1464049	0.78	NO	18.26	1.26	18.22	18.29	50.00000	100.0		9826	3945
49	* PCB-72		2612797	1155120	1457678	0.79	NO	18.66	0.86	18.63	18.70	50.00000	100.0		51026	1
50	PCB-68		2810135	1230792	1579344	0.78	NO	18.82	0.86	18.79	18.85	50.00000	100.0		51026	1
51	PCB-57		2445280	1073989	1371291	0.78	NO	19.06	0.87	19.03	19.09	50.00000	100.0		51026	1
52	PCB-58		2478133	1087963	1390169	0.78	NO	19.20	0.88	19.17	19.23	50.00000	100.0		51026	1
53	PCB-67		2873413	1269656	1603756	0.79	NO	19.28	0.88	19.25	19.32	50.00000	100.0		51026	1
54	PCB-63		2672621	1180691	1491930	0.79	NO	19.43	0.89	19.40	19.46	50.00000	100.0		51026	1
55	PCB-61/70/74/76		9960926	4381329	5579597	0.79	NO	19.63	0.90	19.59	19.66	200.00000	100.0		51026	1
56	PCB-66		2745877	1209138	1536739	0.79	NO	19.79	0.91	19.76	19.83	50.00000	100.0		51026	1
57	PCB-55		2478645	1090426	1388219	0.79	NO	19.90	0.91	19.87	19.94	50.00000	100.0		51026	1
58	PCB-56		2408767	1055576	1353191	0.78	NO	20.18	0.92	20.15	20.21	50.00000	100.0		51026	1
59	PCB-60		2529116	1105029	1424088	0.78	NO	20.30	0.93	20.27	20.33	50.00000	100.0		51026	1
60	PCB-80		2909999	1280905	1629094	0.79	NO	20.43	0.94	20.40	20.46	50.00000	100.0		51026	1
61	PCB-79		2959307	1294281	1665026	0.78	NO	21.28	0.98	21.25	21.31	50.00000	100.0		51026	1
62	PCB-78		2561619	1108819	1452800	0.76	NO	21.60	0.99	21.56	21.63	50.00000	100.0		51026	1
63	PCB-81		2518417	1098249	1420167	0.77	NO	21.85	1.00	21.81	21.88	52.87038	105.7		51026	1
64	PCB-77		2367115	1049122	1317993	0.80	NO	22.15	1.00	22.12	22.18	49.86929	99.7		51026	1
65	* PCB-104		2127385	1297356	830029	1.56	NO	17.54	1.00	17.51	17.58	55.49927	111.0		1246	3475
66	PCB-96		2013937	1228875	785063	1.57	NO	17.78	1.01	17.75	17.81	50.00000	100.0		1246	3475
67	* PCB-103		1721030	1058723	662307	1.60	NO	18.76	1.07	18.72	18.79	50.00000	100.0		36708	49283
68	PCB-94		1428507	878945	549562	1.60	NO	18.90	1.08	18.87	18.94	50.00000	100.0		36708	49283
69	PCB-95		1579790	970339	609450	1.59	NO	19.15	1.09	19.12	19.19	50.00000	100.0		36708	49283
70	PCB-100/93/102/98		6107451	3763272	2344179	1.61	NO	19.23	1.10	19.19	19.26	200.00000	100.0	NA211108MJ	36708	49283
71	PCB-88/91		3046184	1874930	1171255	1.60	NO	19.62	1.12	19.58	19.65	100.00000	100.0	NA211108MJ	36708	49283

Quantify Sample Summary Report **MassLynx V4.2 SCN1012**

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	Target Analyte	#Hom	Total Area	Ion1 Area	Ion2 Area	Ra	Ra Fail=Y...	RT	RRT	RT LCL	RT UCL	Conc.	%Rec	Mod.Comment	Noise 1	Noise 2
72	PCB-84		1308439	802166	506273	1.58	NO	19.76	1.13	19.73	19.80	50.00000	100.0		36708	49283
73	PCB-89		1403571	861534	542037	1.59	NO	20.01	1.14	19.98	20.05	50.00000	100.0		36708	49283
74	PCB-121		2106621	1295100	811521	1.60	NO	20.14	1.15	20.11	20.18	50.00000	100.0		36708	49283
75	PCB-92		1501866	923216	578649	1.60	NO	20.37	1.16	20.33	20.40	50.00000	100.0		36708	49283
76	PCB-113/90/101		5388423	3304132	2084291	1.59	NO	20.67	1.18	20.64	20.70	150.00000	100.0		36708	49283
77	PCB-83/99		2972591	1842794	1129797	1.63	NO	20.98	0.91	20.94	21.01	100.00000	100.0		36708	49283
78	PCB-112		2092478	1257880	834598	1.51	NO	21.07	0.91	21.03	21.10	50.00000	100.0		36708	49283
79	PCB-109/119/86/97/125/87		10734842	6574853	4159989	1.58	NO	21.25	0.92	21.22	21.29	300.00000	100.0		36708	49283
80	PCB-117/116/85/110/115		9788448	5984706	3803742	1.57	NO	21.68	0.94	21.65	21.71	250.00000	100.0	NA211108MJ	36708	49283
81	PCB-82		1282292	786707	495584	1.59	NO	21.95	0.95	21.91	21.98	50.00000	100.0		36708	49283
82	PCB-111		2160331	1323909	836422	1.58	NO	22.07	0.95	22.03	22.10	50.00000	100.0		36708	49283
83	PCB-120		2316623	1433208	883415	1.62	NO	22.31	0.96	22.27	22.34	50.00000	100.0		36708	49283
84	* PCB-108/124		4136408	2523088	1613320	1.56	NO	22.94	0.99	22.91	22.97	100.00000	100.0		7137	7227
85	PCB-107		2087409	1270125	817284	1.55	NO	23.06	1.00	23.03	23.09	50.00000	100.0		7137	7227
86	PCB-123		2064451	1264067	800384	1.58	NO	23.13	1.00	23.10	23.17	57.05420	114.1		7137	7227
87	PCB-106		2141894	1308870	833025	1.57	NO	23.21	1.00	23.17	23.24	50.00000	100.0		7137	7227
88	PCB-118		2281262	1395811	885451	1.58	NO	23.30	1.00	23.27	23.34	57.49447	115.0		7137	7227
89	PCB-122		1906076	1164679	741397	1.57	NO	23.51	1.00	23.47	23.54	50.00000	100.0		7137	7227
90	PCB-114		2341558	1433518	908040	1.58	NO	23.59	1.00	23.56	23.63	56.48081	113.0		7137	7227
91	PCB-105		2278477	1397904	880573	1.59	NO	23.95	1.00	23.92	23.99	56.99665	114.0		7137	7227
92	PCB-127		2207572	1353090	854482	1.58	NO	24.67	1.03	24.63	24.70	50.00000	100.0		7137	7227
93	PCB-126		2221031	1362403	858628	1.59	NO	25.55	1.00	25.52	25.58	58.11047	116.2		7137	7227
94	* PCB-155		2168286	1206854	961432	1.26	NO	20.53	1.00	20.50	20.57	55.23315	110.5		1962	1603
95	PCB-152		2099678	1163614	936064	1.24	NO	20.70	1.01	20.66	20.73	50.00000	100.0		1962	1603
96	PCB-150		1977109	1099852	877257	1.25	NO	20.76	1.01	20.73	20.80	50.00000	100.0		1962	1603
97	PCB-136		1993430	1109502	883928	1.26	NO	20.99	1.02	20.96	21.03	50.00000	100.0		1962	1603
98	PCB-145		1932674	1068822	863852	1.24	NO	21.13	1.03	21.10	21.17	50.00000	100.0		1962	1603
99	PCB-148		1480932	822081	658852	1.25	NO	21.86	1.07	21.83	21.90	50.00000	100.0		1962	1603
100	PCB-151/135		2793870	1551798	1242072	1.25	NO	22.22	1.08	22.18	22.25	100.00000	100.0		1962	1603
101	PCB-154		1672037	928844	743193	1.25	NO	22.30	1.09	22.26	22.33	50.00000	100.0		1962	1603
102	PCB-144		1458425	806612	651813	1.24	NO	22.50	1.10	22.47	22.54	50.00000	100.0		1962	1603
103	* PCB-147/149		2774644	1535681	1238963	1.24	NO	22.70	1.11	22.66	22.73	100.00000	100.0		5631	11330
104	PCB-134/143		2451722	1356402	1095320	1.24	NO	22.85	1.11	22.82	22.89	100.00000	100.0		5631	11330
105	PCB-139/140		2814243	1553638	1260605	1.23	NO	23.00	1.12	22.97	23.03	100.00000	100.0		5631	11330
106	PCB-131		1165737	647010	518728	1.25	NO	23.13	0.88	23.10	23.17	50.00000	100.0		5631	11330
107	PCB-142		1278906	705873	573034	1.23	NO	23.23	0.88	23.20	23.26	50.00000	100.0		5631	11330
108	PCB-132		1291428	717462	573965	1.25	NO	23.39	0.89	23.35	23.42	50.00000	100.0		5631	11330

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	Target Analyte	#Hom	Total Area	Ion1 Area	Ion2 Area	Ra	Ra Fail=Y...	RT	RRT	RT LCL	RT UCL	Conc.	%Rec	Mod.Comment	Noise 1	Noise 2
109	PCB-133		1387198	765655	621543	1.23	NO	23.57	0.89	23.53	23.60	50.00000	100.0		5631	11330
110	PCB-165		1850642	1017591	833051	1.22	NO	23.79	0.90	23.75	23.82	50.00000	100.0		5631	11330
111	PCB-146		1509999	832458	677541	1.23	NO	23.91	0.90	23.87	23.94	50.00000	100.0		5631	11330
112	PCB-161		2009997	1108955	901042	1.23	NO	23.98	0.91	23.95	24.01	50.00000	100.0		5631	11330
113	PCB-153/168		3641084	2007954	1633130	1.23	NO	24.23	0.92	24.20	24.27	100.00000	100.0		5631	11330
114	PCB-141		1399070	765421	633650	1.21	NO	24.35	0.92	24.32	24.39	50.00000	100.0		5631	11330
115	PCB-130		1267683	695887	571796	1.22	NO	24.58	0.93	24.55	24.62	50.00000	100.0		5631	11330
116	PCB-137/164		3280650	1812384	1468266	1.23	NO	24.75	0.94	24.72	24.79	100.00000	100.0	NA211108MJ	5631	11330
117	PCB-138/163/129		4104734	2252674	1852060	1.22	NO	24.91	0.94	24.88	24.94	150.00000	100.0	NA211108MS	5631	11330
118	PCB-160		2326595	1280049	1046546	1.22	NO	25.01	0.95	24.97	25.04	50.00000	100.0	NA211108MS	5631	11330
119	PCB-158		2153809	1183191	970617	1.22	NO	25.11	0.95	25.08	25.15	50.00000	100.0		5631	11330
120	PCB-128/166		3384372	1849546	1534826	1.21	NO	25.57	0.97	25.54	25.61	100.00000	100.0		5631	11330
121	PCB-159		2049917	1124877	925039	1.22	NO	26.05	0.99	26.01	26.08	50.00000	100.0		5631	11330
122	PCB-162		1916774	1054753	862021	1.22	NO	26.19	0.99	26.16	26.22	50.00000	100.0		5631	11330
123	PCB-167		2061933	1137842	924091	1.23	NO	26.43	1.00	26.40	26.47	58.44781	116.9		5631	11330
124	PCB-156/157		3969546	2181440	1788106	1.22	NO	27.07	1.00	27.04	27.11	111.79966	111.8		5631	11330
125	PCB-169		2047722	1136755	910967	1.25	NO	28.73	1.00	28.69	28.76	58.16382	116.3		5631	11330
126	* PCB-188		1704045	863328	840717	1.03	NO	23.53	1.00	23.50	23.57	55.90546	111.8		1976	2493
127	PCB-179		1720903	880212	840691	1.05	NO	23.75	1.01	23.72	23.78	50.00000	100.0		1976	2493
128	PCB-184		1763565	887570	875995	1.01	NO	23.98	1.02	23.95	24.01	50.00000	100.0		1976	2493
129	PCB-176		1639684	827719	811965	1.02	NO	24.21	1.03	24.18	24.24	50.00000	100.0		1976	2493
130	PCB-186		1604827	812154	792673	1.02	NO	24.45	1.04	24.42	24.48	50.00000	100.0		1976	2493
131	PCB-178		1163573	596191	567382	1.05	NO	25.10	1.07	25.07	25.14	50.00000	100.0		1976	2493
132	PCB-175		1221528	617488	604039	1.02	NO	25.43	1.08	25.40	25.46	50.00000	100.0		1976	2493
133	PCB-187		1349771	675208	674564	1.00	NO	25.57	1.09	25.54	25.61	50.00000	100.0		1976	2493
134	PCB-182		1205888	616948	588940	1.05	NO	25.67	1.09	25.64	25.70	50.00000	100.0		1976	2493
135	PCB-183		1292998	659539	633459	1.04	NO	25.89	1.10	25.85	25.92	50.00000	100.0		1976	2493
136	PCB-185		1243468	624841	618627	1.01	NO	25.97	1.10	25.94	26.01	50.00000	100.0		1976	2493
137	PCB-174		1146833	574867	571965	1.01	NO	26.05	1.11	26.01	26.08	50.00000	100.0		1976	2493
138	PCB-177		1156904	589904	567001	1.04	NO	26.27	1.12	26.24	26.31	50.00000	100.0		1976	2493
139	PCB-181		1180556	594152	586405	1.01	NO	26.47	0.88	26.43	26.50	50.00000	100.0		1976	2493
140	PCB-171/173		2213579	1124362	1089217	1.03	NO	26.60	0.89	26.57	26.63	100.00000	100.0		1976	2493
141	PCB-172		1155234	585843	569391	1.03	NO	27.39	0.91	27.35	27.42	50.00000	100.0		1976	2493
142	PCB-192		1440483	733813	706670	1.04	NO	27.54	0.92	27.51	27.58	50.00000	100.0		1976	2493
143	PCB-180/193		2782573	1404503	1378070	1.02	NO	27.71	0.92	27.68	27.75	100.00000	100.0		1976	2493
144	PCB-191		1635660	824579	811081	1.02	NO	27.92	0.93	27.88	27.95	50.00000	100.0		1976	2493
145	PCB-170		1104023	562023	542000	1.04	NO	28.41	0.95	28.38	28.45	50.00000	100.0		1976	2493

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	Target Analyte	#Hom	Total Area	Ion1 Area	Ion2 Area	Ra	Ra Fail=Y...	RT	RRT	RT LCL	RT UCL	Conc.	%Rec	Mod.Comment	Noise 1	Noise 2
146	PCB-190		1743337	878796	864541	1.02	NO	28.69	0.96	28.66	28.73	50.00000	100.0		1976	2493
147	* PCB-189		1711686	870877	840809	1.04	NO	30.01	1.00	29.97	30.04	54.63278	109.3		2480	1929
148	* PCB-202		2228741	1063671	1165070	0.91	NO	26.30	1.00	26.27	26.33	81.14189	108.2		1388	1532
149	PCB-201		2364396	1122150	1242247	0.90	NO	26.77	1.02	26.74	26.80	75.00000	100.0		1388	1532
150	PCB-204		2289253	1104677	1184576	0.93	NO	27.11	1.03	27.08	27.14	75.00000	100.0		1388	1532
151	PCB-197		2284283	1078719	1205564	0.89	NO	27.23	1.04	27.20	27.26	75.00000	100.0		1388	1532
152	PCB-200		2347151	1128656	1218495	0.93	NO	27.33	1.04	27.29	27.36	75.00000	100.0		1388	1532
153	PCB-198/199		3249998	1540999	1708998	0.90	NO	28.72	0.92	28.68	28.75	150.00000	100.0		1388	1532
154	PCB-196		1633320	773309	860011	0.90	NO	29.07	0.93	29.03	29.10	75.00000	100.0		1388	1532
155	PCB-203		1807987	852659	955328	0.89	NO	29.16	0.93	29.13	29.20	75.00000	100.0		1388	1532
156	* PCB-195		1588270	751472	836799	0.90	NO	29.89	0.95	29.86	29.93	75.00000	100.0		2157	2097
157	PCB-194		1708496	806793	901703	0.89	NO	31.11	0.99	31.07	31.14	75.00000	100.0		2157	2097
158	PCB-205		2074977	984708	1090269	0.90	NO	31.39	1.00	31.35	31.42	81.98185	109.3		2157	2097
159	* PCB-208		2098373	926738	1171635	0.79	NO	29.71	1.00	29.68	29.75	75.92187	101.2		1526	2052
160	PCB-207		2020838	892221	1128617	0.79	NO	30.20	1.02	30.17	30.23	75.00000	100.0		1526	2052
161	PCB-206		1404745	619239	785505	0.79	NO	32.46	1.00	32.43	32.49	75.23019	100.3		1526	2052
162	* PCB-209		1812848	981475	831373	1.18	NO	33.57	1.00	33.54	33.61	82.97355	110.6		478	487
163	13C-PCB-31		4748543	2443126	2305417	1.06	NO	15.83	0.87	15.80	15.86	105.45065	105.5		50142	41324
164	13C-PCB-95		2211379	1354415	856964	1.58	NO	19.14	1.09	19.10	19.17	103.55969	103.6		4700	4000
165	13C-PCB-153		2863651	1612495	1251156	1.29	NO	24.21	1.18	24.18	24.24	101.19437	101.2		5522	6328
166	13C-PCB-28		5272520	2713367	2559153	1.06	NO	16.00	0.94	15.96	16.03	99.02175	99.0		50142	41324
167	13C-PCB-111		2984024	1835756	1148268	1.60	NO	22.05	1.07	22.02	22.08	103.69077	103.7		4700	4000
168	13C-PCB-178		2076668	1049917	1026751	1.02	NO	25.09	1.01	25.06	25.12	97.46749	97.5		2831	2483
169	13C-PCB-1		6227103	4693325	1533778	3.06	NO	8.92	0.75	8.89	8.96	91.65261	91.7		4539	22581
170	13C-PCB-3		5948181	4495715	1452466	3.10	NO	10.45	0.88	10.42	10.49	98.44498	98.4		4539	22581
171	13C-PCB-4		3836136	2347282	1488855	1.58	NO	10.62	0.89	10.59	10.65	90.18748	90.2		12673	4192
172	13C-PCB-15		5620471	3438261	2182210	1.58	NO	14.31	1.20	14.27	14.34	105.86701	105.9		22265	6414
173	13C-PCB-19		2626114	1358257	1267857	1.07	NO	12.61	1.06	12.58	12.64	82.60623	82.6		40971	18753
174	13C-PCB-37		4538716	2336703	2202013	1.06	NO	18.26	1.07	18.22	18.29	103.64053	103.6		50142	41324
175	13C-PCB-54		3617772	1607571	2010201	0.80	NO	14.47	0.85	14.44	14.51	70.21451	70.2		9164	5517
176	13C-PCB-81		3930181	1731261	2198920	0.79	NO	21.83	1.06	21.79	21.86	100.33241	100.3		8845	5705
177	13C-PCB-77		4088405	1814545	2273859	0.80	NO	22.14	1.07	22.11	22.17	102.58357	102.6		8845	5705
178	13C-PCB-104		3324524	2033804	1290721	1.58	NO	17.52	1.03	17.49	17.56	67.66075	67.7		2018	2023
179	13C-PCB-123		3283487	2019751	1263737	1.60	NO	23.12	1.12	23.09	23.15	95.68319	95.7		5892	5019
180	13C-PCB-118		3388381	2075773	1312608	1.58	NO	23.29	1.13	23.26	23.32	94.09409	94.1		5892	5019
181	13C-PCB-114		3370535	2073591	1296945	1.60	NO	23.59	0.95	23.56	23.63	102.68436	102.7		5892	5019
182	13C-PCB-105		3317480	2041941	1275539	1.60	NO	23.94	0.96	23.91	23.98	102.09050	102.1		5892	5019

Quantify Sample Summary Report **MassLynx V4.2 SCN1012**

Dataset: I:\Organics Instrument\HIGHRES GCMS Completed Results Files\HR-5\5-211102A2-1108NA.qld

Last Altered: Monday, November 08, 2021 13:43:10 Eastern Standard Time
Printed: Monday, November 08, 2021 16:03:38 Eastern Standard Time

Name: 5_211102A17, Date: 02-Nov-2021, Time: 21:19:40, ID: H5_21_WDM_945, Description: 1668A-CS7-020C, Vial: Tray1:2

	Target Analyte	#Hom	Total Area	Ion1 Area	Ion2 Area	Ra	Ra Fail=Y...	RT	RRT	RT LCL	RT UCL	Conc.	%Rec	Mod.Comment	Noise 1	Noise 2
183	13C-PCB-126		3153534	1940050	1213484	1.60	NO	25.54	1.03	25.50	25.57	107.04139	107.0		5892	5019
184	13C-PCB-155		3710488	2072077	1638411	1.26	NO	20.52	0.99	20.49	20.56	79.48396	79.5		2254	2275
185	13C-PCB-167		3195488	1774884	1420604	1.25	NO	26.42	1.06	26.39	26.45	98.95996	99.0		5522	6328
186	13C-PCB-156/157		6218193	3474139	2744055	1.27	NO	27.06	1.09	27.03	27.09	199.66042	99.8		5522	6328
187	13C-PCB-169		3224003	1801700	1422303	1.27	NO	28.72	1.15	28.68	28.75	110.19262	110.2		5522	6328
188	13C-PCB-188		3232326	1641246	1591080	1.03	NO	23.52	0.94	23.49	23.55	85.23368	85.2		2831	2483
189	13C-PCB-189		3105129	1593761	1511368	1.05	NO	29.99	0.96	29.96	30.03	104.85099	104.9		2935	2890
190	13C-PCB-202		2547978	1213896	1334082	0.91	NO	26.29	1.06	26.25	26.32	86.93544	86.9		1031	1771
191	13C-PCB-205		2763122	1298514	1464608	0.89	NO	31.37	1.01	31.34	31.41	95.53935	95.5		2889	2576
192	13C-PCB-208		2263602	1000286	1263316	0.79	NO	29.71	0.96	29.68	29.75	98.18074	98.2		1653	1007
193	13C-PCB-206		1541917	680329	861588	0.79	NO	32.45	1.04	32.41	32.48	95.41457	95.4		1653	1007
194	13C-PCB-209		2158943	1172116	986827	1.19	NO	33.56	1.08	33.53	33.59	83.76203	83.8		688	652
195	13C-PCB-9		6320228	3881082	2439146	1.59	NO	11.88	0.48	11.85	11.92	100.00000	100.0		12673	4192
196	13C-PCB-52		3020198	1356688	1663509	0.82	NO	17.00	0.68	16.96	17.03	100.00000	100.0		7637	5171
197	13C-PCB-101		2528831	1556030	972802	1.60	NO	20.66	0.83	20.63	20.69	100.00000	100.0		4700	4000
198	13C-PCB-138		2548596	1425326	1123270	1.27	NO	24.90	0.00	24.86	24.93	100.00000	100.0		5522	6328
199	13C-PCB-194		1942330	916281	1026049	0.89	NO	31.09	1.25	31.06	31.13	100.00000	100.0		2889	2576
200	Total MoCB-F1	11		4205225								565959.87410			3135	
201	Total DiCB-F1	8		6485533								98505.41519			2655	
202	Total DiCB-F2	6		5286678								117416.98928			23294	
203	Total TrCB-F1	1		454479								28.32644			2245	
204	Total TrCB-F2	7		4538366								25932.57546			4313	
205	Total TrCB-F3	20		12937366								685480.80938			7431	
206	Total TeCB-F2	1		1013672								59.73466			1592	
207	Total TeCB-F3	15		19422211								2381.15426			9826	
208	Total TeCB-F4	23		22125974								901130.92648			51026	
209	Total PeCB-F3	2		2526230								105.49927			1246	
210	Total PeCB-F4	20		35050348								202922.37472			36708	
211	Total PeCB-F5	34		15300670								2115535.407...			7137	
212	Total HxCB-F4	14		9758740								1910.40007			1962	
213	Total HxCB-F5	37		29310620								1271969.317...			5631	
214	Total HpCB-F5	29		16096921								395322.91897			1976	
215	Total HpCB-F6	1		1175081								54.63278			2480	
216	Total OcCB-F5	18		8668663								8477.97155			1388	
217	Total OcCB-F6	8		2647330								403702.81408			2157	
218	Total NoCB-F6	3		2438198								226.15207			1526	
219	Total DeCB-F7	1		981475								82.97355			478	

Quantify Sample Summary Report **MassLynx V4.2 SCN1012**

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Name: 5_211102A17, Date: 02-Nov-2021, Time: 21:19:40, ID: H5_21_WDM_945, Description: 1668A-CS7-020C, Vial: Tray1:2

	Target Analyte	#Hom	Total Area	Ion1 Area	Ion2 Area	Ra	Ra Fail=Y...	RT	RRT	RT LCL	RT UCL	Conc.	%Rec	Mod.Comment	Noise 1	Noise 2
220	Total 13C-MoCB-F1	2		9189040								190.09758			4539	
221	Total 13C-DiCB-F1	3		6240609								190.77514			12673	
222	Total 13C-DiCB-F2	1		6779730								105.86701			22265	
223	Total 13C-TrCB-F1	1		1445912								82.60623			40971	
224	Total 13C-TrCB-F3	3		7508954								308.11293			50142	
225	Total 13C-TeCB-F2	1		1607571								70.21451			9164	
226	Total 13C-TeCB-F3	5		1398051								103.02545			7637	
227	Total 13C-TeCB-F4	2		3613469								202.91598			8845	
228	Total 13C-PeCB-F3	1		2036087								67.66075			2018	
229	Total 13C-PeCB-F4	7		4761008								310.17642			4700	
230	Total 13C-PeCB-F5	5		10406702								501.59353			5892	
231	Total 13C-HxCB-F4	1		2083521								79.48396			2254	
232	Total 13C-HxCB-F5	15		10177485								639.21746			5522	
233	Total 13C-HpCB-F5	2		2740343								182.70118			2831	
234	Total 13C-HpCB-F6	1		1778355								104.85099			2935	
235	Total 13C-OcCB-F5	1		1223180								86.93544			1031	
236	Total 13C-OcCB-F6	10		2279706								209.44567			2889	
237	Total 13C-NoCB-F6	2		1683127								193.59531			1653	
238	Total 13C-DeCB-F7	1		1172116								83.76203			688	
239	Lockmass F1			0											12905...	
240	Lockmass F2			0											681167	
241	Lockmass F3			0											12872...	
242	Lockmass F4			0											630676	
243	Lockmass F5			0											230247	
244	Lockmass F6			0											250458	
245	Lockmass F7			0											43014	

Quantify Sample Summary Report **MassLynx V4.2 SCN1012**

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Last Altered: Monday, November 08, 2021 13:43:10 Eastern Standard Time
Printed: Monday, November 08, 2021 16:03:38 Eastern Standard Time

Name: 5_211102A21, Date: 03-Nov-2021, Time: 00:06:36, ID: WG3603574-1, Description: MB, Vial: Tray1:15

	Target Analyte	#Hom	Total Area	Ion1 Area	Ion2 Area	Ra	Ra Fail=Y...	RT	RRT	RT LCL	RT UCL	Conc.	%Rec	Mod.Comment	Noise 1	Noise 2
1	* PCB-1		3783	1877	1906	0.98	YES	8.98	1.00	8.95	9.01	3.70712		NA211108MA	2523	3175
2	PCB-2		2778	1954	824	2.37	YES	10.37	0.99	10.33	10.40	2.25453			2523	3175
3	PCB-3		11934	8994	2939	3.06	NO	10.49	1.00	10.46	10.53	7.36825		NA211108MB	2523	3175
4	*PCB-4		6657	3957	2700	1.47	NO	10.65	1.00	10.62	10.68	8.90627		NA211108MB	3758	17356
5	PCB-10						YES								3758	17356
6	PCB-9		3438	1983	1455	1.36	NO	11.90	1.12	11.86	11.93	2.20719		NA211108MB	3758	17356
7	PCB-7		5690	3644	2046	1.78	NO	12.01	1.13	11.97	12.04	3.55017		NA211108MB	3758	17356
8	PCB-6		3981	2681	1300	2.06	YES	12.16	1.14	12.13	12.20	2.44755		NA211108MA	3758	17356
9	PCB-5						YES								3758	17356
10	PCB-8		21398	12641	8758	1.44	NO	12.44	1.17	12.41	12.48	11.37132		NA211108MB	3758	17356
11	* PCB-14						YES								3601	17015
12	PCB-11		70816	43242	27575	1.57	NO	13.92	0.97	13.89	13.95	43.95594			3601	17015
13	PCB-13/12						YES								3601	17015
14	PCB-15		6048	3336	2712	1.23	YES	14.30	1.00	14.26	14.33	3.65461			3601	17015
15	* PCB-19		1773	986	787	1.25	YES	12.64	1.00	12.61	12.67	2.75198		NA211108MA	2607	2285
16	* PCB-30/18		9847	5161	4687	1.10	NO	13.73	1.09	13.70	13.77	7.57905			2891	3077
17	PCB-17						YES								2891	3077
18	PCB-27						YES								2891	3077
19	PCB-24						YES								2891	3077
20	PCB-16		3456	1921	1535	1.25	YES	14.26	1.13	14.23	14.29	3.58840		NA211108MB	2891	3077
21	PCB-32		3954	1996	1958	1.02	NO	14.55	1.15	14.51	14.58	2.43220			2891	3077
22	* PCB-34						YES								2875	3514
23	PCB-23						YES								2875	3514
24	PCB-29/26		2978	1344	1633	0.82	YES	15.51	0.85	15.47	15.54	1.91110			2875	3514
25	PCB-25		1329	654	676	0.97	NO	15.64	0.86	15.61	15.68	0.70920		NA211108MA	2875	3514
26	PCB-31		13361	6797	6564	1.04	NO	15.83	0.87	15.80	15.86	7.70980			2875	3514
27	PCB-28/20		16736	8367	8368	1.00	NO	16.00	0.88	15.96	16.03	11.11115			2875	3514
28	PCB-21/33		9217	4524	4693	0.96	NO	16.14	0.89	16.11	16.18	5.42891			2875	3514
29	PCB-22		5224	2869	2355	1.22	YES	16.38	0.90	16.35	16.41	3.22586			2875	3514
30	PCB-36						YES								2875	3514
31	PCB-39						YES								2875	3514
32	PCB-38						YES								2875	3514
33	PCB-35		1808	873	935	0.93	NO	17.99	0.99	17.96	18.03	1.17057			2875	3514
34	PCB-37		4702	2748	1954	1.41	YES	18.24	1.00	18.21	18.27	3.13487			2875	3514
35	* PCB-54						YES								1368	1329
36	* PCB-50/53		953	419	534	0.78	NO	15.68	1.08	15.65	15.72	0.93347			1134	1880
37	PCB-45/51		2659	1248	1411	0.88	NO	16.09	1.11	16.06	16.13	2.72478			1134	1880

Quantify Sample Summary Report **MassLynx V4.2 SCN1012**

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Name: 5_211102A21, Date: 03-Nov-2021, Time: 00:06:36, ID: WG3603574-1, Description: MB, Vial: Tray1:15

	Target Analyte	#Hom	Total Area	Ion1 Area	Ion2 Area	Ra	Ra Fail=Y...	RT	RRT	RT LCL	RT UCL	Conc.	%Rec	Mod.Comment	Noise 1	Noise 2
38	PCB-46						YES								1134	1880
39	PCB-52		8599	3915	4684	0.84	NO	17.00	1.18	16.96	17.03	8.41129			1134	1880
40	PCB-73						YES								1134	1880
41	PCB-43						YES								1134	1880
42	PCB-69/49		4469	1771	2698	0.66	NO	17.27	1.19	17.24	17.30	3.90804			1134	1880
43	PCB-48		1338	469	869	0.54	YES	17.43	1.20	17.39	17.46	1.35075		NA211108MB	1134	1880
44	PCB-44/47/65		12916	5479	7437	0.74	NO	17.56	1.21	17.53	17.60	12.07551			1134	1880
45	PCB-59/62/75		1249	439	810	0.54	YES	17.74	1.23	17.71	17.77	0.94565		NA211108MB	1134	1880
46	PCB-42		2268	1041	1227	0.85	NO	17.86	1.23	17.82	17.89	2.39793			1134	1880
47	PCB-41/71/40		3335	1516	1819	0.83	NO	18.13	1.25	18.10	18.16	3.48426		NA211108MB	1134	1880
48	PCB-64		4417	1799	2618	0.69	NO	18.24	1.26	18.21	18.27	3.19497			1134	1880
49	* PCB-72						YES								1688	2751
50	PCB-68		1576	546	1030	0.53	YES	18.80	0.86	18.77	18.84	1.05540			1688	2751
51	PCB-57						YES								1688	2751
52	PCB-58						YES								1688	2751
53	PCB-67						YES								1688	2751
54	PCB-63						YES								1688	2751
55	PCB-61/70/74/76		13734	6113	7620	0.80	NO	19.60	0.90	19.56	19.63	10.38044			1688	2751
56	PCB-66		7339	3406	3933	0.87	NO	19.77	0.91	19.74	19.81	5.03101			1688	2751
57	PCB-55						YES								1688	2751
58	PCB-56		3628	1766	1863	0.95	YES	20.15	0.92	20.12	20.19	2.83528		NA211108MB	1688	2751
59	PCB-60		1742	778	964	0.81	NO	20.26	0.93	20.23	20.30	1.29676		NA211108MB	1688	2751
60	PCB-80						YES								1688	2751
61	PCB-79						YES								1688	2751
62	PCB-78						YES								1688	2751
63	PCB-81						YES								1688	2751
64	PCB-77		1312	483	829	0.58	YES	22.11	1.00	22.08	22.15	0.93526			1688	2751
65	* PCB-104						YES								1277	1995
66	PCB-96						YES								1277	1995
67	* PCB-103						YES								1138	2252
68	PCB-94						YES								1138	2252
69	PCB-95		4763	2754	2009	1.37	NO	19.14	1.09	19.10	19.17	5.21585			1138	2252
70	PCB-100/93/102/98						YES								1138	2252
71	PCB-88/91		1011	733	278	2.64	YES	19.60	1.12	19.56	19.63	1.14768			1138	2252
72	PCB-84		1281	774	507	1.53	NO	19.74	1.13	19.70	19.77	1.69323			1138	2252
73	PCB-89						YES								1138	2252
74	PCB-121						YES								1138	2252

Quantify Sample Summary Report **MassLynx V4.2 SCN1012**

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Name: 5_211102A21, Date: 03-Nov-2021, Time: 00:06:36, ID: WG3603574-1, Description: MB, Vial: Tray1:15

	Target Analyte	#Hom	Total Area	Ion1 Area	Ion2 Area	Ra	Ra Fail=Y...	RT	RRT	RT LCL	RT UCL	Conc.	%Rec	Mod.Comment	Noise 1	Noise 2
75	PCB-92		1058	671	387	1.73	NO	20.34	1.16	20.30	20.37	1.21840			1138	2252
76	PCB-113/90/101		7090	4227	2863	1.48	NO	20.65	1.18	20.62	20.69	6.82831		NA211108MB	1138	2252
77	PCB-83/99		3599	2236	1363	1.64	NO	20.97	0.91	20.93	21.00	4.18850			1138	2252
78	PCB-112						YES								1138	2252
79	PCB-109/119/86/97/125/87		4544	2682	1862	1.44	NO	21.32	0.92	21.28	21.35	4.39334		NA211108MJ	1138	2252
80	PCB-117/116/85/110/115		10212	6232	3980	1.57	NO	21.73	0.94	21.70	21.77	9.02341		NA211108MJ	1138	2252
81	PCB-82						YES								1138	2252
82	PCB-111		490	178	313	0.57	YES	22.09	0.96	22.06	22.13	0.39267			1138	2252
83	PCB-120						YES								1138	2252
84	* PCB-108/124		419	191	227	0.84	YES	22.90	0.99	22.87	22.94	0.35012			1546	2198
85	PCB-107						YES								1546	2198
86	PCB-123						YES								1546	2198
87	PCB-106						YES								1546	2198
88	PCB-118		6029	3957	2072	1.91	YES	23.28	1.00	23.24	23.31	4.99414		NA211108MB	1546	2198
89	PCB-122						YES								1546	2198
90	PCB-114		342	214	128	1.68	NO	23.58	1.00	23.55	23.61	0.28030			1546	2198
91	PCB-105		3333	1433	1900	0.75	YES	23.94	1.00	23.91	23.98	2.86415			1546	2198
92	PCB-127						YES								1546	2198
93	PCB-126						YES								1546	2198
94	* PCB-155		309	144	165	0.87	YES	20.50	1.00	20.47	20.54	0.28750		NA211108MJ	1021	964
95	PCB-152						YES								1021	964
96	PCB-150						YES								1021	964
97	PCB-136		1484	809	675	1.20	NO	20.98	1.02	20.94	21.01	1.27148			1021	964
98	PCB-145						YES								1021	964
99	PCB-148						YES								1021	964
100	PCB-151/135		2665	1561	1104	1.41	NO	22.20	1.08	22.16	22.23	3.25881		NA211108MB	1021	964
101	PCB-154		297	164	133	1.23	NO	22.27	1.09	22.24	22.30	0.30383		NA211108MB	1021	964
102	PCB-144						YES								1021	964
103	* PCB-147/149		6658	3587	3071	1.17	NO	22.67	1.11	22.64	22.71	8.19690		NA211108MB	1080	1134
104	PCB-134/143						YES								1080	1134
105	PCB-139/140						YES								1080	1134
106	PCB-131						YES								1080	1134
107	PCB-142						YES								1080	1134
108	PCB-132		2291	1540	750	2.05	YES	23.37	0.89	23.34	23.41	3.02950			1080	1134
109	PCB-133						YES								1080	1134
110	PCB-165						YES								1080	1134
111	PCB-146		1259	695	564	1.23	NO	23.88	0.90	23.85	23.92	1.42394			1080	1134

Quantify Sample Summary Report **MassLynx V4.2 SCN1012**

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Name: 5_211102A21, Date: 03-Nov-2021, Time: 00:06:36, ID: WG3603574-1, Description: MB, Vial: Tray1:15

	Target Analyte	#Hom	Total Area	Ion1 Area	Ion2 Area	Ra	Ra Fail=Y...	RT	RRT	RT LCL	RT UCL	Conc.	%Rec	Mod.Comment	Noise 1	Noise 2
112	PCB-161						YES								1080	1134
113	PCB-153/168		7566	4071	3495	1.16	NO	24.21	0.92	24.18	24.24	7.09780			1080	1134
114	PCB-141		1639	867	772	1.12	NO	24.34	0.92	24.31	24.37	2.00085		NA211108MB	1080	1134
115	PCB-130						YES								1080	1134
116	PCB-137/164		1093	532	561	0.95	YES	24.74	0.94	24.71	24.77	1.13788		NA211108MJ	1080	1134
117	PCB-138/163/129		8173	4365	3808	1.15	NO	24.90	0.94	24.86	24.93	10.20203			1080	1134
118	PCB-160						YES								1080	1134
119	PCB-158		887	492	395	1.25	NO	25.09	0.95	25.06	25.12	0.70330			1080	1134
120	PCB-128/166		1332	713	619	1.15	NO	25.59	0.97	25.55	25.62	1.34442		NA211108MB	1080	1134
121	PCB-159						YES								1080	1134
122	PCB-162						YES								1080	1134
123	PCB-167		613	306	307	1.00	YES	26.43	1.00	26.40	26.47	0.58127		NA211108MB	1080	1134
124	PCB-156/157		1140	642	497	1.29	NO	27.04	1.00	27.00	27.07	1.11278		NA211108MB	1080	1134
125	PCB-169		405	107	298	0.36	YES	28.70	1.00	28.67	28.74	0.36786		NA211108MB	1080	1134
126	* PCB-188						YES								1030	826
127	PCB-179		1304	694	610	1.14	NO	23.73	1.01	23.69	23.76	1.32505		NA211108MB	1030	826
128	PCB-184						YES								1030	826
129	PCB-176						YES								1030	826
130	PCB-186						YES								1030	826
131	PCB-178		464	249	215	1.16	NO	25.09	1.07	25.06	25.12	0.69813			1030	826
132	PCB-175						YES								1030	826
133	PCB-187		2296	1244	1052	1.18	NO	25.55	1.09	25.52	25.58	2.97517			1030	826
134	PCB-182						YES								1030	826
135	PCB-183		902	447	455	0.98	NO	25.86	1.10	25.83	25.90	1.22004		NA211108MA	1030	826
136	PCB-185		264	110	155	0.71	YES	25.97	1.11	25.94	26.01	0.37171		NA211108MA	1030	826
137	PCB-174		2087	1103	985	1.12	NO	26.02	1.11	25.99	26.05	3.18373		NA211108MA	1030	826
138	PCB-177		1097	569	528	1.08	NO	26.25	1.12	26.22	26.28	1.65873			1030	826
139	PCB-181		215	90	125	0.72	YES	26.40	0.88	26.36	26.43	0.31803		NA211108MA	1030	826
140	PCB-171/173		495	211	283	0.75	YES	26.59	0.89	26.56	26.62	0.78156			1030	826
141	PCB-172						YES								1030	826
142	PCB-192						YES								1030	826
143	PCB-180/193		3843	2113	1729	1.22	YES	27.71	0.92	27.68	27.75	4.83096			1030	826
144	PCB-191		147	56	92	0.61	YES	27.89	0.93	27.86	27.93	0.15741			1030	826
145	PCB-170		1675	946	730	1.30	YES	28.40	0.95	28.37	28.44	2.65433			1030	826
146	PCB-190		552	262	290	0.91	NO	28.67	0.96	28.63	28.70	0.55354		NA211108MB	1030	826
147	* PCB-189						YES								940	808
148	* PCB-202						YES								687	926

Quantify Sample Summary Report **MassLynx V4.2 SCN1012**

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Name: 5_211102A21, Date: 03-Nov-2021, Time: 00:06:36, ID: WG3603574-1, Description: MB, Vial: Tray1:15

	Target Analyte	#Hom	Total Area	Ion1 Area	Ion2 Area	Ra	Ra Fail=Y...	RT	RRT	RT LCL	RT UCL	Conc.	%Rec	Mod.Comment	Noise 1	Noise 2
149	PCB-201						YES								687	926
150	PCB-204						YES								687	926
151	PCB-197						YES								687	926
152	PCB-200						YES								687	926
153	PCB-198/199		614	280	335	0.84	NO	28.70	0.92	28.67	28.74	1.03546			687	926
154	PCB-196		371	176	195	0.90	NO	29.03	0.93	29.00	29.06	0.62281		NA211108MB	687	926
155	PCB-203		451	164	287	0.57	YES	29.15	0.93	29.12	29.18	0.68318		NA211108MB	687	926
156	* PCB-195						YES								832	650
157	PCB-194		1746	823	923	0.89	NO	31.08	0.99	31.05	31.11	2.79831			832	650
158	PCB-205		235	99	137	0.72	YES	31.36	1.00	31.33	31.39	0.35925			832	650
159	* PCB-208						YES								1016	2255
160	PCB-207						YES								1016	2255
161	PCB-206						YES								1016	2255
162	* PCB-209		297	141	156	0.90	YES	33.56	1.00	33.53	33.59	0.56440		NA211108MA	312	594
163	13C-PCB-31						YES								57442	24591
164	13C-PCB-95		2596	1815	780	2.33	YES	19.19	1.10	19.16	19.22	4.20539	0.1		4125	3383
165	13C-PCB-153		8102	4579	3524	1.30	NO	24.20	1.18	24.16	24.23	9.78033	0.2		4148	3806
166	13C-PCB-28		2862598	1468121	1394477	1.05	NO	15.99	0.94	15.95	16.02	981.35492	24.5		57442	24591
167	13C-PCB-111		1940007	1196789	743219	1.61	NO	22.03	1.07	22.00	22.06	1179.66114	29.5		4125	3383
168	13C-PCB-178		1415734	717484	698250	1.03	NO	25.08	1.01	25.05	25.11	1180.99408	29.5		2220	2244
169	13C-PCB-1		3568128	2643256	924872	2.86	NO	8.99	0.76	8.96	9.03	924.16077	23.1		5148	205215
170	13C-PCB-3		5416708	4073014	1343694	3.03	NO	10.48	0.88	10.45	10.51	1577.58628	39.4		5148	205215
171	13C-PCB-4		3355722	2056444	1299279	1.58	NO	10.63	0.89	10.60	10.67	1388.31011	34.7		14921	4689
172	13C-PCB-15		6034331	3689606	2344725	1.57	NO	14.30	1.20	14.26	14.33	2000.16289	50.0		15686	6332
173	13C-PCB-19		2215489	1142732	1072756	1.07	NO	12.62	1.06	12.59	12.66	1226.35745	30.7		54200	30801
174	13C-PCB-37		5385330	2769171	2616159	1.06	NO	18.23	1.07	18.20	18.26	2244.72091	56.1		57442	24591
175	13C-PCB-54		2939922	1283488	1656434	0.77	NO	14.46	0.85	14.43	14.50	1041.53714	26.0		8316	4583
176	13C-PCB-81		4591697	2020255	2571442	0.79	NO	21.81	1.06	21.77	21.84	2051.24696	51.3		9709	5744
177	13C-PCB-77		4832832	2123813	2709020	0.78	NO	22.11	1.07	22.08	22.15	2121.98197	53.0		9709	5744
178	13C-PCB-104		3406420	2060896	1345524	1.53	NO	17.51	1.03	17.48	17.55	1213.16971	30.3		2222	2187
179	13C-PCB-123		3961278	2428077	1533202	1.58	NO	23.10	1.12	23.06	23.13	2020.00153	50.5		5679	5645
180	13C-PCB-118		4124000	2534641	1589359	1.59	NO	23.27	1.13	23.23	23.30	2004.03273	50.1		5679	5645
181	13C-PCB-114		3962857	2449179	1513678	1.62	NO	23.57	0.95	23.53	23.60	2112.66123	52.8		5679	5645
182	13C-PCB-105		3862673	2367264	1495410	1.58	NO	23.92	0.96	23.88	23.95	2080.08480	52.0		5679	5645
183	13C-PCB-126		3976360	2445232	1531128	1.60	NO	25.51	1.03	25.48	25.55	2361.86988	59.0		5679	5645
184	13C-PCB-155		4059878	2253213	1806666	1.25	NO	20.50	0.99	20.47	20.54	1521.86983	38.0		2656	1765
185	13C-PCB-167		3823791	2145818	1677973	1.28	NO	26.41	1.06	26.37	26.44	2104.69784	52.6		4148	3806

Quantify Sample Summary Report **MassLynx V4.2 SCN1012**

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Printed: Monday, November 08, 2021 16:03:38 Eastern Standard Time

Name: 5_211102A21, Date: 03-Nov-2021, Time: 00:06:36, ID: WG3603574-1, Description: MB, Vial: Tray1:15

	Target Analyte	#Hom	Total Area	Ion1 Area	Ion2 Area	Ra	Ra Fail=Y...	RT	RRT	RT LCL	RT UCL	Conc.	%Rec	Mod.Comment	Noise 1	Noise 2
186	13C-PCB-156/157		7173890	4039590	3134300	1.29	NO	27.04	1.09	27.00	27.07	4094.07454	51.2		4148	3806
187	13C-PCB-169		4032337	2357130	1675206	1.41	NO	28.69	1.15	28.66	28.73	2449.55464	61.2		4148	3806
188	13C-PCB-188		3706492	1898212	1808280	1.05	NO	23.50	0.94	23.46	23.53	1737.13004	43.4		2220	2244
189	13C-PCB-189		3539976	1820135	1719841	1.06	NO	29.96	0.96	29.93	30.00	2124.54741	53.1		3234	3582
190	13C-PCB-202		2960403	1407048	1553355	0.91	NO	26.27	1.06	26.24	26.31	1795.25116	44.9		1417	1374
191	13C-PCB-205		2857850	1347228	1510622	0.89	NO	31.36	1.01	31.33	31.39	1961.27891	49.0		1910	1223
192	13C-PCB-208		2526272	1117671	1408601	0.79	NO	29.68	0.96	29.65	29.72	2174.82379	54.4		1641	2131
193	13C-PCB-206		1641631	722024	919607	0.79	NO	32.42	1.04	32.39	32.45	2016.26192	50.4		1641	2131
194	13C-PCB-209		2081270	1130607	950662	1.19	NO	33.53	1.08	33.50	33.56	1602.69959	40.1		573	477
195	13C-PCB-9		14366284	8781551	5584733	1.57	NO	11.90	0.48	11.86	11.93	227.30642	5.7		14921	4689
196	13C-PCB-52		6618231	2947589	3670642	0.80	NO	16.98	0.68	16.94	17.01	219.13240	5.5		7492	5417
197	13C-PCB-101		5780479	3530437	2250042	1.57	NO	20.64	0.83	20.61	20.68	228.58301	5.7		4125	3383
198	13C-PCB-138		5735718	3203707	2532011	1.27	NO	24.87	0.00	24.84	24.91	225.05400	5.6		4148	3806
199	13C-PCB-194		3914401	1848509	2065892	0.89	NO	31.08	1.25	31.05	31.11	201.53119	5.0		1910	1223
200	Total MoCB-F1	3		12825								13.32991			2523	
201	Total DiCB-F1	7		26392								6763.45831			3758	
202	Total DiCB-F2	4		47865								3464.26459			3601	
203	Total TrCB-F1	1		1702								2.75198			2607	
204	Total TrCB-F2	4		11847								3980.41114			2891	
205	Total TrCB-F3	8		28176								34.40145			2875	
206	Total TeCB-F2			0											1368	
207	Total TeCB-F3	12		18219								252.92292			1134	
208	Total TeCB-F4	7		13351								619.54624			1688	
209	Total PeCB-F3			0											1277	
210	Total PeCB-F4	10		20489								47.14583			1138	
211	Total PeCB-F5	9		14029								55745.63608			1546	
212	Total HxCB-F4	4		2679								5.12162			1021	
213	Total HxCB-F5	14		18077								332.21540			1080	
214	Total HpCB-F5	13		8092								20.72838			1030	
215	Total HpCB-F6			0											940	
216	Total OcCB-F5	3		620								2.34145			687	
217	Total OcCB-F6	2		921								3.15756			832	
218	Total NoCB-F6			0											1016	
219	Total DeCB-F7	1		141								0.56440			312	
220	Total 13C-MoCB-F1	2		6750633								2501.74705			5148	
221	Total 13C-DiCB-F1	6		10855158								1616.36173			14921	
222	Total 13C-DiCB-F2	1		3689606								2000.16289			15686	

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Name: 5_211102A21, Date: 03-Nov-2021, Time: 00:06:36, ID: WG3603574-1, Description: MB, Vial: Tray1:15

	Target Analyte	#Hom	Total Area	Ion1 Area	Ion2 Area	Ra	Ra Fail=Y...	RT	RRT	RT LCL	RT UCL	Conc.	%Rec	Mod.Comment	Noise 1	Noise 2
223	Total 13C-TrCB-F1	1		2358917								1226.35745			54200	
224	Total 13C-TrCB-F3	2		4396212								3226.07583			57442	
225	Total 13C-TeCB-F2	1		1283488								1041.53714			8316	
226	Total 13C-TeCB-F3	4		2962400								220.14552			7492	
227	Total 13C-TeCB-F4	2		4194627								4173.22893			9709	
228	Total 13C-PeCB-F3	1		2192019								1213.16971			2222	
229	Total 13C-PeCB-F4	12		4751071								1416.98235			4125	
230	Total 13C-PeCB-F5	5		13210593								10578.65017			5679	
231	Total 13C-HxCB-F4	1		2266403								1521.86983			2656	
232	Total 13C-HxCB-F5	18		11848358								8914.31464			4148	
233	Total 13C-HpCB-F5	2		2674874								2918.12411			2220	
234	Total 13C-HpCB-F6	1		2695436								2124.54741			3234	
235	Total 13C-OcCB-F5	1		1414300								1795.25116			1417	
236	Total 13C-OcCB-F6	7		3263516								2177.69822			1910	
237	Total 13C-NoCB-F6	2		1840817								4191.08571			1641	
238	Total 13C-DeCB-F7	1		1130607								1602.69959			573	
239	Lockmass F1			0											55643...	
240	Lockmass F2			0											705377	
241	Lockmass F3			0											907628	
242	Lockmass F4			0											560429	
243	Lockmass F5			0											235038	
244	Lockmass F6			0											240429	
245	Lockmass F7			0											47111	

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Name: 5_211102A23, Date: 03-Nov-2021, Time: 01:31:01, ID: L2625428-2, Description: 20XDIL, Vial: Tray1:16

	Target Analyte	#Hom	Total Area	Ion1 Area	Ion2 Area	Ra	Ra Fail=Y...	RT	RRT	RT LCL	RT UCL	Conc.	%Rec	Mod.Comment	Noise 1	Noise 2
1	* PCB-1		4786	3656	1130	3.24	NO	8.90	1.00	8.86	8.93	140.88395			1486	2314
2	PCB-2		11299	8492	2808	3.02	NO	10.31	0.99	10.28	10.35	345.52492		NA211108MB	1486	2314
3	PCB-3		5038	4003	1035	3.87	YES	10.44	1.00	10.40	10.47	140.75359		NA211108MB	1486	2314
4	*PCB-4		4471	2161	2311	0.94	YES	10.59	1.00	10.56	10.63	293.02972		NA211108MB	2570	11742
5	PCB-10						YES								2570	11742
6	PCB-9						YES								2570	11742
7	PCB-7						YES								2570	11742
8	PCB-6		6197	3269	2928	1.12	YES	12.12	1.15	12.09	12.15	201.99833		NA211108MB	2570	11742
9	PCB-5						YES								2570	11742
10	PCB-8		11754	6569	5185	1.27	YES	12.40	1.17	12.37	12.43	331.16389			2570	11742
11	* PCB-14						YES								6609	15792
12	PCB-11		99605	59577	40027	1.49	NO	13.90	0.97	13.87	13.93	3277.88600		NA211108MB	6609	15792
13	PCB-13/12						YES								6609	15792
14	PCB-15		10843	5948	4895	1.22	YES	14.30	1.00	14.26	14.33	364.03805		NA211108MB	6609	15792
15	* PCB-19		1724	897	827	1.08	NO	12.60	1.00	12.56	12.63	133.08006		NA211108MB	2118	2864
16	* PCB-30/18		19480	10084	9396	1.07	NO	13.71	1.09	13.67	13.74	726.37471			2507	2941
17	PCB-17		8085	4144	3941	1.05	NO	13.96	1.11	13.92	13.99	387.52251			2507	2941
18	PCB-27		1581	819	763	1.07	NO	14.08	1.12	14.04	14.11	50.98590			2507	2941
19	PCB-24						YES								2507	2941
20	PCB-16		6774	3479	3295	1.06	NO	14.24	1.13	14.21	14.27	340.77148			2507	2941
21	PCB-32		8436	4204	4233	0.99	NO	14.53	1.15	14.49	14.56	251.40681			2507	2941
22	* PCB-34						YES								3740	3433
23	PCB-23						YES								3740	3433
24	PCB-29/26		7532	3910	3622	1.08	NO	15.49	0.85	15.45	15.52	234.21134		NA211108MB	3740	3433
25	PCB-25		3464	1477	1987	0.74	YES	15.64	0.86	15.60	15.67	89.52213		NA211108MB	3740	3433
26	PCB-31		45265	22972	22293	1.03	NO	15.81	0.87	15.78	15.84	1265.46248			3740	3433
27	PCB-28/20		49904	25066	24838	1.01	NO	15.99	0.88	15.95	16.02	1605.17673		NA211108MB	3740	3433
28	PCB-21/33		14265	7352	6913	1.06	NO	16.13	0.89	16.10	16.17	407.03619		NA211108MB	3740	3433
29	PCB-22		16155	7944	8211	0.97	NO	16.36	0.90	16.33	16.39	483.30866			3740	3433
30	PCB-36						YES								3740	3433
31	PCB-39						YES								3740	3433
32	PCB-38						YES								3740	3433
33	PCB-35		4489	2345	2144	1.09	NO	17.99	0.99	17.96	18.03	140.80237			3740	3433
34	PCB-37		13777	7598	6178	1.23	YES	18.24	1.00	18.21	18.27	440.35163		NA211108MB	3740	3433
35	* PCB-54						YES								1135	1558
36	* PCB-50/53		3580	1641	1939	0.85	NO	15.66	1.08	15.63	15.70	177.99163			1304	2451
37	PCB-45/51		6539	3030	3509	0.86	NO	16.08	1.11	16.04	16.11	340.19014			1304	2451

Quantify Sample Summary Report **MassLynx V4.2 SCN1012**

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Name: 5_211102A23, Date: 03-Nov-2021, Time: 01:31:01, ID: L2625428-2, Description: 20XDIL, Vial: Tray1:16

	Target Analyte	#Hom	Total Area	Ion1 Area	Ion2 Area	Ra	Ra Fail=Y...	RT	RRT	RT LCL	RT UCL	Conc.	%Rec	Mod.Comment	Noise 1	Noise 2
38	PCB-46		1351	600	751	0.80	NO	16.24	1.12	16.21	16.28	83.83856			1304	2451
39	PCB-52		75882	32618	43264	0.75	NO	16.98	1.18	16.94	17.01	3768.61048		NA211108MB	1304	2451
40	PCB-73						YES								1304	2451
41	PCB-43		2354	899	1456	0.62	YES	17.10	1.18	17.07	17.14	134.37503		NA211108MB	1304	2451
42	PCB-69/49		26652	11621	15031	0.77	NO	17.25	1.19	17.22	17.28	1183.39021			1304	2451
43	PCB-48		6659	2825	3834	0.74	NO	17.42	1.21	17.38	17.45	341.31619			1304	2451
44	PCB-44/47/65		55931	24215	31717	0.76	NO	17.55	1.22	17.52	17.59	2654.94510			1304	2451
45	PCB-59/62/75		3098	1289	1809	0.71	NO	17.72	1.23	17.69	17.75	119.11973			1304	2451
46	PCB-42		7415	3198	4217	0.76	NO	17.84	1.23	17.80	17.87	398.11528			1304	2451
47	PCB-41/71/40		16092	6810	9282	0.73	NO	18.11	1.25	18.08	18.14	853.51813			1304	2451
48	PCB-64		21791	9036	12754	0.71	NO	18.23	1.26	18.20	18.26	800.22766			1304	2451
49	* PCB-72						YES								2250	3577
50	PCB-68		4128	1620	2508	0.65	YES	18.79	0.86	18.76	18.83	140.36936		NA211108MB	2250	3577
51	PCB-57						YES								2250	3577
52	PCB-58		463	224	238	0.94	YES	19.16	0.88	19.13	19.20	17.83783		NA211108MS	2250	3577
53	PCB-67		1333	610	723	0.84	NO	19.26	0.88	19.22	19.29	44.33226		NA211108MA	2250	3577
54	PCB-63		2038	813	1225	0.66	NO	19.40	0.89	19.37	19.44	72.87656		NA211108MB	2250	3577
55	PCB-61/70/74/76		129018	56089	72929	0.77	NO	19.59	0.90	19.55	19.62	4951.28715			2250	3577
56	PCB-66		46028	20429	25599	0.80	NO	19.77	0.91	19.74	19.81	1601.96173		NA211108MB	2250	3577
57	PCB-55		1467	579	888	0.65	YES	19.88	0.91	19.84	19.91	56.54383		NA211108MB	2250	3577
58	PCB-56		19472	8825	10647	0.83	NO	20.15	0.92	20.12	20.19	772.54861			2250	3577
59	PCB-60		11586	5146	6441	0.80	NO	20.27	0.93	20.24	20.31	437.81013			2250	3577
60	PCB-80						YES								2250	3577
61	PCB-79		1894	800	1095	0.73	NO	21.25	0.98	21.22	21.29	61.17637		NA211108MS	2250	3577
62	PCB-78						YES								2250	3577
63	PCB-81		461	124	337	0.37	YES	21.83	1.00	21.79	21.86	16.39738		NA211108MA	2250	3577
64	PCB-77		4822	2144	2679	0.80	NO	22.12	1.00	22.09	22.16	173.42591			2250	3577
65	* PCB-104						YES								1056	2281
66	PCB-96						YES								1056	2281
67	* PCB-103		987	513	474	1.08	YES	18.74	1.07	18.70	18.77	50.25892			1872	3531
68	PCB-94						YES								1872	3531
69	PCB-95		68423	42093	26330	1.60	NO	19.13	1.09	19.09	19.16	3795.46658		NA211108MJ	1872	3531
70	PCB-100/93/102/98		2841	1529	1312	1.17	YES	19.30	1.10	19.27	19.34	163.08132		NA211108MJ	1872	3531
71	PCB-88/91		10834	6500	4335	1.50	NO	19.59	1.12	19.55	19.62	623.36783			1872	3531
72	PCB-84		20018	12315	7703	1.60	NO	19.74	1.13	19.70	19.77	1340.67859			1872	3531
73	PCB-89		893	533	360	1.48	NO	19.99	1.14	19.95	20.02	55.77377			1872	3531
74	PCB-121		872	535	336	1.59	NO	20.12	1.15	20.09	20.16	36.25683			1872	3531

Quantify Sample Summary Report **MassLynx V4.2 SCN1012**

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Name: 5_211102A23, Date: 03-Nov-2021, Time: 01:31:01, ID: L2625428-2, Description: 20XDIL, Vial: Tray1:16

	Target Analyte	#Hom	Total Area	Ion1 Area	Ion2 Area	Ra	Ra Fail=Y...	RT	RRT	RT LCL	RT UCL	Conc.	%Rec	Mod.Comment	Noise 1	Noise 2
75	PCB-92		17567	11070	6497	1.70	NO	20.35	1.16	20.31	20.38	1024.99405			1872	3531
76	PCB-113/90/101		118051	72818	45233	1.61	NO	20.65	1.18	20.62	20.69	5759.60710			1872	3531
77	PCB-83/99		50212	30669	19542	1.57	NO	20.96	0.91	20.92	20.99	2960.49513			1872	3531
78	PCB-112						YES								1872	3531
79	PCB-109/119/86/97/125/87		74769	45780	28989	1.58	NO	21.31	0.92	21.28	21.34	3662.17310		NA211108MJ	1872	3531
80	PCB-117/116/85/110/115		167087	103124	63963	1.61	NO	21.73	0.94	21.69	21.76	7479.34748		NA211108MB	1872	3531
81	PCB-82		10592	6474	4118	1.57	NO	21.92	0.95	21.89	21.95	723.87409			1872	3531
82	PCB-111		156	76	80	0.95	YES	22.09	0.96	22.05	22.12	6.33079		NA211108MB	1872	3531
83	PCB-120		587	351	236	1.49	NO	22.27	0.96	22.24	22.30	22.20917		NA211108MB	1872	3531
84	* PCB-108/124		4801	2937	1864	1.58	NO	22.90	0.99	22.87	22.94	203.41032			2547	2820
85	PCB-107		7292	4420	2872	1.54	NO	23.04	1.00	23.00	23.07	306.13270		NA211108MS	2547	2820
86	PCB-123		1504	918	586	1.57	NO	23.10	1.00	23.06	23.13	70.68414		NA211108MS	2547	2820
87	PCB-106						YES								2547	2820
88	PCB-118		122392	74138	48254	1.54	NO	23.28	1.00	23.24	23.31	5318.65817		NA211108MS	2547	2820
89	PCB-122		1599	983	617	1.59	NO	23.47	1.00	23.44	23.50	73.53584		NA211108MB	2547	2820
90	PCB-114		3351	1941	1411	1.38	NO	23.57	1.00	23.53	23.60	143.76335			2547	2820
91	PCB-105		43501	27449	16052	1.71	NO	23.93	1.00	23.90	23.96	1868.03313			2547	2820
92	PCB-127						YES								2547	2820
93	PCB-126		237	132	104	1.27	YES	25.51	1.00	25.48	25.55	10.56763		NA211108MS	2547	2820
94	* PCB-155		7052	3932	3120	1.26	NO	20.51	1.00	20.48	20.55	313.76466			900	965
95	PCB-152						YES								900	965
96	PCB-150		549	365	184	1.99	YES	20.74	1.01	20.70	20.77	24.38643		NA211108MB	900	965
97	PCB-136		10900	5907	4992	1.18	NO	20.97	1.02	20.93	21.00	479.98885			900	965
98	PCB-145						YES								900	965
99	PCB-148		416	259	157	1.65	YES	21.84	1.07	21.80	21.87	24.68175			900	965
100	PCB-151/135		24400	13325	11075	1.20	NO	22.17	1.08	22.14	22.20	1533.28458		NA211108MS	900	965
101	PCB-154		1208	683	525	1.30	NO	22.27	1.09	22.24	22.30	63.40874		NA211108MS	900	965
102	PCB-144		4652	2621	2031	1.29	NO	22.47	1.10	22.44	22.51	279.98450			900	965
103	* PCB-147/149		58821	32967	25854	1.28	NO	22.66	1.11	22.63	22.70	3721.93944		NA211108MA	2256	1157
104	PCB-134/143		2988	1632	1356	1.20	NO	22.79	1.11	22.76	22.83	213.99196			2256	1157
105	PCB-139/140		2149	1213	937	1.29	NO	22.98	1.12	22.94	23.01	134.07193			2256	1157
106	PCB-131		1331	811	521	1.56	YES	23.11	0.88	23.08	23.14	100.24654			2256	1157
107	PCB-142						YES								2256	1157
108	PCB-132		25434	13595	11839	1.15	NO	23.36	0.89	23.33	23.40	1728.84183			2256	1157
109	PCB-133		1332	759	573	1.32	NO	23.54	0.89	23.51	23.58	84.29904			2256	1157
110	PCB-165						YES								2256	1157
111	PCB-146		12156	6685	5471	1.22	NO	23.88	0.90	23.85	23.92	706.68627			2256	1157

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	Target Analyte	#Hom	Total Area	Ion1 Area	Ion2 Area	Ra	Ra Fail=Y...	RT	RRT	RT LCL	RT UCL	Conc.	%Rec	Mod.Comment	Noise 1	Noise 2
112	PCB-161						YES								2256	1157
113	PCB-153/168		92010	50968	41042	1.24	NO	24.20	0.92	24.16	24.23	4436.58151			2256	1157
114	PCB-141		15520	8247	7273	1.13	NO	24.33	0.92	24.30	24.36	973.76395			2256	1157
115	PCB-130		4472	2398	2074	1.16	NO	24.55	0.93	24.51	24.58	309.64432			2256	1157
116	PCB-137/164		11834	6014	5819	1.03	YES	24.72	0.94	24.68	24.75	633.28647		NA211108MJ	2256	1157
117	PCB-138/163/129		96645	53433	43212	1.24	NO	24.89	0.94	24.85	24.92	6200.55532			2256	1157
118	PCB-160						YES								2256	1157
119	PCB-158		12608	7170	5438	1.32	NO	25.08	0.95	25.05	25.11	513.88087			2256	1157
120	PCB-128/166		15389	8394	6995	1.20	NO	25.57	0.97	25.54	25.61	798.34355			2256	1157
121	PCB-159		690	359	331	1.08	NO	26.01	0.99	25.98	26.04	29.55287			2256	1157
122	PCB-162						YES								2256	1157
123	PCB-167		4164	2418	1746	1.39	NO	26.41	1.00	26.37	26.44	205.58551		NA211108MB	2256	1157
124	PCB-156/157		14586	7606	6979	1.09	NO	27.04	1.00	27.00	27.07	755.10445			2256	1157
125	PCB-169						YES								2256	1157
126	* PCB-188						YES								836	919
127	PCB-179		7231	3419	3812	0.90	NO	23.73	1.01	23.69	23.76	391.85450		NA211108MB	836	919
128	PCB-184		11590	5699	5891	0.97	NO	23.94	1.02	23.91	23.98	612.90561			836	919
129	PCB-176		2084	1084	1000	1.08	NO	24.17	1.03	24.14	24.21	118.52164			836	919
130	PCB-186						YES								836	919
131	PCB-178		2863	1461	1402	1.04	NO	25.07	1.07	25.03	25.10	229.48495			836	919
132	PCB-175		680	275	405	0.68	YES	25.41	1.08	25.37	25.44	51.93318			836	919
133	PCB-187		19967	10045	9922	1.01	NO	25.54	1.09	25.50	25.57	1379.61020			836	919
134	PCB-182						YES								836	919
135	PCB-183		8419	4097	4322	0.95	NO	25.85	1.10	25.82	25.89	607.23305			836	919
136	PCB-185		1255	619	636	0.97	NO	25.94	1.10	25.90	25.97	94.09716		NA211108MS	836	919
137	PCB-174		11107	5145	5962	0.86	YES	26.01	1.11	25.98	26.04	903.23223		NA211108MB	836	919
138	PCB-177		5676	2837	2839	1.00	NO	26.24	1.12	26.21	26.27	457.54950			836	919
139	PCB-181		289	96	193	0.50	YES	26.46	0.88	26.42	26.49	22.83634		NA211108MB	836	919
140	PCB-171/173		3061	1582	1479	1.07	NO	26.58	0.89	26.54	26.61	257.94622			836	919
141	PCB-172		1923	895	1028	0.87	YES	27.36	0.91	27.33	27.40	155.24803		NA211108MB	836	919
142	PCB-192						YES								836	919
143	PCB-180/193		35257	18292	16965	1.08	NO	27.70	0.92	27.67	27.73	2363.31252			836	919
144	PCB-191		1101	535	566	0.94	NO	27.88	0.93	27.85	27.92	62.76561			836	919
145	PCB-170		9692	5059	4633	1.09	NO	28.39	0.95	28.36	28.42	818.74568			836	919
146	PCB-190		3453	1685	1769	0.95	NO	28.66	0.96	28.62	28.69	184.73889			836	919
147	* PCB-189		618	338	280	1.21	NO	29.98	1.00	29.94	30.01	37.85812		NA211108MB	854	534
148	* PCB-202		2752	1233	1519	0.81	NO	26.27	1.00	26.24	26.31	178.09239			533	827

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	Target Analyte	#Hom	Total Area	Ion1 Area	Ion2 Area	Ra	Ra Fail=Y...	RT	RRT	RT LCL	RT UCL	Conc.	%Rec	Mod.Comment	Noise 1	Noise 2
149	PCB-201		1605	797	808	0.99	NO	26.75	1.02	26.71	26.78	106.13926			533	827
150	PCB-204		523	288	235	1.23	YES	27.08	1.03	27.05	27.12	35.74158		NA211108MB	533	827
151	PCB-197		817	378	439	0.86	NO	27.22	1.04	27.18	27.25	55.93303		NA211108MB	533	827
152	PCB-200		1196	729	467	1.56	YES	27.30	1.04	27.27	27.34	79.66881			533	827
153	PCB-198/199		7690	3646	4044	0.90	NO	28.70	0.92	28.67	28.74	740.15601			533	827
154	PCB-196		3053	1369	1683	0.81	NO	29.04	0.93	29.01	29.08	292.29012			533	827
155	PCB-203		4819	2140	2680	0.80	NO	29.14	0.93	29.11	29.17	416.89160			533	827
156	* PCB-195		1408	685	723	0.95	NO	29.87	0.95	29.83	29.90	138.62365			655	504
157	PCB-194		5211	2540	2671	0.95	NO	31.08	0.99	31.05	31.11	477.01757			655	504
158	PCB-205						YES								655	504
159	* PCB-208		1788	704	1085	0.65	YES	29.69	1.00	29.65	29.72	136.55134			895	2375
160	PCB-207		873	299	574	0.52	YES	30.17	1.02	30.14	30.21	71.67842		NA211108MA	895	2375
161	PCB-206		2954	1339	1615	0.83	NO	32.42	1.00	32.39	32.45	376.49288			895	2375
162	* PCB-209		1474	756	718	1.05	NO	33.55	1.00	33.51	33.58	193.70111			268	336
163	13C-PCB-31						YES								46804	32396
164	13C-PCB-95		214	116	98	1.19	YES	19.22	1.10	19.19	19.25	17.55851	0.4		1964	1699
165	13C-PCB-153						YES								2033	1963
166	13C-PCB-28		48442	22346	26095	0.86	YES	15.98	0.94	15.94	16.01	1192.86283	29.8		46804	32396
167	13C-PCB-111		37657	22486	15171	1.48	NO	22.02	1.07	21.99	22.05	1624.80807	40.6		1964	1699
168	13C-PCB-178		23660	12300	11360	1.08	NO	25.07	1.01	25.03	25.10	1371.73612	34.3		2054	1396
169	13C-PCB-1		118774	84515	34259	2.47	YES	8.88	0.75	8.85	8.92	2264.39267	56.6		2343	29613
170	13C-PCB-3		119703	90217	29486	3.06	NO	10.42	0.88	10.39	10.46	2566.16972	64.2		2343	29613
171	13C-PCB-4		68505	41199	27306	1.51	NO	10.58	0.89	10.55	10.61	2086.14371	52.2		14152	4163
172	13C-PCB-15		108603	62738	45865	1.37	NO	14.28	1.20	14.24	14.31	2649.72820	66.2		17163	6412
173	13C-PCB-19		44551	21298	23253	0.92	NO	12.58	1.06	12.55	12.62	1815.22160	45.4		47386	22323
174	13C-PCB-37		112336	59991	52345	1.15	NO	18.22	1.07	18.19	18.25	3363.36696	84.1		46804	32396
175	13C-PCB-54		55034	22806	32228	0.71	NO	14.44	0.85	14.41	14.48	1400.47114	35.0		7440	4702
176	13C-PCB-81		92687	41762	50924	0.82	NO	21.80	1.06	21.77	21.83	2938.12607	73.5		8224	5912
177	13C-PCB-77		95801	40739	55062	0.74	NO	22.11	1.07	22.08	22.15	2984.82460	74.6		8224	5912
178	13C-PCB-104		73398	44581	28817	1.55	NO	17.49	1.03	17.46	17.53	1854.87714	46.4		1882	1733
179	13C-PCB-123		77255	46921	30333	1.55	NO	23.08	1.12	23.05	23.12	2795.43285	69.9		2105	2282
180	13C-PCB-118		78606	48038	30568	1.57	NO	23.25	1.13	23.22	23.29	2710.48468	67.8		2105	2282
181	13C-PCB-114		75810	47280	28530	1.66	NO	23.56	0.95	23.52	23.59	2867.84280	71.7		2105	2282
182	13C-PCB-105		77302	47788	29514	1.62	NO	23.92	0.96	23.89	23.95	2953.85415	73.8		2105	2282
183	13C-PCB-126		73931	46056	27876	1.65	NO	25.51	1.03	25.48	25.55	3116.05637	77.9		2105	2282
184	13C-PCB-155		84971	47928	37043	1.29	NO	20.49	0.99	20.46	20.53	2260.17344	56.5		1750	1459
185	13C-PCB-167		73377	41006	32371	1.27	NO	26.40	1.06	26.36	26.43	2807.03502	70.2		2033	1963

Quantify Sample Summary Report **MassLynx V4.2 SCN1012**

Dataset: I:\Organics Instrument\HIGHRES GCMS Completed Results Files\HR-5\5-211102A2-1108NA.qld

Last Altered: Monday, November 08, 2021 13:43:10 Eastern Standard Time
Printed: Monday, November 08, 2021 16:03:38 Eastern Standard Time

Name: 5_211102A23, Date: 03-Nov-2021, Time: 01:31:01, ID: L2625428-2, Description: 20XDIL, Vial: Tray1:16

	Target Analyte	#Hom	Total Area	Ion1 Area	Ion2 Area	Ra	Ra Fail=Y...	RT	RRT	RT LCL	RT UCL	Conc.	%Rec	Mod.Comment	Noise 1	Noise 2
186	13C-PCB-156/157		135313	76966	58347	1.32	NO	27.04	1.09	27.00	27.07	5367.01827	67.1		2033	1963
187	13C-PCB-169		75625	43927	31698	1.39	NO	28.69	1.15	28.66	28.73	3192.90689	79.8		2033	1963
188	13C-PCB-188		71243	36409	34834	1.05	NO	23.50	0.94	23.46	23.53	2320.61737	58.0		2054	1396
189	13C-PCB-189		64667	32655	32012	1.02	NO	29.96	0.96	29.93	30.00	2697.38220	67.4		2348	1351
190	13C-PCB-202		57340	26386	30954	0.85	NO	26.26	1.06	26.23	26.30	2416.72296	60.4		2221	1197
191	13C-PCB-205		44538	21733	22805	0.95	NO	31.35	1.01	31.31	31.38	2370.71555	59.3		1059	761
192	13C-PCB-208		42907	19283	23624	0.82	NO	29.69	0.96	29.65	29.72	2864.99130	71.6		920	1335
193	13C-PCB-206		25920	11344	14576	0.78	NO	32.42	1.04	32.39	32.45	2469.15272	61.7		920	1335
194	13C-PCB-209		30071	16633	13438	1.24	NO	33.53	1.08	33.50	33.56	1796.04385	44.9		336	300
195	13C-PCB-9		195174	119058	76116	1.56	NO	11.85	0.48	11.82	11.89	3.08809	0.1		14152	4163
196	13C-PCB-52		92138	42283	49854	0.85	NO	16.97	0.68	16.93	17.00	3.05071	0.1		6858	4905
197	13C-PCB-101		81462	50633	30830	1.64	NO	20.63	0.83	20.60	20.67	3.22134	0.1		1964	1699
198	13C-PCB-138		82527	46346	36180	1.28	NO	24.87	0.00	24.84	24.91	3.23813	0.1		2033	1963
199	13C-PCB-194		50468	23074	27394	0.84	NO	31.07	1.25	31.03	31.10	2.59833	0.1		1059	761
200	Total MoCB-F1	3		16150								627.16246			1486	
201	Total DiCB-F1	3		11999								826.19194			2570	
202	Total DiCB-F2	3		65905								4632.66918			6609	
203	Total TrCB-F1	1		897								133.08006			2118	
204	Total TrCB-F2	5		22728								1757.06141			2507	
205	Total TrCB-F3	10		81819								8381.54514			3740	
206	Total TeCB-F2			0											1135	
207	Total TeCB-F3	12		97782								10855.63814			1304	
208	Total TeCB-F4	17		102030								17921.88859			2250	
209	Total PeCB-F3	1		387								2107.61508			1056	
210	Total PeCB-F4	20		335944								30860.43652			1872	
211	Total PeCB-F5	19		2340950								5502559.007...			2547	
212	Total HxCB-F4	7		27092								2719.49951			900	
213	Total HxCB-F5	23		211855								32293.04176			2256	
214	Total HpCB-F5	19		63678								10100.40688			836	
215	Total HpCB-F6	1		486								37.85812			854	
216	Total OcCB-F5	8		10580								1904.91281			533	
217	Total OcCB-F6	3		3335								1070.93782			655	
218	Total NoCB-F6	3		2342								584.72264			895	
219	Total DeCB-F7	1		756								193.70111			268	
220	Total 13C-MoCB-F1	2		174732								4830.56239			2343	
221	Total 13C-DiCB-F1	2		160257								2089.23180			14152	
222	Total 13C-DiCB-F2	1		65263								2649.72820			17163	

Quantify Sample Summary Report **MassLynx V4.2 SCN1012**

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Name: 5_211102A23, Date: 03-Nov-2021, Time: 01:31:01, ID: L2625428-2, Description: 20XDIL, Vial: Tray1:16

	Target Analyte	#Hom	Total Area	Ion1 Area	Ion2 Area	Ra	Ra Fail=Y...	RT	RRT	RT LCL	RT UCL	Conc.	%Rec	Mod.Comment	Noise 1	Noise 2
223	Total 13C-TrCB-F1	1		21298								1815.22160			47386	
224	Total 13C-TrCB-F3	2		82337								4556.22979			46804	
225	Total 13C-TeCB-F2	1		22806								1400.47114			7440	
226	Total 13C-TeCB-F3	1		42283								3.05071			6858	
227	Total 13C-TeCB-F4	2		82502								5922.95067			8224	
228	Total 13C-PeCB-F3	1		47359								1854.87714			1882	
229	Total 13C-PeCB-F4	9		73792								1645.76660			1964	
230	Total 13C-PeCB-F5	5		252889								14443.67086			2105	
231	Total 13C-HxCB-F4	1		47995								2260.17344			1750	
232	Total 13C-HxCB-F5	9		211082								11371.02620			2033	
233	Total 13C-HpCB-F5	2		50668								3692.35349			2054	
234	Total 13C-HpCB-F6	1		48151								2697.38220			2348	
235	Total 13C-OcCB-F5	1		44554								2416.72296			2221	
236	Total 13C-OcCB-F6	5		46060								2373.60645			1059	
237	Total 13C-NoCB-F6	2		30627								5334.14402			920	
238	Total 13C-DeCB-F7	1		17355								1796.04385			336	
239	Lockmass F1			0											18484...	
240	Lockmass F2			0											483878	
241	Lockmass F3			0											897660	
242	Lockmass F4			0											545437	
243	Lockmass F5			0											182915	
244	Lockmass F6			0											217629	
245	Lockmass F7			0											47559	

Quantify Sample Report **MassLynx V4.2 SCN1012**

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Last Altered: Monday, November 08, 2021 13:43:10 Eastern Standard Time
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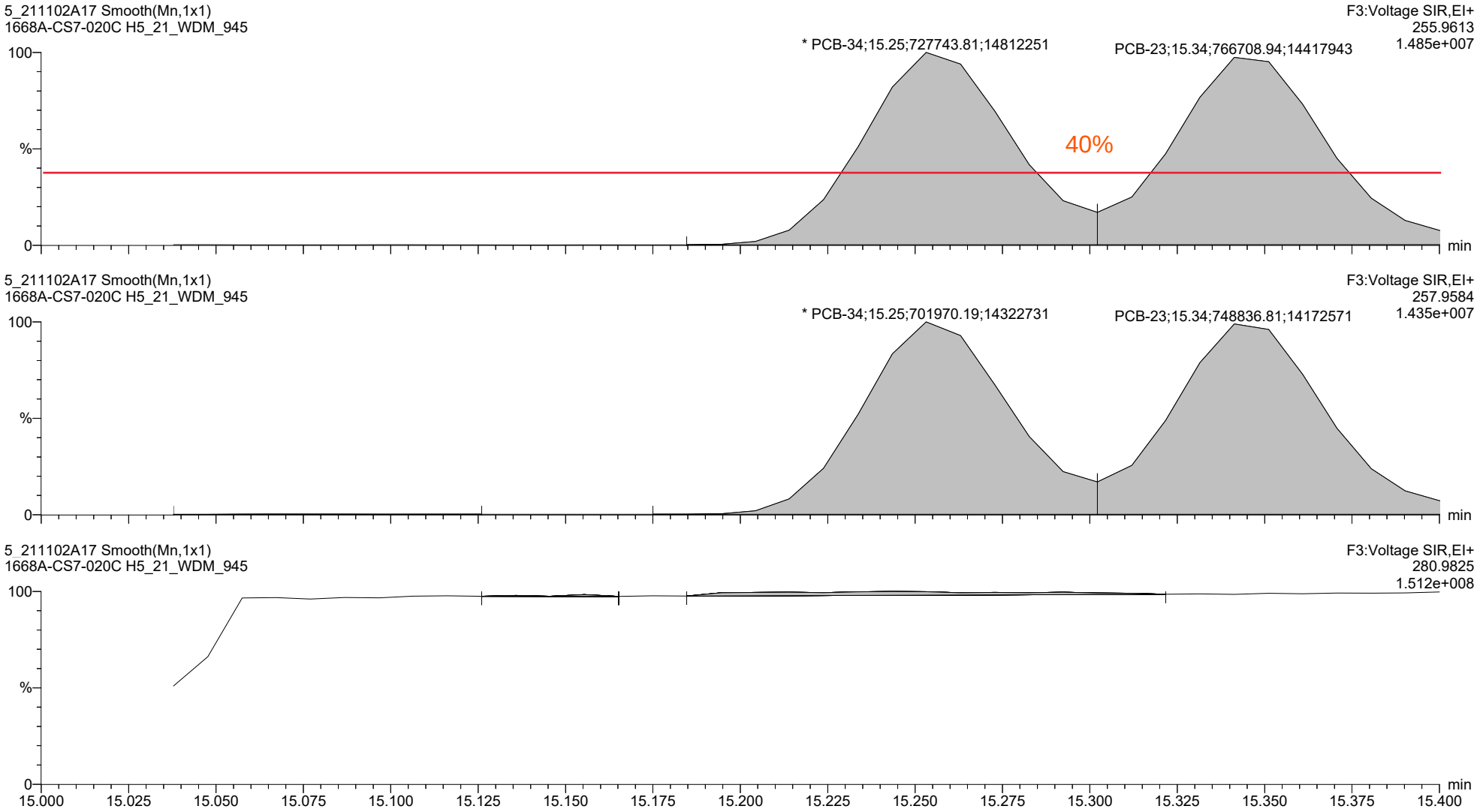
Method: C:\MassLynx\PCB.PRO\MethDB\1668_OCTYL_209-1025.mdb 25 Oct 2021 11:29:00
Calibration: 08 Nov 2021 13:20:26

Name: 5_211102A17, Date: 02-Nov-2021, Time: 21:19:40, ID: H5_21_WDM_945, Description: 1668A-CS7-020C, Vial: Tray1:2

*** PCB-34**



Quantify Sample Report **MassLynx V4.2 SCN1012**

Dataset: I:\Organics Instrument\HIGHRES GCMS Completed Results Files\HR-5\5-211102A2-1108NA.qld

Last Altered: Monday, November 08, 2021 13:43:10 Eastern Standard Time
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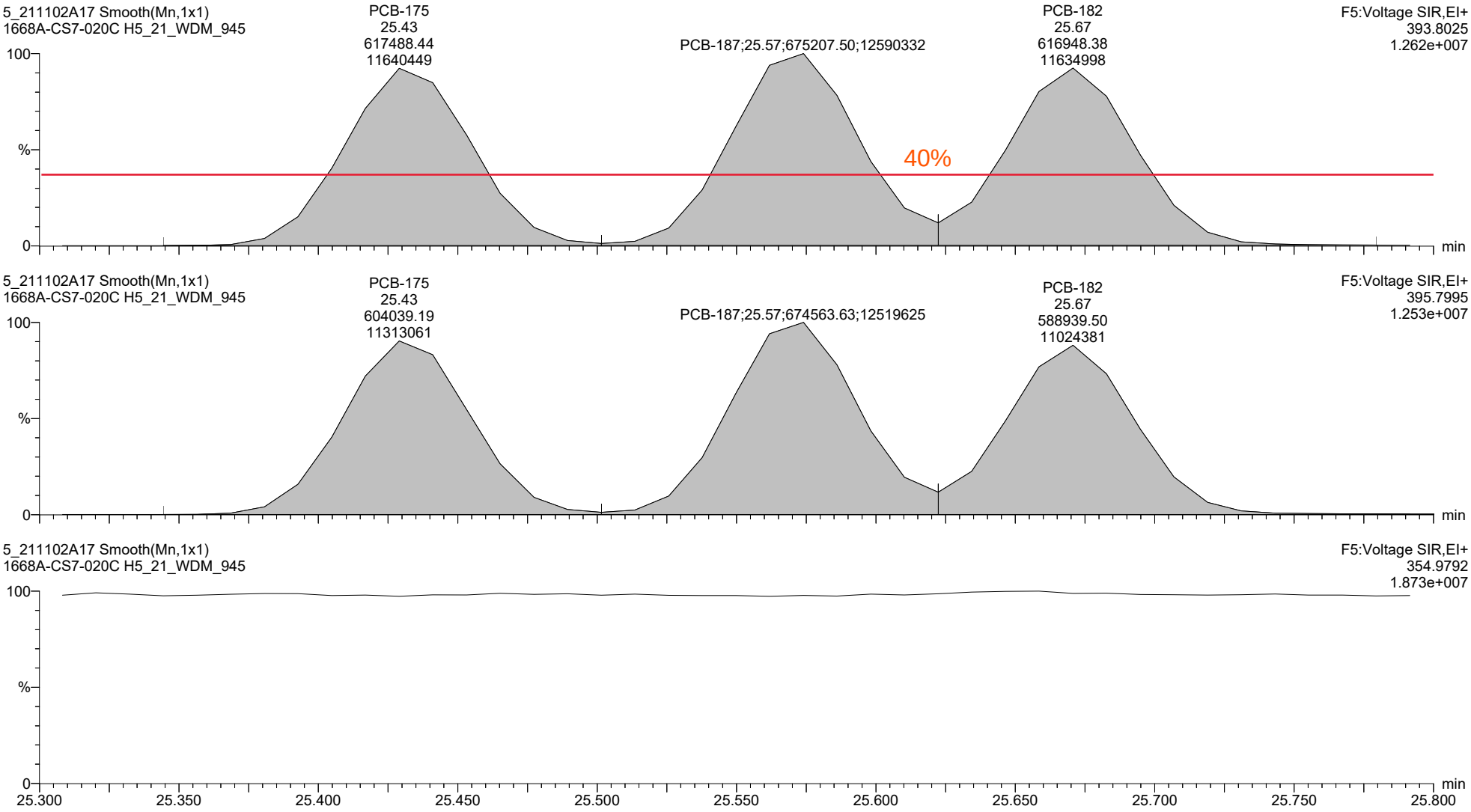
Name: 5_211102A17, Date: 02-Nov-2021, Time: 21:19:40, ID: H5_21_WDM_945, Description: 1668A-CS7-020C, Vial: Tray1:2

PCB-187



Quantify Audit Report MassLynx V4.2 SCN1012

Dataset: I:\Organics Instrument\HIGHRES GCMS Completed Results Files\HR-5\5-211102A2-1108NA.qld

Last Altered: Monday, November 08, 2021 13:43:10 Eastern Standard Time
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Date	Time	Event	Details	Comments
03-Nov-21	08:33:08	Process Extract		
03-Nov-21	08:33:09	Process Integrate		
03-Nov-21	08:33:10	Process Calibrate		
03-Nov-21	08:33:10	Process Quantify		
03-Nov-21	08:33:10	Dataset Created		
03-Nov-21	08:33:42	Dataset Saved	Saved to 'I:\Organics Instrument\HIGHRES GCMS Complete...	
08-Nov-21	12:37:22	Peak added	Sample:5_211102A21, Compound:MoCB-F1, RT:8.981	NA211108MA
08-Nov-21	12:37:47	Pre modification peak	Sample:5_211102A21, Compound:MoCB-F1, RT:10.494	
08-Nov-21	12:37:47	Peak modified	Sample:5_211102A21, Compound:MoCB-F1, RT:10.494	NA211108MB
08-Nov-21	12:38:04	Peak added	Sample:5_211102A22, Compound:MoCB-F1, RT:10.452	NA211108MA
08-Nov-21	12:38:04	Peak added	Sample:5_211102A22, Compound:MoCB-F1, RT:10.340	NA211108MA
08-Nov-21	12:38:04	Pre modification peak	Sample:5_211102A22, Compound:MoCB-F1, RT:10.424	
08-Nov-21	12:38:04	Peak modified	Sample:5_211102A22, Compound:MoCB-F1, RT:10.424	NA211108MA
08-Nov-21	12:38:11	Peak added	Sample:5_211102A22, Compound:MoCB-F1, RT:8.910	NA211108MA
08-Nov-21	12:38:31	Pre modification peak	Sample:5_211102A23, Compound:MoCB-F1, RT:10.438	
08-Nov-21	12:38:31	Peak modified	Sample:5_211102A23, Compound:MoCB-F1, RT:10.438	NA211108MB
08-Nov-21	12:38:31	Pre modification peak	Sample:5_211102A23, Compound:MoCB-F1, RT:10.312	
08-Nov-21	12:38:31	Peak modified	Sample:5_211102A23, Compound:MoCB-F1, RT:10.312	NA211108MB
08-Nov-21	12:38:54	Pre modification peak	Sample:5_211102A24, Compound:MoCB-F1, RT:10.438	
08-Nov-21	12:38:54	Peak modified	Sample:5_211102A24, Compound:MoCB-F1, RT:10.438	NA211108MB
08-Nov-21	12:38:54	Pre modification peak	Sample:5_211102A24, Compound:MoCB-F1, RT:10.326	
08-Nov-21	12:38:54	Peak modified	Sample:5_211102A24, Compound:MoCB-F1, RT:10.326	NA211108MB
08-Nov-21	12:38:54	Pre modification peak	Sample:5_211102A24, Compound:MoCB-F1, RT:8.896	
08-Nov-21	12:38:54	Peak modified	Sample:5_211102A24, Compound:MoCB-F1, RT:8.896	NA211108MB
08-Nov-21	12:39:15	Pre modification peak	Sample:5_211102A21, Compound:DiCB-F1, RT:10.663	
08-Nov-21	12:39:15	Peak modified	Sample:5_211102A21, Compound:DiCB-F1, RT:10.663	NA211108MB
08-Nov-21	12:39:23	Pre modification peak	Sample:5_211102A23, Compound:DiCB-F1, RT:10.592	
08-Nov-21	12:39:23	Peak modified	Sample:5_211102A23, Compound:DiCB-F1, RT:10.592	NA211108MB
08-Nov-21	12:39:50	Peak added	Sample:5_211102A21, Compound:DiCB-F1, RT:12.008	NA211108MB
08-Nov-21	12:39:50	Peak added	Sample:5_211102A21, Compound:DiCB-F1, RT:11.896	NA211108MB
08-Nov-21	12:39:55	Peak added	Sample:5_211102A21, Compound:DiCB-F1, RT:12.176	NA211108MA
08-Nov-21	12:40:07	Pre modification peak	Sample:5_211102A21, Compound:DiCB-F1, RT:12.429	
08-Nov-21	12:40:07	Peak modified	Sample:5_211102A21, Compound:DiCB-F1, RT:12.429	NA211108MB
08-Nov-21	12:40:07	Pre modification peak	Sample:5_211102A21, Compound:DiCB-F1, RT:12.443	
08-Nov-21	12:40:07	Peak modified	Sample:5_211102A21, Compound:DiCB-F1, RT:12.443	NA211108MB
08-Nov-21	12:40:19	Pre modification peak	Sample:5_211102A23, Compound:DiCB-F1, RT:12.120	
08-Nov-21	12:40:19	Peak modified	Sample:5_211102A23, Compound:DiCB-F1, RT:12.120	NA211108MB
08-Nov-21	12:40:27	Peak added	Sample:5_211102A24, Compound:DiCB-F1, RT:12.415	NA211108MA
08-Nov-21	12:40:55	Pre modification peak	Sample:5_211102A23, Compound:DiCB-F2, RT:13.901	
08-Nov-21	12:40:55	Peak modified	Sample:5_211102A23, Compound:DiCB-F2, RT:13.901	NA211108MB
08-Nov-21	12:40:55	Pre modification peak	Sample:5_211102A23, Compound:DiCB-F2, RT:13.901	
08-Nov-21	12:40:55	Peak modified	Sample:5_211102A23, Compound:DiCB-F2, RT:13.901	NA211108MB
08-Nov-21	12:41:03	Pre modification peak	Sample:5_211102A23, Compound:DiCB-F2, RT:14.297	
08-Nov-21	12:41:03	Peak modified	Sample:5_211102A23, Compound:DiCB-F2, RT:14.297	NA211108MB
08-Nov-21	12:41:24	Pre modification peak	Sample:5_211102A24, Compound:DiCB-F2, RT:13.919	
08-Nov-21	12:41:24	Peak modified	Sample:5_211102A24, Compound:DiCB-F2, RT:13.919	NA211108MB
08-Nov-21	12:41:24	Peak added	Sample:5_211102A24, Compound:DiCB-F2, RT:14.306	NA211108MB
08-Nov-21	12:41:24	Pre modification peak	Sample:5_211102A24, Compound:DiCB-F2, RT:14.306	
08-Nov-21	12:41:24	Peak modified	Sample:5_211102A24, Compound:DiCB-F2, RT:14.306	NA211108MB
08-Nov-21	12:41:24	Pre modification peak	Sample:5_211102A24, Compound:DiCB-F2, RT:13.919	
08-Nov-21	12:41:24	Peak modified	Sample:5_211102A24, Compound:DiCB-F2, RT:13.919	NA211108MB
08-Nov-21	12:41:37	Peak added	Sample:5_211102A21, Compound:TrCB-F1, RT:12.639	NA211108MA
08-Nov-21	12:41:56	Pre modification peak	Sample:5_211102A23, Compound:TrCB-F1, RT:12.597	

Quantify Audit Report MassLynx V4.2 SCN1012

Dataset: I:\Organics Instrument\HIGHRES GCMS Completed Results Files\HR-5\5-211102A2-1108NA.qld

Last Altered: Monday, November 08, 2021 13:43:10 Eastern Standard Time
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Date	Time	Event	Details	Comments
08-Nov-21	12:41:56	Peak modified	Sample:5_211102A23, Compound:TrCB-F1, RT:12.597	NA211108MB
08-Nov-21	12:41:56	Pre modification peak	Sample:5_211102A23, Compound:TrCB-F1, RT:12.597	
08-Nov-21	12:41:56	Peak modified	Sample:5_211102A23, Compound:TrCB-F1, RT:12.597	NA211108MB
08-Nov-21	12:42:11	Peak added	Sample:5_211102A24, Compound:TrCB-F1, RT:12.597	NA211108MA
08-Nov-21	12:42:11	Pre modification peak	Sample:5_211102A24, Compound:TrCB-F1, RT:12.611	
08-Nov-21	12:42:11	Peak modified	Sample:5_211102A24, Compound:TrCB-F1, RT:12.611	NA211108MA
08-Nov-21	12:42:38	Peak added	Sample:5_211102A22, Compound:TrCB-F2, RT:14.527	NA211108MA
08-Nov-21	12:43:10	Method modified		
08-Nov-21	12:43:19	Process Calibrate		
08-Nov-21	12:43:19	Process Quantify		
08-Nov-21	12:44:05	Pre modification peak	Sample:5_211102A21, Compound:TrCB-F2, RT:14.260	
08-Nov-21	12:44:05	Peak modified	Sample:5_211102A21, Compound:TrCB-F2, RT:14.260	NA211108MB
08-Nov-21	12:44:33	Pre modification peak	Sample:5_211102A24, Compound:TrCB-F2, RT:14.250	
08-Nov-21	12:44:33	Peak modified	Sample:5_211102A24, Compound:TrCB-F2, RT:14.250	NA211108MB
08-Nov-21	12:44:44	Pre modification peak	Sample:5_211102A24, Compound:TrCB-F2, RT:14.536	
08-Nov-21	12:44:44	Peak modified	Sample:5_211102A24, Compound:TrCB-F2, RT:14.536	NA211108MB
08-Nov-21	12:44:44	Pre modification peak	Sample:5_211102A24, Compound:TrCB-F2, RT:14.536	
08-Nov-21	12:44:44	Peak modified	Sample:5_211102A24, Compound:TrCB-F2, RT:14.536	NA211108MB
08-Nov-21	12:45:07	Peak added	Sample:5_211102A21, Compound:TrCB-F3, RT:15.645	NA211108MA
08-Nov-21	12:45:28	Pre modification peak	Sample:5_211102A23, Compound:TrCB-F3, RT:15.488	
08-Nov-21	12:45:28	Peak modified	Sample:5_211102A23, Compound:TrCB-F3, RT:15.488	NA211108MB
08-Nov-21	12:45:28	Pre modification peak	Sample:5_211102A23, Compound:TrCB-F3, RT:15.635	
08-Nov-21	12:45:28	Peak modified	Sample:5_211102A23, Compound:TrCB-F3, RT:15.635	NA211108MB
08-Nov-21	12:45:45	Pre modification peak	Sample:5_211102A23, Compound:TrCB-F3, RT:15.498	
08-Nov-21	12:45:45	Peak modified	Sample:5_211102A23, Compound:TrCB-F3, RT:15.498	NA211108MB
08-Nov-21	12:45:45	Pre modification peak	Sample:5_211102A23, Compound:TrCB-F3, RT:15.635	
08-Nov-21	12:45:45	Peak modified	Sample:5_211102A23, Compound:TrCB-F3, RT:15.635	NA211108MB
08-Nov-21	12:46:08	Pre modification peak	Sample:5_211102A24, Compound:TrCB-F3, RT:15.517	
08-Nov-21	12:46:08	Peak modified	Sample:5_211102A24, Compound:TrCB-F3, RT:15.517	NA211108MB
08-Nov-21	12:46:08	Pre modification peak	Sample:5_211102A24, Compound:TrCB-F3, RT:15.645	
08-Nov-21	12:46:08	Peak modified	Sample:5_211102A24, Compound:TrCB-F3, RT:15.645	NA211108MB
08-Nov-21	12:46:08	Pre modification peak	Sample:5_211102A24, Compound:TrCB-F3, RT:15.517	
08-Nov-21	12:46:08	Peak modified	Sample:5_211102A24, Compound:TrCB-F3, RT:15.517	NA211108MB
08-Nov-21	12:46:23	Peak modified	Sample:5_211102A24, Compound:TrCB-F3, RT:15.645	NA211108MB
08-Nov-21	12:48:44	Peak added	Sample:5_211102A22, Compound:TrCB-F3, RT:15.860	NA211108MA
08-Nov-21	12:48:44	Peak added	Sample:5_211102A22, Compound:TrCB-F3, RT:15.860	NA211108MA
08-Nov-21	12:48:50	Peak added	Sample:5_211102A22, Compound:TrCB-F3, RT:16.154	NA211108MA
08-Nov-21	12:49:07	Pre modification peak	Sample:5_211102A23, Compound:TrCB-F3, RT:15.987	
08-Nov-21	12:49:07	Peak modified	Sample:5_211102A23, Compound:TrCB-F3, RT:15.987	NA211108MB
08-Nov-21	12:49:07	Pre modification peak	Sample:5_211102A23, Compound:TrCB-F3, RT:16.124	
08-Nov-21	12:49:07	Peak modified	Sample:5_211102A23, Compound:TrCB-F3, RT:16.124	NA211108MB
08-Nov-21	12:49:39	Pre modification peak	Sample:5_211102A24, Compound:TrCB-F3, RT:16.007	
08-Nov-21	12:49:39	Peak modified	Sample:5_211102A24, Compound:TrCB-F3, RT:16.007	NA211108MB
08-Nov-21	12:49:39	Pre modification peak	Sample:5_211102A24, Compound:TrCB-F3, RT:16.154	
08-Nov-21	12:49:39	Peak modified	Sample:5_211102A24, Compound:TrCB-F3, RT:16.154	NA211108MB
08-Nov-21	12:50:17	Peak added	Sample:5_211102A22, Compound:TrCB-F3, RT:18.278	NA211108MA
08-Nov-21	12:50:17	Peak added	Sample:5_211102A22, Compound:TrCB-F3, RT:18.288	NA211108MA
08-Nov-21	12:50:26	Pre modification peak	Sample:5_211102A23, Compound:TrCB-F3, RT:18.239	
08-Nov-21	12:50:26	Peak modified	Sample:5_211102A23, Compound:TrCB-F3, RT:18.239	NA211108MB
08-Nov-21	12:50:43	Pre modification peak	Sample:5_211102A24, Compound:TrCB-F3, RT:18.023	
08-Nov-21	12:50:43	Peak modified	Sample:5_211102A24, Compound:TrCB-F3, RT:18.023	NA211108MB
08-Nov-21	12:50:43	Pre modification peak	Sample:5_211102A24, Compound:TrCB-F3, RT:18.013	
08-Nov-21	12:50:43	Peak modified	Sample:5_211102A24, Compound:TrCB-F3, RT:18.013	NA211108MB

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Date	Time	Event	Details	Comments
08-Nov-21	12:51:29	Pre modification peak	Sample:5_211102A24, Compound:TeCB-F3, RT:16.242	
08-Nov-21	12:51:29	Peak modified	Sample:5_211102A24, Compound:TeCB-F3, RT:16.242	NA211108MB
08-Nov-21	12:51:37	Pre modification peak	Sample:5_211102A24, Compound:TeCB-F3, RT:15.674	
08-Nov-21	12:51:37	Peak modified	Sample:5_211102A24, Compound:TeCB-F3, RT:15.674	NA211108MB
08-Nov-21	12:51:37	Pre modification peak	Sample:5_211102A24, Compound:TeCB-F3, RT:15.038	
08-Nov-21	12:51:37	Peak modified	Sample:5_211102A24, Compound:TeCB-F3, RT:15.038	NA211108MB
08-Nov-21	12:52:02	Pre modification peak	Sample:5_211102A21, Compound:TeCB-F3, RT:17.426	
08-Nov-21	12:52:02	Peak modified	Sample:5_211102A21, Compound:TeCB-F3, RT:17.426	NA211108MB
08-Nov-21	12:52:14	Peak added	Sample:5_211102A22, Compound:TeCB-F3, RT:17.270	NA211108MA
08-Nov-21	12:52:14	Peak added	Sample:5_211102A22, Compound:TeCB-F3, RT:16.996	NA211108MA
08-Nov-21	12:52:31	Pre modification peak	Sample:5_211102A23, Compound:TeCB-F3, RT:16.976	
08-Nov-21	12:52:31	Peak modified	Sample:5_211102A23, Compound:TeCB-F3, RT:16.976	NA211108MB
08-Nov-21	12:52:31	Pre modification peak	Sample:5_211102A23, Compound:TeCB-F3, RT:17.113	
08-Nov-21	12:52:31	Peak modified	Sample:5_211102A23, Compound:TeCB-F3, RT:17.113	NA211108MB
08-Nov-21	12:52:54	Pre modification peak	Sample:5_211102A24, Compound:TeCB-F3, RT:16.996	
08-Nov-21	12:52:54	Peak modified	Sample:5_211102A24, Compound:TeCB-F3, RT:16.996	NA211108MB
08-Nov-21	12:52:54	Pre modification peak	Sample:5_211102A24, Compound:TeCB-F3, RT:17.132	
08-Nov-21	12:52:54	Peak modified	Sample:5_211102A24, Compound:TeCB-F3, RT:17.132	NA211108MB
08-Nov-21	12:53:18	Pre modification peak	Sample:5_211102A21, Compound:TeCB-F3, RT:18.043	
08-Nov-21	12:53:18	Peak modified	Sample:5_211102A21, Compound:TeCB-F3, RT:18.043	NA211108MB
08-Nov-21	12:53:18	Pre modification peak	Sample:5_211102A21, Compound:TeCB-F3, RT:18.121	
08-Nov-21	12:53:18	Peak modified	Sample:5_211102A21, Compound:TeCB-F3, RT:18.121	NA211108MB
08-Nov-21	12:53:32	Pre modification peak	Sample:5_211102A21, Compound:TeCB-F3, RT:17.739	
08-Nov-21	12:53:32	Peak modified	Sample:5_211102A21, Compound:TeCB-F3, RT:17.739	NA211108MB
08-Nov-21	12:53:46	Pre modification peak	Sample:5_211102A24, Compound:TeCB-F3, RT:17.857	
08-Nov-21	12:53:46	Peak modified	Sample:5_211102A24, Compound:TeCB-F3, RT:17.857	NA211108MB
08-Nov-21	12:54:13	Peak added	Sample:5_211102A23, Compound:TeCB-F4, RT:19.256	NA211108MA
08-Nov-21	12:54:23	Pre modification peak	Sample:5_211102A23, Compound:TeCB-F4, RT:19.394	
08-Nov-21	12:54:23	Peak modified	Sample:5_211102A23, Compound:TeCB-F4, RT:19.394	NA211108MB
08-Nov-21	12:54:32	Pre modification peak	Sample:5_211102A23, Compound:TeCB-F4, RT:18.793	
08-Nov-21	12:54:32	Peak modified	Sample:5_211102A23, Compound:TeCB-F4, RT:18.793	NA211108MB
08-Nov-21	12:55:03	Pre modification peak	Sample:5_211102A23, Compound:TeCB-F4, RT:19.154	
08-Nov-21	12:55:03	Peak modified	Sample:5_211102A23, Compound:TeCB-F4, RT:19.154	NA211108MS
08-Nov-21	12:55:03	Pre modification peak	Sample:5_211102A23, Compound:TeCB-F4, RT:19.163	
08-Nov-21	12:55:03	Peak modified	Sample:5_211102A23, Compound:TeCB-F4, RT:19.163	NA211108MS
08-Nov-21	12:55:20	Pre modification peak	Sample:5_211102A24, Compound:TeCB-F4, RT:19.181	
08-Nov-21	12:55:20	Peak modified	Sample:5_211102A24, Compound:TeCB-F4, RT:19.181	NA211108MA
08-Nov-21	12:55:20	Pre modification peak	Sample:5_211102A24, Compound:TeCB-F4, RT:19.172	
08-Nov-21	12:55:20	Peak modified	Sample:5_211102A24, Compound:TeCB-F4, RT:19.172	NA211108MA
08-Nov-21	12:55:31	Peak added	Sample:5_211102A24, Compound:TeCB-F4, RT:19.274	NA211108MA
08-Nov-21	12:55:31	Peak added	Sample:5_211102A24, Compound:TeCB-F4, RT:19.274	NA211108MA
08-Nov-21	12:56:07	Pre modification peak	Sample:5_211102A21, Compound:TeCB-F4, RT:20.153	
08-Nov-21	12:56:07	Peak modified	Sample:5_211102A21, Compound:TeCB-F4, RT:20.153	NA211108MB
08-Nov-21	12:56:07	Pre modification peak	Sample:5_211102A21, Compound:TeCB-F4, RT:20.264	
08-Nov-21	12:56:07	Peak modified	Sample:5_211102A21, Compound:TeCB-F4, RT:20.264	NA211108MB
08-Nov-21	12:56:18	Pre modification peak	Sample:5_211102A21, Compound:TeCB-F4, RT:20.273	
08-Nov-21	12:56:18	Peak modified	Sample:5_211102A21, Compound:TeCB-F4, RT:20.273	NA211108MB
08-Nov-21	12:56:30	Peak added	Sample:5_211102A22, Compound:TeCB-F4, RT:19.783	NA211108MA
08-Nov-21	12:56:46	Peak added	Sample:5_211102A22, Compound:TeCB-F4, RT:19.616	NA211108MA
08-Nov-21	12:56:46	Peak added	Sample:5_211102A22, Compound:TeCB-F4, RT:19.607	NA211108MA
08-Nov-21	12:57:05	Pre modification peak	Sample:5_211102A23, Compound:TeCB-F4, RT:19.773	
08-Nov-21	12:57:05	Peak modified	Sample:5_211102A23, Compound:TeCB-F4, RT:19.773	NA211108MB
08-Nov-21	12:57:05	Pre modification peak	Sample:5_211102A23, Compound:TeCB-F4, RT:19.857	

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08-Nov-21	12:57:05	Peak modified	Sample:5_211102A23, Compound:TeCB-F4, RT:19.857	NA211108MB
08-Nov-21	12:57:46	Pre modification peak	Sample:5_211102A23, Compound:TeCB-F4, RT:21.253	
08-Nov-21	12:57:46	Peak modified	Sample:5_211102A23, Compound:TeCB-F4, RT:21.253	NA211108MS
08-Nov-21	12:57:46	Pre modification peak	Sample:5_211102A23, Compound:TeCB-F4, RT:21.253	
08-Nov-21	12:57:46	Peak modified	Sample:5_211102A23, Compound:TeCB-F4, RT:21.253	NA211108MS
08-Nov-21	12:57:58	Peak added	Sample:5_211102A23, Compound:TeCB-F4, RT:21.827	NA211108MA
08-Nov-21	12:58:57	Pre modification peak	Sample:5_211102A24, Compound:TeCB-F4, RT:21.263	
08-Nov-21	12:58:57	Peak modified	Sample:5_211102A24, Compound:TeCB-F4, RT:21.263	NA211108MS
08-Nov-21	12:58:57	Pre modification peak	Sample:5_211102A24, Compound:TeCB-F4, RT:21.272	
08-Nov-21	12:58:57	Peak modified	Sample:5_211102A24, Compound:TeCB-F4, RT:21.272	NA211108MS
08-Nov-21	12:59:17	Peak added	Sample:5_211102A24, Compound:TeCB-F4, RT:21.743	NA211108MA
08-Nov-21	13:00:43	Pre modification peak	Sample:5_211102A17, Compound:PeCB-F4, RT:19.228	
08-Nov-21	13:00:43	Peak modified	Sample:5_211102A17, Compound:PeCB-F4, RT:19.228	NA211108MJ
08-Nov-21	13:00:43	Pre modification peak	Sample:5_211102A17, Compound:PeCB-F4, RT:18.534	
08-Nov-21	13:00:43	Peak modified	Sample:5_211102A17, Compound:PeCB-F4, RT:18.534	NA211108MJ
08-Nov-21	13:00:43	Pre modification peak	Sample:5_211102A17, Compound:PeCB-F4, RT:18.534	
08-Nov-21	13:00:43	Peak modified	Sample:5_211102A17, Compound:PeCB-F4, RT:18.534	NA211108MJ
08-Nov-21	13:00:43	Pre modification peak	Sample:5_211102A17, Compound:PeCB-F4, RT:18.534	
08-Nov-21	13:00:43	Peak modified	Sample:5_211102A17, Compound:PeCB-F4, RT:18.534	NA211108MJ
08-Nov-21	13:00:43	Pre modification peak	Sample:5_211102A17, Compound:PeCB-F4, RT:18.534	
08-Nov-21	13:00:43	Peak modified	Sample:5_211102A17, Compound:PeCB-F4, RT:18.534	NA211108MJ
08-Nov-21	13:00:43	Pre modification peak	Sample:5_211102A17, Compound:PeCB-F4, RT:19.607	
08-Nov-21	13:00:43	Peak modified	Sample:5_211102A17, Compound:PeCB-F4, RT:19.607	NA211108MJ
08-Nov-21	13:00:43	Pre modification peak	Sample:5_211102A17, Compound:PeCB-F4, RT:19.228	
08-Nov-21	13:00:43	Peak modified	Sample:5_211102A17, Compound:PeCB-F4, RT:19.228	NA211108MJ
08-Nov-21	13:00:43	Pre modification peak	Sample:5_211102A17, Compound:PeCB-F4, RT:18.534	
08-Nov-21	13:00:43	Peak modified	Sample:5_211102A17, Compound:PeCB-F4, RT:18.534	NA211108MJ
08-Nov-21	13:00:43	Pre modification peak	Sample:5_211102A17, Compound:PeCB-F4, RT:18.534	
08-Nov-21	13:00:43	Peak modified	Sample:5_211102A17, Compound:PeCB-F4, RT:18.534	NA211108MJ
08-Nov-21	13:00:43	Pre modification peak	Sample:5_211102A17, Compound:PeCB-F4, RT:18.534	
08-Nov-21	13:00:43	Peak modified	Sample:5_211102A17, Compound:PeCB-F4, RT:18.534	NA211108MJ
08-Nov-21	13:00:43	Pre modification peak	Sample:5_211102A17, Compound:PeCB-F4, RT:18.534	
08-Nov-21	13:00:43	Peak modified	Sample:5_211102A17, Compound:PeCB-F4, RT:18.534	NA211108MJ
08-Nov-21	13:00:43	Pre modification peak	Sample:5_211102A17, Compound:PeCB-F4, RT:19.616	
08-Nov-21	13:00:43	Peak modified	Sample:5_211102A17, Compound:PeCB-F4, RT:19.616	NA211108MJ
08-Nov-21	13:01:11	Pre modification peak	Sample:5_211102A17, Compound:PeCB-F4, RT:18.534	
08-Nov-21	13:01:11	Peak modified	Sample:5_211102A17, Compound:PeCB-F4, RT:18.534	NA211108MJ
08-Nov-21	13:01:11	Pre modification peak	Sample:5_211102A17, Compound:PeCB-F4, RT:21.679	
08-Nov-21	13:01:11	Peak modified	Sample:5_211102A17, Compound:PeCB-F4, RT:21.679	NA211108MJ
08-Nov-21	13:01:11	Pre modification peak	Sample:5_211102A17, Compound:PeCB-F4, RT:18.534	
08-Nov-21	13:01:11	Peak modified	Sample:5_211102A17, Compound:PeCB-F4, RT:18.534	NA211108MJ
08-Nov-21	13:01:11	Pre modification peak	Sample:5_211102A17, Compound:PeCB-F4, RT:18.534	
08-Nov-21	13:01:11	Peak modified	Sample:5_211102A17, Compound:PeCB-F4, RT:18.534	NA211108MJ
08-Nov-21	13:01:11	Pre modification peak	Sample:5_211102A17, Compound:PeCB-F4, RT:21.679	
08-Nov-21	13:01:11	Peak modified	Sample:5_211102A17, Compound:PeCB-F4, RT:21.679	NA211108MJ
08-Nov-21	13:01:11	Pre modification peak	Sample:5_211102A17, Compound:PeCB-F4, RT:18.534	
08-Nov-21	13:01:11	Peak modified	Sample:5_211102A17, Compound:PeCB-F4, RT:18.534	NA211108MJ
08-Nov-21	13:01:49	Pre modification peak	Sample:5_211102A22, Compound:PeCB-F4, RT:19.154	
08-Nov-21	13:01:49	Peak modified	Sample:5_211102A22, Compound:PeCB-F4, RT:19.154	NA211108MB
08-Nov-21	13:01:49	Pre modification peak	Sample:5_211102A22, Compound:PeCB-F4, RT:19.163	
08-Nov-21	13:01:49	Peak modified	Sample:5_211102A22, Compound:PeCB-F4, RT:19.163	NA211108MB
08-Nov-21	13:01:49	Pre modification peak	Sample:5_211102A22, Compound:PeCB-F4, RT:19.191	
08-Nov-21	13:01:49	Peak modified	Sample:5_211102A22, Compound:PeCB-F4, RT:19.191	NA211108MB

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08-Nov-21	13:02:21	Pre modification peak	Sample:5_211102A23, Compound:PeCB-F4, RT:19.126	
08-Nov-21	13:02:21	Peak modified	Sample:5_211102A23, Compound:PeCB-F4, RT:19.126	NA211108MJ
08-Nov-21	13:02:21	Pre modification peak	Sample:5_211102A23, Compound:PeCB-F4, RT:18.534	
08-Nov-21	13:02:21	Peak modified	Sample:5_211102A23, Compound:PeCB-F4, RT:18.534	NA211108MJ
08-Nov-21	13:02:21	Pre modification peak	Sample:5_211102A23, Compound:PeCB-F4, RT:19.302	
08-Nov-21	13:02:21	Peak modified	Sample:5_211102A23, Compound:PeCB-F4, RT:19.302	NA211108MJ
08-Nov-21	13:02:21	Pre modification peak	Sample:5_211102A23, Compound:PeCB-F4, RT:18.534	
08-Nov-21	13:02:21	Peak modified	Sample:5_211102A23, Compound:PeCB-F4, RT:18.534	NA211108MJ
08-Nov-21	13:02:21	Pre modification peak	Sample:5_211102A23, Compound:PeCB-F4, RT:19.302	
08-Nov-21	13:02:21	Peak modified	Sample:5_211102A23, Compound:PeCB-F4, RT:19.302	NA211108MJ
08-Nov-21	13:03:36	Pre modification peak	Sample:5_211102A24, Compound:PeCB-F4, RT:19.135	
08-Nov-21	13:03:36	Peak modified	Sample:5_211102A24, Compound:PeCB-F4, RT:19.135	NA211108MJ
08-Nov-21	13:03:36	Pre modification peak	Sample:5_211102A24, Compound:PeCB-F4, RT:19.219	
08-Nov-21	13:03:36	Peak modified	Sample:5_211102A24, Compound:PeCB-F4, RT:19.219	NA211108MJ
08-Nov-21	13:03:36	Pre modification peak	Sample:5_211102A24, Compound:PeCB-F4, RT:19.228	
08-Nov-21	13:03:36	Peak modified	Sample:5_211102A24, Compound:PeCB-F4, RT:19.228	NA211108MJ
08-Nov-21	13:03:36	Pre modification peak	Sample:5_211102A24, Compound:PeCB-F4, RT:19.348	
08-Nov-21	13:03:36	Peak modified	Sample:5_211102A24, Compound:PeCB-F4, RT:19.348	NA211108MJ
08-Nov-21	13:03:36	Pre modification peak	Sample:5_211102A24, Compound:PeCB-F4, RT:19.135	
08-Nov-21	13:03:36	Peak modified	Sample:5_211102A24, Compound:PeCB-F4, RT:19.135	NA211108MJ
08-Nov-21	13:03:36	Pre modification peak	Sample:5_211102A24, Compound:PeCB-F4, RT:19.302	
08-Nov-21	13:03:36	Peak modified	Sample:5_211102A24, Compound:PeCB-F4, RT:19.302	NA211108MJ
08-Nov-21	13:04:10	Pre modification peak	Sample:5_211102A21, Compound:PeCB-F4, RT:20.652	
08-Nov-21	13:04:10	Peak modified	Sample:5_211102A21, Compound:PeCB-F4, RT:20.652	NA211108MB
08-Nov-21	13:04:25	Process Calibrate		
08-Nov-21	13:04:25	Process Quantify		
08-Nov-21	13:04:39	Pre modification peak	Sample:5_211102A24, Compound:PeCB-F4, RT:20.162	
08-Nov-21	13:04:39	Peak modified	Sample:5_211102A24, Compound:PeCB-F4, RT:20.162	
08-Nov-21	13:04:46	Peak modified	Sample:5_211102A24, Compound:PeCB-F4, RT:18.534	
08-Nov-21	13:05:28	Pre modification peak	Sample:5_211102A21, Compound:PeCB-F4, RT:21.253	
08-Nov-21	13:05:28	Peak modified	Sample:5_211102A21, Compound:PeCB-F4, RT:21.253	NA211108MJ
08-Nov-21	13:05:28	Pre modification peak	Sample:5_211102A21, Compound:PeCB-F4, RT:18.534	
08-Nov-21	13:05:28	Peak modified	Sample:5_211102A21, Compound:PeCB-F4, RT:18.534	NA211108MJ
08-Nov-21	13:05:28	Pre modification peak	Sample:5_211102A21, Compound:PeCB-F4, RT:21.318	
08-Nov-21	13:05:28	Peak modified	Sample:5_211102A21, Compound:PeCB-F4, RT:21.318	NA211108MJ
08-Nov-21	13:05:28	Pre modification peak	Sample:5_211102A21, Compound:PeCB-F4, RT:18.534	
08-Nov-21	13:05:28	Peak modified	Sample:5_211102A21, Compound:PeCB-F4, RT:18.534	NA211108MJ
08-Nov-21	13:05:47	Pre modification peak	Sample:5_211102A22, Compound:PeCB-F4, RT:20.966	
08-Nov-21	13:05:47	Peak modified	Sample:5_211102A22, Compound:PeCB-F4, RT:20.966	NA211108MB
08-Nov-21	13:06:07	Pre modification peak	Sample:5_211102A23, Compound:PeCB-F4, RT:21.309	
08-Nov-21	13:06:07	Peak modified	Sample:5_211102A23, Compound:PeCB-F4, RT:21.309	NA211108MJ
08-Nov-21	13:06:07	Pre modification peak	Sample:5_211102A23, Compound:PeCB-F4, RT:18.534	
08-Nov-21	13:06:07	Peak modified	Sample:5_211102A23, Compound:PeCB-F4, RT:18.534	NA211108MJ
08-Nov-21	13:06:07	Pre modification peak	Sample:5_211102A23, Compound:PeCB-F4, RT:21.309	
08-Nov-21	13:06:07	Peak modified	Sample:5_211102A23, Compound:PeCB-F4, RT:21.309	NA211108MJ
08-Nov-21	13:06:07	Pre modification peak	Sample:5_211102A23, Compound:PeCB-F4, RT:18.534	
08-Nov-21	13:06:07	Peak modified	Sample:5_211102A23, Compound:PeCB-F4, RT:18.534	NA211108MJ
08-Nov-21	13:06:25	Pre modification peak	Sample:5_211102A24, Compound:PeCB-F4, RT:21.318	
08-Nov-21	13:06:25	Peak modified	Sample:5_211102A24, Compound:PeCB-F4, RT:21.318	NA211108MJ
08-Nov-21	13:06:25	Pre modification peak	Sample:5_211102A24, Compound:PeCB-F4, RT:18.534	
08-Nov-21	13:06:25	Peak modified	Sample:5_211102A24, Compound:PeCB-F4, RT:18.534	NA211108MJ
08-Nov-21	13:06:25	Pre modification peak	Sample:5_211102A24, Compound:PeCB-F4, RT:21.318	
08-Nov-21	13:06:25	Peak modified	Sample:5_211102A24, Compound:PeCB-F4, RT:21.318	NA211108MJ

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Date	Time	Event	Details	Comments
08-Nov-21	13:06:25	Pre modification peak	Sample:5_211102A24, Compound:PeCB-F4, RT:18.534	
08-Nov-21	13:06:25	Peak modified	Sample:5_211102A24, Compound:PeCB-F4, RT:18.534	NA211108MJ
08-Nov-21	13:07:06	Pre modification peak	Sample:5_211102A21, Compound:PeCB-F4, RT:21.734	
08-Nov-21	13:07:06	Peak modified	Sample:5_211102A21, Compound:PeCB-F4, RT:21.734	NA211108MJ
08-Nov-21	13:07:06	Pre modification peak	Sample:5_211102A21, Compound:PeCB-F4, RT:21.734	
08-Nov-21	13:07:06	Peak modified	Sample:5_211102A21, Compound:PeCB-F4, RT:21.734	NA211108MJ
08-Nov-21	13:07:06	Pre modification peak	Sample:5_211102A21, Compound:PeCB-F4, RT:21.817	
08-Nov-21	13:07:06	Peak modified	Sample:5_211102A21, Compound:PeCB-F4, RT:21.817	NA211108MJ
08-Nov-21	13:07:35	Peak added	Sample:5_211102A22, Compound:PeCB-F4, RT:21.743	NA211108MJ
08-Nov-21	13:07:35	Pre modification peak	Sample:5_211102A22, Compound:PeCB-F4, RT:21.734	
08-Nov-21	13:07:35	Peak modified	Sample:5_211102A22, Compound:PeCB-F4, RT:21.734	NA211108MJ
08-Nov-21	13:07:35	Pre modification peak	Sample:5_211102A22, Compound:PeCB-F4, RT:21.780	
08-Nov-21	13:07:35	Peak modified	Sample:5_211102A22, Compound:PeCB-F4, RT:21.780	NA211108MJ
08-Nov-21	13:08:03	Pre modification peak	Sample:5_211102A23, Compound:PeCB-F4, RT:18.534	
08-Nov-21	13:08:03	Peak modified	Sample:5_211102A23, Compound:PeCB-F4, RT:18.534	NA211108MJ
08-Nov-21	13:08:03	Pre modification peak	Sample:5_211102A23, Compound:PeCB-F4, RT:21.725	
08-Nov-21	13:08:03	Peak modified	Sample:5_211102A23, Compound:PeCB-F4, RT:21.725	NA211108MJ
08-Nov-21	13:08:03	Pre modification peak	Sample:5_211102A23, Compound:PeCB-F4, RT:21.827	
08-Nov-21	13:08:03	Peak modified	Sample:5_211102A23, Compound:PeCB-F4, RT:21.827	NA211108MJ
08-Nov-21	13:08:03	Pre modification peak	Sample:5_211102A23, Compound:PeCB-F4, RT:21.521	
08-Nov-21	13:08:03	Peak modified	Sample:5_211102A23, Compound:PeCB-F4, RT:21.521	NA211108MJ
08-Nov-21	13:08:03	Pre modification peak	Sample:5_211102A23, Compound:PeCB-F4, RT:21.725	
08-Nov-21	13:08:03	Peak modified	Sample:5_211102A23, Compound:PeCB-F4, RT:21.725	NA211108MJ
08-Nov-21	13:08:03	Pre modification peak	Sample:5_211102A23, Compound:PeCB-F4, RT:21.845	
08-Nov-21	13:08:03	Peak modified	Sample:5_211102A23, Compound:PeCB-F4, RT:21.845	NA211108MJ
08-Nov-21	13:08:23	Pre modification peak	Sample:5_211102A23, Compound:PeCB-F4, RT:22.076	
08-Nov-21	13:08:23	Peak modified	Sample:5_211102A23, Compound:PeCB-F4, RT:22.076	NA211108MB
08-Nov-21	13:08:23	Pre modification peak	Sample:5_211102A23, Compound:PeCB-F4, RT:22.086	
08-Nov-21	13:08:23	Peak modified	Sample:5_211102A23, Compound:PeCB-F4, RT:22.086	NA211108MB
08-Nov-21	13:08:44	Pre modification peak	Sample:5_211102A23, Compound:PeCB-F4, RT:22.271	
08-Nov-21	13:08:44	Peak modified	Sample:5_211102A23, Compound:PeCB-F4, RT:22.271	NA211108MB
08-Nov-21	13:08:44	Pre modification peak	Sample:5_211102A23, Compound:PeCB-F4, RT:22.271	
08-Nov-21	13:08:44	Peak modified	Sample:5_211102A23, Compound:PeCB-F4, RT:22.271	NA211108MB
08-Nov-21	13:09:01	Peak modified	Sample:5_211102A23, Compound:PeCB-F4, RT:21.725	NA211108MB
08-Nov-21	13:09:01	Peak modified	Sample:5_211102A23, Compound:PeCB-F4, RT:21.725	NA211108MB
08-Nov-21	13:09:31	Pre modification peak	Sample:5_211102A24, Compound:PeCB-F4, RT:21.540	
08-Nov-21	13:09:31	Peak modified	Sample:5_211102A24, Compound:PeCB-F4, RT:21.540	NA211108MJ
08-Nov-21	13:09:31	Pre modification peak	Sample:5_211102A24, Compound:PeCB-F4, RT:21.734	
08-Nov-21	13:09:31	Peak modified	Sample:5_211102A24, Compound:PeCB-F4, RT:21.734	NA211108MJ
08-Nov-21	13:09:31	Pre modification peak	Sample:5_211102A24, Compound:PeCB-F4, RT:21.827	
08-Nov-21	13:09:31	Peak modified	Sample:5_211102A24, Compound:PeCB-F4, RT:21.827	NA211108MJ
08-Nov-21	13:09:31	Pre modification peak	Sample:5_211102A24, Compound:PeCB-F4, RT:21.549	
08-Nov-21	13:09:31	Peak modified	Sample:5_211102A24, Compound:PeCB-F4, RT:21.549	NA211108MJ
08-Nov-21	13:09:31	Pre modification peak	Sample:5_211102A24, Compound:PeCB-F4, RT:21.734	
08-Nov-21	13:09:31	Peak modified	Sample:5_211102A24, Compound:PeCB-F4, RT:21.734	NA211108MJ
08-Nov-21	13:09:31	Pre modification peak	Sample:5_211102A24, Compound:PeCB-F4, RT:21.854	
08-Nov-21	13:09:31	Peak modified	Sample:5_211102A24, Compound:PeCB-F4, RT:21.854	NA211108MJ
08-Nov-21	13:09:41	Pre modification peak	Sample:5_211102A24, Compound:PeCB-F4, RT:21.928	
08-Nov-21	13:09:41	Peak modified	Sample:5_211102A24, Compound:PeCB-F4, RT:21.928	NA211108MB
08-Nov-21	13:10:16	Pre modification peak	Sample:5_211102A21, Compound:PeCB-F5, RT:23.278	
08-Nov-21	13:10:16	Peak modified	Sample:5_211102A21, Compound:PeCB-F5, RT:23.278	NA211108MB
08-Nov-21	13:10:16	Pre modification peak	Sample:5_211102A21, Compound:PeCB-F5, RT:23.278	
08-Nov-21	13:10:16	Peak modified	Sample:5_211102A21, Compound:PeCB-F5, RT:23.278	NA211108MB

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08-Nov-21	13:10:31	Pre modification peak	Sample:5_211102A22, Compound:PeCB-F5, RT:23.290	
08-Nov-21	13:10:31	Peak modified	Sample:5_211102A22, Compound:PeCB-F5, RT:23.290	NA211108MB
08-Nov-21	13:10:31	Pre modification peak	Sample:5_211102A22, Compound:PeCB-F5, RT:23.278	
08-Nov-21	13:10:31	Peak modified	Sample:5_211102A22, Compound:PeCB-F5, RT:23.278	NA211108MB
08-Nov-21	13:10:55	Pre modification peak	Sample:5_211102A23, Compound:PeCB-F5, RT:23.037	
08-Nov-21	13:10:55	Peak modified	Sample:5_211102A23, Compound:PeCB-F5, RT:23.037	NA211108MS
08-Nov-21	13:10:55	Peak added	Sample:5_211102A23, Compound:PeCB-F5, RT:23.085	NA211108MS
08-Nov-21	13:10:55	Pre modification peak	Sample:5_211102A23, Compound:PeCB-F5, RT:23.278	
08-Nov-21	13:10:55	Peak modified	Sample:5_211102A23, Compound:PeCB-F5, RT:23.278	NA211108MS
08-Nov-21	13:11:11	Pre modification peak	Sample:5_211102A23, Compound:PeCB-F5, RT:23.472	
08-Nov-21	13:11:11	Peak modified	Sample:5_211102A23, Compound:PeCB-F5, RT:23.472	NA211108MB
08-Nov-21	13:11:56	Pre modification peak	Sample:5_211102A24, Compound:PeCB-F5, RT:23.036	
08-Nov-21	13:11:56	Peak modified	Sample:5_211102A24, Compound:PeCB-F5, RT:23.036	NA211108MB
08-Nov-21	13:11:56	Pre modification peak	Sample:5_211102A24, Compound:PeCB-F5, RT:23.580	
08-Nov-21	13:11:56	Peak modified	Sample:5_211102A24, Compound:PeCB-F5, RT:23.580	NA211108MB
08-Nov-21	13:11:56	Peak added	Sample:5_211102A24, Compound:PeCB-F5, RT:23.109	NA211108MB
08-Nov-21	13:11:56	Pre modification peak	Sample:5_211102A24, Compound:PeCB-F5, RT:23.048	
08-Nov-21	13:11:56	Peak modified	Sample:5_211102A24, Compound:PeCB-F5, RT:23.048	NA211108MB
08-Nov-21	13:11:56	Pre modification peak	Sample:5_211102A24, Compound:PeCB-F5, RT:23.278	
08-Nov-21	13:11:56	Peak modified	Sample:5_211102A24, Compound:PeCB-F5, RT:23.278	NA211108MB
08-Nov-21	13:11:56	Pre modification peak	Sample:5_211102A24, Compound:PeCB-F5, RT:23.580	
08-Nov-21	13:11:56	Peak modified	Sample:5_211102A24, Compound:PeCB-F5, RT:23.580	NA211108MB
08-Nov-21	13:11:56	Peak added	Sample:5_211102A24, Compound:PeCB-F5, RT:23.097	NA211108MB
08-Nov-21	13:12:30	Pre modification peak	Sample:5_211102A22, Compound:PeCB-F5, RT:23.931	
08-Nov-21	13:12:30	Peak modified	Sample:5_211102A22, Compound:PeCB-F5, RT:23.931	NA211108MB
08-Nov-21	13:14:19	Pre modification peak	Sample:5_211102A23, Compound:PeCB-F5, RT:25.526	
08-Nov-21	13:14:19	Peak modified	Sample:5_211102A23, Compound:PeCB-F5, RT:25.526	NA211108MS
08-Nov-21	13:14:19	Pre modification peak	Sample:5_211102A23, Compound:PeCB-F5, RT:25.514	
08-Nov-21	13:14:19	Peak modified	Sample:5_211102A23, Compound:PeCB-F5, RT:25.514	NA211108MS
08-Nov-21	13:14:50	Pre modification peak	Sample:5_211102A21, Compound:HxCB-F4, RT:20.486	
08-Nov-21	13:14:50	Peak modified	Sample:5_211102A21, Compound:HxCB-F4, RT:20.486	NA211108MJ
08-Nov-21	13:14:50	Pre modification peak	Sample:5_211102A21, Compound:HxCB-F4, RT:20.504	
08-Nov-21	13:14:50	Peak modified	Sample:5_211102A21, Compound:HxCB-F4, RT:20.504	NA211108MJ
08-Nov-21	13:15:06	Pre modification peak	Sample:5_211102A23, Compound:HxCB-F4, RT:20.735	
08-Nov-21	13:15:06	Peak modified	Sample:5_211102A23, Compound:HxCB-F4, RT:20.735	NA211108MB
08-Nov-21	13:15:29	Pre modification peak	Sample:5_211102A24, Compound:HxCB-F4, RT:20.744	
08-Nov-21	13:15:29	Peak modified	Sample:5_211102A24, Compound:HxCB-F4, RT:20.744	NA211108MB
08-Nov-21	13:16:11	Pre modification peak	Sample:5_211102A21, Compound:HxCB-F4, RT:22.178	
08-Nov-21	13:16:11	Peak modified	Sample:5_211102A21, Compound:HxCB-F4, RT:22.178	NA211108MB
08-Nov-21	13:16:11	Pre modification peak	Sample:5_211102A21, Compound:HxCB-F4, RT:22.252	
08-Nov-21	13:16:11	Peak modified	Sample:5_211102A21, Compound:HxCB-F4, RT:22.252	NA211108MB
08-Nov-21	13:16:11	Pre modification peak	Sample:5_211102A21, Compound:HxCB-F4, RT:22.197	
08-Nov-21	13:16:11	Peak modified	Sample:5_211102A21, Compound:HxCB-F4, RT:22.197	NA211108MB
08-Nov-21	13:16:11	Pre modification peak	Sample:5_211102A21, Compound:HxCB-F4, RT:22.271	
08-Nov-21	13:16:11	Peak modified	Sample:5_211102A21, Compound:HxCB-F4, RT:22.271	NA211108MB
08-Nov-21	13:16:28	Pre modification peak	Sample:5_211102A23, Compound:HxCB-F4, RT:22.169	
08-Nov-21	13:16:28	Peak modified	Sample:5_211102A23, Compound:HxCB-F4, RT:22.169	NA211108MS
08-Nov-21	13:16:28	Peak added	Sample:5_211102A23, Compound:HxCB-F4, RT:22.261	NA211108MS
08-Nov-21	13:16:45	Pre modification peak	Sample:5_211102A24, Compound:HxCB-F4, RT:22.187	
08-Nov-21	13:16:45	Peak modified	Sample:5_211102A24, Compound:HxCB-F4, RT:22.187	NA211108MS
08-Nov-21	13:16:45	Peak added	Sample:5_211102A24, Compound:HxCB-F4, RT:22.252	NA211108MS
08-Nov-21	13:17:21	Pre modification peak	Sample:5_211102A21, Compound:HxCB-F5, RT:22.674	
08-Nov-21	13:17:21	Peak modified	Sample:5_211102A21, Compound:HxCB-F5, RT:22.674	NA211108MB

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08-Nov-21	13:17:21	Pre modification peak	Sample:5_211102A21, Compound:HxCB-F5, RT:22.674	
08-Nov-21	13:17:21	Peak modified	Sample:5_211102A21, Compound:HxCB-F5, RT:22.674	NA211108MB
08-Nov-21	13:17:40	Pre modification peak	Sample:5_211102A22, Compound:HxCB-F5, RT:22.674	
08-Nov-21	13:17:40	Peak modified	Sample:5_211102A22, Compound:HxCB-F5, RT:22.674	NA211108MB
08-Nov-21	13:17:58	Peak added	Sample:5_211102A23, Compound:HxCB-F5, RT:22.662	NA211108MA
08-Nov-21	13:17:58	Peak added	Sample:5_211102A23, Compound:HxCB-F5, RT:22.662	NA211108MA
08-Nov-21	13:18:22	Pre modification peak	Sample:5_211102A24, Compound:HxCB-F5, RT:22.674	
08-Nov-21	13:18:22	Peak modified	Sample:5_211102A24, Compound:HxCB-F5, RT:22.674	NA211108MB
08-Nov-21	13:18:22	Pre modification peak	Sample:5_211102A24, Compound:HxCB-F5, RT:22.674	
08-Nov-21	13:18:22	Peak modified	Sample:5_211102A24, Compound:HxCB-F5, RT:22.674	NA211108MB
08-Nov-21	13:18:49	Pre modification peak	Sample:5_211102A24, Compound:HxCB-F5, RT:22.988	
08-Nov-21	13:18:49	Peak modified	Sample:5_211102A24, Compound:HxCB-F5, RT:22.988	NA211108MB
08-Nov-21	13:18:49	Pre modification peak	Sample:5_211102A24, Compound:HxCB-F5, RT:23.121	
08-Nov-21	13:18:49	Peak modified	Sample:5_211102A24, Compound:HxCB-F5, RT:23.121	NA211108MB
08-Nov-21	13:18:49	Pre modification peak	Sample:5_211102A24, Compound:HxCB-F5, RT:23.109	
08-Nov-21	13:18:49	Peak modified	Sample:5_211102A24, Compound:HxCB-F5, RT:23.109	NA211108MB
08-Nov-21	13:19:18	Pre modification peak	Sample:5_211102A21, Compound:HxCB-F5, RT:24.341	
08-Nov-21	13:19:18	Peak modified	Sample:5_211102A21, Compound:HxCB-F5, RT:24.341	NA211108MB
08-Nov-21	13:19:32	Pre modification peak	Sample:5_211102A22, Compound:HxCB-F5, RT:24.208	
08-Nov-21	13:19:32	Peak modified	Sample:5_211102A22, Compound:HxCB-F5, RT:24.208	NA211108MB
08-Nov-21	13:20:03	Pre modification peak	Sample:5_211102A17, Compound:HxCB-F5, RT:24.752	
08-Nov-21	13:20:03	Peak modified	Sample:5_211102A17, Compound:HxCB-F5, RT:24.752	NA211108MJ
08-Nov-21	13:20:03	Pre modification peak	Sample:5_211102A17, Compound:HxCB-F5, RT:22.638	
08-Nov-21	13:20:03	Peak modified	Sample:5_211102A17, Compound:HxCB-F5, RT:22.638	NA211108MJ
08-Nov-21	13:20:03	Pre modification peak	Sample:5_211102A17, Compound:HxCB-F5, RT:24.752	
08-Nov-21	13:20:03	Peak modified	Sample:5_211102A17, Compound:HxCB-F5, RT:24.752	NA211108MJ
08-Nov-21	13:20:03	Pre modification peak	Sample:5_211102A17, Compound:HxCB-F5, RT:22.638	
08-Nov-21	13:20:03	Peak modified	Sample:5_211102A17, Compound:HxCB-F5, RT:22.638	NA211108MJ
08-Nov-21	13:20:22	Pre modification peak	Sample:5_211102A17, Compound:HxCB-F5, RT:24.909	
08-Nov-21	13:20:22	Peak modified	Sample:5_211102A17, Compound:HxCB-F5, RT:24.909	NA211108MS
08-Nov-21	13:20:22	Pre modification peak	Sample:5_211102A17, Compound:HxCB-F5, RT:25.006	
08-Nov-21	13:20:22	Peak modified	Sample:5_211102A17, Compound:HxCB-F5, RT:25.006	NA211108MS
08-Nov-21	13:20:48	Pre modification peak	Sample:5_211102A21, Compound:HxCB-F5, RT:24.728	
08-Nov-21	13:20:48	Peak modified	Sample:5_211102A21, Compound:HxCB-F5, RT:24.728	NA211108MJ
08-Nov-21	13:20:48	Pre modification peak	Sample:5_211102A21, Compound:HxCB-F5, RT:24.740	
08-Nov-21	13:20:48	Peak modified	Sample:5_211102A21, Compound:HxCB-F5, RT:24.740	NA211108MJ
08-Nov-21	13:20:48	Pre modification peak	Sample:5_211102A21, Compound:HxCB-F5, RT:22.638	
08-Nov-21	13:20:48	Peak modified	Sample:5_211102A21, Compound:HxCB-F5, RT:22.638	NA211108MJ
08-Nov-21	13:21:12	Pre modification peak	Sample:5_211102A23, Compound:HxCB-F5, RT:24.716	
08-Nov-21	13:21:12	Peak modified	Sample:5_211102A23, Compound:HxCB-F5, RT:24.716	NA211108MJ
08-Nov-21	13:21:12	Pre modification peak	Sample:5_211102A23, Compound:HxCB-F5, RT:22.638	
08-Nov-21	13:21:12	Peak modified	Sample:5_211102A23, Compound:HxCB-F5, RT:22.638	NA211108MJ
08-Nov-21	13:21:12	Pre modification peak	Sample:5_211102A23, Compound:HxCB-F5, RT:24.716	
08-Nov-21	13:21:12	Peak modified	Sample:5_211102A23, Compound:HxCB-F5, RT:24.716	NA211108MJ
08-Nov-21	13:21:12	Pre modification peak	Sample:5_211102A23, Compound:HxCB-F5, RT:22.638	
08-Nov-21	13:21:12	Peak modified	Sample:5_211102A23, Compound:HxCB-F5, RT:22.638	NA211108MJ
08-Nov-21	13:21:35	Pre modification peak	Sample:5_211102A24, Compound:HxCB-F5, RT:22.638	
08-Nov-21	13:21:35	Peak modified	Sample:5_211102A24, Compound:HxCB-F5, RT:22.638	NA211108MJ
08-Nov-21	13:21:35	Pre modification peak	Sample:5_211102A24, Compound:HxCB-F5, RT:24.728	
08-Nov-21	13:21:35	Peak modified	Sample:5_211102A24, Compound:HxCB-F5, RT:24.728	NA211108MJ
08-Nov-21	13:21:35	Pre modification peak	Sample:5_211102A24, Compound:HxCB-F5, RT:22.638	
08-Nov-21	13:21:35	Peak modified	Sample:5_211102A24, Compound:HxCB-F5, RT:22.638	NA211108MJ
08-Nov-21	13:21:35	Pre modification peak	Sample:5_211102A24, Compound:HxCB-F5, RT:24.668	

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08-Nov-21	13:21:35	Peak modified	Sample:5_211102A24, Compound:HxCB-F5, RT:24.668	NA211108MJ
08-Nov-21	13:21:57	Pre modification peak	Sample:5_211102A24, Compound:HxCB-F5, RT:24.559	
08-Nov-21	13:21:57	Peak modified	Sample:5_211102A24, Compound:HxCB-F5, RT:24.559	NA211108MB
08-Nov-21	13:22:32	Pre modification peak	Sample:5_211102A21, Compound:HxCB-F5, RT:25.586	
08-Nov-21	13:22:32	Peak modified	Sample:5_211102A21, Compound:HxCB-F5, RT:25.586	NA211108MB
08-Nov-21	13:22:40	Pre modification peak	Sample:5_211102A21, Compound:HxCB-F5, RT:26.432	
08-Nov-21	13:22:40	Peak modified	Sample:5_211102A21, Compound:HxCB-F5, RT:26.432	NA211108MB
08-Nov-21	13:22:56	Pre modification peak	Sample:5_211102A21, Compound:HxCB-F5, RT:27.036	
08-Nov-21	13:22:56	Peak modified	Sample:5_211102A21, Compound:HxCB-F5, RT:27.036	NA211108MB
08-Nov-21	13:22:56	Pre modification peak	Sample:5_211102A21, Compound:HxCB-F5, RT:22.638	
08-Nov-21	13:22:56	Peak modified	Sample:5_211102A21, Compound:HxCB-F5, RT:22.638	NA211108MB
08-Nov-21	13:22:56	Pre modification peak	Sample:5_211102A21, Compound:HxCB-F5, RT:27.036	
08-Nov-21	13:22:56	Peak modified	Sample:5_211102A21, Compound:HxCB-F5, RT:27.036	NA211108MB
08-Nov-21	13:23:30	Pre modification peak	Sample:5_211102A23, Compound:HxCB-F5, RT:26.408	
08-Nov-21	13:23:30	Peak modified	Sample:5_211102A23, Compound:HxCB-F5, RT:26.408	NA211108MB
08-Nov-21	13:23:42	Pre modification peak	Sample:5_211102A24, Compound:HxCB-F5, RT:26.420	
08-Nov-21	13:23:42	Peak modified	Sample:5_211102A24, Compound:HxCB-F5, RT:26.420	NA211108MB
08-Nov-21	13:23:56	Pre modification peak	Sample:5_211102A24, Compound:HxCB-F5, RT:25.973	
08-Nov-21	13:23:56	Peak modified	Sample:5_211102A24, Compound:HxCB-F5, RT:25.973	
08-Nov-21	13:24:24	Pre modification peak	Sample:5_211102A21, Compound:HxCB-F5, RT:28.704	
08-Nov-21	13:24:24	Peak modified	Sample:5_211102A21, Compound:HxCB-F5, RT:28.704	NA211108MB
08-Nov-21	13:24:35	Pre modification peak	Sample:5_211102A22, Compound:HxCB-F5, RT:22.638	
08-Nov-21	13:24:35	Peak modified	Sample:5_211102A22, Compound:HxCB-F5, RT:22.638	
08-Nov-21	13:24:58	Pre modification peak	Sample:5_211102A21, Compound:HpCB-F5, RT:23.725	
08-Nov-21	13:24:58	Peak modified	Sample:5_211102A21, Compound:HpCB-F5, RT:23.725	NA211108MB
08-Nov-21	13:24:58	Pre modification peak	Sample:5_211102A21, Compound:HpCB-F5, RT:23.810	
08-Nov-21	13:24:58	Peak modified	Sample:5_211102A21, Compound:HpCB-F5, RT:23.810	NA211108MB
08-Nov-21	13:25:18	Pre modification peak	Sample:5_211102A23, Compound:HpCB-F5, RT:23.725	
08-Nov-21	13:25:18	Peak modified	Sample:5_211102A23, Compound:HpCB-F5, RT:23.725	NA211108MB
08-Nov-21	13:25:18	Pre modification peak	Sample:5_211102A23, Compound:HpCB-F5, RT:23.725	
08-Nov-21	13:25:18	Peak modified	Sample:5_211102A23, Compound:HpCB-F5, RT:23.725	NA211108MB
08-Nov-21	13:25:34	Pre modification peak	Sample:5_211102A24, Compound:HpCB-F5, RT:24.184	
08-Nov-21	13:25:34	Peak modified	Sample:5_211102A24, Compound:HpCB-F5, RT:24.184	NA211108MB
08-Nov-21	13:26:32	Pre modification peak	Sample:5_211102A21, Compound:HpCB-F5, RT:25.864	
08-Nov-21	13:26:32	Peak modified	Sample:5_211102A21, Compound:HpCB-F5, RT:25.864	NA211108MA
08-Nov-21	13:26:32	Pre modification peak	Sample:5_211102A21, Compound:HpCB-F5, RT:26.021	
08-Nov-21	13:26:32	Peak modified	Sample:5_211102A21, Compound:HpCB-F5, RT:26.021	NA211108MA
08-Nov-21	13:26:32	Peak added	Sample:5_211102A21, Compound:HpCB-F5, RT:25.973	NA211108MA
08-Nov-21	13:26:44	Pre modification peak	Sample:5_211102A23, Compound:HpCB-F5, RT:25.937	
08-Nov-21	13:26:44	Peak modified	Sample:5_211102A23, Compound:HpCB-F5, RT:25.937	NA211108MS
08-Nov-21	13:26:44	Pre modification peak	Sample:5_211102A23, Compound:HpCB-F5, RT:26.009	
08-Nov-21	13:26:44	Peak modified	Sample:5_211102A23, Compound:HpCB-F5, RT:26.009	NA211108MS
08-Nov-21	13:26:54	Pre modification peak	Sample:5_211102A23, Compound:HpCB-F5, RT:26.021	
08-Nov-21	13:26:54	Peak modified	Sample:5_211102A23, Compound:HpCB-F5, RT:26.021	NA211108MB
08-Nov-21	13:27:09	Pre modification peak	Sample:5_211102A24, Compound:HpCB-F5, RT:26.021	
08-Nov-21	13:27:09	Peak modified	Sample:5_211102A24, Compound:HpCB-F5, RT:26.021	NA211108MS
08-Nov-21	13:27:09	Peak added	Sample:5_211102A24, Compound:HpCB-F5, RT:25.948	NA211108MS
08-Nov-21	13:27:20	Pre modification peak	Sample:5_211102A24, Compound:HpCB-F5, RT:25.864	
08-Nov-21	13:27:20	Peak modified	Sample:5_211102A24, Compound:HpCB-F5, RT:25.864	NA211108MB
08-Nov-21	13:27:29	Pre modification peak	Sample:5_211102A24, Compound:HpCB-F5, RT:25.948	
08-Nov-21	13:27:29	Peak modified	Sample:5_211102A24, Compound:HpCB-F5, RT:25.948	NA211108MB
08-Nov-21	13:27:43	Peak added	Sample:5_211102A21, Compound:HpCB-F5, RT:26.396	NA211108MA
08-Nov-21	13:29:06	Pre modification peak	Sample:5_211102A23, Compound:HpCB-F5, RT:26.456	

Quantify Audit Report MassLynx V4.2 SCN1012

Dataset: I:\Organics Instrument\HIGHRES GCMS Completed Results Files\HR-5\5-211102A2-1108NA.qld

Last Altered: Monday, November 08, 2021 13:43:10 Eastern Standard Time
Printed: Monday, November 08, 2021 16:03:38 Eastern Standard Time

Date	Time	Event	Details	Comments
08-Nov-21	13:29:06	Peak modified	Sample:5_211102A23, Compound:HpCB-F5, RT:26.456	NA211108MB
08-Nov-21	13:29:20	Pre modification peak	Sample:5_211102A24, Compound:HpCB-F5, RT:26.577	
08-Nov-21	13:29:20	Peak modified	Sample:5_211102A24, Compound:HpCB-F5, RT:26.577	NA211108MB
08-Nov-21	13:29:20	Pre modification peak	Sample:5_211102A24, Compound:HpCB-F5, RT:26.577	
08-Nov-21	13:29:20	Peak modified	Sample:5_211102A24, Compound:HpCB-F5, RT:26.577	NA211108MB
08-Nov-21	13:31:08	Pre modification peak	Sample:5_211102A21, Compound:HpCB-F5, RT:28.667	
08-Nov-21	13:31:08	Peak modified	Sample:5_211102A21, Compound:HpCB-F5, RT:28.667	NA211108MB
08-Nov-21	13:31:41	Pre modification peak	Sample:5_211102A23, Compound:HpCB-F5, RT:27.362	
08-Nov-21	13:31:41	Peak modified	Sample:5_211102A23, Compound:HpCB-F5, RT:27.362	NA211108MB
08-Nov-21	13:31:58	Pre modification peak	Sample:5_211102A24, Compound:HpCB-F5, RT:28.667	
08-Nov-21	13:31:58	Peak modified	Sample:5_211102A24, Compound:HpCB-F5, RT:28.667	NA211108MB
08-Nov-21	13:31:58	Pre modification peak	Sample:5_211102A24, Compound:HpCB-F5, RT:28.667	
08-Nov-21	13:31:58	Peak modified	Sample:5_211102A24, Compound:HpCB-F5, RT:28.667	NA211108MB
08-Nov-21	13:32:48	Pre modification peak	Sample:5_211102A23, Compound:HpCB-F6, RT:29.964	
08-Nov-21	13:32:48	Peak modified	Sample:5_211102A23, Compound:HpCB-F6, RT:29.964	NA211108MB
08-Nov-21	13:33:05	Pre modification peak	Sample:5_211102A24, Compound:HpCB-F6, RT:29.992	
08-Nov-21	13:33:05	Peak modified	Sample:5_211102A24, Compound:HpCB-F6, RT:29.992	NA211108MB
08-Nov-21	13:33:05	Pre modification peak	Sample:5_211102A24, Compound:HpCB-F6, RT:29.978	
08-Nov-21	13:33:05	Peak modified	Sample:5_211102A24, Compound:HpCB-F6, RT:29.978	NA211108MB
08-Nov-21	13:33:05	Pre modification peak	Sample:5_211102A24, Compound:HpCB-F6, RT:29.392	
08-Nov-21	13:33:05	Peak modified	Sample:5_211102A24, Compound:HpCB-F6, RT:29.392	NA211108MB
08-Nov-21	13:33:32	Pre modification peak	Sample:5_211102A23, Compound:OcCB-F5, RT:27.145	
08-Nov-21	13:33:32	Peak modified	Sample:5_211102A23, Compound:OcCB-F5, RT:27.145	NA211108MB
08-Nov-21	13:33:32	Pre modification peak	Sample:5_211102A23, Compound:OcCB-F5, RT:27.230	
08-Nov-21	13:33:32	Peak modified	Sample:5_211102A23, Compound:OcCB-F5, RT:27.230	NA211108MB
08-Nov-21	13:33:46	Pre modification peak	Sample:5_211102A23, Compound:OcCB-F5, RT:27.097	
08-Nov-21	13:33:46	Peak modified	Sample:5_211102A23, Compound:OcCB-F5, RT:27.097	NA211108MB
08-Nov-21	13:33:56	Peak added	Sample:5_211102A24, Compound:OcCB-F5, RT:27.084	NA211108MA
08-Nov-21	13:34:12	Peak modified	Sample:5_211102A24, Compound:OcCB-F5, RT:27.084	NA211108MB
08-Nov-21	13:34:12	Pre modification peak	Sample:5_211102A24, Compound:OcCB-F5, RT:27.072	
08-Nov-21	13:34:12	Peak modified	Sample:5_211102A24, Compound:OcCB-F5, RT:27.072	NA211108MB
08-Nov-21	13:34:47	Pre modification peak	Sample:5_211102A21, Compound:OcCB-F5, RT:29.042	
08-Nov-21	13:34:47	Peak modified	Sample:5_211102A21, Compound:OcCB-F5, RT:29.042	NA211108MB
08-Nov-21	13:34:47	Pre modification peak	Sample:5_211102A21, Compound:OcCB-F5, RT:29.030	
08-Nov-21	13:34:47	Peak modified	Sample:5_211102A21, Compound:OcCB-F5, RT:29.030	NA211108MB
08-Nov-21	13:34:47	Pre modification peak	Sample:5_211102A21, Compound:OcCB-F5, RT:29.151	
08-Nov-21	13:34:47	Peak modified	Sample:5_211102A21, Compound:OcCB-F5, RT:29.151	NA211108MB
08-Nov-21	13:35:04	Pre modification peak	Sample:5_211102A24, Compound:OcCB-F5, RT:29.042	
08-Nov-21	13:35:04	Peak modified	Sample:5_211102A24, Compound:OcCB-F5, RT:29.042	NA211108MB
08-Nov-21	13:35:04	Pre modification peak	Sample:5_211102A24, Compound:OcCB-F5, RT:29.139	
08-Nov-21	13:35:04	Peak modified	Sample:5_211102A24, Compound:OcCB-F5, RT:29.139	NA211108MB
08-Nov-21	13:35:16	Peak modified	Sample:5_211102A24, Compound:OcCB-F5, RT:29.042	NA211108MB
08-Nov-21	13:35:16	Peak modified	Sample:5_211102A24, Compound:OcCB-F5, RT:29.139	NA211108MB
08-Nov-21	13:35:43	Peak added	Sample:5_211102A22, Compound:OcCB-F6, RT:31.080	NA211108MB
08-Nov-21	13:36:03	Pre modification peak	Sample:5_211102A23, Compound:OcCB-F6, RT:29.392	
08-Nov-21	13:36:03	Peak modified	Sample:5_211102A23, Compound:OcCB-F6, RT:29.392	
08-Nov-21	13:36:16	Pre modification peak	Sample:5_211102A24, Compound:OcCB-F6, RT:31.373	
08-Nov-21	13:36:16	Peak modified	Sample:5_211102A24, Compound:OcCB-F6, RT:31.373	NA211108MB
08-Nov-21	13:36:32	Peak added	Sample:5_211102A23, Compound:NoCB-F6, RT:30.160	NA211108MA
08-Nov-21	13:36:59	Pre modification peak	Sample:5_211102A24, Compound:NoCB-F6, RT:32.447	
08-Nov-21	13:36:59	Peak modified	Sample:5_211102A24, Compound:NoCB-F6, RT:32.447	NA211108MA
08-Nov-21	13:36:59	Peak added	Sample:5_211102A24, Compound:NoCB-F6, RT:29.699	NA211108MA
08-Nov-21	13:36:59	Peak added	Sample:5_211102A24, Compound:NoCB-F6, RT:30.173	NA211108MA

Quantify Audit Report MassLynx V4.2 SCN1012

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Last Altered: Monday, November 08, 2021 13:43:10 Eastern Standard Time
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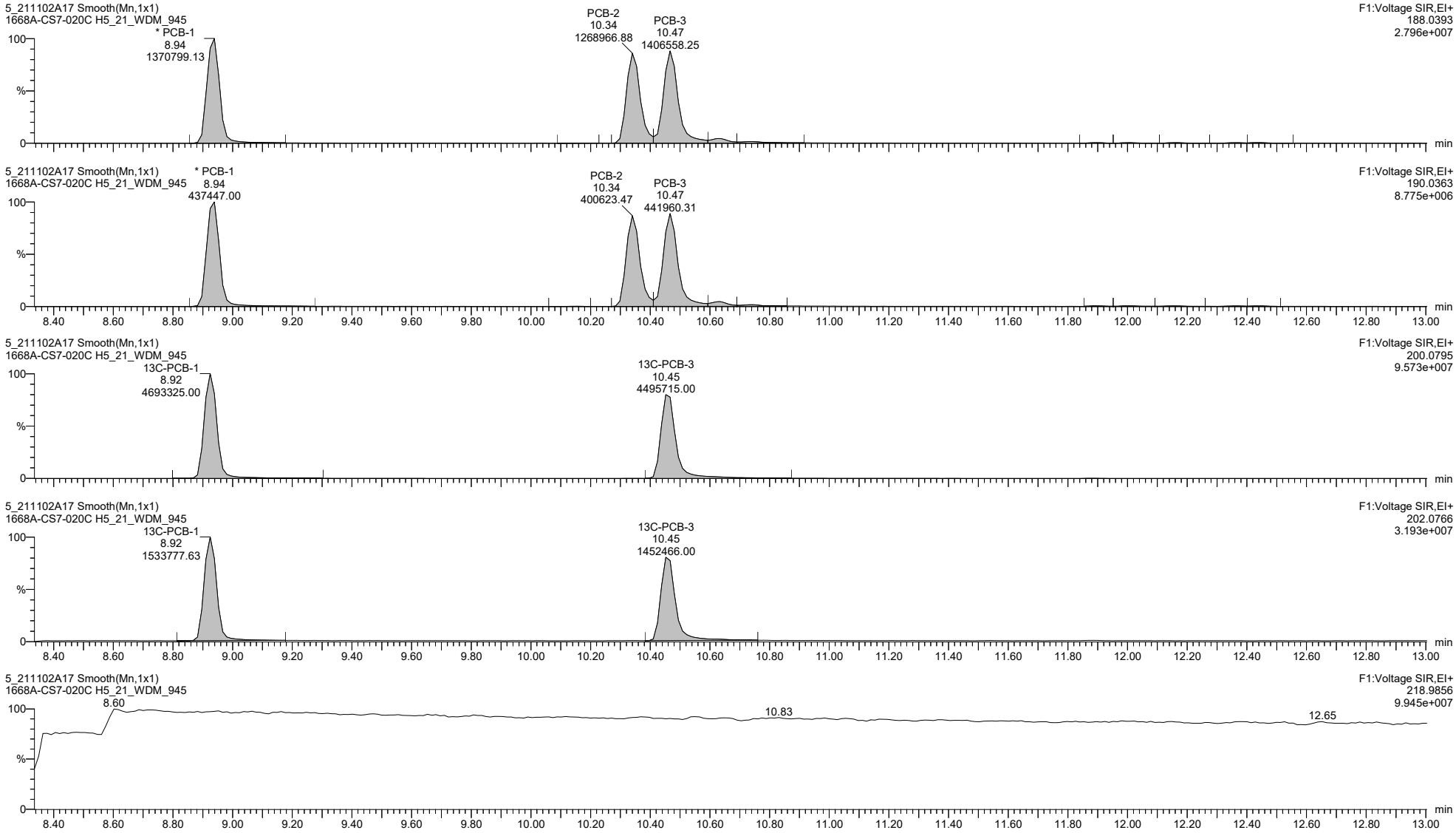
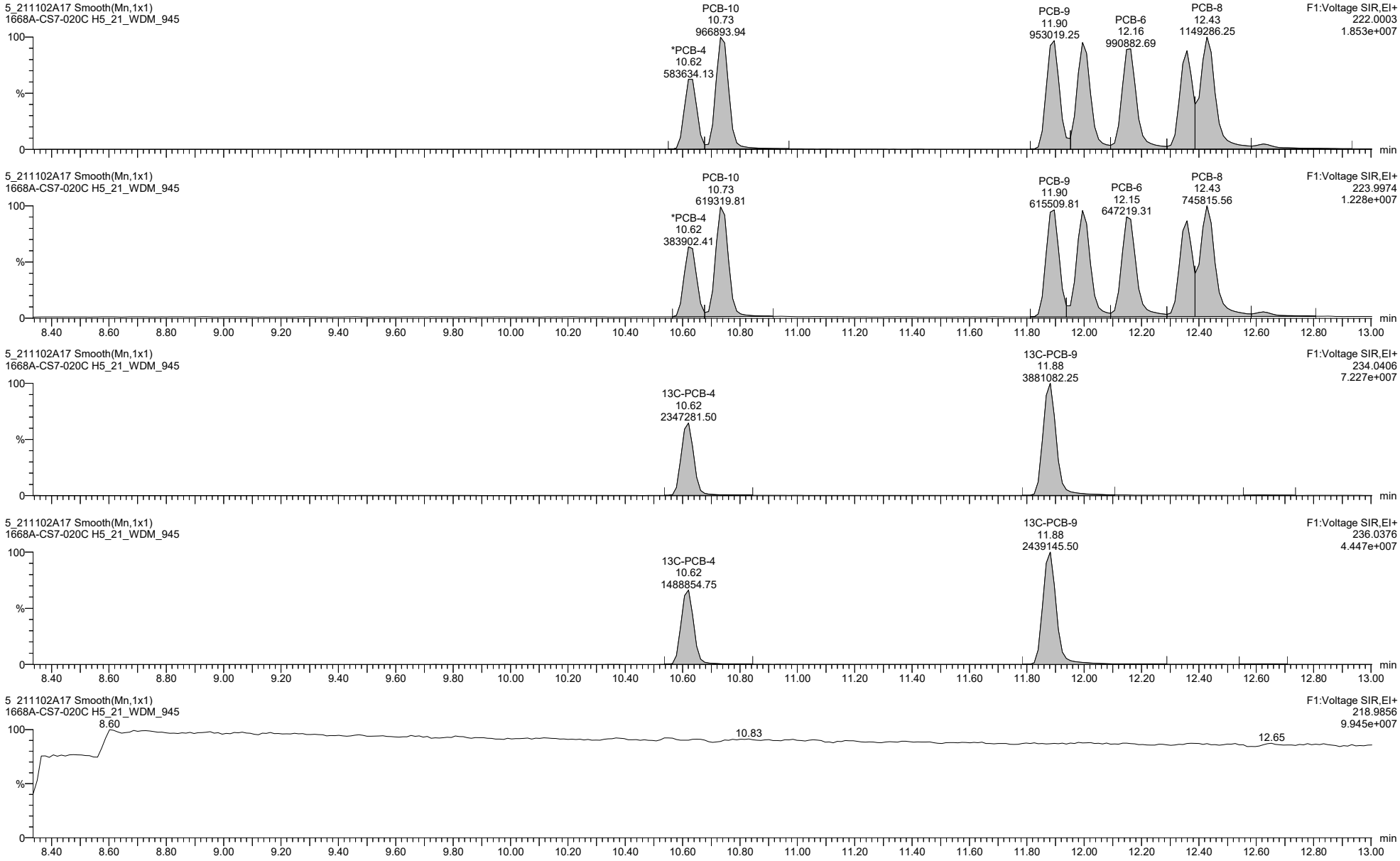
Date	Time	Event	Details	Comments
08-Nov-21	13:36:59	Pre modification peak	Sample:5_211102A24, Compound:NoCB-F6, RT:30.173	
08-Nov-21	13:36:59	Peak modified	Sample:5_211102A24, Compound:NoCB-F6, RT:30.173	NA211108MA
08-Nov-21	13:37:14	Peak added	Sample:5_211102A21, Compound:DeCB-F7, RT:33.559	NA211108MA
08-Nov-21	13:43:01	Pre modification peak	Sample:5_211102A22, Compound:DeCB-F7, RT:33.560	
08-Nov-21	13:43:01	Peak modified	Sample:5_211102A22, Compound:DeCB-F7, RT:33.560	NA211108MA
08-Nov-21	13:43:01	Pre modification peak	Sample:5_211102A22, Compound:DeCB-F7, RT:33.560	
08-Nov-21	13:43:01	Peak modified	Sample:5_211102A22, Compound:DeCB-F7, RT:33.560	NA211108MA
08-Nov-21	13:43:01	Pre modification peak	Sample:5_211102A22, Compound:DeCB-F7, RT:33.195	
08-Nov-21	13:43:01	Peak modified	Sample:5_211102A22, Compound:DeCB-F7, RT:33.195	NA211108MA
08-Nov-21	13:44:44	Dataset Saved	Saved to 'I:\Organics Instrument\HIGHRES GCMS Complete...	

Method: C:\MassLynx\PCB.PRO\MethDB\1668_OCTYL_209-1025.mdb 25 Oct 2021 11:29:00
Calibration: 08 Nov 2021 13:20:26

Name: 5_211102A17, Date: 02-Nov-2021, Time: 21:19:40, ID: H5_21_WDM_945, Description: 1668A-CS7-020C, Vial: Tray1:2



Name: 5_211102A17, Date: 02-Nov-2021, Time: 21:19:40, ID: H5_21_WDM_945, Description: 1668A-CS7-020C, Vial: Tray1:2



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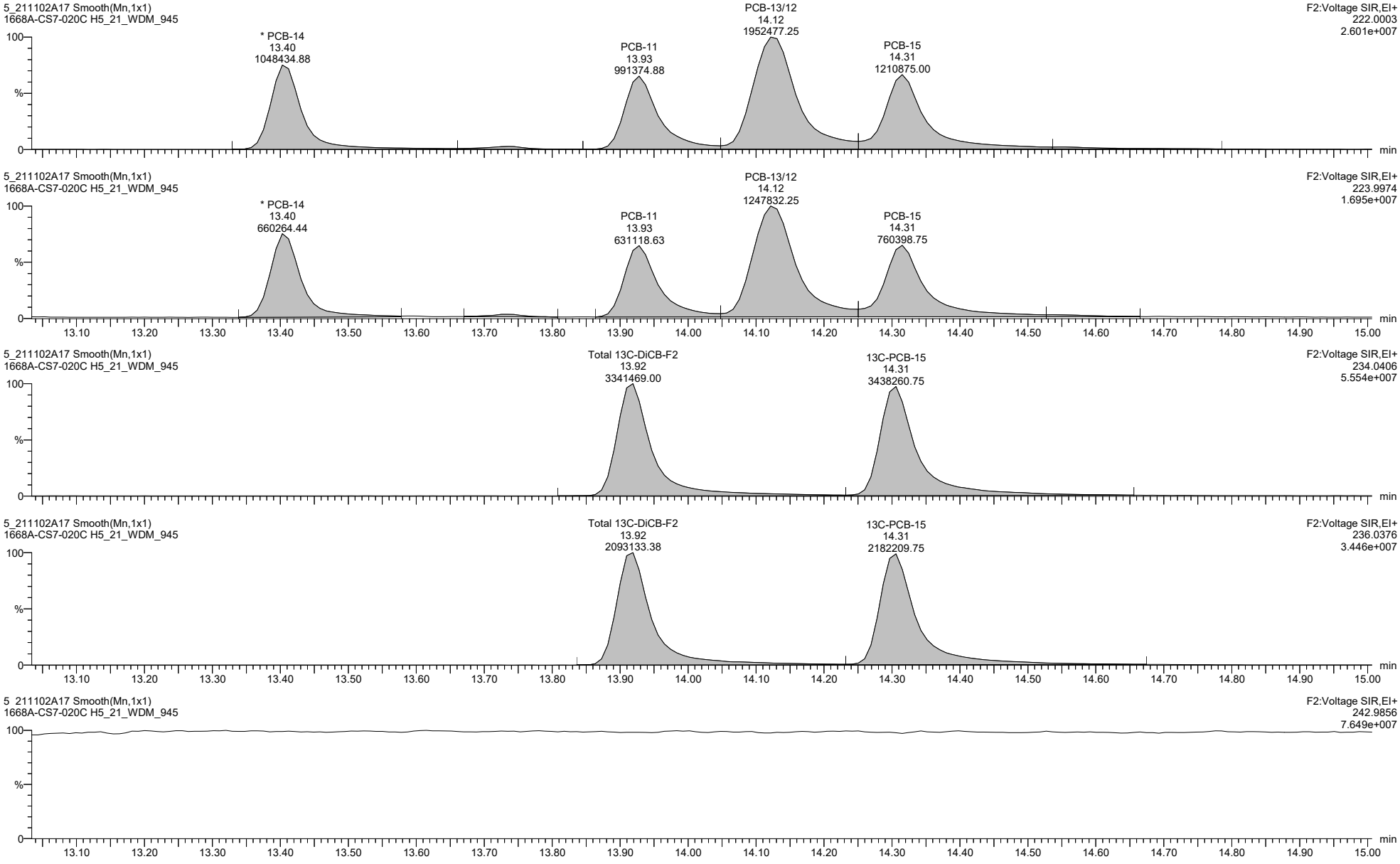

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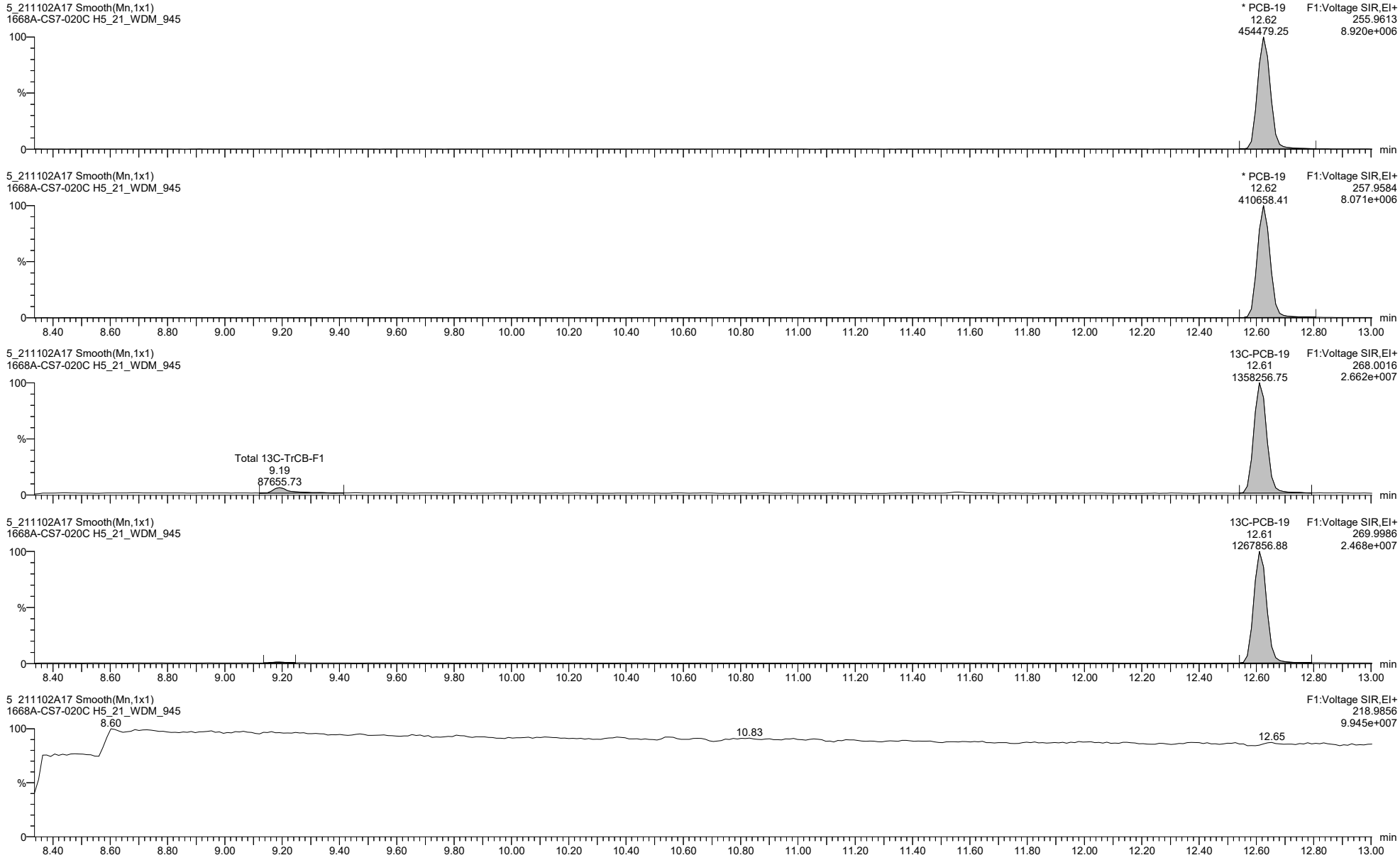

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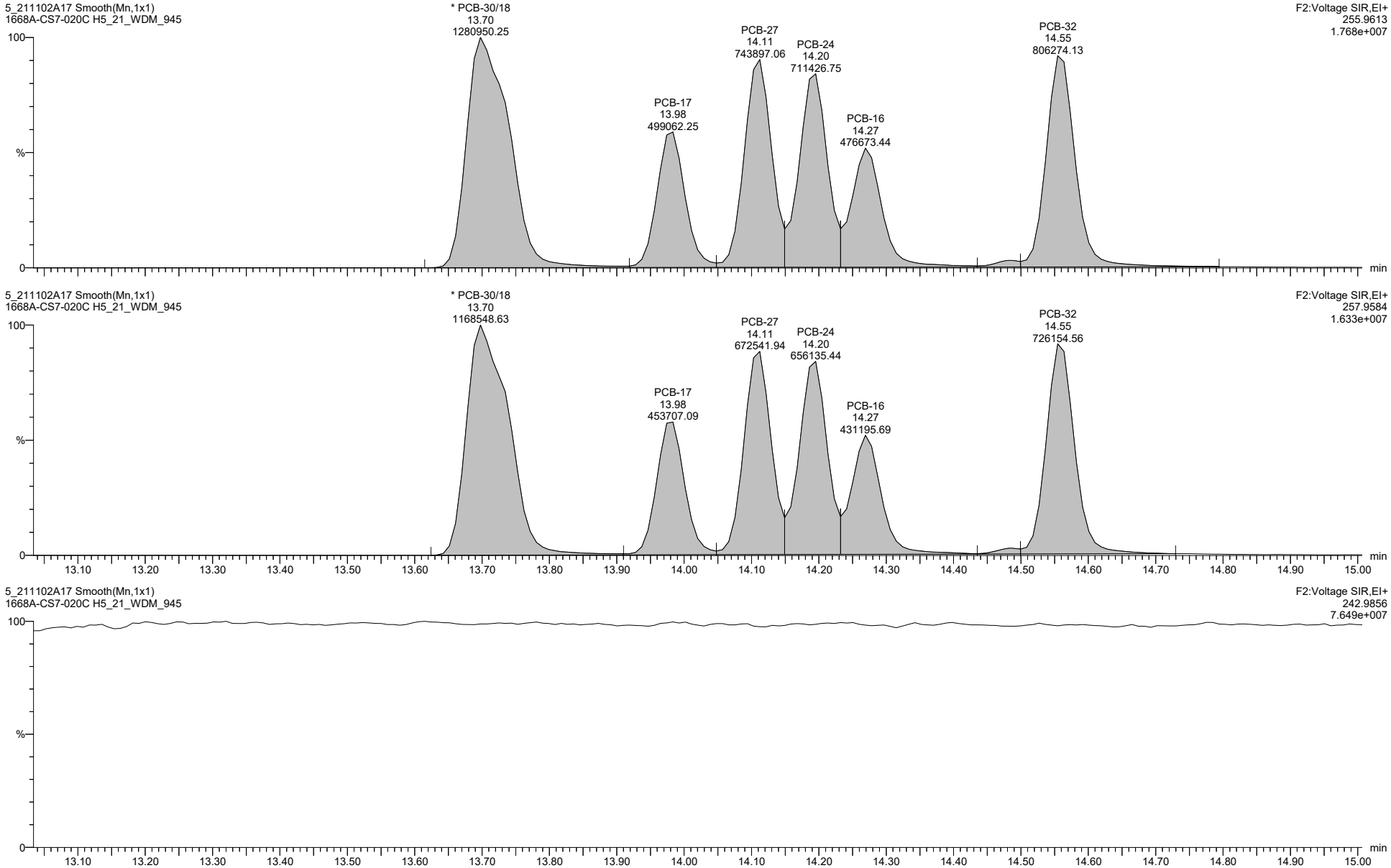

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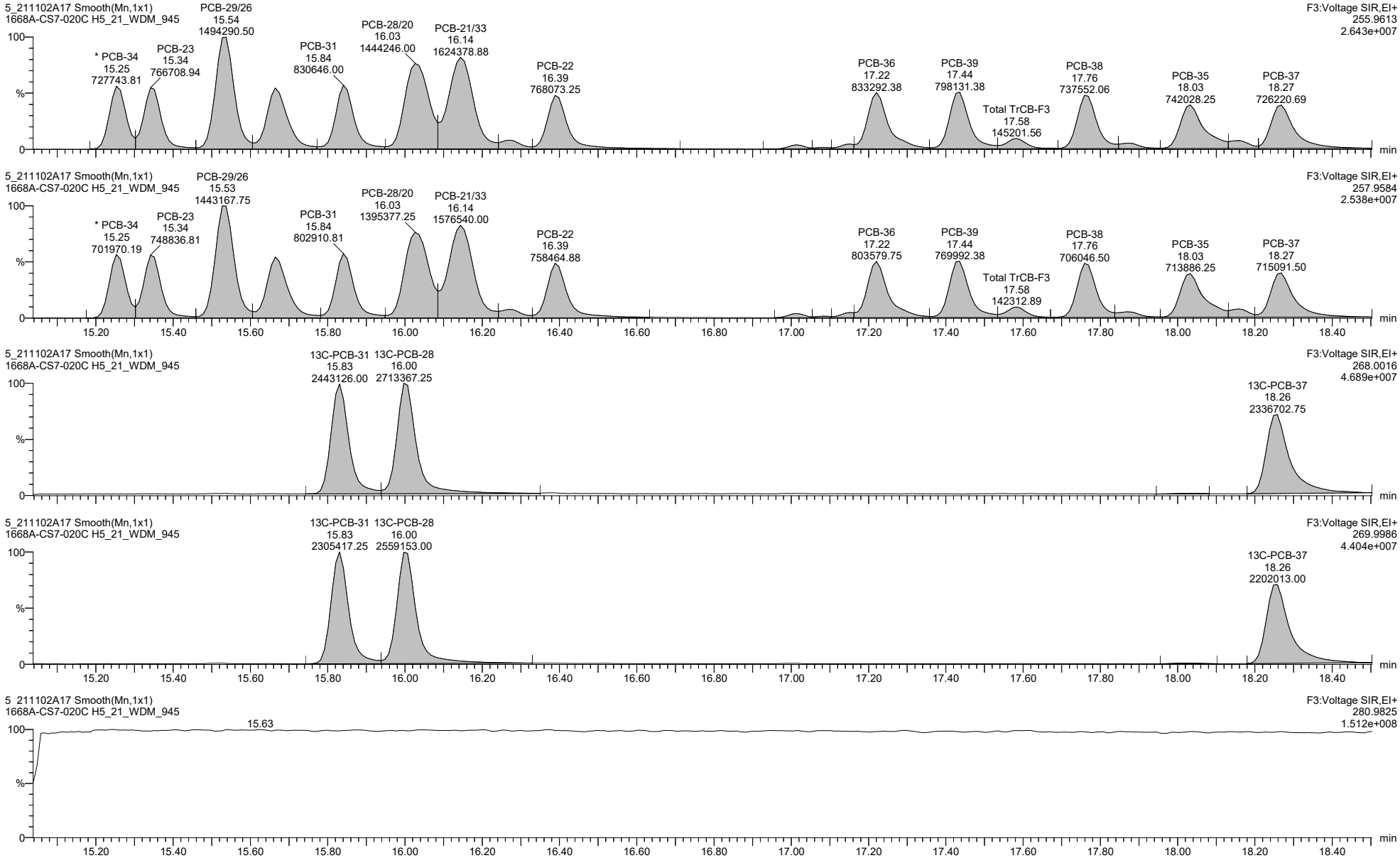

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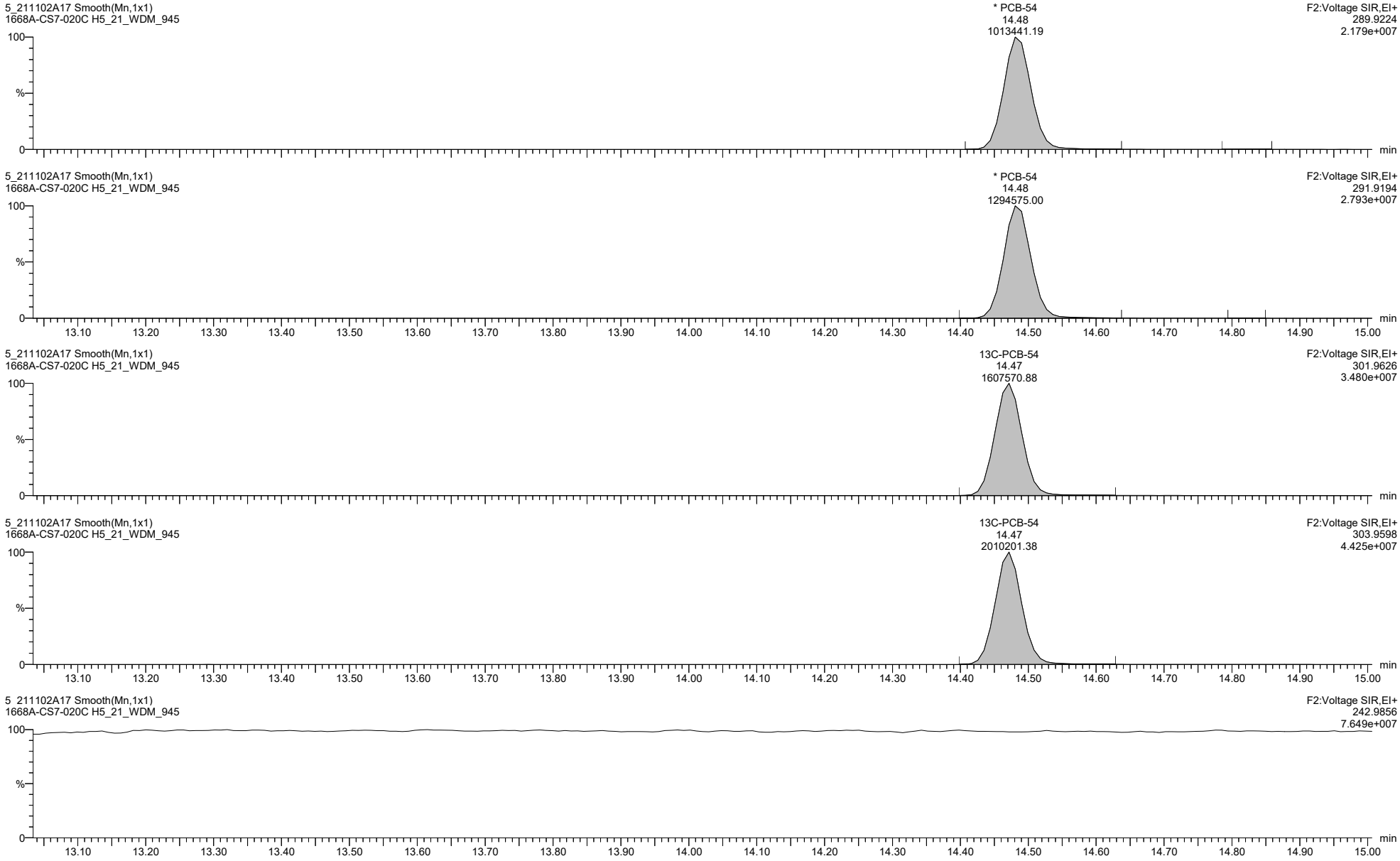

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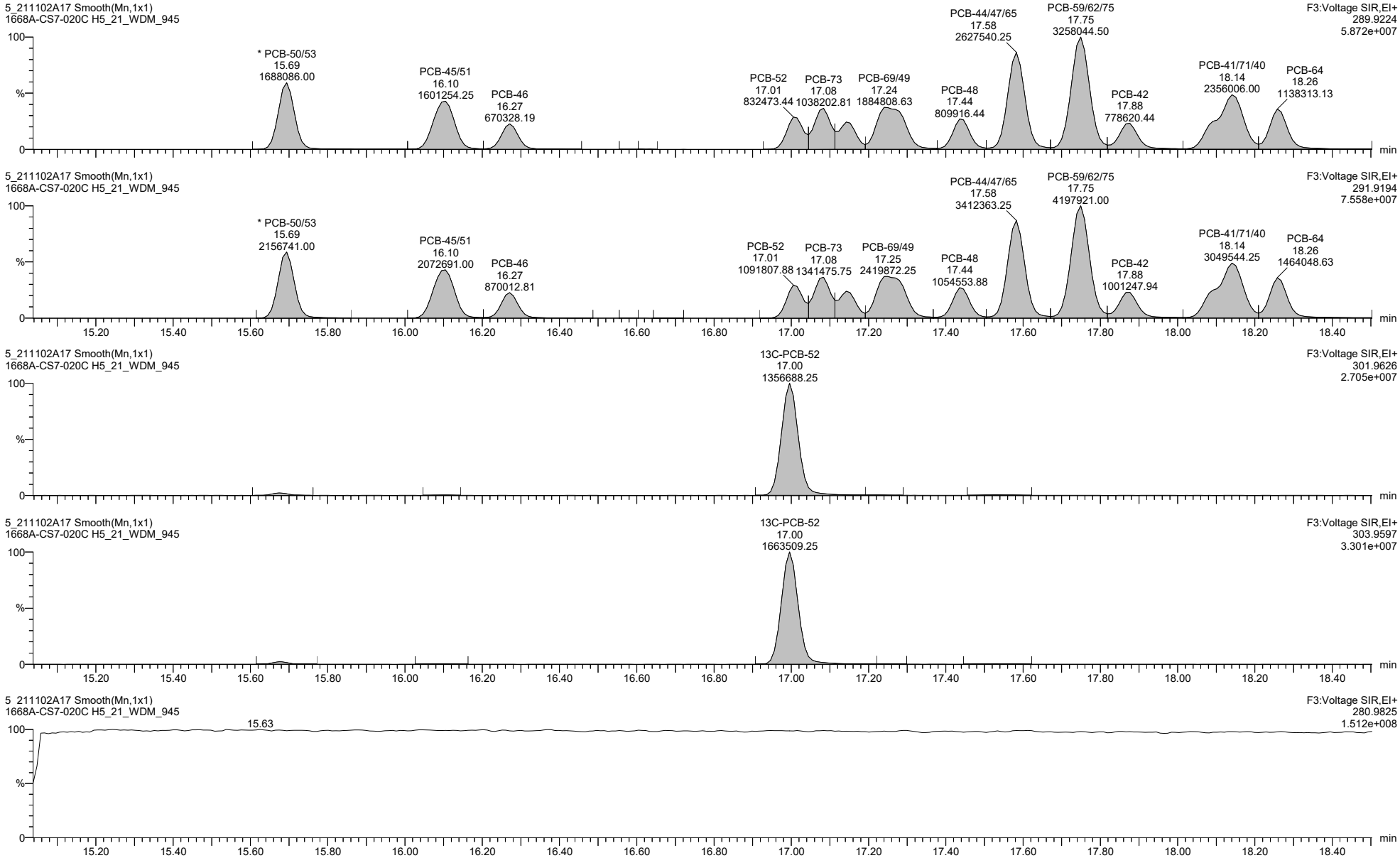

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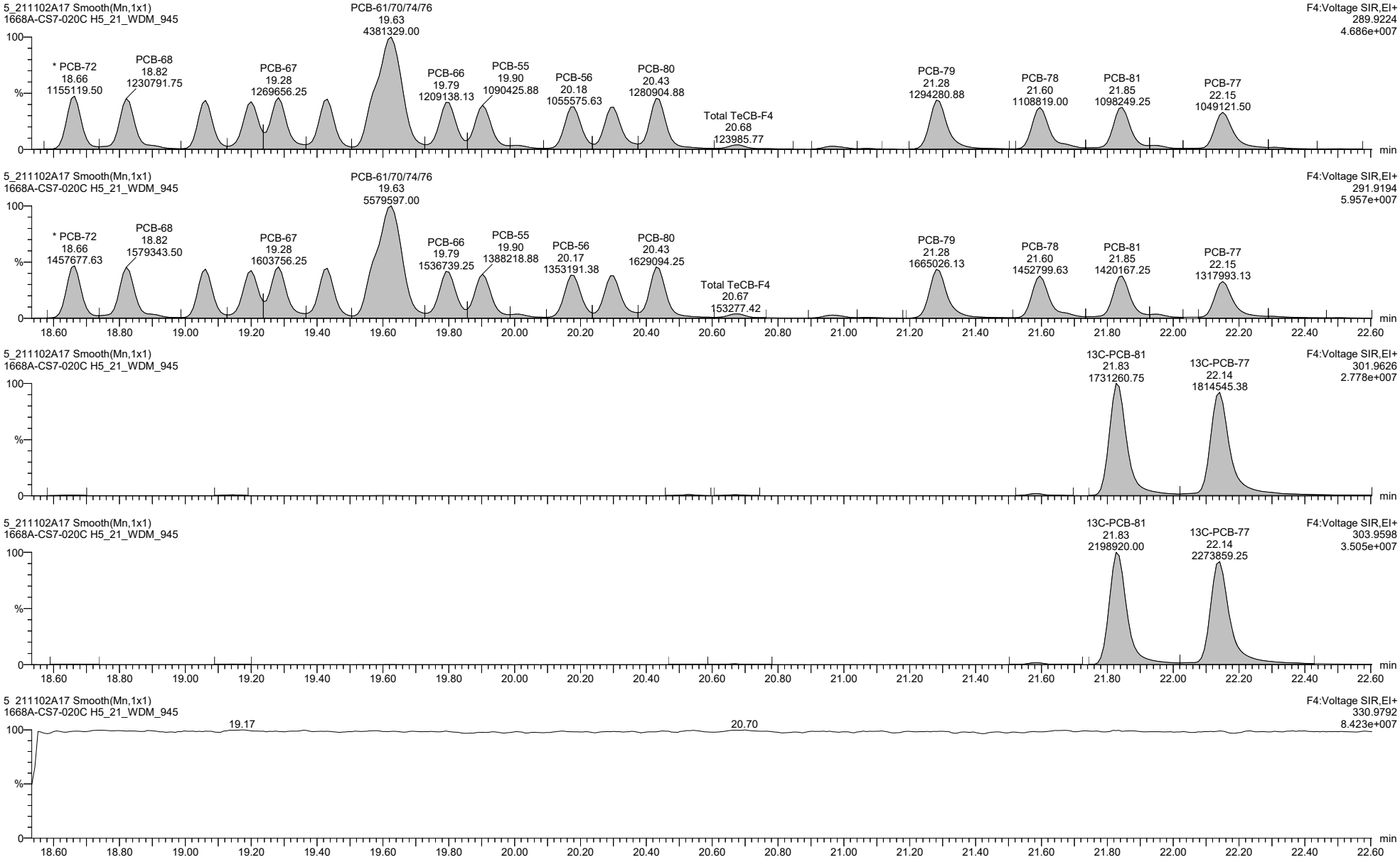

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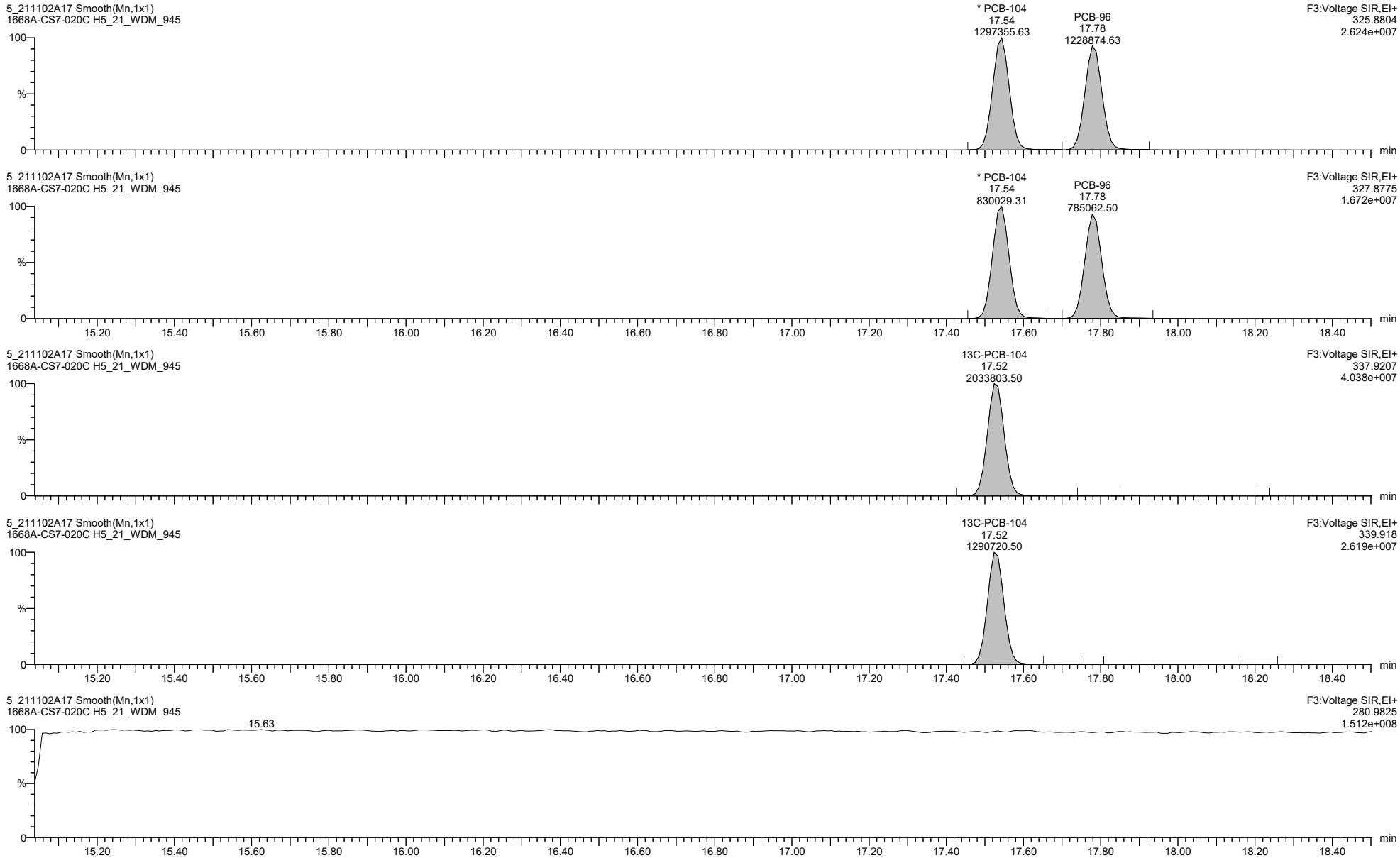

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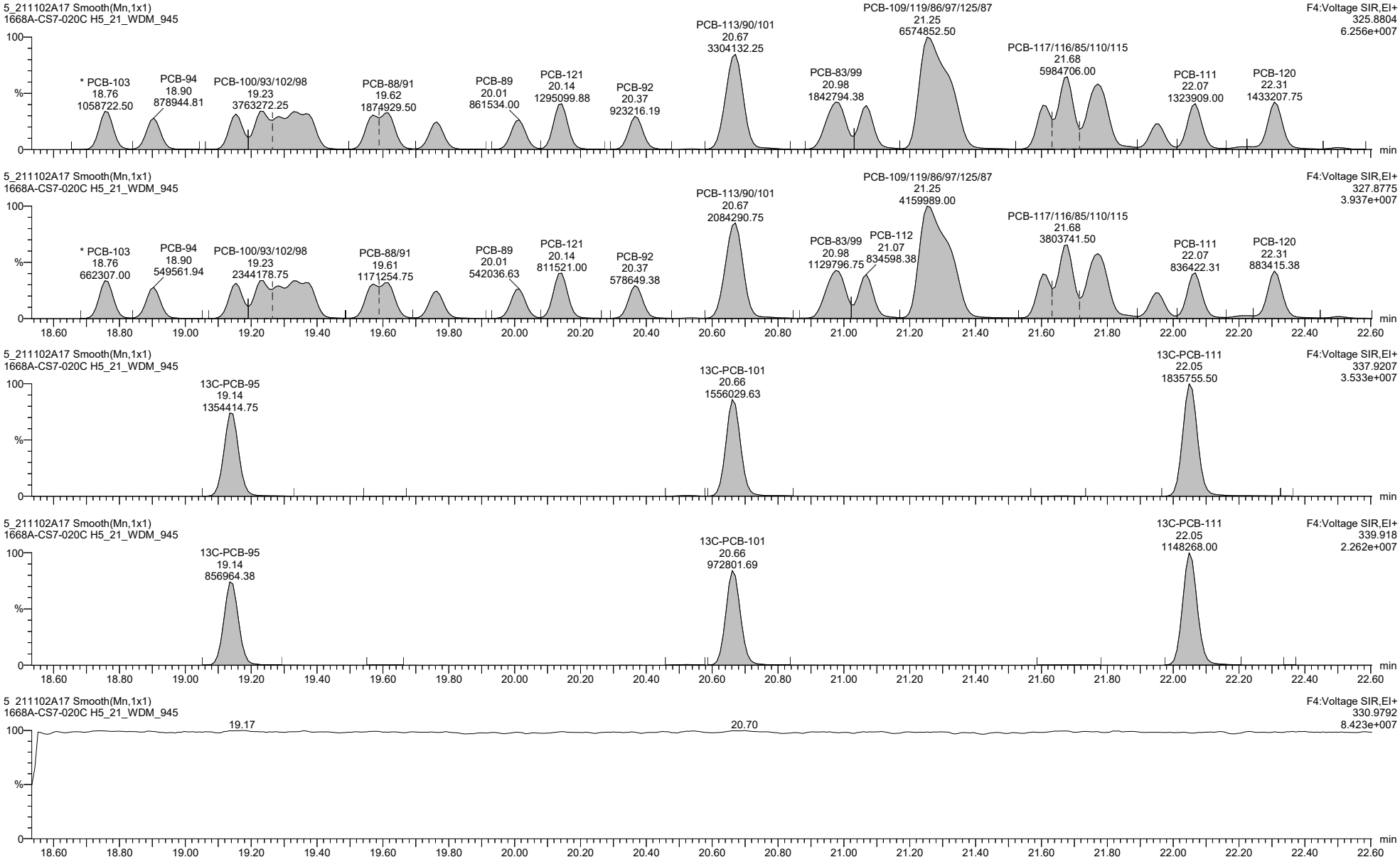

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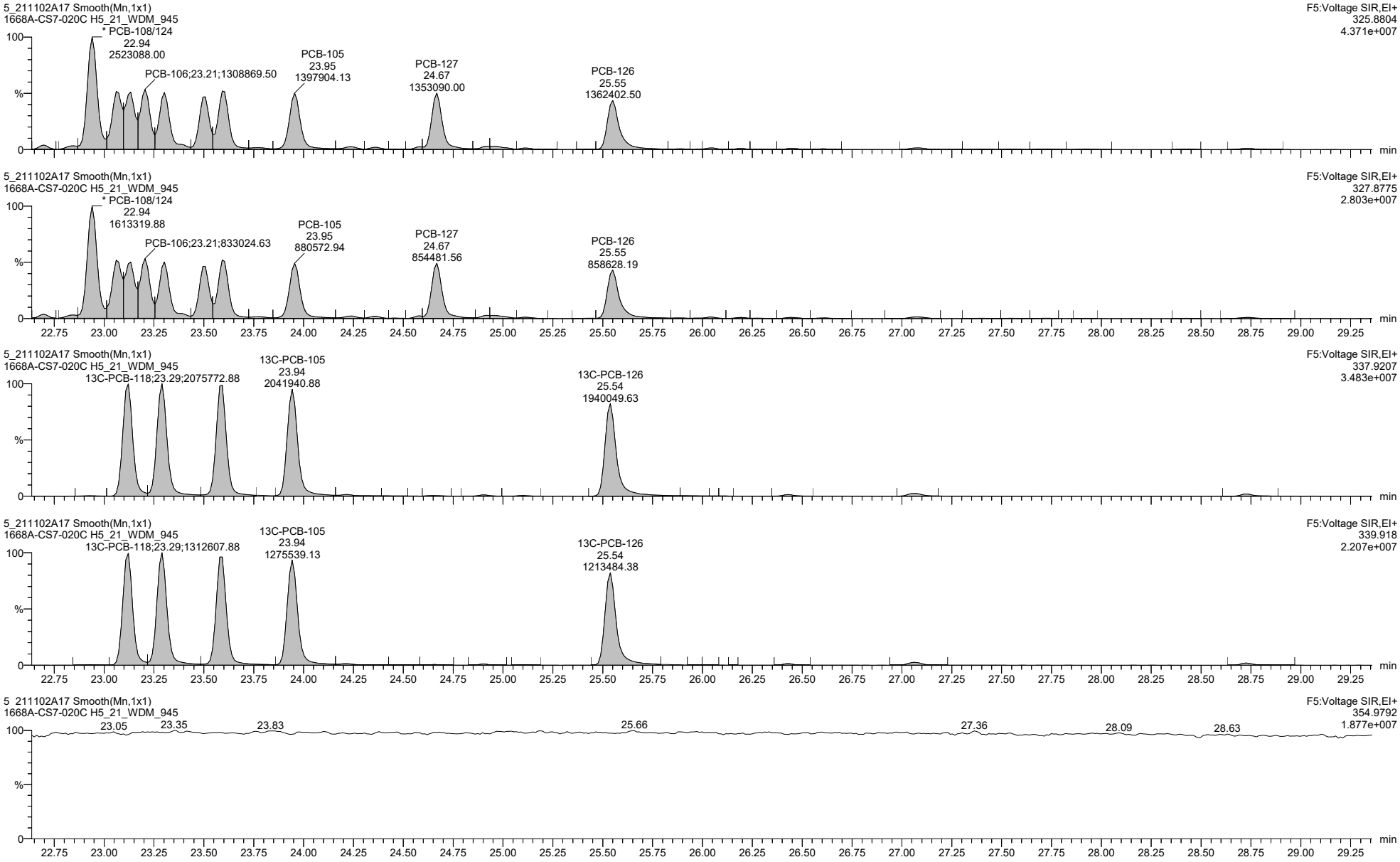

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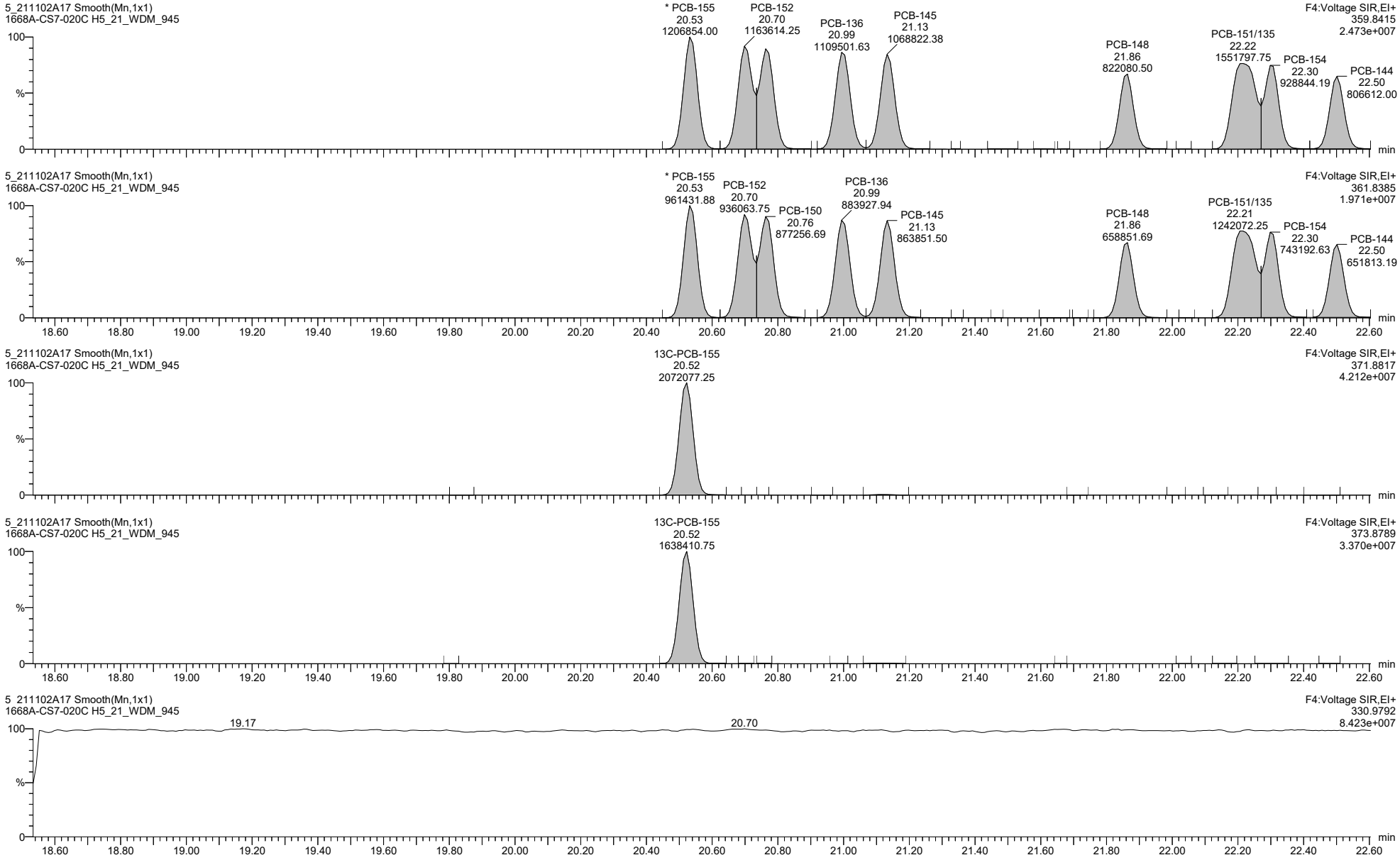

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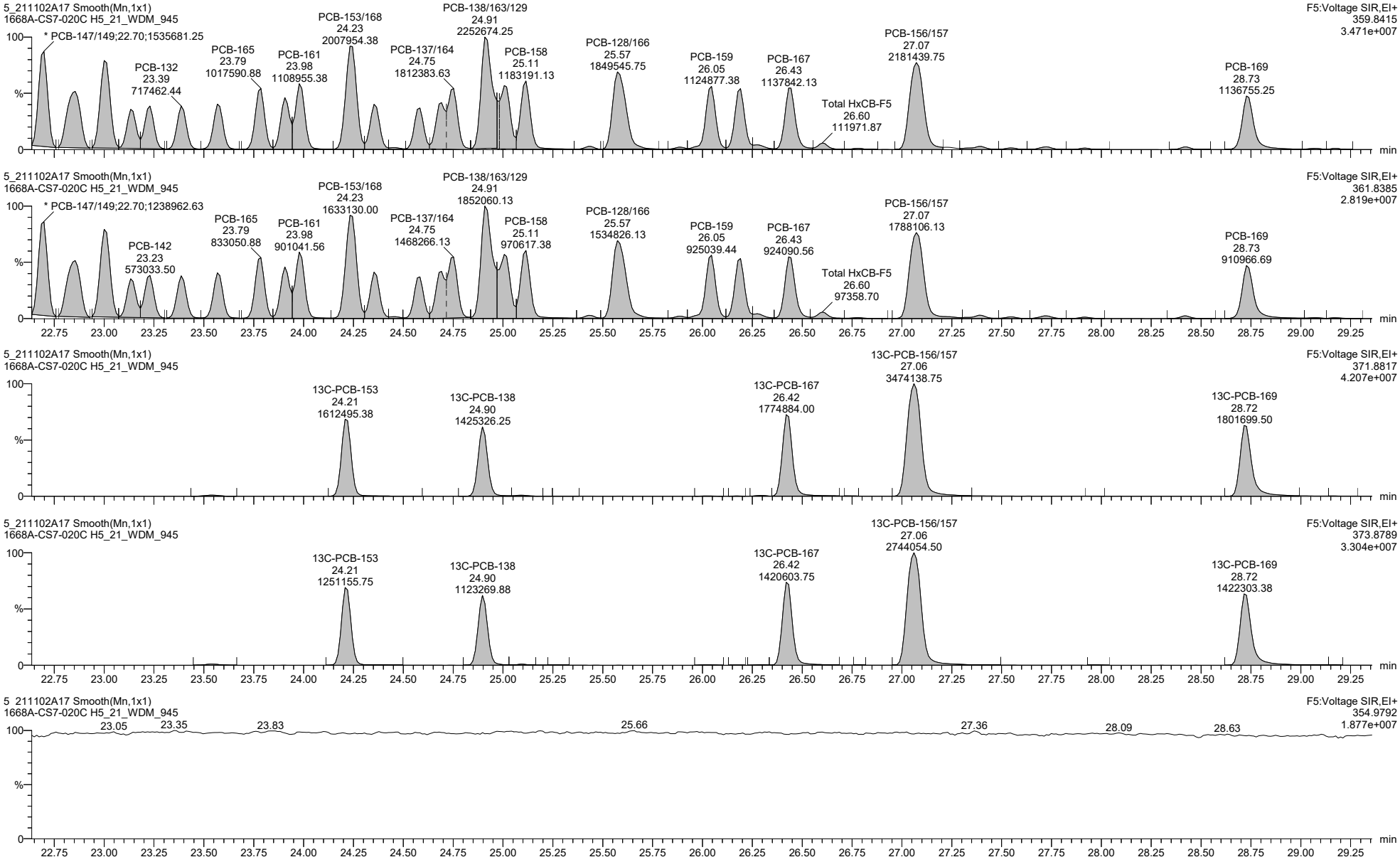

Quantify Sample Template Report **MassLynx V4.2 SCN1012**

Dataset: I:\Organics Instrument\HIGHRES GCMS Completed Results Files\HR-5\5-211102A2-1108NA.qld

Last Altered: Monday, November 08, 2021 13:43:10 Eastern Standard Time
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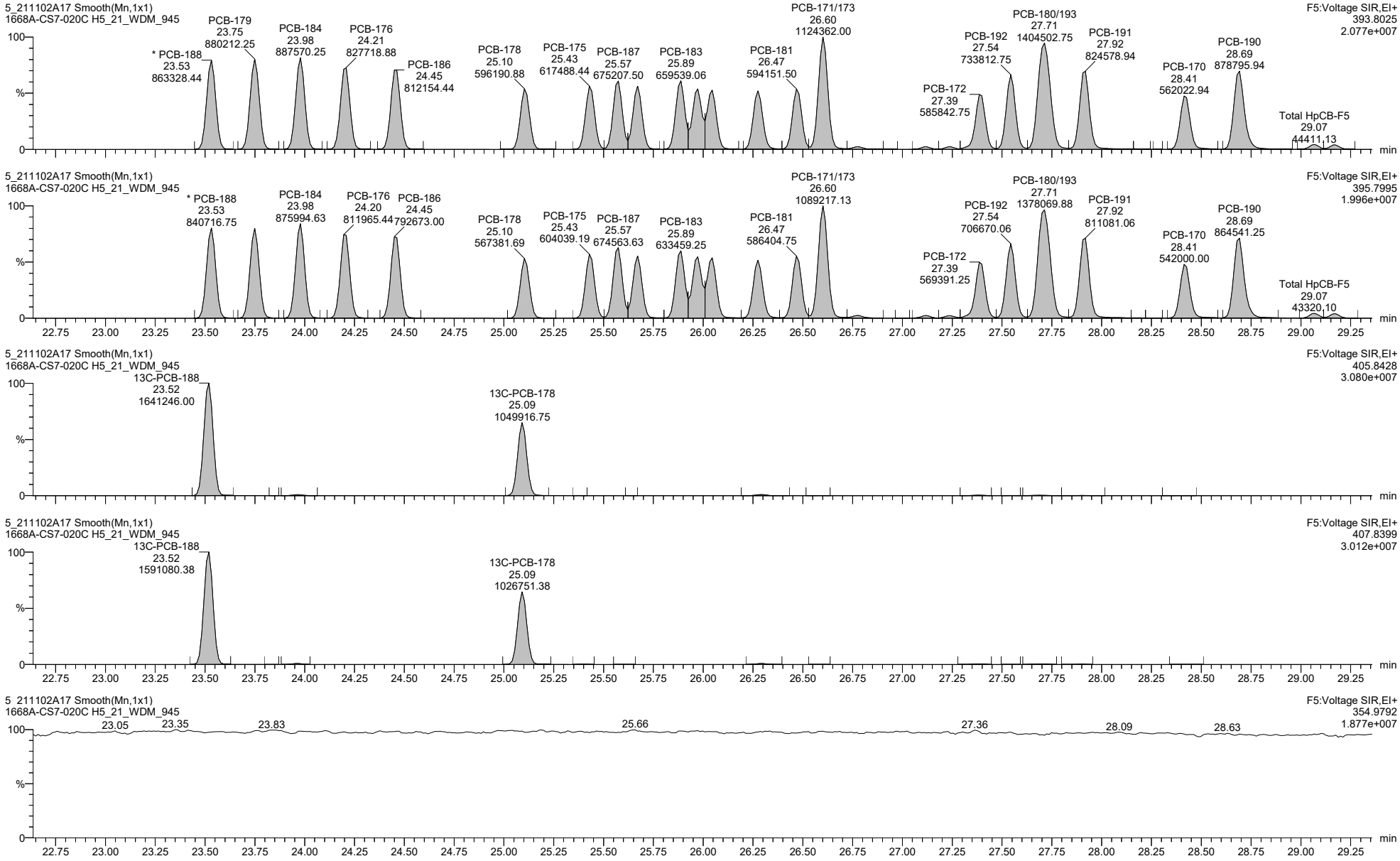

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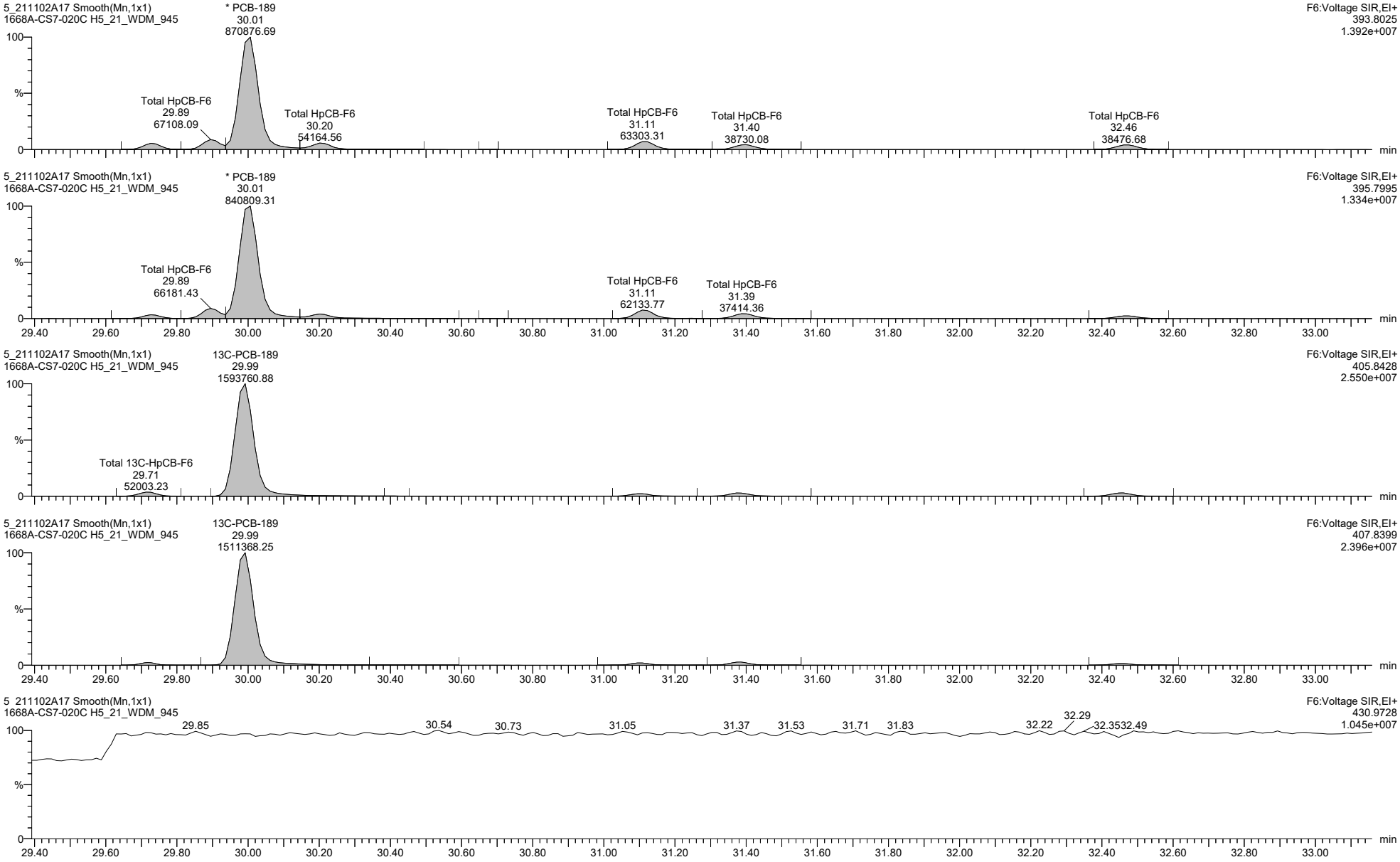

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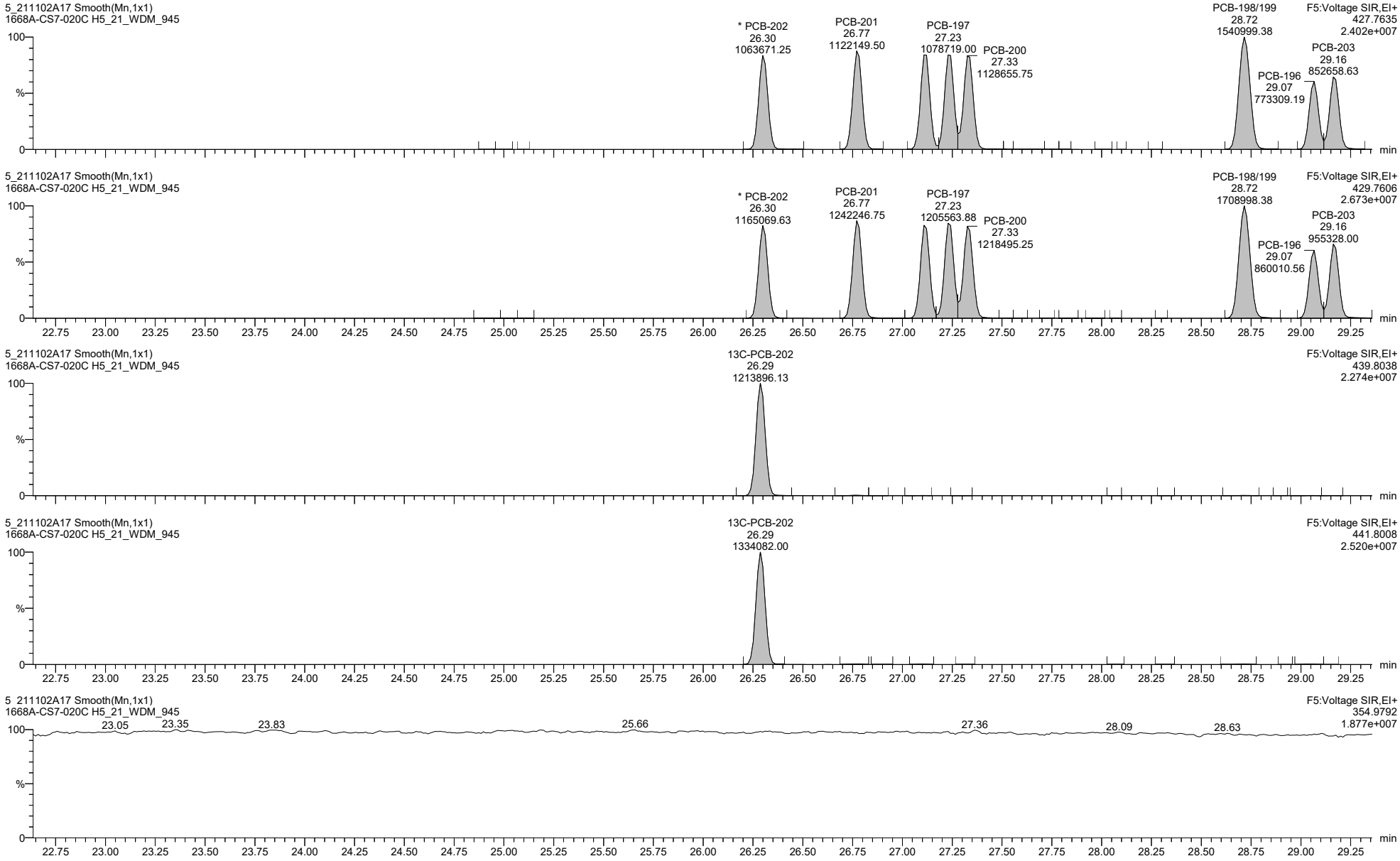
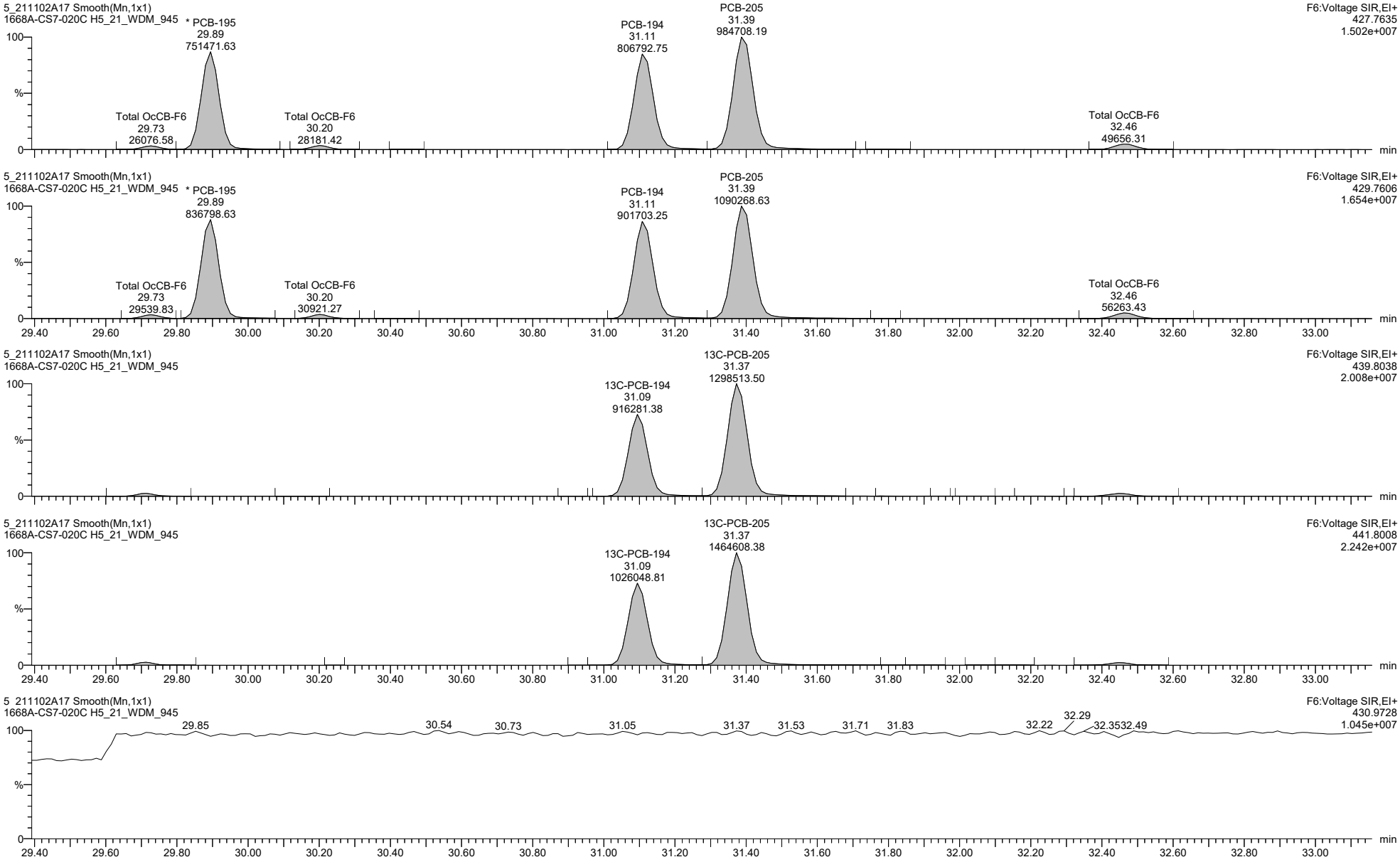


Quantify Sample Template Report **MassLynx V4.2 SCN1012**

Dataset: I:\Organics Instrument\HIGHRES GCMS Completed Results Files\HR-5\5-211102A2-1108NA.qld

Last Altered: Monday, November 08, 2021 13:43:10 Eastern Standard Time
Printed: Monday, November 08, 2021 16:03:38 Eastern Standard Time

Name: 5_211102A17, Date: 02-Nov-2021, Time: 21:19:40, ID: H5_21_WDM_945, Description: 1668A-CS7-020C, Vial: Tray1:2



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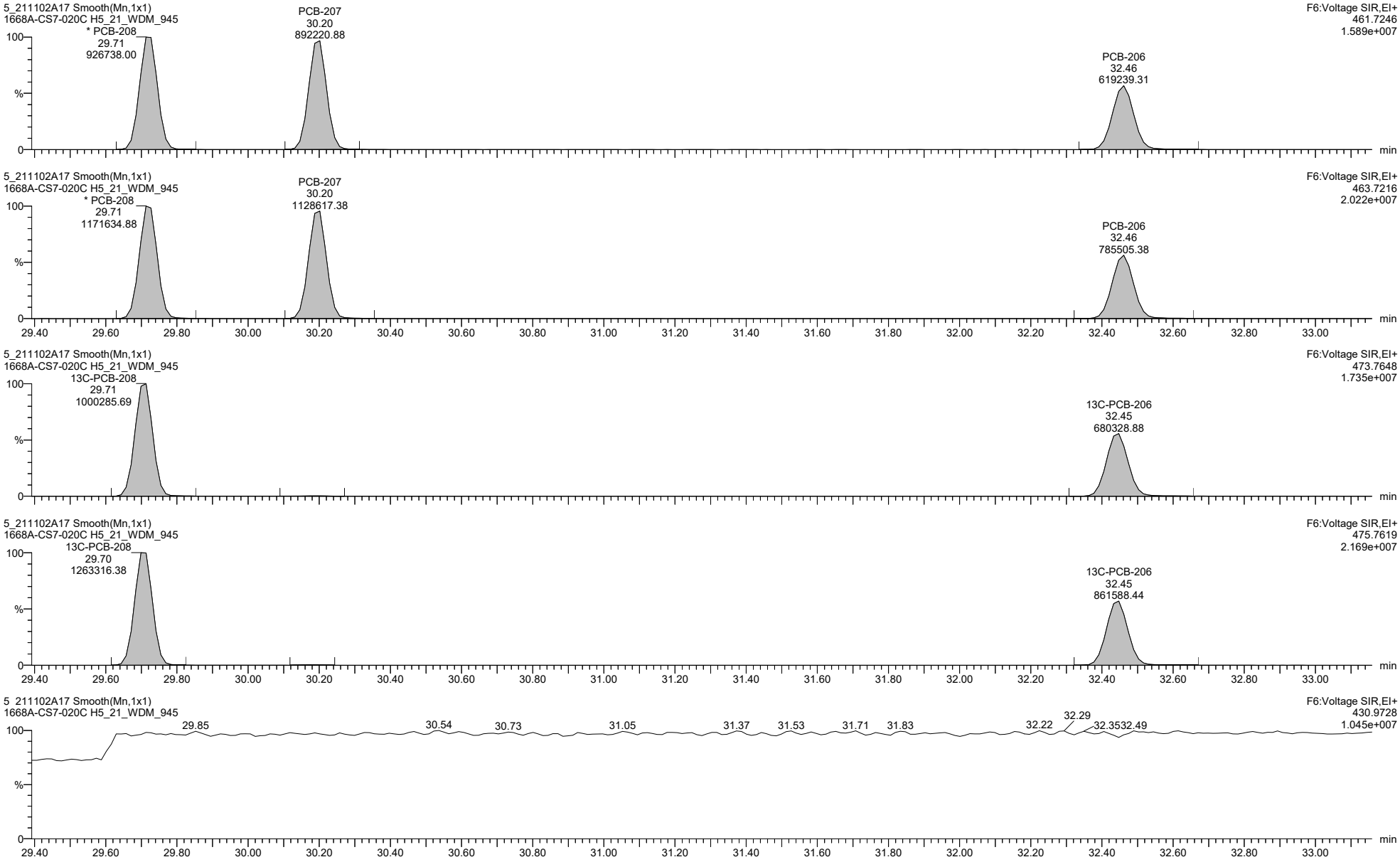

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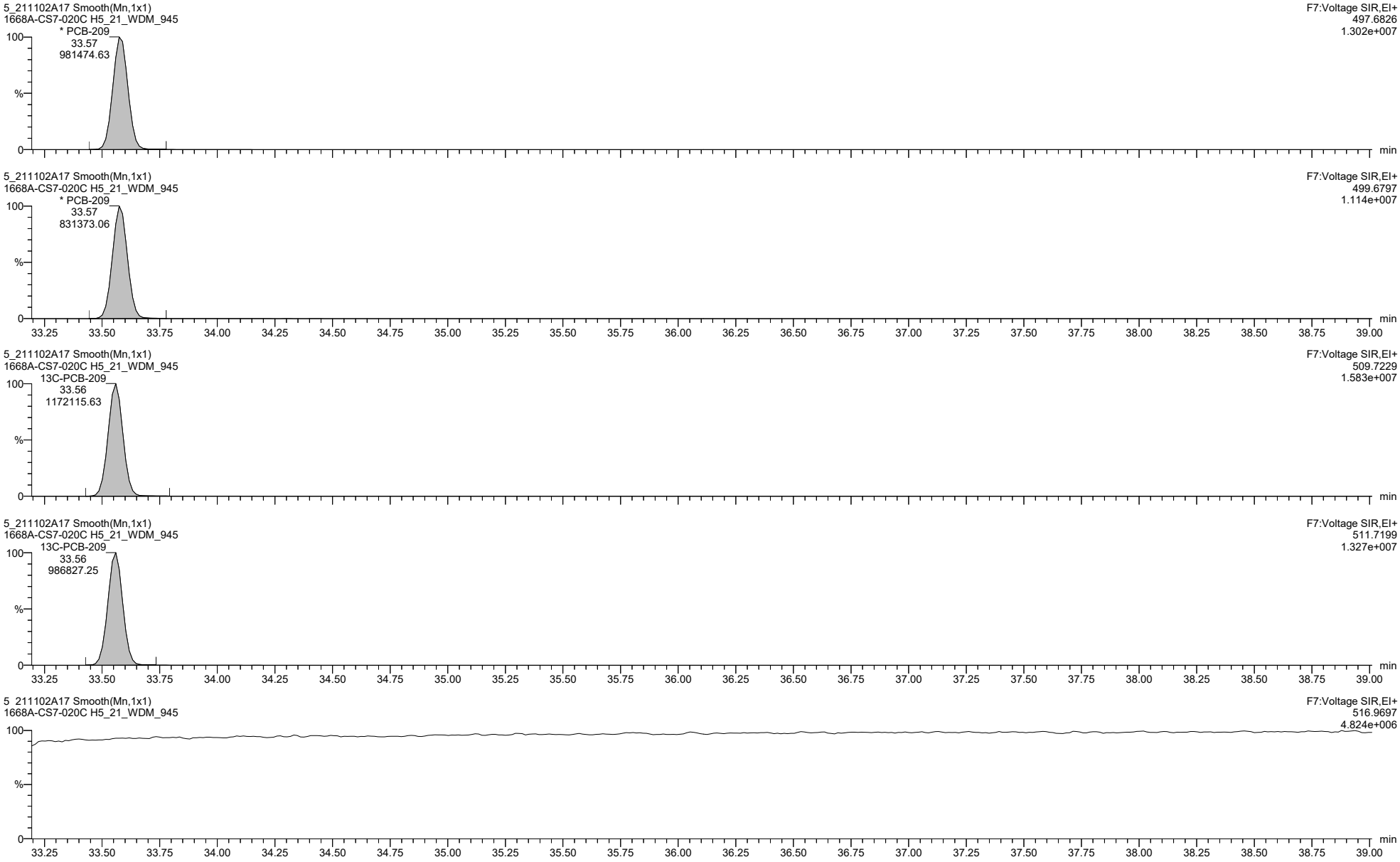

Quantify Sample Template Report **MassLynx V4.2 SCN1012**

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Last Altered: Monday, November 08, 2021 13:43:10 Eastern Standard Time
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Method: C:\MassLynx\PCB.PRO\MethDB\1668_OCTYL_209-1025.mdb 25 Oct 2021 11:29:00
Calibration: 08 Nov 2021 13:20:26

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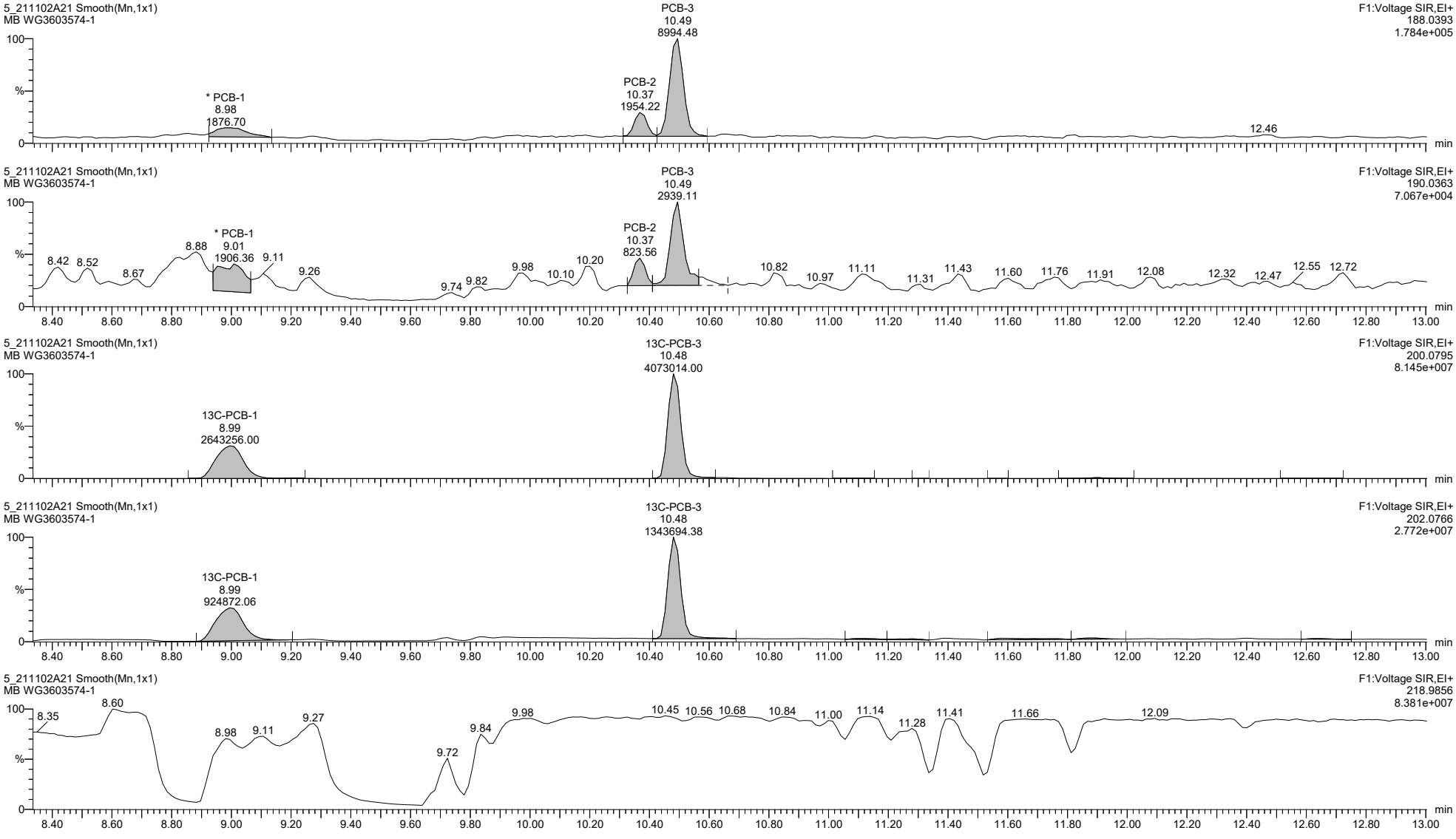

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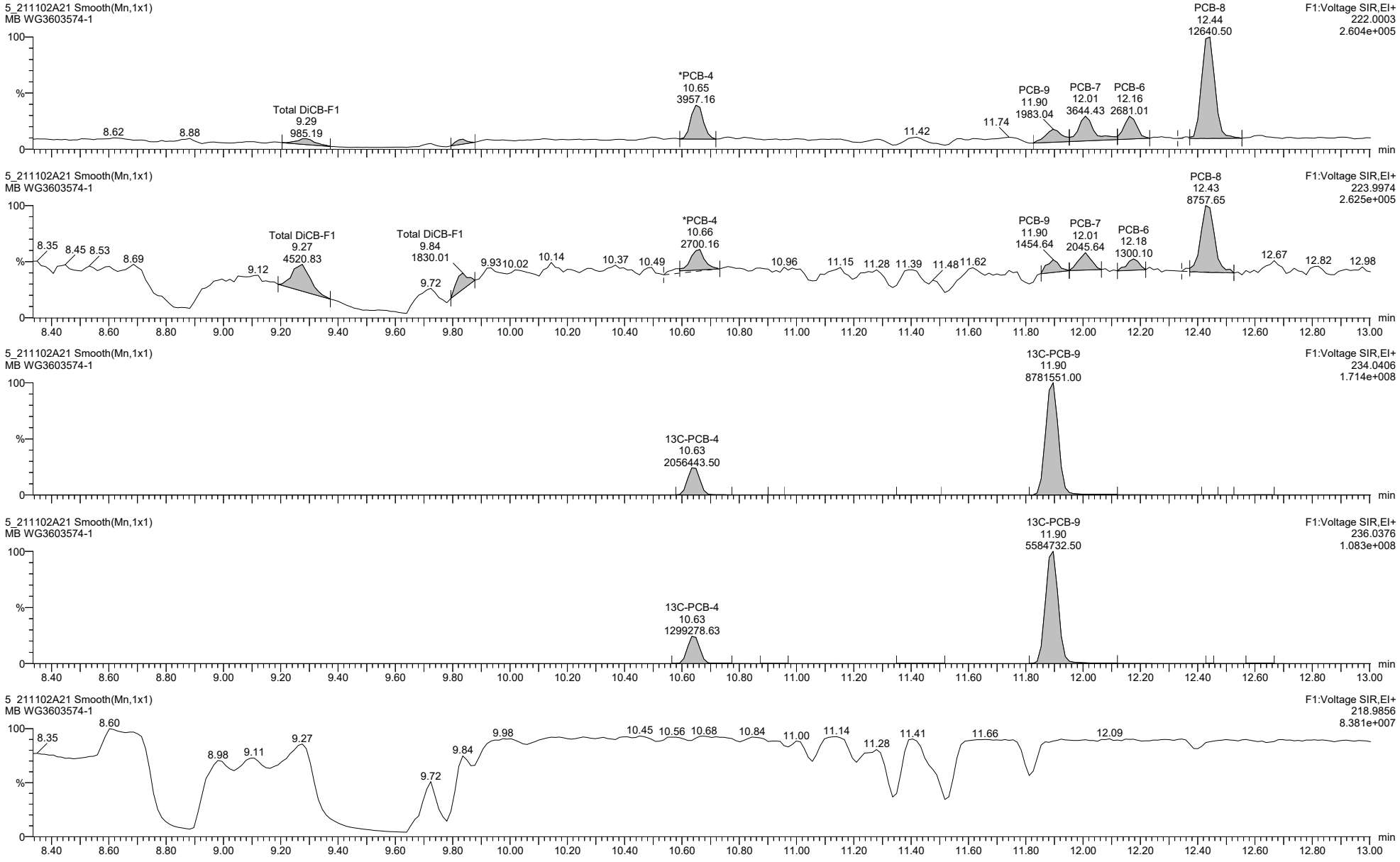

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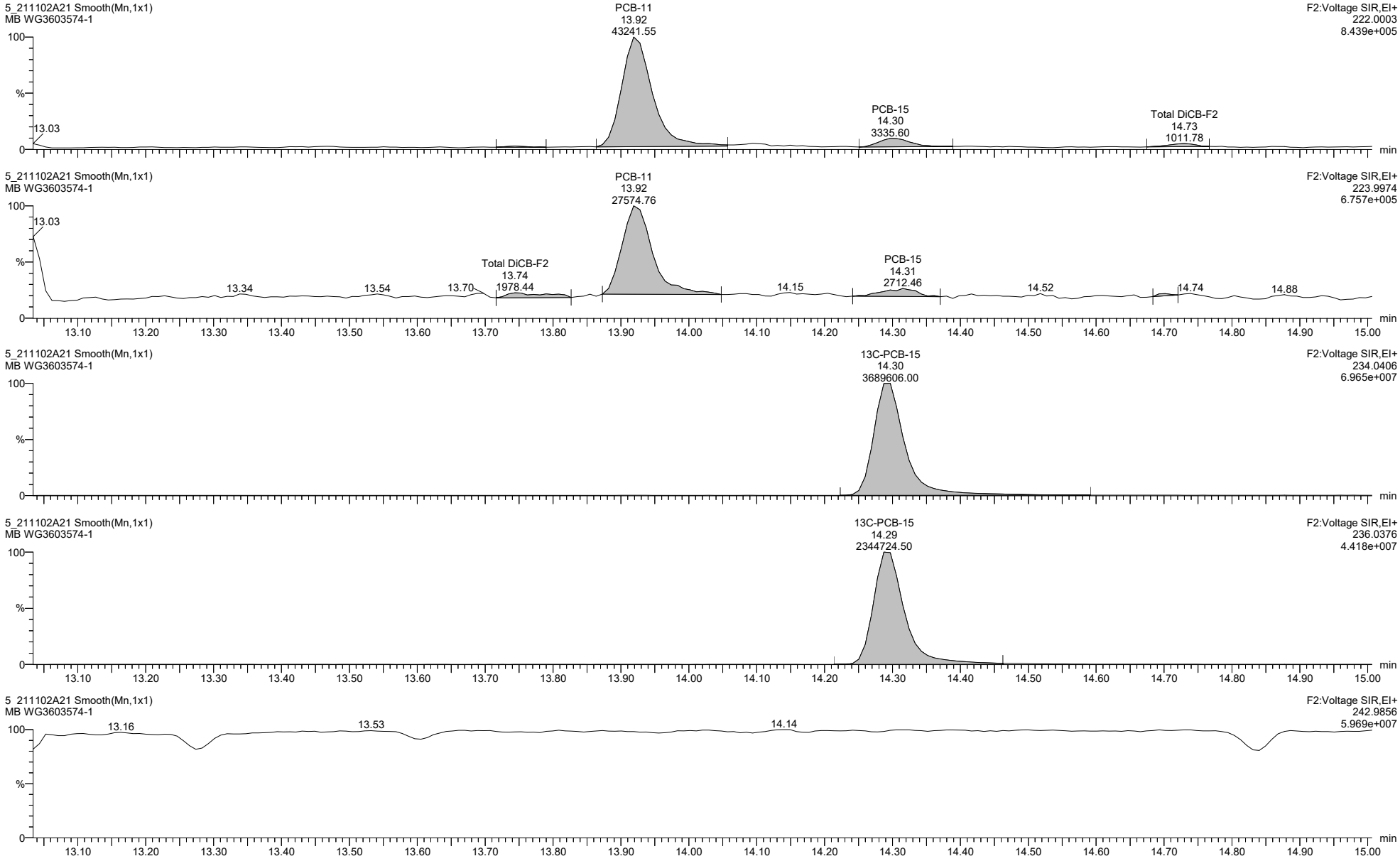

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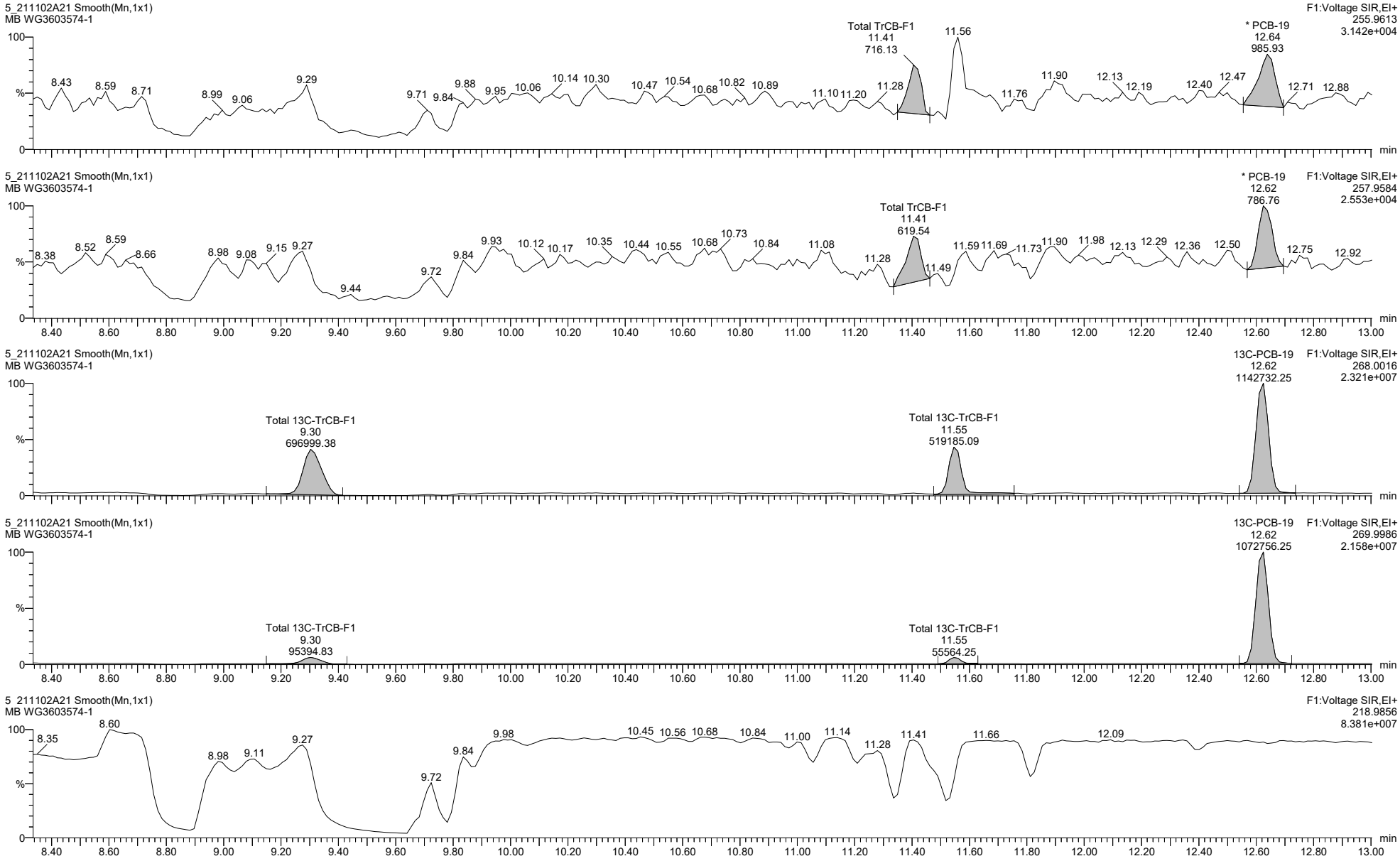

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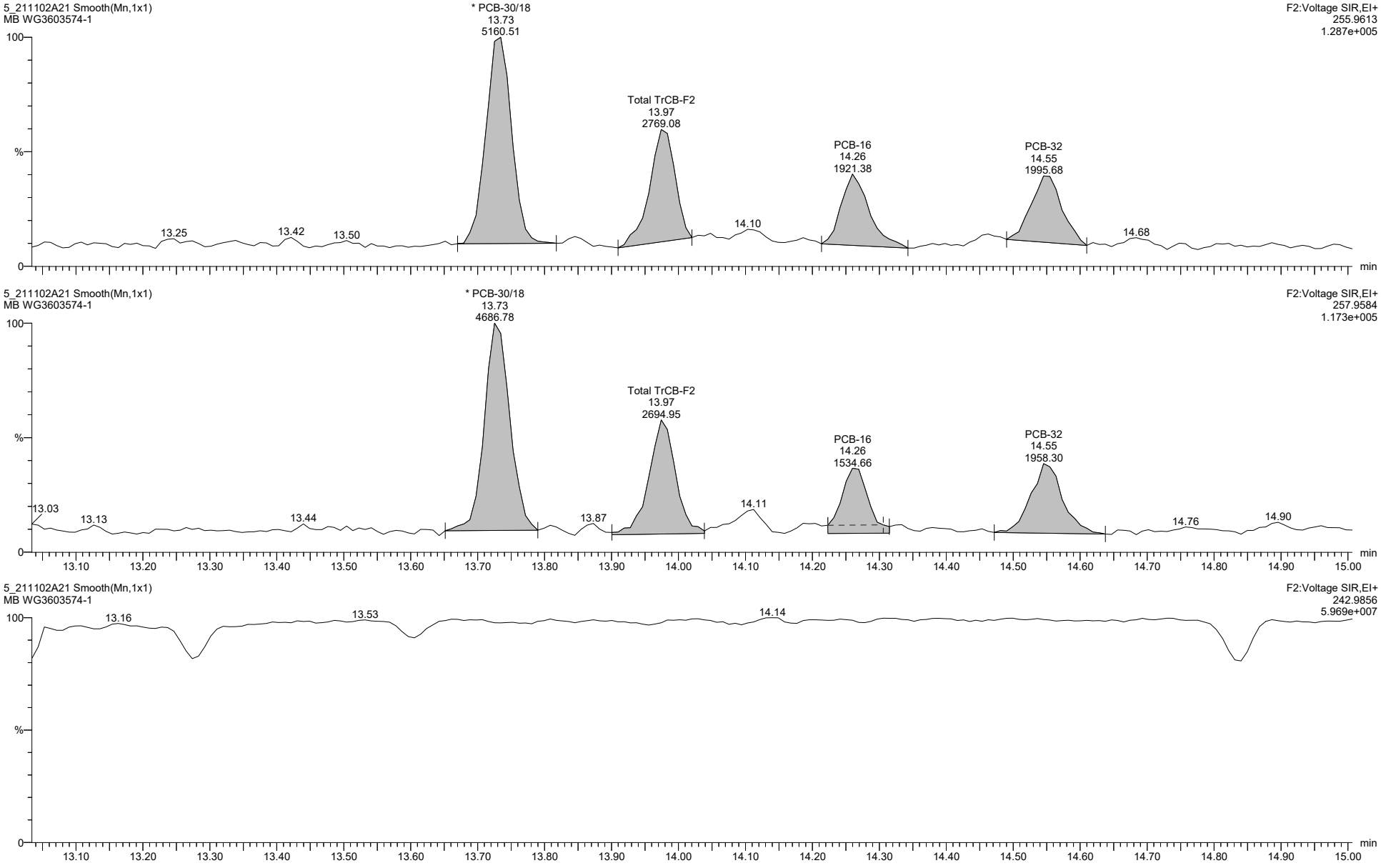

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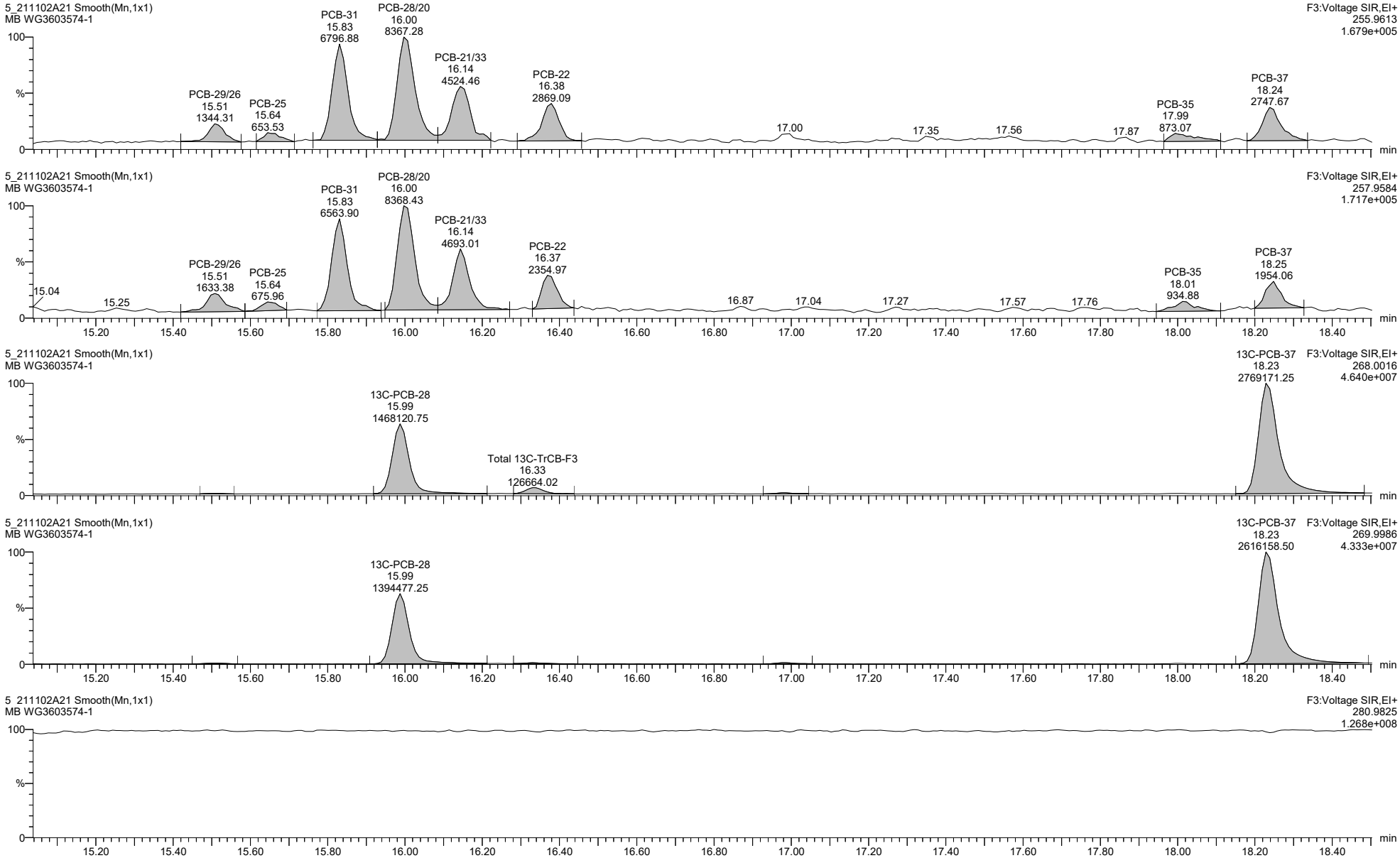

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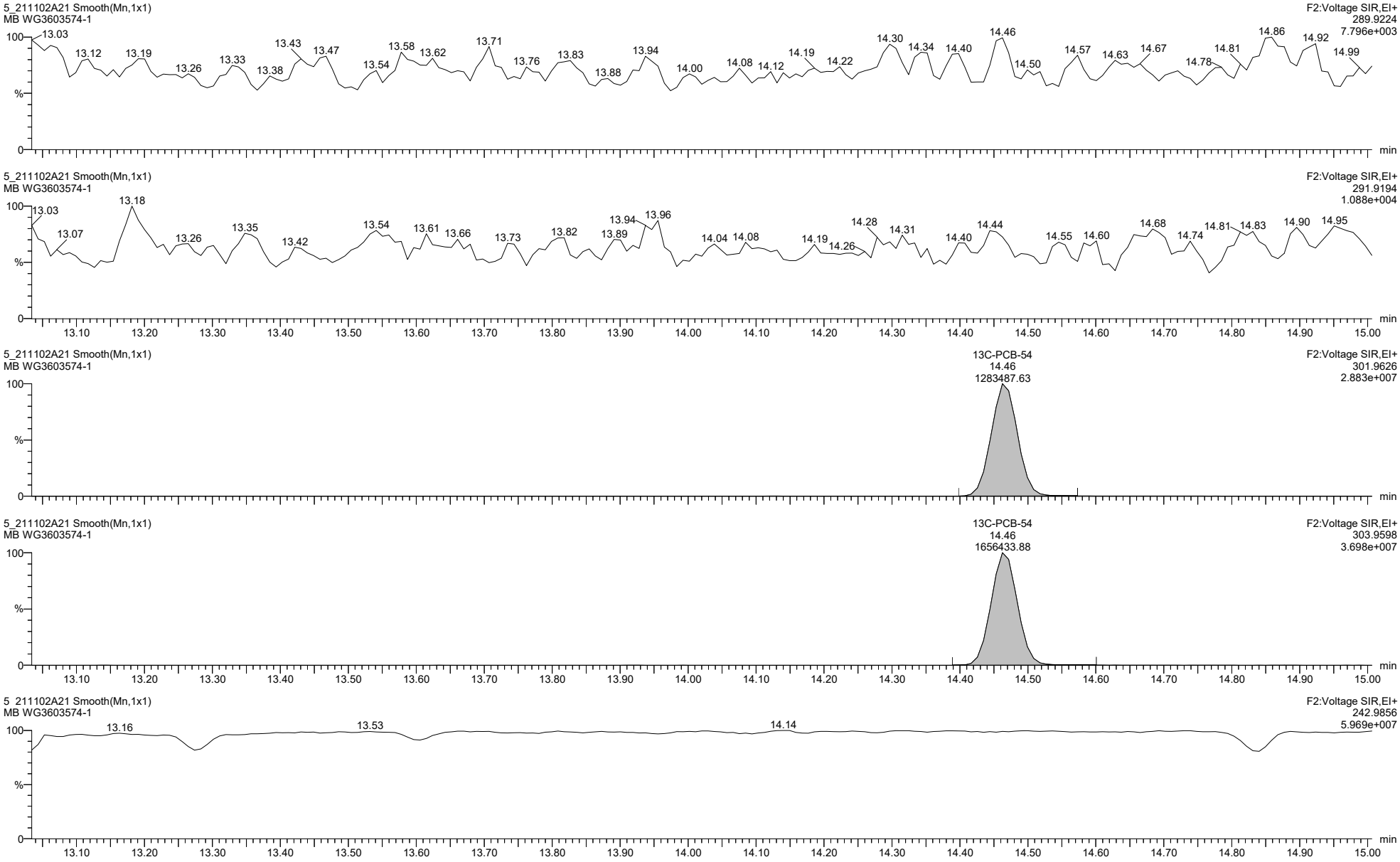

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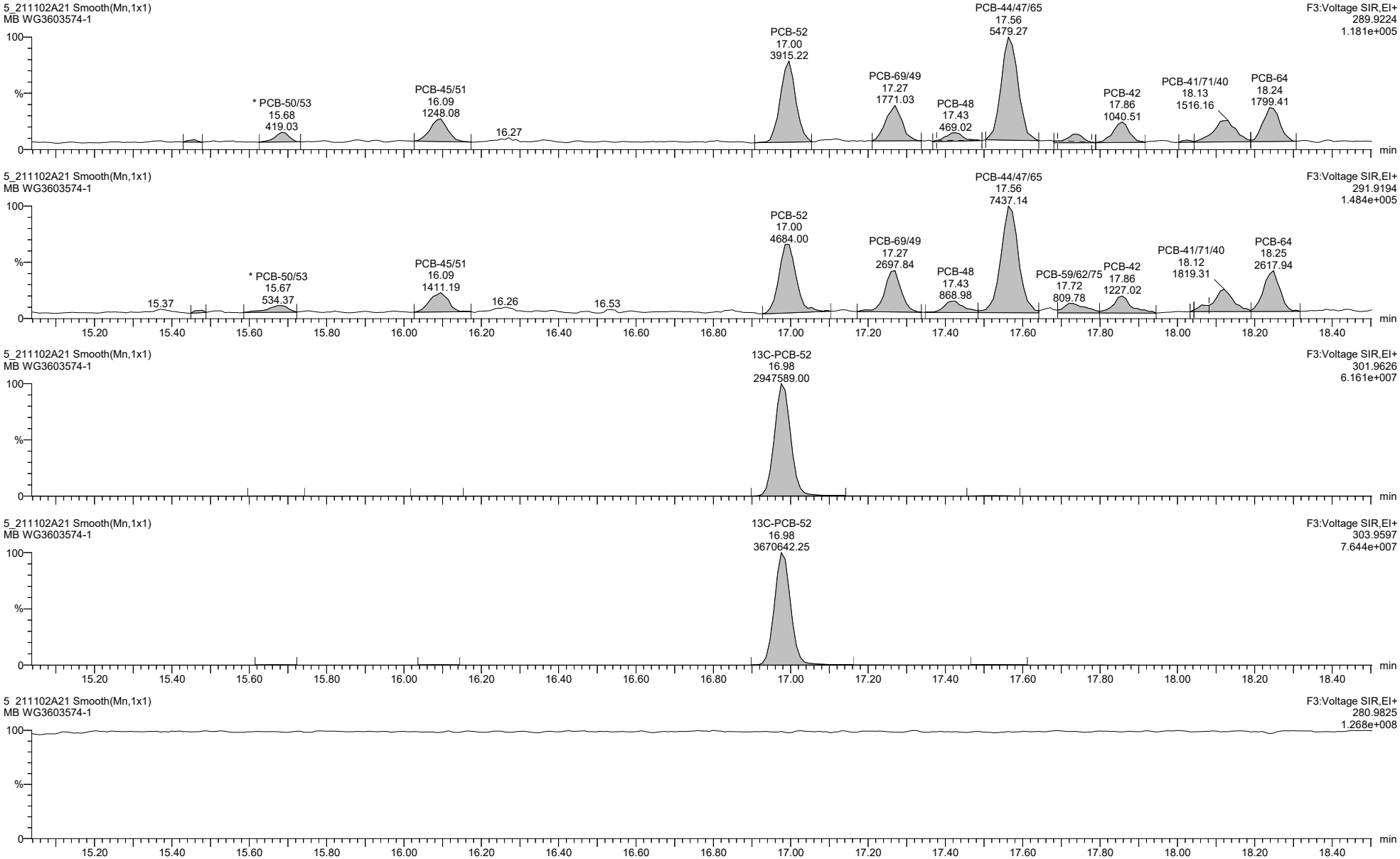

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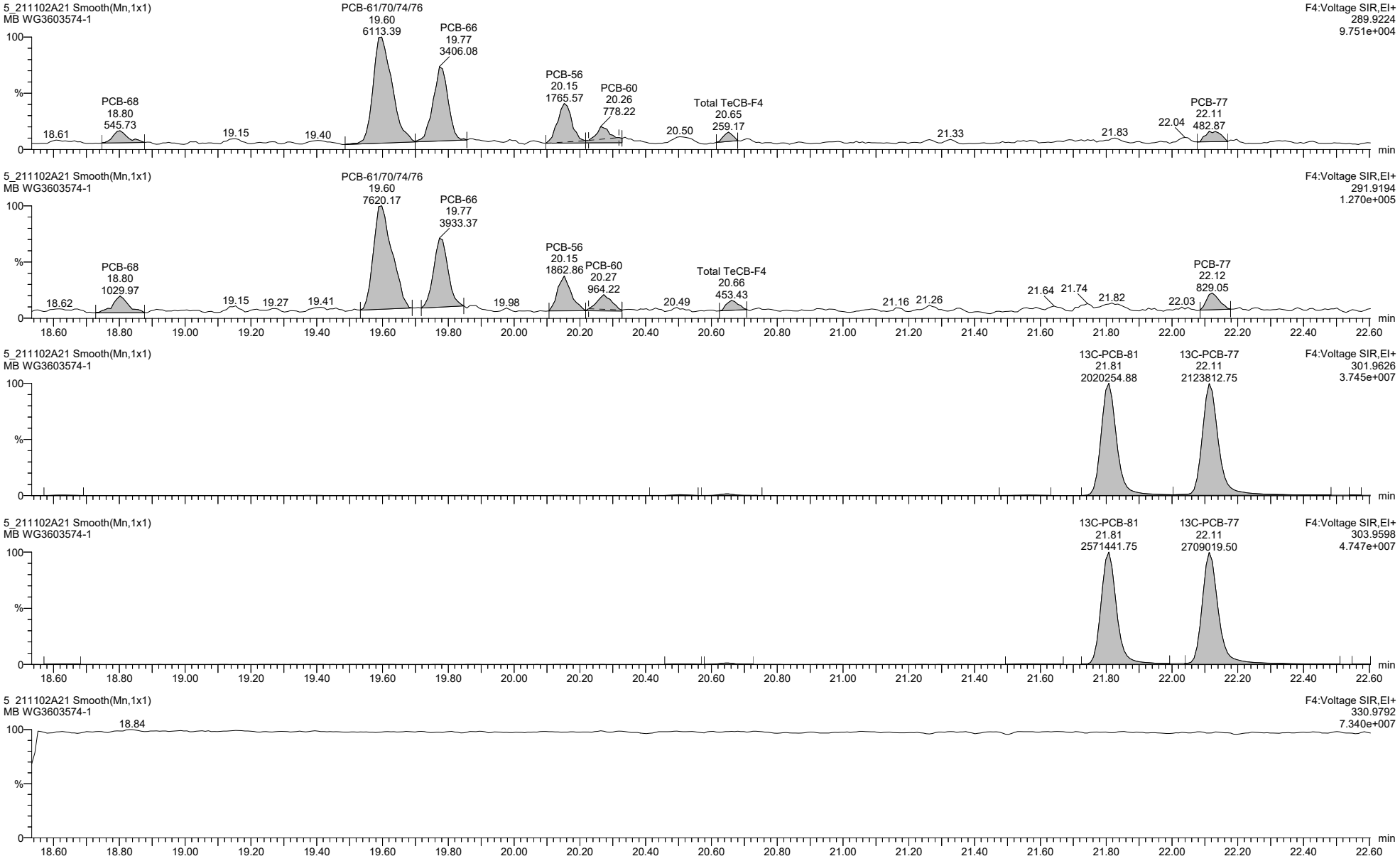

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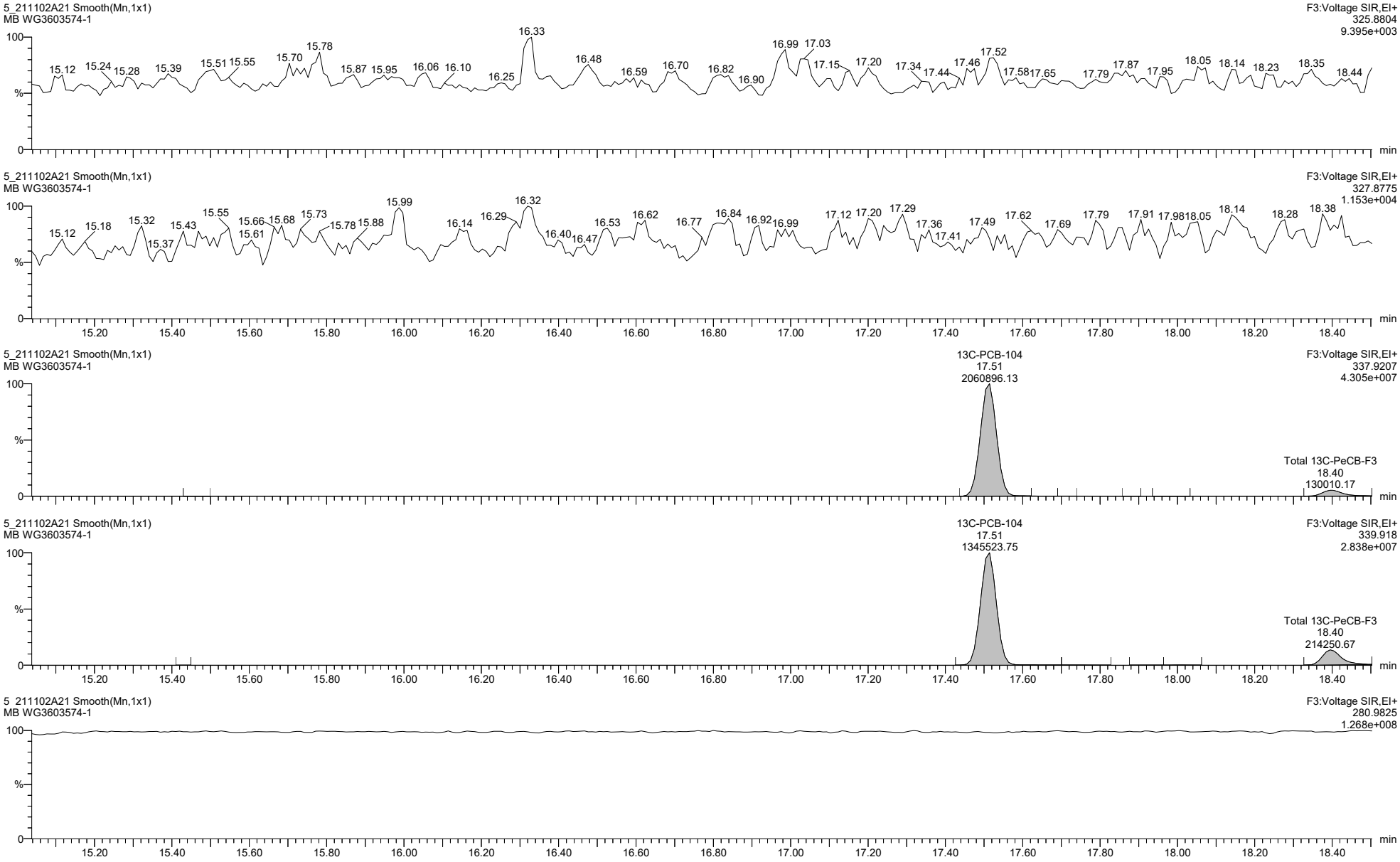

Quantify Sample Template Report **MassLynx V4.2 SCN1012**

Dataset: I:\Organics Instrument\HIGHRES GCMS Completed Results Files\HR-5\5-211102A2-1108NA.qld

Last Altered: Monday, November 08, 2021 13:43:10 Eastern Standard Time
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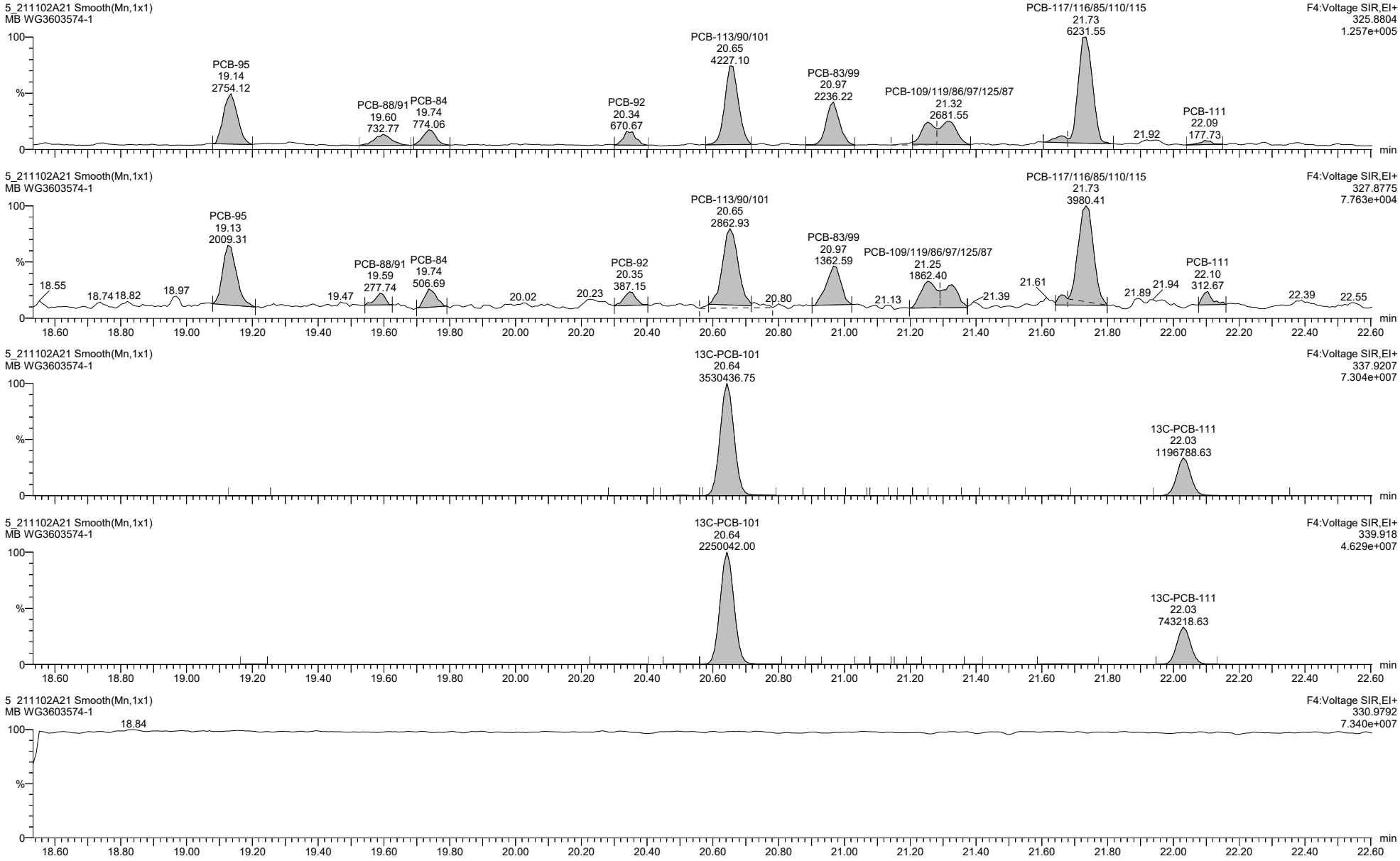

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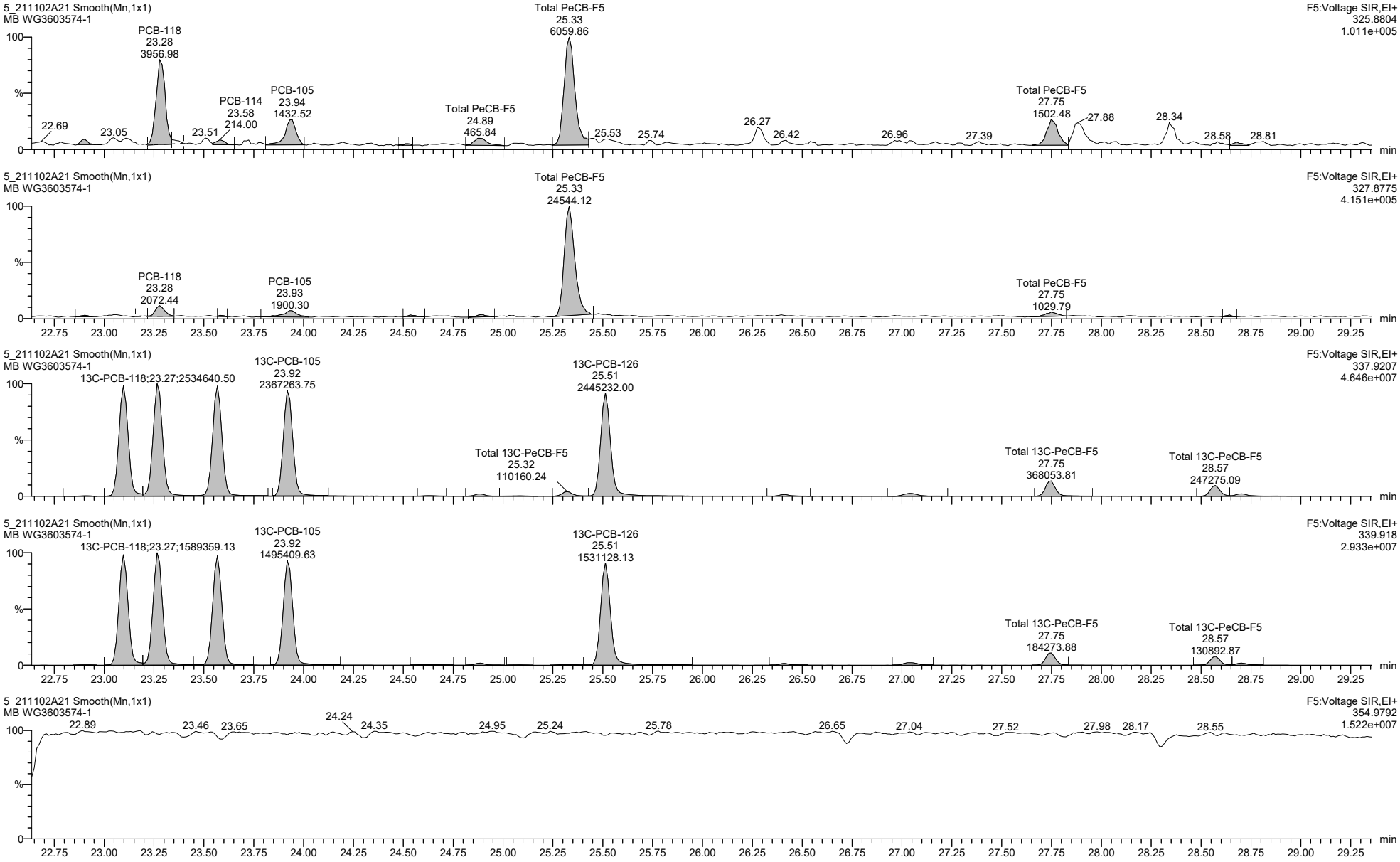

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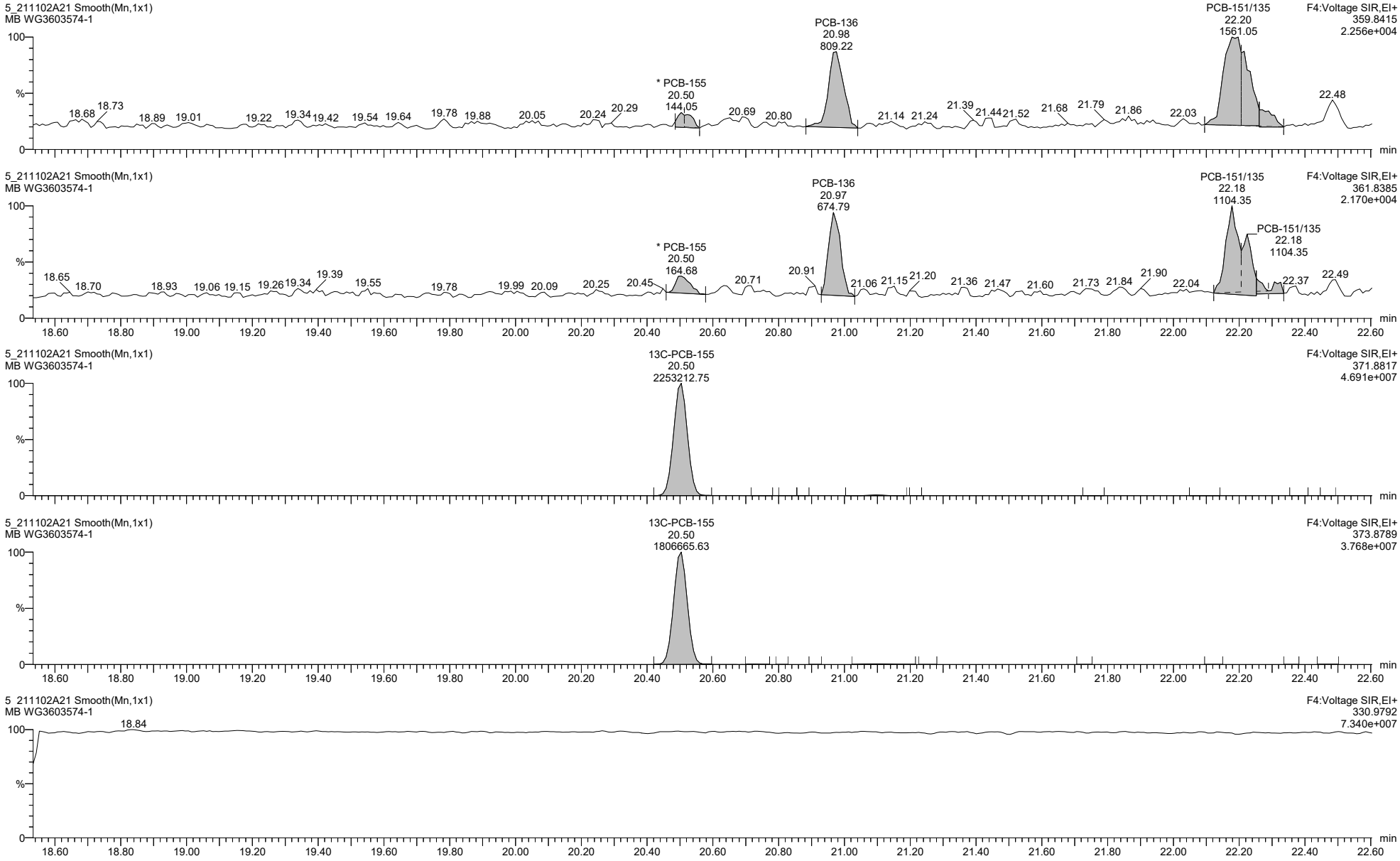

Quantify Sample Template Report **MassLynx V4.2 SCN1012**

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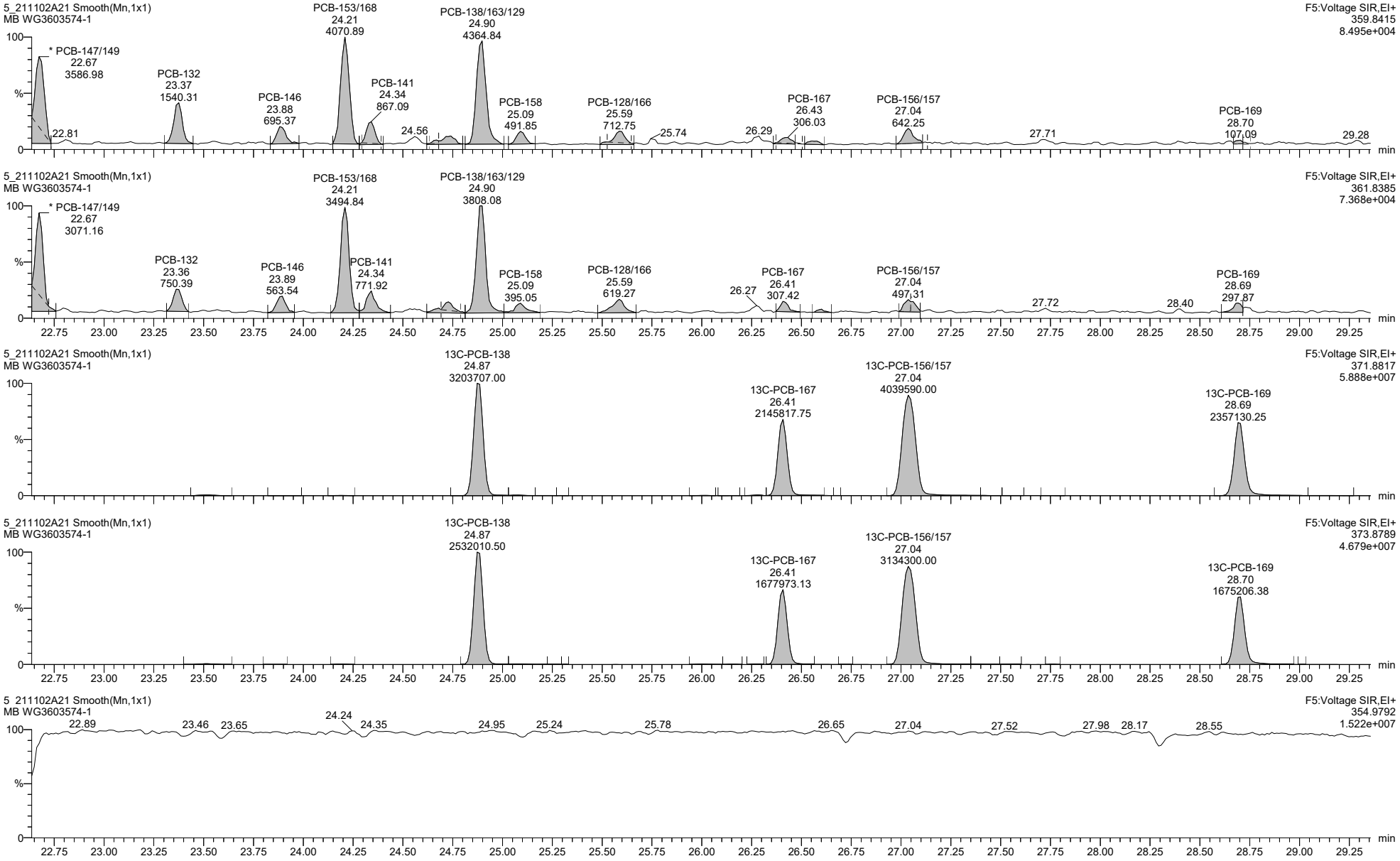

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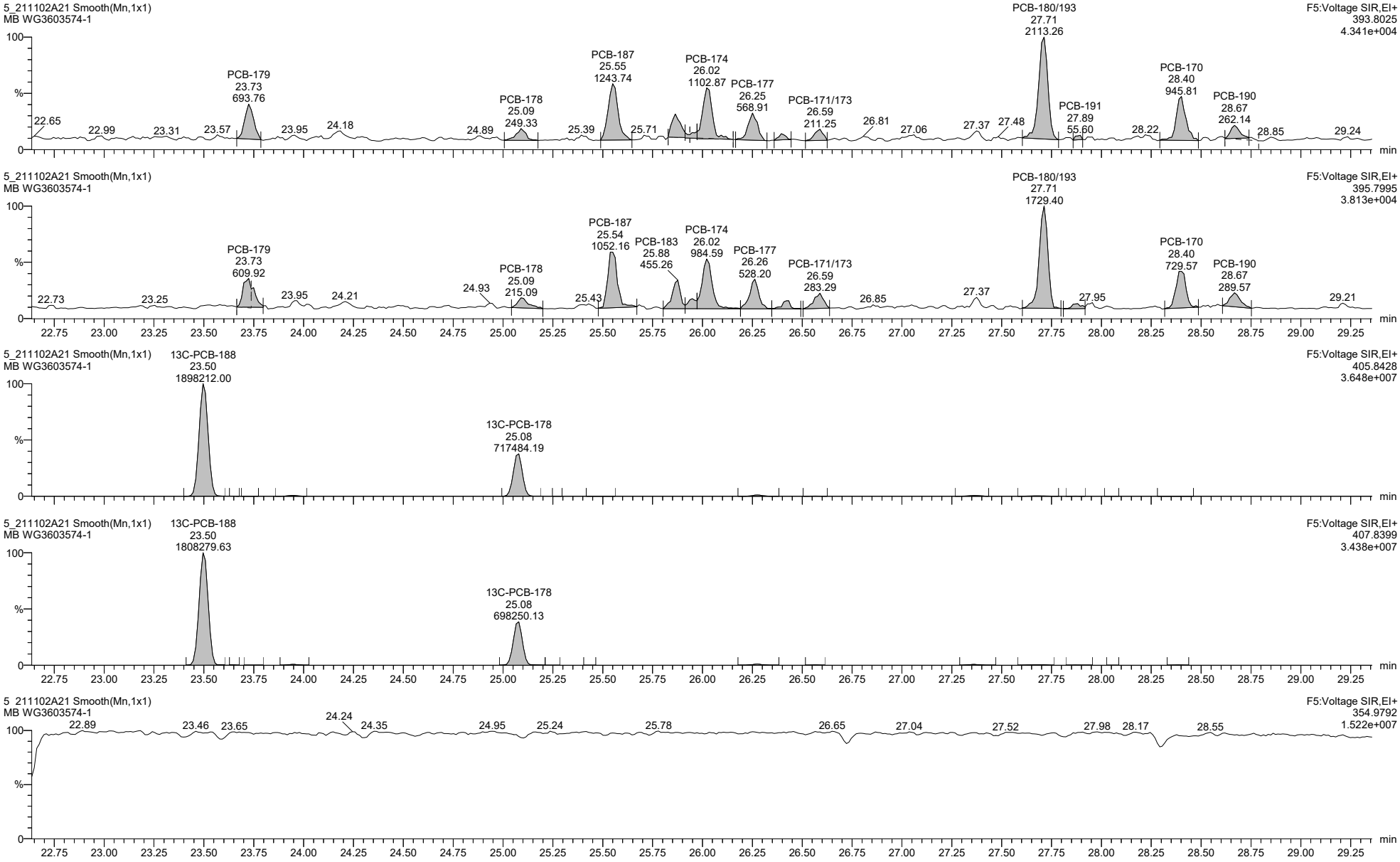

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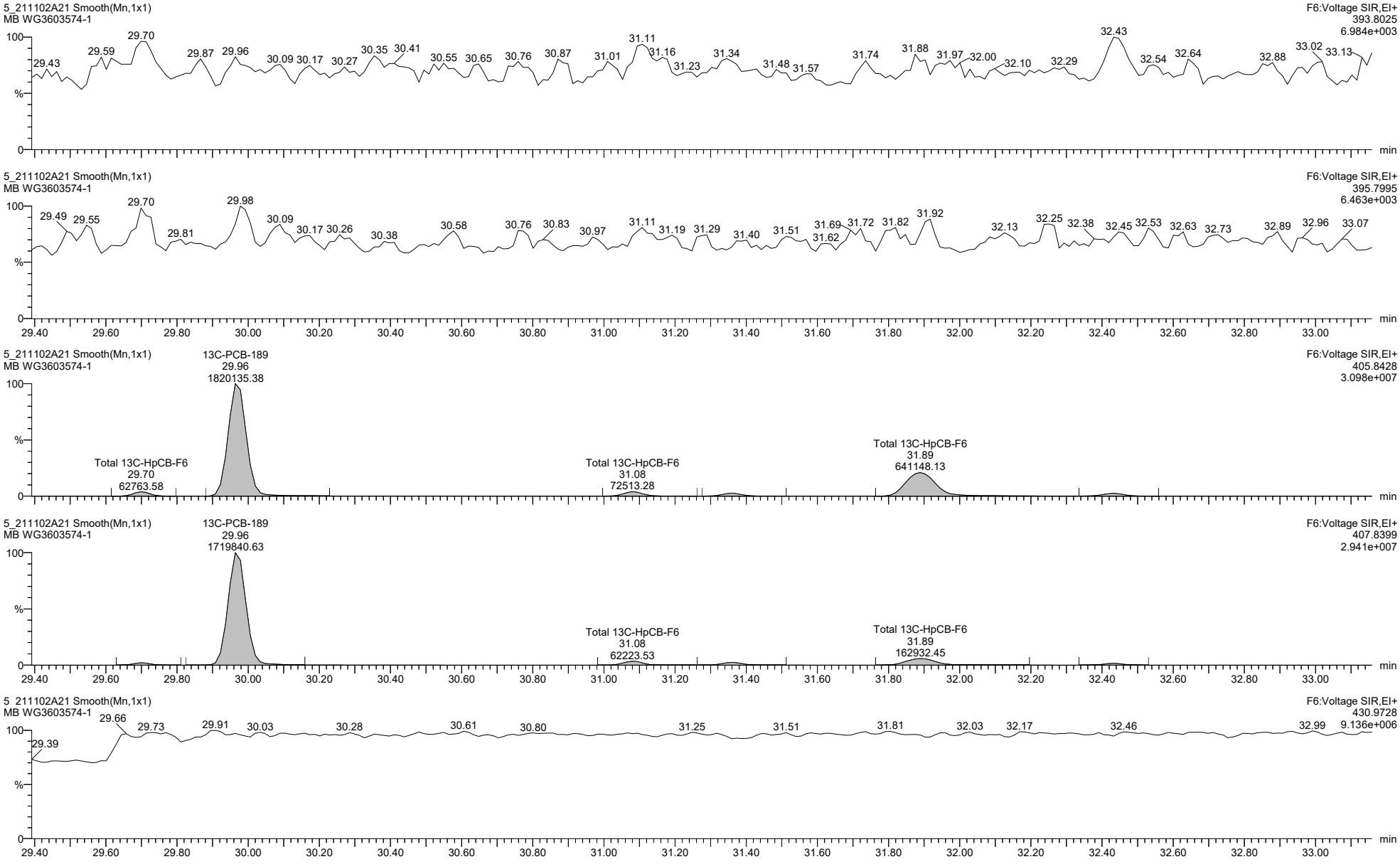

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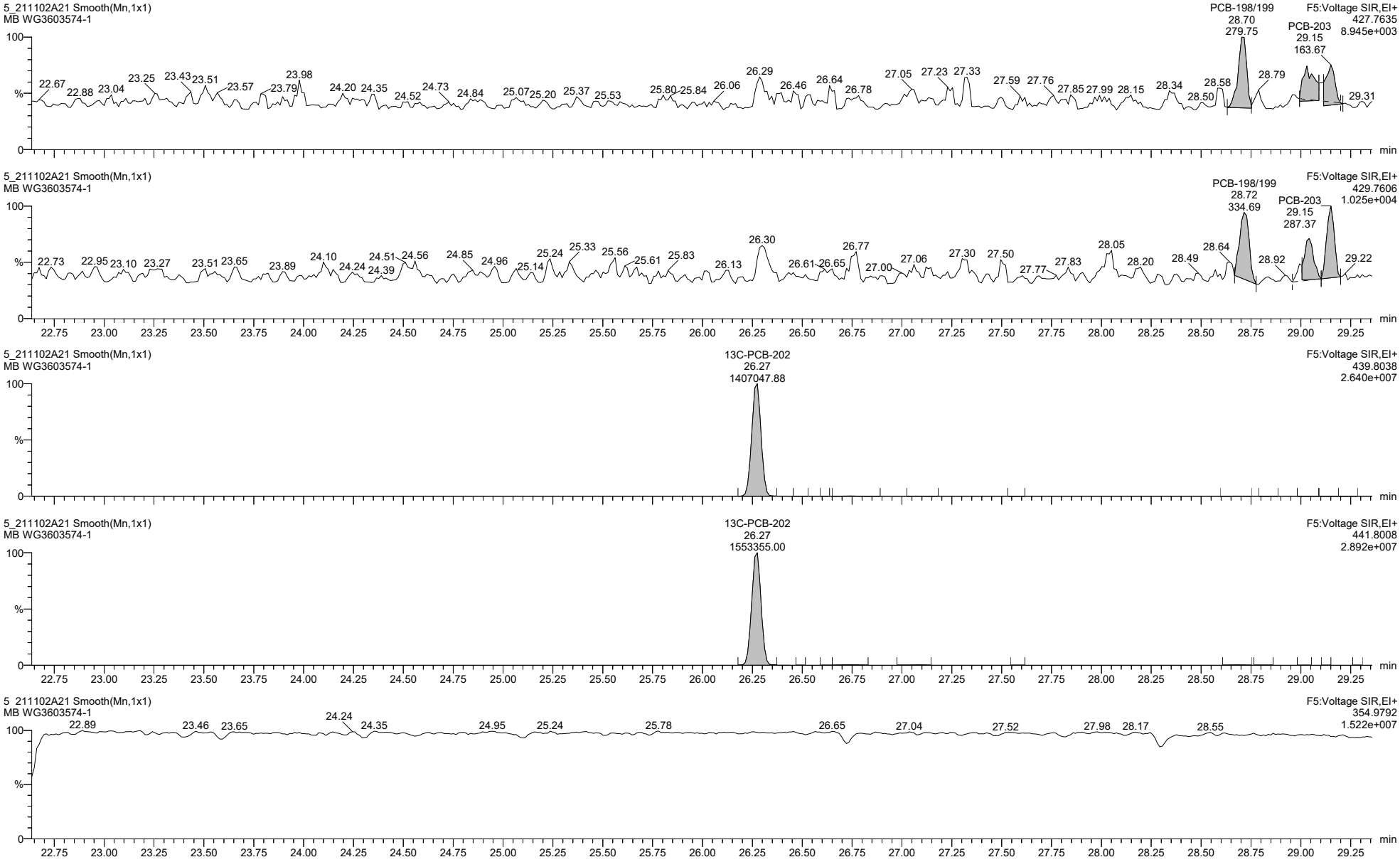

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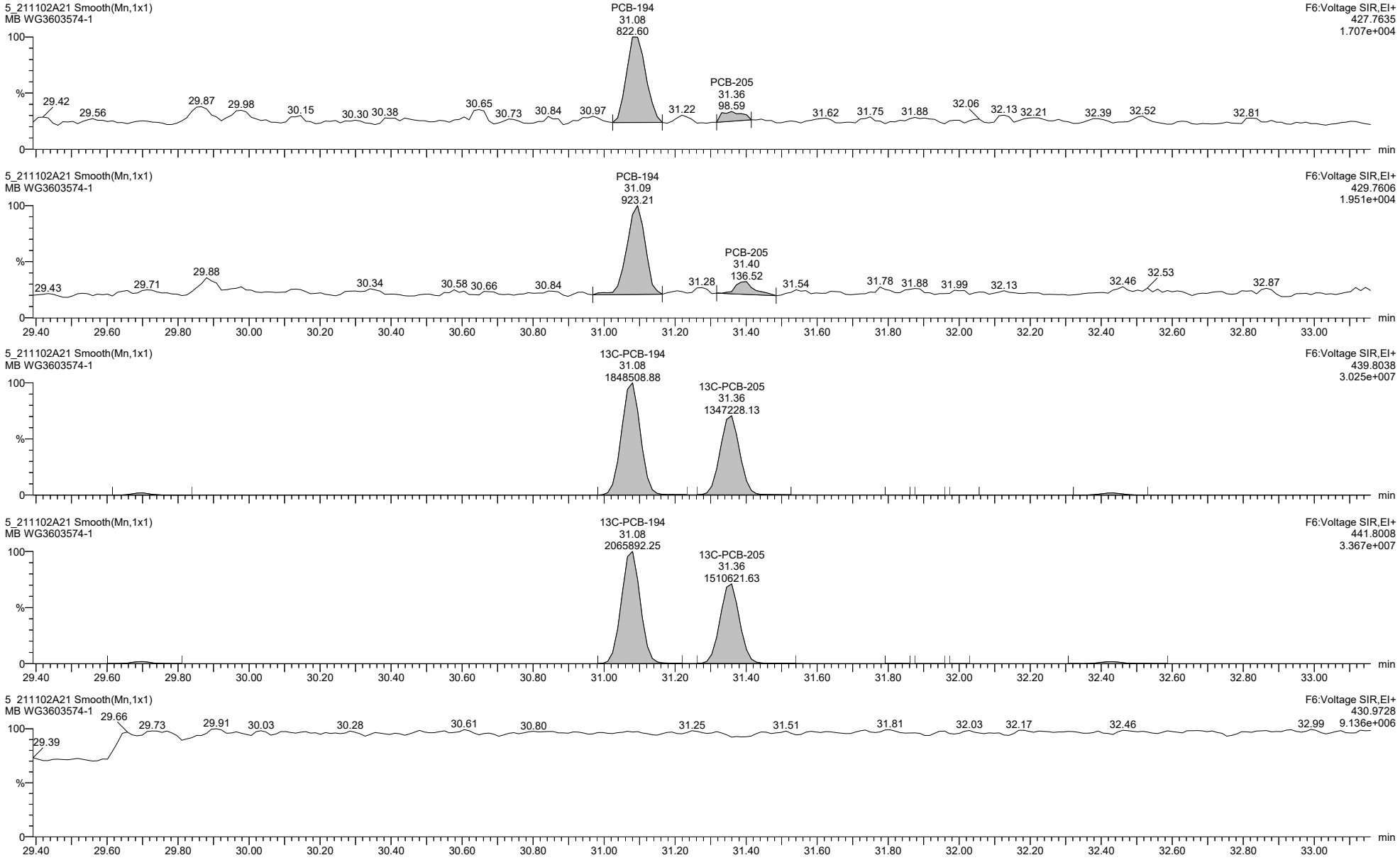

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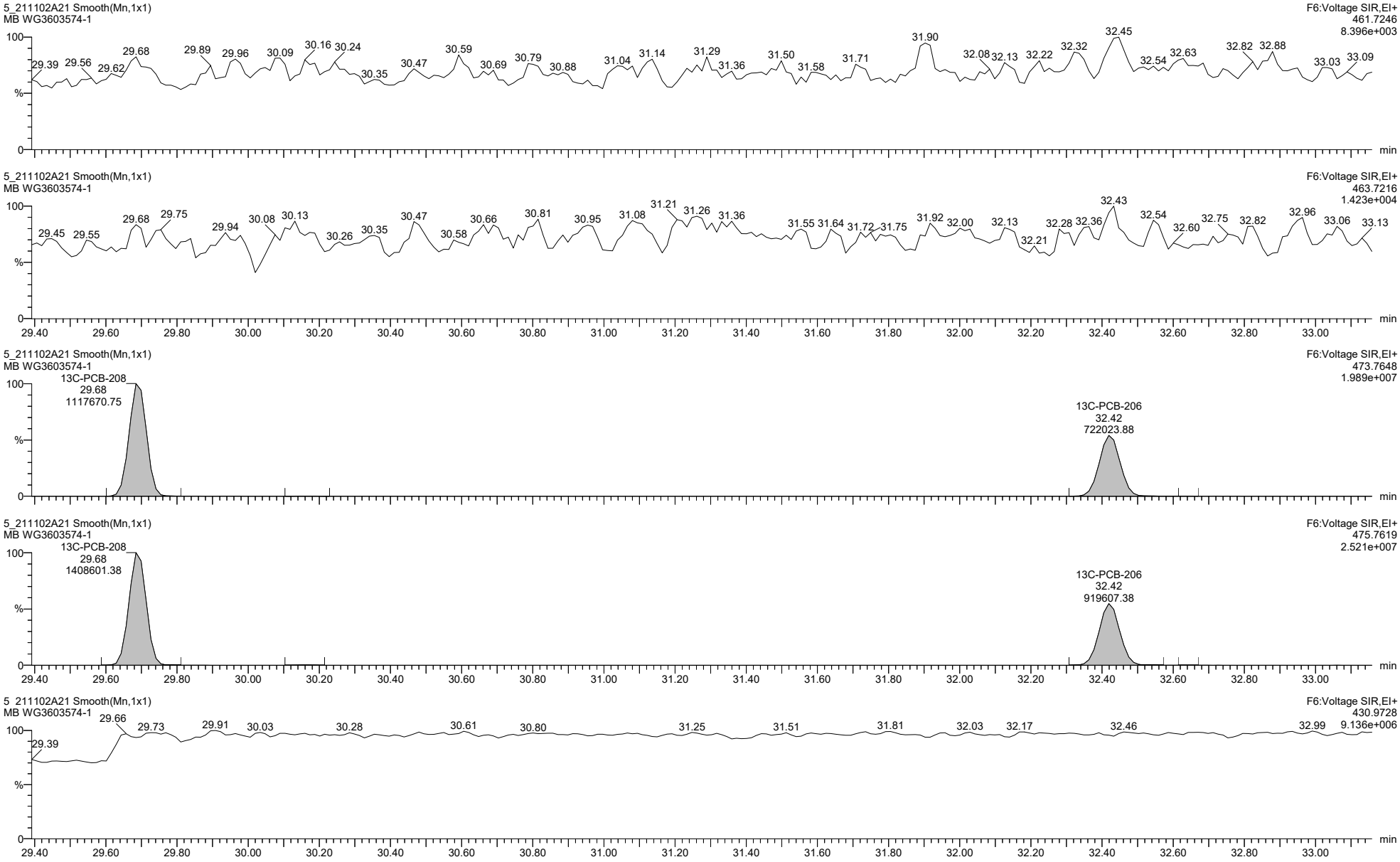

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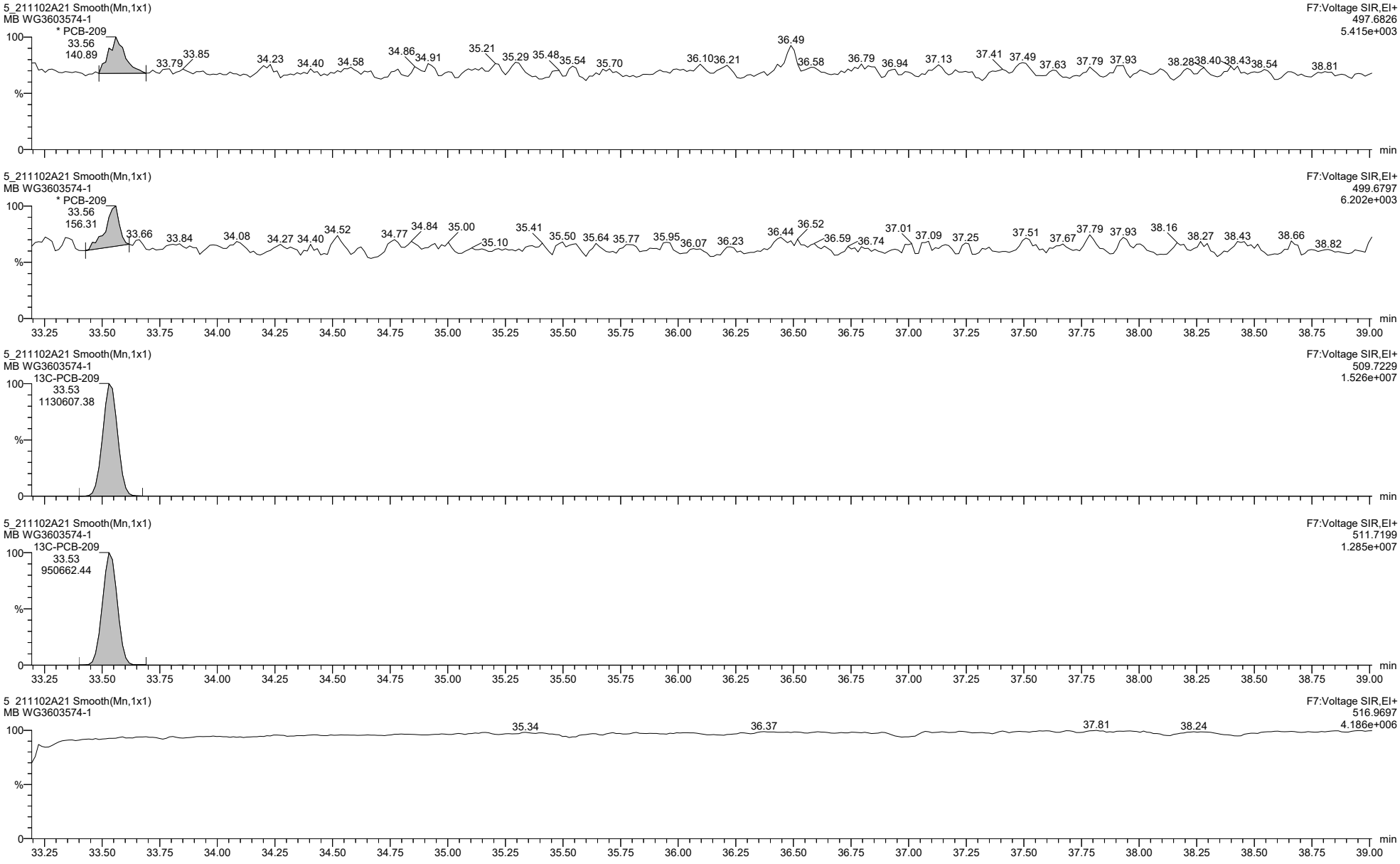

Quantify Sample Template Report **MassLynx V4.2 SCN1012**

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Method: C:\MassLynx\PCB.PRO\MethDB\1668_OCTYL_209-1025.mdb 25 Oct 2021 11:29:00
Calibration: 08 Nov 2021 13:20:26

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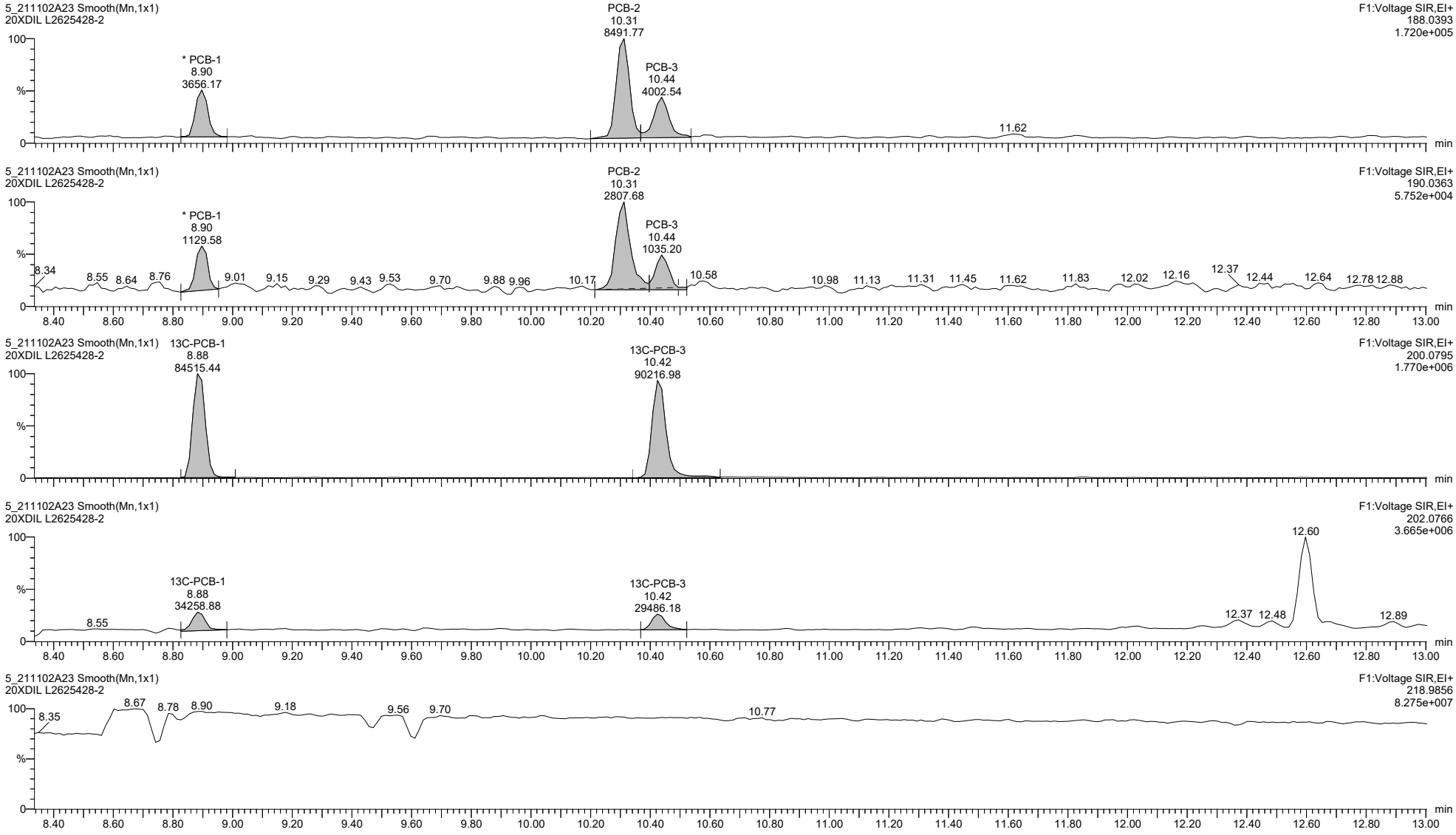

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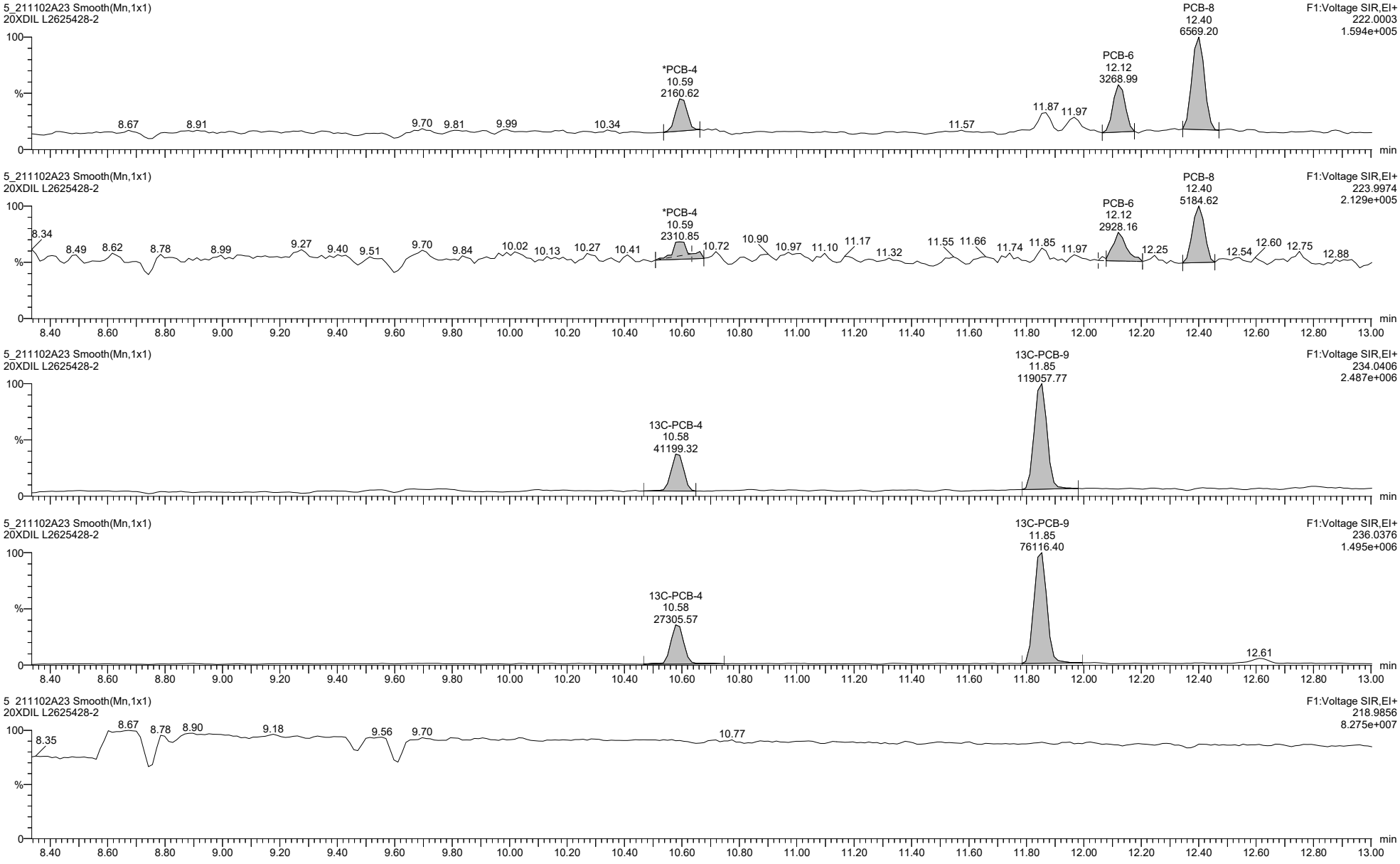

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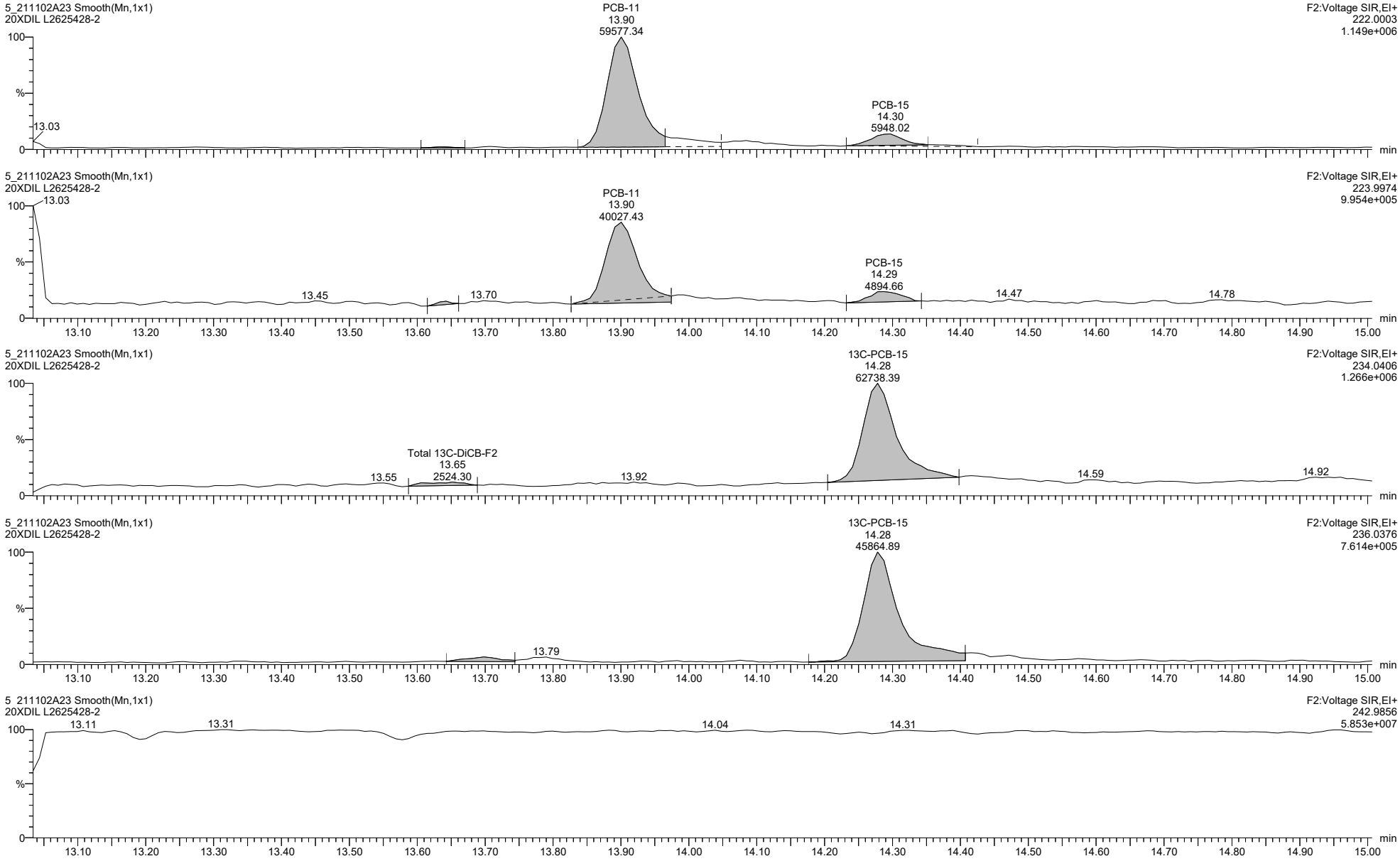

Quantify Sample Template Report **MassLynx V4.2 SCN1012**

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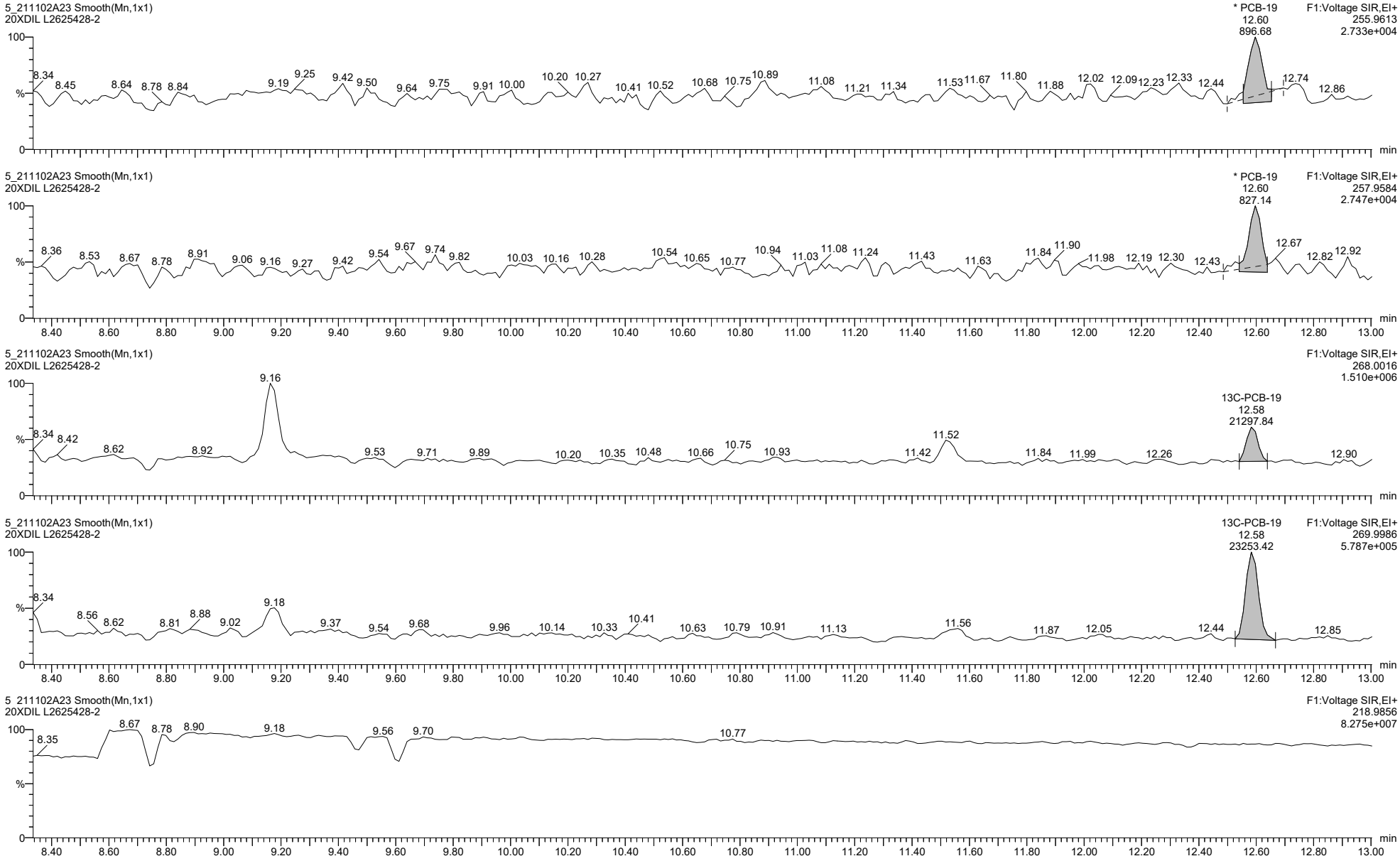

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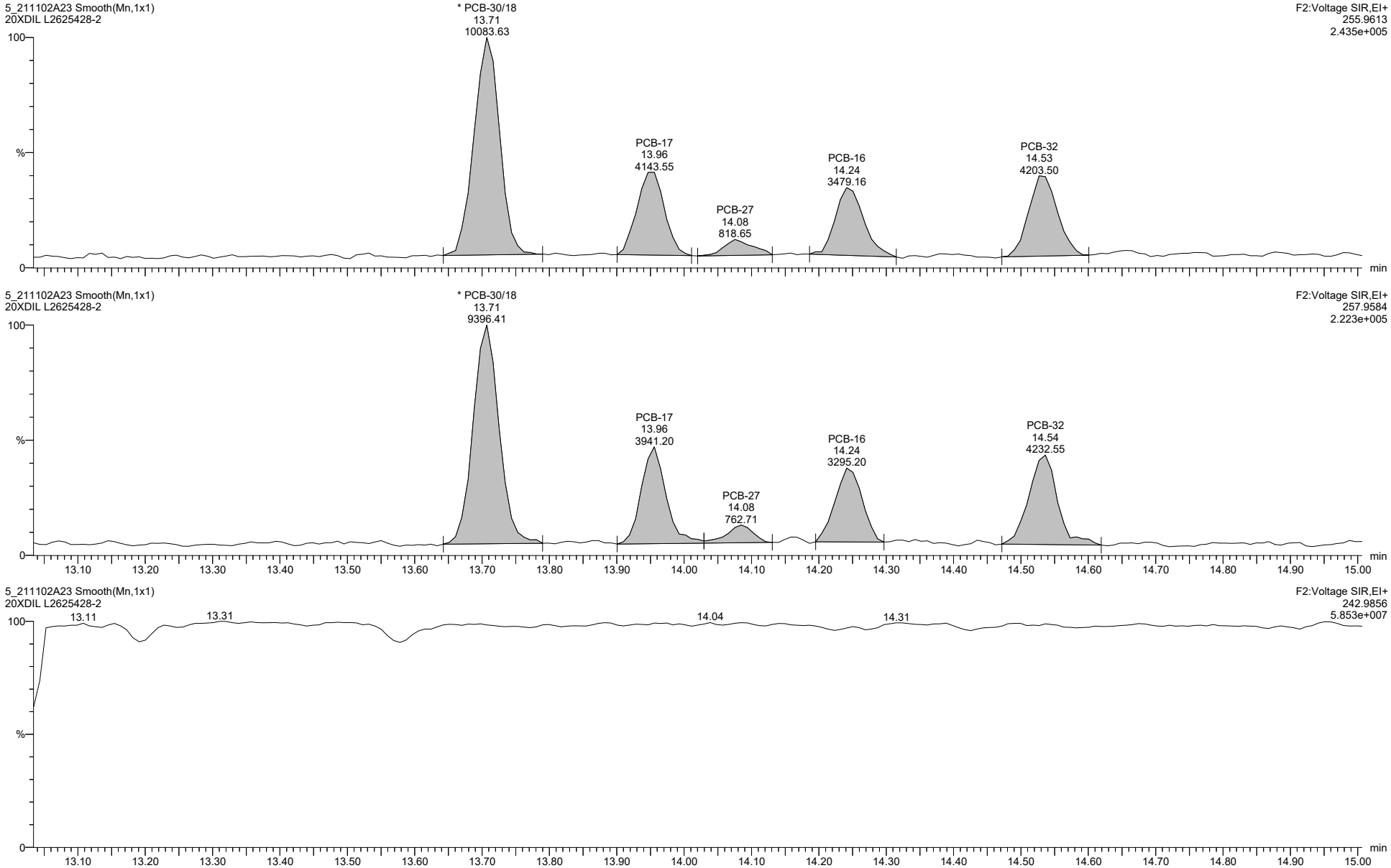

Quantify Sample Template Report **MassLynx V4.2 SCN1012**

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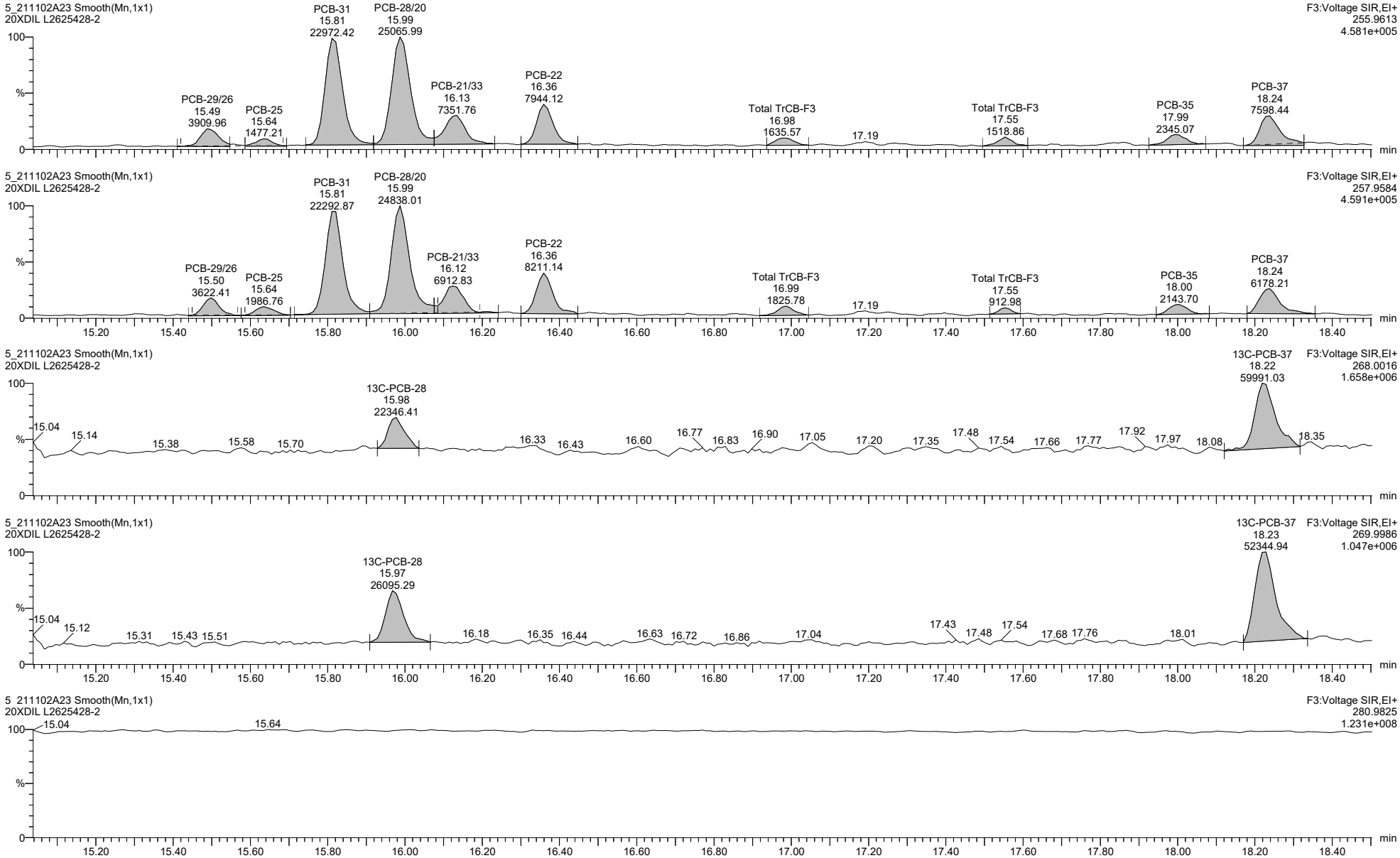

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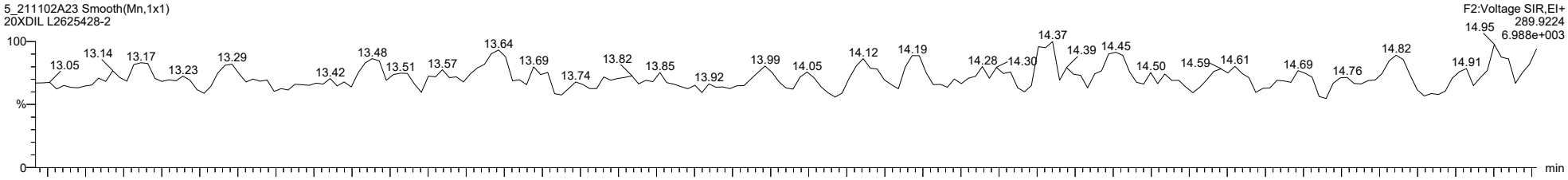

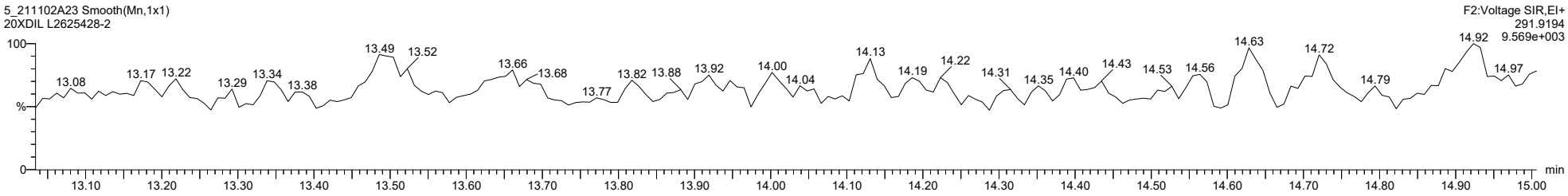

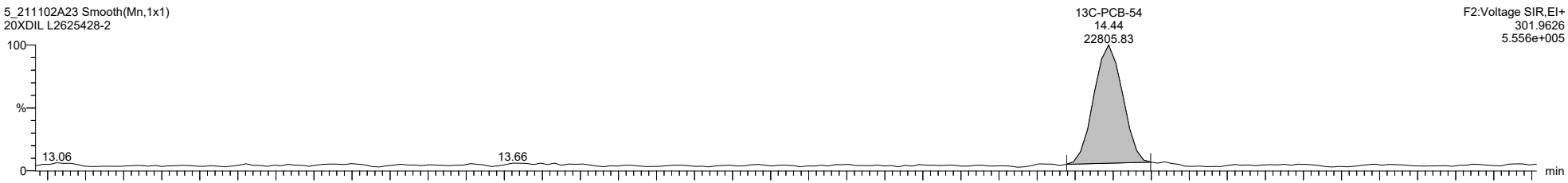

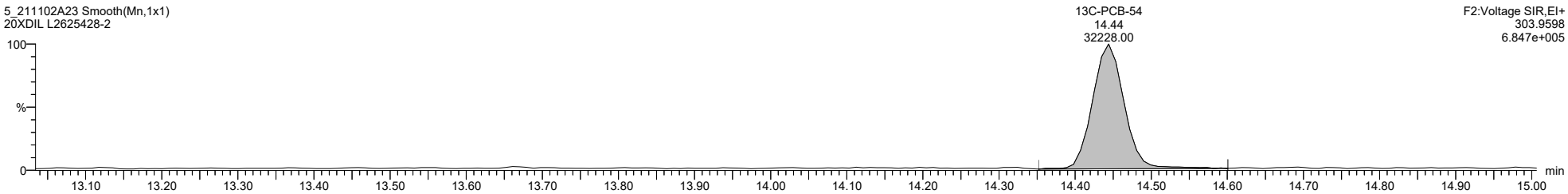

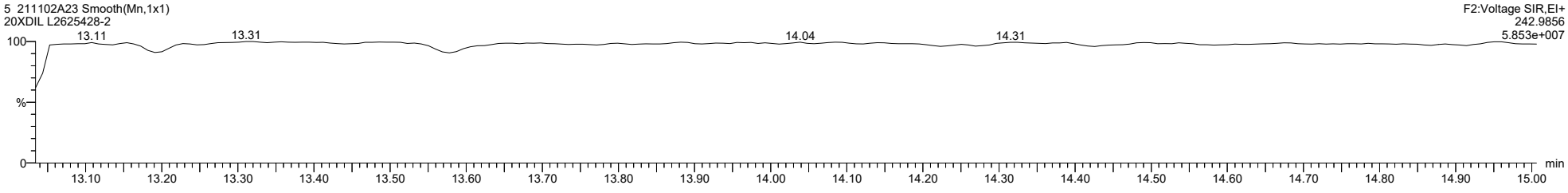

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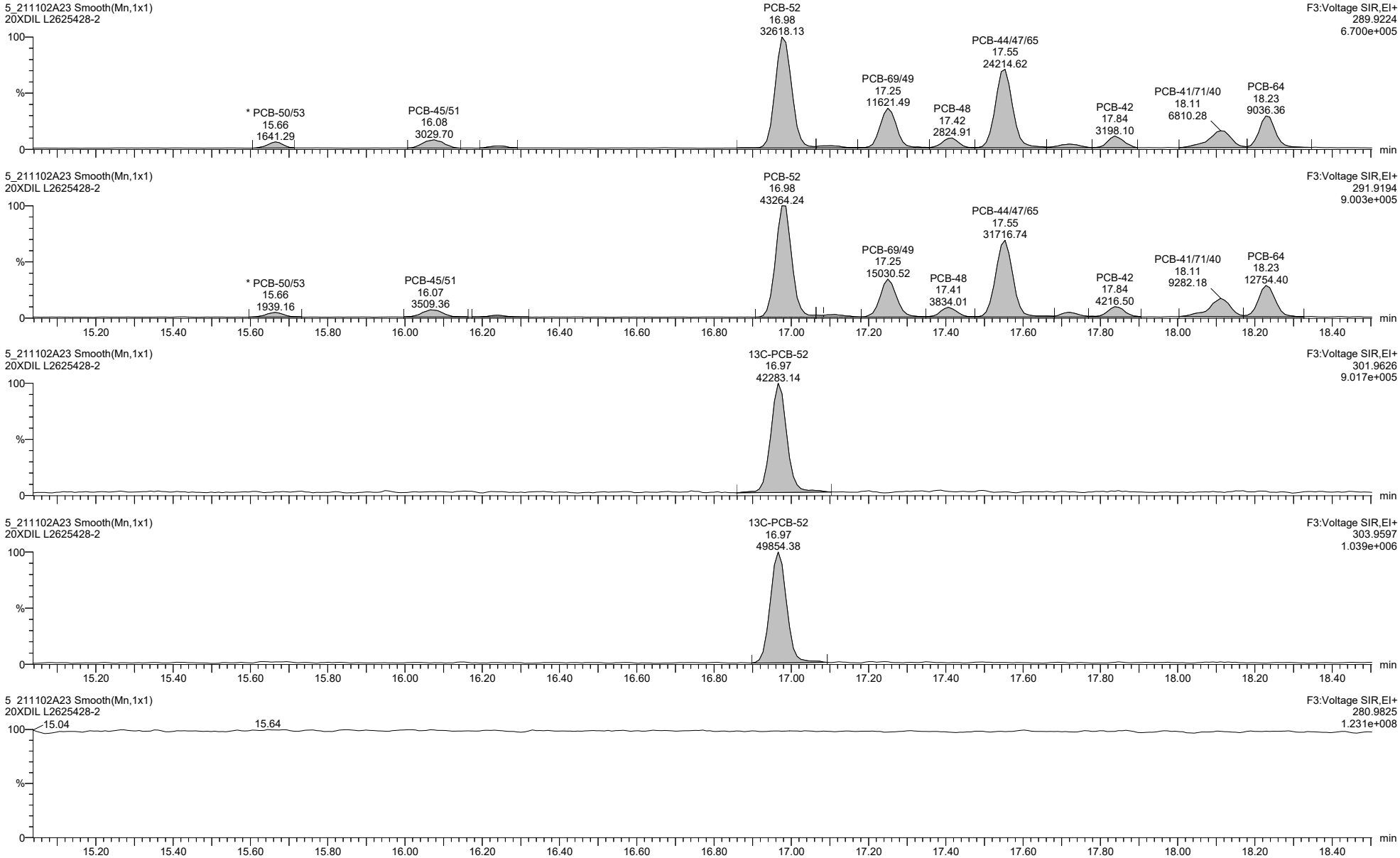

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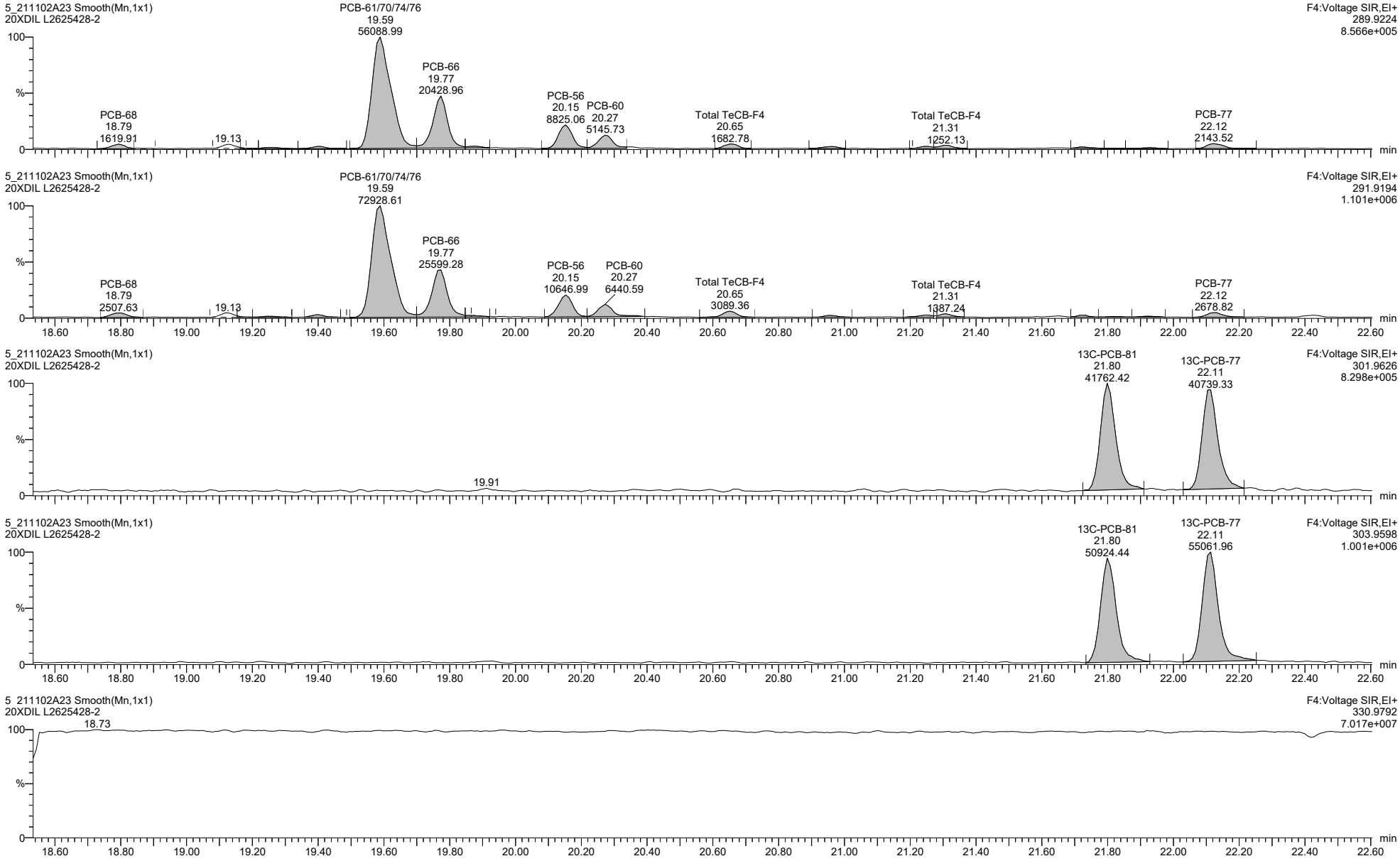

Quantify Sample Template Report **MassLynx V4.2 SCN1012**

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Last Altered: Monday, November 08, 2021 13:43:10 Eastern Standard Time
Printed: Monday, November 08, 2021 16:03:38 Eastern Standard Time

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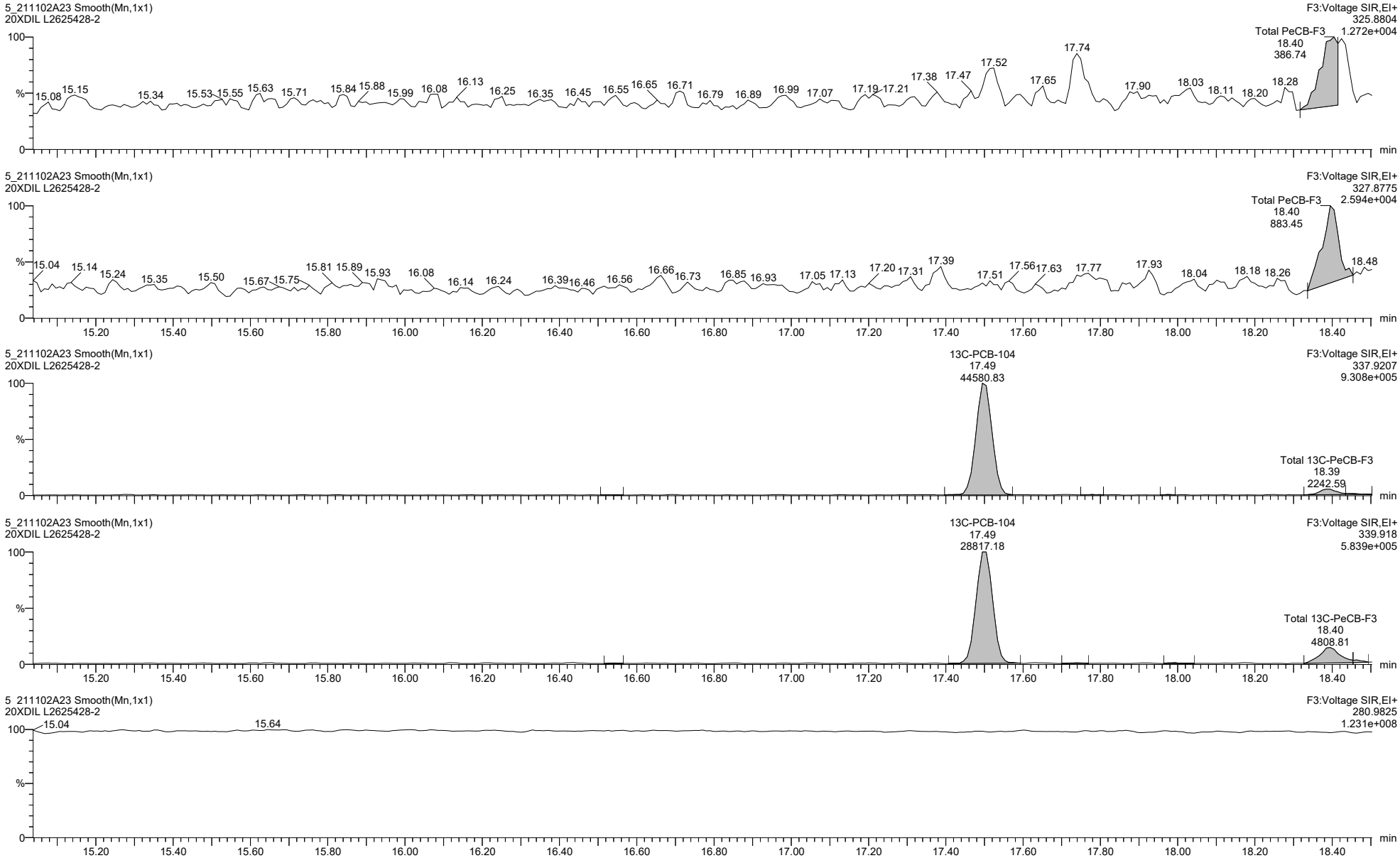

Quantify Sample Template Report **MassLynx V4.2 SCN1012**

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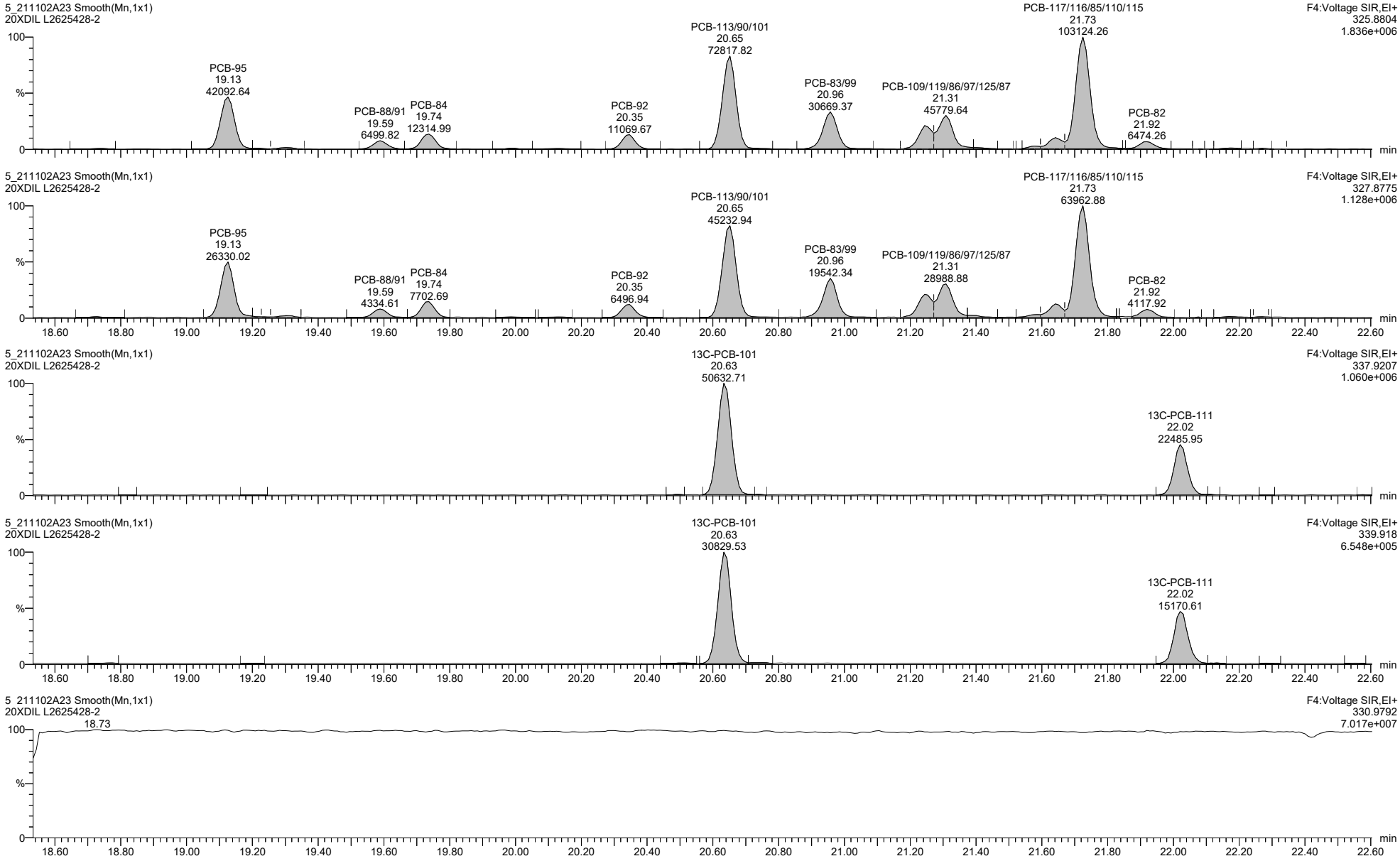

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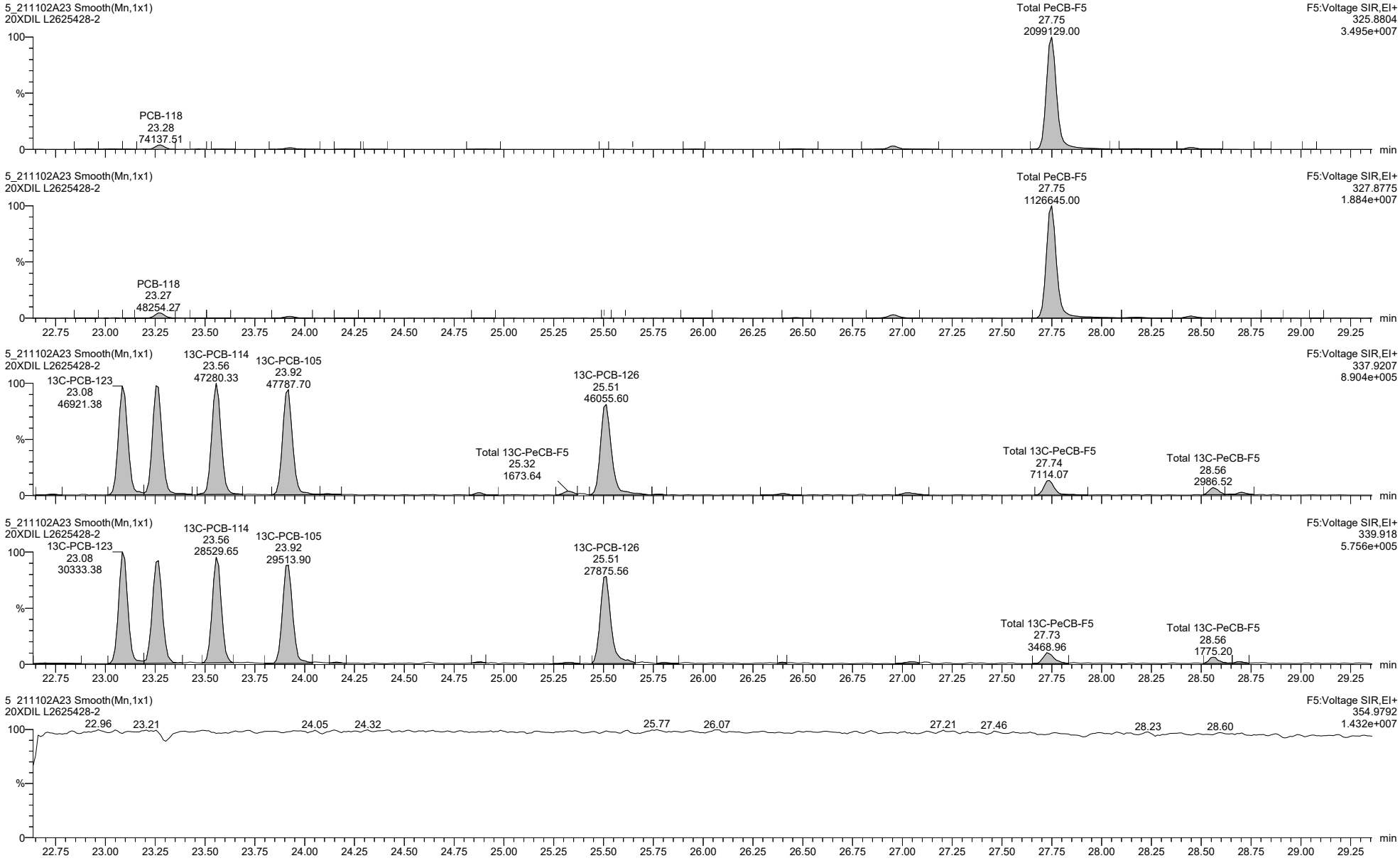

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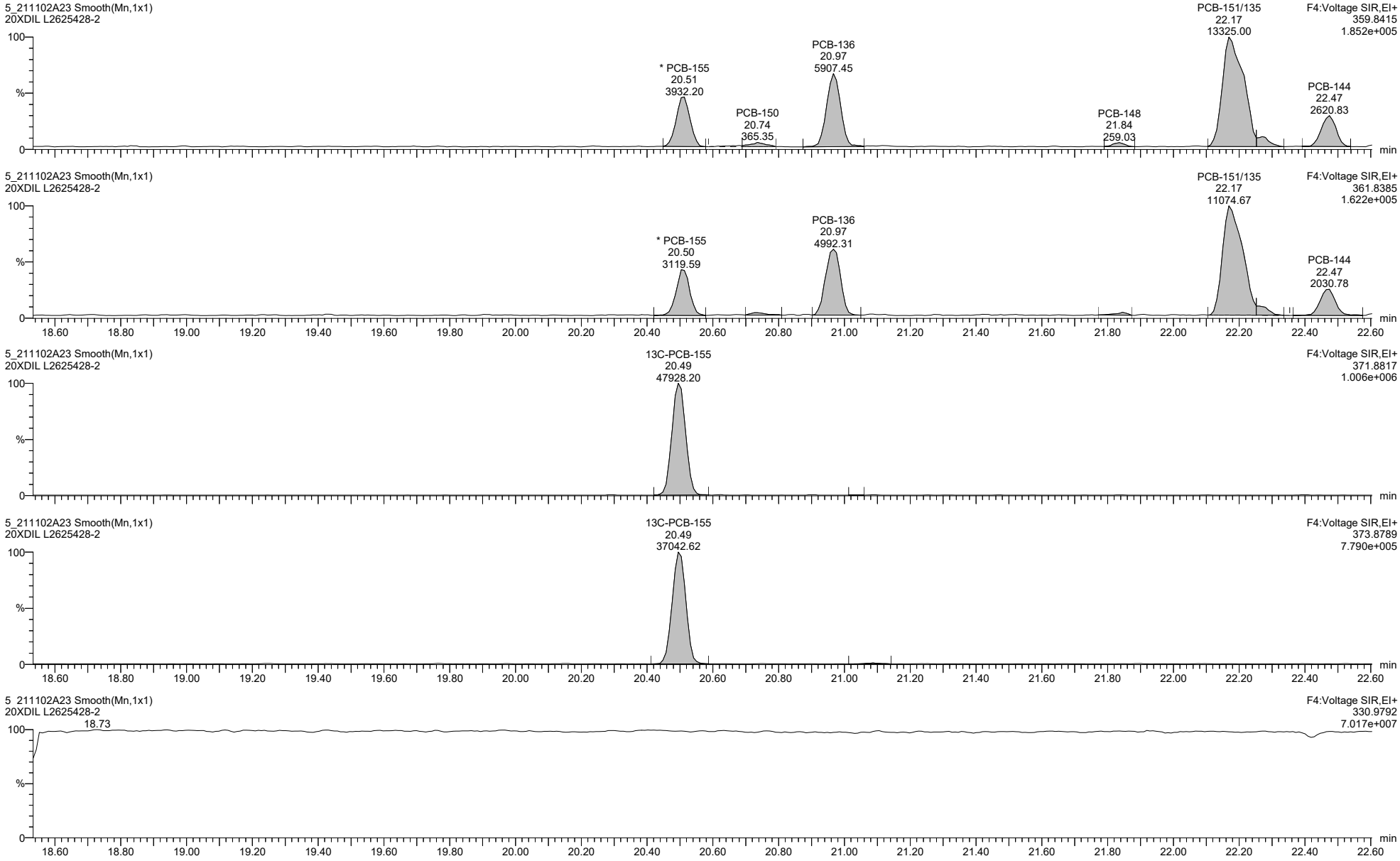

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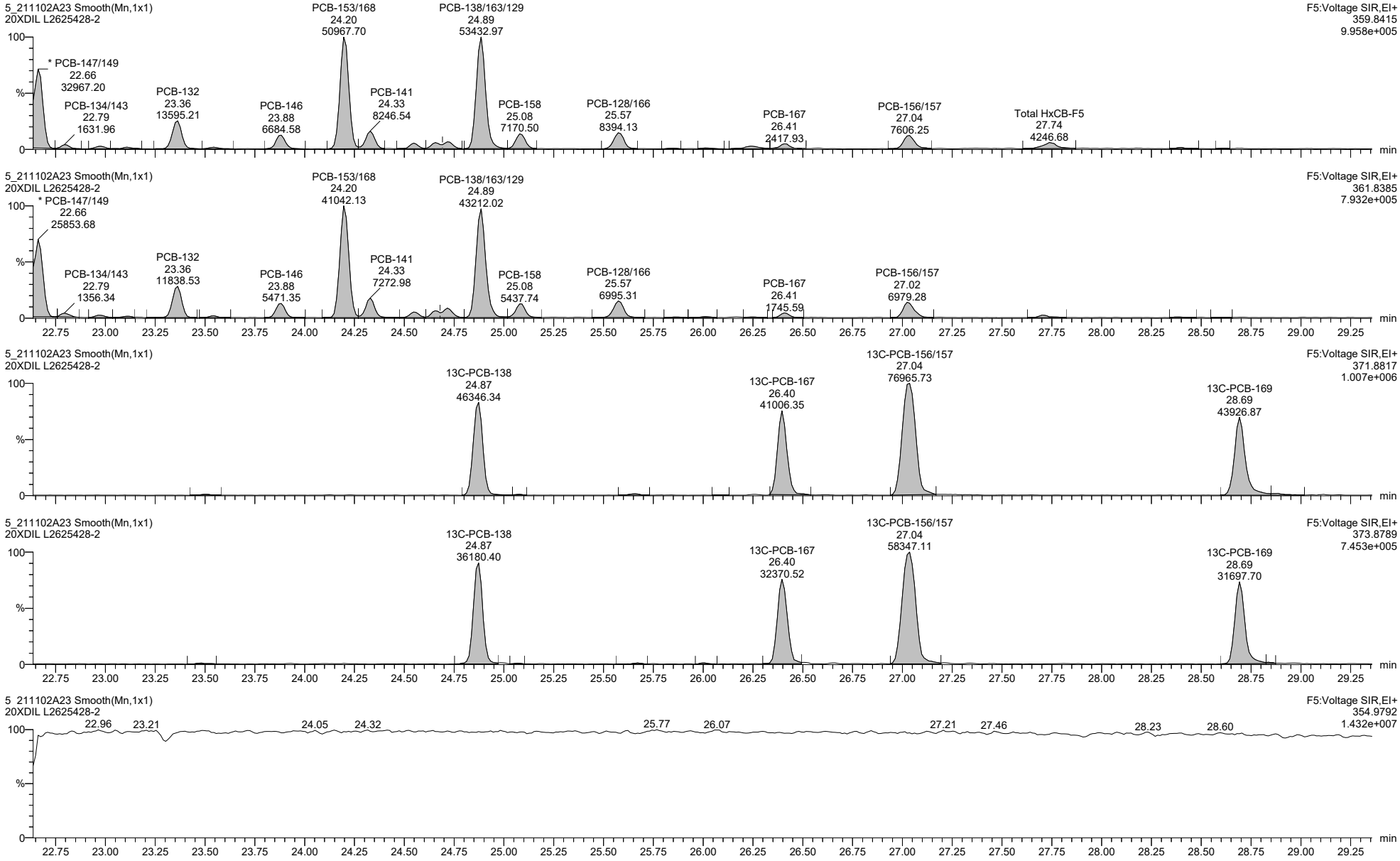

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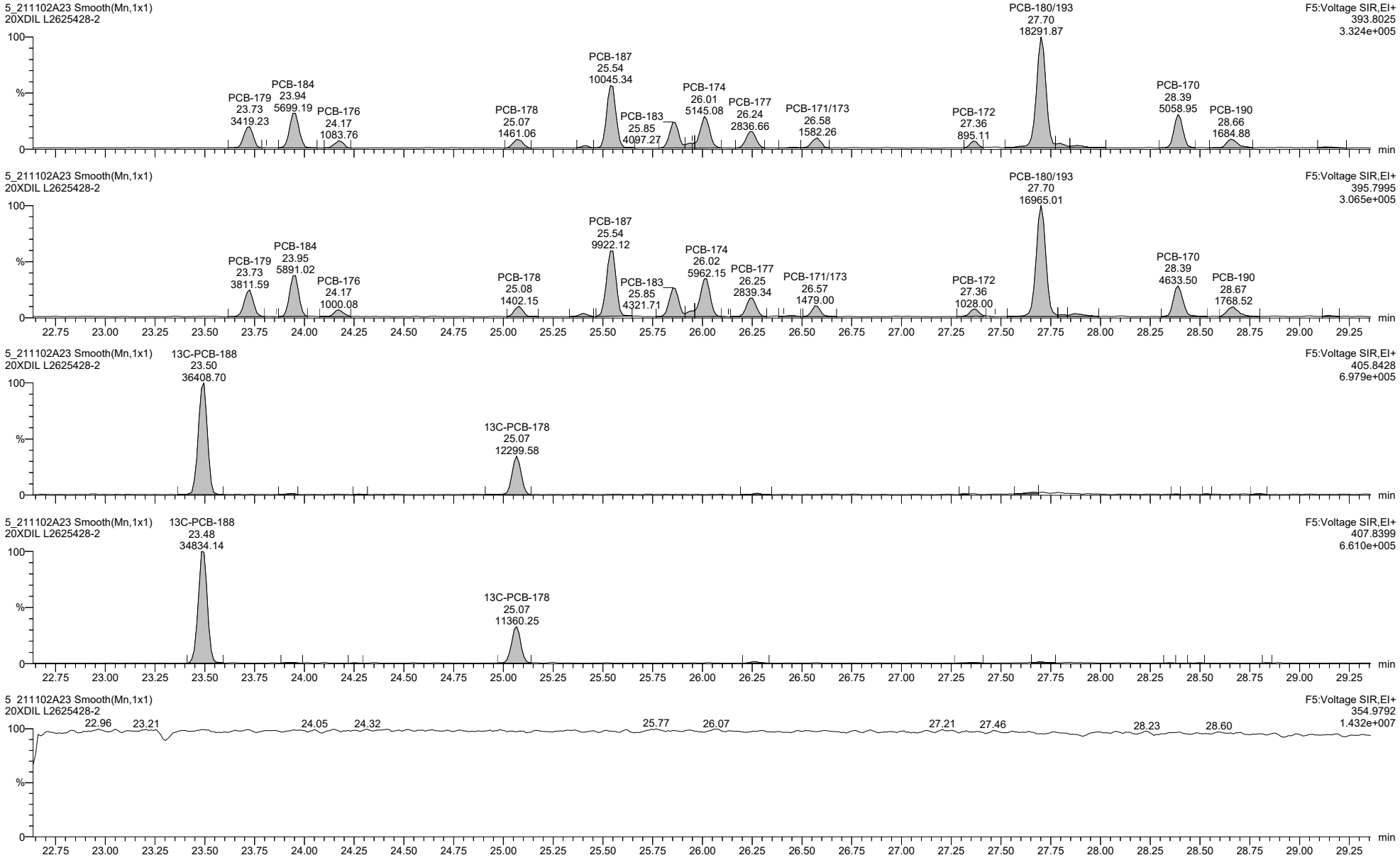

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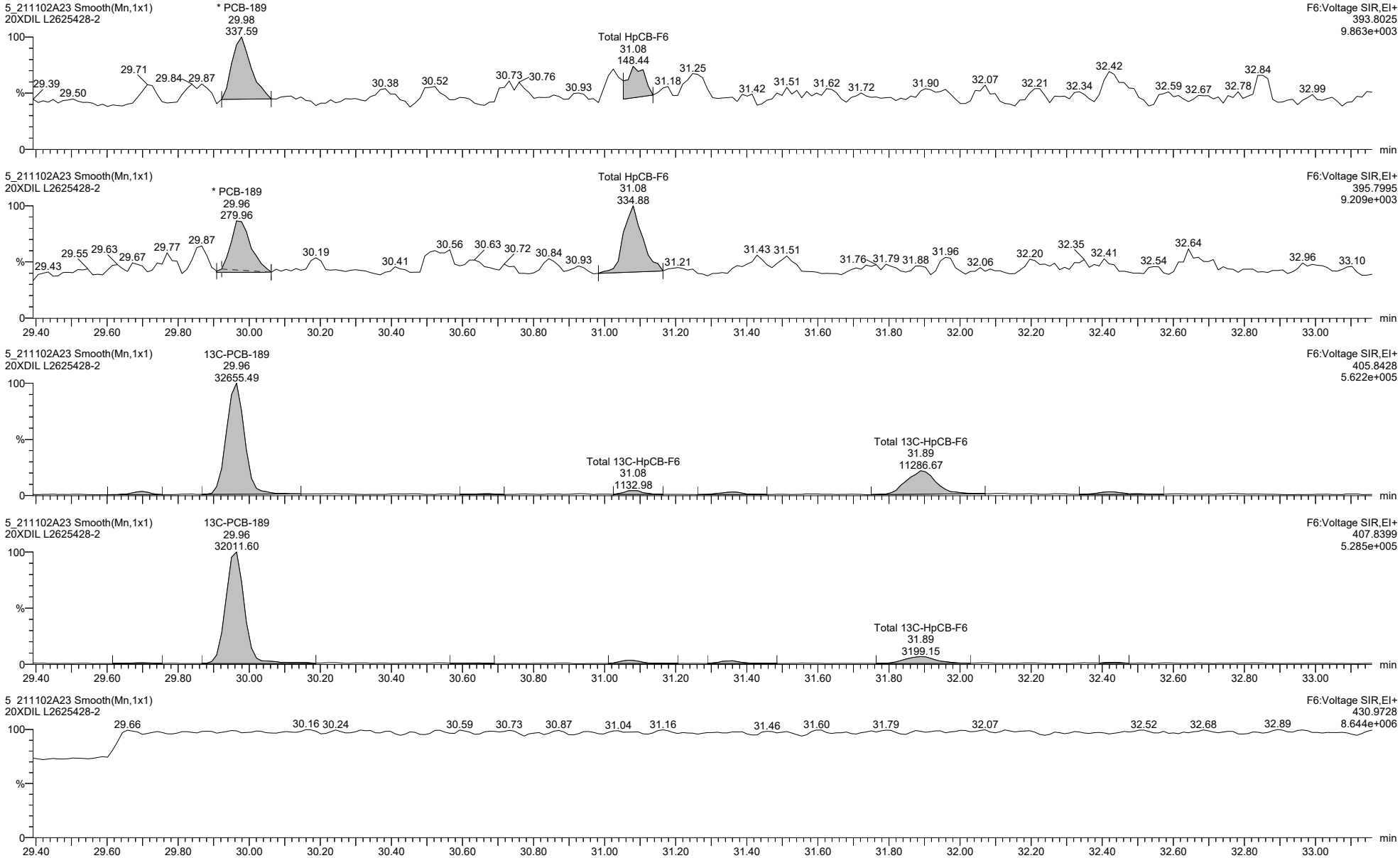

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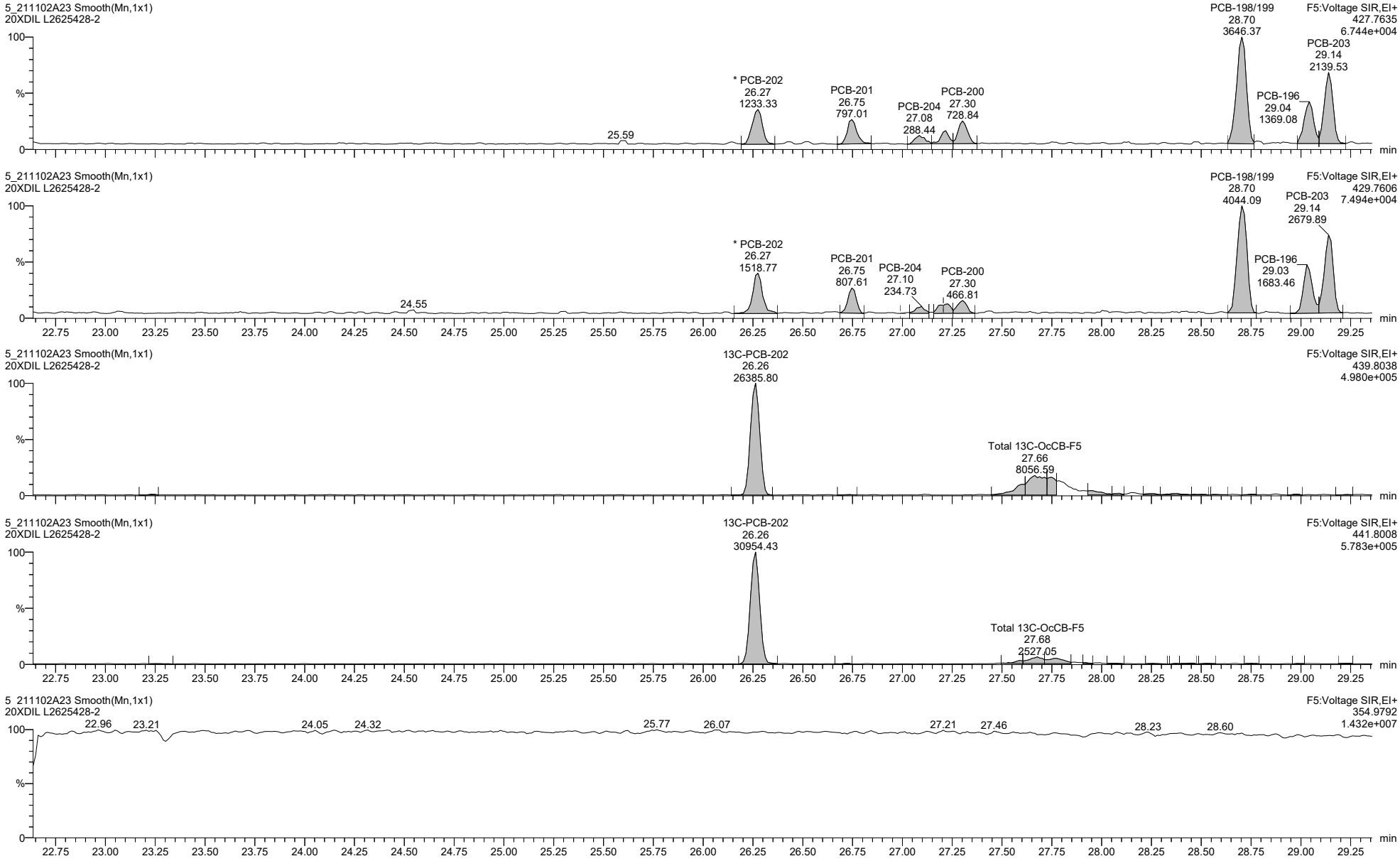

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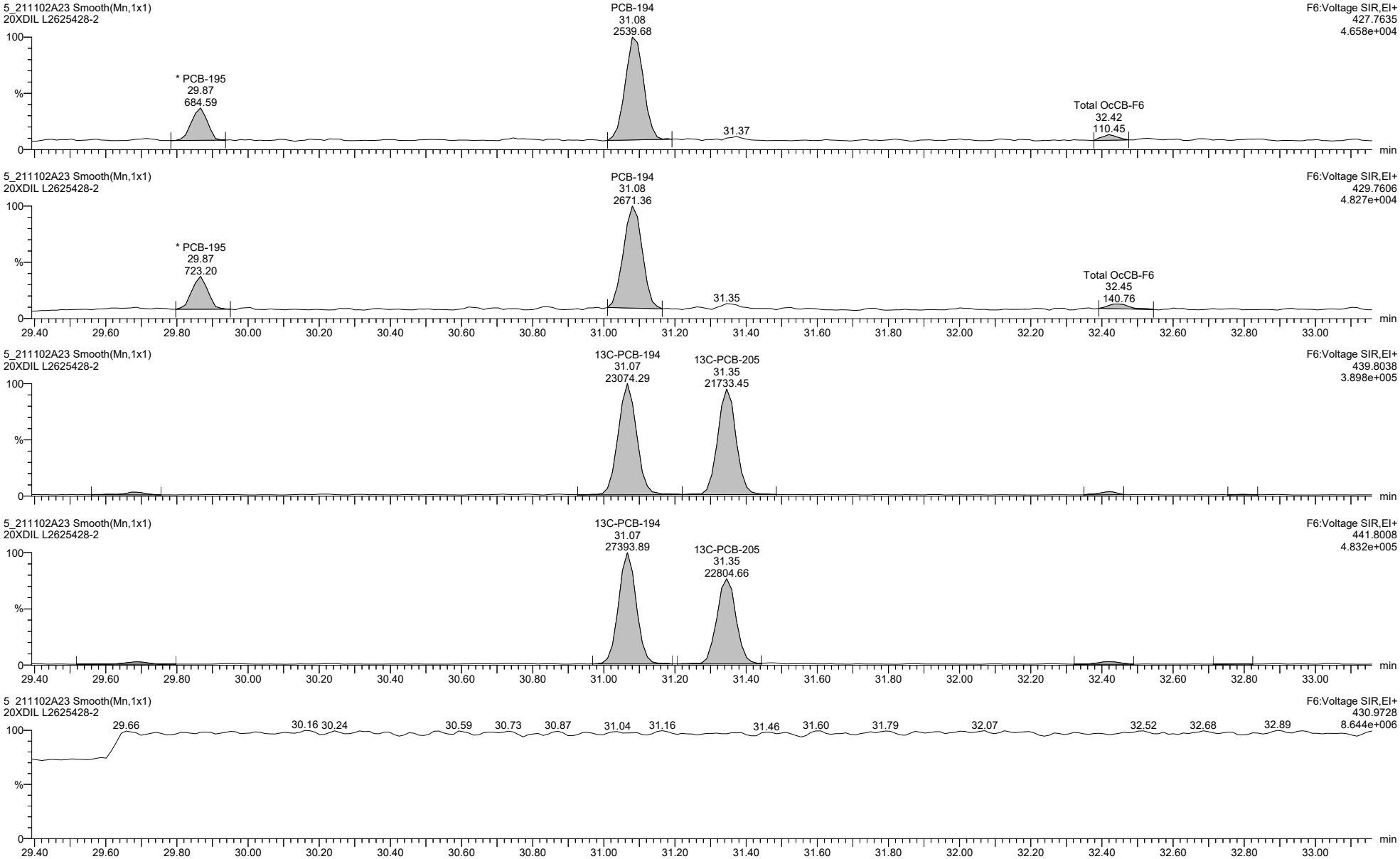

Quantify Sample Template Report **MassLynx V4.2 SCN1012**

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Last Altered: Monday, November 08, 2021 13:43:10 Eastern Standard Time
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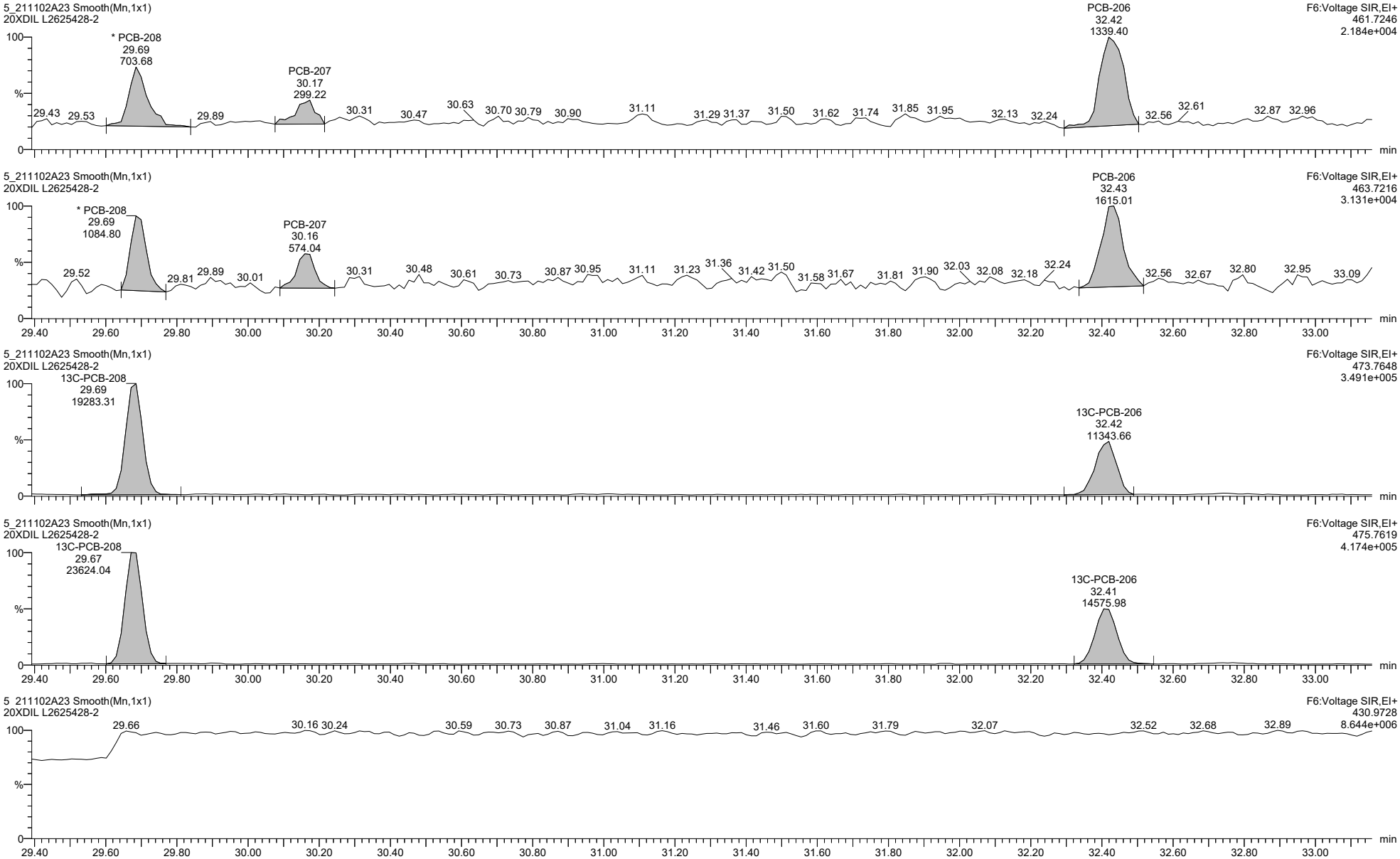

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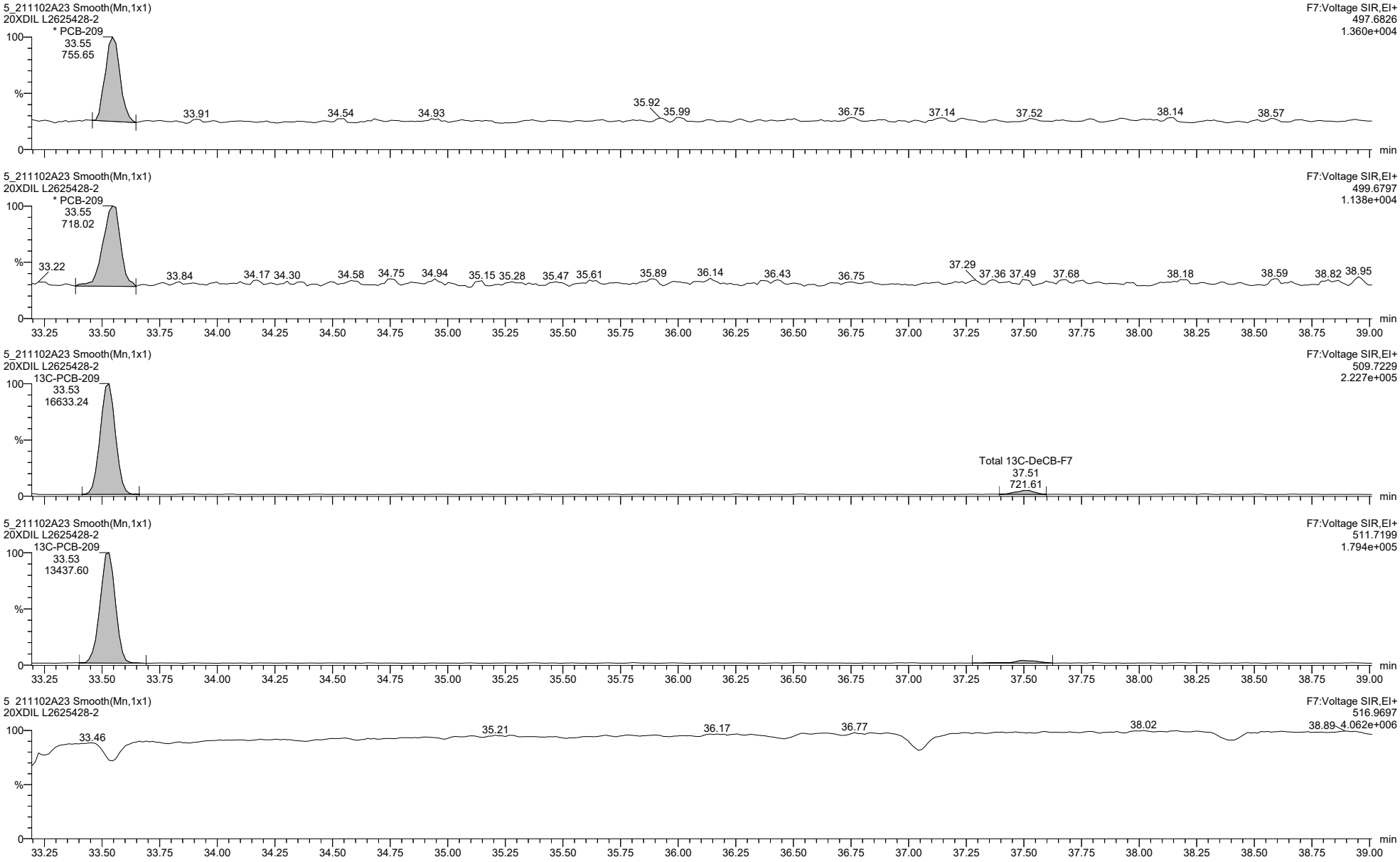

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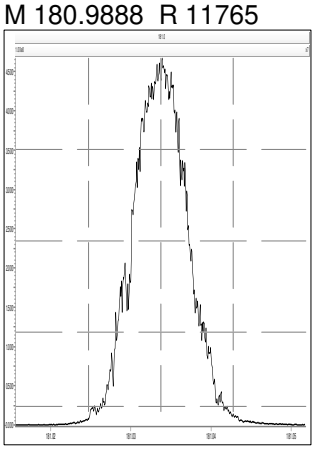

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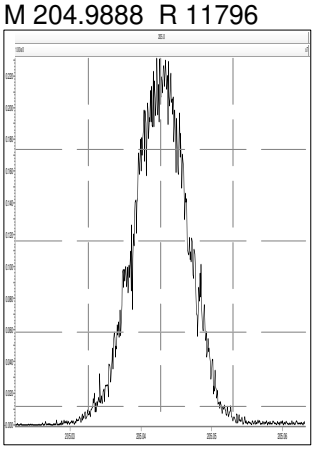

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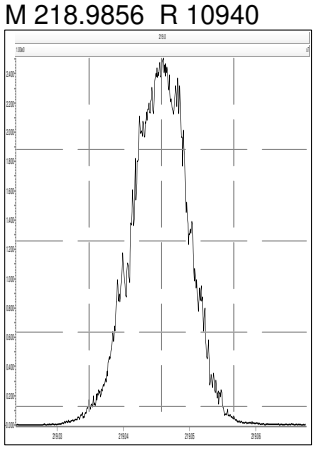

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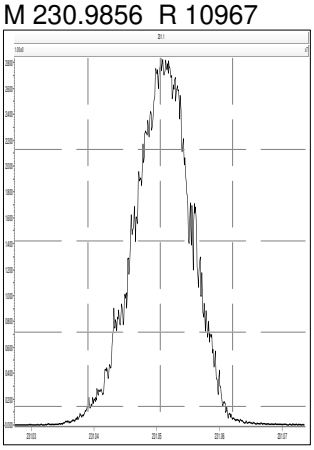

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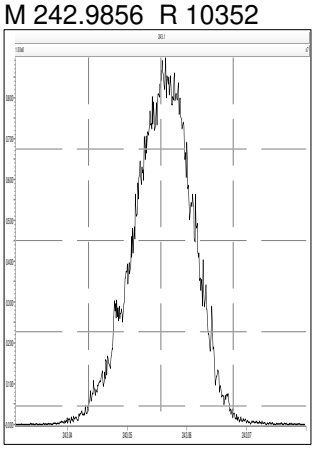

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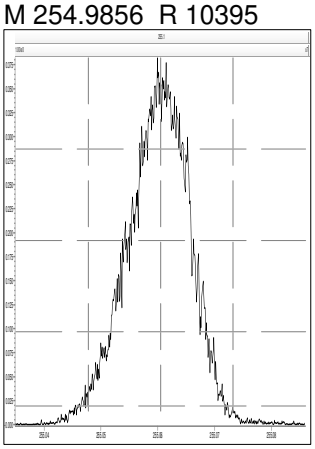

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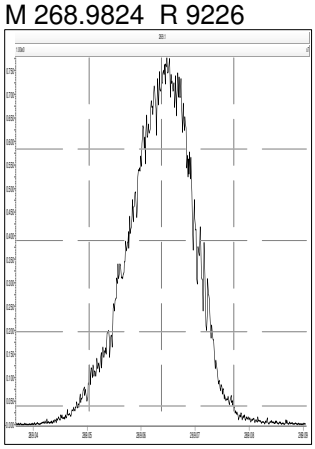

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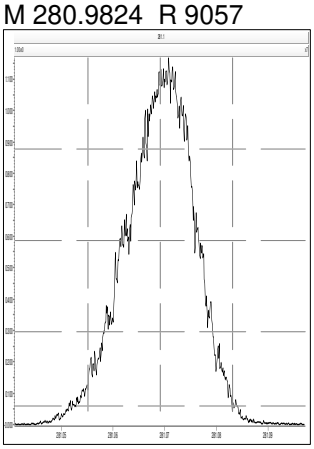

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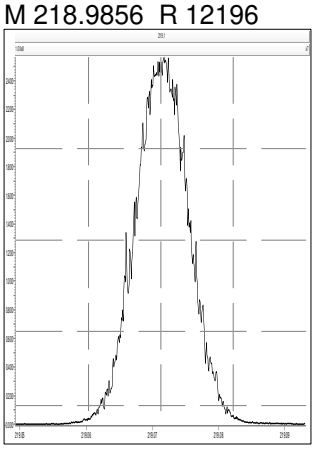

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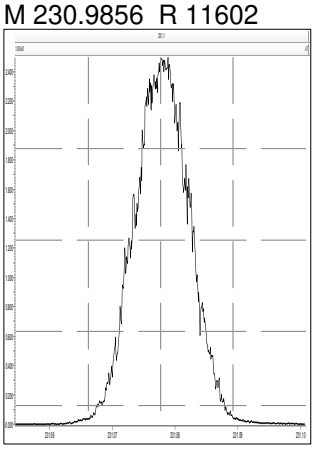

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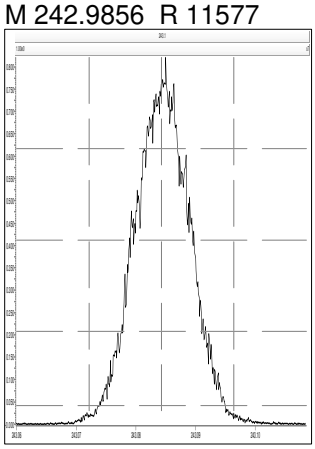

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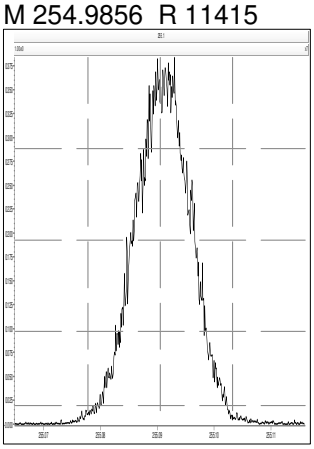
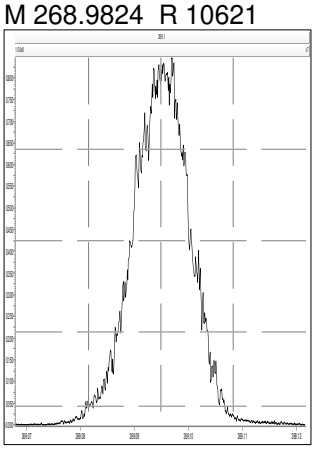


M 268.9824 R 10621



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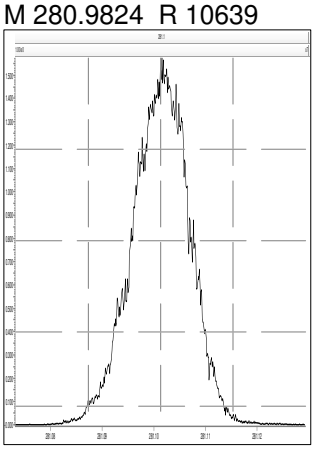

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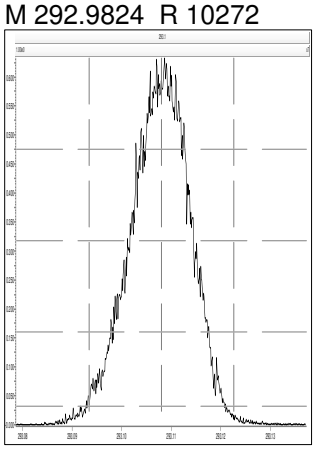

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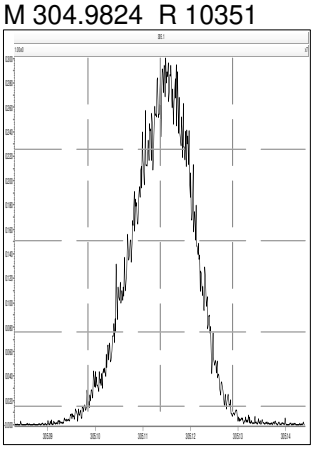

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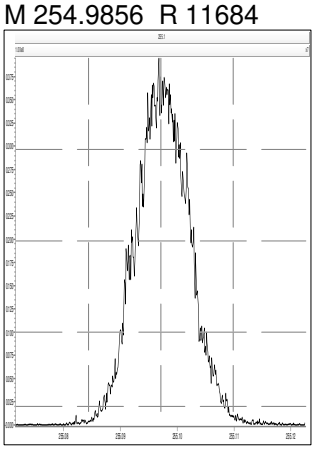

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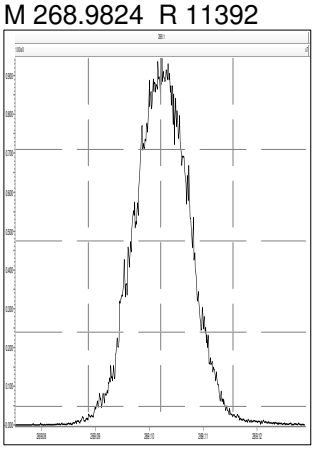

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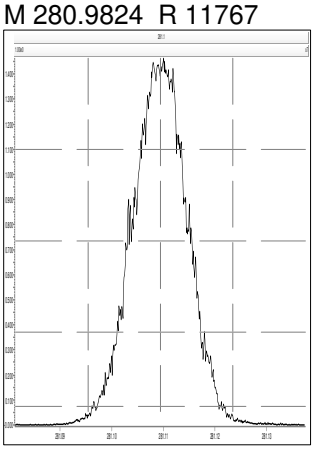

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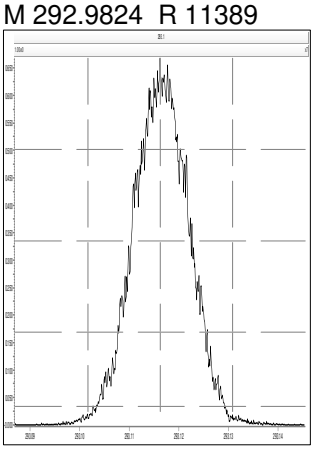

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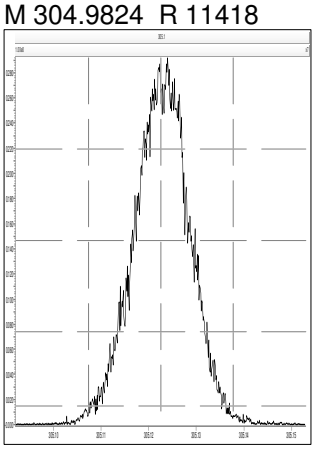

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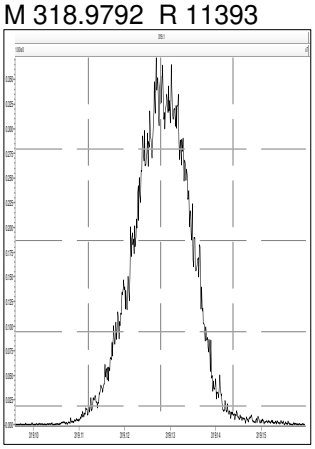

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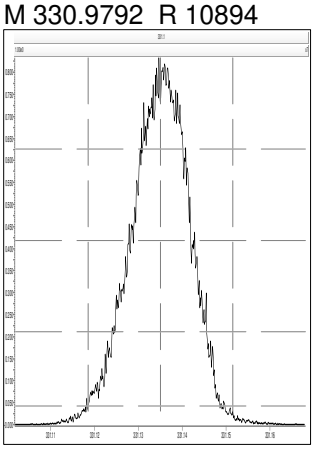

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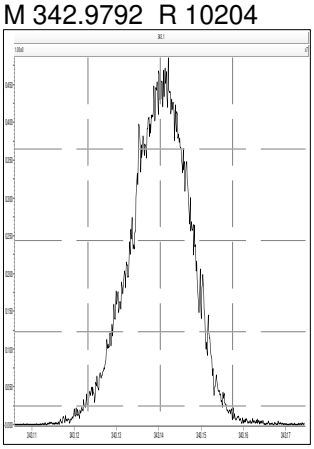

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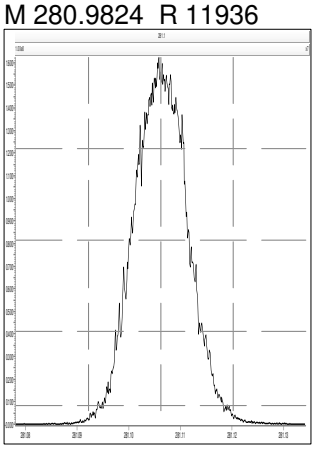

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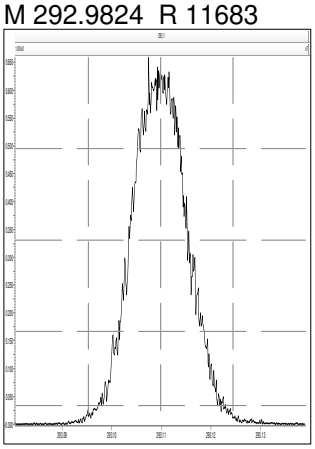

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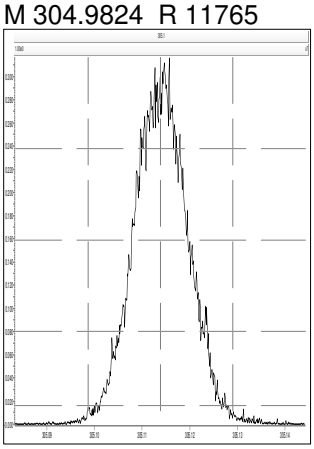

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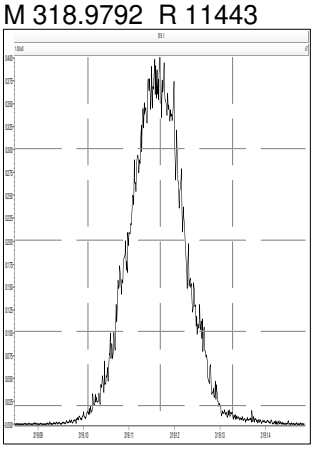
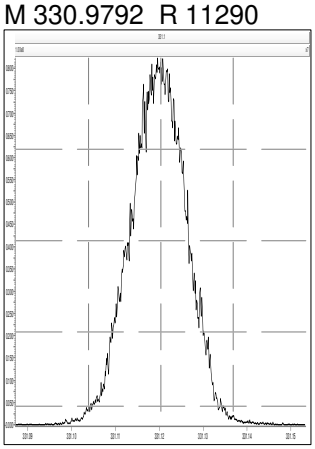
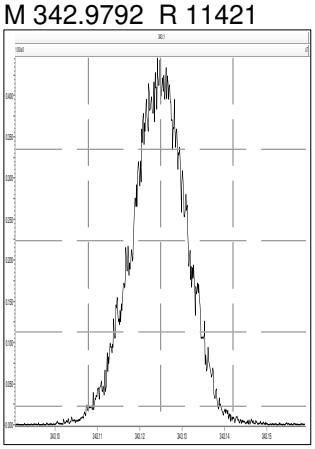


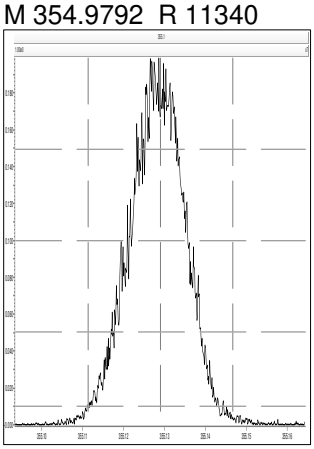
M 330.9792 R 11290



M 342.9792 R 11421



M 354.9792 R 11340



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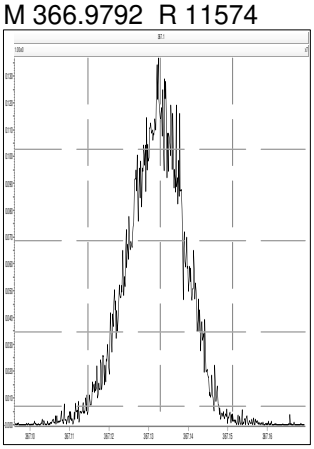

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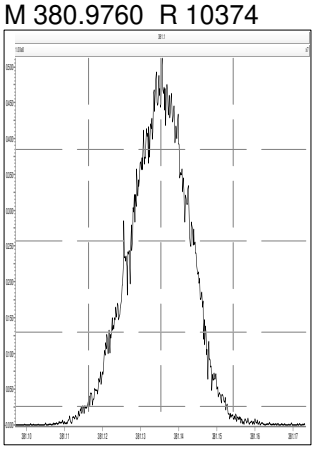

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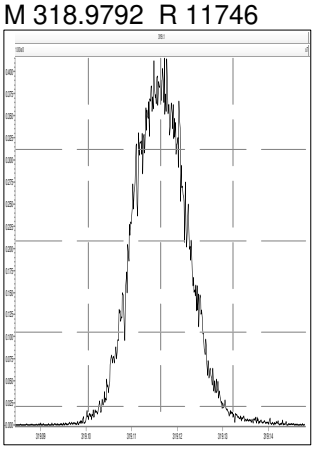

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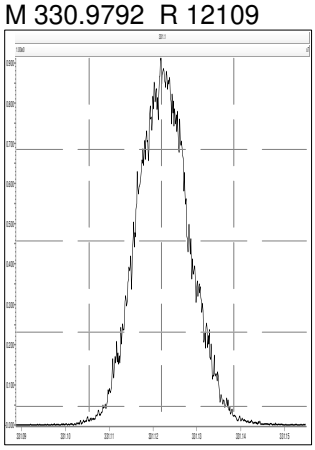

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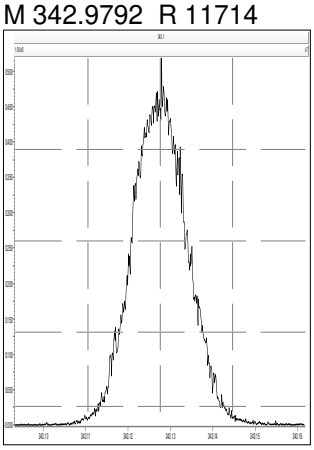
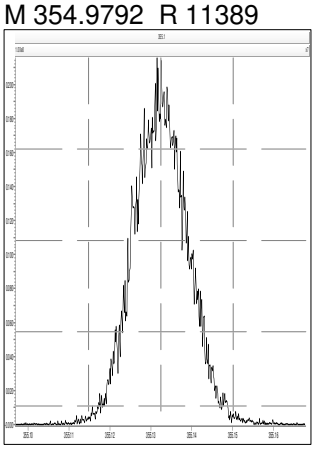
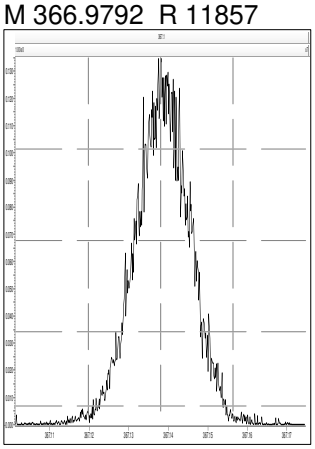


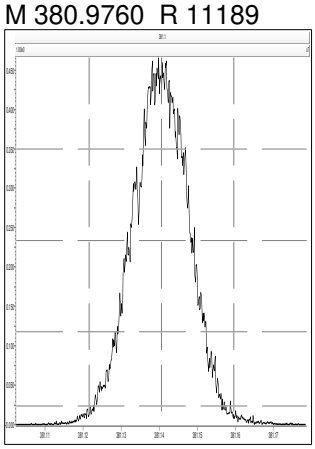
M 354.9792 R 11389



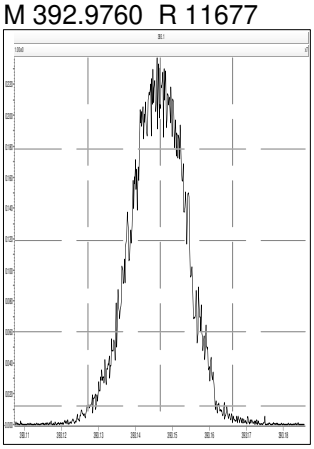
M 366.9792 R 11857



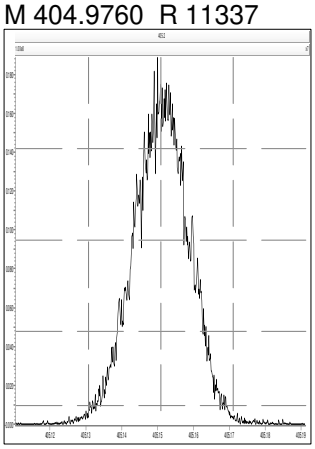
M 380.9760 R 11189



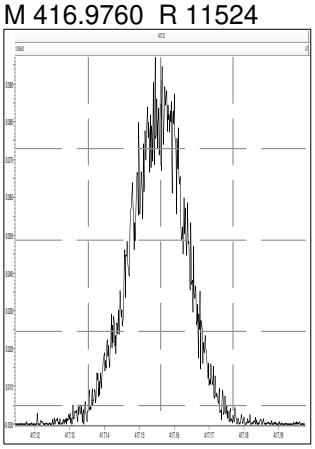
M 392.9760 R 11677



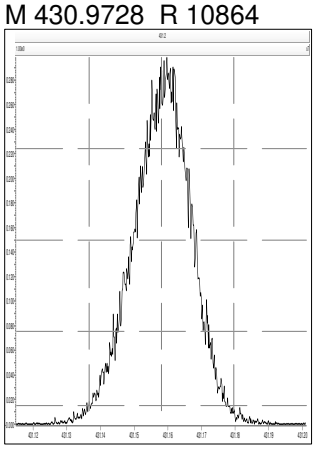
M 404.9760 R 11337



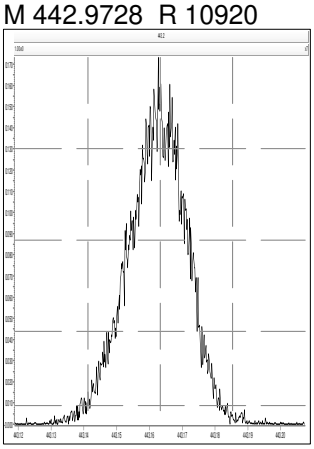
M 416.9760 R 11524



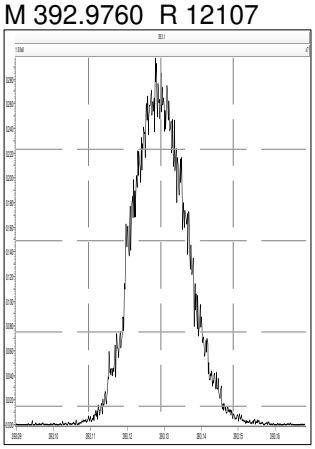
M 430.9728 R 10864



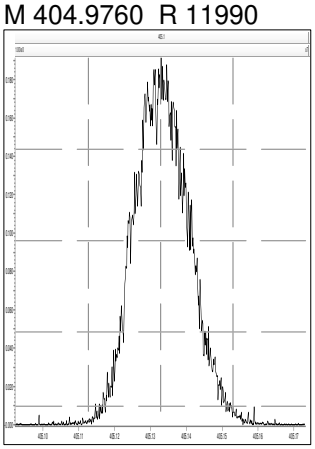
M 442.9728 R 10920



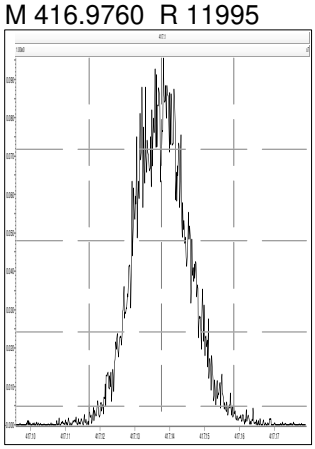
M 392.9760 R 12107



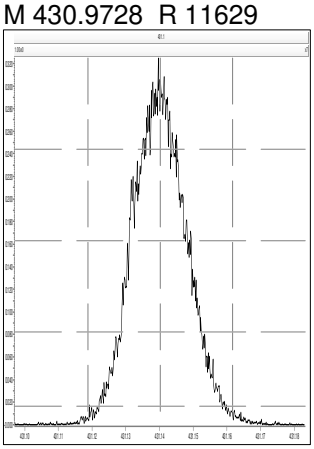
M 404.9760 R 11990



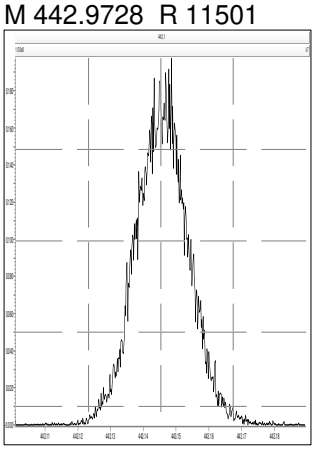
M 416.9760 R 11995



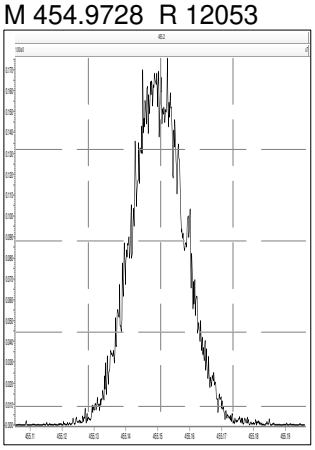
M 430.9728 R 11629



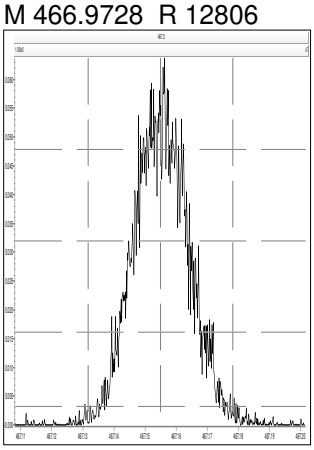
M 442.9728 R 11501



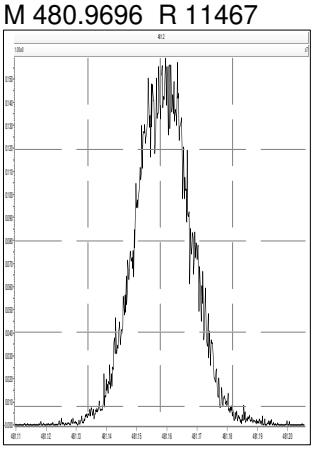
M 454.9728 R 12053



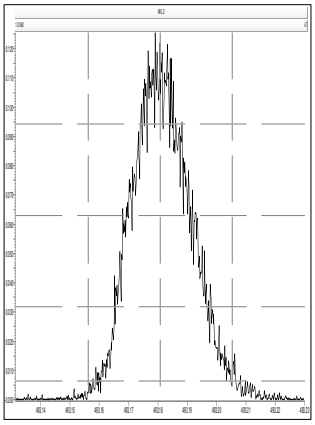
M 466.9728 R 12806



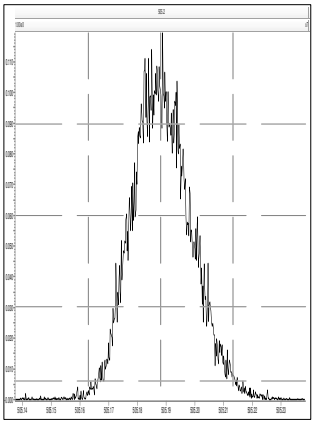
M 480.9696 R 11467



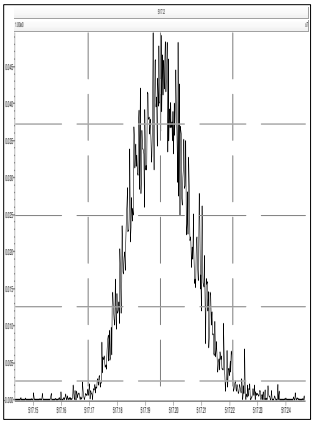
M 492.9696 R 11086



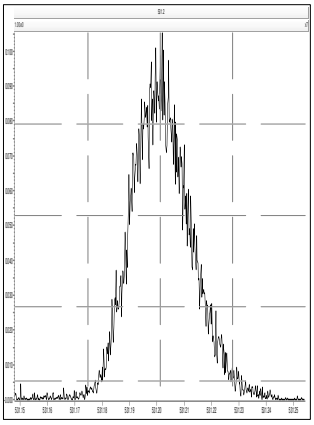
M 504.9696 R 10807



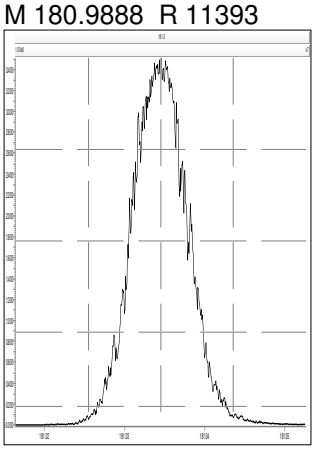
M 516.9697 R 11823



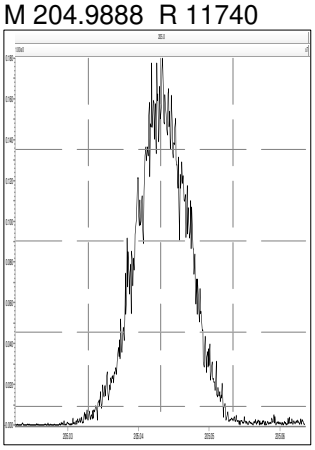
M 530.9664 R 10879



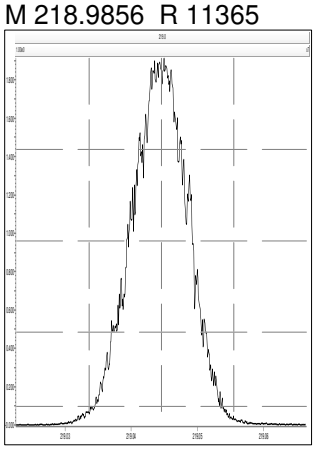
M 180.9888 R 11393



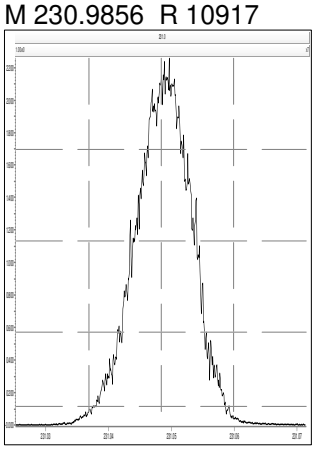
M 204.9888 R 11740



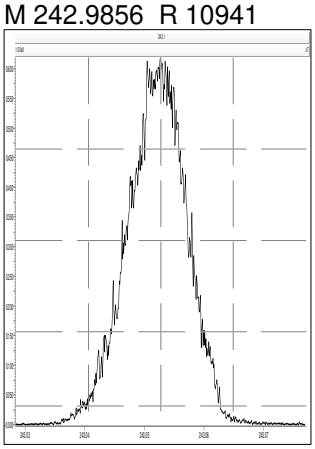
M 218.9856 R 11365



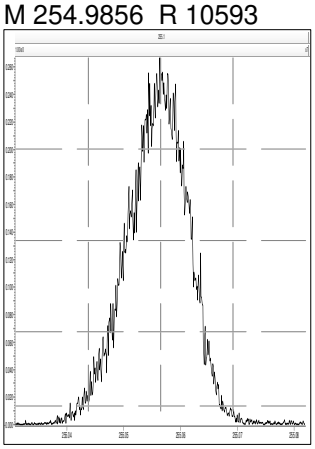
M 230.9856 R 10917



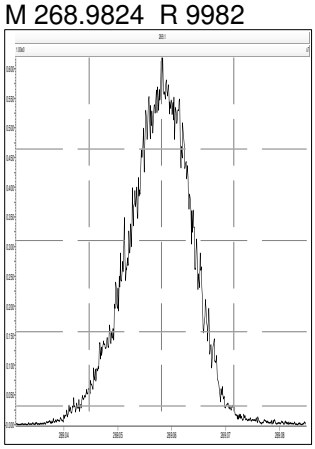
M 242.9856 R 10941



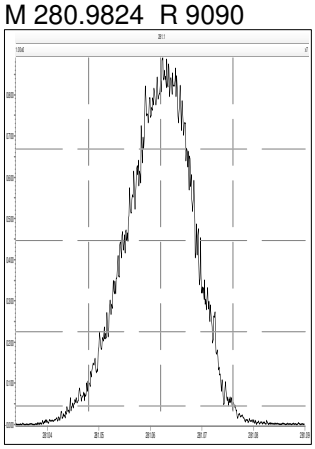
M 254.9856 R 10593



M 268.9824 R 9982



M 280.9824 R 9090



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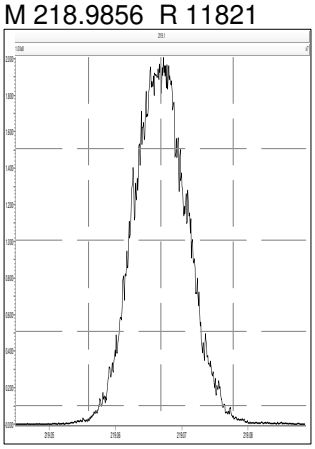
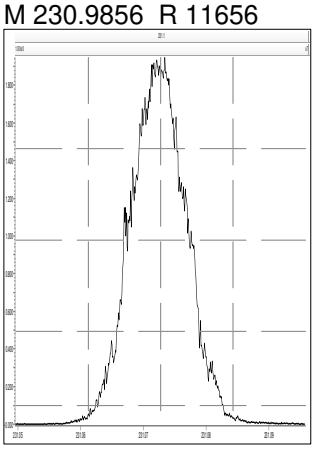
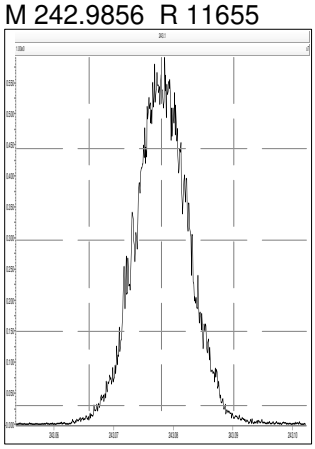


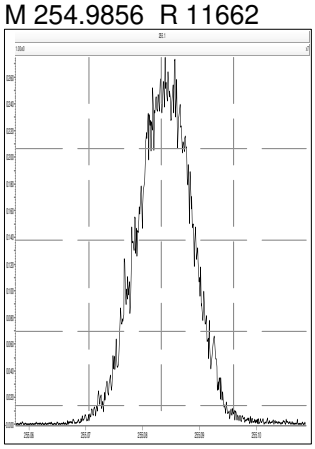
M 230.9856 R 11656



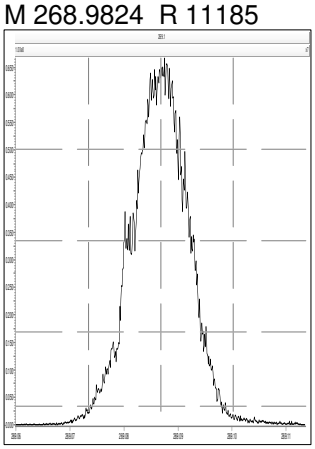
M 242.9856 R 11655



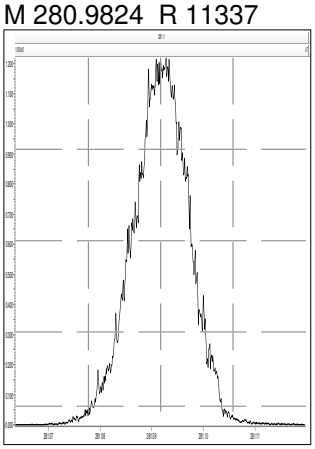
M 254.9856 R 11662



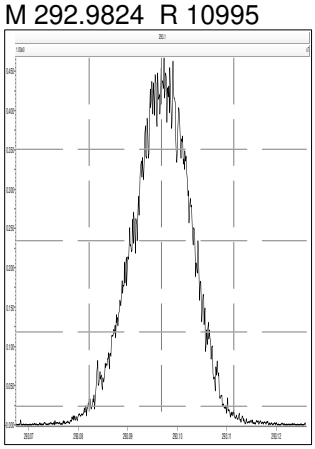
M 268.9824 R 11185



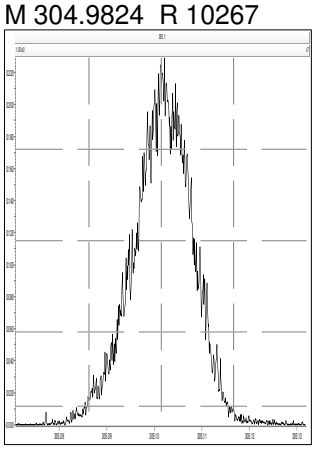
M 280.9824 R 11337



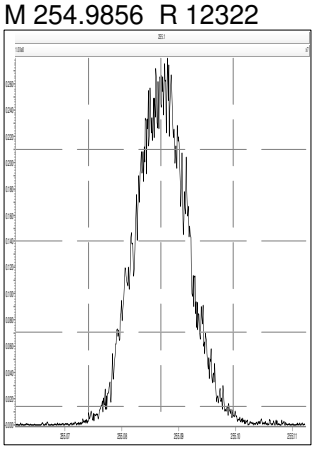
M 292.9824 R 10995



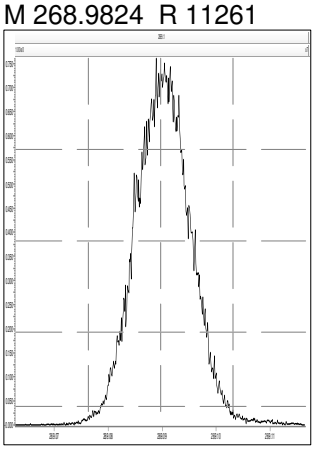
M 304.9824 R 10267



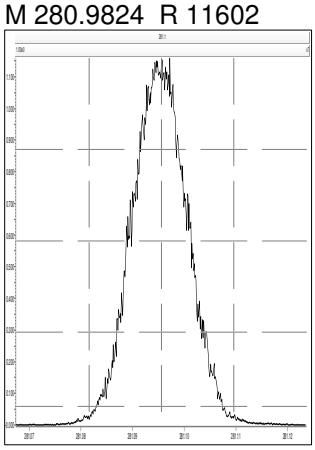
M 254.9856 R 12322



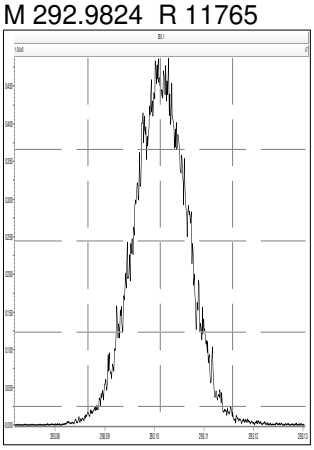
M 268.9824 R 11261



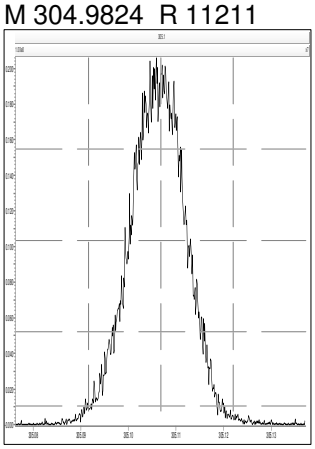
M 280.9824 R 11602



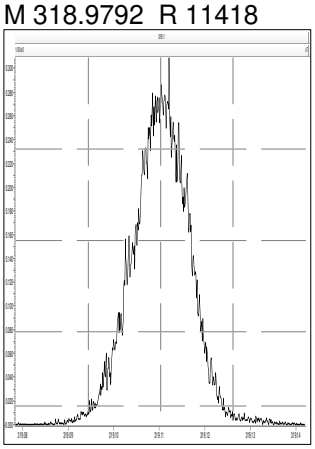
M 292.9824 R 11765



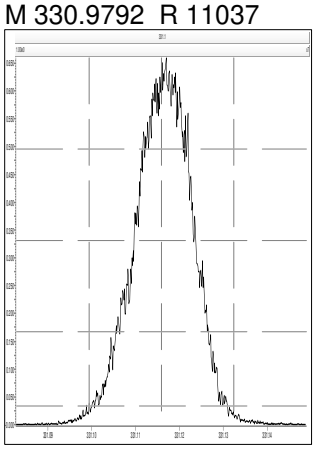
M 304.9824 R 11211



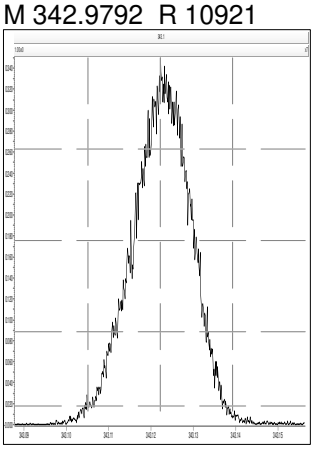
M 318.9792 R 11418



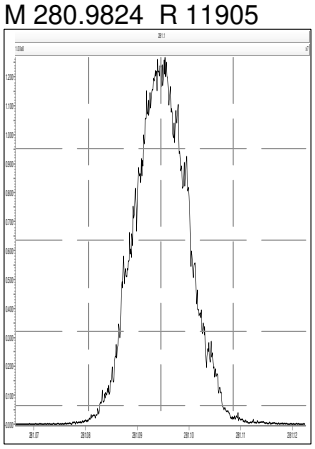
M 330.9792 R 11037



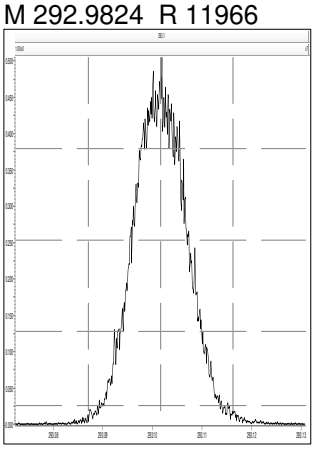
M 342.9792 R 10921



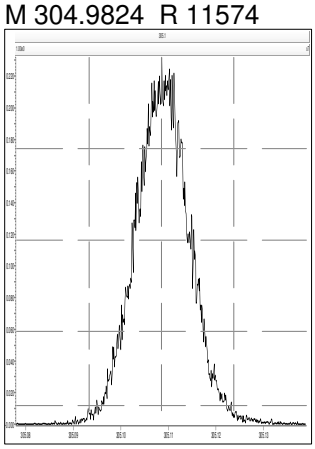
M 280.9824 R 11905



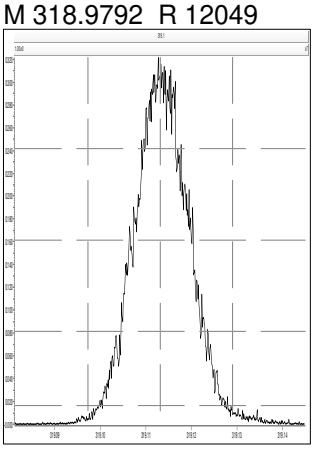
M 292.9824 R 11966



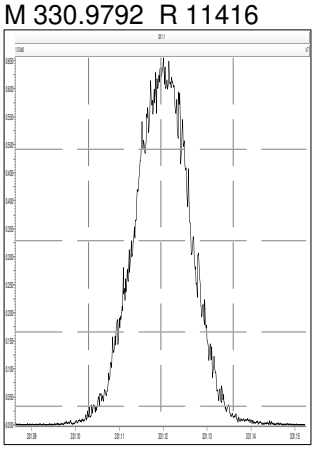
M 304.9824 R 11574



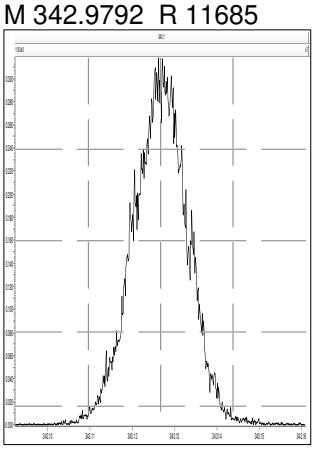
M 318.9792 R 12049



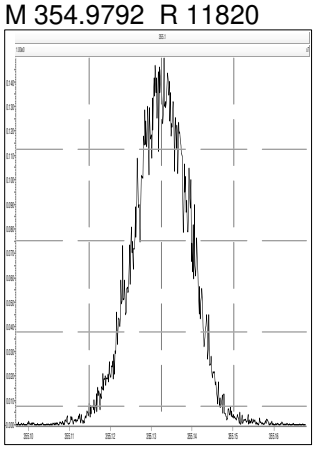
M 330.9792 R 11416



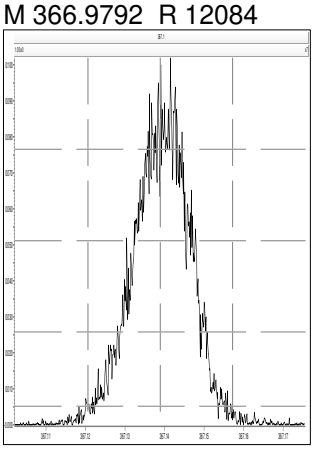
M 342.9792 R 11685



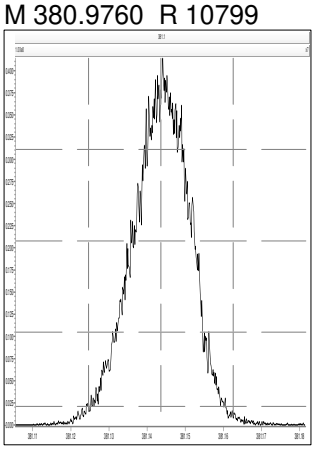
M 354.9792 R 11820



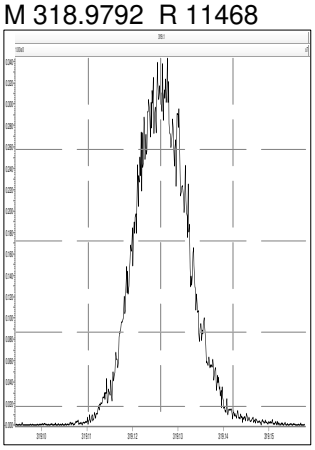
M 366.9792 R 12084



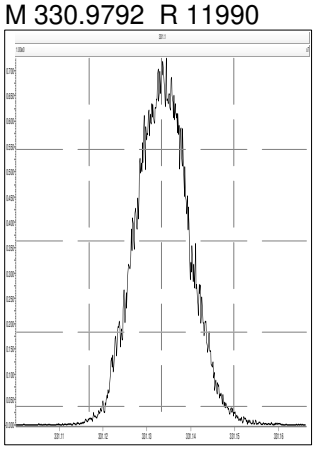
M 380.9760 R 10799



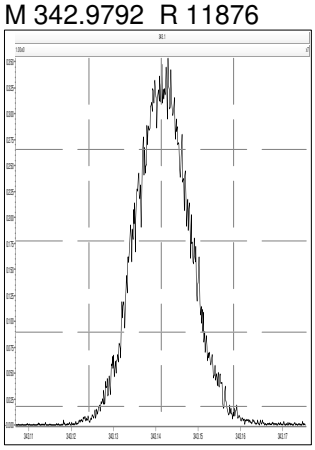
M 318.9792 R 11468



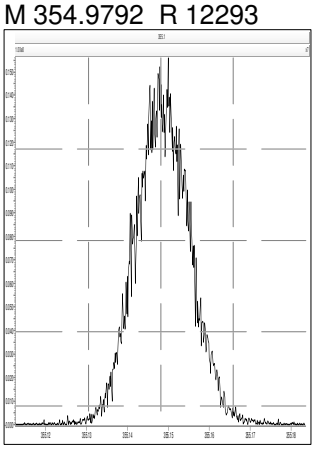
M 330.9792 R 11990



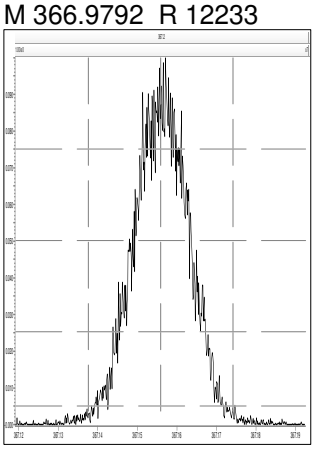
M 342.9792 R 11876



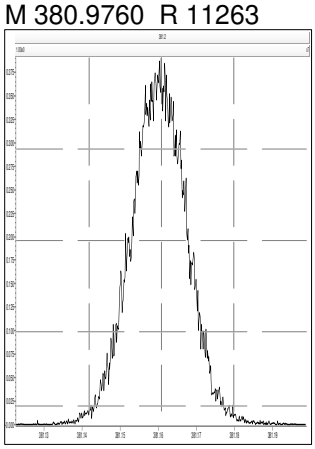
M 354.9792 R 12293



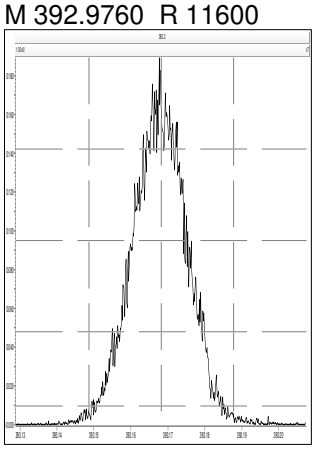
M 366.9792 R 12233



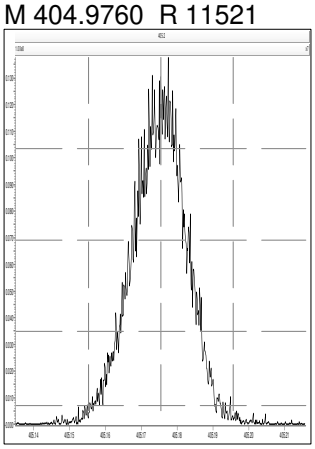
M 380.9760 R 11263



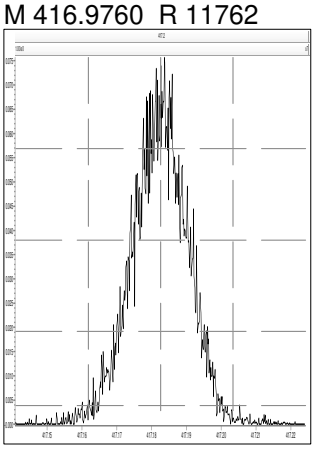
M 392.9760 R 11600



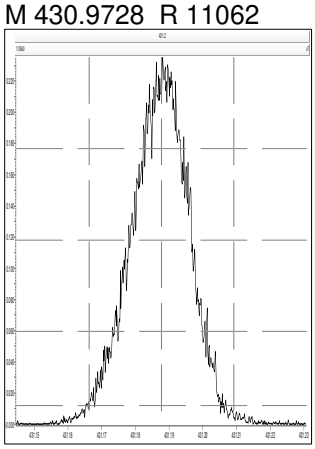
M 404.9760 R 11521



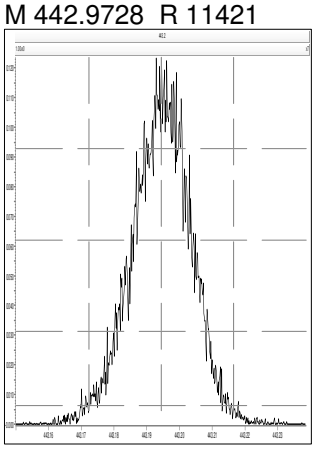
M 416.9760 R 11762



M 430.9728 R 11062



M 442.9728 R 11421



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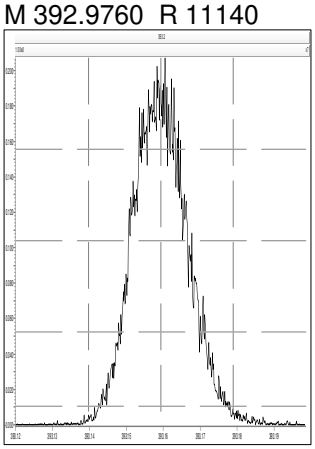
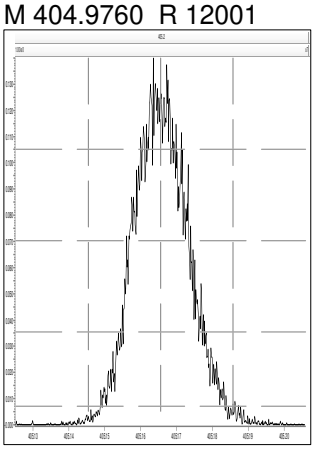
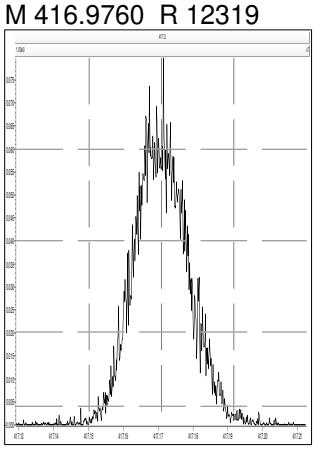


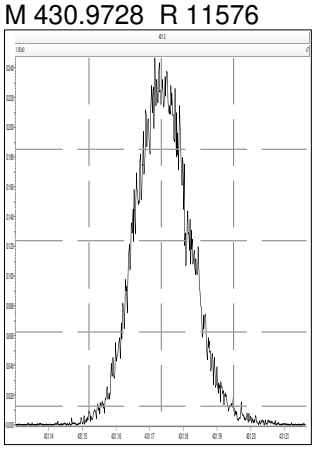
M 404.9760 R 12001



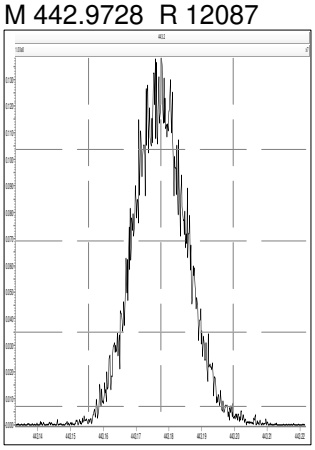
M 416.9760 R 12319



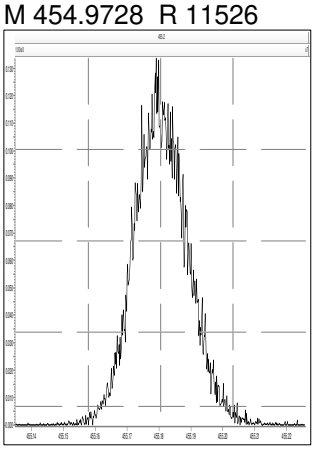
M 430.9728 R 11576



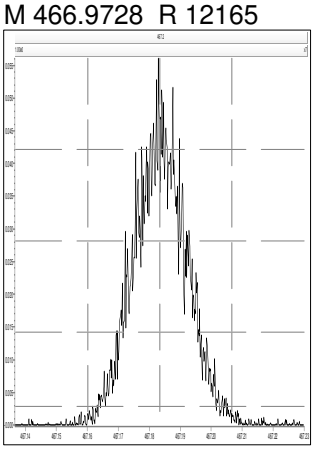
M 442.9728 R 12087



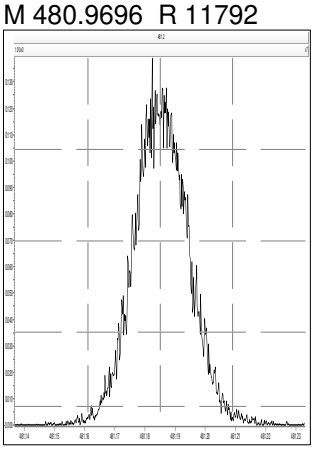
M 454.9728 R 11526



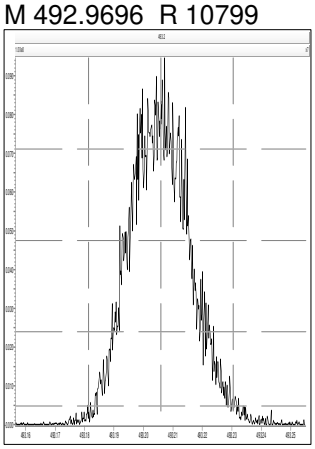
M 466.9728 R 12165



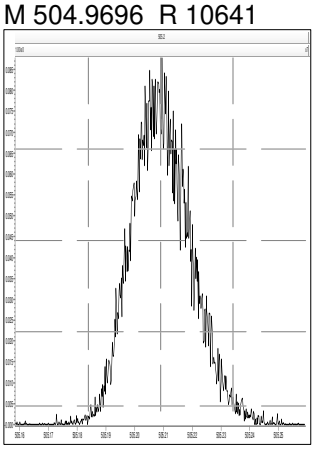
M 480.9696 R 11792



M 492.9696 R 10799



M 504.9696 R 10641



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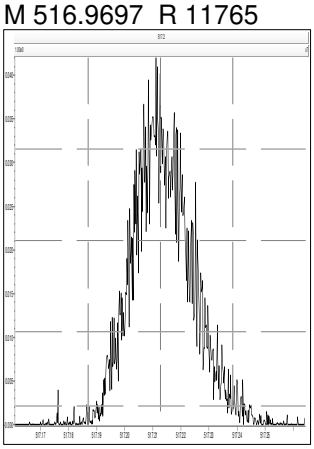
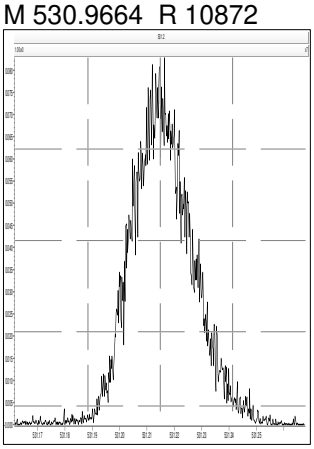


M 530.9664 R 10872



1435 Norjohn Court, Unit 1, Burlington, ON, Canada L7L 0E6

SVOC DATA PACKAGE

APPENDIX 1: INSTRUMENT OUTPUT DOCUMENTS

Including For Each Analytical Sequence::

- The scanned instrument runlogs

- Instrument output (SICP chromatograms) indicating the integrations used for quantification including:
  - GC chromatographic resolution checks, where appropriate
  - SICPs for the run
  - SICP chromatograms indicating both the automated and manual peak integrati where this has been edited

- Reference peak profiles indicating the mass resolution
  - Pre-run mass calibration check printouts
  - Post-run mass calibration check printouts

	File Name	Sample ID	File Text	MS File	Inlet File	Vial	Inject Volume
1	10-210913B01	H10-21-CCV-0122	PBDEX-CS#3-003	PBDEX_1614	PBDEX_1614	Tray1:1	1.500000
2	10-210913B02	H10-21-CCV-0123	PBDEX-CS#3-003	PBDEX_1614	PBDEX_1614	Tray1:1	1.500000
3	10-210913B03	H10-21-CCV-0123	PBDEX-CS#3-003	PBDEX_1614	PBDEX_1614	Tray1:1	1.500000
4	10-210913B04	H10-21-CS2-0123	PBDEX-CS#2-003	PBDEX_1614	PBDEX_1614	Tray1:3	1.500000
5	10-210913B05	H10-21-CS1-0123	PBDEX-CS#1-003	PBDEX_1614	PBDEX_1614	Tray1:2	1.500000
6	10-210913B06	H10-21-CS5-0123	PBDEX-CS#5-003	PBDEX_1614	PBDEX_1614	Tray1:5	1.500000
7	10-210913B07	H10-21-CS4-0123	PBDEX-CS#4-003	PBDEX_1614	PBDEX_1614	Tray1:4	1.500000
8	10-210913B08	H10-21-RS2-0123	PBDEX-RS#2-20	PBDEX_1614	PBDEX_1614	Tray1:5	1.500000
9	10-210913B09	WG3603564-2	LCS	PBDEX_1614	PBDEX_1614	Tray1:14	1.500000
10	10-210913B10	WG3603574-2	LCS	PBDEX_1614	PBDEX_1614	Tray1:15	1.500000
11	10-210913B11	WG3594968-2	LCS	PBDEX_1614	PBDEX_1614	Tray1:16	1.500000
12	10-210913B12	TOL1	IB	PBDEX_1614	PBDEX_1614	Tray1:7	1.500000
13	10-210913B13	TOL2	IB	PBDEX_1614	PBDEX_1614	Tray1:8	1.500000
14	10-210913B14	WG3603564-1	MBLANK	PBDEX_1614	PBDEX_1614	Tray1:17	1.500000
15	10-210913B15	WG3603574-1	MBLANK	PBDEX_1614	PBDEX_1614	Tray1:18	1.500000
16	10-210913B16	WG3594968-1	MBLANK	PBDEX_1614	PBDEX_1614	Tray1:19	1.500000
17	10-210913B17	L2625428-1	SAMPLE	PBDEX_1614	PBDEX_1614	Tray1:20	1.500000
18	10-210913B18	L2625428-2	SAMPLE R X	PBDEX_1614	PBDEX_1614	Tray1:21	1.500000
19	10-210913B19	H10-21-CCV-0123	PBDEX-CS#3-20	PBDEX_1614	PBDEX_1614	Tray1:1	1.500000
20	10-210913B20	TOL1	IB	PBDEX_1614	PBDEX_1614	Tray1:7	1.500000
21	10-210913B21	TOL2	IB	PBDEX_1614	PBDEX_1614	Tray1:8	1.500000
22	10-210913B22	L2623177-1	SAMPLE RX5	PBDEX_1614	PBDEX_1614	Tray1:22	1.500000
23	10-210913B23	L2623177-2	SAMPLE REWORK	PBDEX_1614	PBDEX_1614	Tray1:23	1.500000
24	10-210913B24	L2623177-3	SAMPLE RX5	PBDEX_1614	PBDEX_1614	Tray1:24	1.500000
25	10-210913B25	L2623177-4	SAMPLE REWORK	PBDEX_1614	PBDEX_1614	Tray1:25	1.500000
26	10-210913B26	L2625428-2 X5	DIL X5 RX 50	PBDEX_1614	PBDEX_1614	Tray1:21	1.500000
27	10-210913B27	L2623177-1 X5	DIL X5	PBDEX_1614	PBDEX_1614	Tray1:22	1.500000
28	10-210913B28	L2600174-3	SAMPLE	PBDEX_1614	PBDEX_1614	Tray1:26	1.500000
29	10-210913B29	WG3596493-2	LCS	PBDEX_1614	PBDEX_1614	Tray1:27	1.500000
30	10-210913B30	TOL1	IB	PBDEX_1614	PBDEX_1614	Tray1:7	1.500000
31	10-210913B31	WG3596493-1	MBLANK	PBDEX_1614	PBDEX_1614	Tray1:28	1.500000
32	10-210913B32	WG3555242-1	MBLANK	PBDEX_1614	PBDEX_1614	Tray1:29	1.500000
33	10-210913B33	H10-21-RS2-0123	PBDEX-RS#2-003	PBDEX_1614	PBDEX_1614	Tray1:6	1.500000
34	10-210913B34	H10-21-CCV-0124	PBDEX-CS#3-003	PBDEX_1614	PBDEX_1614	Tray1:1	1.500000
35	10-210913B35	H10-21-RS3-0123	PBDEX-RS#2-003	PBDEX_1614	PBDEX_1614	Tray1:10	1.500000
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37	---	Detector	370	---	---	---	0.000000
38	---	Op	EG	---	---	---	0.000000
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40	---	---	---	---	---	---	0.000000

VP ✓ H10-21-RS2-0123 WRONG POSITION, INJECTED 10-210913B33

MR ✓

ICAL ✓

CCV ✓

WG3603564-2
L2623177-4, -2] 13C12 BDE 209 0% REC

	File Name	Sample ID	File Text	Sample Type	Na Conc A	Na Conc B	Na Conc C	Na Conc D	Na Conc E	Na Conc F	Na Conc G	Na Conc H	ES Conc 1	ES Conc 2	ES Conc 3	ES Conc 4	CS Conc	IS Conc 1	IS Conc 2
1	10-210913B05	H10-21-CS1-0123	PBDEX-CS#1-003	Standard	1	1.5	2	2.5	3	4	5	10	50	100	250	500	50	50	250
2	10-210913B04	H10-21-CS2-0123	PBDEX-CS#2-003	Standard	4	6	8	10	12	16	20	40	50	100	250	500	50	50	250
3	10-210913B03	H10-21-CCV-0123	PBDEX-CS#3-003	Standard	20	30	40	50	60	80	100	200	50	100	250	500	50	50	250
4	10-210913B07	H10-21-CS4-0123	PBDEX-CS#4-003	Standard	80	120	160	200	240	320	400	800	50	100	250	500	50	50	250
5	10-210913B06	H10-21-CS5-0123	PBDEX-CS#5-003	Standard	240	360	480	600	720	960	1200	2400	50	100	250	500	50	50	250
6	10-210913B08	H10-21-RS2-0123	PBDEX-RS#-003	Analyte	---	---	---	---	---	---	---	---	50	100	250	500	50	50	250
7	10-210913B09	WG3603564-2	LCS	QC	800	1200	1600	2000	2400	3200	4000	8000	2000	4000	10000	20000	2000	2000	10000
8	10-210913B10	WG3603574-2	LCS	QC	800	1200	1600	2000	2400	3200	4000	8000	2000	4000	10000	20000	2000	2000	10000
9	10-210913B11	WG3594968-2	LCS	QC	400	600	800	1000	1200	1600	2000	4000	1000	2000	5000	10000	2000	2000	10000
10	10-210913B12	TOL1	IB	Analyte	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
11	10-210913B13	TOL2	IB	Analyte	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
12	10-210913B14	WG3603564-1	MBLANK	Analyte	---	---	---	---	---	---	---	---	2000	4000	10000	20000	2000	2000	10000
13	10-210913B15	WG3603574-1	MBLANK	Analyte	---	---	---	---	---	---	---	---	2000	4000	10000	20000	2000	2000	10000
14	10-210913B16	WG3594968-1	MBLANK	Analyte	---	---	---	---	---	---	---	---	1000	2000	5000	10000	2000	2000	10000
15	10-210913B17	L2625428-1	SAMPLE	Analyte	---	---	---	---	---	---	---	---	2000	4000	10000	20000	2000	2000	10000
16	10-210913B18	L2625428-2	SAMPLE	Analyte	---	---	---	---	---	---	---	---	2000	4000	10000	20000	2000	2000	10000
17	10-210913B19	H10-21-CCV-0123	PBDEX-CS#3-20	QC	20	30	40	50	60	80	100	200	50	100	250	500	50	50	250
18	10-210913B20	TOL1	IB	Analyte	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
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22	10-210913B24	L2623177-3	SAMPLE	Analyte	---	---	---	---	---	---	---	---	1000	2000	5000	10000	2000	2000	10000
23	10-210913B25	L2623177-4	SAMPLE	Analyte	---	---	---	---	---	---	---	---	1000	2000	5000	10000	2000	2000	10000
24	10-210913B26	L2625428-2 X5	DIL X5	Analyte	---	---	---	---	---	---	---	---	2000	4000	10000	20000	2000	2000	10000
25	10-210913B27	L2623177-1 X5	DIL X5	Analyte	---	---	---	---	---	---	---	---	1000	2000	5000	10000	2000	2000	10000
26	10-210913B28	L2600174-3	SAMPLE	Analyte	---	---	---	---	---	---	---	---	2000	4000	10000	20000	4000	2000	10000
27	10-210913B29	WG3596493-2	LCS	QC	800	1200	1600	2000	2400	3200	4000	8000	2000	4000	10000	20000	4000	2000	10000
28	10-210913B30	TOL1	IB	Analyte	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
29	10-210913B31	WG3596493-1	MBLANK	Analyte	---	---	---	---	---	---	---	---	2000	4000	10000	20000	4000	2000	10000
30	10-210913B32	WG3555242-1	MBLANK	Analyte	---	---	---	---	---	---	---	---	2000	4000	10000	20000	4000	2000	10000
31	10-210913B33	H10-21-RS2-0123	PBDEX-RS#2-003	QC	---	---	---	---	---	---	---	---	50	100	250	500	50	50	250
32	10-210913B34	H10-21-RS3-0123	PBDEX-RS#3-003	QC	20	30	40	50	60	80	100	200	50	100	250	500	50	50	250
33	10-210913B35	H10-21-CCV-0125	PBDEX-CS#3-20	QC	---	---	---	---	---	---	---	---	50	100	250	500	50	50	250

Sample Size

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Quantify Sample Summary Report **MassLynx MassLynx V4.1 SCN 901**

Dataset: I:\Organics Instrument\HIGHRES GCMS Completed Results Files\HR-10\2021\2109\10-210913B-ICAL-PBDE.qld

Last Altered: Tuesday, September 14, 2021 11:07:06 Eastern Daylight Time
Printed: Friday, September 17, 2021 10:50:04 Eastern Daylight Time

Method: C:\MassLynx\PBDE.PRO\MethDB\PBDEX-DB5-1-210913B.mdb 14 Sep 2021 10:56:36
Calibration: C:\MassLynx\PBDE.PRO\CurveDB\10-210913B-ICAL-PBDE.cdb 14 Sep 2021 11:07:06

Name: 10-210913B05, Date: 13-Sep-2021, Time: 19:32:22, ID: H10-21-CS1-0123, Description: PBDEX-CS#1-003, Vial: Tray1:2

	Target Analyte	#Hom	Total Area	Ion1 Area	Ion2 Area	Ra	Ra Fail=YES	RT	RRT	RT LCL	RT UCL	Conc.	%Rec	Mod.Comment	Noise 1	Noise 2
1	*BDE-1		22078.969	9893	12186	0.81	YES	4.89	0.96	4.86	4.93	1.1639427	116.4		33109	37741
2	BDE-2		26163.568	14871	11292	1.32	YES	5.00	0.98	4.96	5.03	0.93872682	93.9		33109	37741
3	BDE-3		35518.800	18188	17331	1.05	NO	5.11	1.00	5.08	5.15	1.0604435	106.0		33109	37741
4	*BDE-10		8474.796	2719	5756	0.47	NO	6.33	0.89	6.30	6.37	0.91339991	91.3		404	604
5	BDE-7		8197.885	2638	5560	0.47	NO	6.71	0.94	6.67	6.74	0.87770955	87.8		404	604
6	BDE-8/BDE-11		23703.294	7624	16079	0.47	NO	6.87	0.96	6.84	6.90	1.7695317	88.5		404	604
7	BDE-12/BDE-13		27538.275	9210	18328	0.50	NO	6.99	0.98	6.96	7.02	1.7789138	88.9		404	604
8	BDE-15		16379.090	5138	11241	0.46	NO	7.13	1.00	7.10	7.16	0.89211027	89.2		404	604
9	*BDE-30		5427.200	2858	2569	1.11	NO	7.83	0.90	7.79	7.86	0.93066777	93.1		828	910
10	BDE-32		7011.515	3545	3466	1.02	NO	8.28	0.96	8.25	8.32	0.87838831	87.8		828	910
11	BDE-17/BDE-25		10436.018	5201	5235	0.99	NO	8.44	0.97	8.40	8.47	1.7044873	85.2		828	910
12	BDE-28/BDE-33		11023.112	5660	5363	1.06	NO	8.67	1.00	8.64	8.71	1.7292984	86.5		828	910
13	BDE-35		7499.231	3804	3696	1.03	NO	8.83	1.02	8.79	8.86	0.85213491	85.2		828	910
14	BDE-37		7546.949	3748	3799	0.99	NO	9.02	1.04	8.98	9.05	0.85722110	85.7		828	910
15	*PBEB		7329.477	3750	3580	1.05	NO	9.03	0.90	8.99	9.06	0.83249290	83.2		360	295
16	*PBB-52		7837.094	4648	3189	1.46	NO	9.13	0.91	9.09	9.16	0.88111858	88.1		617	448
17	*HBB		6495.886	1790	4706	0.38	NO	10.01	1.00	9.98	10.04	0.88059147	88.1		291	404
18	*BDE-75		4276.777	1797	2480	0.72	NO	10.06	0.95	10.03	10.09	0.82720653	82.7		410	506
19	BDE-51		5309.887	2071	3238	0.64	NO	10.13	0.96	10.10	10.17	0.86575361	86.6		410	506
20	BDE-49		3111.544	1178	1933	0.61	NO	10.23	0.97	10.20	10.27	0.79636431	79.6		410	506
21	BDE-71		3536.967	1459	2078	0.70	NO	10.29	0.98	10.26	10.33	0.88098910	88.1		410	506
22	BDE-47		5002.502	2011	2991	0.67	NO	10.57	1.00	10.53	10.60	0.89404045	89.4		410	506
23	BDE-79		5112.065	1937	3175	0.61	NO	10.73	1.02	10.70	10.76	0.83648980	83.6		410	506
24	BDE-66		2955.688	1305	1651	0.79	NO	10.85	1.03	10.82	10.89	0.82362349	82.4		410	506
25	BDE-77		4255.589	1698	2558	0.66	NO	11.33	1.00	11.29	11.36	0.79344860	79.3		410	506
26	*PBB-101		12512.252	6496	6016	1.08	NO	11.46	1.01	11.43	11.50	1.7229251	86.1		591	544
27	*BDE-100		6351.471	3099	3252	0.95	NO	12.20	1.00	12.16	12.23	1.2260995	81.7		466	436
28	BDE-119/BDE-120		5188.016	2469	2719	0.91	NO	12.37	1.01	12.34	12.40	2.3037297	76.8		466	436
29	BDE-99		3862.212	1942	1920	1.01	NO	12.71	1.00	12.67	12.74	1.2629899	84.2		466	436
30	BDE-116		1841.959	926	916	1.01	NO	12.85	1.01	12.82	12.89	1.2561296	83.7		466	436
31	BDE-83		1998.551	1029	970	1.06	NO	12.99	1.02	12.96	13.03	1.2089494	80.6		466	436
32	BDE-118		2211.894	1054	1158	0.91	NO	13.12	1.03	13.08	13.15	1.1744057	78.3		466	436
33	BDE-85		2648.182	1414	1234	1.15	NO	13.60	0.99	13.57	13.63	1.2171299	81.1		466	436
34	BDE-126		3585.362	1919	1666	1.15	NO	13.76	1.00	13.73	13.80	1.2125085	80.8		466	436

Quantify Sample Summary Report **MassLynx MassLynx V4.1 SCN 901**

Dataset: I:\Organics Instrument\HIGHRES GCMS Completed Results Files\HR-10\2021\2109\10-210913B-ICAL-PBDE.qld

Last Altered: Tuesday, September 14, 2021 11:07:06 Eastern Daylight Time
Printed: Friday, September 17, 2021 10:50:04 Eastern Daylight Time

Name: 10-210913B05, Date: 13-Sep-2021, Time: 19:32:22, ID: H10-21-CS1-0123, Description: PBDEX-CS#1-003, Vial: Tray1:2

	Target Analyte	#Hom	Total Area	Ion1 Area	Ion2 Area	Ra	Ra Fail=YES	RT	RRT	RT LCL	RT UCL	Conc.	%Rec	Mod.Comment	Noise 1	Noise 2
35	BDE-105		2042.565	985	1057	0.93	NO	13.92	1.01	13.89	13.96	1.0739643	71.6		466	436
36	*PBB-153		7341.563	4320	3021	1.43	NO	14.10	1.00	14.06	14.13	1.7704146	88.5		348	659
37	*BDE-155		8925.425	5251	3675	1.43	NO	13.76	0.97	13.73	13.80	1.7349259	86.7		892	387
38	BDE-154		7824.492	4567	3257	1.40	NO	14.15	1.00	14.11	14.18	1.7806160	89.0		892	387
39	*BDE-153		3166.043	1915	1251	1.53	NO	14.87	1.00	14.84	14.91	1.6857307	84.3		945	803
40	BDE-140		3950.280	2348	1603	1.46	NO	15.33	1.01	15.29	15.36	1.7023582	85.1		945	803
41	BDE-138/BDE-166		4153.917	2246	1908	1.18	NO	15.87	1.07	15.83	15.90	3.2471227	81.2	EG210914MB	945	803
42	BDE-156		1196.192	717	479	1.50	NO	16.20	1.09	16.17	16.24	1.4464920	72.3	EG210914MB	945	803
43	BDE-128		1399.001	846	553	1.53	NO	16.82	0.99	16.79	16.86	1.4801753	74.0		945	803
44	*BDE-184		4297.850	2056	2242	0.92	NO	16.64	0.98	16.60	16.67	2.2278749	89.1	EG210914MB	257	316
45	BDE-183		2893.058	1478	1415	1.04	NO	17.01	1.00	16.98	17.04	2.2290119	89.2		257	316
46	BDE-191		1751.029	886	865	1.02	NO	17.57	1.03	17.54	17.61	2.1833068	87.3		257	316
47	BDE-181		1654.274	859	795	1.08	NO	18.11	1.01	18.08	18.14	2.0356003	81.4		257	316
48	BDE-190		1091.719	577	514	1.12	NO	18.27	1.02	18.24	18.31	1.9884499	79.5	EG210914MB	257	316
49	*PBB-180		1992.031	1076	916	1.17	NO	17.10	0.96	17.07	17.14	1.6578396	82.9	EG210914MB	640	302
50	*BDE-197		2153.679	977	1176	0.83	NO	19.49	1.00	19.46	19.52	2.0473976	81.9		346	471
51	BDE-203		1620.554	672	949	0.71	NO	19.77	1.01	19.73	19.80	2.1173277	84.7		346	471
52	BDE-196		1657.325	755	902	0.84	NO	19.89	1.02	19.86	19.93	1.8877937	75.5		346	471
53	*PBB-194		981.960	512	470	1.09	NO	19.97	1.03	19.94	20.00	1.4369658	71.8		235	184
54	*BDE-208		3385.178	1721	1664	1.03	NO	21.23	0.99	21.19	21.26	4.1881556	83.8	EG210914MB	776	630
55	BDE-207		3975.416	1943	2033	0.96	NO	21.34	1.00	21.31	21.38	4.2454735	84.9	EG210914MB	776	630
56	BDE-206		2777.255	1354	1423	0.95	NO	21.61	1.01	21.58	21.65	3.9248090	78.5	EG210914MB	776	630
57	*PBB-206		1518.716	742	777	0.95	NO	21.06	0.99	21.03	21.09	4.7303143	94.6		675	413
58	*PBB-209		1764.221	920	844	1.09	NO	21.97	1.03	21.93	22.00	4.8069861	96.1		287	336
59	*BDE-209		1045.756	554	492	1.13	NO	23.27	1.00	23.23	23.30	4.2997676	86.0	EG210914MB	163	212
60	*DBDPE		1390.205	676	715	0.95	NO	24.65	1.00	24.61	24.68	8.8050615	88.1		197	326
61	13C12-BDE-3		2102686.1...	1034225	1068462	0.97	NO	5.10	0.48	5.07	5.14	54.575253	109.2		1233	2387
62	13C12-BDE-15		1082857.8...	357803	725055	0.49	NO	7.13	0.67	7.10	7.16	51.521584	103.0		2449	6069
63	13C12-BDE-28		476680.751	240532	236149	1.02	NO	8.67	0.81	8.64	8.71	49.809882	99.6		833	1394
64	13C6-HBB		352171.063	254184	97987	2.59	NO	10.00	0.93	9.96	10.03	51.123748	102.2		1175	627
65	13C12-BDE-47		333350.391	201005	132346	1.52	NO	10.56	0.98	10.52	10.59	50.219726	100.4		1639	993
66	13C12-BDE-77		338722.844	204802	133921	1.53	NO	11.31	1.06	11.28	11.35	48.432513	96.9		1639	993
67	13C12-BDE-100		339546.578	171621	167926	1.02	NO	12.20	0.81	12.16	12.23	50.938514	101.9		2057	2196
68	13C12-BDE-99		185583.343	92768	92815	1.00	NO	12.69	0.84	12.66	12.73	47.481683	95.0		2057	2196
69	13C12-BDE-126		188779.242	95084	93696	1.01	NO	13.76	0.91	13.73	13.80	42.924412	85.8		2057	2196
70	13C12-BDE-154		240158.789	139997	100161	1.40	NO	14.13	0.93	14.10	14.17	44.592435	89.2		870	460
71	13C12-BDE-153		81001.816	47532	33470	1.42	NO	14.87	0.98	14.84	14.91	44.472107	88.9		1593	1056

Quantify Sample Summary Report **MassLynx MassLynx V4.1 SCN 901**

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Last Altered: Tuesday, September 14, 2021 11:07:06 Eastern Daylight Time
Printed: Friday, September 17, 2021 10:50:04 Eastern Daylight Time

Name: 10-210913B05, Date: 13-Sep-2021, Time: 19:32:22, ID: H10-21-CS1-0123, Description: PBDEX-CS#1-003, Vial: Tray1:2

	Target Analyte	#Hom	Total Area	Ion1 Area	Ion2 Area	Ra	Ra Fail=YES	RT	RRT	RT LCL	RT UCL	Conc.	%Rec	Mod.Comment	Noise 1	Noise 2
72	13C12-BDE-183		86892.270	43940	42953	1.02	NO	17.00	0.95	16.97	17.03	47.967546	95.9		449	603
73	13C12-BDE-197		133722.539	59930	73792	0.81	NO	19.48	1.09	19.44	19.51	95.667643	95.7		825	1410
74	13C12-BDE-207		257446.250	131511	125936	1.04	NO	21.34	0.99	21.31	21.38	245.52707	98.2		1463	1665
75	13C12-BDE-209		62972.034	35483	27489	1.29	NO	23.26	1.08	23.22	23.29	232.94192	93.2		1204	1020
76	13C14-DBDPE		88632.219	44525	44107	1.01	NO	24.65	1.14	24.61	24.68	439.44706	87.9		648	1198
77	13C12-BDE-138 (CL)		62677.244	36231	26446	1.37	NO	15.82	1.04	15.79	15.85	40.866875	81.7		1593	1056
78	13C12-BDE-79 (IS)		381117.266	226885	154232	1.47	NO	10.72	0.71	10.68	10.75	43.686600	87.4		1639	993
79	13C12-BDE-139 (IS)		107113.192	63110	44003	1.43	NO	15.14	0.00	15.11	15.17	42.503623	85.0		1593	1056
80	13C12-BDE-180 (IS)		42853.816	21901	20953	1.05	NO	17.88	1.18	17.84	17.91	36.463299	72.9		449	603
81	13C12-BDE-206 (IS)		197385.258	100130	97255	1.03	NO	21.60	1.43	21.57	21.64	136.71394	54.7		1463	1665
82	Total MoF1	3		42952								3.1631129			33109	
83	Total DiF2	5		27330								6.2316653			404	
84	Total TriF3	6		24816								6.9521979			828	
85	Total PBEBF3	1		3750								0.83249290			360	
86	Total TePBBF3	1		4648								0.88111858			617	
87	Total HBBF4	1		1790								0.88059147			291	
88	Total TetraF4	8		13457								6.7179159			410	
89	Total PePBBF4	1		6496								1.7229251			591	
90	Total PentaF5	9		14838								11.935907			466	
91	Total PBB-153	1		4320								1.7704146			348	
92	Total HexaF5	2		9818								3.5155419			892	
93	Total HexaF6	5		8073								9.5618790			945	
94	Total HeptaF6	5		5857								10.664244			257	
95	Total PBB-180	1		1076								1.6578396			640	
96	Total OctaF7	3		2404								6.0525190			346	
97	Total PBB-194	1		512								1.4369658			235	
98	Total NonaF8	3		5018								12.358438			776	
99	Total PBB-206	1		742								4.7303143			675	
100	Total PBB-209	1		920								4.8069861			287	
101	Total DecaF9	1		554								4.2997676			163	
102	Total DBDPEF10															
103	Total 13CMoF1	1		1034225								54.575253			1233	
104	Total 13CDiF2	1		357803								51.521584			2449	
105	Total 13CTriF3	1		240532								49.809882			833	
106	Total 13CHBBF4	1		254184								51.123748			1175	
107	Total 13CTetraF4	3		632691								142.33884			1639	
108	Total 13CPentaF5	3		359472								141.34461			2057	

Quantify Sample Summary Report **MassLynx MassLynx V4.1 SCN 901**

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Last Altered: Tuesday, September 14, 2021 11:07:06 Eastern Daylight Time
Printed: Friday, September 17, 2021 10:50:04 Eastern Daylight Time

Name: 10-210913B05, Date: 13-Sep-2021, Time: 19:32:22, ID: H10-21-CS1-0123, Description: PBDEX-CS#1-003, Vial: Tray1:2

	Target Analyte	#Hom	Total Area	Ion1 Area	Ion2 Area	Ra	Ra Fail=YES	RT	RRT	RT LCL	RT UCL	Conc.	%Rec	Mod.Comment	Noise 1	Noise 2
109	Total 13CHexaF5	1		139997								44.592435			870	
110	Total 13CHexaF6	3		146873								127.84261			1593	
111	Total 13CHeptaF6	2		65840								84.430845			449	
112	Total 13COctaF7	1		59930								95.667643			825	
113	Total 13CNonaF8	2		231641								382.24102			1463	
114	Total 13CDecaF9	1		35483								232.94192			1204	
115	Total 13CDBDPEF10															
116	Lockmass F1			0											286119	
117	Lockmass F2			0											510075	
118	Lockmass F3			0											333727	
119	Lockmass F4			0											105856	
120	Lockmass F5			0											55402	
121	Lockmass F6			0											26321	
122	Lockmass F7			0											14361	
123	Lockmass F8			0											19574	
124	Lockmass F9			0											26047	
125	Lockmass F10															

Quantify Sample Summary Report **MassLynx MassLynx V4.1 SCN 901**

Dataset: I:\Organics Instrument\HIGHRES GCMS Completed Results Files\HR-10\2021\2109\10-210913B-ICAL-PBDE.qld

Last Altered: Tuesday, September 14, 2021 11:07:06 Eastern Daylight Time
Printed: Friday, September 17, 2021 10:50:04 Eastern Daylight Time

Name: 10-210913B04, Date: 13-Sep-2021, Time: 18:57:29, ID: H10-21-CS2-0123, Description: PBDEX-CS#2-003, Vial: Tray1:3

	Target Analyte	#Hom	Total Area	Ion1 Area	Ion2 Area	Ra	Ra Fail=YES	RT	RRT	RT LCL	RT UCL	Conc.	%Rec	Mod.Comment	Noise 1	Noise 2
1	*BDE-1		78275.137	38274	40001	0.96	NO	4.91	0.96	4.88	4.95	3.8879182	97.2		29055	52393
2	BDE-2		117503.609	57701	59802	0.96	NO	5.01	0.98	4.97	5.04	3.9722260	99.3		29055	52393
3	BDE-3		141142.476	68702	72440	0.95	NO	5.12	1.00	5.09	5.16	3.9703377	99.3		29055	52393
4	*BDE-10		40856.896	13127	27730	0.47	NO	6.33	0.89	6.30	6.37	3.7682048	94.2		628	766
5	BDE-7		41699.343	13566	28134	0.48	NO	6.71	0.94	6.68	6.75	3.8204598	95.5		628	766
6	BDE-8/BDE-11		121541.558	39341	82201	0.48	NO	6.88	0.96	6.85	6.91	7.7644708	97.1		628	766
7	BDE-12/BDE-13		139934.207	45819	94115	0.49	NO	7.00	0.98	6.97	7.03	7.7353414	96.7		628	766
8	BDE-15		84456.069	27882	56574	0.49	NO	7.14	1.00	7.11	7.17	3.9363803	98.4		628	766
9	*BDE-30		26479.080	13415	13064	1.03	NO	7.84	0.90	7.80	7.87	3.6663648	91.7		1032	790
10	BDE-32		37645.769	18832	18813	1.00	NO	8.28	0.96	8.25	8.32	3.8080688	95.2		1032	790
11	BDE-17/BDE-25		58027.689	28974	29053	1.00	NO	8.45	0.97	8.42	8.48	7.6525851	95.7		1032	790
12	BDE-28/BDE-33		61041.190	30641	30401	1.01	NO	8.68	1.00	8.65	8.72	7.7321924	96.7		1032	790
13	BDE-35		40449.562	20302	20148	1.01	NO	8.83	1.02	8.79	8.86	3.7112429	92.8		1032	790
14	BDE-37		40253.537	20422	19831	1.03	NO	9.02	1.04	8.98	9.05	3.6918106	92.3		1032	790
15	*PBEB		40215.609	20780	19435	1.07	NO	9.03	0.90	8.99	9.06	3.5874173	89.7		341	386
16	*PBB-52		39748.052	24215	15533	1.56	NO	9.13	0.91	9.09	9.16	3.5097393	87.7		737	687
17	*HBB		35557.493	10137	25421	0.40	NO	10.01	1.00	9.98	10.04	3.7857063	94.6		394	396
18	*BDE-75		23612.814	9447	14166	0.67	NO	10.07	0.95	10.04	10.10	3.5017868	87.5		682	862
19	BDE-51		30028.724	11984	18045	0.66	NO	10.13	0.96	10.10	10.17	3.7539676	93.8		682	862
20	BDE-49		18152.100	7119	11033	0.65	NO	10.23	0.97	10.20	10.27	3.5621099	89.1		682	862
21	BDE-71		18380.988	7440	10941	0.68	NO	10.31	0.98	10.27	10.34	3.5103707	87.8		682	862
22	BDE-47		26056.577	10191	15865	0.64	NO	10.57	1.00	10.53	10.60	3.6682680	91.7		682	862
23	BDE-79		30411.952	11867	18545	0.64	NO	10.73	1.02	10.70	10.76	3.8155152	95.4		682	862
24	BDE-66		16691.912	6321	10371	0.61	NO	10.85	1.03	10.82	10.89	3.5663242	89.2		682	862
25	BDE-77		26345.034	10888	15457	0.70	NO	11.33	1.00	11.29	11.36	3.6699536	91.7		682	862
26	*PBB-101		69115.766	34729	34387	1.01	NO	11.46	1.01	11.43	11.50	7.2971394	91.2		642	558
27	*BDE-100		36594.265	18276	18319	1.00	NO	12.21	1.00	12.18	12.24	5.5199308	92.0		878	1125
28	BDE-119/BDE-120		32581.277	16445	16136	1.02	NO	12.37	1.01	12.34	12.40	10.628173	88.6		878	1125
29	BDE-99		23481.479	11915	11566	1.03	NO	12.71	1.00	12.67	12.74	5.5286577	92.1		878	1125
30	BDE-116		10509.037	5319	5190	1.02	NO	12.87	1.01	12.83	12.90	5.2647495	87.7		878	1125
31	BDE-83		12077.677	6160	5918	1.04	NO	12.99	1.02	12.96	13.03	5.3670615	89.5		878	1125
32	BDE-118		13534.694	6900	6635	1.04	NO	13.12	1.03	13.08	13.15	5.2791325	88.0		878	1125
33	BDE-85		15380.000	7857	7523	1.04	NO	13.60	0.99	13.57	13.63	5.1928495	86.5		878	1125
34	BDE-126		24350.925	12285	12065	1.02	NO	13.77	1.00	13.74	13.81	5.5617795	92.7		878	1125
35	BDE-105		13400.941	6888	6513	1.06	NO	13.92	1.01	13.89	13.96	5.1761819	86.3		878	1125
36	*PBB-153		43603.383	25184	18420	1.37	NO	14.10	1.00	14.06	14.13	7.4291307	92.9		298	758
37	*BDE-155		55856.038	32131	23725	1.35	NO	13.76	0.97	13.73	13.80	7.6710269	95.9		577	289

Quantify Sample Summary Report **MassLynx MassLynx V4.1 SCN 901**

Dataset: I:\Organics Instrument\HIGHRES GCMS Completed Results Files\HR-10\2021\2109\10-210913B-ICAL-PBDE.qld

Last Altered: Tuesday, September 14, 2021 11:07:06 Eastern Daylight Time
Printed: Friday, September 17, 2021 10:50:04 Eastern Daylight Time

Name: 10-210913B04, Date: 13-Sep-2021, Time: 18:57:29, ID: H10-21-CS2-0123, Description: PBDEX-CS#2-003, Vial: Tray1:3

	Target Analyte	#Hom	Total Area	Ion1 Area	Ion2 Area	Ra	Ra Fail=YES	RT	RRT	RT LCL	RT UCL	Conc.	%Rec	Mod.Comment	Noise 1	Noise 2
38	BDE-154		46919.318	27117	19803	1.37	NO	14.15	1.00	14.11	14.18	7.6150965	95.2		577	289
39	*BDE-153		19939.630	11851	8088	1.47	NO	14.88	1.00	14.85	14.92	7.2987546	91.2		1530	737
40	BDE-140		24229.039	14201	10028	1.42	NO	15.34	1.01	15.31	15.37	7.3771839	92.2		1530	737
41	BDE-138/BDE-166		25726.511	15124	10603	1.43	NO	15.87	1.07	15.83	15.90	14.208660	88.8	EG210914MJ	1530	737
42	BDE-156		8097.575	4682	3416	1.37	NO	16.20	1.09	16.17	16.24	6.9183335	86.5	EG210914MB	1530	737
43	BDE-128		9138.329	5381	3757	1.43	NO	16.84	0.99	16.80	16.87	6.8311415	85.4	EG210914MB	1530	737
44	*BDE-184		25343.381	12870	12474	1.03	NO	16.64	0.98	16.60	16.67	8.5625805	85.6		428	478
45	BDE-183		17458.053	8961	8497	1.05	NO	17.01	1.00	16.98	17.04	8.7670124	87.7		428	478
46	BDE-191		9977.803	5229	4749	1.10	NO	17.57	1.03	17.54	17.61	8.1088063	81.1		428	478
47	BDE-181		10699.404	5255	5445	0.96	NO	18.12	1.01	18.09	18.16	8.5811447	85.8		428	478
48	BDE-190		7324.719	3792	3533	1.07	NO	18.27	1.02	18.24	18.31	8.6955153	87.0		428	478
49	*PBB-180		12675.825	6190	6486	0.95	NO	17.12	0.96	17.08	17.15	6.8757996	85.9		639	327
50	*BDE-197		16194.262	7038	9156	0.77	NO	19.49	1.00	19.46	19.52	9.1844776	91.8		491	657
51	BDE-203		10585.702	4751	5835	0.81	NO	19.77	1.01	19.73	19.80	8.2511850	82.5		491	657
52	BDE-196		11554.901	5143	6412	0.80	NO	19.91	1.02	19.87	19.94	7.8520878	78.5		491	657
53	*PBB-194		6775.009	3766	3009	1.25	NO	19.97	1.02	19.94	20.00	5.9147252	73.9		317	283
54	*BDE-208		26724.106	13352	13372	1.00	NO	21.23	0.99	21.19	21.26	15.967732	79.8		731	690
55	BDE-207		34081.830	17007	17075	1.00	NO	21.35	1.00	21.32	21.39	17.577828	87.9		731	690
56	BDE-206		29473.851	15003	14471	1.04	NO	21.63	1.01	21.59	21.66	20.115850	100.6		731	690
57	*PBB-206		10054.826	5167	4888	1.06	NO	21.07	0.99	21.04	21.11	15.124698	75.6		769	1020
58	*PBB-209		11617.387	6578	5039	1.31	NO	21.97	1.03	21.93	22.00	15.287169	76.4		511	433
59	*BDE-209		10713.075	6040	4673	1.29	NO	23.28	1.00	23.24	23.31	17.667762	88.3		341	374
60	*DBDPE		16575.687	8445	8131	1.04	NO	24.67	1.00	24.64	24.70	33.877807	84.7		248	372
61	13C12-BDE-3		2231690.5...	1097559	1134132	0.97	NO	5.11	0.48	5.08	5.15	44.919981	89.8		1329	2078
62	13C12-BDE-15		1265418.0...	422428	842990	0.50	NO	7.13	0.66	7.10	7.16	46.691313	93.4		2223	4420
63	13C12-BDE-28		590355.594	296521	293834	1.01	NO	8.67	0.81	8.64	8.71	47.839417	95.7		1442	1180
64	13C6-HBB		448408.633	323020	125389	2.58	NO	10.01	0.93	9.98	10.04	50.480922	101.0		849	814
65	13C12-BDE-47		423181.984	255837	167345	1.53	NO	10.56	0.98	10.52	10.59	49.440726	98.9		1182	1639
66	13C12-BDE-77		453358.532	276610	176748	1.57	NO	11.33	1.06	11.29	11.36	50.271126	100.5		1182	1639
67	13C12-BDE-100		434540.407	219831	214709	1.02	NO	12.20	0.81	12.16	12.23	44.845114	89.7		3199	2222
68	13C12-BDE-99		257755.844	131794	125962	1.05	NO	12.69	0.84	12.66	12.73	45.366334	90.7		3199	2222
69	13C12-BDE-126		279516.672	138657	140860	0.98	NO	13.76	0.91	13.73	13.80	43.721584	87.4		3199	2222
70	13C12-BDE-154		336735.484	194948	141787	1.37	NO	14.13	0.93	14.10	14.17	43.012000	86.0		1455	491
71	13C12-BDE-153		117824.196	69920	47904	1.46	NO	14.87	0.98	14.84	14.91	44.500562	89.0		1540	1264
72	13C12-BDE-183		133315.477	66994	66322	1.01	NO	17.01	0.95	16.98	17.04	44.124519	88.2		642	915
73	13C12-BDE-197		224146.797	102717	121430	0.85	NO	19.49	1.09	19.46	19.52	96.144857	96.1		1263	1335
74	13C12-BDE-207		533074.407	268225	264849	1.01	NO	21.34	0.99	21.31	21.38	234.65622	93.9		2887	1924

Quantify Sample Summary Report **MassLynx MassLynx V4.1 SCN 901**

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Printed: Friday, September 17, 2021 10:50:04 Eastern Daylight Time

Name: 10-210913B04, Date: 13-Sep-2021, Time: 18:57:29, ID: H10-21-CS2-0123, Description: PBDEX-CS#2-003, Vial: Tray1:3

	Target Analyte	#Hom	Total Area	Ion1 Area	Ion2 Area	Ra	Ra Fail=YES	RT	RRT	RT LCL	RT UCL	Conc.	%Rec	Mod.Comment	Noise 1	Noise 2
75	13C12-BDE-209		156998.297	88122	68876	1.28	NO	23.27	1.08	23.23	23.30	268.05648	107.2		980	1227
76	13C14-DBDPE		274663.797	140179	134485	1.04	NO	24.66	1.14	24.63	24.69	628.56152	125.7		859	1058
77	13C12-BDE-138 (CL)		102396.223	59566	42830	1.39	NO	15.83	1.05	15.80	15.86	45.928634	91.9		1540	1264
78	13C12-BDE-79 (IS)		491444.328	296148	195296	1.52	NO	10.73	0.71	10.70	10.76	56.333138	112.7		1182	1639
79	13C12-BDE-139 (IS)		155705.843	92722	62983	1.47	NO	15.14	0.00	15.11	15.17	61.785690	123.6		1540	1264
80	13C12-BDE-180 (IS)		71475.375	36283	35192	1.03	NO	17.88	1.18	17.84	17.91	60.816707	121.6		642	915
81	13C12-BDE-206 (IS)		427644.891	216265	211380	1.02	NO	21.61	1.43	21.58	21.65	296.19750	118.5		2887	1924
82	Total MoF1	3		164678								11.830482			29055	
83	Total DiF2	5		139734								27.024857			628	
84	Total TriF3	6		132586								30.262265			1032	
85	Total PBEBF3	1		20780								3.5874173			341	
86	Total TePBBF3	1		24215								3.5097393			737	
87	Total HBBF4	1		10137								3.7857063			394	
88	Total TetraF4	8		75255								29.048296			682	
89	Total PePBBF4	1		34729								7.2971394			642	
90	Total PentaF5	9		92046								53.518515			878	
91	Total PBB-153	1		25184								7.4291307			298	
92	Total HexaF5	2		59248								15.286123			577	
93	Total HexaF6	5		51239								42.634074			1530	
94	Total HeptaF6	5		36106								42.715059			428	
95	Total PBB-180	1		6190								6.8757996			639	
96	Total OctaF7	3		16932								25.287750			491	
97	Total PBB-194	1		3766								5.9147252			317	
98	Total NonaF8	3		45362								53.661409			731	
99	Total PBB-206	1		5167								15.124698			769	
100	Total PBB-209	1		6578								15.287169			511	
101	Total DecaF9	1		6040								17.667762			341	
102	Total DBDPEF10															
103	Total 13CMoF1	1		1097559								44.919981			1329	
104	Total 13CDiF2	1		422428								46.691313			2223	
105	Total 13CTriF3	1		296521								47.839417			1442	
106	Total 13CHBBF4	1		323020								50.480922			849	
107	Total 13CTetraF4	3		828596								156.04499			1182	
108	Total 13CPentaF5	3		490282								133.93303			3199	
109	Total 13CHexaF5	1		194948								43.012000			1455	
110	Total 13CHexaF6	3		222208								152.21489			1540	
111	Total 13CHeptaF6	2		103277								104.94123			642	

Quantify Sample Summary Report **MassLynx MassLynx V4.1 SCN 901**

Dataset: I:\Organics Instrument\HIGHRES GCMS Completed Results Files\HR-10\2021\2109\10-210913B-ICAL-PBDE.qld

Last Altered: Tuesday, September 14, 2021 11:07:06 Eastern Daylight Time
Printed: Friday, September 17, 2021 10:50:04 Eastern Daylight Time

Name: 10-210913B04, Date: 13-Sep-2021, Time: 18:57:29, ID: H10-21-CS2-0123, Description: PBDEX-CS#2-003, Vial: Tray1:3

	Target Analyte	#Hom	Total Area	Ion1 Area	Ion2 Area	Ra	Ra Fail=YES	RT	RRT	RT LCL	RT UCL	Conc.	%Rec	Mod.Comment	Noise 1	Noise 2
112	Total 13COctaF7	1		102717								96.144857			1263	
113	Total 13CNonaF8	2		484490								530.85372			2887	
114	Total 13CDecaF9	1		88122								268.05648			980	
115	Total 13CDBDPEF10															
116	Lockmass F1			0											235409	
117	Lockmass F2			0											484502	
118	Lockmass F3			0											368393	
119	Lockmass F4			0											107543	
120	Lockmass F5			0											79384	
121	Lockmass F6			0											26444	
122	Lockmass F7			0											16307	
123	Lockmass F8			0											18263	
124	Lockmass F9			0											20870	
125	Lockmass F10															

Quantify Sample Summary Report **MassLynx MassLynx V4.1 SCN 901**

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Last Altered: Tuesday, September 14, 2021 11:07:06 Eastern Daylight Time
Printed: Friday, September 17, 2021 10:50:04 Eastern Daylight Time

Name: 10-210913B03, Date: 13-Sep-2021, Time: 18:23:00, ID: H10-21-CCV-0123, Description: PBDEX-CS#3-003, Vial: Tray1:1

	Target Analyte	#Hom	Total Area	Ion1 Area	Ion2 Area	Ra	Ra Fail=YES	RT	RRT	RT LCL	RT UCL	Conc.	%Rec	Mod.Comment	Noise 1	Noise 2
1	*BDE-1		355990.750	178363	177628	1.00	NO	4.90	0.96	4.87	4.94	18.713661	93.6		27560	49299
2	BDE-2		563320.781	278951	284370	0.98	NO	5.01	0.98	4.97	5.04	20.154187	100.8		27560	49299
3	BDE-3		660158.063	328443	331715	0.99	NO	5.11	1.00	5.08	5.15	19.653704	98.3		27560	49299
4	*BDE-10		212239.125	70257	141982	0.49	NO	6.33	0.89	6.30	6.37	20.070412	100.4		360	1053
5	BDE-7		220705.469	73117	147588	0.50	NO	6.71	0.94	6.67	6.74	20.732956	103.7		360	1053
6	BDE-8/BDE-11		624127.360	206922	417205	0.50	NO	6.87	0.96	6.84	6.90	40.881045	102.2		360	1053
7	BDE-12/BDE-13		714848.672	239351	475497	0.50	NO	6.99	0.98	6.96	7.02	40.516453	101.3		360	1053
8	BDE-15		435771.125	144534	291238	0.50	NO	7.14	1.00	7.11	7.17	20.825064	104.1		360	1053
9	*BDE-30		143934.266	72595	71339	1.02	NO	7.83	0.90	7.79	7.86	20.402157	102.0		1407	1946
10	BDE-32		201711.875	101863	99848	1.02	NO	8.28	0.96	8.25	8.32	20.888112	104.4		1407	1946
11	BDE-17/BDE-25		308026.125	154269	153757	1.00	NO	8.45	0.97	8.42	8.48	41.585272	104.0		1407	1946
12	BDE-28/BDE-33		321442.454	161494	159949	1.01	NO	8.67	1.00	8.64	8.71	41.683291	104.2		1407	1946
13	BDE-35		223953.226	112851	111102	1.02	NO	8.83	1.02	8.79	8.86	21.034974	105.2		1407	1946
14	BDE-37		222793.258	112271	110522	1.02	NO	9.02	1.04	8.98	9.05	20.917824	104.6		1407	1946
15	*PBEB		216262.250	111084	105179	1.06	NO	9.03	0.90	8.99	9.06	20.075254	100.4		396	355
16	*PBB-52		213374.578	128453	84921	1.51	NO	9.13	0.91	9.09	9.16	19.606260	98.0		1169	547
17	*HBB		187883.480	53442	134442	0.40	NO	10.01	1.00	9.98	10.04	20.816008	104.1		462	635
18	*BDE-75		132769.063	52902	79867	0.66	NO	10.07	0.95	10.04	10.10	20.083210	100.4		1266	2263
19	BDE-51		159295.957	64273	95023	0.68	NO	10.13	0.96	10.10	10.17	20.311999	101.6		1266	2263
20	BDE-49		105328.239	42254	63074	0.67	NO	10.23	0.97	10.20	10.27	21.082376	105.4		1266	2263
21	BDE-71		100263.441	40124	60140	0.67	NO	10.29	0.98	10.26	10.33	19.530844	97.7		1266	2263
22	BDE-47		144039.933	58067	85973	0.68	NO	10.57	1.00	10.53	10.60	20.844882	104.2		1266	2263
23	BDE-79		166115.649	67348	98768	0.68	NO	10.73	1.02	10.70	10.76	21.257575	106.3		1266	2263
24	BDE-66		94560.289	38726	55834	0.69	NO	10.85	1.03	10.82	10.89	20.607144	103.0		1266	2263
25	BDE-77		146636.782	58874	87763	0.67	NO	11.33	1.00	11.29	11.36	20.685637	103.4		1266	2263
26	*PBB-101		369519.360	186652	182868	1.02	NO	11.46	1.01	11.43	11.50	39.793028	99.5		592	784
27	*BDE-100		203874.664	103064	100811	1.02	NO	12.20	1.00	12.16	12.23	31.819056	106.1		1103	1393
28	BDE-119/BDE-120		187326.500	94869	92458	1.03	NO	12.37	1.01	12.34	12.40	61.243203	102.1		1103	1393
29	BDE-99		131604.816	66295	65310	1.02	NO	12.71	1.00	12.67	12.74	31.435332	104.8		1103	1393
30	BDE-116		60798.586	30715	30083	1.02	NO	12.85	1.01	12.82	12.89	30.526460	101.8		1103	1393
31	BDE-83		71102.551	35418	35685	0.99	NO	12.99	1.02	12.96	13.03	31.666971	105.6		1103	1393
32	BDE-118		83012.848	40839	42174	0.97	NO	13.12	1.03	13.08	13.15	32.450965	108.2		1103	1393
33	BDE-85		91559.274	46331	45228	1.02	NO	13.60	0.99	13.57	13.63	30.982747	103.3		1103	1393
34	BDE-126		144181.320	72001	72180	1.00	NO	13.76	1.00	13.73	13.80	31.139547	103.8		1103	1393
35	BDE-105		77626.469	39100	38526	1.01	NO	13.92	1.01	13.89	13.96	30.050538	100.2		1103	1393
36	*PBB-153		247887.243	142672	105215	1.36	NO	14.10	1.00	14.06	14.13	40.449659	101.1		585	1089
37	*BDE-155		312248.766	179650	132598	1.35	NO	13.76	0.97	13.73	13.80	41.070216	102.7		670	474

Quantify Sample Summary Report **MassLynx MassLynx V4.1 SCN 901**

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Name: 10-210913B03, Date: 13-Sep-2021, Time: 18:23:00, ID: H10-21-CCV-0123, Description: PBDEX-CS#3-003, Vial: Tray1:1

	Target Analyte	#Hom	Total Area	Ion1 Area	Ion2 Area	Ra	Ra Fail=YES	RT	RRT	RT LCL	RT UCL	Conc.	%Rec	Mod.Comment	Noise 1	Noise 2
38	BDE-154		267986.726	155373	112614	1.38	NO	14.13	1.00	14.10	14.17	41.407004	103.5		670	474
39	*BDE-153		117134.168	67755	49379	1.37	NO	14.88	1.00	14.85	14.92	41.782416	104.5		3328	1430
40	BDE-140		140288.274	81085	59203	1.37	NO	15.33	1.01	15.29	15.36	40.908982	102.3		3328	1430
41	BDE-138/BDE-166		155421.938	90631	64791	1.40	NO	15.87	1.07	15.83	15.90	82.210528	102.8		3328	1430
42	BDE-156		49165.215	29036	20129	1.44	NO	16.20	1.09	16.17	16.24	40.229750	100.6		3328	1430
43	BDE-128		56015.625	33417	22598	1.48	NO	16.82	0.99	16.79	16.86	40.103156	100.3		3328	1430
44	*BDE-184		155802.898	77865	77938	1.00	NO	16.64	0.98	16.60	16.67	49.801012	99.6		860	362
45	BDE-183		108999.152	55024	53975	1.02	NO	17.01	1.00	16.98	17.04	51.784699	103.6		860	362
46	BDE-191		64900.799	32680	32221	1.01	NO	17.57	1.03	17.54	17.61	49.899314	99.8		860	362
47	BDE-181		66935.067	33302	33633	0.99	NO	18.11	1.01	18.08	18.14	50.788089	101.6		860	362
48	BDE-190		44496.404	22598	21899	1.03	NO	18.27	1.02	18.24	18.31	49.974884	99.9		860	362
49	*PBB-180		79307.144	39731	39576	1.00	NO	17.12	0.96	17.08	17.15	40.698820	101.7		931	538
50	*BDE-197		93265.261	41260	52005	0.79	NO	19.49	1.00	19.46	19.52	51.460179	102.9		945	1421
51	BDE-203		66030.108	29029	37001	0.78	NO	19.77	1.01	19.73	19.80	50.072209	100.1		945	1421
52	BDE-196		73762.885	32645	41117	0.79	NO	19.89	1.02	19.86	19.93	48.765749	97.5		945	1421
53	*PBB-194		43560.297	24708	18852	1.31	NO	19.97	1.02	19.94	20.00	36.997605	92.5		417	411
54	*BDE-208		176928.836	89254	87675	1.02	NO	21.23	0.99	21.19	21.26	95.449712	95.4		1670	1266
55	BDE-207		224387.484	112569	111818	1.01	NO	21.34	1.00	21.31	21.38	104.49052	104.5		1670	1266
56	BDE-206		173834.399	87812	86023	1.02	NO	21.61	1.01	21.58	21.65	107.12065	107.1		1670	1266
57	*PBB-206		69230.379	35397	33834	1.05	NO	21.07	0.99	21.04	21.11	94.025324	94.0		968	1060
58	*PBB-209		78737.457	43719	35018	1.25	NO	21.97	1.03	21.93	22.00	93.548315	93.5		1127	1131
59	*BDE-209		61935.840	34914	27022	1.29	NO	23.27	1.00	23.23	23.30	99.799761	99.8		544	602
60	*DBDPE		96658.742	48550	48109	1.01	NO	24.66	1.00	24.63	24.69	202.27574	101.1		539	440
61	13C12-BDE-3		2108663.1...	1036781	1071882	0.97	NO	5.10	0.48	5.07	5.14	43.925074	87.9		1103	2141
62	13C12-BDE-15		1234162.4...	408117	826045	0.49	NO	7.13	0.67	7.10	7.16	47.127464	94.3		2134	7045
63	13C12-BDE-28		576679.594	292745	283935	1.03	NO	8.67	0.81	8.64	8.71	48.362247	96.7		1421	960
64	13C6-HBB		430904.367	311234	119671	2.60	NO	10.00	0.93	9.96	10.03	50.203489	100.4		818	680
65	13C12-BDE-47		411674.860	248091	163584	1.52	NO	10.56	0.98	10.52	10.59	49.775050	99.6		1740	1508
66	13C12-BDE-77		447690.251	272519	175171	1.56	NO	11.31	1.06	11.28	11.35	51.375274	102.8		1740	1508
67	13C12-BDE-100		419978.188	212768	207210	1.03	NO	12.20	0.81	12.16	12.23	45.119735	90.2		1232	1119
68	13C12-BDE-99		254071.820	129628	124444	1.04	NO	12.69	0.84	12.66	12.73	46.551802	93.1		1232	1119
69	13C12-BDE-126		295598.844	146754	148844	0.99	NO	13.76	0.91	13.73	13.80	48.133311	96.3		1232	1119
70	13C12-BDE-154		353713.859	205180	148534	1.38	NO	14.13	0.93	14.10	14.17	47.033539	94.1		1128	550
71	13C12-BDE-153		120908.324	70697	50211	1.41	NO	14.87	0.98	14.84	14.91	47.538124	95.1		1535	761
72	13C12-BDE-183		140915.266	69939	70977	0.99	NO	17.00	0.95	16.97	17.03	44.968279	89.9		569	727
73	13C12-BDE-197		230395.743	102679	127716	0.80	NO	19.49	1.09	19.46	19.52	95.283297	95.3		999	722
74	13C12-BDE-207		590407.500	297721	292687	1.02	NO	21.34	0.99	21.31	21.38	247.09846	98.8		1250	1386

Quantify Sample Summary Report **MassLynx MassLynx V4.1 SCN 901**

Dataset: I:\Organics Instrument\HIGHRES GCMS Completed Results Files\HR-10\2021\2109\10-210913B-ICAL-PBDE.qld

Last Altered: Tuesday, September 14, 2021 11:07:06 Eastern Daylight Time
Printed: Friday, September 17, 2021 10:50:04 Eastern Daylight Time

Name: 10-210913B03, Date: 13-Sep-2021, Time: 18:23:00, ID: H10-21-CCV-0123, Description: PBDEX-CS#3-003, Vial: Tray1:1

	Target Analyte	#Hom	Total Area	Ion1 Area	Ion2 Area	Ra	Ra Fail=YES	RT	RRT	RT LCL	RT UCL	Conc.	%Rec	Mod.Comment	Noise 1	Noise 2
75	13C12-BDE-209		160684.828	89494	71191	1.26	NO	23.26	1.08	23.22	23.29	260.84359	104.3		823	1646
76	13C14-DBDPE		268251.719	137277	130975	1.05	NO	24.65	1.14	24.61	24.68	583.66387	116.7		907	1226
77	13C12-BDE-138 (CL)		106960.625	62384	44576	1.40	NO	15.82	1.04	15.79	15.85	49.943429	99.9		1535	761
78	13C12-BDE-79 (IS)		474869.891	286393	188477	1.52	NO	10.72	0.71	10.68	10.75	54.433249	108.9		1740	1508
79	13C12-BDE-139 (IS)		149571.922	87834	61738	1.42	NO	15.14	0.00	15.11	15.17	59.351686	118.7		1535	761
80	13C12-BDE-180 (IS)		74132.328	37168	36964	1.01	NO	17.88	1.18	17.84	17.91	63.077445	126.2		569	727
81	13C12-BDE-206 (IS)		449789.547	226334	223456	1.01	NO	21.61	1.43	21.58	21.65	311.53544	124.6		1250	1386
82	Total MoF1	3		785756								58.521552			27560	
83	Total DiF2	5		734182								143.02593			360	
84	Total TriF3	6		715344								166.51163			1407	
85	Total PBEBF3	1		111084								20.075254			396	
86	Total TePBBF3	1		128453								19.606260			1169	
87	Total HBBF4	1		53442								20.816008			462	
88	Total TetraF4	8		422568								164.40367			1266	
89	Total PePBBF4	1		186652								39.793028			592	
90	Total PentaF5	9		528631								311.31482			1103	
91	Total PBB-153	1		142672								40.449659			585	
92	Total HexaF5	2		335023								82.477221			670	
93	Total HexaF6	5		301925								245.23483			3328	
94	Total HeptaF6	5		221470								252.24800			860	
95	Total PBB-180	1		39731								40.698820			931	
96	Total OctaF7	3		102935								150.29814			945	
97	Total PBB-194	1		24708								36.997605			417	
98	Total NonaF8	3		289635								307.06088			1670	
99	Total PBB-206	1		35397								94.025324			968	
100	Total PBB-209	1		43719								93.548315			1127	
101	Total DecaF9	1		34914								99.799761			544	
102	Total DBDPEF10															
103	Total 13CMoF1	1		1036781								43.925074			1103	
104	Total 13CDiF2	1		408117								47.127464			2134	
105	Total 13CTriF3	1		292745								48.362247			1421	
106	Total 13CHBBF4	1		311234								50.203489			818	
107	Total 13CTetraF4	3		807003								155.58357			1740	
108	Total 13CPentaF5	3		489150								139.80485			1232	
109	Total 13CHexaF5	1		205180								47.033539			1128	
110	Total 13CHexaF6	3		220916								156.83324			1535	
111	Total 13CHeptaF6	2		107107								108.04572			569	

Quantify Sample Summary Report **MassLynx MassLynx V4.1 SCN 901**

Dataset: I:\Organics Instrument\HIGHRES GCMS Completed Results Files\HR-10\2021\2109\10-210913B-ICAL-PBDE.qld

Last Altered: Tuesday, September 14, 2021 11:07:06 Eastern Daylight Time
Printed: Friday, September 17, 2021 10:50:04 Eastern Daylight Time

Name: 10-210913B03, Date: 13-Sep-2021, Time: 18:23:00, ID: H10-21-CCV-0123, Description: PBDEX-CS#3-003, Vial: Tray1:1

	Target Analyte	#Hom	Total Area	Ion1 Area	Ion2 Area	Ra	Ra Fail=YES	RT	RRT	RT LCL	RT UCL	Conc.	%Rec	Mod.Comment	Noise 1	Noise 2
112	Total 13COctaF7	1		102679								95.283297			999	
113	Total 13CNonaF8	2		524055								558.63390			1250	
114	Total 13CDecaF9	1		89494								260.84359			823	
115	Total 13CDBDPEF10															
116	Lockmass F1			0											220422	
117	Lockmass F2			0											471028	
118	Lockmass F3			0											368217	
119	Lockmass F4			0											138930	
120	Lockmass F5			0											69899	
121	Lockmass F6			0											28211	
122	Lockmass F7			0											15124	
123	Lockmass F8			0											11748	
124	Lockmass F9			0											22510	
125	Lockmass F10															

Quantify Sample Summary Report **MassLynx MassLynx V4.1 SCN 901**

Dataset: I:\Organics Instrument\HIGHRES GCMS Completed Results Files\HR-10\2021\2109\10-210913B-ICAL-PBDE.qld

Last Altered: Tuesday, September 14, 2021 11:07:06 Eastern Daylight Time
Printed: Friday, September 17, 2021 10:50:04 Eastern Daylight Time

Name: 10-210913B07, Date: 13-Sep-2021, Time: 20:42:01, ID: H10-21-CS4-0123, Description: PBDEX-CS#4-003, Vial: Tray1:4

	Target Analyte	#Hom	Total Area	Ion1 Area	Ion2 Area	Ra	Ra Fail=YES	RT	RRT	RT LCL	RT UCL	Conc.	%Rec	Mod.Comment	Noise 1	Noise 2
1	*BDE-1		1577344.5...	748150	829195	0.90	NO	4.91	0.96	4.88	4.95	76.810191	96.0		20463	37310
2	BDE-2		2399973.6...	1139841	1260133	0.90	NO	5.01	0.98	4.97	5.04	79.540481	99.4		20463	37310
3	BDE-3		2777494.3...	1349219	1428275	0.94	NO	5.12	1.00	5.09	5.16	76.598791	95.7		20463	37310
4	*BDE-10		871062.531	291050	580012	0.50	NO	6.34	0.89	6.31	6.38	85.688894	107.1		633	523
5	BDE-7		858466.126	286086	572380	0.50	NO	6.71	0.94	6.68	6.75	83.891055	104.9		633	523
6	BDE-8/BDE-11		2447696.8...	816167	1631530	0.50	NO	6.89	0.96	6.85	6.92	166.78261	104.2		633	523
7	BDE-12/BDE-13		2834953.5...	945486	1889468	0.50	NO	7.00	0.98	6.97	7.03	167.15047	104.5		633	523
8	BDE-15		1648396.8...	551830	1096567	0.50	NO	7.15	1.00	7.11	7.18	81.947185	102.4		633	523
9	*BDE-30		558435.000	279544	278891	1.00	NO	7.84	0.90	7.80	7.87	87.391953	109.2		2418	1538
10	BDE-32		742793.125	373601	369192	1.01	NO	8.29	0.96	8.26	8.33	84.922452	106.2		2418	1538
11	BDE-17/BDE-25		1137756.6...	569631	568126	1.00	NO	8.45	0.97	8.42	8.48	169.58535	106.0		2418	1538
12	BDE-28/BDE-33		1175615.8...	590178	585438	1.01	NO	8.68	1.00	8.65	8.72	168.31046	105.2		2418	1538
13	BDE-35		812941.594	409186	403755	1.01	NO	8.84	1.02	8.80	8.87	84.300653	105.4		2418	1538
14	BDE-37		815762.657	412083	403680	1.02	NO	9.03	1.04	8.99	9.06	84.560049	105.7		2418	1538
15	*PBEB		798732.438	406112	392620	1.03	NO	9.04	0.90	9.00	9.07	88.878042	111.1		595	683
16	*PBB-52		792237.751	478271	313967	1.52	NO	9.14	0.91	9.10	9.17	87.261052	109.1		974	567
17	*HBB		635219.813	183362	451858	0.41	NO	10.01	1.00	9.98	10.04	84.361778	105.5		605	664
18	*BDE-75		494864.782	198461	296404	0.67	NO	10.07	0.95	10.04	10.10	91.235789	114.0		4394	2421
19	BDE-51		570455.141	229709	340746	0.67	NO	10.15	0.96	10.11	10.18	88.656762	110.8		4394	2421
20	BDE-49		363636.718	146167	217470	0.67	NO	10.23	0.97	10.20	10.27	88.712517	110.9		4394	2421
21	BDE-71		384204.297	154923	229282	0.68	NO	10.31	0.98	10.27	10.34	91.218532	114.0		4394	2421
22	BDE-47		492338.500	199609	292730	0.68	NO	10.57	1.00	10.53	10.60	84.081350	105.1		4394	2421
23	BDE-79		550336.609	222197	328139	0.68	NO	10.74	1.02	10.71	10.78	85.836899	107.3		4394	2421
24	BDE-66		334206.751	134308	199899	0.67	NO	10.85	1.03	10.82	10.89	88.770095	111.0		4394	2421
25	BDE-77		497915.828	193428	304488	0.64	NO	11.33	1.00	11.29	11.36	88.273751	110.3		4394	2421
26	*PBB-101		1329875.1...	672879	656996	1.02	NO	11.48	1.01	11.44	11.51	174.55132	109.1		1226	991
27	*BDE-100		700329.469	350883	349447	1.00	NO	12.21	1.00	12.18	12.24	129.79966	108.2		1842	2083
28	BDE-119/BDE-120		680137.251	343483	336654	1.02	NO	12.38	1.02	12.35	12.42	272.25611	113.4		1842	2083
29	BDE-99		442090.469	222634	219457	1.01	NO	12.72	1.00	12.68	12.75	129.84475	108.2		1842	2083
30	BDE-116		218685.422	109532	109154	1.00	NO	12.87	1.01	12.83	12.90	134.43897	112.0		1842	2083
31	BDE-83		243440.727	122443	120997	1.01	NO	13.00	1.02	12.97	13.04	132.75075	110.6		1842	2083
32	BDE-118		275357.594	136592	138765	0.98	NO	13.12	1.03	13.08	13.15	131.79586	109.8		1842	2083
33	BDE-85		313811.313	157345	156467	1.01	NO	13.61	0.99	13.58	13.65	130.01952	108.3		1842	2083
34	BDE-126		467077.266	234272	232805	1.01	NO	13.77	1.00	13.74	13.81	128.72117	107.3		1842	2083
35	BDE-105		289093.672	145279	143815	1.01	NO	13.94	1.01	13.90	13.97	137.02613	114.2		1842	2083
36	*PBB-153		849750.031	488857	360893	1.35	NO	14.11	1.00	14.08	14.14	169.01167	105.6		632	744
37	*BDE-155		1063446.0...	615468	447978	1.37	NO	13.77	0.97	13.74	13.81	170.49299	106.6		663	457

Quantify Sample Summary Report **MassLynx MassLynx V4.1 SCN 901**

Dataset: I:\Organics Instrument\HIGHRES GCMS Completed Results Files\HR-10\2021\2109\10-210913B-ICAL-PBDE.qld

Last Altered: Tuesday, September 14, 2021 11:07:06 Eastern Daylight Time
Printed: Friday, September 17, 2021 10:50:04 Eastern Daylight Time

Name: 10-210913B07, Date: 13-Sep-2021, Time: 20:42:01, ID: H10-21-CS4-0123, Description: PBDEX-CS#4-003, Vial: Tray1:4

	Target Analyte	#Hom	Total Area	Ion1 Area	Ion2 Area	Ra	Ra Fail=YES	RT	RRT	RT LCL	RT UCL	Conc.	%Rec	Mod.Comment	Noise 1	Noise 2
38	BDE-154		901952.750	521089	380864	1.37	NO	14.15	1.00	14.11	14.18	167.07181	104.4		663	457
39	*BDE-153		380368.765	220027	160342	1.37	NO	14.88	1.00	14.85	14.92	173.88982	108.7		2580	2002
40	BDE-140		475386.062	276504	198882	1.39	NO	15.34	1.01	15.31	15.37	168.96959	105.6		2580	2002
41	BDE-138/BDE-166		525438.422	305885	219554	1.39	NO	15.88	1.07	15.84	15.91	338.76752	105.9		2580	2002
42	BDE-156		166743.796	97345	69399	1.40	NO	16.22	1.09	16.18	16.25	166.30446	103.9		2580	2002
43	BDE-128		192902.836	112125	80778	1.39	NO	16.84	0.99	16.80	16.87	168.33437	105.2		2580	2002
44	*BDE-184		540459.750	273122	267338	1.02	NO	16.65	0.98	16.62	16.68	224.09240	112.0		1453	641
45	BDE-183		353343.656	180842	172502	1.05	NO	17.02	1.00	16.99	17.06	217.75933	108.9		1453	641
46	BDE-191		217905.429	110487	107418	1.03	NO	17.58	1.03	17.55	17.62	217.32701	108.7		1453	641
47	BDE-181		221839.765	112166	109674	1.02	NO	18.12	1.01	18.09	18.16	218.34774	109.2		1453	641
48	BDE-190		147738.234	73756	73983	1.00	NO	18.27	1.02	18.24	18.31	215.23897	107.6		1453	641
49	*PBB-180		269001.109	136007	132994	1.02	NO	17.13	0.96	17.09	17.16	179.07077	111.9		836	597
50	*BDE-197		269871.594	120276	149595	0.80	NO	19.50	1.00	19.47	19.54	218.06593	109.0		1678	1356
51	BDE-203		194649.047	86211	108438	0.80	NO	19.78	1.01	19.75	19.81	216.16545	108.1		1678	1356
52	BDE-196		231574.118	103360	128214	0.81	NO	19.91	1.02	19.87	19.94	224.20551	112.1		1678	1356
53	*PBB-194		149917.879	84645	65273	1.30	NO	19.98	1.03	19.95	20.02	186.47279	116.5		490	592
54	*BDE-208		572159.187	288082	284077	1.01	NO	21.24	0.99	21.20	21.27	458.33444	114.6		2184	4052
55	BDE-207		643407.437	323025	320383	1.01	NO	21.35	1.00	21.32	21.39	444.89134	111.2		2184	4052
56	BDE-206		453138.672	231281	221858	1.04	NO	21.63	1.01	21.59	21.66	414.62761	103.7		2184	4052
57	*PBB-206		227023.601	116754	110270	1.06	NO	21.08	0.99	21.05	21.12	457.83475	114.5		1522	2667
58	*PBB-209		253364.641	142123	111242	1.28	NO	21.98	1.03	21.95	22.01	446.98218	111.7		1684	1510
59	*BDE-209		156195.969	89973	66223	1.36	NO	23.28	1.00	23.24	23.31	436.49067	109.1		965	957
60	*DBDPE		187387.008	93452	93935	0.99	NO	24.66	1.00	24.63	24.69	860.52755	107.6		422	605
61	13C12-BDE-3		2276328.6...	1125063	1151266	0.98	NO	5.11	0.48	5.08	5.15	56.822072	113.6		1296	2638
62	13C12-BDE-15		1186391.3...	393282	793110	0.50	NO	7.14	0.67	7.11	7.17	54.288334	108.6		1759	6069
63	13C12-BDE-28		522333.219	262547	259786	1.01	NO	8.68	0.81	8.65	8.72	52.492390	105.0		1608	1629
64	13C6-HBB		359474.477	259266	100209	2.59	NO	10.01	0.93	9.98	10.04	50.187767	100.4		1016	637
65	13C12-BDE-47		348847.000	214048	134799	1.59	NO	10.57	0.98	10.53	10.60	50.543948	101.1		1365	1416
66	13C12-BDE-77		356227.922	215305	140923	1.53	NO	11.33	1.06	11.29	11.36	48.987049	98.0		1365	1416
67	13C12-BDE-100		353654.844	178257	175398	1.02	NO	12.20	0.81	12.16	12.23	53.274904	106.5		1346	1163
68	13C12-BDE-99		206628.172	104211	102418	1.02	NO	12.71	0.84	12.67	12.74	53.085119	106.2		1346	1163
69	13C12-BDE-126		231656.656	116502	115155	1.01	NO	13.77	0.91	13.74	13.81	52.892130	105.8		1346	1163
70	13C12-BDE-154		295048.375	170620	124429	1.37	NO	14.15	0.93	14.11	14.18	55.011321	110.0		1065	714
71	13C12-BDE-153		94340.211	55088	39252	1.40	NO	14.88	0.98	14.85	14.92	52.009892	104.0		1313	1391
72	13C12-BDE-183		108631.785	54144	54488	0.99	NO	17.01	0.95	16.98	17.04	53.756998	107.5		551	673
73	13C12-BDE-197		157324.078	70633	86691	0.81	NO	19.49	1.09	19.46	19.52	100.89448	100.9		1096	795
74	13C12-BDE-207		397614.531	199825	197790	1.01	NO	21.35	0.99	21.32	21.39	262.20312	104.9		2983	2568

Quantify Sample Summary Report **MassLynx MassLynx V4.1 SCN 901**

Dataset: I:\Organics Instrument\HIGHRES GCMS Completed Results Files\HR-10\2021\2109\10-210913B-ICAL-PBDE.qld

Last Altered: Tuesday, September 14, 2021 11:07:06 Eastern Daylight Time
Printed: Friday, September 17, 2021 10:50:04 Eastern Daylight Time

Name: 10-210913B07, Date: 13-Sep-2021, Time: 20:42:01, ID: H10-21-CS4-0123, Description: PBDEX-CS#4-003, Vial: Tray1:4

	Target Analyte	#Hom	Total Area	Ion1 Area	Ion2 Area	Ra	Ra Fail=YES	RT	RRT	RT LCL	RT UCL	Conc.	%Rec	Mod.Comment	Noise 1	Noise 2
75	13C12-BDE-209		92652.511	53589	39063	1.37	NO	23.28	1.08	23.24	23.31	236.98449	94.8		1039	1275
76	13C14-DBDPE		122241.836	60333	61909	0.97	NO	24.66	1.14	24.63	24.69	419.08065	83.8		772	1191
77	13C12-BDE-138 (CL)		77409.498	45495	31915	1.43	NO	15.83	1.05	15.80	15.86	50.681790	101.4		1313	1391
78	13C12-BDE-79 (IS)		396276.047	242463	153813	1.58	NO	10.73	0.71	10.70	10.76	45.424216	90.8		1365	1416
79	13C12-BDE-139 (IS)		106671.109	63427	43244	1.47	NO	15.14	0.00	15.11	15.17	42.328200	84.7		1313	1391
80	13C12-BDE-180 (IS)		47805.489	23836	23969	0.99	NO	17.88	1.18	17.84	17.91	40.676560	81.4		551	673
81	13C12-BDE-206 (IS)		285464.375	145029	140436	1.03	NO	21.61	1.43	21.58	21.65	197.71973	79.1		2983	2568
82	Total MoF1	3		3237210								232.94946			20463	
83	Total DiF2	5		2890619								585.46021			633	
84	Total TriF3	6		2634224								679.07092			2418	
85	Total PBEBF3	1		406112								88.878042			595	
86	Total TePBBF3	1		478271								87.261052			974	
87	Total HBBF4	1		183362								84.361778			605	
88	Total TetraF4	8		1478801								706.78569			4394	
89	Total PePBBF4	1		672879								174.55132			1226	
90	Total PentaF5	9		1822462								1326.6529			1842	
91	Total PBB-153	1		488857								169.01167			632	
92	Total HexaF5	2		1136558								337.56479			663	
93	Total HexaF6	5		1011885								1016.2658			2580	
94	Total HeptaF6	5		750372								1092.7654			1453	
95	Total PBB-180	1		136007								179.07077			836	
96	Total OctaF7	3		309848								658.43689			1678	
97	Total PBB-194	1		84645								186.47279			490	
98	Total NonaF8	3		842388								1317.8534			2184	
99	Total PBB-206	1		116754								457.83475			1522	
100	Total PBB-209	1		142123								446.98218			1684	
101	Total DecaF9	1		89973								436.49067			965	
102	Total DBDPEF10															
103	Total 13CMoF1	1		1125063								56.822072			1296	
104	Total 13CDiF2	1		393282								54.288334			1759	
105	Total 13CTriF3	1		262547								52.492390			1608	
106	Total 13CHBBF4	1		259266								50.187767			1016	
107	Total 13CTetraF4	3		671816								144.95521			1365	
108	Total 13CPentaF5	3		398970								159.25215			1346	
109	Total 13CHexaF5	1		170620								55.011321			1065	
110	Total 13CHexaF6	3		164010								145.01988			1313	
111	Total 13CHeptaF6	2		77980								94.433559			551	

Quantify Sample Summary Report **MassLynx MassLynx V4.1 SCN 901**

Dataset: I:\Organics Instrument\HIGHRES GCMS Completed Results Files\HR-10\2021\2109\10-210913B-ICAL-PBDE.qld

Last Altered: Tuesday, September 14, 2021 11:07:06 Eastern Daylight Time
Printed: Friday, September 17, 2021 10:50:04 Eastern Daylight Time

Name: 10-210913B07, Date: 13-Sep-2021, Time: 20:42:01, ID: H10-21-CS4-0123, Description: PBDEX-CS#4-003, Vial: Tray1:4

	Target Analyte	#Hom	Total Area	Ion1 Area	Ion2 Area	Ra	Ra Fail=YES	RT	RRT	RT LCL	RT UCL	Conc.	%Rec	Mod.Comment	Noise 1	Noise 2
112	Total 13COctaF7	1		70633								100.89448			1096	
113	Total 13CNonaF8	2		344854								459.92285			2983	
114	Total 13CDecaF9	1		53589								236.98449			1039	
115	Total 13CDBDPEF10															
116	Lockmass F1			0											240884	
117	Lockmass F2			0											437764	
118	Lockmass F3			0											272648	
119	Lockmass F4			0											93598	
120	Lockmass F5			0											67796	
121	Lockmass F6			0											25643	
122	Lockmass F7			0											12628	
123	Lockmass F8			0											19552	
124	Lockmass F9			0											22237	
125	Lockmass F10															

Quantify Sample Summary Report **MassLynx MassLynx V4.1 SCN 901**

Dataset: I:\Organics Instrument\HIGHRES GCMS Completed Results Files\HR-10\2021\2109\10-210913B-ICAL-PBDE.qld

Last Altered: Tuesday, September 14, 2021 11:07:06 Eastern Daylight Time
Printed: Friday, September 17, 2021 10:50:04 Eastern Daylight Time

Name: 10-210913B06, Date: 13-Sep-2021, Time: 20:07:08, ID: H10-21-CS5-0123, Description: PBDEX-CS#5-003, Vial: Tray1:5

	Target Analyte	#Hom	Total Area	Ion1 Area	Ion2 Area	Ra	Ra Fail=YES	RT	RRT	RT LCL	RT UCL	Conc.	%Rec	Mod.Comment	Noise 1	Noise 2
1	*BDE-1		4611101.000	2295423	2315678	0.99	NO	4.89	0.96	4.86	4.93	232.38417	96.8		30547	39372
2	BDE-2		7460698.2...	3694201	3766498	0.98	NO	5.00	0.98	4.96	5.03	255.90032	106.6		30547	39372
3	BDE-3		8465975.0...	4229913	4236062	1.00	NO	5.10	1.00	5.07	5.14	241.63248	100.7		30547	39372
4	*BDE-10		2672457.0...	887399	1785058	0.50	NO	6.32	0.89	6.29	6.36	256.78011	107.0		1483	2014
5	BDE-7		2720359.0...	904866	1815493	0.50	NO	6.71	0.94	6.67	6.74	259.65349	108.2		1483	2014
6	BDE-8/BDE-11		7791123.5...	2588504	5202620	0.50	NO	6.87	0.96	6.84	6.90	518.52378	108.0		1483	2014
7	BDE-12/BDE-13		9051976.2...	3013388	6038588	0.50	NO	6.99	0.98	6.96	7.02	521.29135	108.6		1483	2014
8	BDE-15		5230364.6...	1738618	3491747	0.50	NO	7.13	1.00	7.10	7.16	253.96840	105.8		1483	2014
9	*BDE-30		1726906.8...	863483	863424	1.00	NO	7.83	0.90	7.79	7.86	249.65611	104.0		1614	3683
10	BDE-32		2417042.2...	1213172	1203871	1.01	NO	8.27	0.95	8.24	8.31	255.27798	106.4		1614	3683
11	BDE-17/BDE-25		3805471.5...	1910994	1894478	1.01	NO	8.44	0.97	8.40	8.47	523.98863	109.2		1614	3683
12	BDE-28/BDE-33		3900770.2...	1961554	1939216	1.01	NO	8.67	1.00	8.64	8.71	515.90595	107.5		1614	3683
13	BDE-35		2792310.8...	1400750	1391561	1.01	NO	8.82	1.02	8.78	8.85	267.49140	111.5		1614	3683
14	BDE-37		2799387.6...	1409267	1390121	1.01	NO	9.01	1.04	8.97	9.04	268.06426	111.7		1614	3683
15	*PBEB		2631309.2...	1341010	1290299	1.04	NO	9.02	0.90	8.98	9.05	277.41949	115.6		486	629
16	*PBB-52		2691520.8...	1622498	1069023	1.52	NO	9.12	0.91	9.08	9.15	280.88891	117.0		910	723
17	*HBB		2055413.1...	599703	1455710	0.41	NO	10.00	1.00	9.96	10.03	258.63824	107.8		591	628
18	*BDE-75		1680579.4...	675236	1005344	0.67	NO	10.06	0.95	10.03	10.09	276.65734	115.3		1069	3043
19	BDE-51		1853911.1...	748575	1105336	0.68	NO	10.12	0.96	10.09	10.15	257.26680	107.2		1069	3043
20	BDE-49		1267123.0...	509441	757682	0.67	NO	10.22	0.97	10.19	10.25	276.01991	115.0		1069	3043
21	BDE-71		1273213.1...	514116	759097	0.68	NO	10.29	0.98	10.26	10.33	269.91464	112.5		1069	3043
22	BDE-47		1681384.6...	677841	1003544	0.68	NO	10.56	1.00	10.52	10.59	262.95158	109.6		1069	3043
23	BDE-79		1850465.9...	747021	1103445	0.68	NO	10.72	1.02	10.68	10.75	257.70995	107.4		1069	3043
24	BDE-66		1158482.5...	465842	692640	0.67	NO	10.84	1.03	10.81	10.88	274.75489	114.5		1069	3043
25	BDE-77		1788220.8...	720168	1068053	0.67	NO	11.31	1.00	11.28	11.35	276.32623	115.1		1069	3043
26	*PBB-101		4671613.2...	2353910	2317704	1.02	NO	11.46	1.01	11.43	11.50	547.49933	114.1		877	519
27	*BDE-100		2371800.0...	1198063	1173737	1.02	NO	12.20	1.00	12.16	12.23	403.31260	112.0		6257	1053
28	BDE-119/BDE-120		2441361.1...	1232863	1208498	1.02	NO	12.37	1.02	12.34	12.40	857.72776	119.1		6257	1053
29	BDE-99		1528786.4...	770377	758410	1.02	NO	12.69	1.00	12.66	12.73	398.40473	110.7		6257	1053
30	BDE-116		765452.562	386655	378797	1.02	NO	12.85	1.01	12.82	12.89	413.00947	114.7		6257	1053
31	BDE-83		855757.594	424328	431429	0.98	NO	12.99	1.02	12.96	13.03	409.57257	113.8		6257	1053
32	BDE-118		991684.532	497582	494103	1.01	NO	13.10	1.03	13.07	13.14	416.59553	115.7		6257	1053
33	BDE-85		1194757.5...	603368	591389	1.02	NO	13.59	0.99	13.55	13.62	434.46631	120.7		6257	1053
34	BDE-126		1847922.0...	930690	917232	1.01	NO	13.76	1.00	13.73	13.80	415.45312	115.4		6257	1053
35	BDE-105		1105732.0...	556560	549172	1.01	NO	13.92	1.01	13.89	13.96	459.99282	127.8		6257	1053
36	*PBB-153		3138486.8...	1804774	1333713	1.35	NO	14.09	1.00	14.05	14.12	536.92172	111.9		733	884
37	*BDE-155		3763917.5...	2173039	1590879	1.37	NO	13.76	0.97	13.73	13.80	519.03462	108.1		967	544

Quantify Sample Summary Report **MassLynx MassLynx V4.1 SCN 901**

Dataset: I:\Organics Instrument\HIGHRES GCMS Completed Results Files\HR-10\2021\2109\10-210913B-ICAL-PBDE.qld

Last Altered: Tuesday, September 14, 2021 11:07:06 Eastern Daylight Time
Printed: Friday, September 17, 2021 10:50:04 Eastern Daylight Time

Name: 10-210913B06, Date: 13-Sep-2021, Time: 20:07:08, ID: H10-21-CS5-0123, Description: PBDEX-CS#5-003, Vial: Tray1:5

	Target Analyte	#Hom	Total Area	Ion1 Area	Ion2 Area	Ra	Ra Fail=YES	RT	RRT	RT LCL	RT UCL	Conc.	%Rec	Mod.Comment	Noise 1	Noise 2
38	BDE-154		3189123.2...	1829146	1359977	1.35	NO	14.13	1.00	14.10	14.17	517.64690	107.8		967	544
39	*BDE-153		1437474.8...	836834	600641	1.39	NO	14.87	1.00	14.84	14.91	534.44090	111.3		2730	3447
40	BDE-140		1802244.1...	1046522	755722	1.38	NO	15.33	1.01	15.29	15.36	550.98643	114.8		2730	3447
41	BDE-138/BDE-166		2101398.0...	1222725	878673	1.39	NO	15.87	1.07	15.83	15.90	1165.3420	121.4		2730	3447
42	BDE-156		764771.750	446892	317880	1.41	NO	16.20	1.09	16.17	16.24	656.07153	136.7		2730	3447
43	BDE-128		864191.625	499999	364192	1.37	NO	16.82	0.99	16.79	16.86	648.64846	135.1		2730	3447
44	*BDE-184		2178800.8...	1097001	1081800	1.01	NO	16.64	0.98	16.60	16.67	681.66587	113.6		550	1658
45	BDE-183		1428594.4...	712226	716368	0.99	NO	17.01	1.00	16.98	17.04	664.32204	110.7		550	1658
46	BDE-191		981601.594	497359	484243	1.03	NO	17.57	1.03	17.54	17.61	738.70519	123.1		550	1658
47	BDE-181		985741.719	498900	486842	1.02	NO	18.11	1.01	18.08	18.14	732.08696	122.0		550	1658
48	BDE-190		687366.562	353643	333724	1.06	NO	18.27	1.02	18.24	18.31	755.62558	125.9		550	1658
49	*PBB-180		1122785.9...	564845	557941	1.01	NO	17.10	0.96	17.07	17.14	563.97238	117.5		1173	788
50	*BDE-197		1134300.8...	509322	624979	0.81	NO	19.49	1.00	19.46	19.52	685.83597	114.3		1989	2993
51	BDE-203		899418.938	402296	497123	0.81	NO	19.77	1.01	19.73	19.80	747.40738	124.6		1989	2993
52	BDE-196		1129106.7...	507473	621634	0.82	NO	19.89	1.02	19.86	19.93	817.99873	136.3		1989	2993
53	*PBB-194		748719.375	422264	326455	1.29	NO	19.97	1.03	19.94	20.00	696.85507	145.2		488	719
54	*BDE-208		2928214.6...	1475347	1452867	1.02	NO	21.23	0.99	21.19	21.26	1516.3789	126.4		4002	3556
55	BDE-207		2992970.5...	1506274	1486696	1.01	NO	21.34	1.00	21.31	21.38	1337.8564	111.5		4002	3556
56	BDE-206		2234537.7...	1124012	1110526	1.01	NO	21.61	1.01	21.58	21.65	1321.7642	110.1		4002	3556
57	*PBB-206		1116389.438	567592	548798	1.03	NO	21.07	0.99	21.04	21.11	1455.4345	121.3		6056	2091
58	*PBB-209		1285056.5...	713181	571876	1.25	NO	21.97	1.03	21.93	22.00	1465.5668	122.1		6899	4051
59	*BDE-209		827233.501	461796	365438	1.26	NO	23.27	1.00	23.23	23.30	1400.9209	116.7		1213	1041
60	*DBDPE		988022.032	500104	487918	1.02	NO	24.66	1.00	24.63	24.69	2845.2253	118.6		544	741
61	13C12-BDE-3		2199507.0...	1080736	1118771	0.97	NO	5.10	0.48	5.07	5.14	49.757620	99.5		1342	1887
62	13C12-BDE-15		1214653.7...	401100	813554	0.49	NO	7.12	0.66	7.09	7.15	50.371306	100.7		2454	6126
63	13C12-BDE-28		565422.625	283951	281471	1.01	NO	8.67	0.81	8.64	8.71	51.496063	103.0		1051	834
64	13C6-HBB		379398.961	273224	106175	2.57	NO	10.00	0.93	9.96	10.03	48.004074	96.0		725	606
65	13C12-BDE-47		380944.890	233265	147680	1.58	NO	10.56	0.98	10.52	10.59	50.020550	100.0		2067	1781
66	13C12-BDE-77		408698.125	247920	160778	1.54	NO	11.31	1.06	11.28	11.35	50.934038	101.9		2067	1781
67	13C12-BDE-100		385466.860	194682	190785	1.02	NO	12.18	0.81	12.15	12.22	55.821733	111.6		1766	1905
68	13C12-BDE-99		232876.203	117711	115165	1.02	NO	12.69	0.84	12.66	12.73	57.515061	115.0		1766	1905
69	13C12-BDE-126		283966.844	144070	139897	1.03	NO	13.76	0.91	13.73	13.80	62.328563	124.7		1766	1905
70	13C12-BDE-154		336705.563	195888	140818	1.39	NO	14.13	0.93	14.10	14.17	60.350705	120.7		1051	620
71	13C12-BDE-153		116002.328	67877	48126	1.41	NO	14.87	0.98	14.84	14.91	61.479315	123.0		1721	1510
72	13C12-BDE-183		143968.234	73162	70806	1.03	NO	17.00	0.95	16.97	17.03	59.182658	118.4		571	814
73	13C12-BDE-197		210248.953	94241	116008	0.81	NO	19.48	1.09	19.44	19.51	112.00973	112.0		477	801
74	13C12-BDE-207		615067.876	308359	306709	1.01	NO	21.34	0.99	21.31	21.38	260.51513	104.2		1929	1675

Quantify Sample Summary Report **MassLynx MassLynx V4.1 SCN 901**

Dataset: I:\Organics Instrument\HIGHRES GCMS Completed Results Files\HR-10\2021\2109\10-210913B-ICAL-PBDE.qld

Last Altered: Tuesday, September 14, 2021 11:07:06 Eastern Daylight Time
Printed: Friday, September 17, 2021 10:50:04 Eastern Daylight Time

Name: 10-210913B06, Date: 13-Sep-2021, Time: 20:07:08, ID: H10-21-CS5-0123, Description: PBDEX-CS#5-003, Vial: Tray1:5

	Target Analyte	#Hom	Total Area	Ion1 Area	Ion2 Area	Ra	Ra Fail=YES	RT	RRT	RT LCL	RT UCL	Conc.	%Rec	Mod.Comment	Noise 1	Noise 2
75	13C12-BDE-209		152889.211	86752	66138	1.31	NO	23.26	1.08	23.22	23.29	251.17352	100.5		1180	1191
76	13C14-DBDPE		194937.383	98520	96418	1.02	NO	24.65	1.14	24.61	24.68	429.24689	85.8		711	1235
77	13C12-BDE-138 (CL)		99425.918	58754	40672	1.44	NO	15.82	1.05	15.79	15.85	62.579272	125.2		1721	1510
78	13C12-BDE-79 (IS)		437265.969	266257	171009	1.56	NO	10.72	0.71	10.68	10.75	50.122797	100.2		2067	1781
79	13C12-BDE-139 (IS)		110961.828	65910	45052	1.46	NO	15.13	0.00	15.10	15.16	44.030801	88.1		1721	1510
80	13C12-BDE-180 (IS)		57547.713	28976	28572	1.01	NO	17.86	1.18	17.83	17.90	48.965989	97.9		571	814
81	13C12-BDE-206 (IS)		444444.594	223289	221155	1.01	NO	21.61	1.43	21.58	21.65	307.83339	123.1		1929	1675
82	Total MoF1	3		10219536								729.91697			30547	
83	Total DiF2	5		9132775								1810.2171			1483	
84	Total TriF3	6		8759218								2080.3843			1614	
85	Total PBEBF3	1		1341010								277.41949			486	
86	Total TePBBF3	1		1622498								280.88891			910	
87	Total HBBF4	1		599703								258.63824			591	
88	Total TetraF4	8		5058240								2151.6014			1069	
89	Total PePBBF4	1		2353910								547.49933			877	
90	Total PentaF5	9		6600486								4208.5349			6257	
91	Total PBB-153	1		1804774								536.92172			733	
92	Total HexaF5	2		4002185								1036.6815			967	
93	Total HexaF6	5		4052972								3555.4894			2730	
94	Total HeptaF6	5		3159129								3572.4056			550	
95	Total PBB-180	1		564845								563.97238			1173	
96	Total OctaF7	3		1419090								2251.2421			1989	
97	Total PBB-194	1		422264								696.85507			488	
98	Total NonaF8	3		4105633								4175.9996			4002	
99	Total PBB-206	1		567592								1455.4345			6056	
100	Total PBB-209	1		713181								1465.5668			6899	
101	Total DecaF9	1		461796								1400.9209			1213	
102	Total DBDPEF10															
103	Total 13CMoF1	1		1080736								49.757620			1342	
104	Total 13CDiF2	1		401100								50.371306			2454	
105	Total 13CTriF3	1		283951								51.496063			1051	
106	Total 13CHBBF4	1		273224								48.004074			725	
107	Total 13CTetraF4	3		747443								151.07739			2067	
108	Total 13CPentaF5	3		456463								175.66536			1766	
109	Total 13CHexaF5	1		195888								60.350705			1051	
110	Total 13CHexaF6	3		192540								168.08939			1721	
111	Total 13CHeptaF6	2		102138								108.14865			571	

Quantify Sample Summary Report **MassLynx MassLynx V4.1 SCN 901**

Dataset: I:\Organics Instrument\HIGHRES GCMS Completed Results Files\HR-10\2021\2109\10-210913B-ICAL-PBDE.qld

Last Altered: Tuesday, September 14, 2021 11:07:06 Eastern Daylight Time
Printed: Friday, September 17, 2021 10:50:04 Eastern Daylight Time

Name: 10-210913B06, Date: 13-Sep-2021, Time: 20:07:08, ID: H10-21-CS5-0123, Description: PBDEX-CS#5-003, Vial: Tray1:5

	Target Analyte	#Hom	Total Area	Ion1 Area	Ion2 Area	Ra	Ra Fail=YES	RT	RRT	RT LCL	RT UCL	Conc.	%Rec	Mod.Comment	Noise 1	Noise 2
112	Total 13COctaF7	1		94241								112.00973			477	
113	Total 13CNonaF8	2		531649								568.34852			1929	
114	Total 13CDecaF9	1		86752								251.17352			1180	
115	Total 13CDBDPEF10															
116	Lockmass F1			0											218633	
117	Lockmass F2			0											566826	
118	Lockmass F3			0											373559	
119	Lockmass F4			0											83057	
120	Lockmass F5			0											61381	
121	Lockmass F6			0											27239	
122	Lockmass F7			0											16845	
123	Lockmass F8			0											16594	
124	Lockmass F9			0											20571	
125	Lockmass F10															

Quantify Audit Report MassLynx MassLynx V4.1 SCN 901

Dataset: I:\Organics Instrument\HIGHRES GCMS Completed Results Files\HR-10\2021\2109\10-210913B-ICAL-PBDE.qld

Last Altered: Tuesday, September 14, 2021 11:07:06 Eastern Daylight Time
Printed: Friday, September 17, 2021 10:50:04 Eastern Daylight Time

Date	Time	Event	Details	Comments
14-Sep-21	10:56:53	Process Extract		
14-Sep-21	10:56:54	Process Integrate		
14-Sep-21	10:56:54	Process Calibrate		
14-Sep-21	10:56:54	Process Quantify		
14-Sep-21	10:56:59	Dataset Created		
14-Sep-21	10:57:33	Pre modification peak	Sample:10-210913B05, Compound:TetraF4, RT:11.326	
14-Sep-21	10:57:33	Peak modified	Sample:10-210913B05, Compound:TetraF4, RT:11.326	
14-Sep-21	10:57:33	Pre modification peak	Sample:10-210913B05, Compound:TetraF4, RT:11.326	
14-Sep-21	10:57:33	Peak modified	Sample:10-210913B05, Compound:TetraF4, RT:11.326	
14-Sep-21	10:58:34	Pre modification peak	Sample:10-210913B05, Compound:HexaF6, RT:16.205	
14-Sep-21	10:58:34	Peak modified	Sample:10-210913B05, Compound:HexaF6, RT:16.205	EG210914MB
14-Sep-21	10:58:34	Pre modification peak	Sample:10-210913B05, Compound:HexaF6, RT:16.205	
14-Sep-21	10:58:34	Peak modified	Sample:10-210913B05, Compound:HexaF6, RT:16.205	EG210914MB
14-Sep-21	10:58:34	Pre modification peak	Sample:10-210913B05, Compound:HexaF6, RT:15.866	
14-Sep-21	10:58:34	Peak modified	Sample:10-210913B05, Compound:HexaF6, RT:15.866	EG210914MB
14-Sep-21	10:59:20	Pre modification peak	Sample:10-210913B05, Compound:HeptaF6, RT:18.262	
14-Sep-21	10:59:20	Peak modified	Sample:10-210913B05, Compound:HeptaF6, RT:18.262	EG210914MB
14-Sep-21	10:59:20	Pre modification peak	Sample:10-210913B05, Compound:HeptaF6, RT:16.637	
14-Sep-21	10:59:20	Peak modified	Sample:10-210913B05, Compound:HeptaF6, RT:16.637	EG210914MB
14-Sep-21	10:59:53	Pre modification peak	Sample:10-210913B05, Compound:PBB180F6, RT:17.105	
14-Sep-21	10:59:53	Peak modified	Sample:10-210913B05, Compound:PBB180F6, RT:17.105	EG210914MB
14-Sep-21	10:59:53	Pre modification peak	Sample:10-210913B05, Compound:PBB180F6, RT:17.105	
14-Sep-21	10:59:53	Peak modified	Sample:10-210913B05, Compound:PBB180F6, RT:17.105	EG210914MB
14-Sep-21	11:00:30	Method modified		
14-Sep-21	11:00:39	Process Quantify		
14-Sep-21	11:02:08	Method modified		
14-Sep-21	11:02:19	Process Quantify		
14-Sep-21	11:02:44	Pre modification peak	Sample:10-210913B05, Compound:DecaF9, RT:23.267	
14-Sep-21	11:02:44	Peak modified	Sample:10-210913B05, Compound:DecaF9, RT:23.267	EG210914MB
14-Sep-21	11:02:44	Pre modification peak	Sample:10-210913B05, Compound:DecaF9, RT:23.267	
14-Sep-21	11:02:44	Peak modified	Sample:10-210913B05, Compound:DecaF9, RT:23.267	EG210914MB
14-Sep-21	11:03:15	Pre modification peak	Sample:10-210913B05, Compound:NonaF8, RT:21.614	
14-Sep-21	11:03:15	Peak modified	Sample:10-210913B05, Compound:NonaF8, RT:21.614	EG210914MB
14-Sep-21	11:03:15	Pre modification peak	Sample:10-210913B05, Compound:NonaF8, RT:21.343	
14-Sep-21	11:03:15	Peak modified	Sample:10-210913B05, Compound:NonaF8, RT:21.343	EG210914MB
14-Sep-21	11:03:15	Pre modification peak	Sample:10-210913B05, Compound:NonaF8, RT:21.225	
14-Sep-21	11:03:15	Peak modified	Sample:10-210913B05, Compound:NonaF8, RT:21.225	EG210914MB
14-Sep-21	11:03:15	Pre modification peak	Sample:10-210913B05, Compound:NonaF8, RT:21.614	
14-Sep-21	11:03:15	Peak modified	Sample:10-210913B05, Compound:NonaF8, RT:21.614	EG210914MB
14-Sep-21	11:04:48	Pre modification peak	Sample:10-210913B04, Compound:HexaF6, RT:15.842	
14-Sep-21	11:04:48	Peak modified	Sample:10-210913B04, Compound:HexaF6, RT:15.842	EG210914MJ
14-Sep-21	11:04:48	Pre modification peak	Sample:10-210913B04, Compound:HexaF6, RT:14.743	
14-Sep-21	11:04:48	Peak modified	Sample:10-210913B04, Compound:HexaF6, RT:14.743	EG210914MJ
14-Sep-21	11:05:44	Pre modification peak	Sample:10-210913B04, Compound:HexaF6, RT:16.836	
14-Sep-21	11:05:44	Peak modified	Sample:10-210913B04, Compound:HexaF6, RT:16.836	EG210914MB
14-Sep-21	11:05:44	Pre modification peak	Sample:10-210913B04, Compound:HexaF6, RT:16.205	
14-Sep-21	11:05:44	Peak modified	Sample:10-210913B04, Compound:HexaF6, RT:16.205	EG210914MB
14-Sep-21	11:05:44	Pre modification peak	Sample:10-210913B04, Compound:HexaF6, RT:15.866	
14-Sep-21	11:05:44	Peak modified	Sample:10-210913B04, Compound:HexaF6, RT:15.866	EG210914MB
14-Sep-21	11:06:58	Method modified		
14-Sep-21	11:07:06	Process Calibrate		
14-Sep-21	11:07:06	Process Quantify		
14-Sep-21	11:07:59	Dataset Saved	Saved to 'I:\Organics Instrument\HIGHRES GCMS Complete...	

Quantify Audit Report MassLynx MassLynx V4.1 SCN 901

Dataset: I:\Organics Instrument\HIGHRES GCMS Completed Results Files\HR-10\2021\2109\10-210913B-ICAL-PBDE.qld

Last Altered: Tuesday, September 14, 2021 11:07:06 Eastern Daylight Time
Printed: Friday, September 17, 2021 10:50:04 Eastern Daylight Time

Date	Time	Event	Details	Comments
14-Sep-21	11:09:40	Calibration Saved	Saved to 'C:\MassLynx\PBDE.PRO\CurveDB\10-210913B-IC...	
14-Sep-21	11:10:04	Method Saved	Saved to 'C:\MassLynx\PBDE.PRO\MethDB\PBDEX-DB5-1-2...	
14-Sep-21	11:10:36	Dataset Saved	Saved to 'I:\Organics Instrument\HIGHRES GCMS Complete...	

Quantify Sample Template Report **MassLynx MassLynx V4.1 SCN 901**

Dataset: I:\Organics Instrument\HIGHRES GCMS Completed Results Files\HR-10\2021\2109\10-210913B-ICAL-PBDE.qld

Last Altered: Tuesday, September 14, 2021 11:07:06 Eastern Daylight Time
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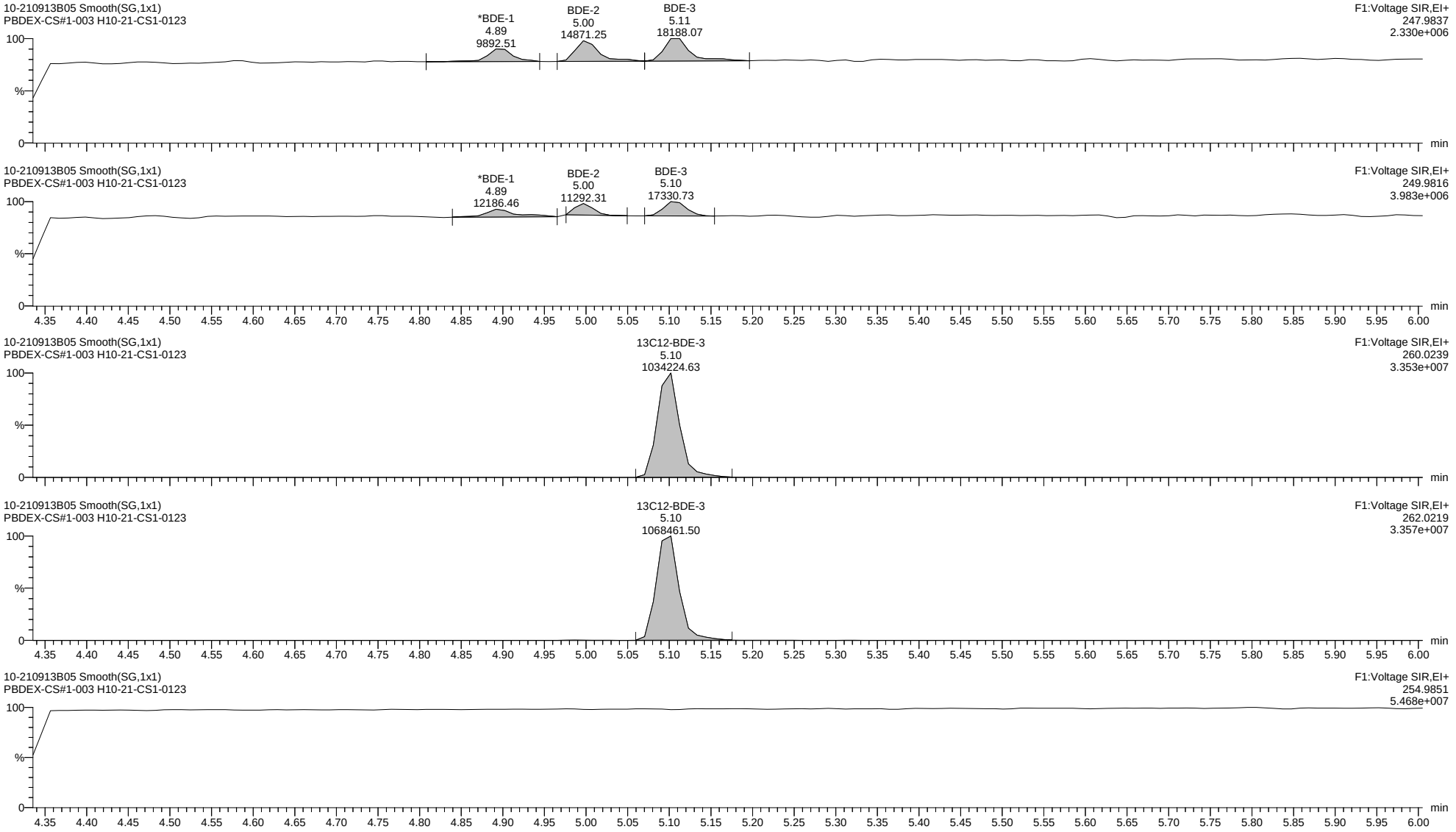
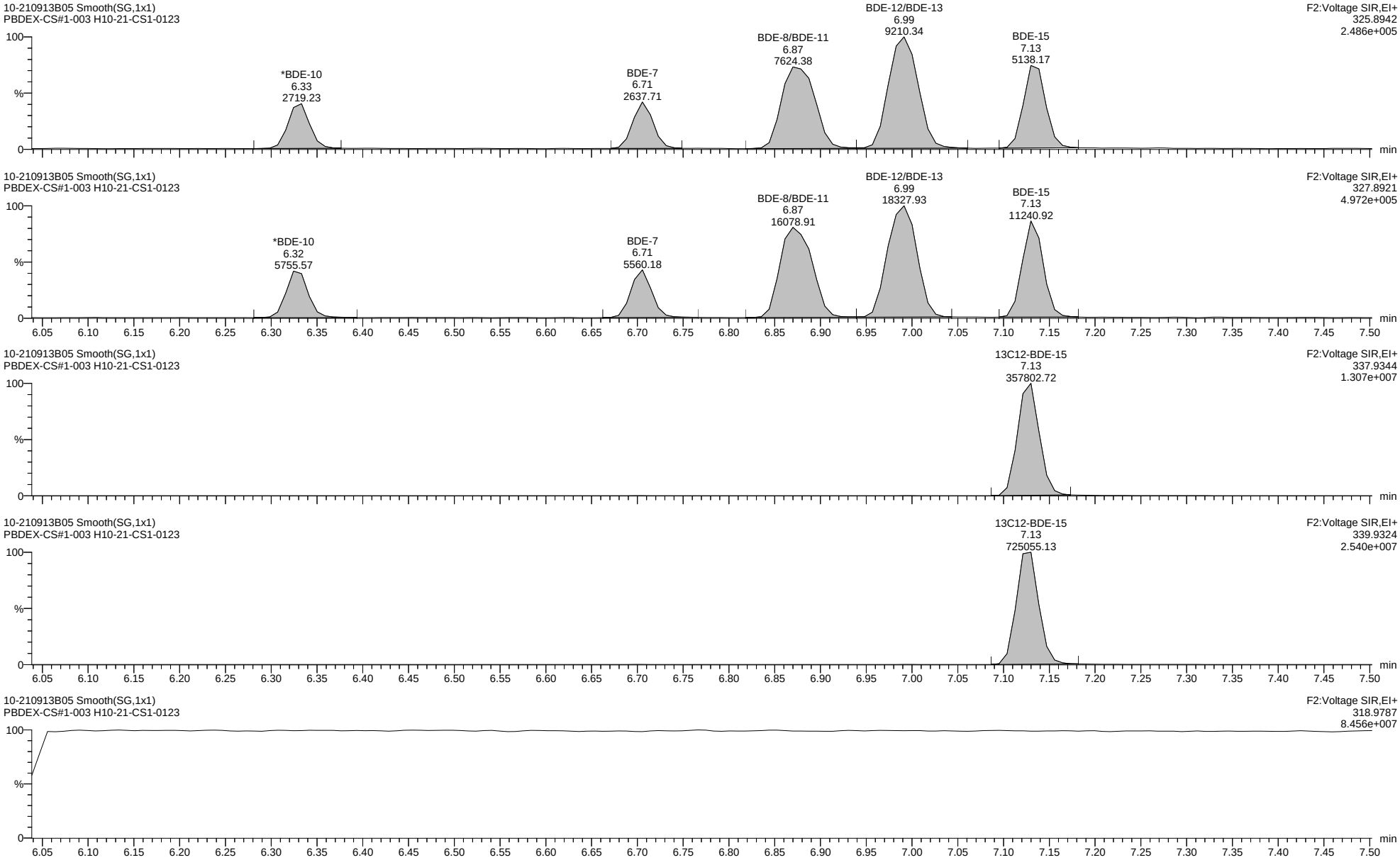
Method: C:\MassLynx\PBDE.PRO\MethDB\PBDEX-DB5-1-210913B.mdb 14 Sep 2021 10:56:36
Calibration: C:\MassLynx\PBDE.PRO\CurveDB\10-210913B-ICAL-PBDE.cdb 14 Sep 2021 11:07:06

Name: 10-210913B05, Date: 13-Sep-2021, Time: 19:32:22, ID: H10-21-CS1-0123, Description: PBDEX-CS#1-003, Vial: Tray1:2



Name: 10-210913B05, Date: 13-Sep-2021, Time: 19:32:22, ID: H10-21-CS1-0123, Description: PBDEX-CS#1-003, Vial: Tray1:2



Dataset: I:\Organics Instrument\HIGHRES GCMS Completed Results Files\HR-10\2021\2109\10-210913B-ICAL-PBDE.qld

Last Altered: Tuesday, September 14, 2021 11:07:06 Eastern Daylight Time
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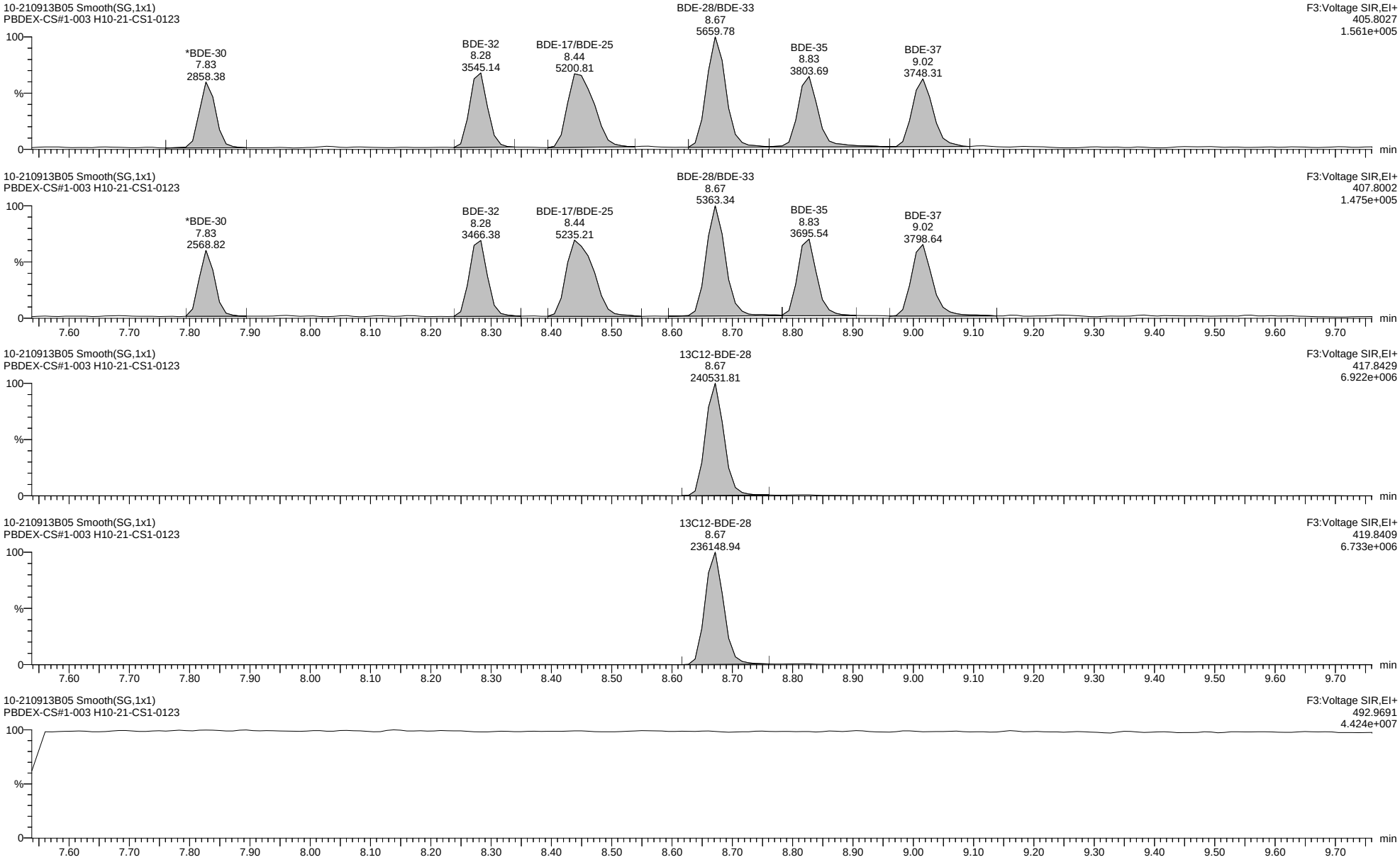
Name: 10-210913B05, Date: 13-Sep-2021, Time: 19:32:22, ID: H10-21-CS1-0123, Description: PBDEX-CS#1-003, Vial: Tray1:2



Quantify Sample Template Report **MassLynx MassLynx V4.1 SCN 901**

Dataset: I:\Organics Instrument\HIGHRES GCMS Completed Results Files\HR-10\2021\2109\10-210913B-ICAL-PBDE.qld

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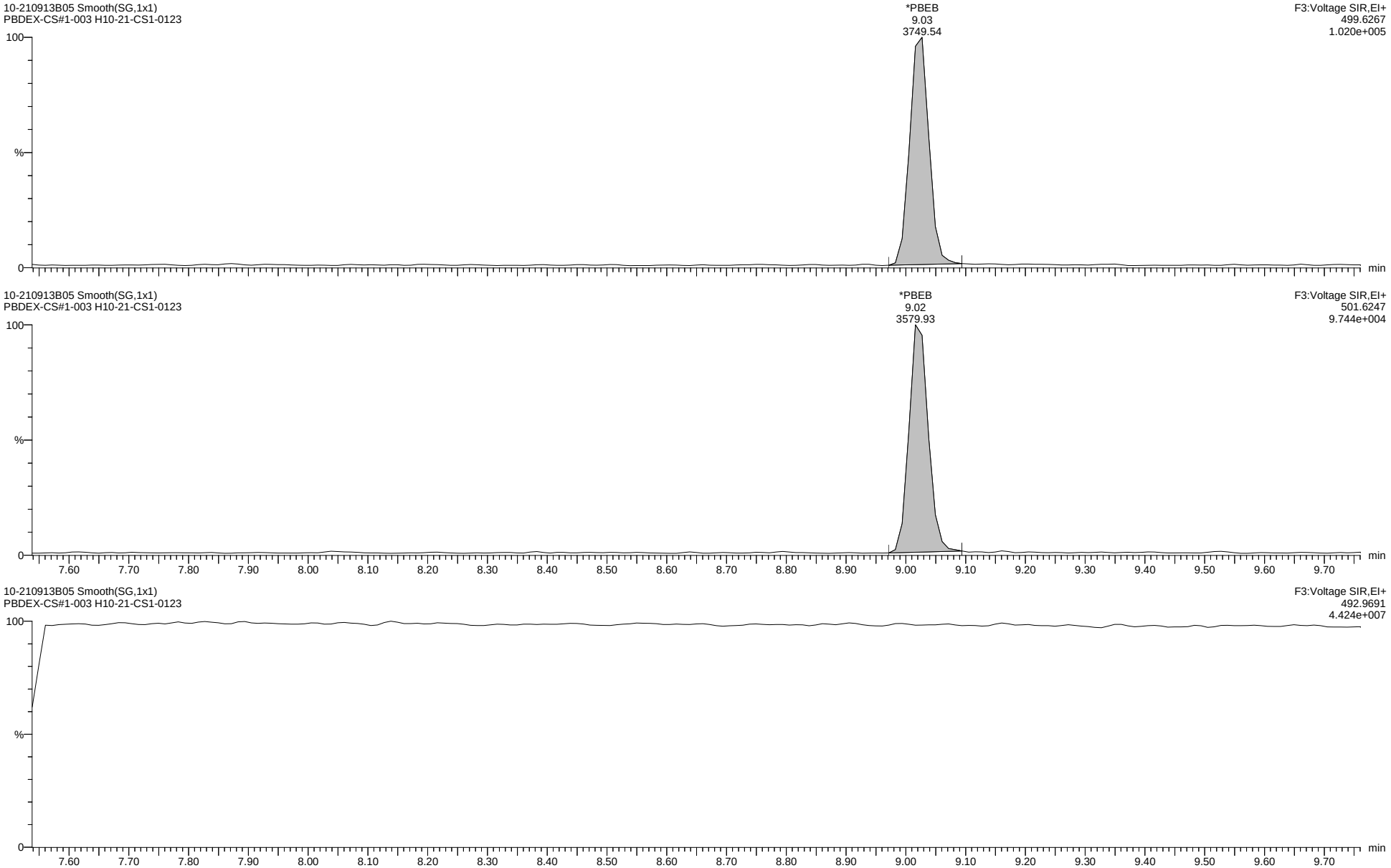
Name: 10-210913B05, Date: 13-Sep-2021, Time: 19:32:22, ID: H10-21-CS1-0123, Description: PBDEX-CS#1-003, Vial: Tray1:2



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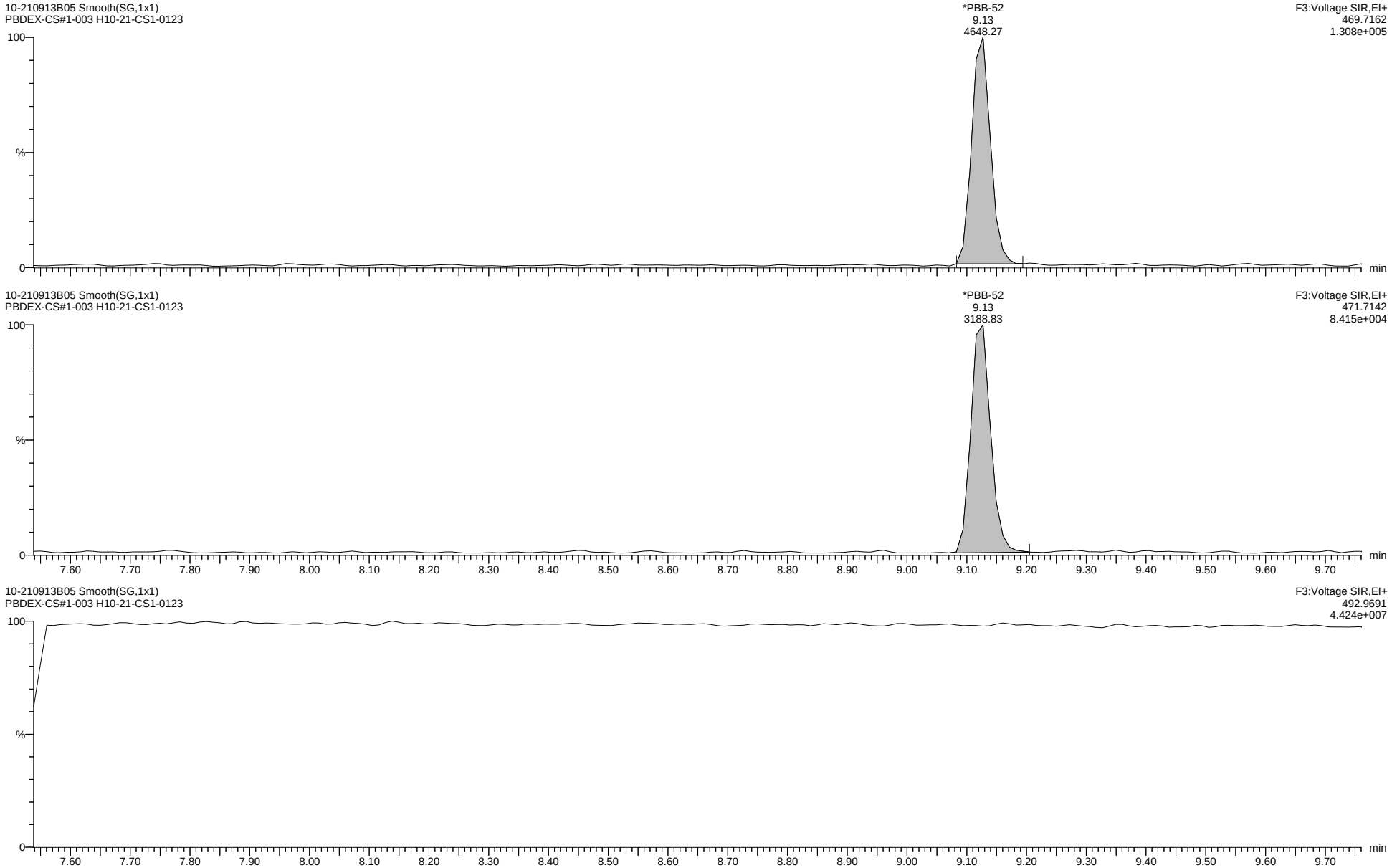

Dataset: I:\Organics Instrument\HIGHRES GCMS Completed Results Files\HR-10\2021\2109\10-210913B-ICAL-PBDE.qld

Last Altered: Tuesday, September 14, 2021 11:07:06 Eastern Daylight Time
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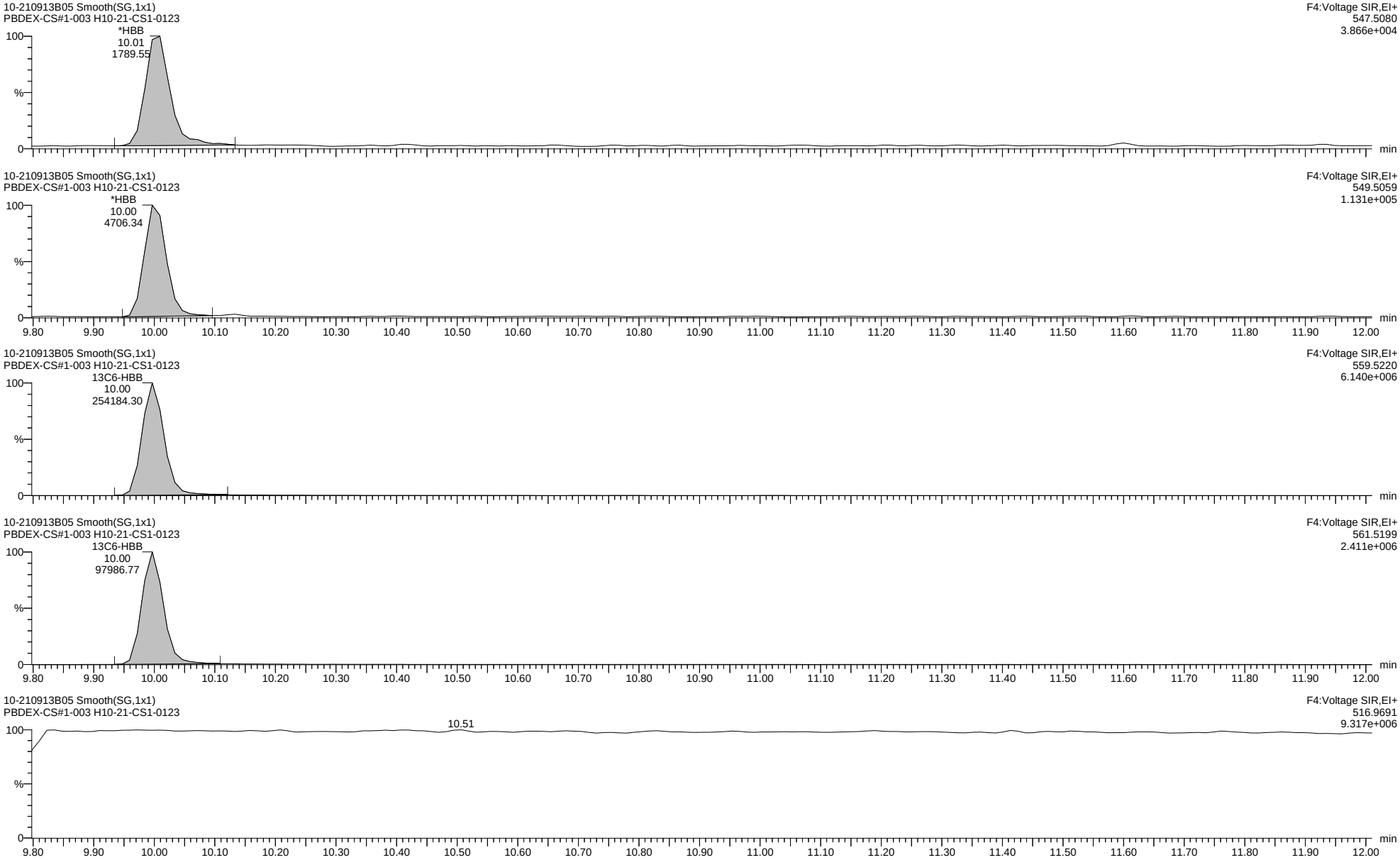
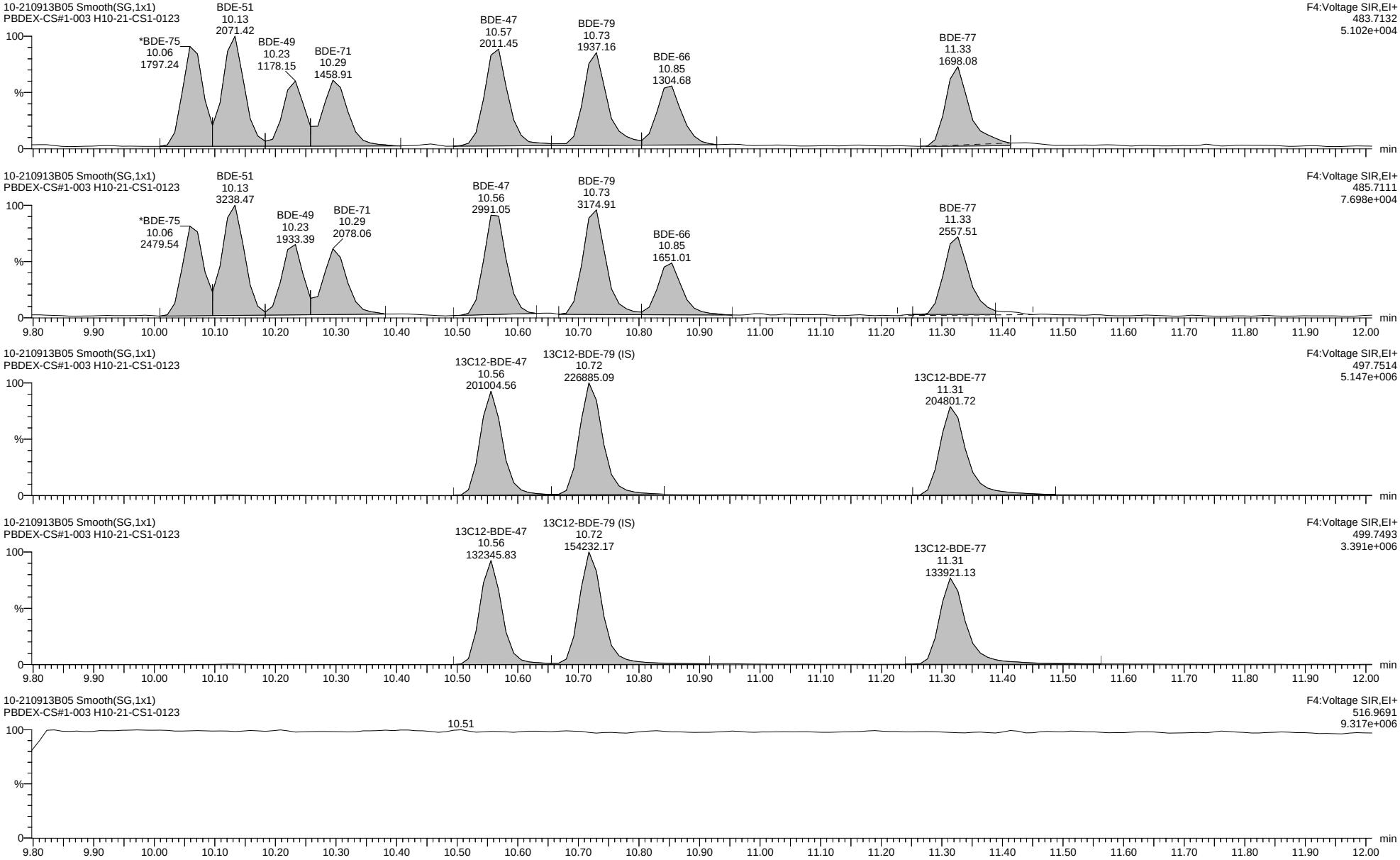
Name: 10-210913B05, Date: 13-Sep-2021, Time: 19:32:22, ID: H10-21-CS1-0123, Description: PBDEX-CS#1-003, Vial: Tray1:2



Name: 10-210913B05, Date: 13-Sep-2021, Time: 19:32:22, ID: H10-21-CS1-0123, Description: PBDEX-CS#1-003, Vial: Tray1:2



Quantify Sample Template Report **MassLynx MassLynx V4.1 SCN 901**

Dataset: I:\Organics Instrument\HIGHRES GCMS Completed Results Files\HR-10\2021\2109\10-210913B-ICAL-PBDE.qld

Last Altered: Tuesday, September 14, 2021 11:07:06 Eastern Daylight Time
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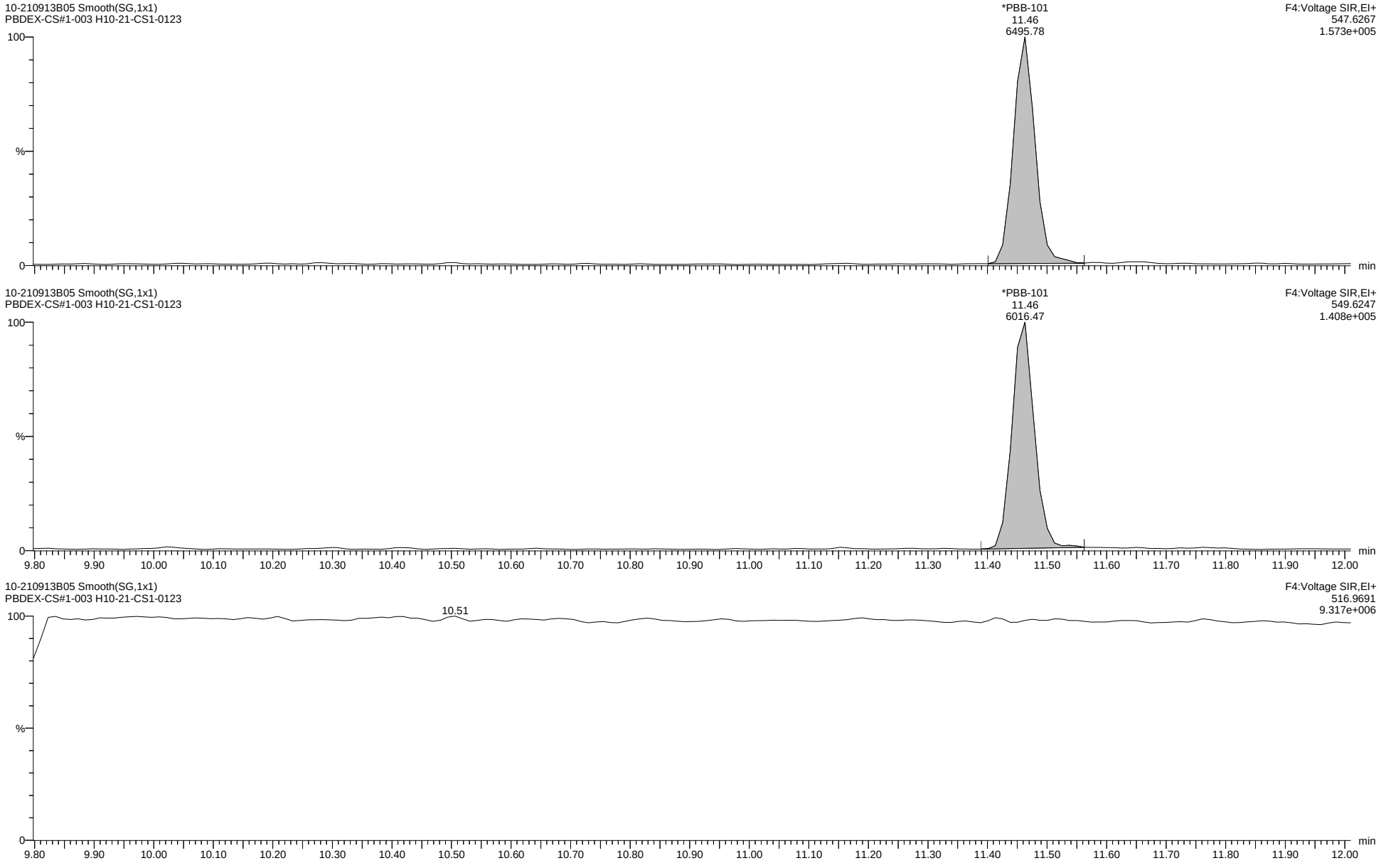
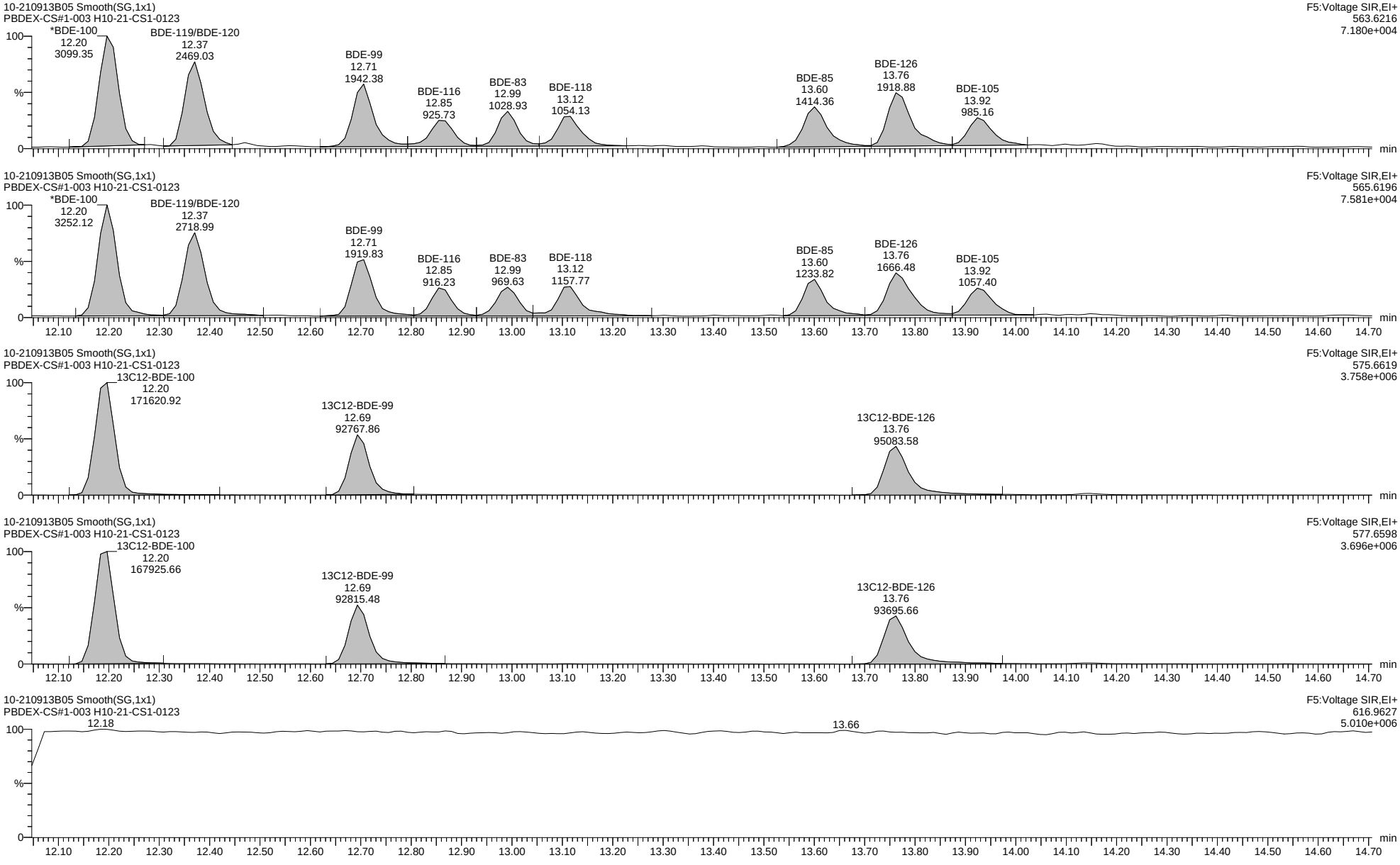
Name: 10-210913B05, Date: 13-Sep-2021, Time: 19:32:22, ID: H10-21-CS1-0123, Description: PBDEX-CS#1-003, Vial: Tray1:2



Name: 10-210913B05, Date: 13-Sep-2021, Time: 19:32:22, ID: H10-21-CS1-0123, Description: PBDEX-CS#1-003, Vial: Tray1:2



Quantify Sample Template Report **MassLynx MassLynx V4.1 SCN 901**

Dataset: I:\Organics Instrument\HIGHRES GCMS Completed Results Files\HR-10\2021\2109\10-210913B-ICAL-PBDE.qld

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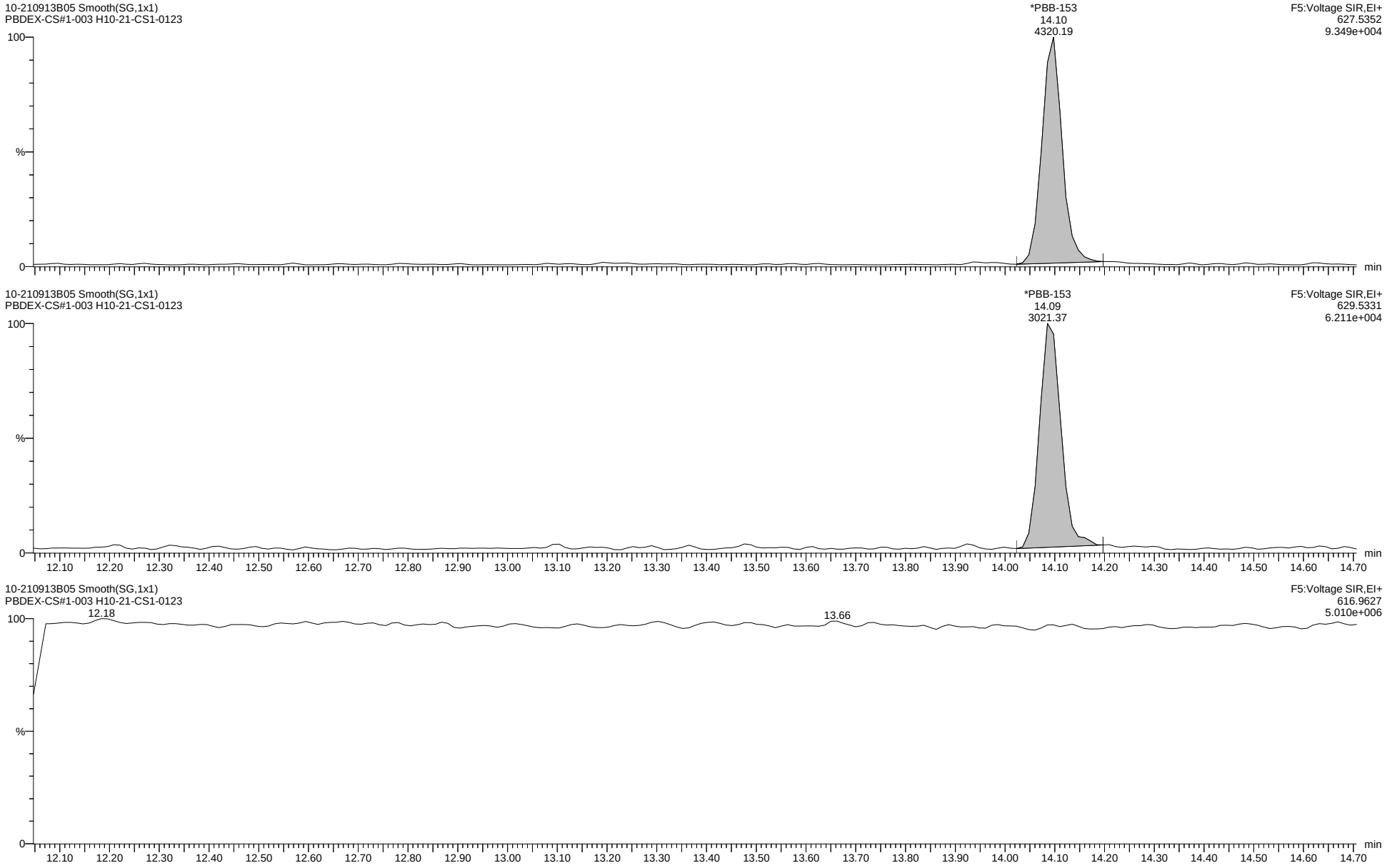
Name: 10-210913B05, Date: 13-Sep-2021, Time: 19:32:22, ID: H10-21-CS1-0123, Description: PBDEX-CS#1-003, Vial: Tray1:2



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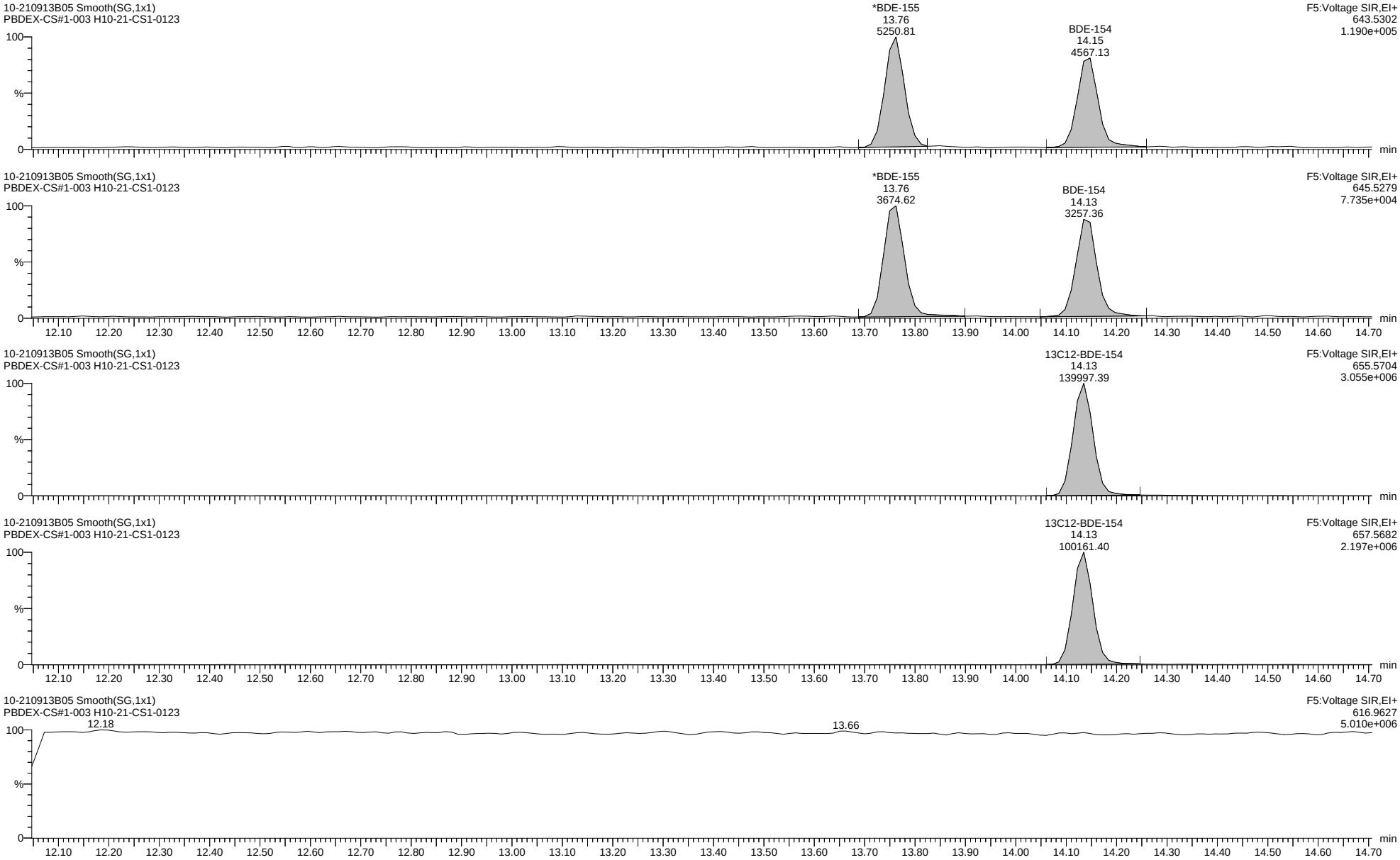

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Last Altered: Tuesday, September 14, 2021 11:07:06 Eastern Daylight Time
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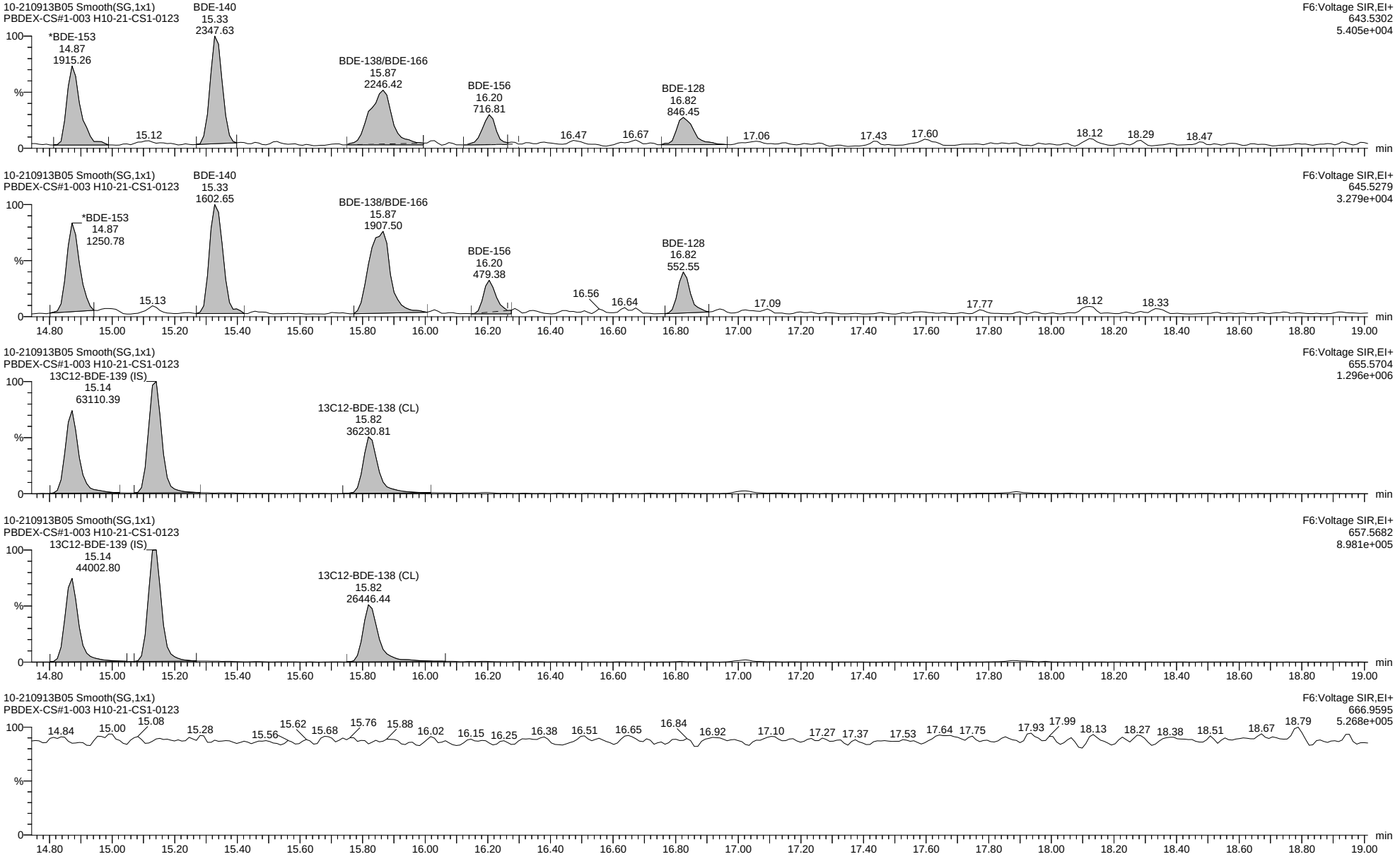
Name: 10-210913B05, Date: 13-Sep-2021, Time: 19:32:22, ID: H10-21-CS1-0123, Description: PBDEX-CS#1-003, Vial: Tray1:2



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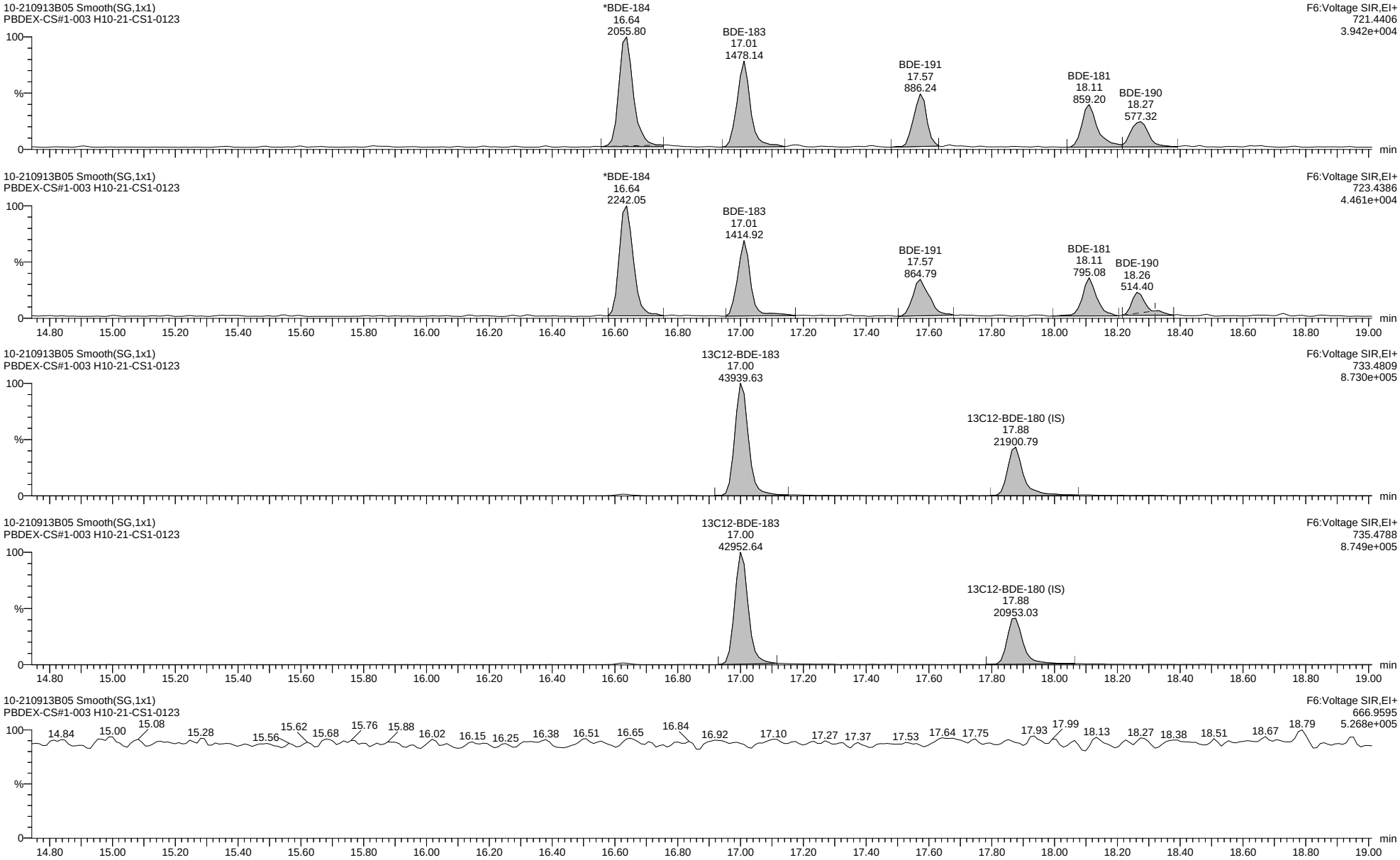

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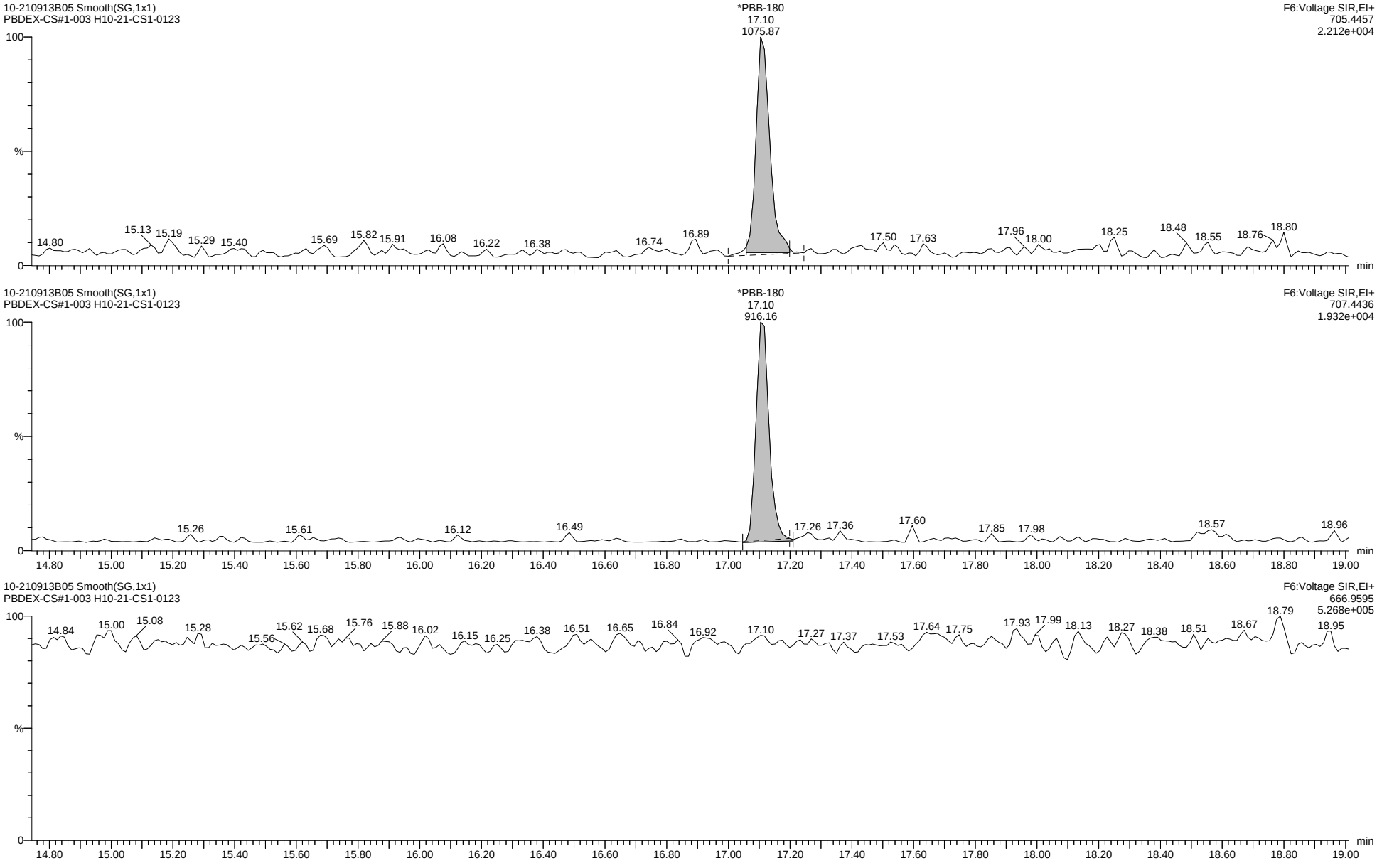

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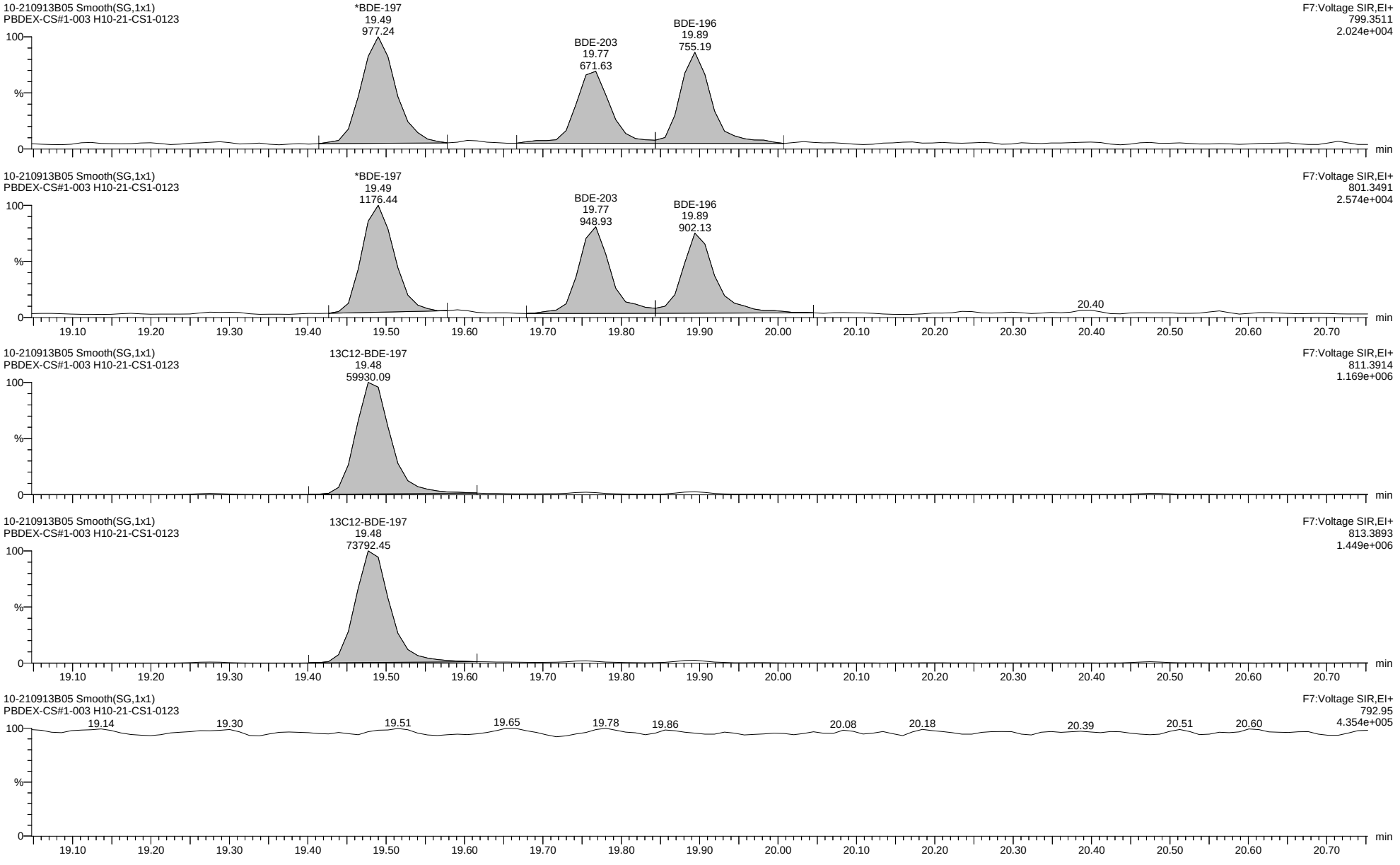

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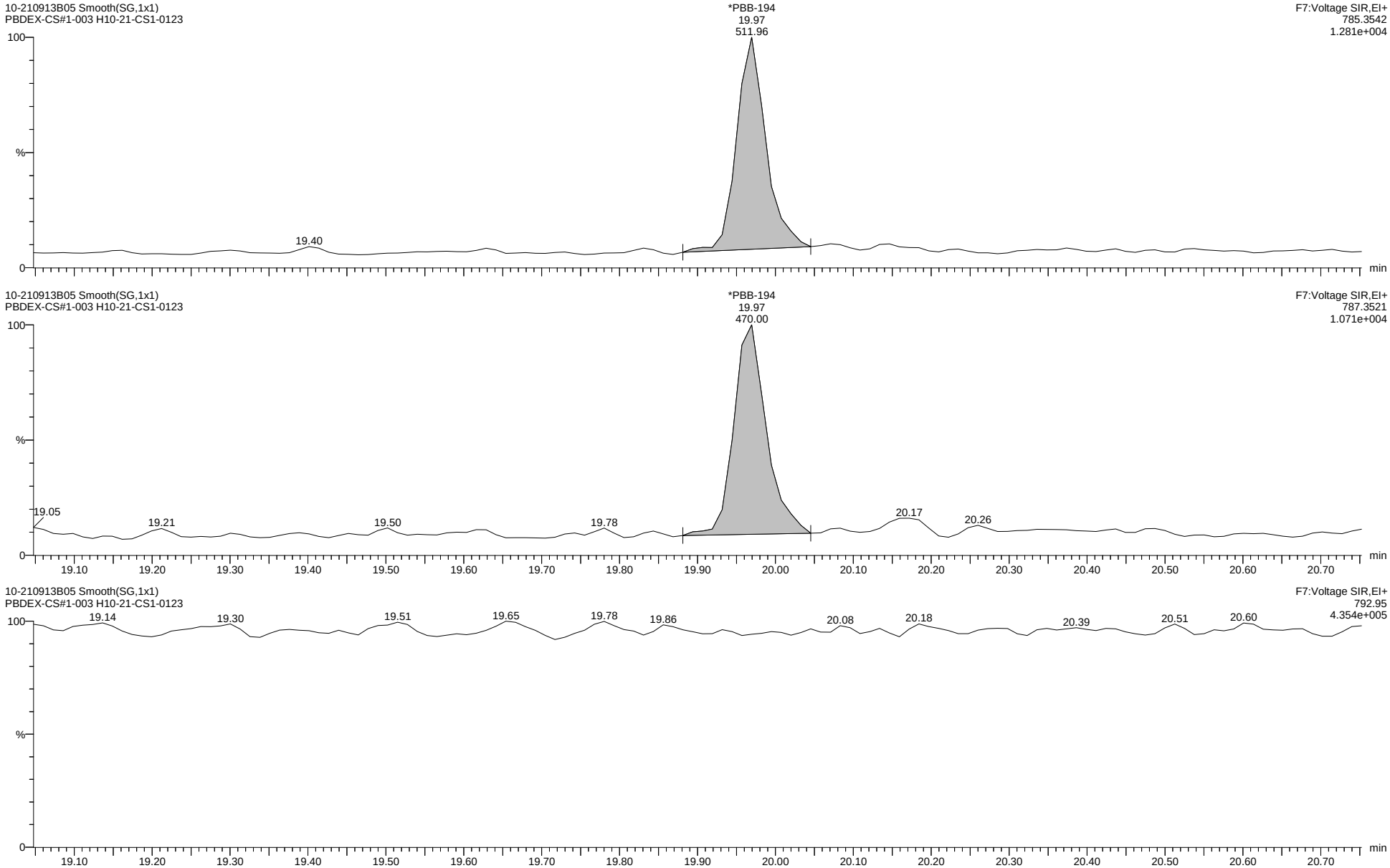

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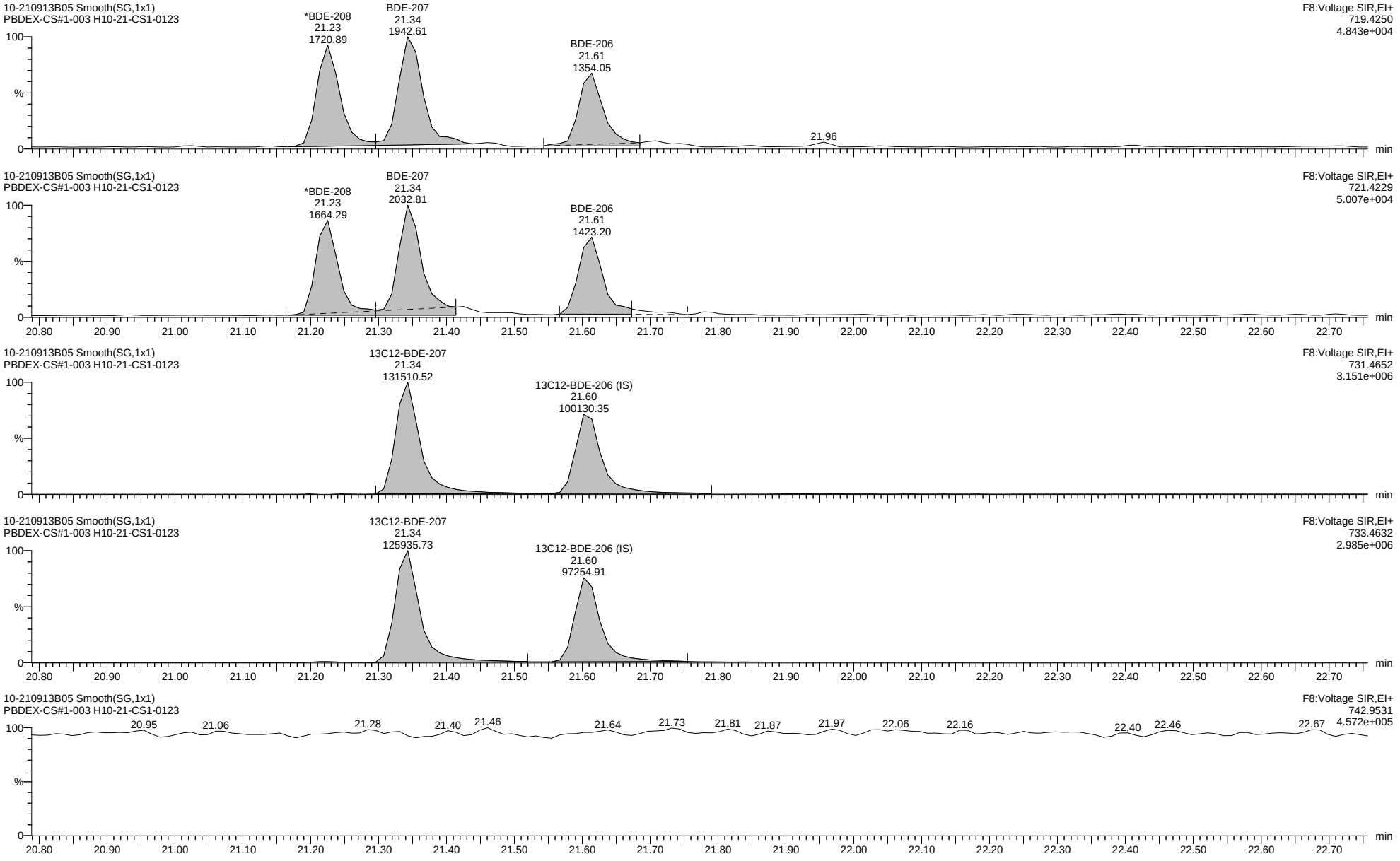

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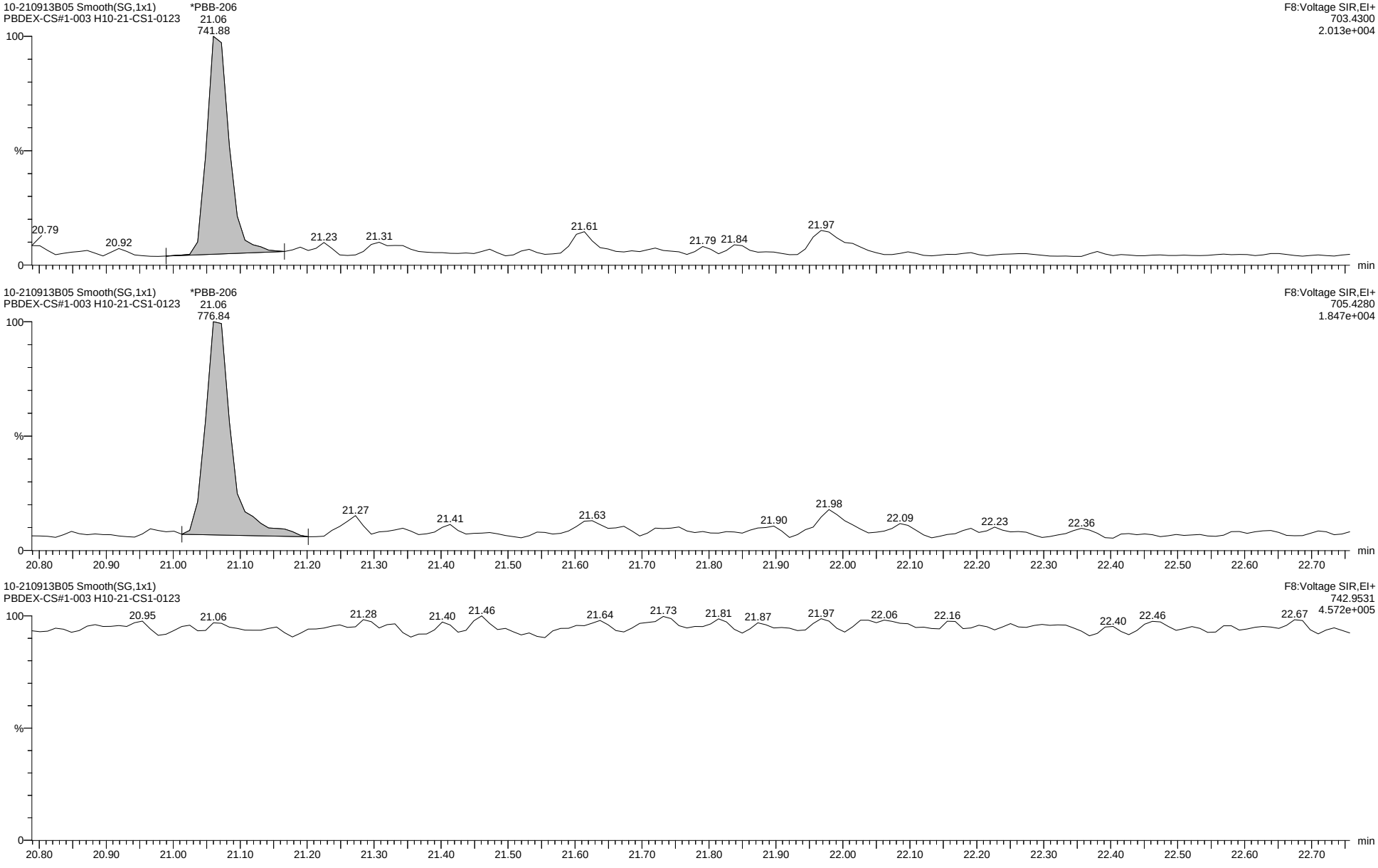

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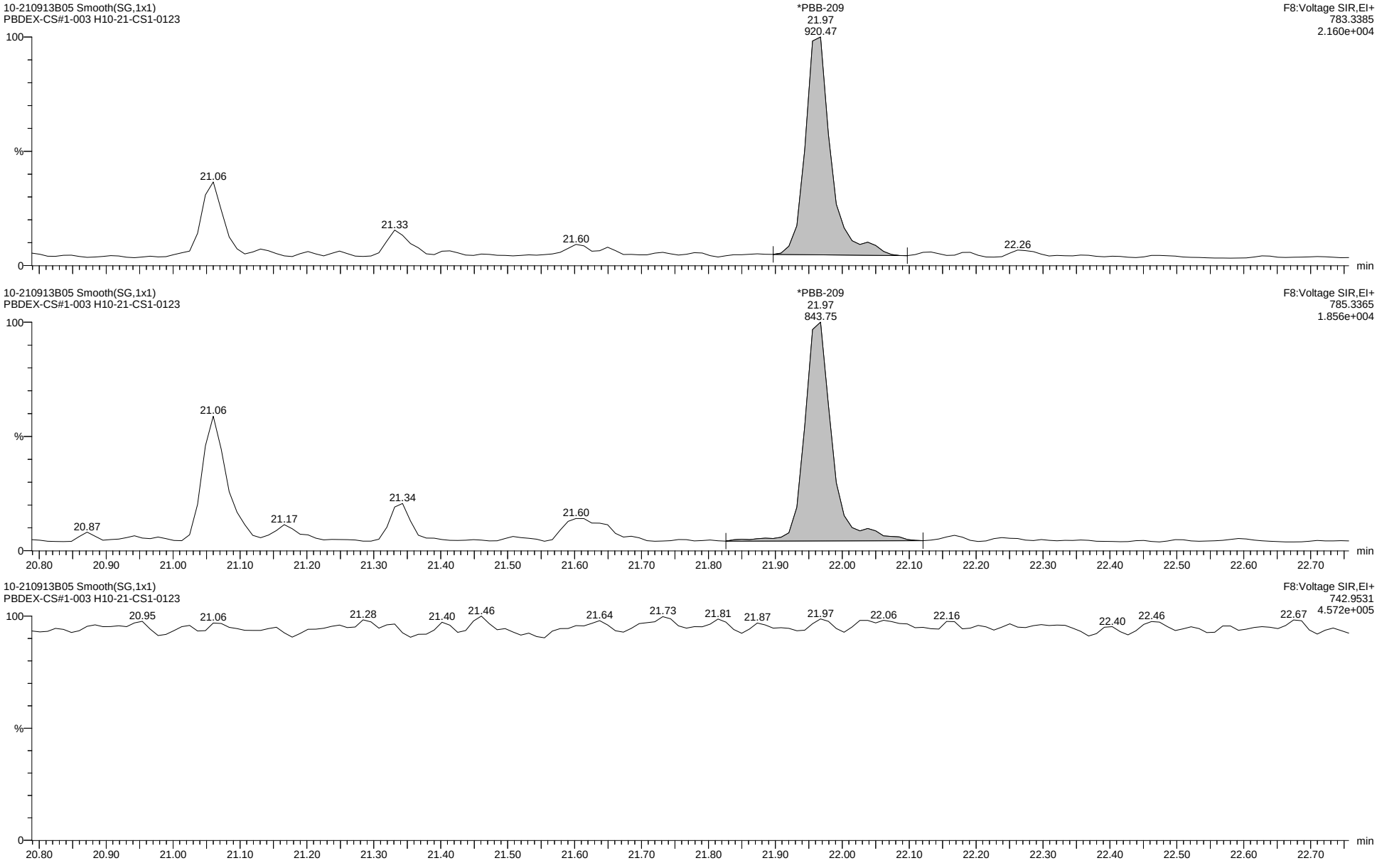

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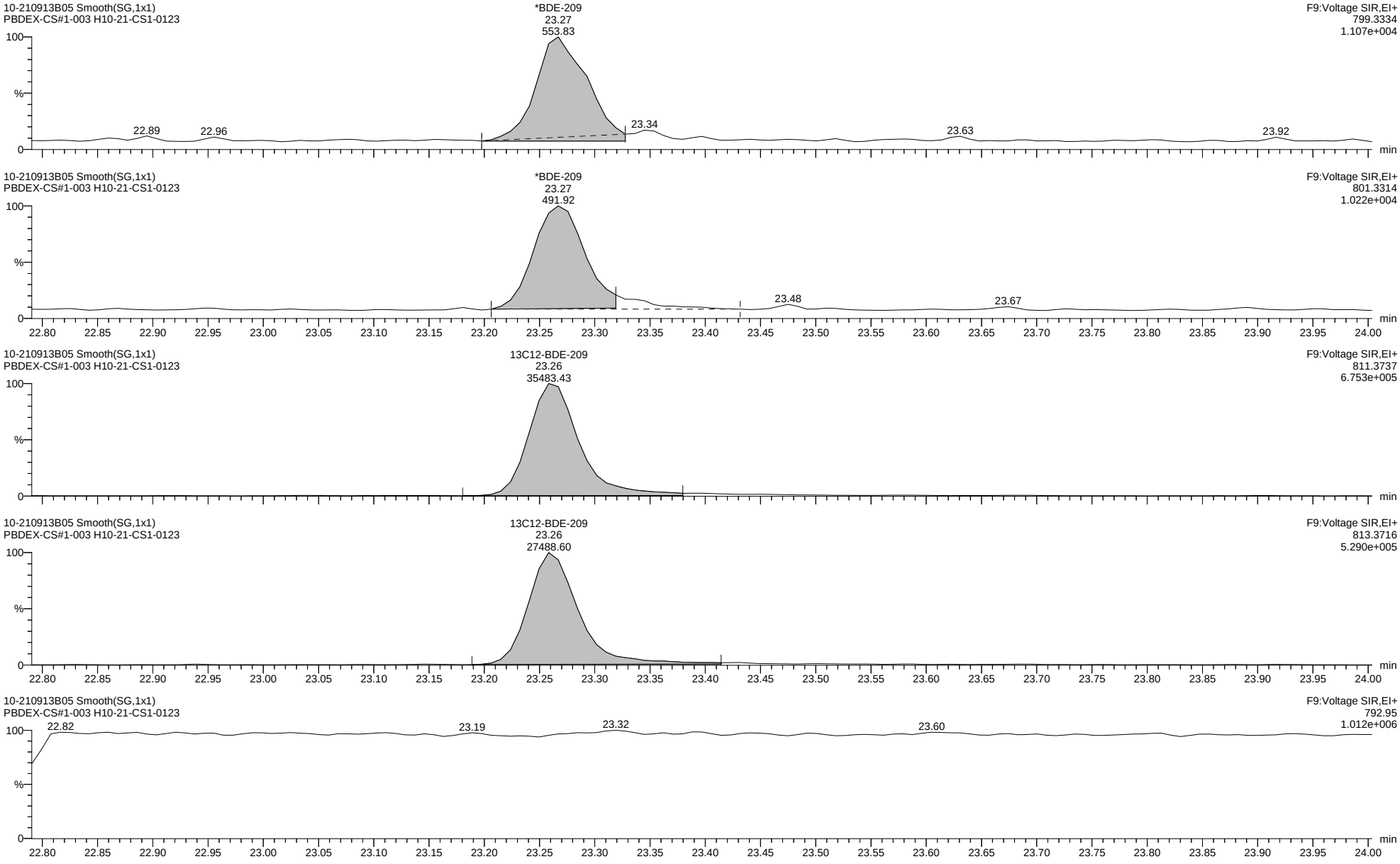

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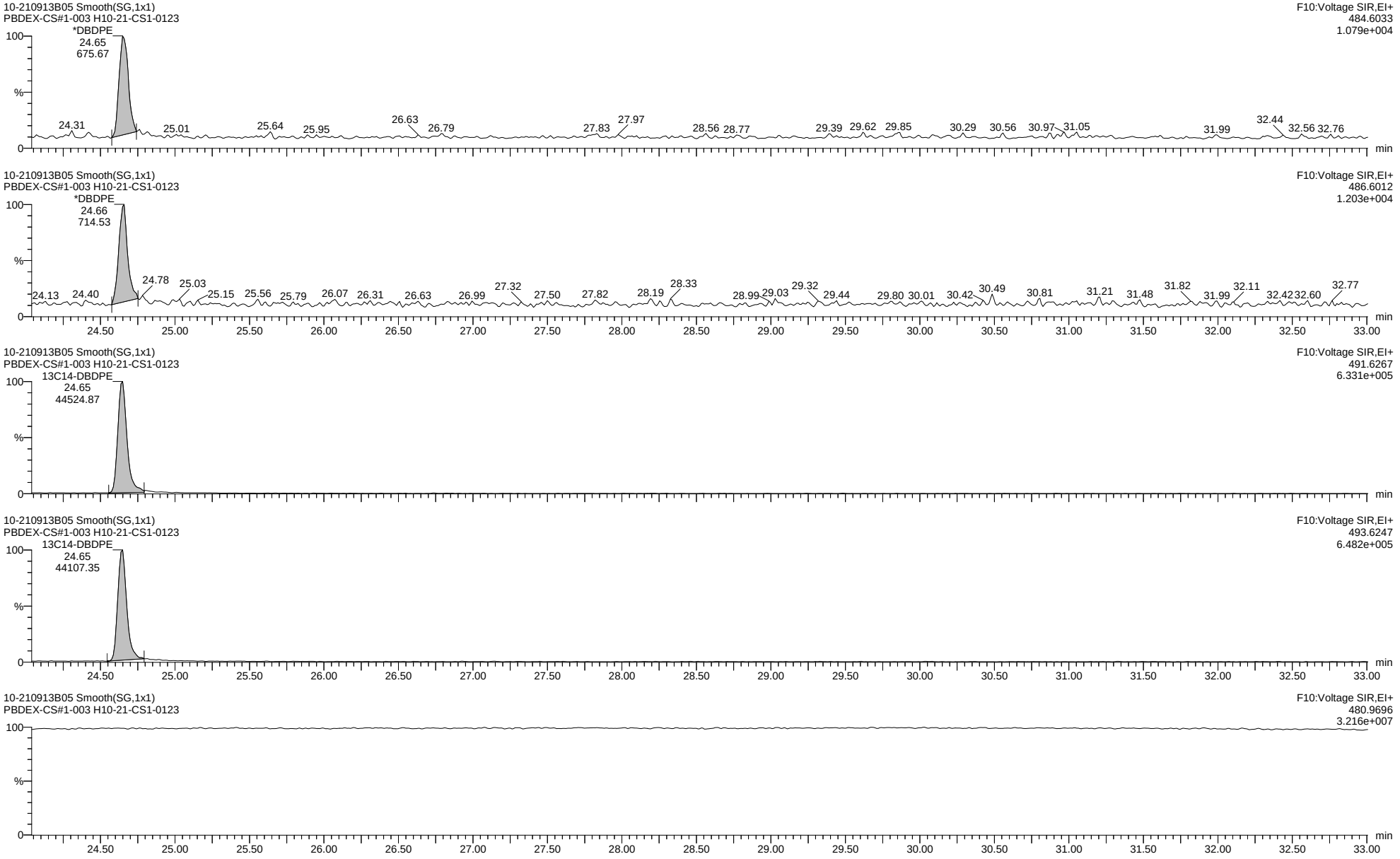

Quantify Sample Template Report **MassLynx MassLynx V4.1 SCN 901**

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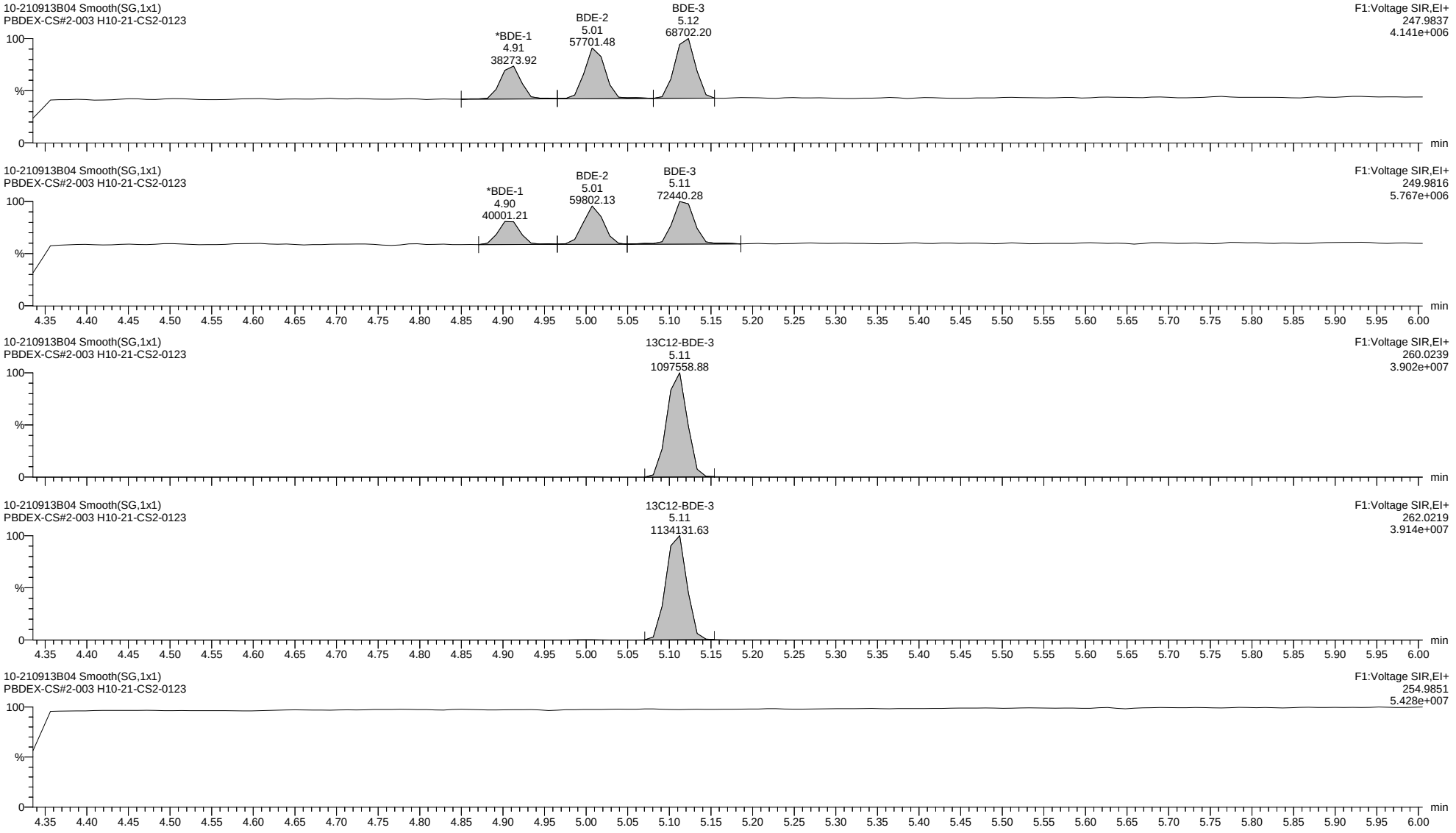

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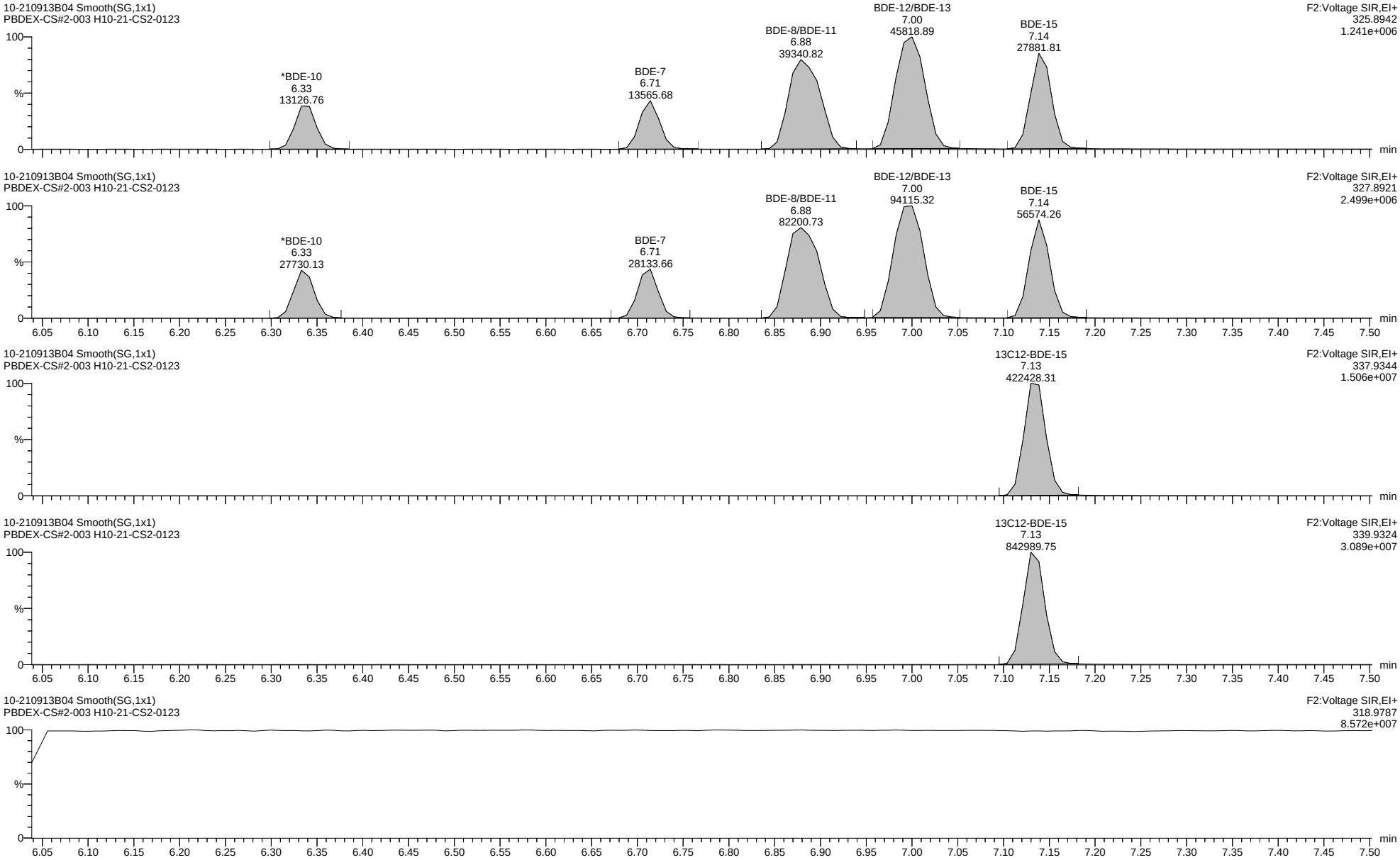

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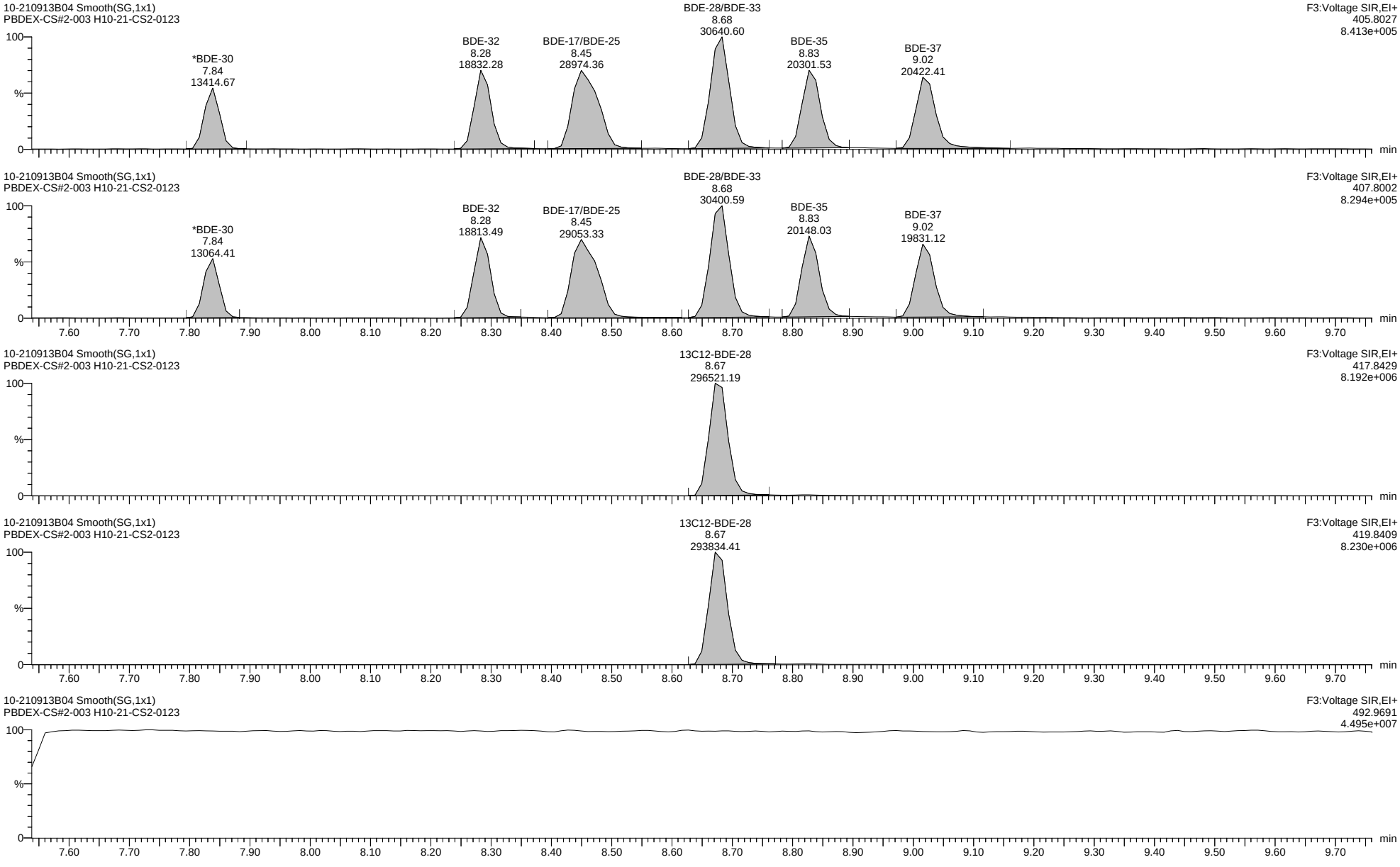

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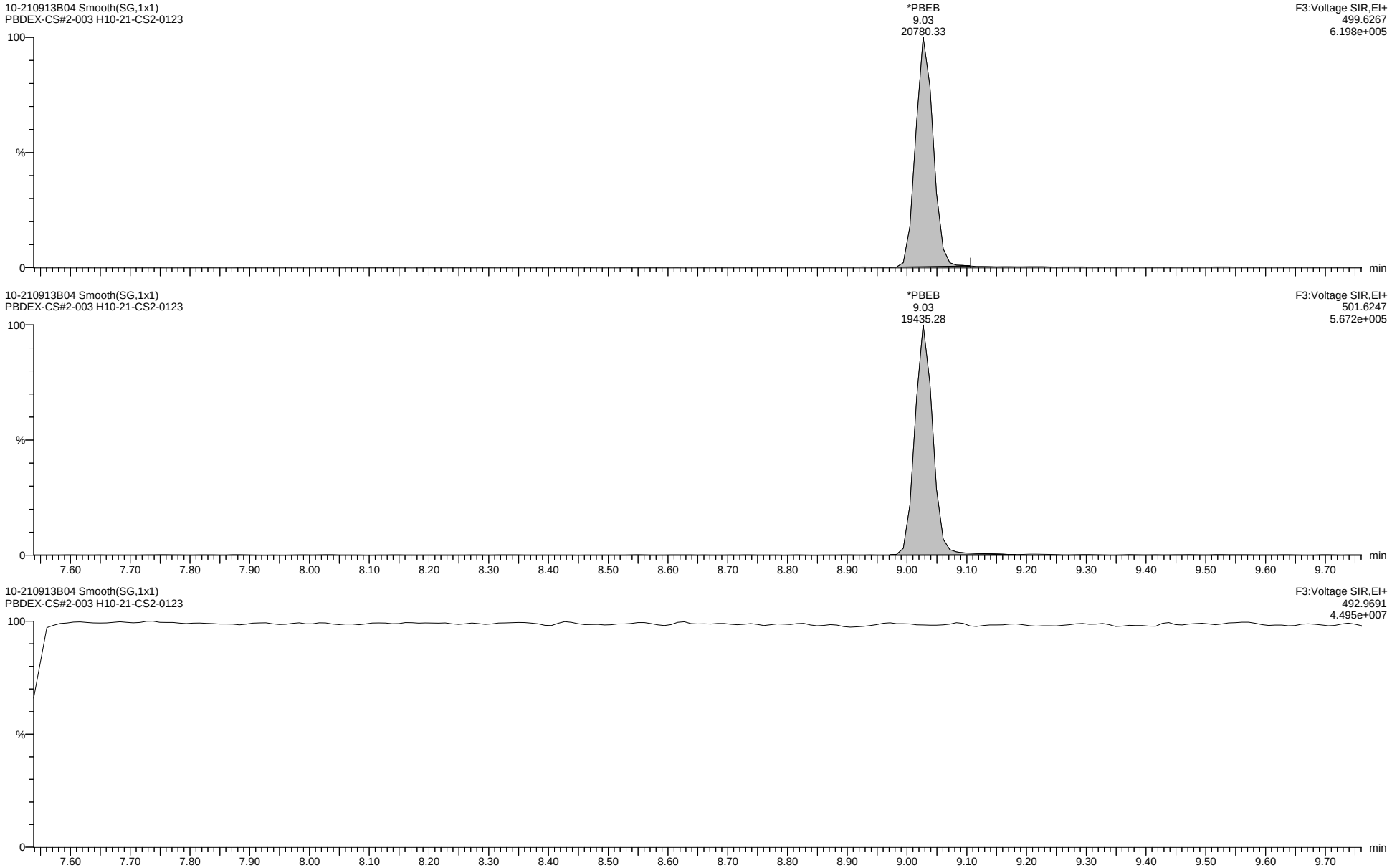

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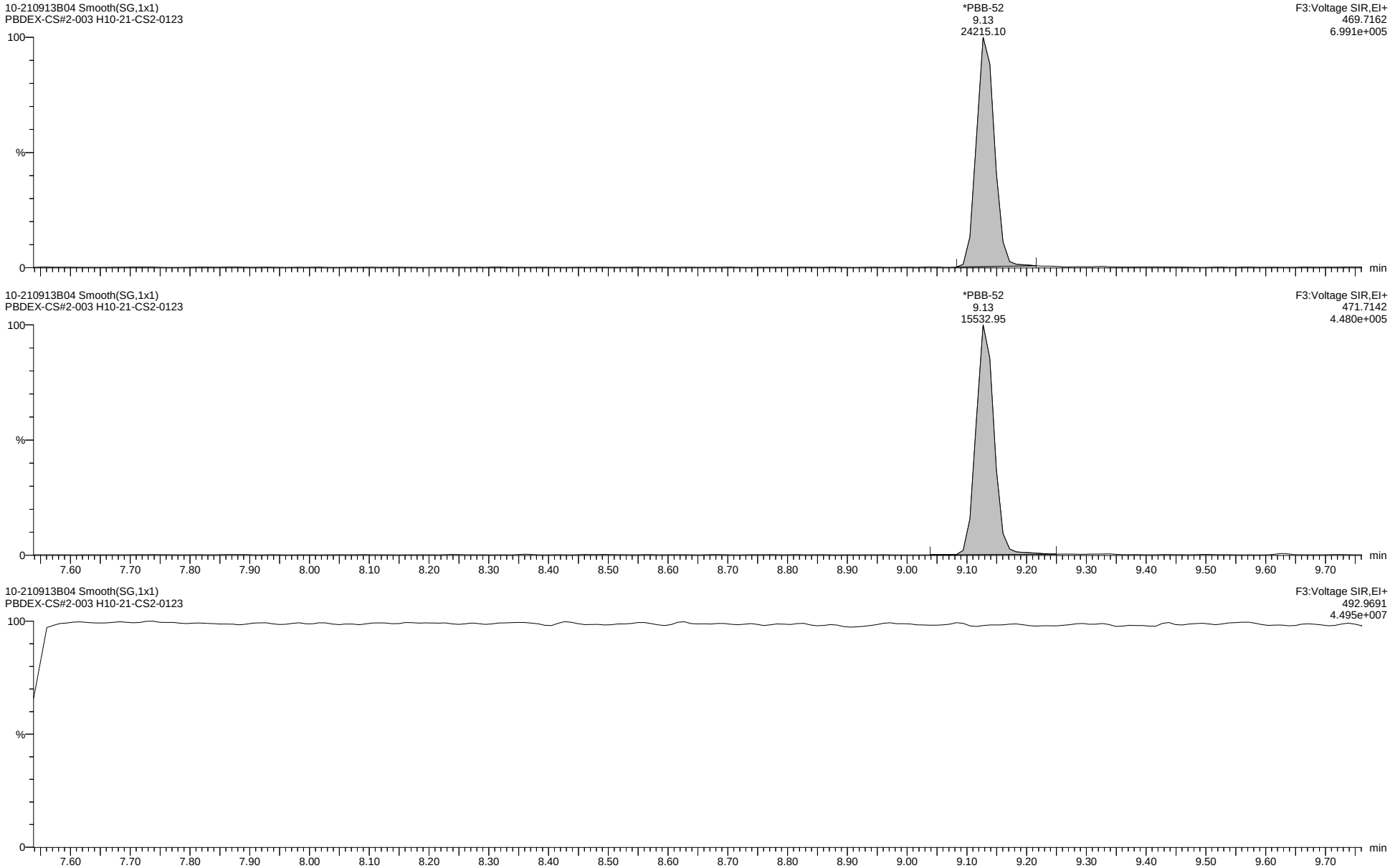

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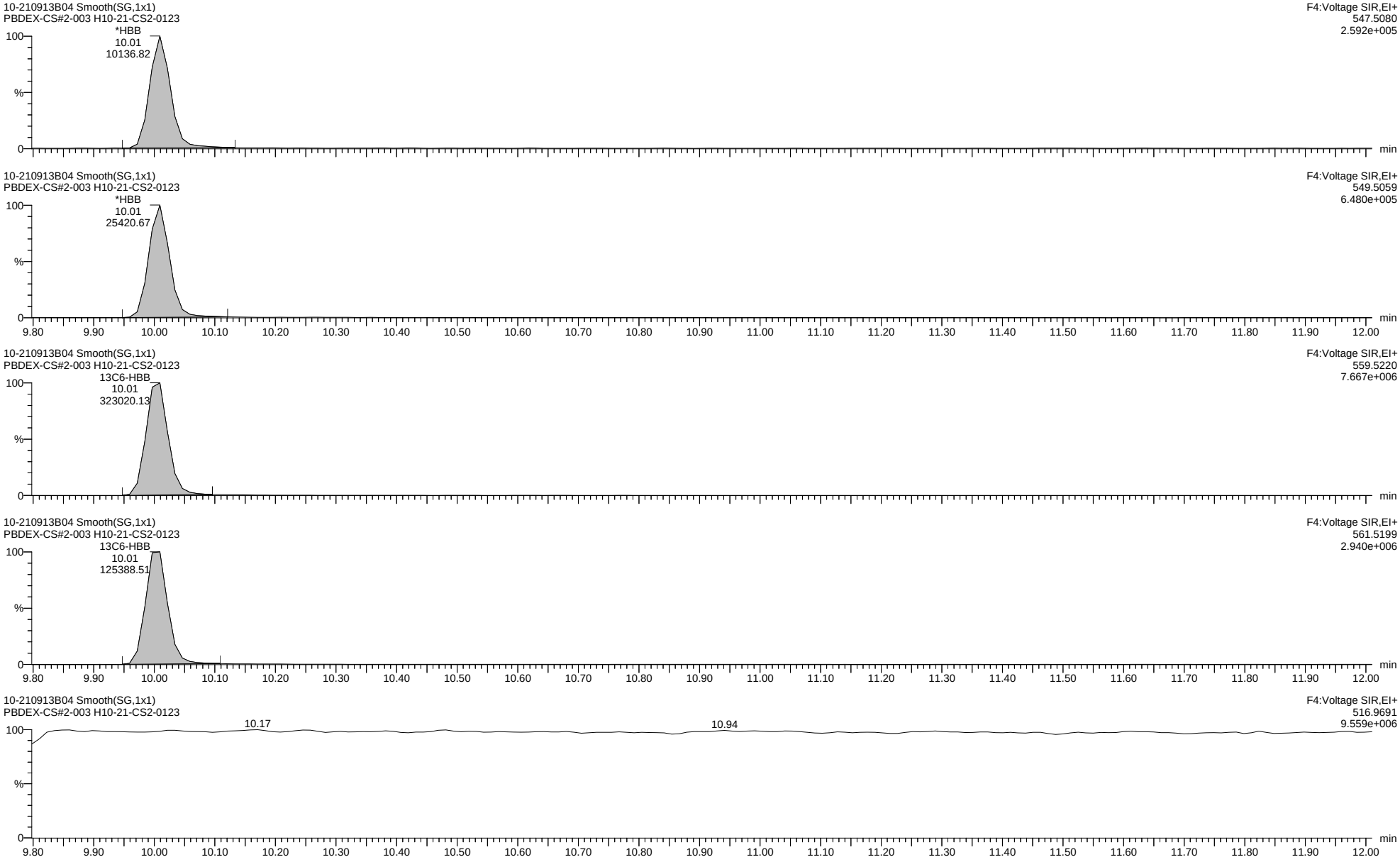

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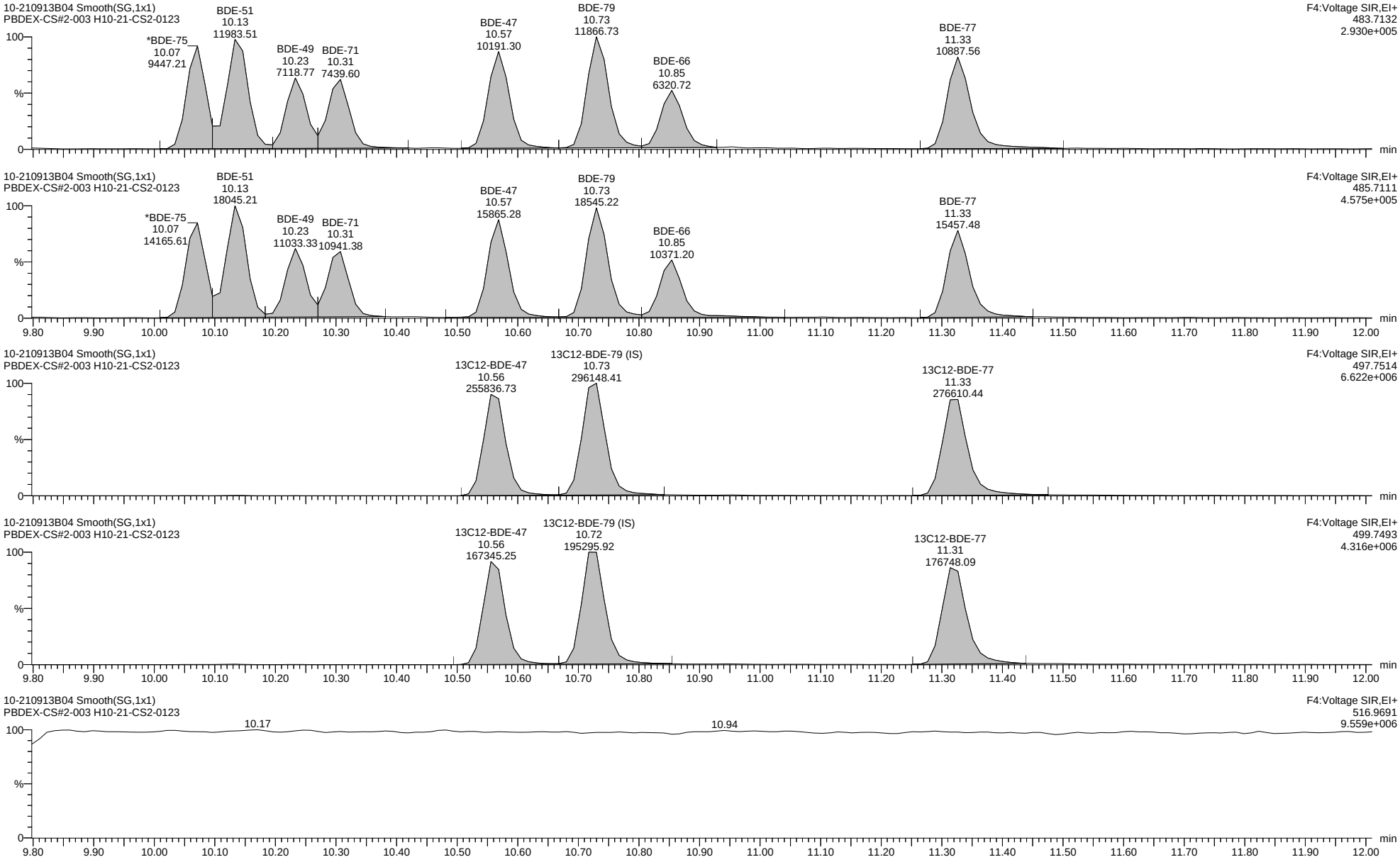

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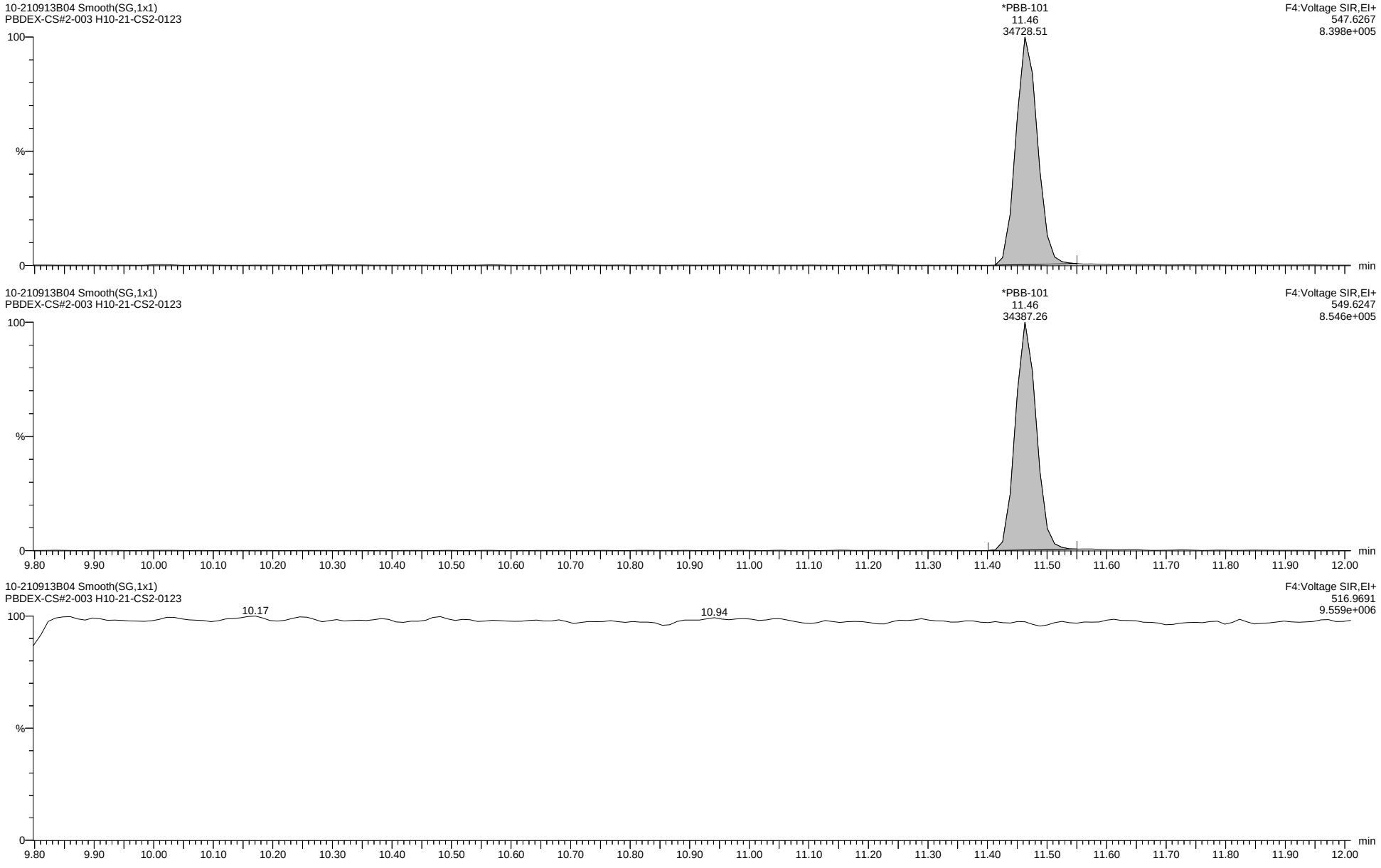

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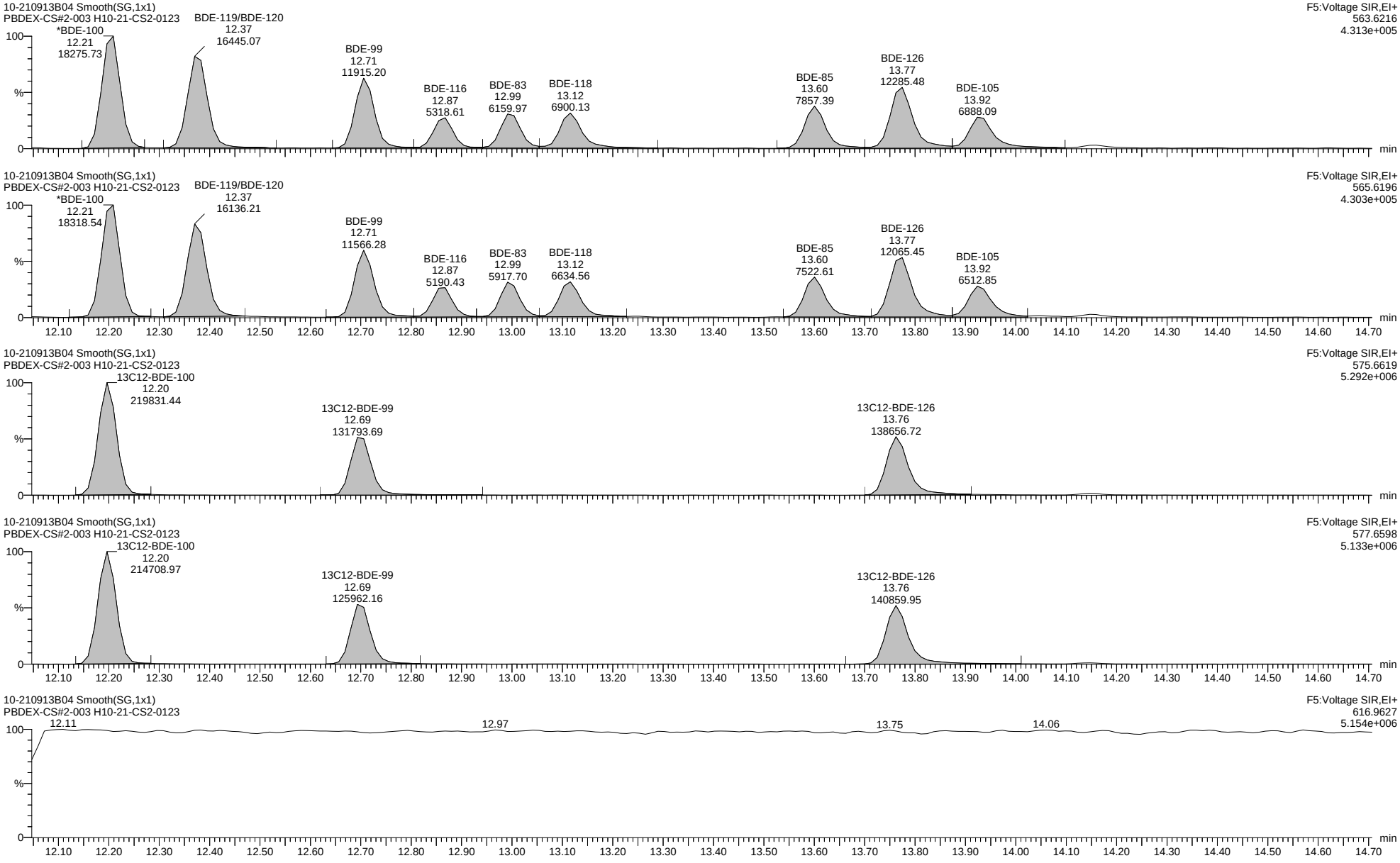

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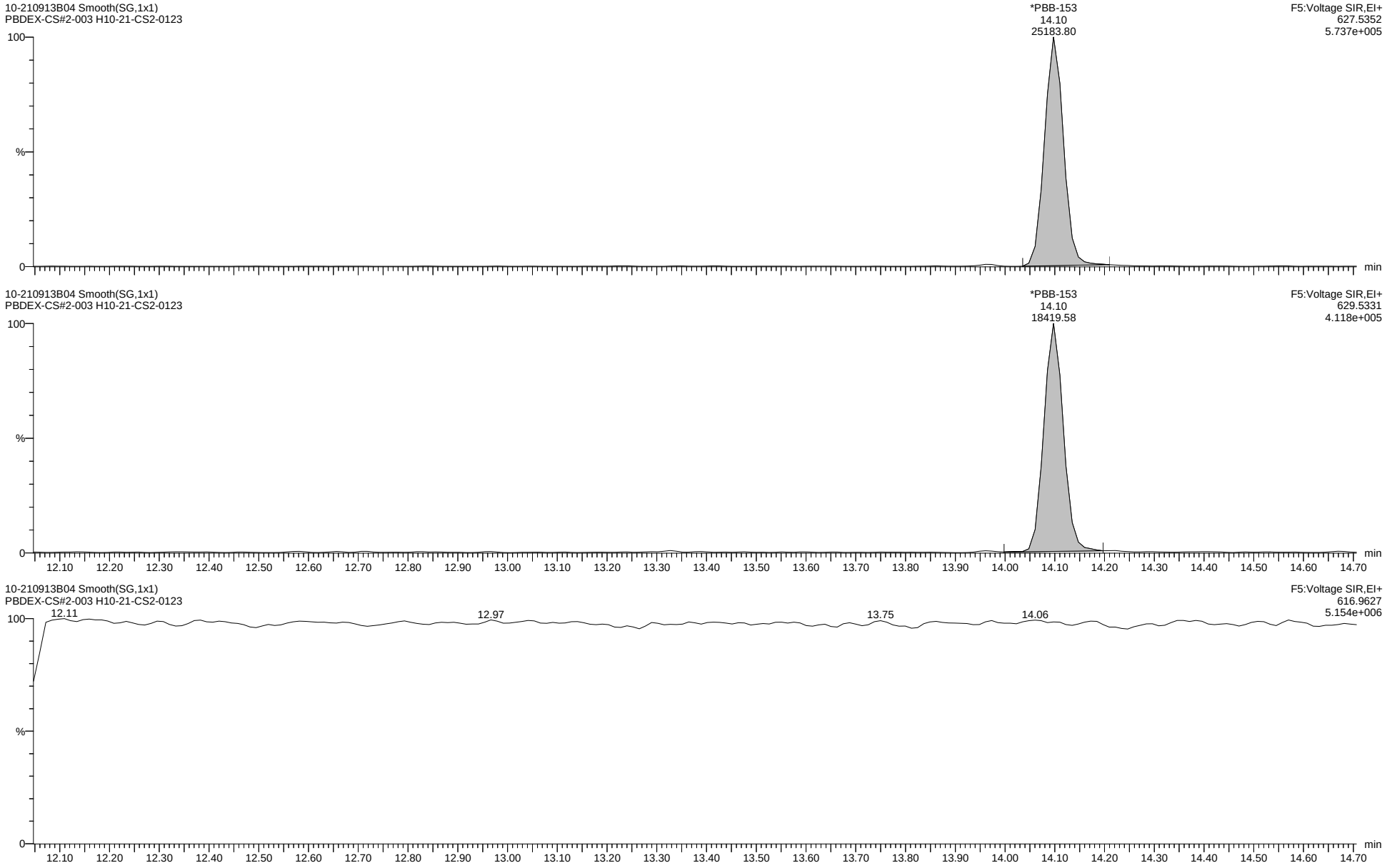

Quantify Sample Template Report **MassLynx MassLynx V4.1 SCN 901**

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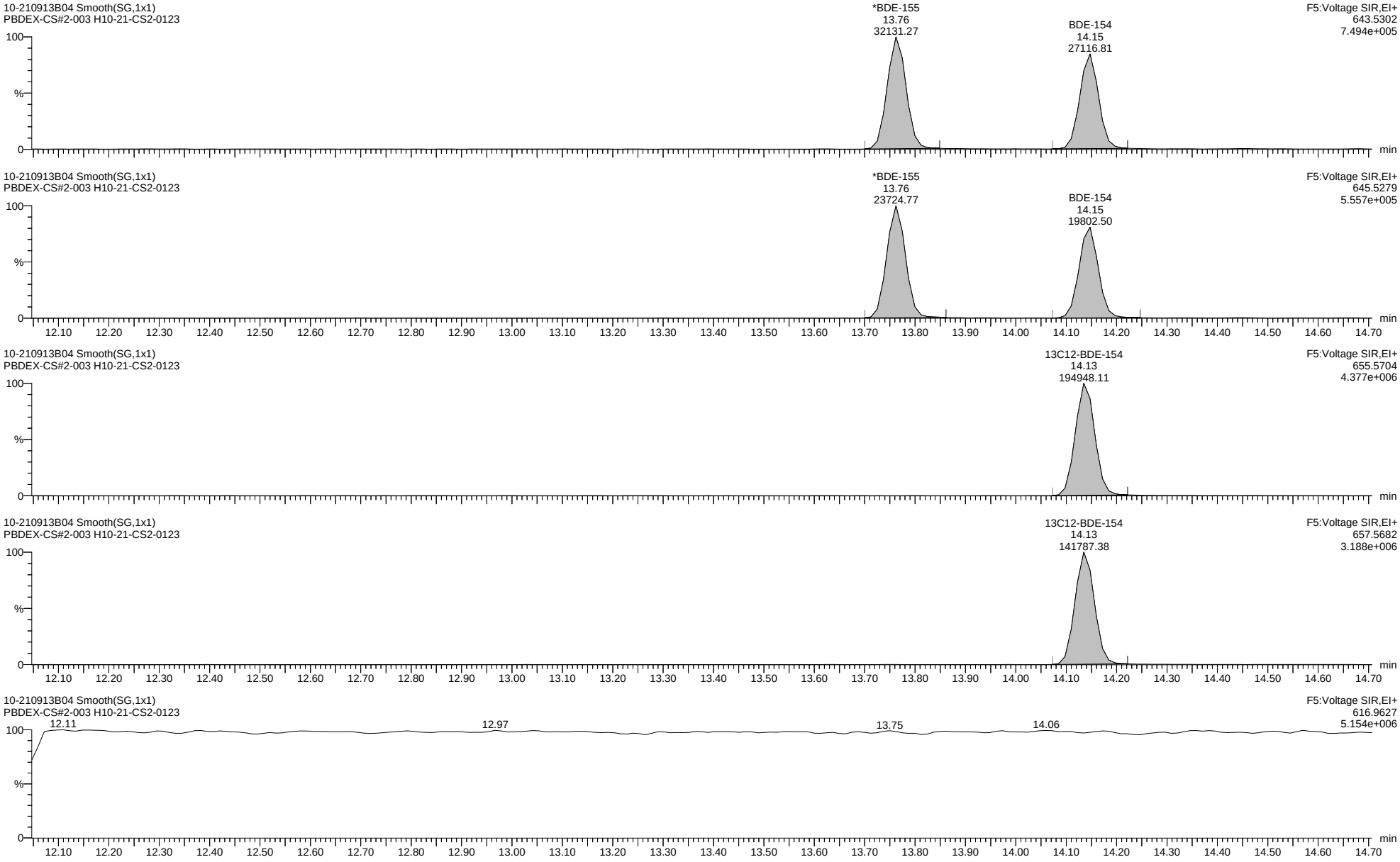

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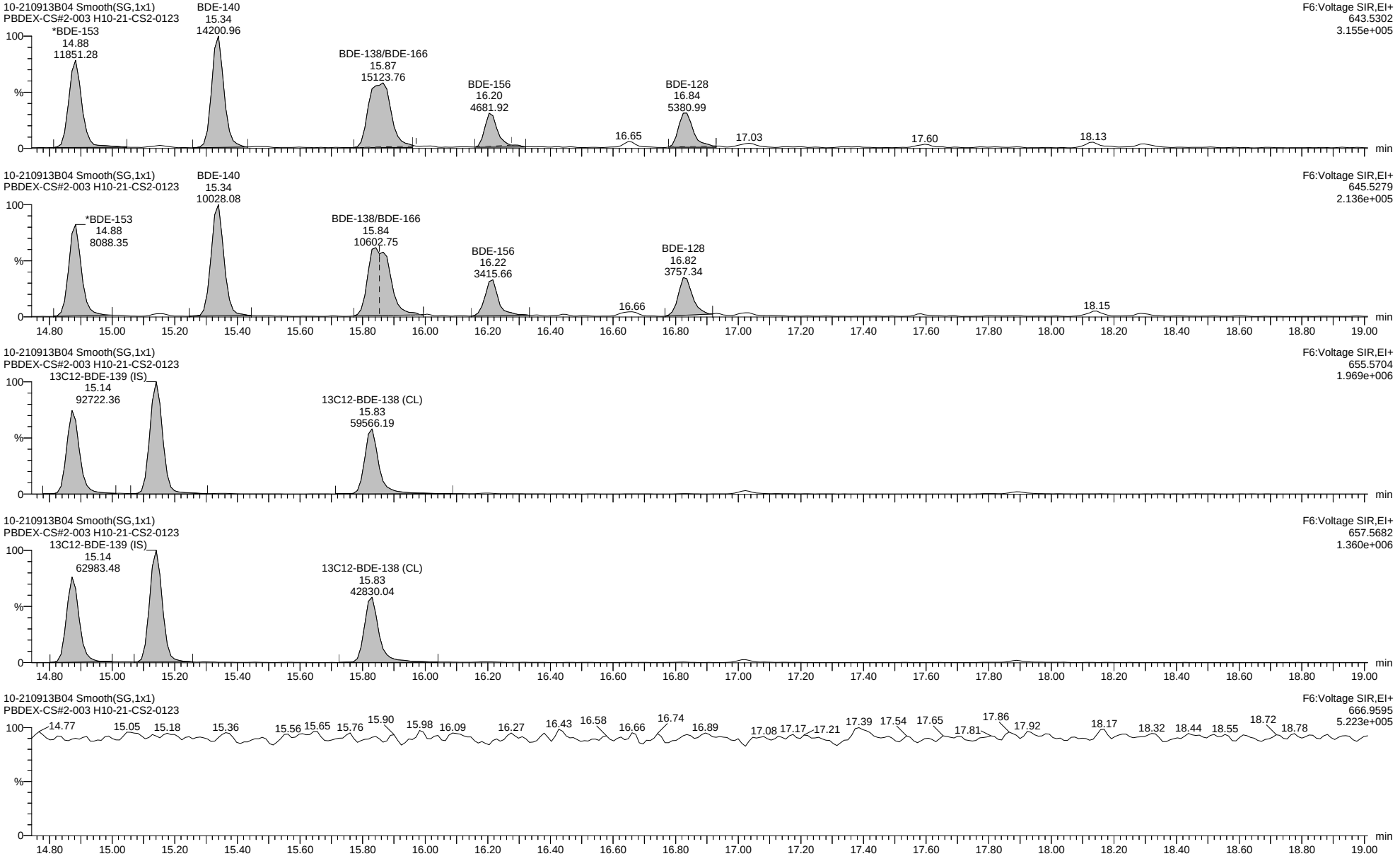

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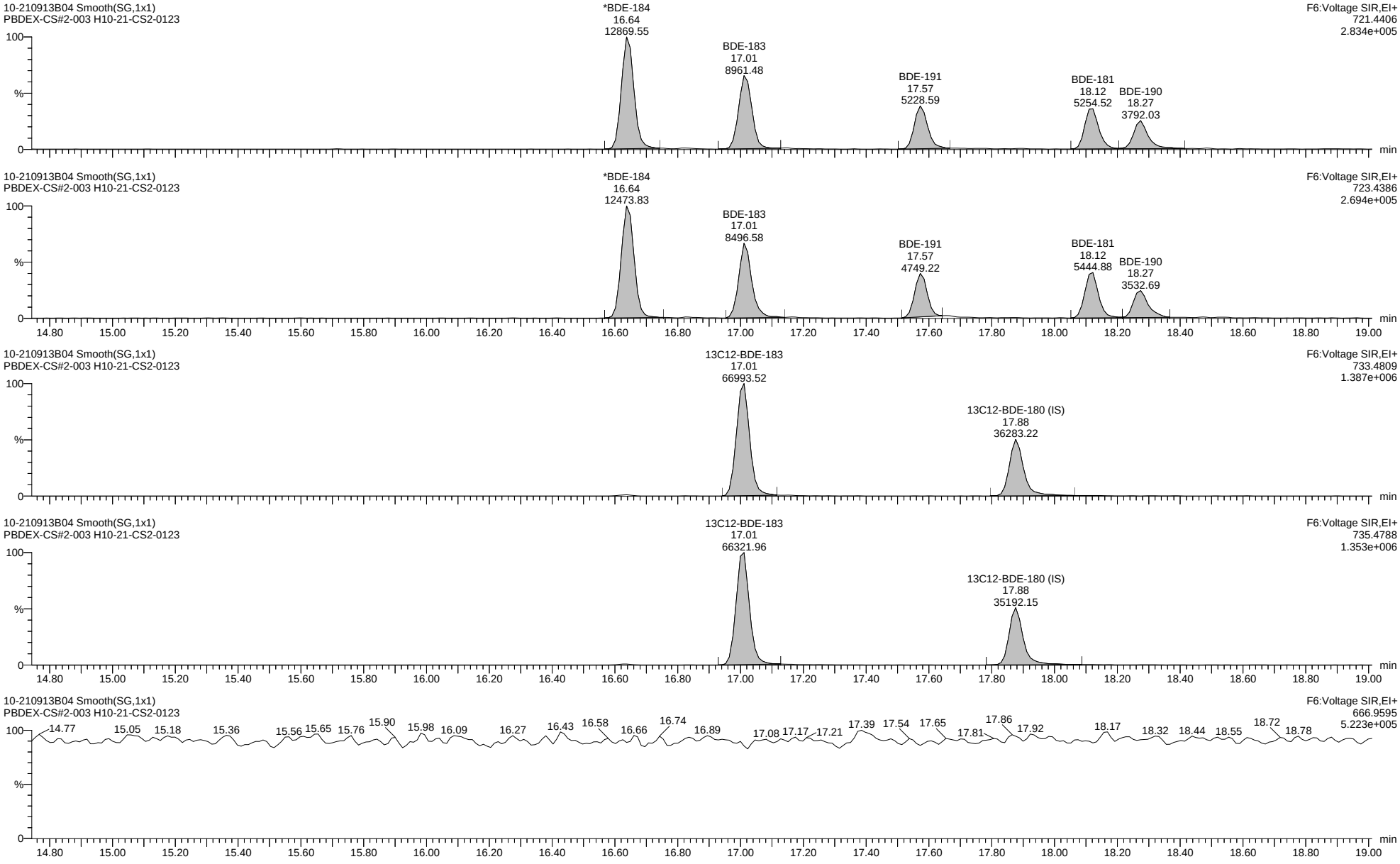

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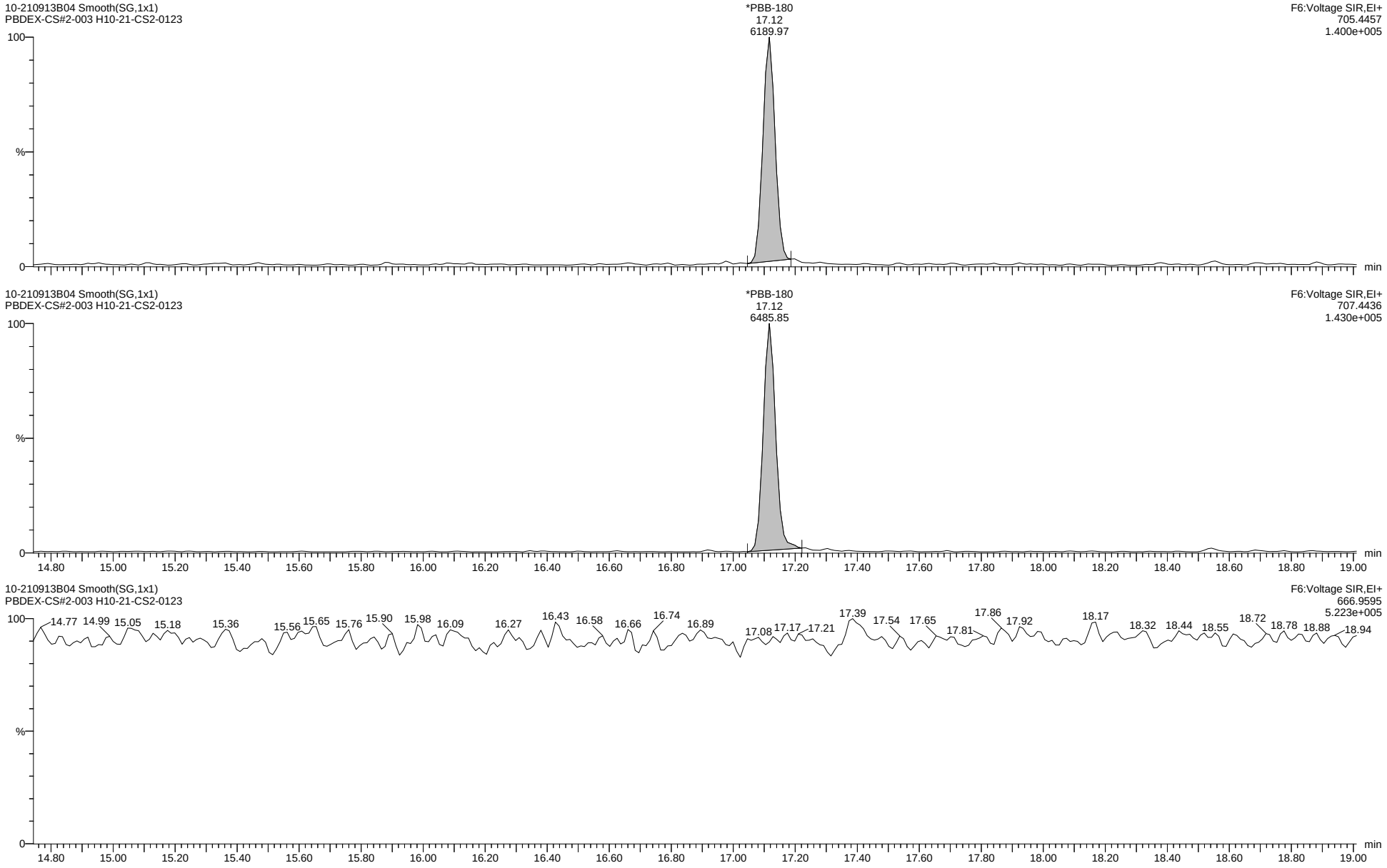

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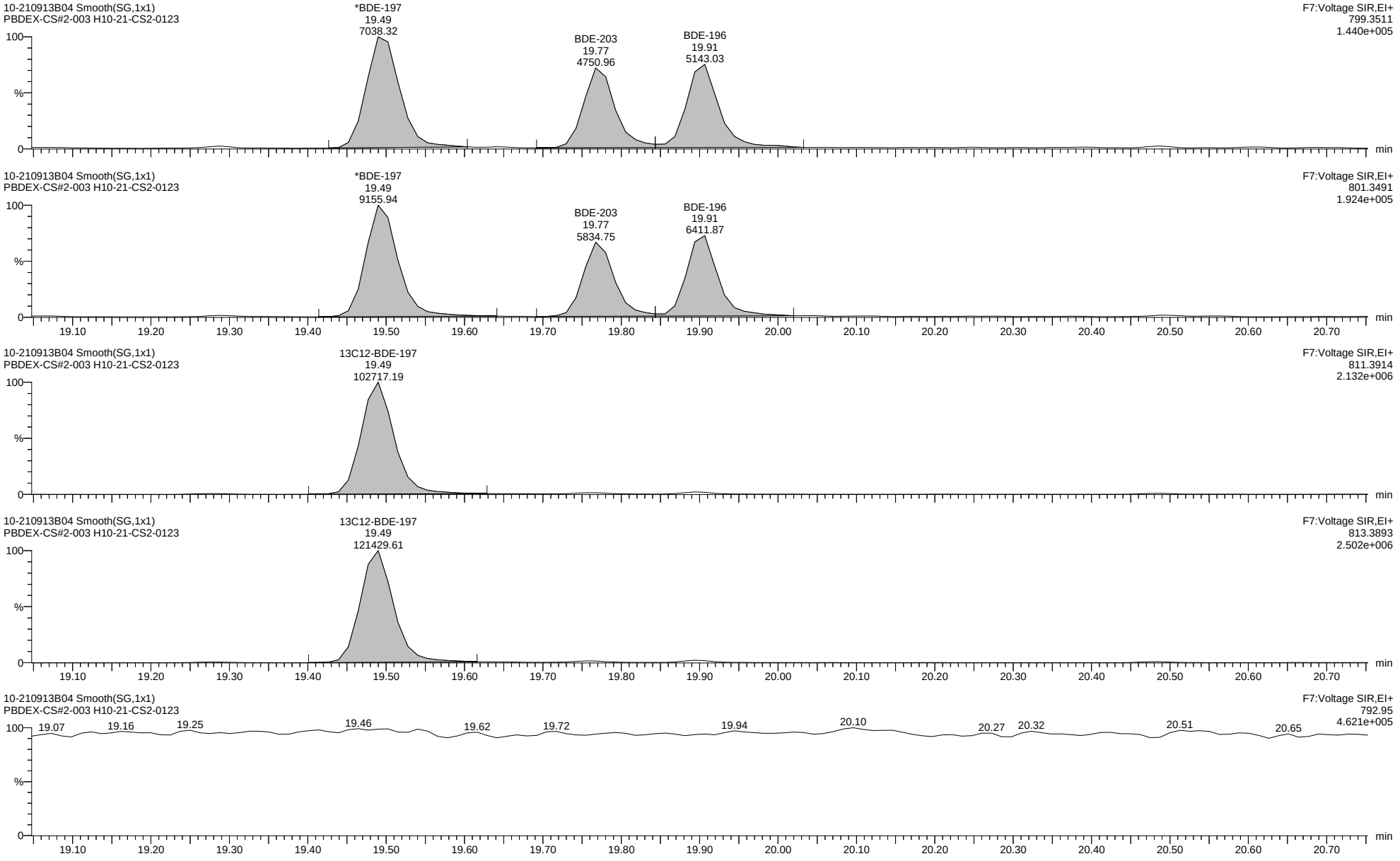

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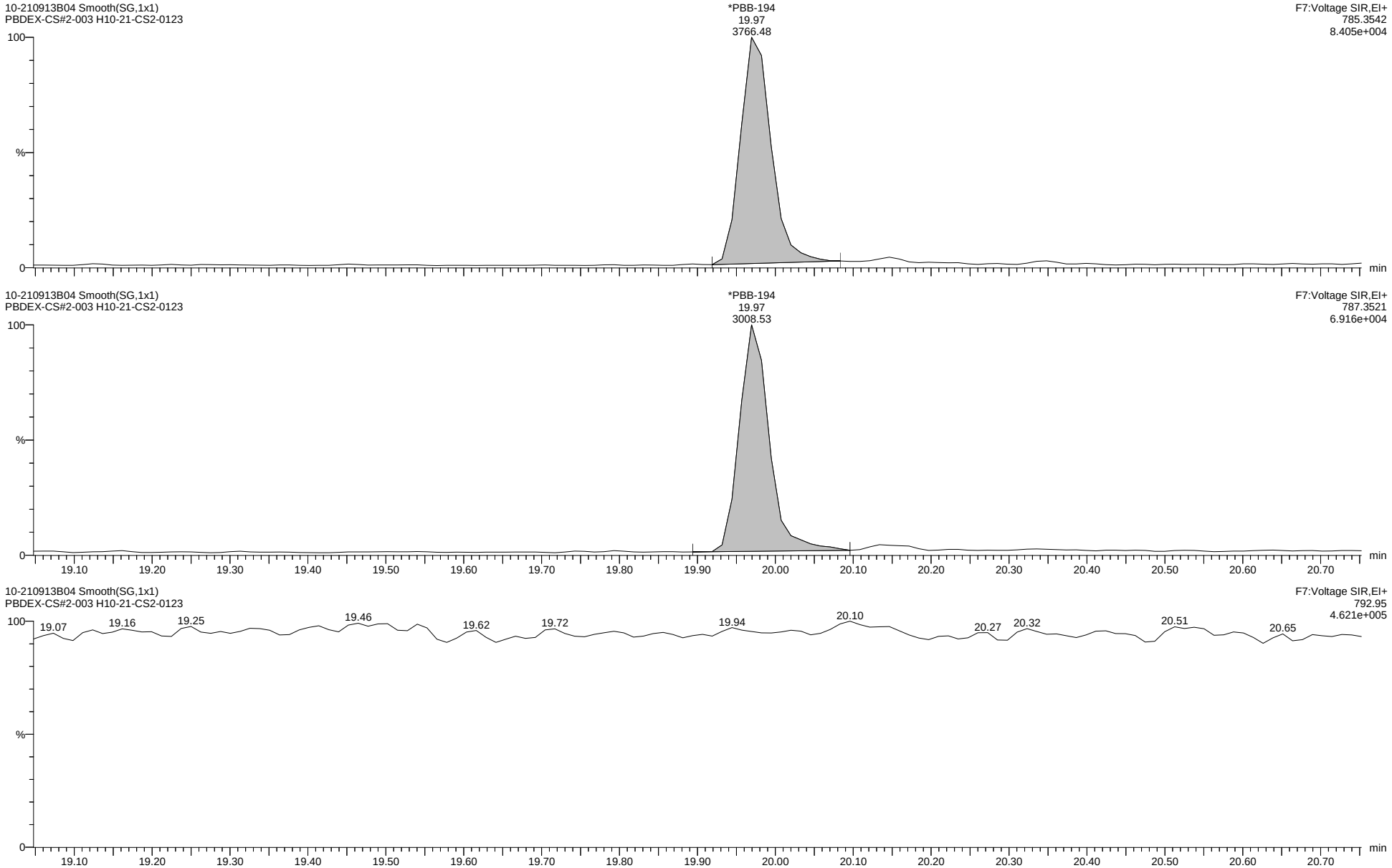

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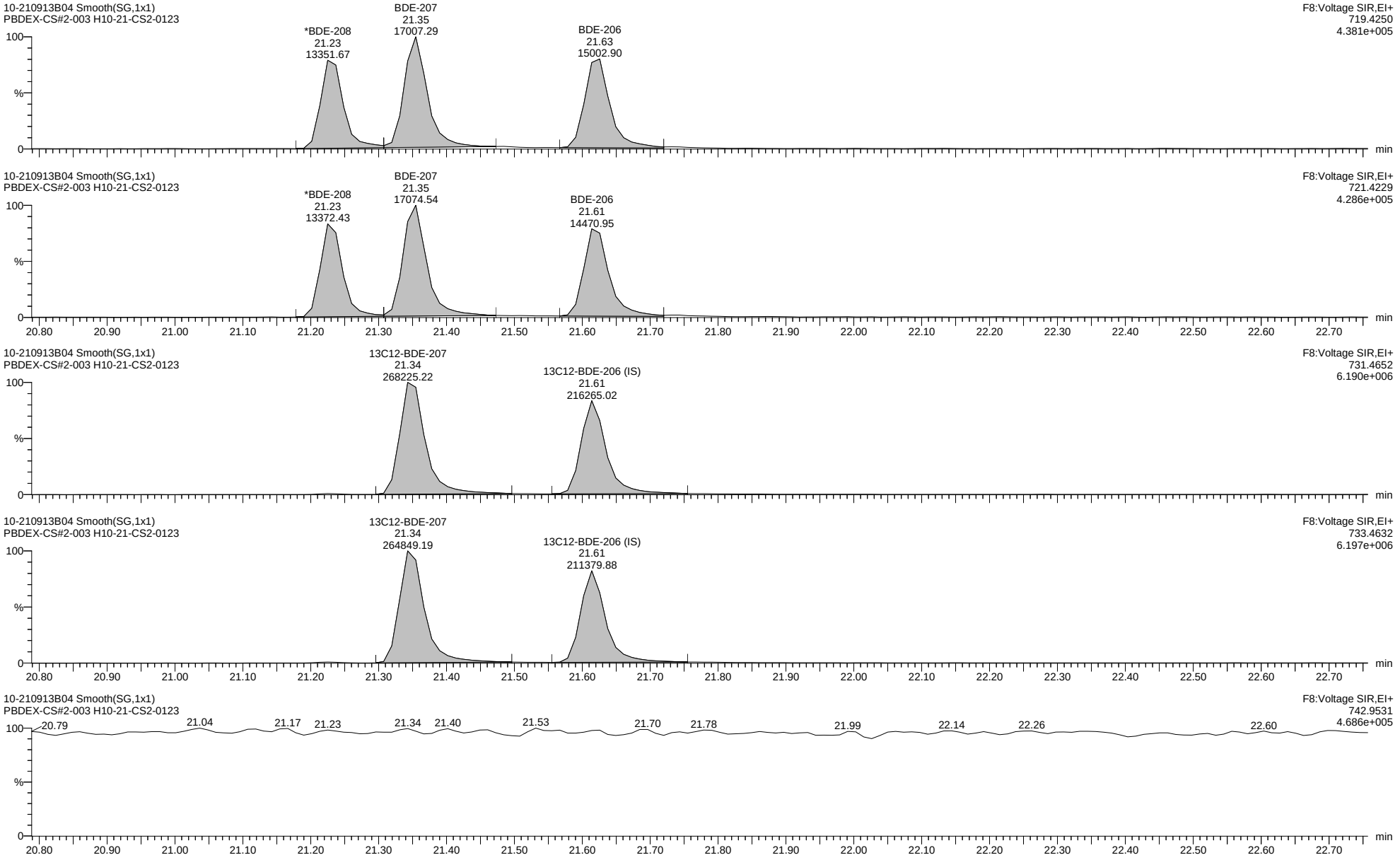

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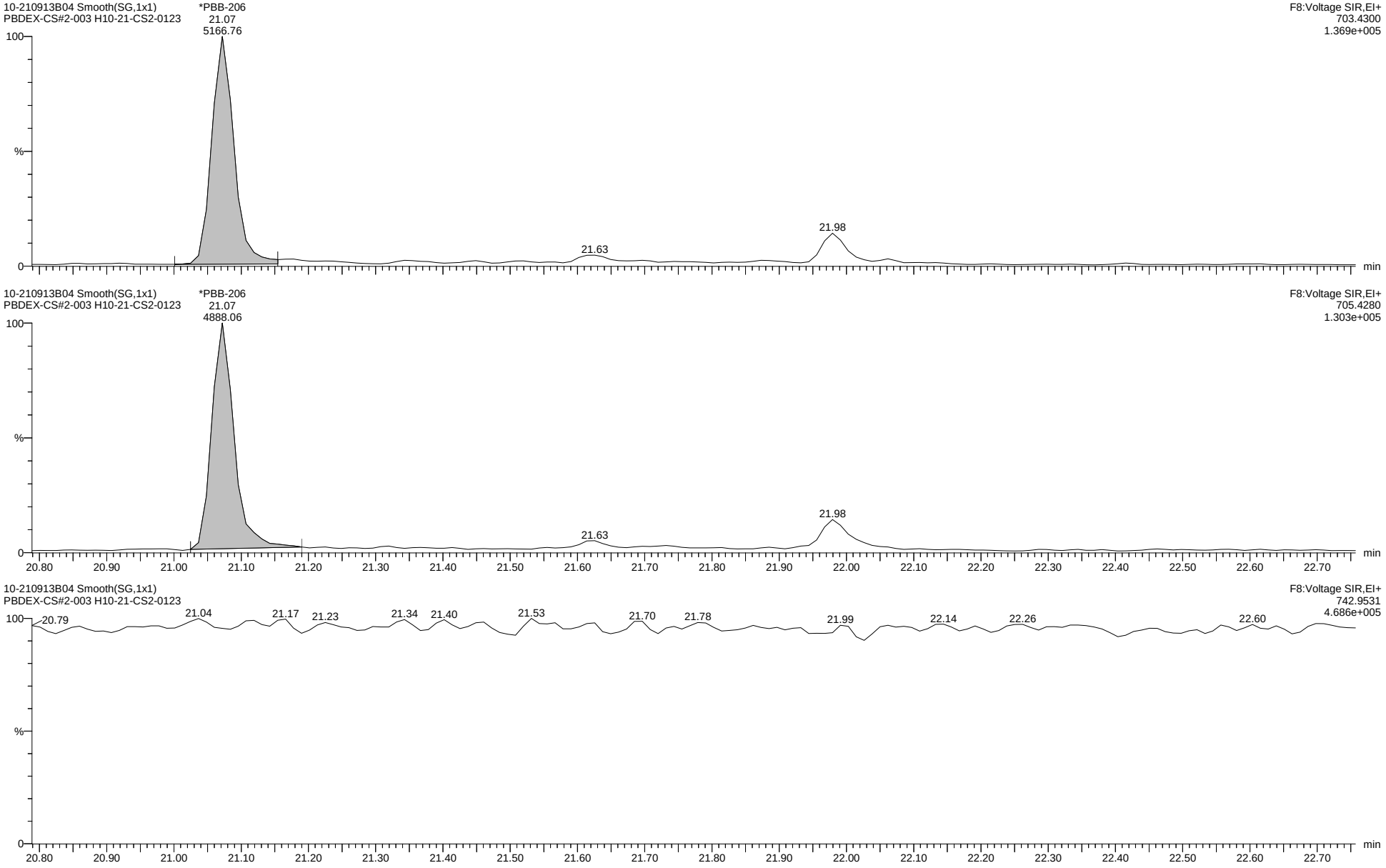

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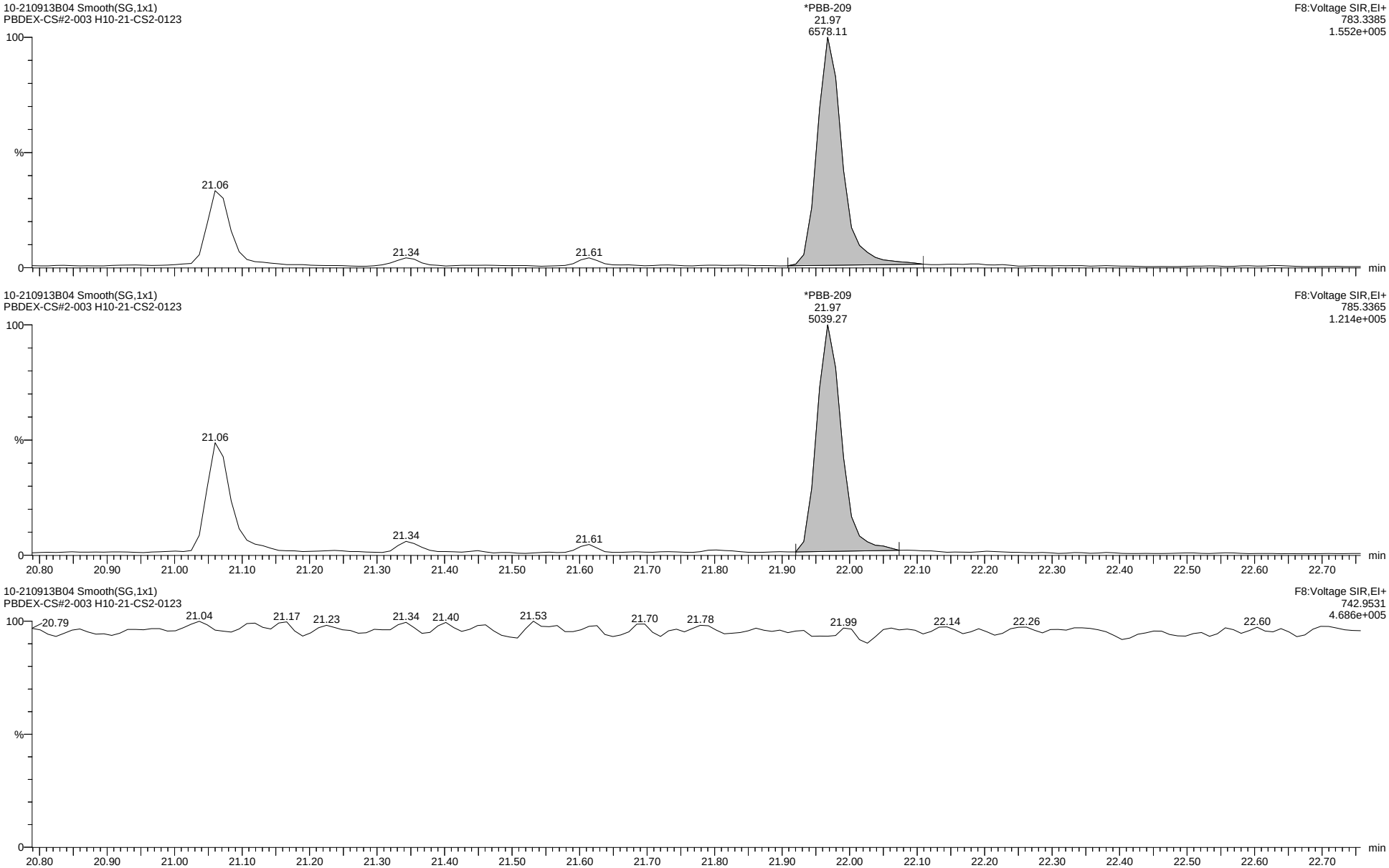

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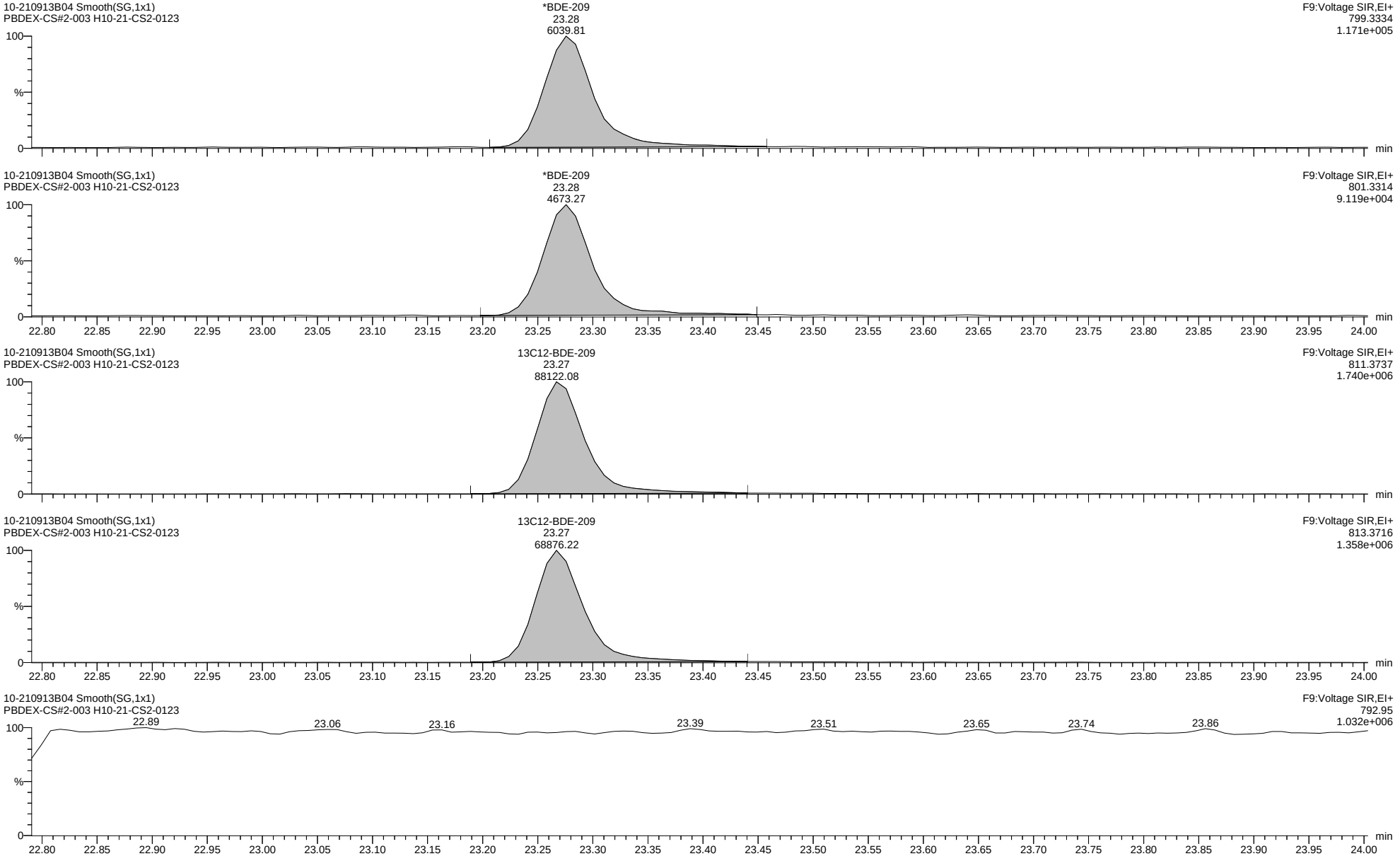

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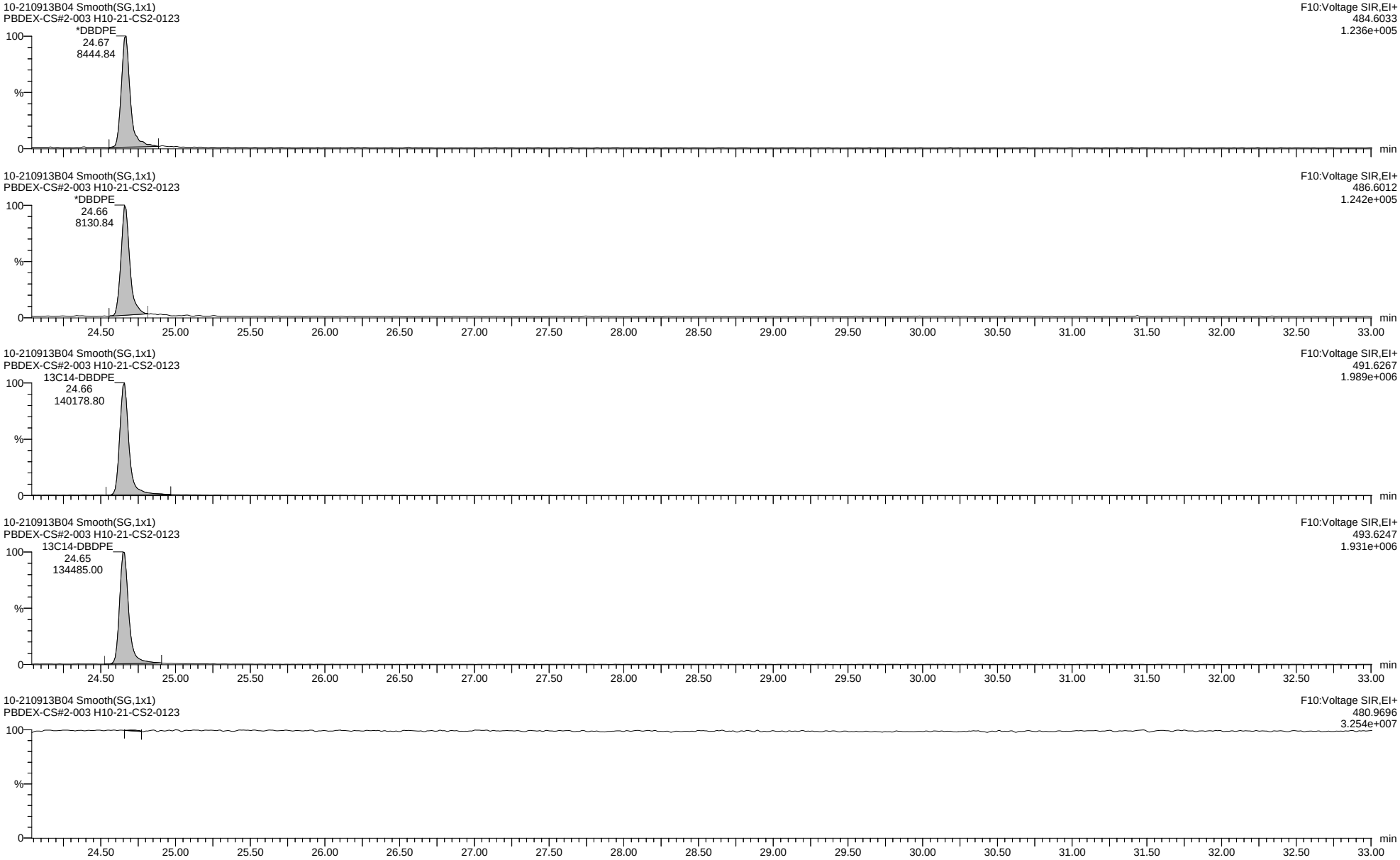

Quantify Sample Template Report **MassLynx MassLynx V4.1 SCN 901**

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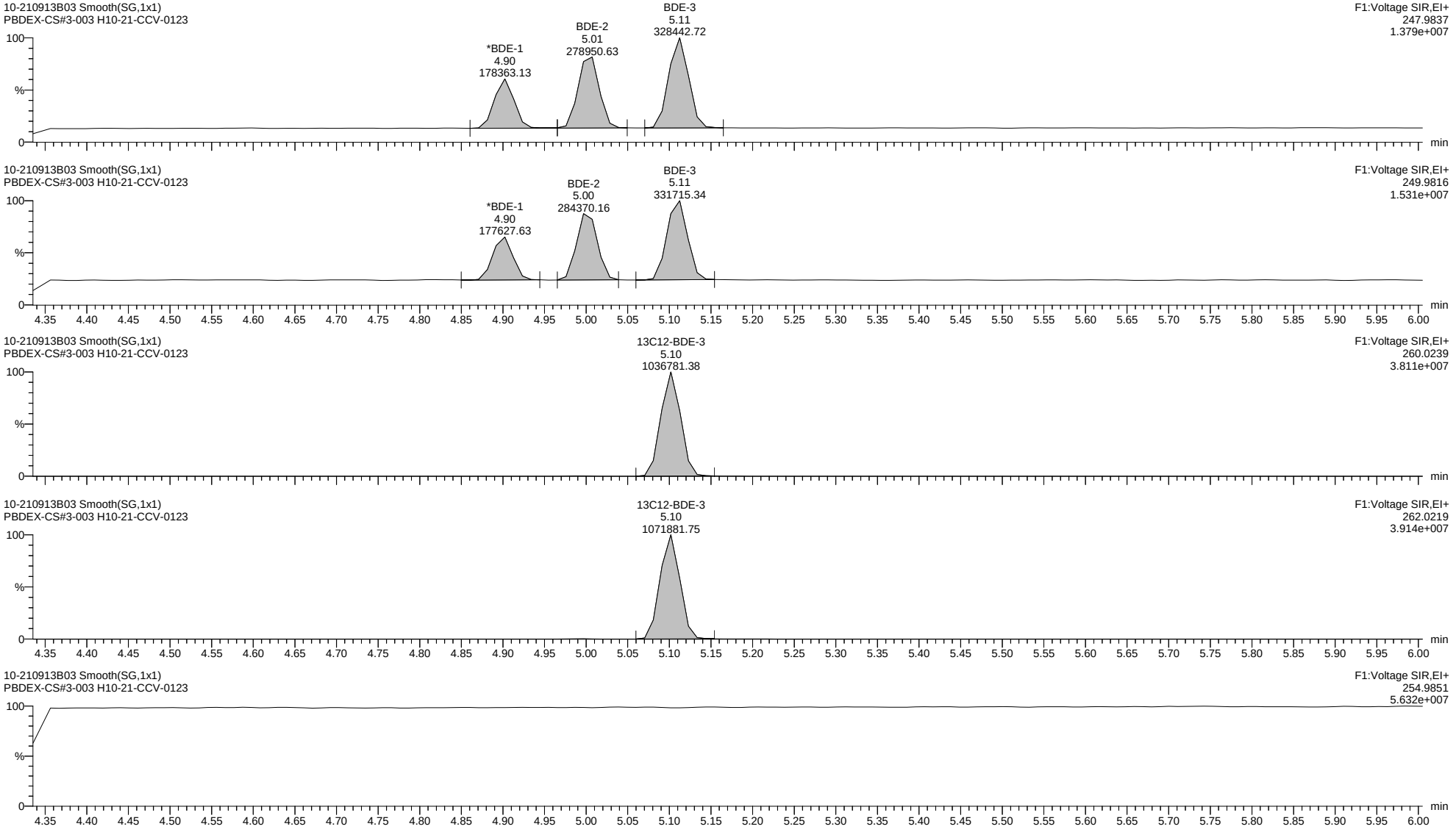

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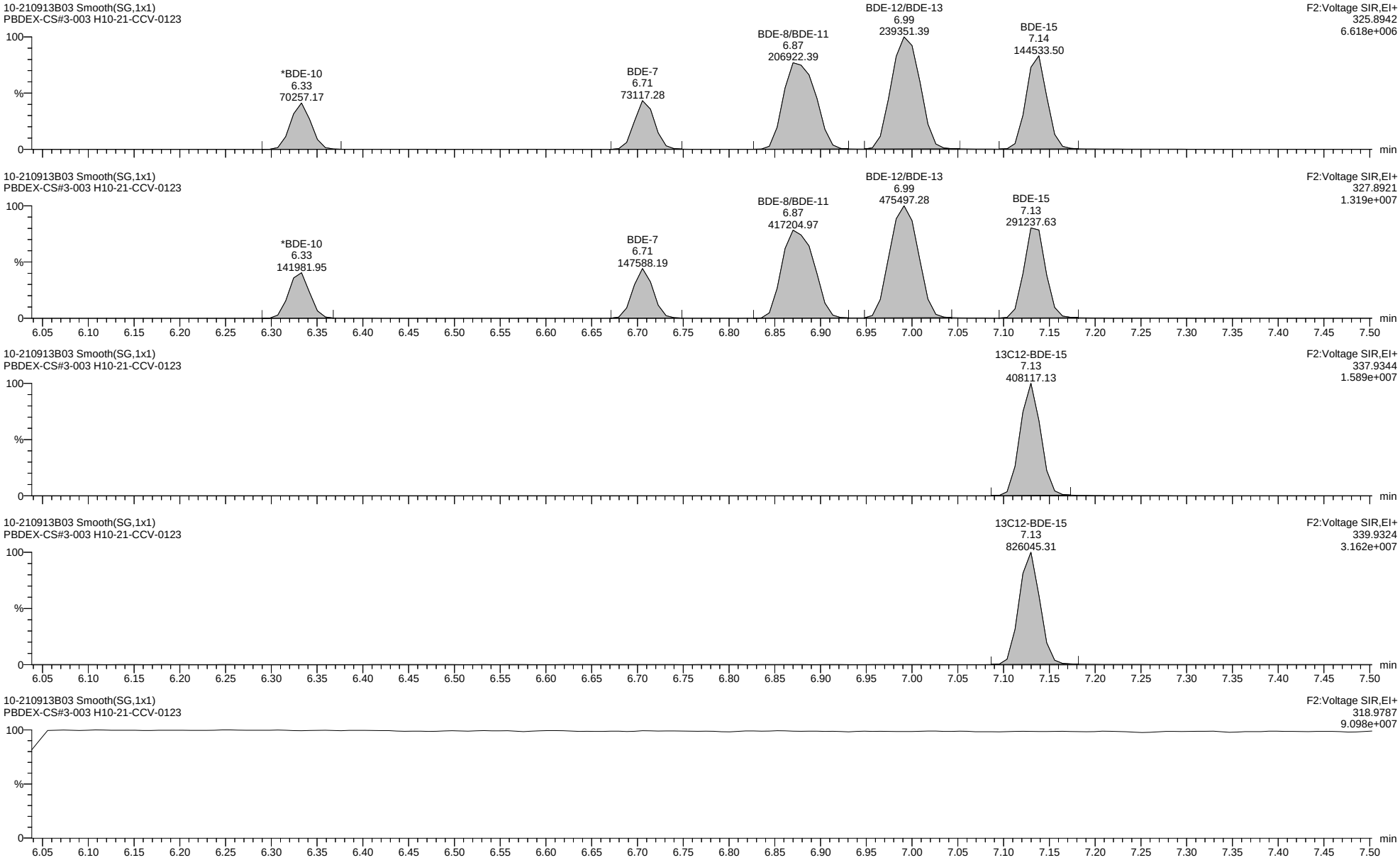

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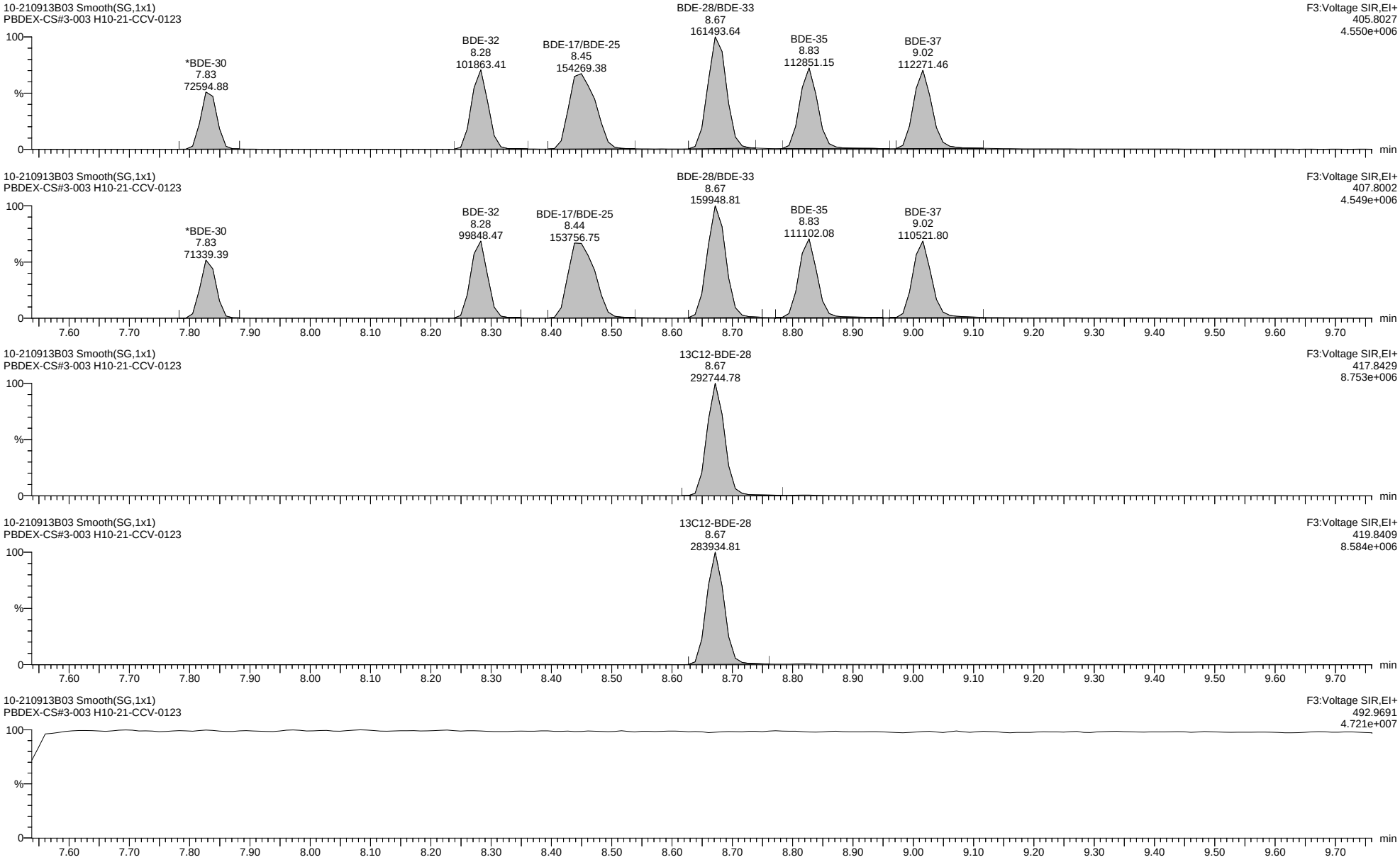
Printed: Friday, September 17, 2021 10:50:04 Eastern Daylight Time

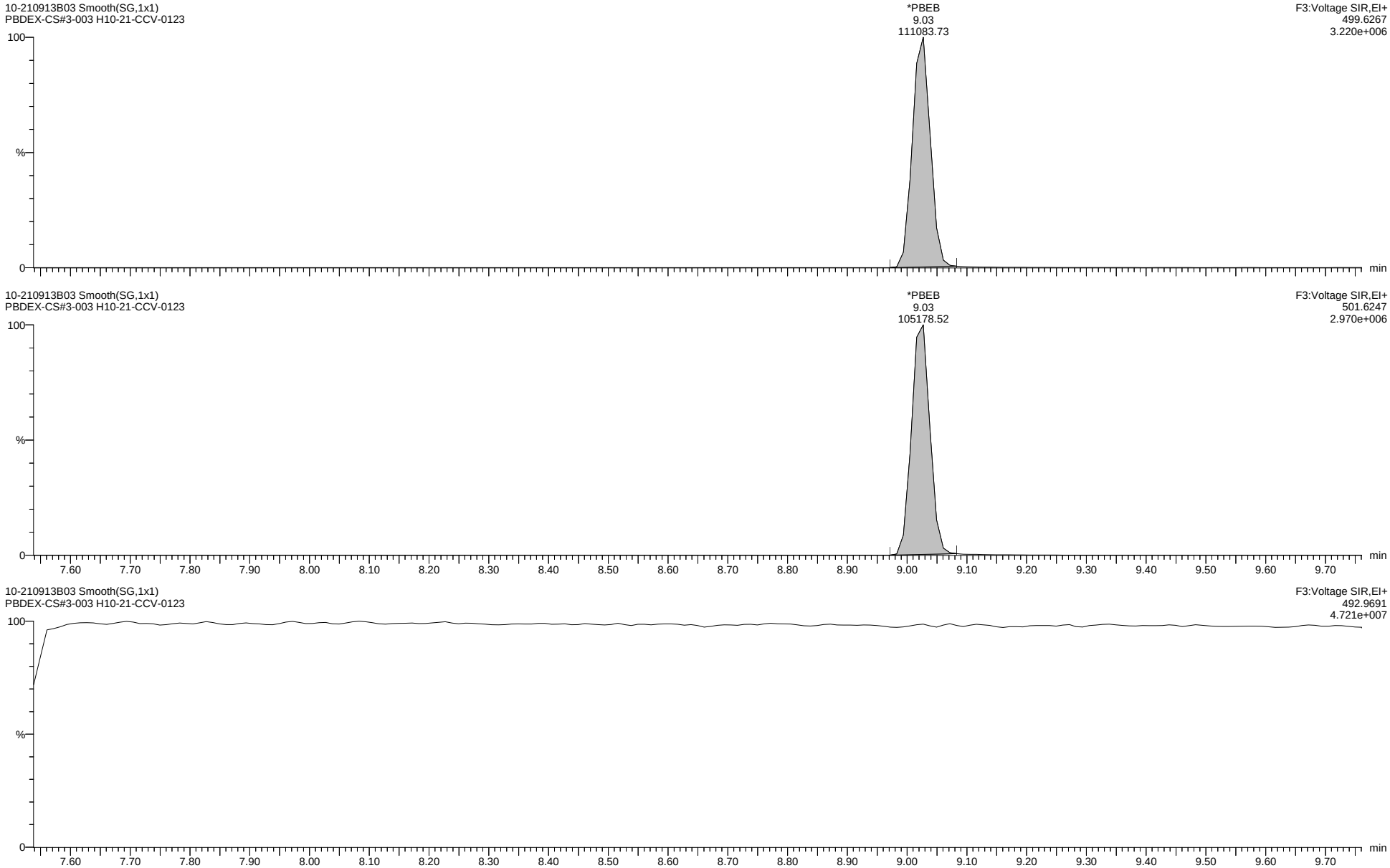
Name: 10-210913B03, Date: 13-Sep-2021, Time: 18:23:00, ID: H10-21-CCV-0123, Description: PBDEX-CS#3-003, Vial: Tray1:1



Dataset: I:\Organics Instrument\HIGHRES GCMS Completed Results Files\HR-10\2021\2109\10-210913B-ICAL-PBDE.qld

Last Altered: Tuesday, September 14, 2021 11:07:06 Eastern Daylight Time
Printed: Friday, September 17, 2021 10:50:04 Eastern Daylight Time

Name: 10-210913B03, Date: 13-Sep-2021, Time: 18:23:00, ID: H10-21-CCV-0123, Description: PBDEX-CS#3-003, Vial: Tray1:1



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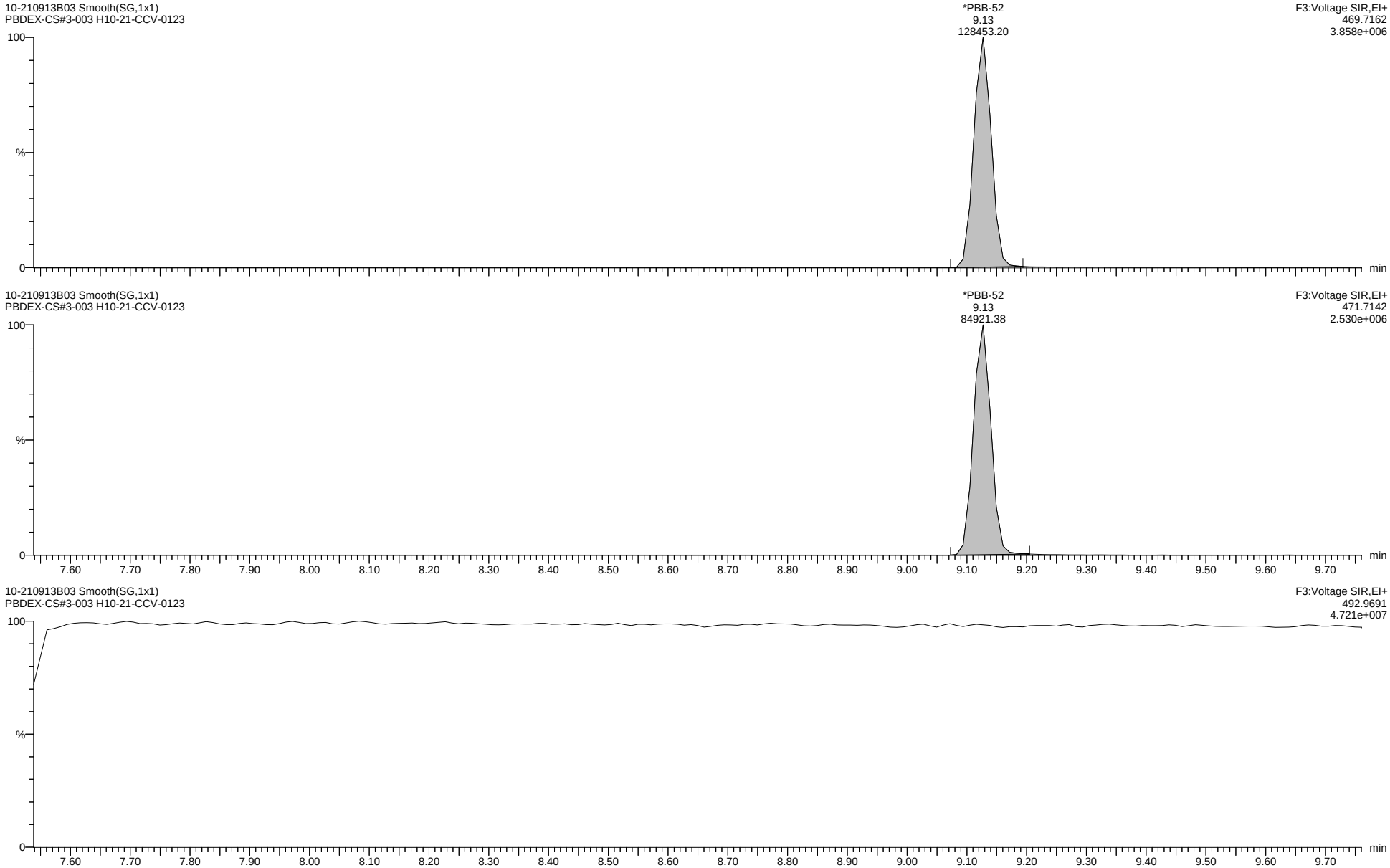

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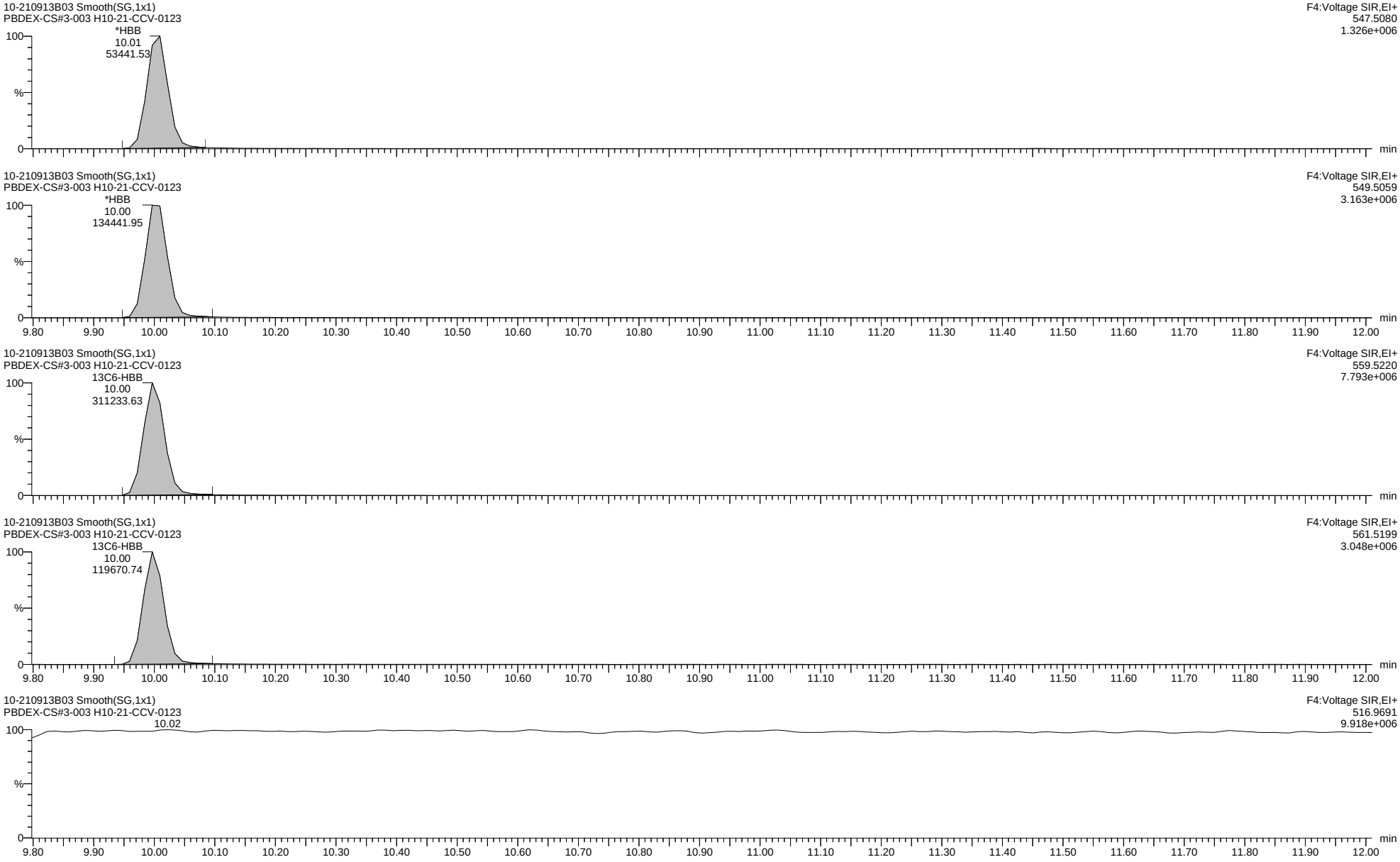

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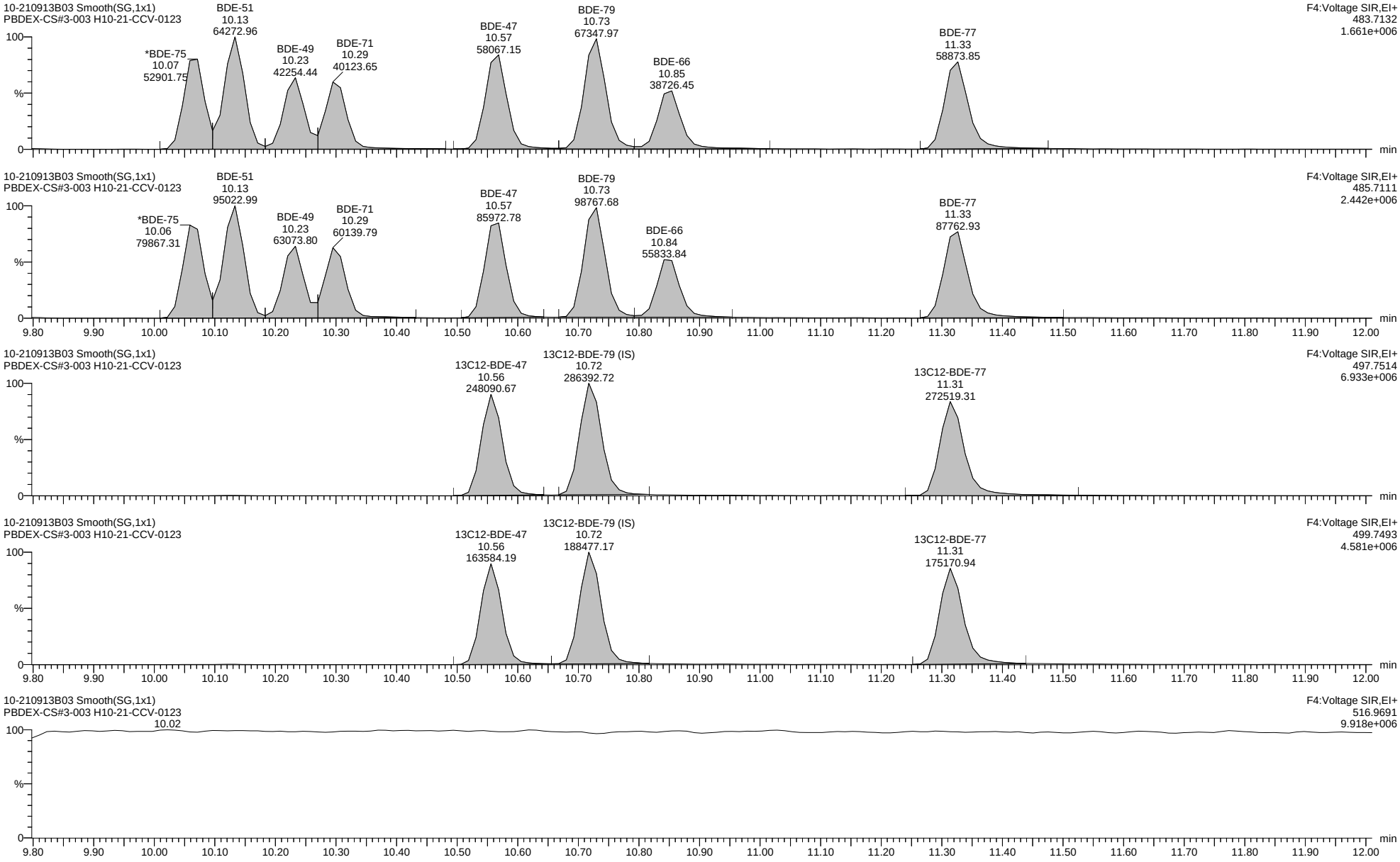

Quantify Sample Template Report **MassLynx MassLynx V4.1 SCN 901**

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Printed: Friday, September 17, 2021 10:50:04 Eastern Daylight Time

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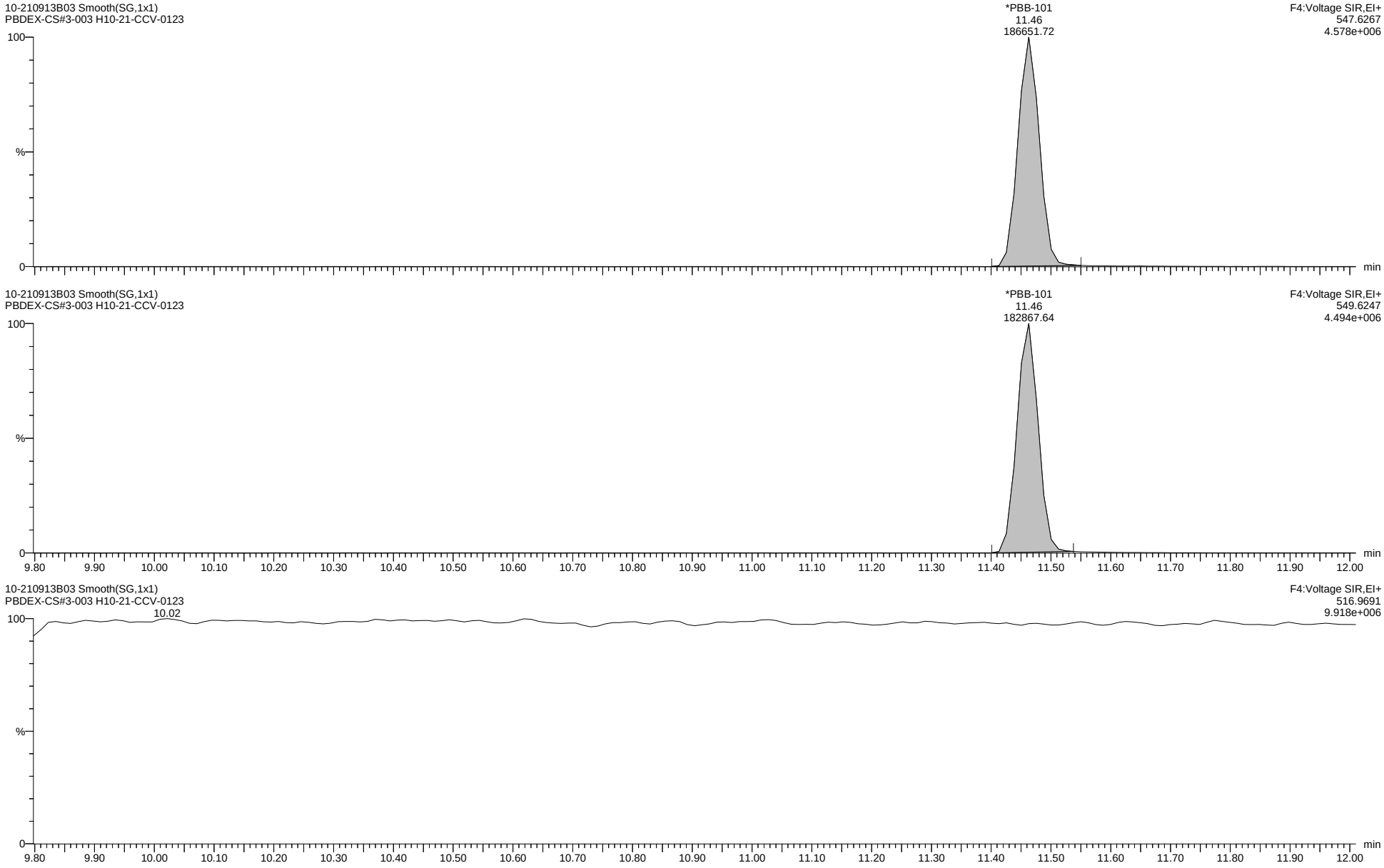

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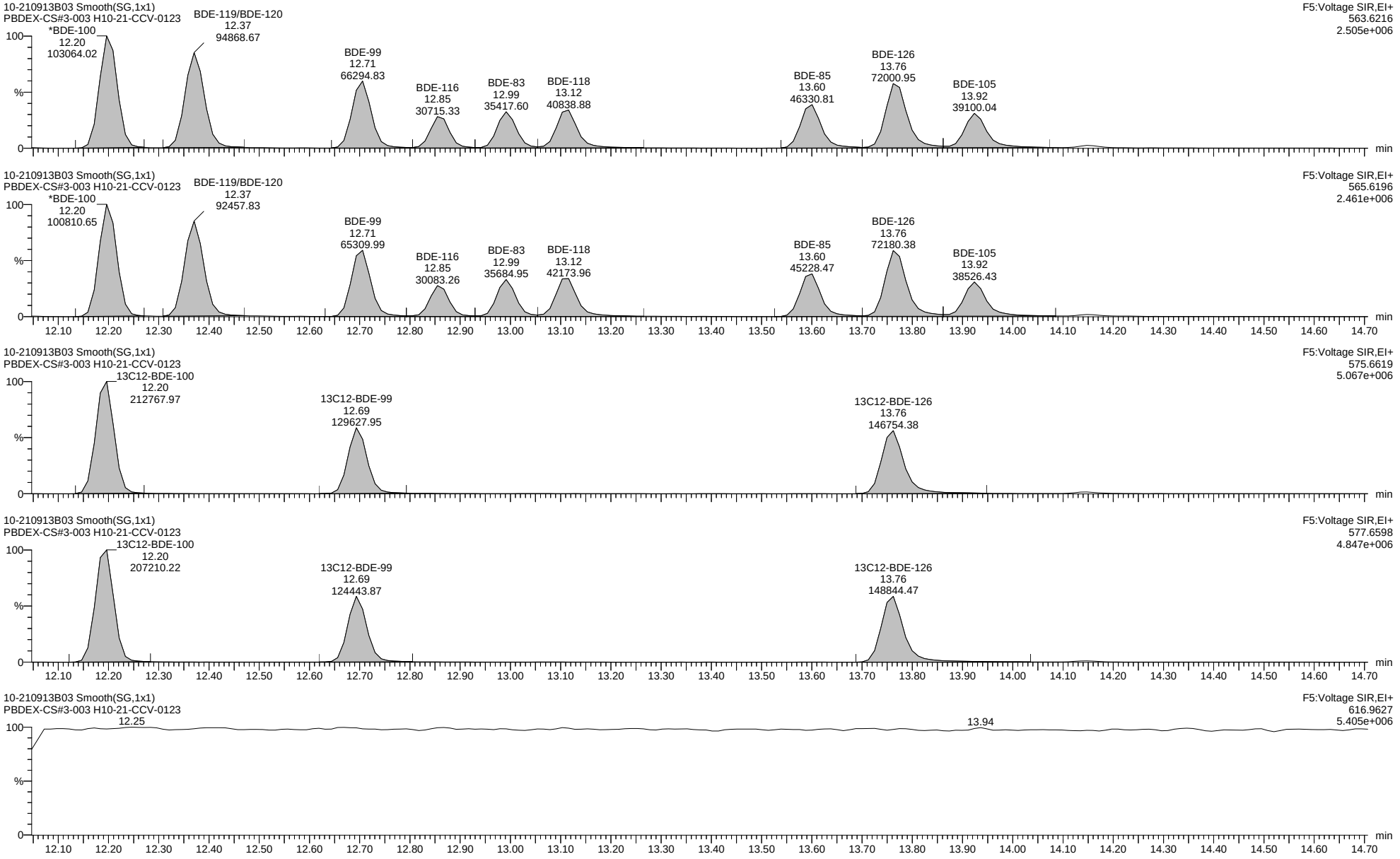

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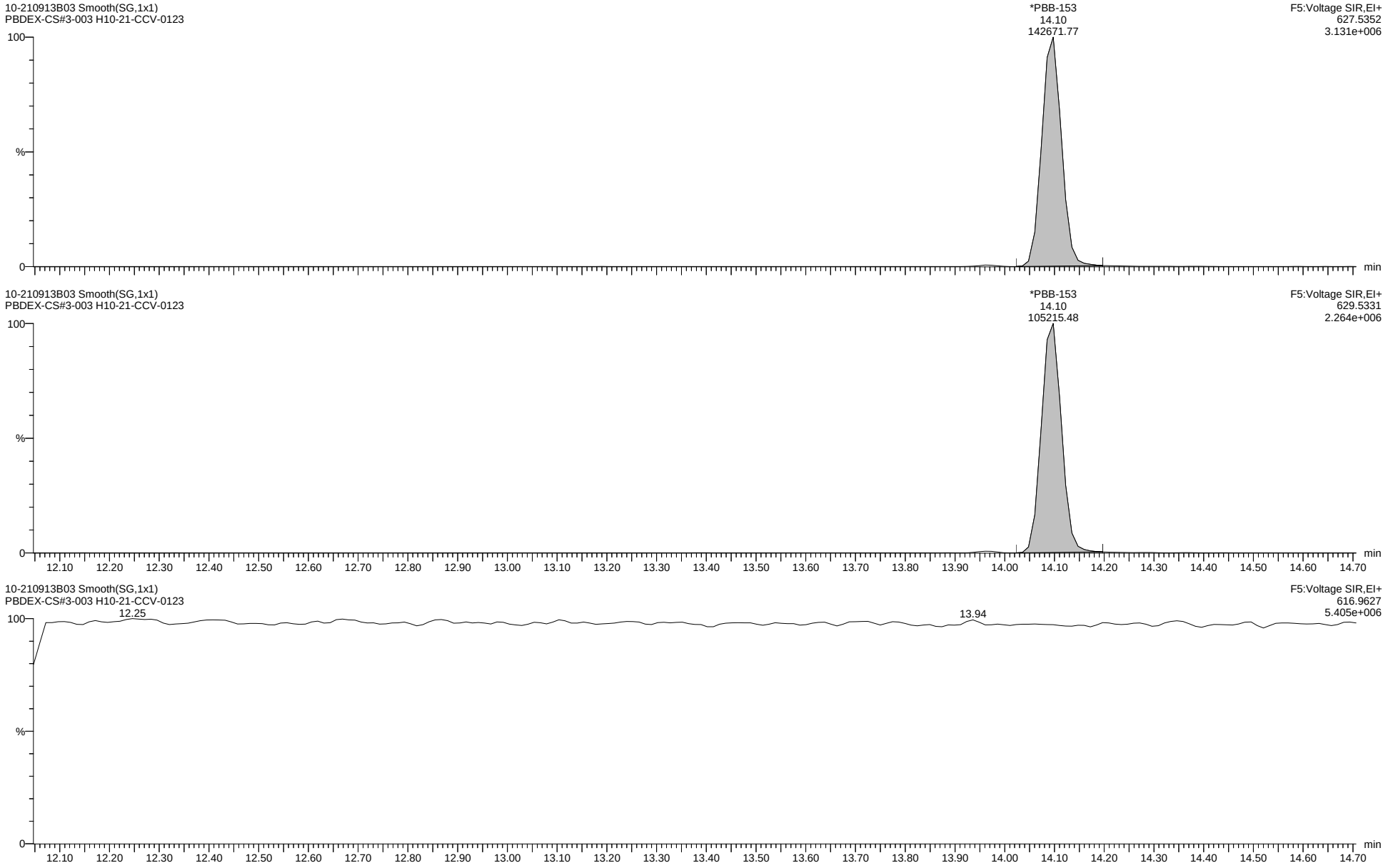

Quantify Sample Template Report **MassLynx MassLynx V4.1 SCN 901**

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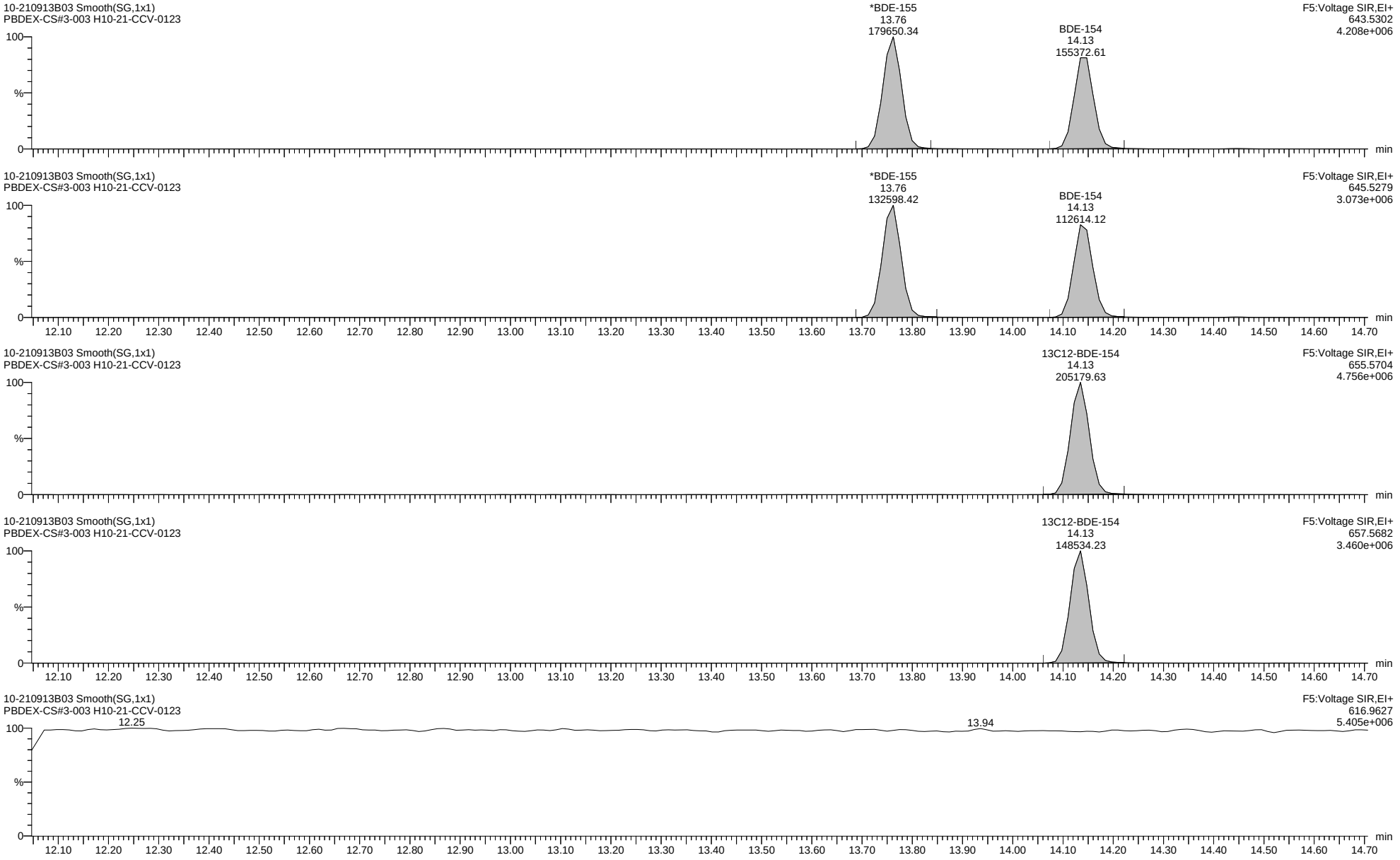

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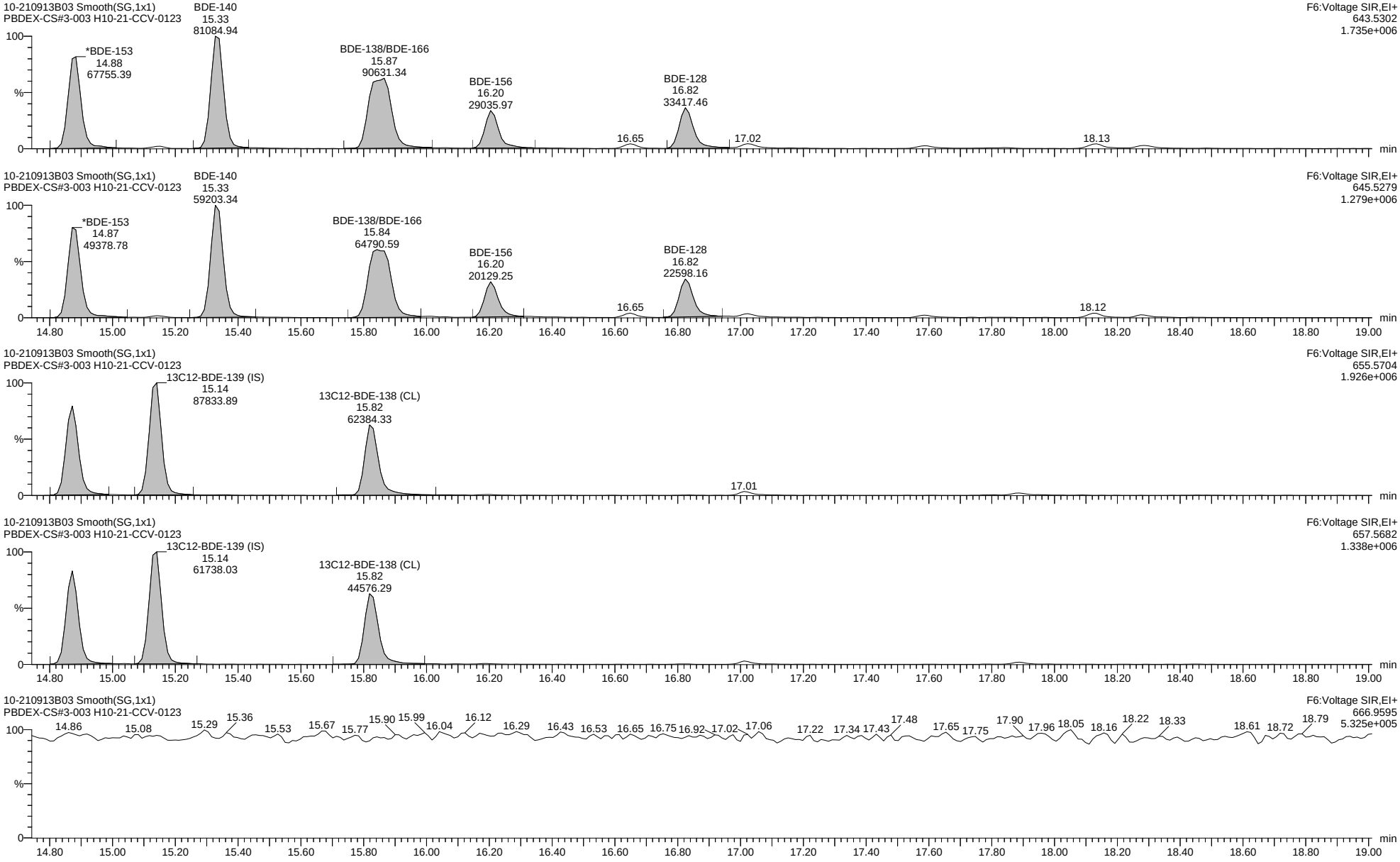

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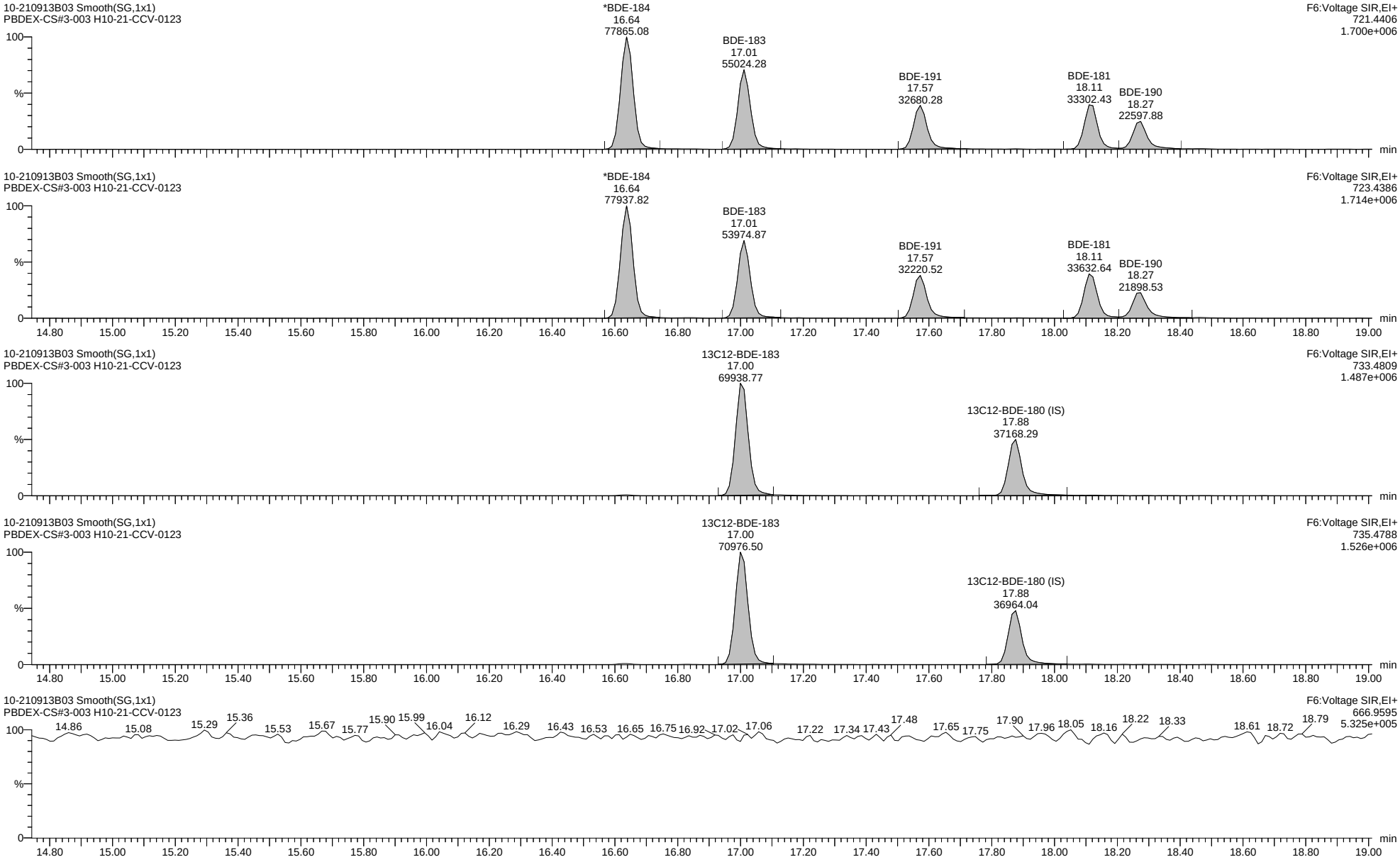

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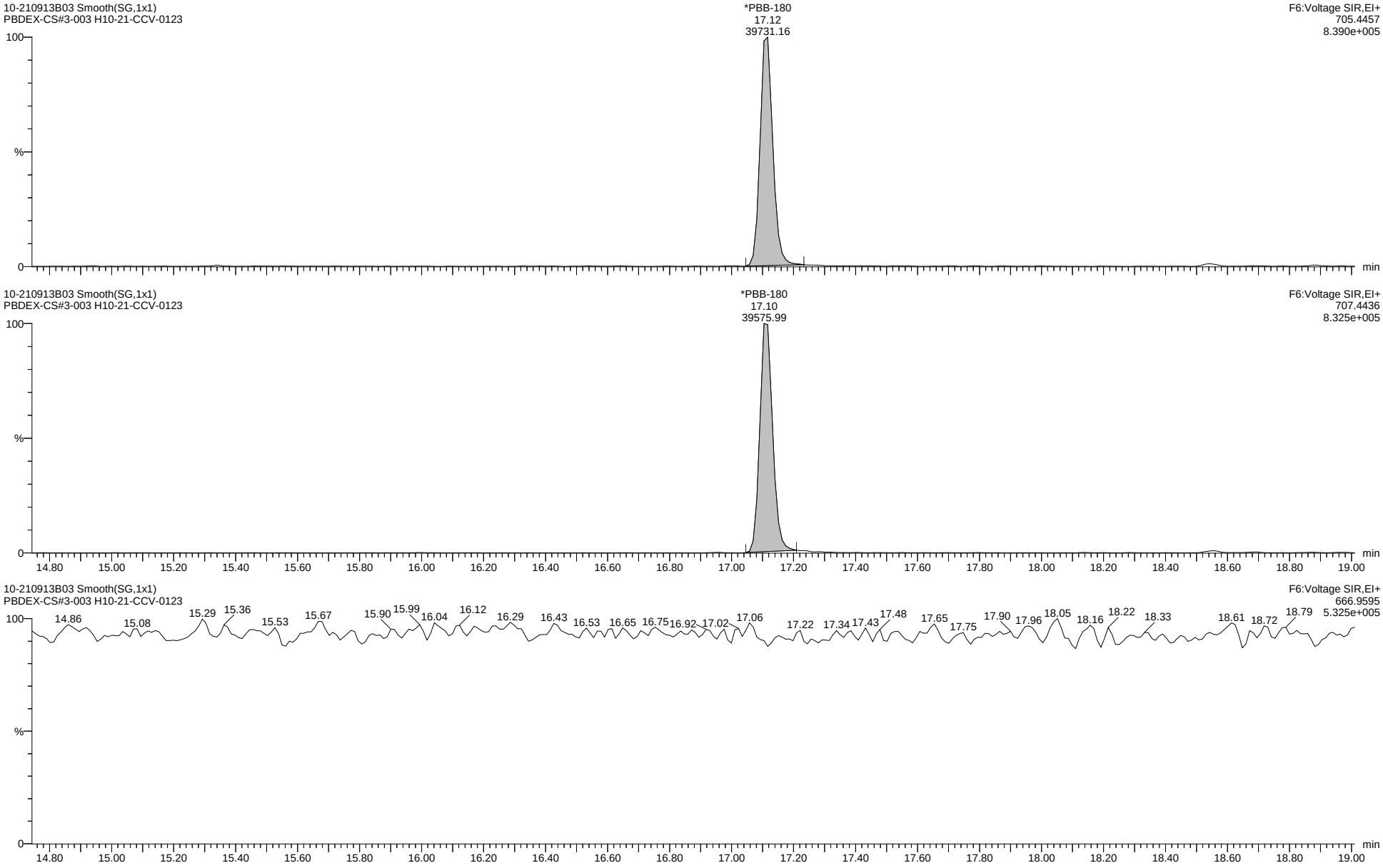

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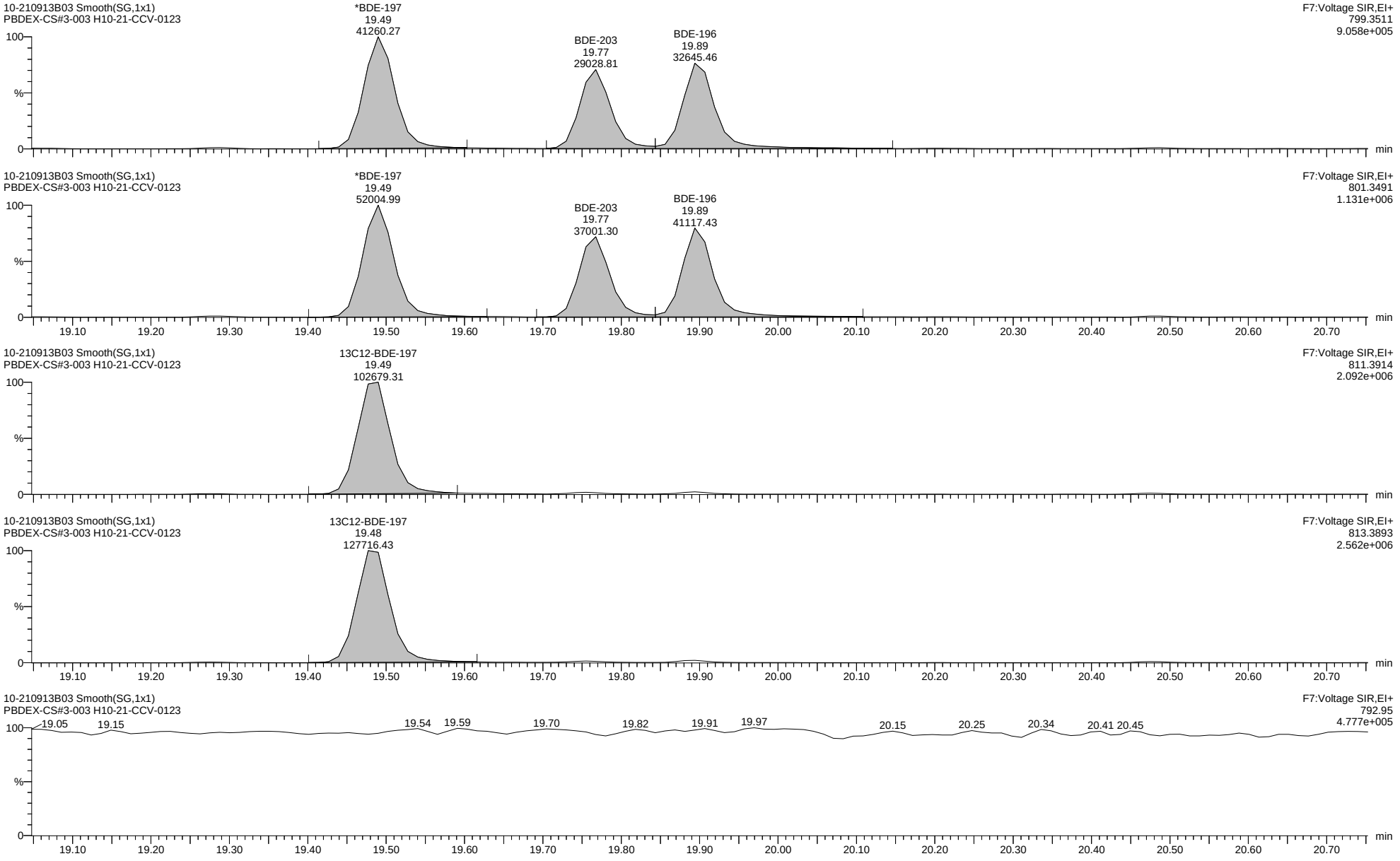

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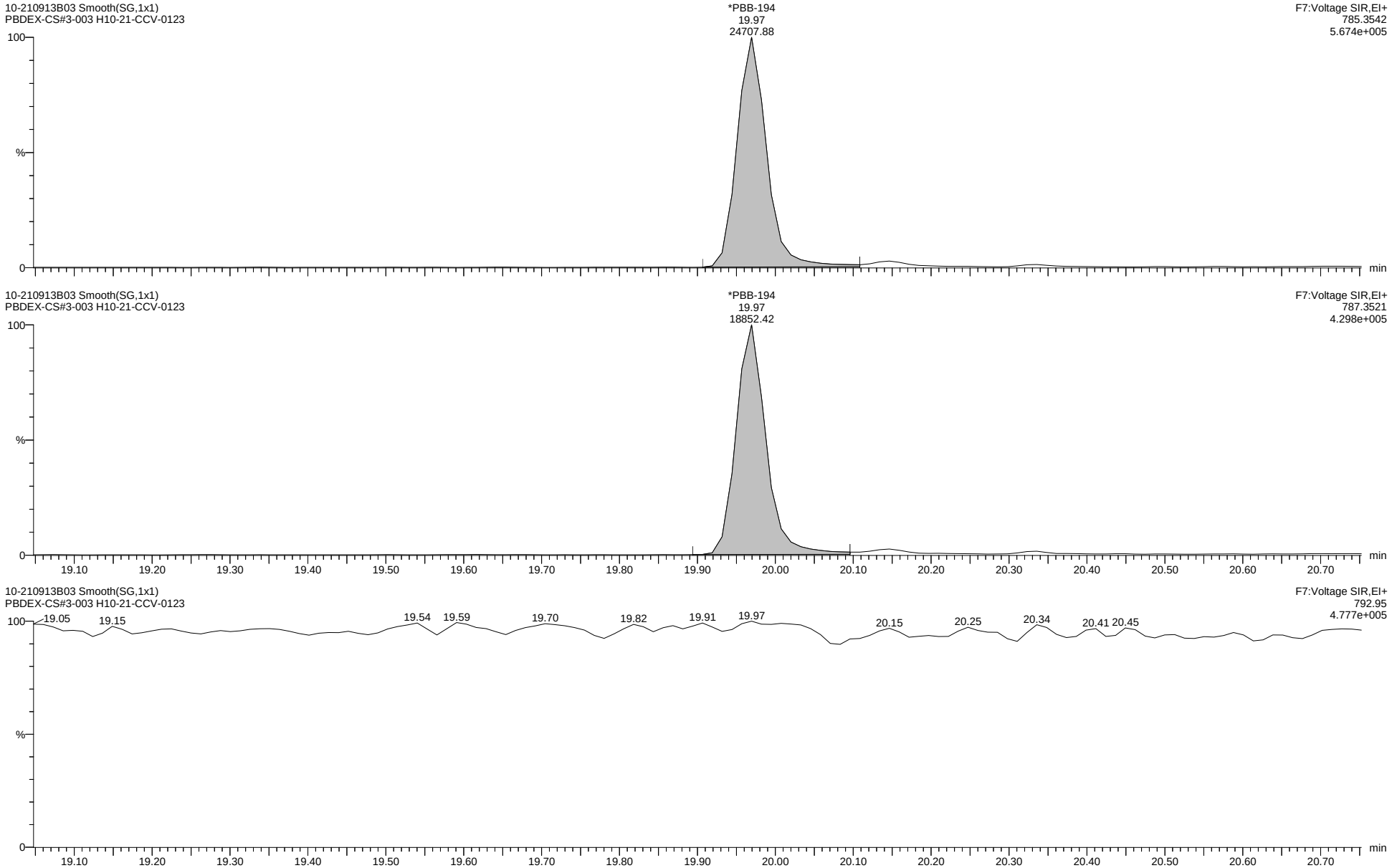

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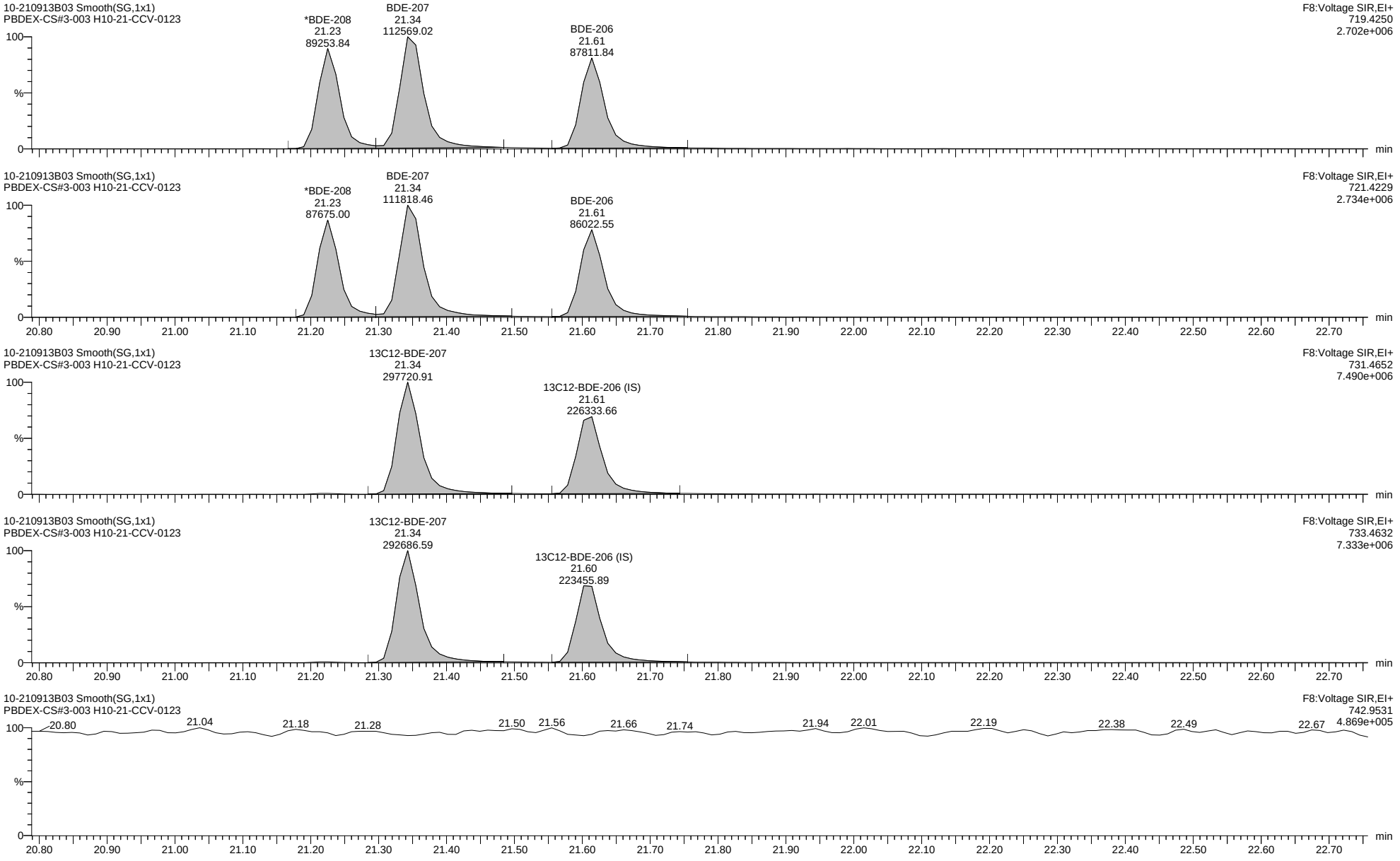

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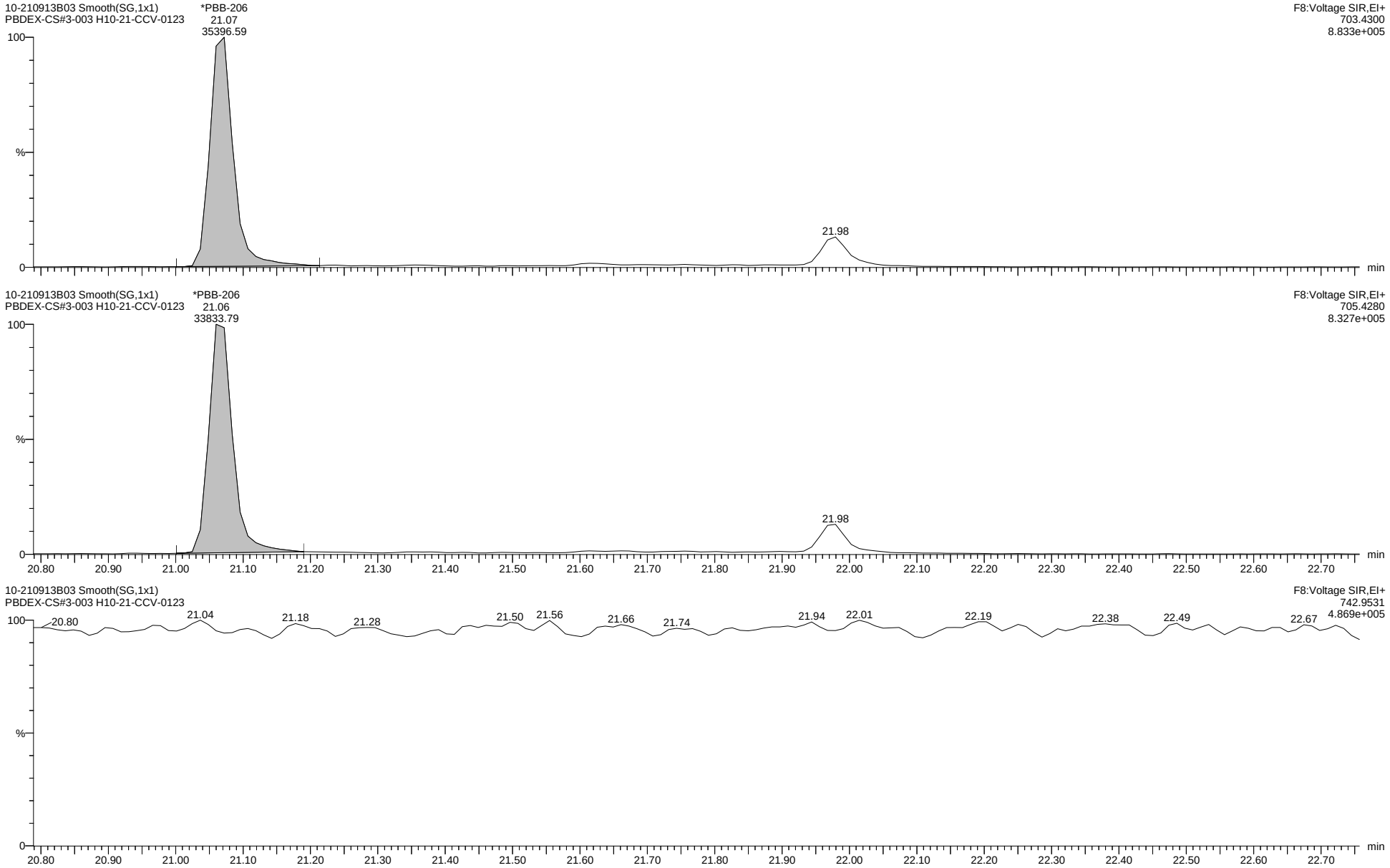

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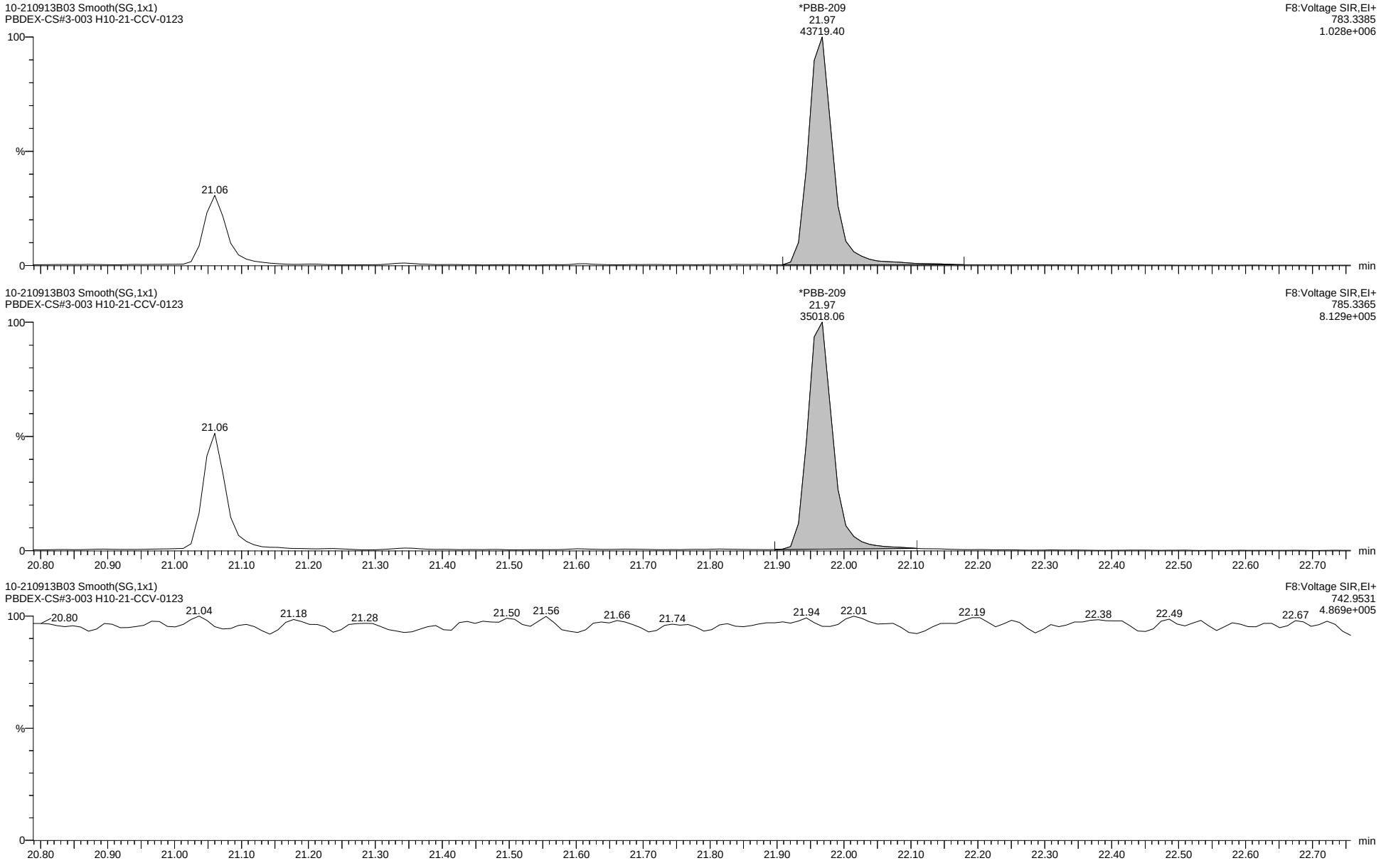

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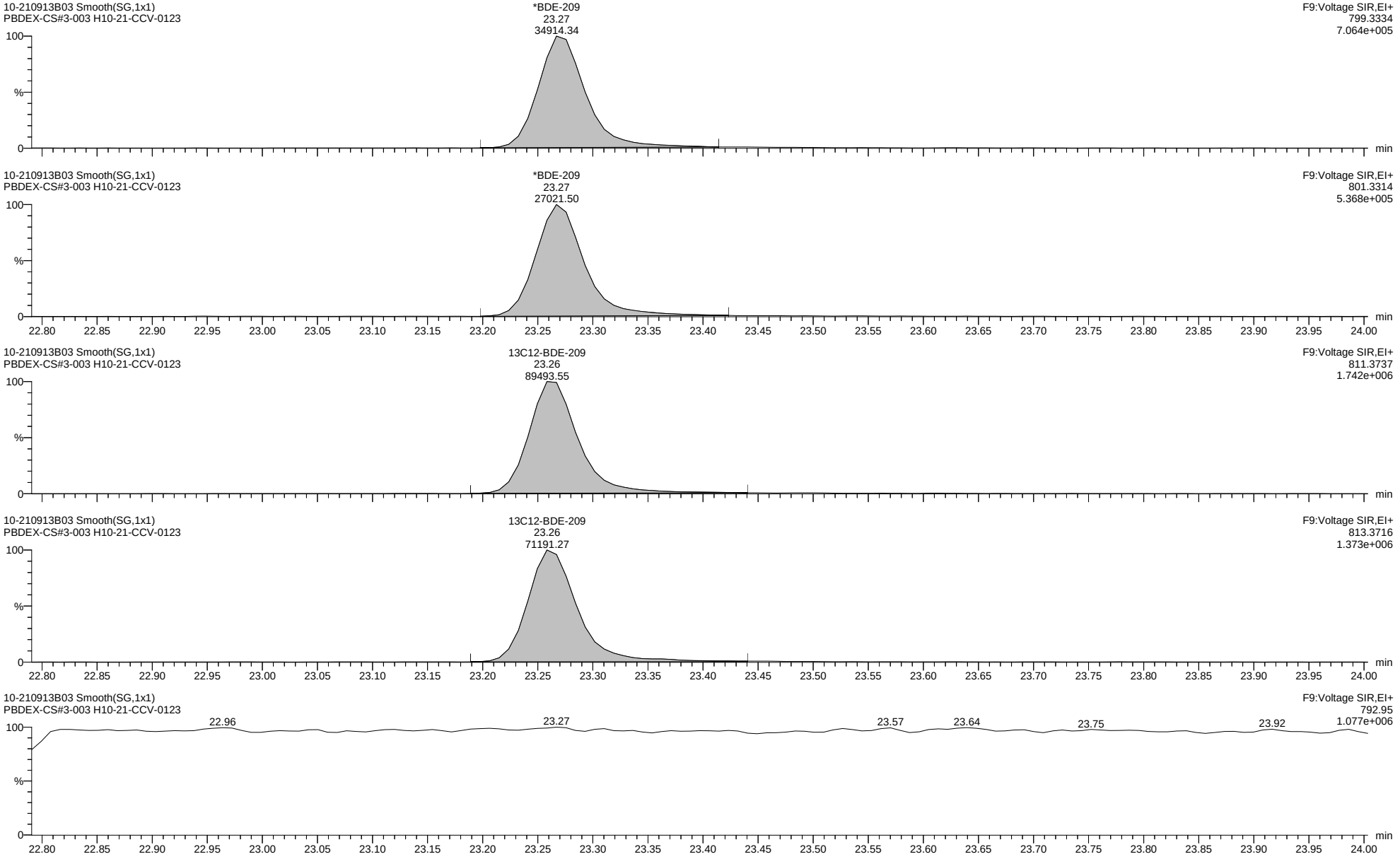

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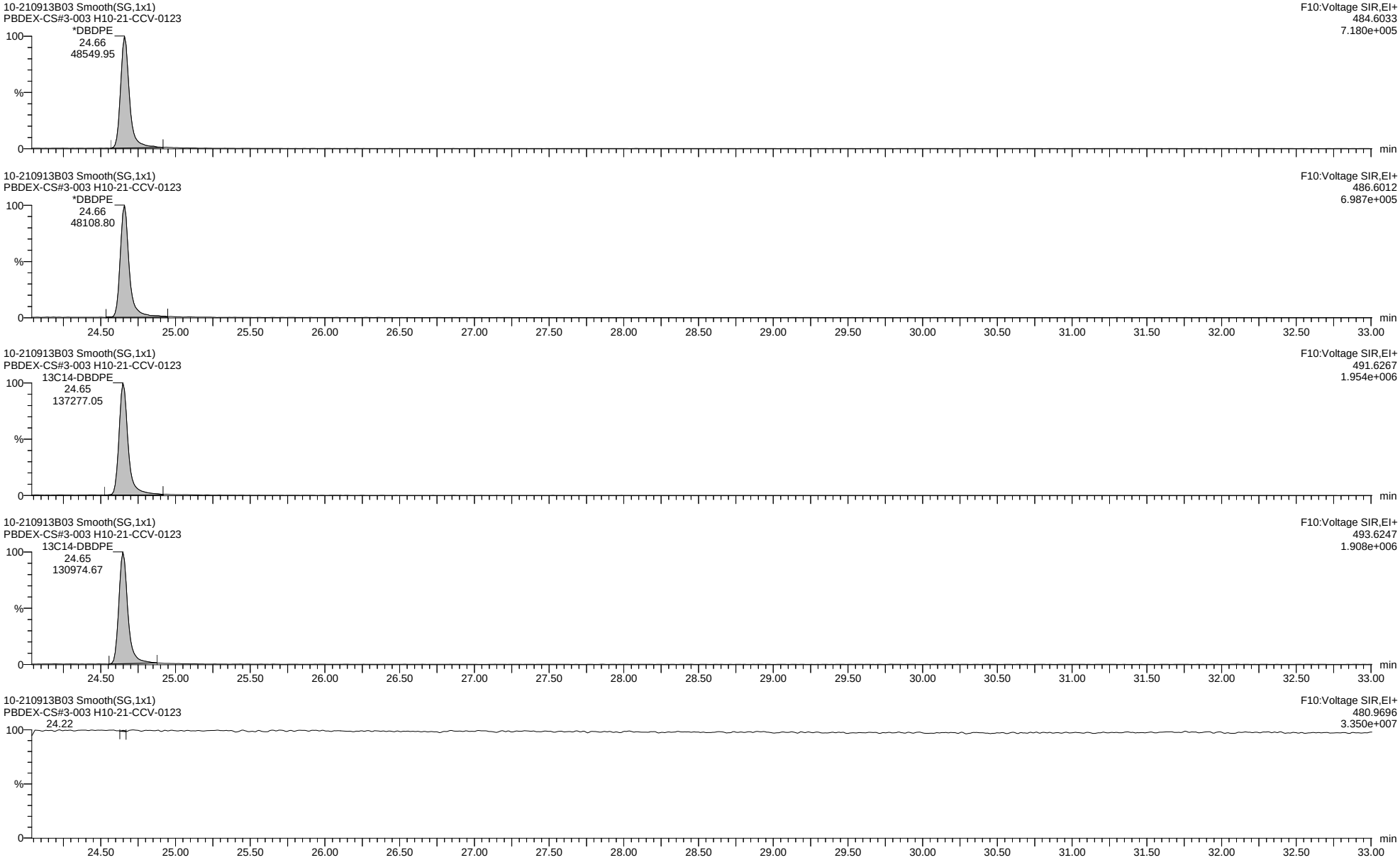

Quantify Sample Template Report **MassLynx MassLynx V4.1 SCN 901**

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Calibration: C:\MassLynx\PBDE.PRO\CurveDB\10-210913B-ICAL-PBDE.cdb 14 Sep 2021 11:07:06

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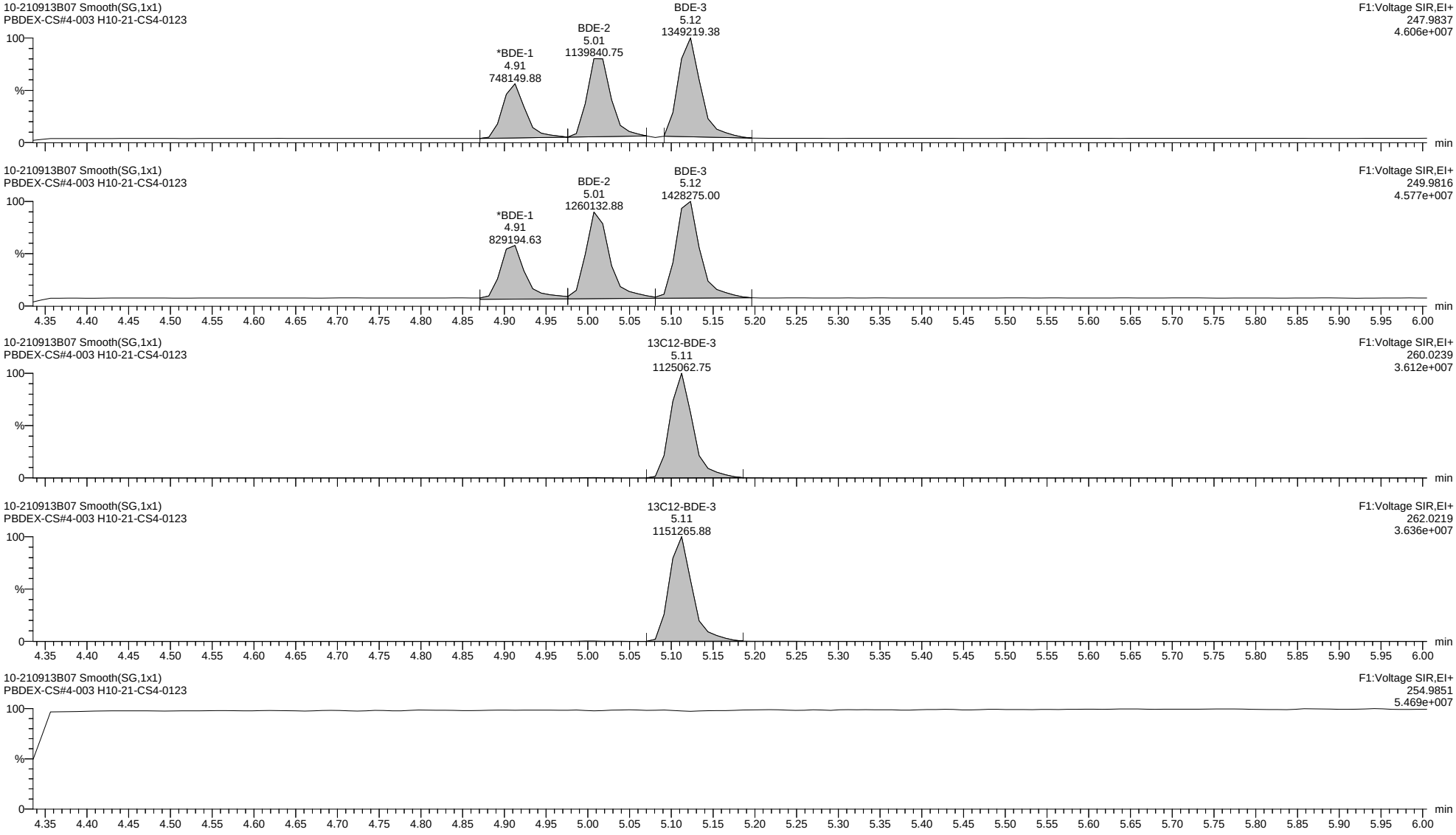

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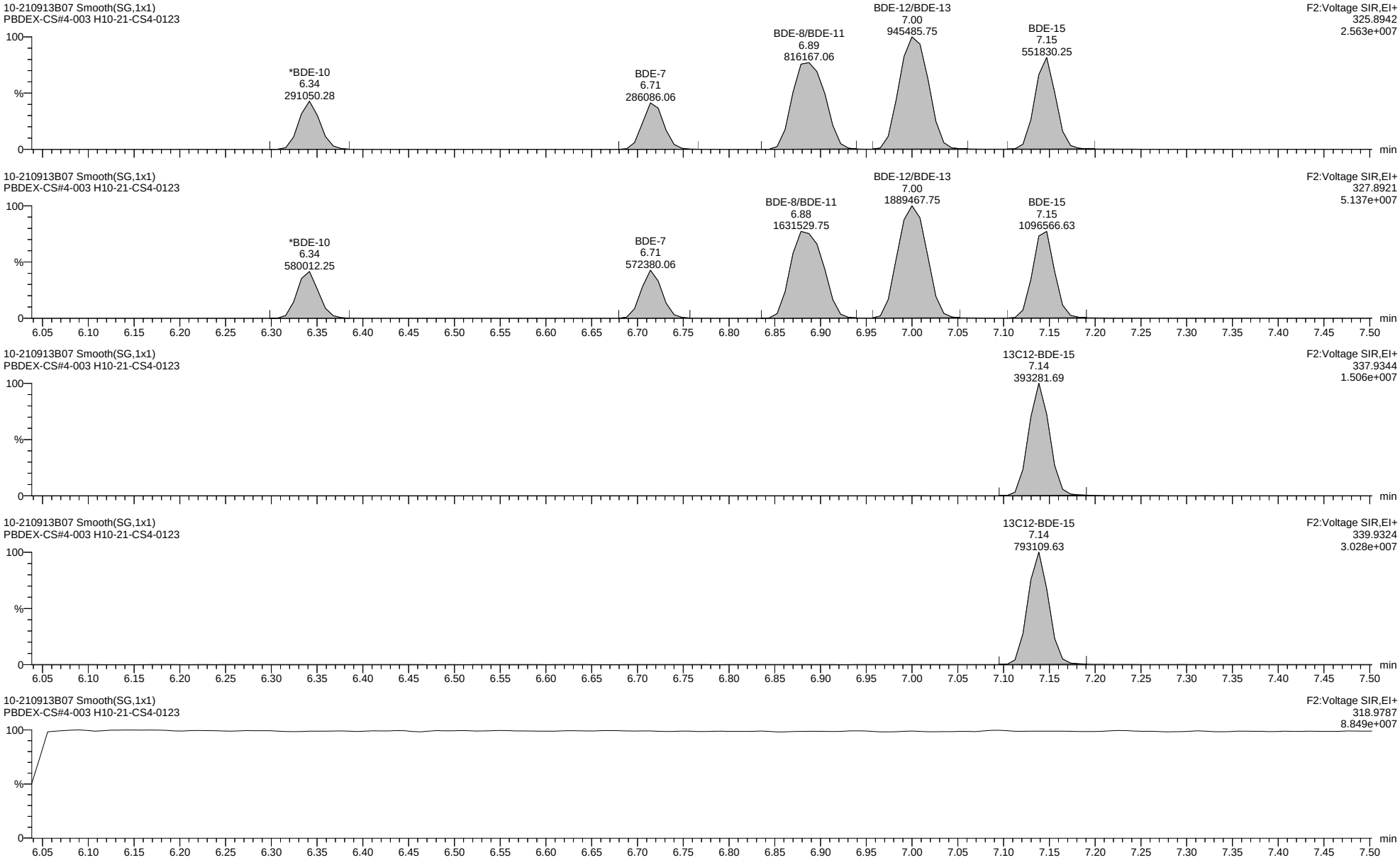

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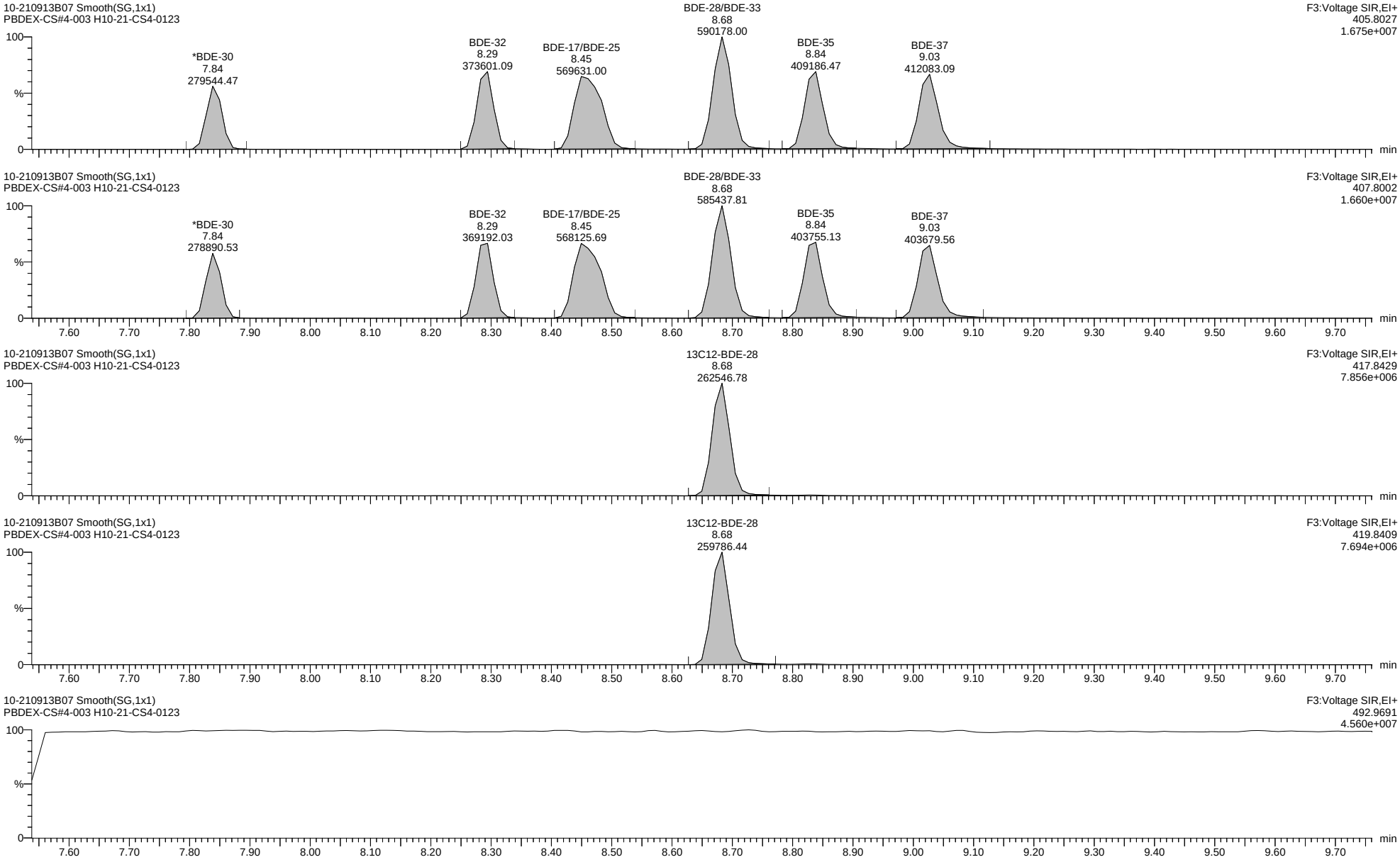

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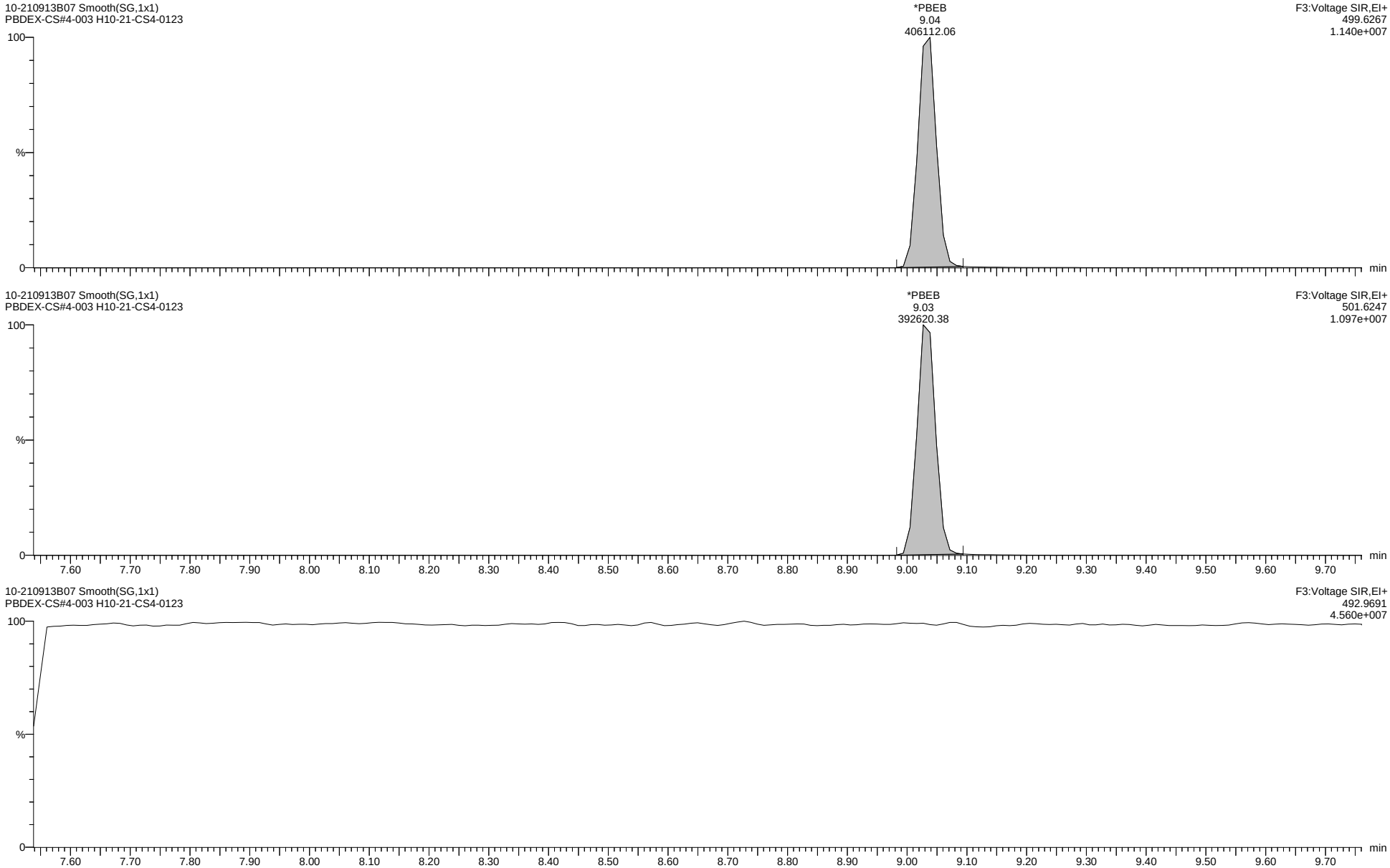

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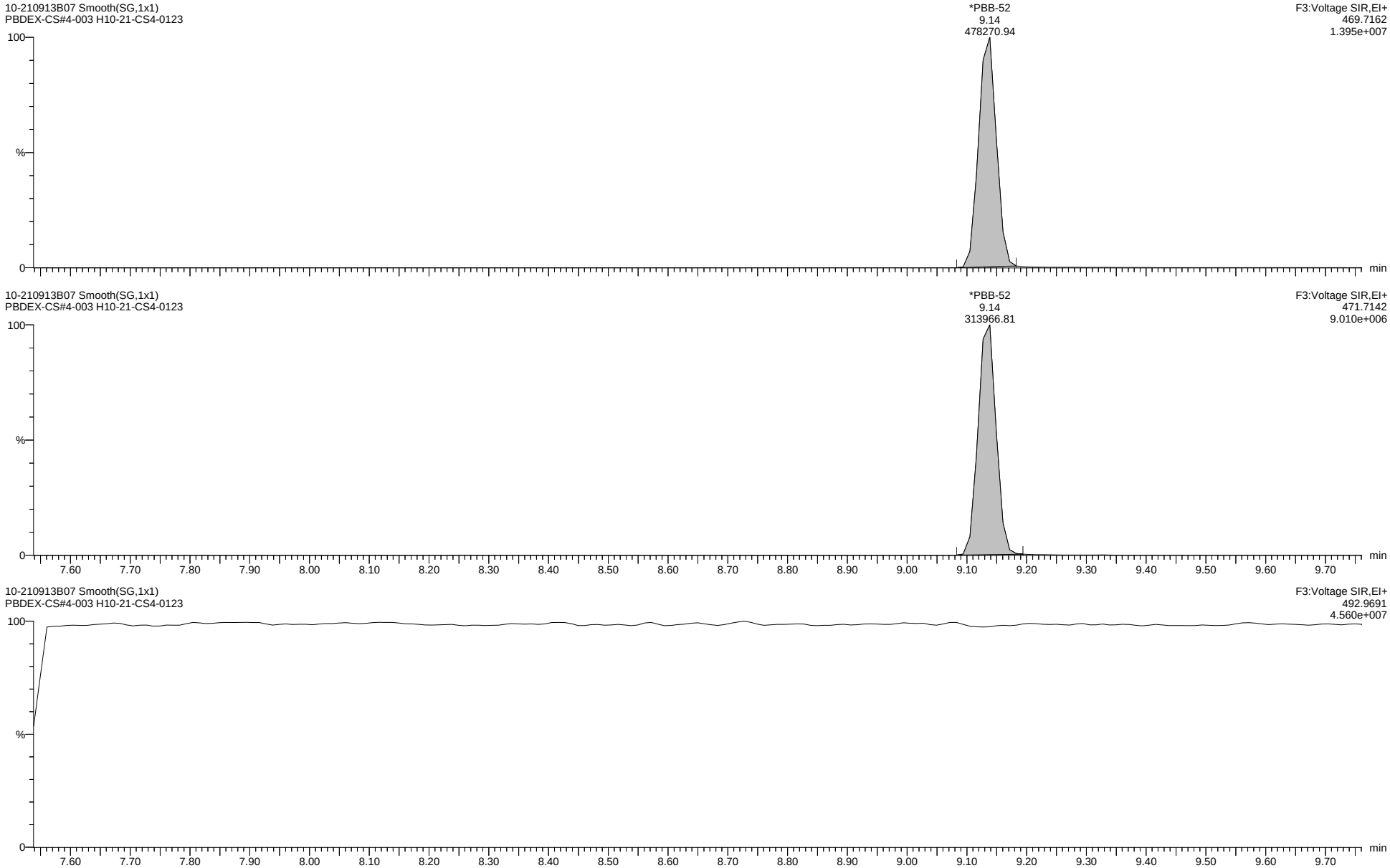

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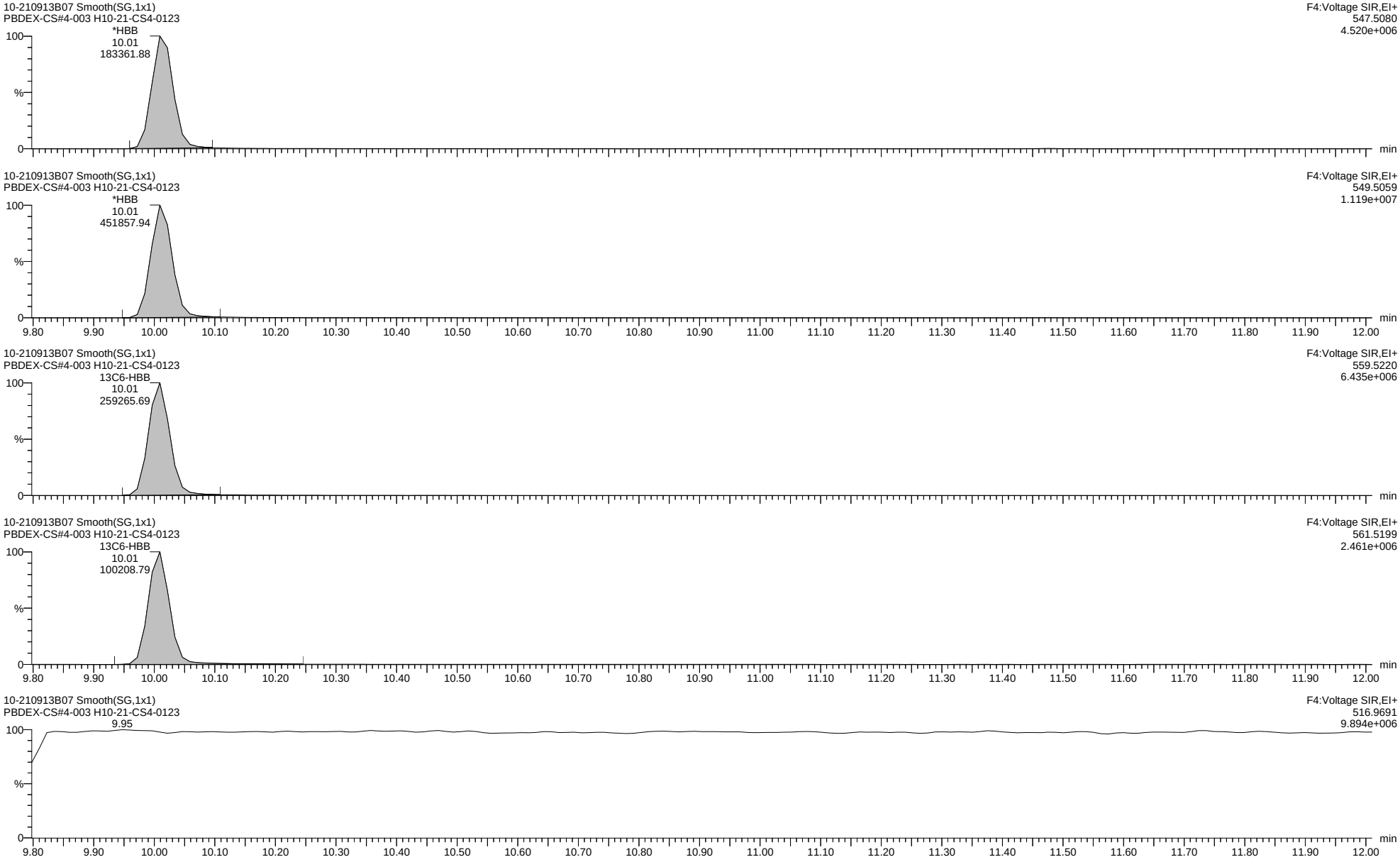

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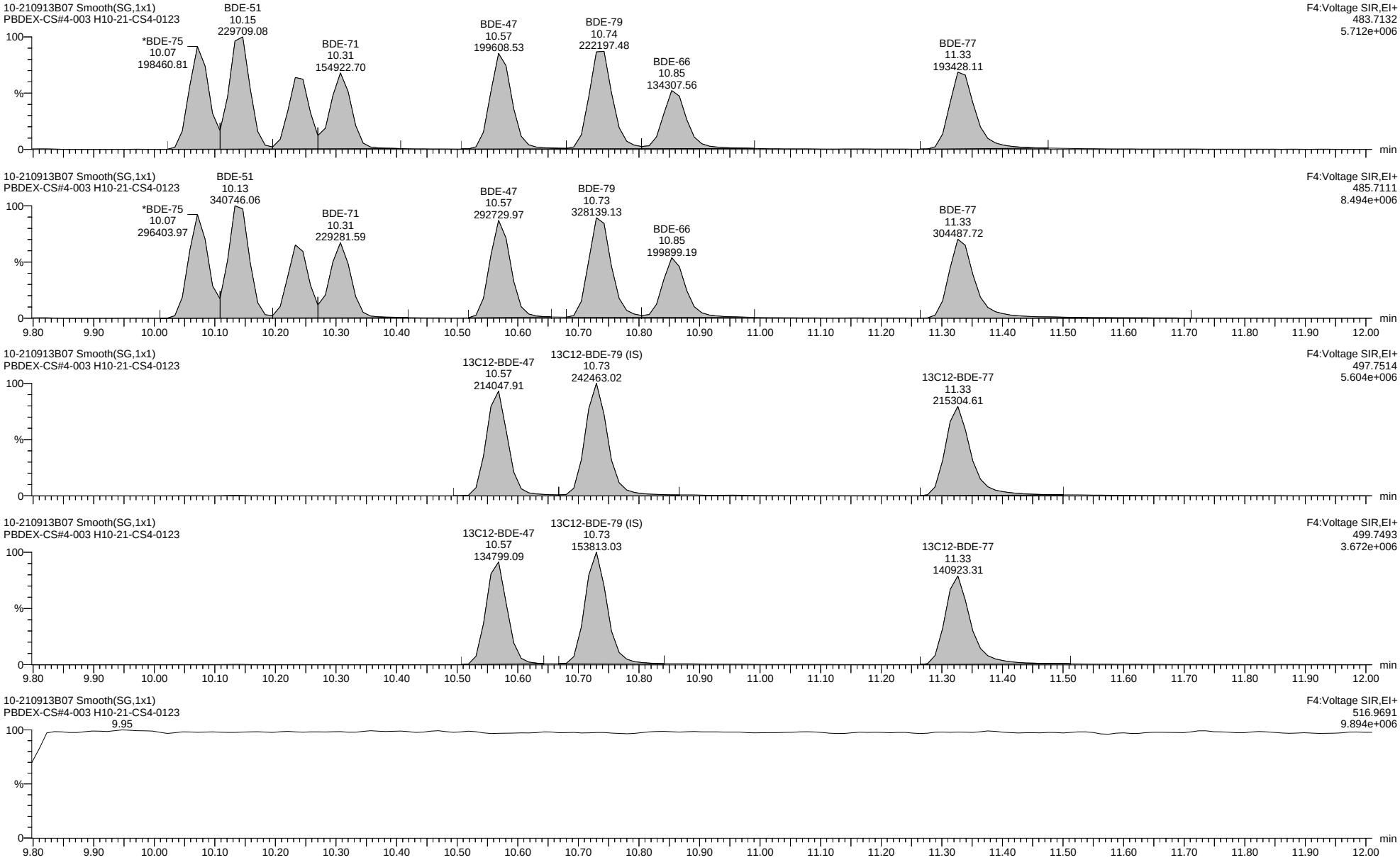

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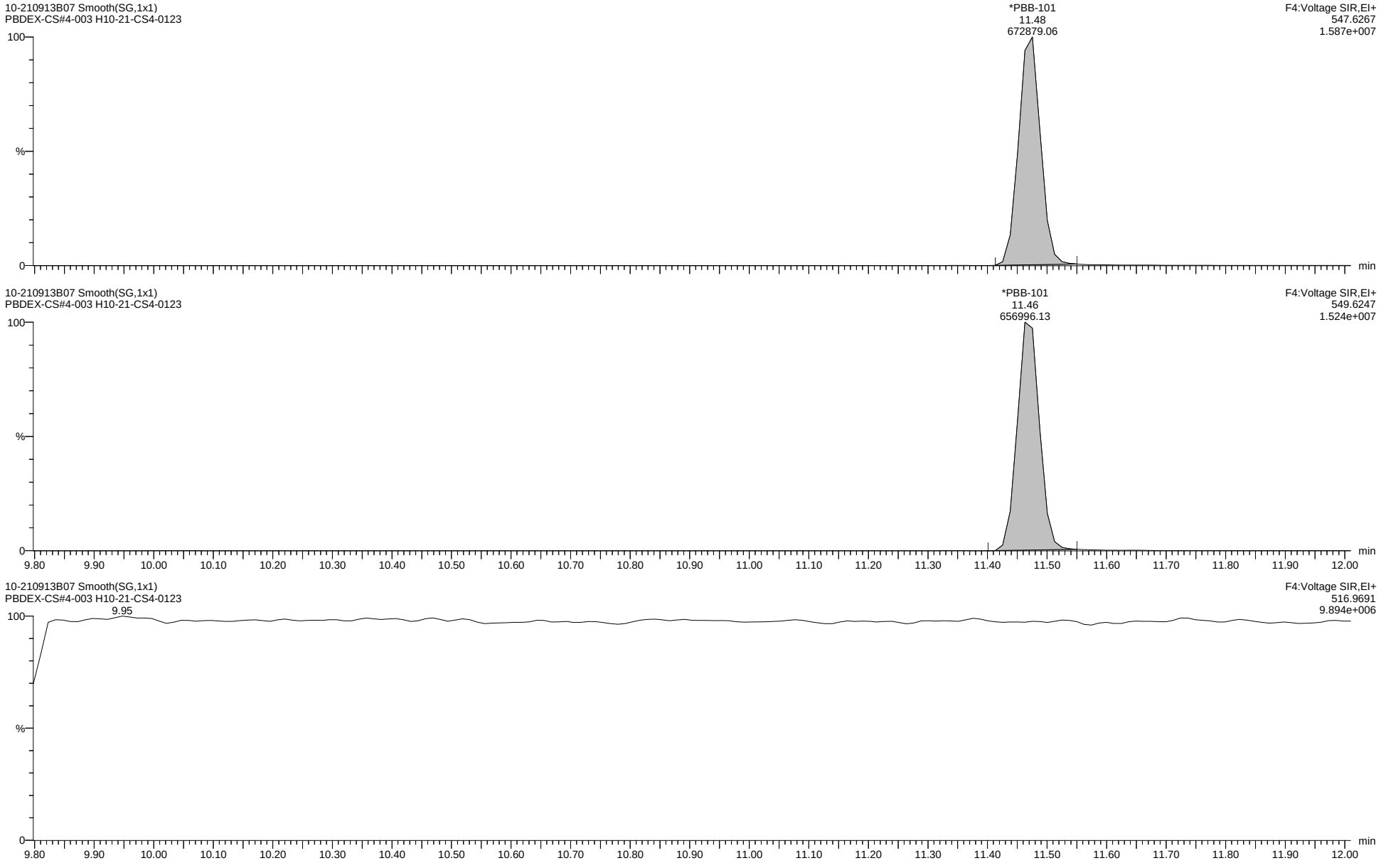

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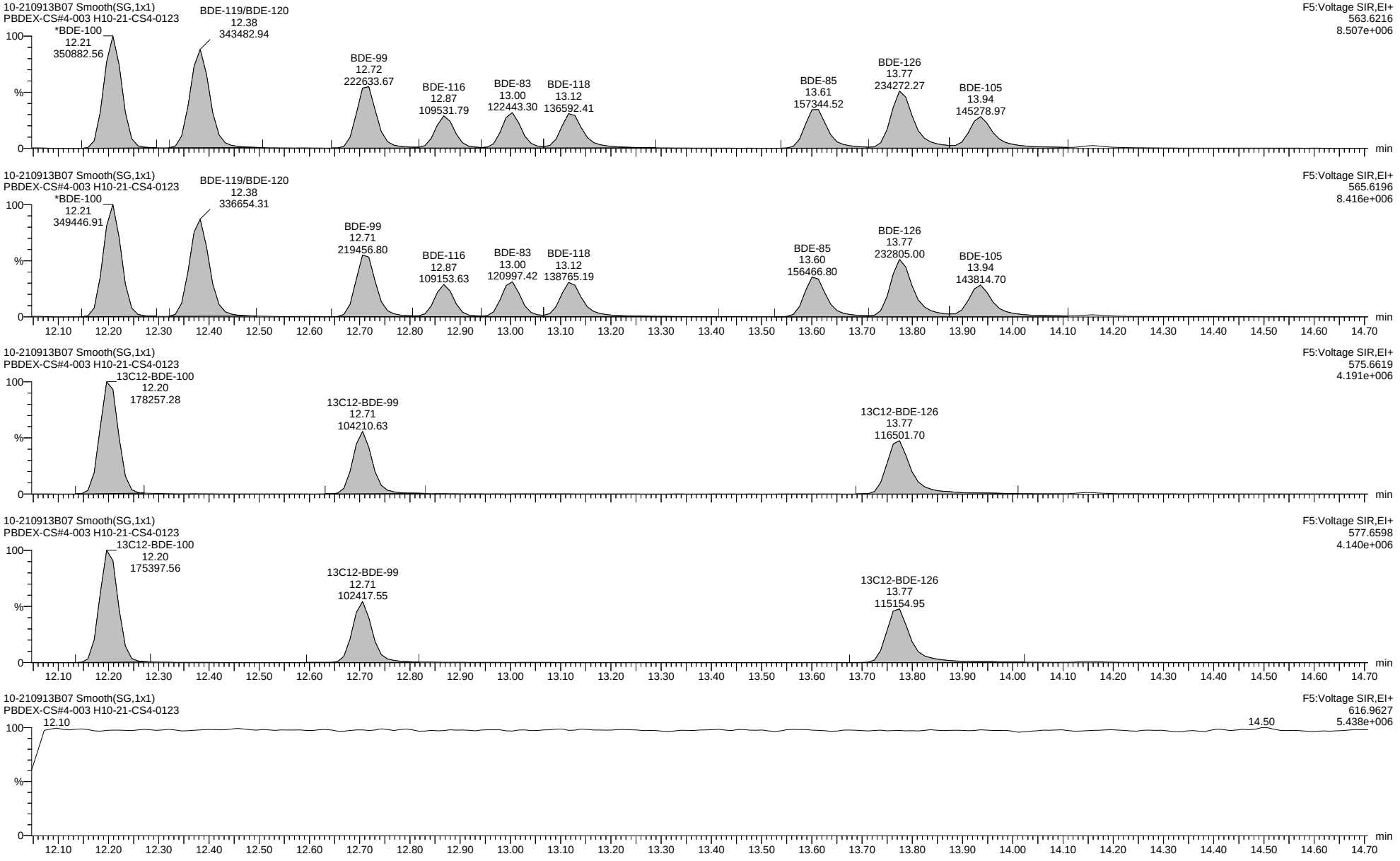

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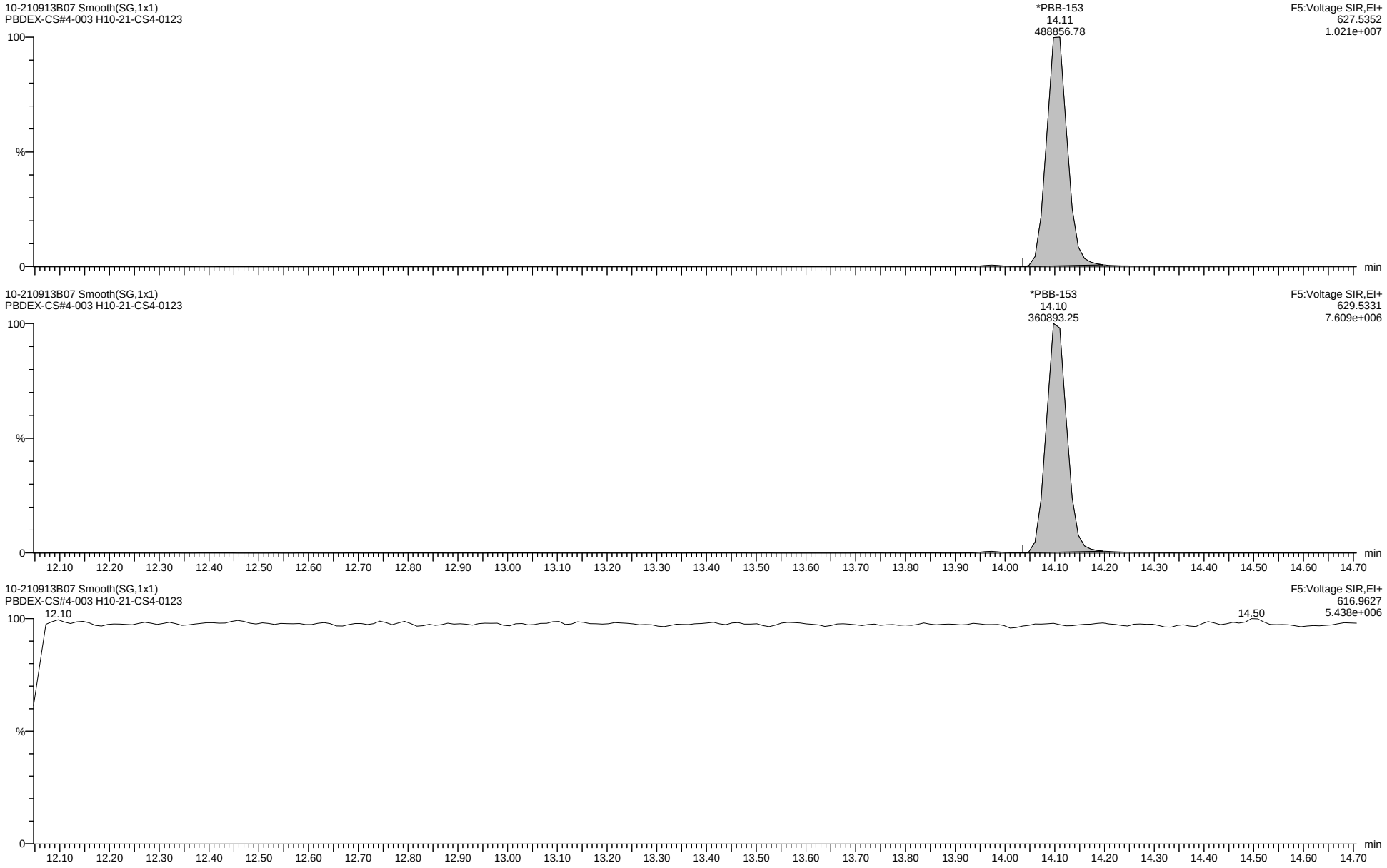

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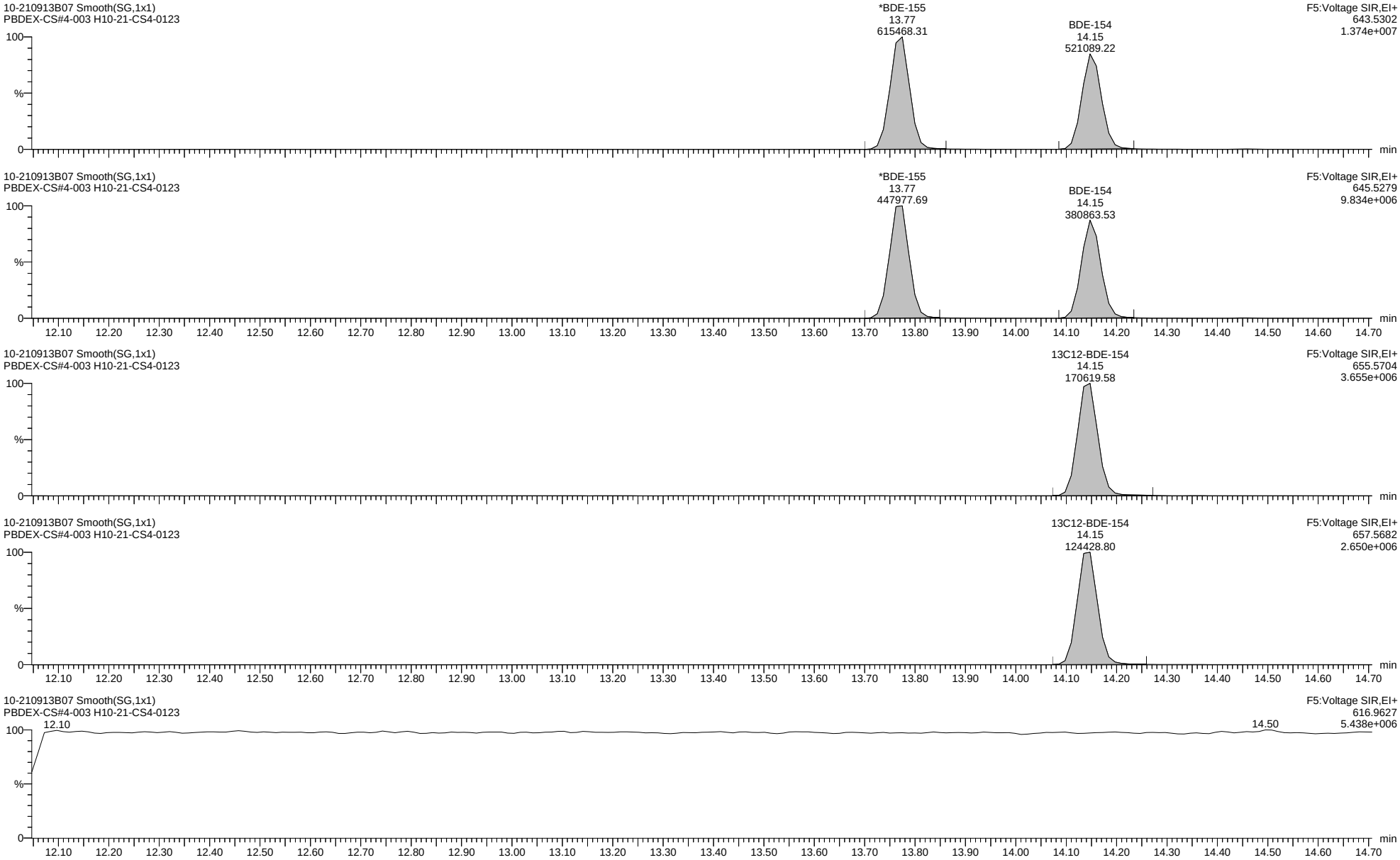

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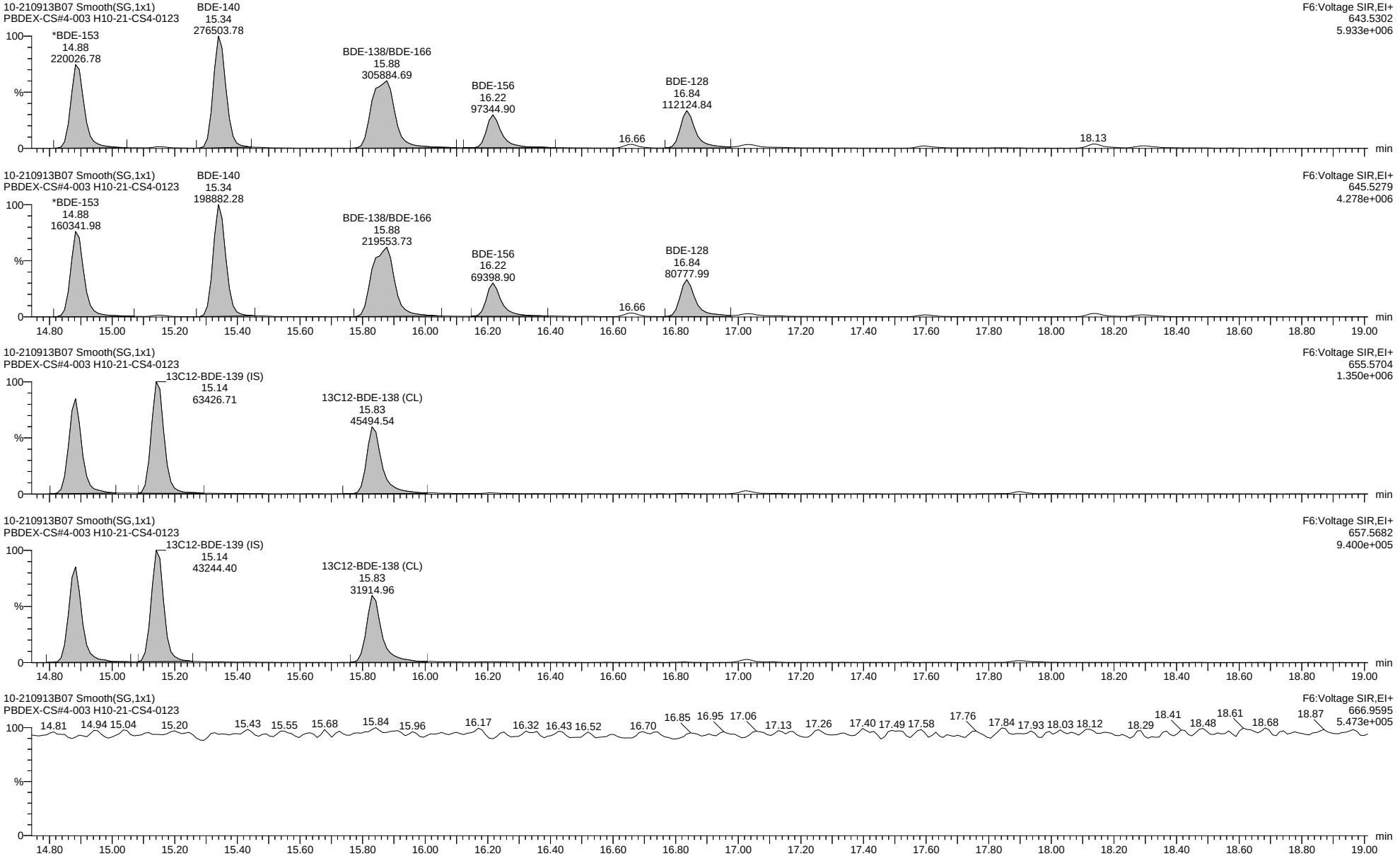

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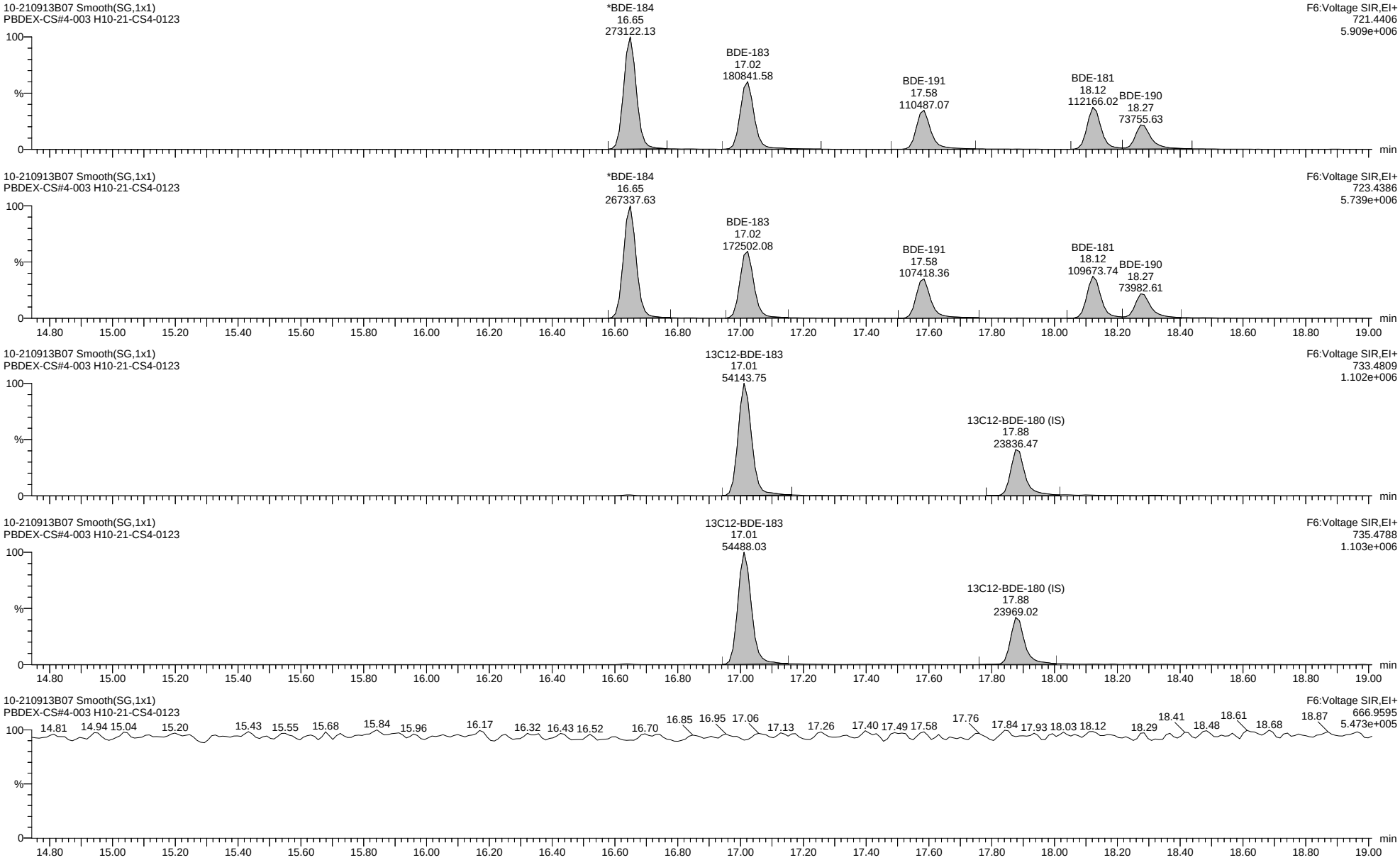

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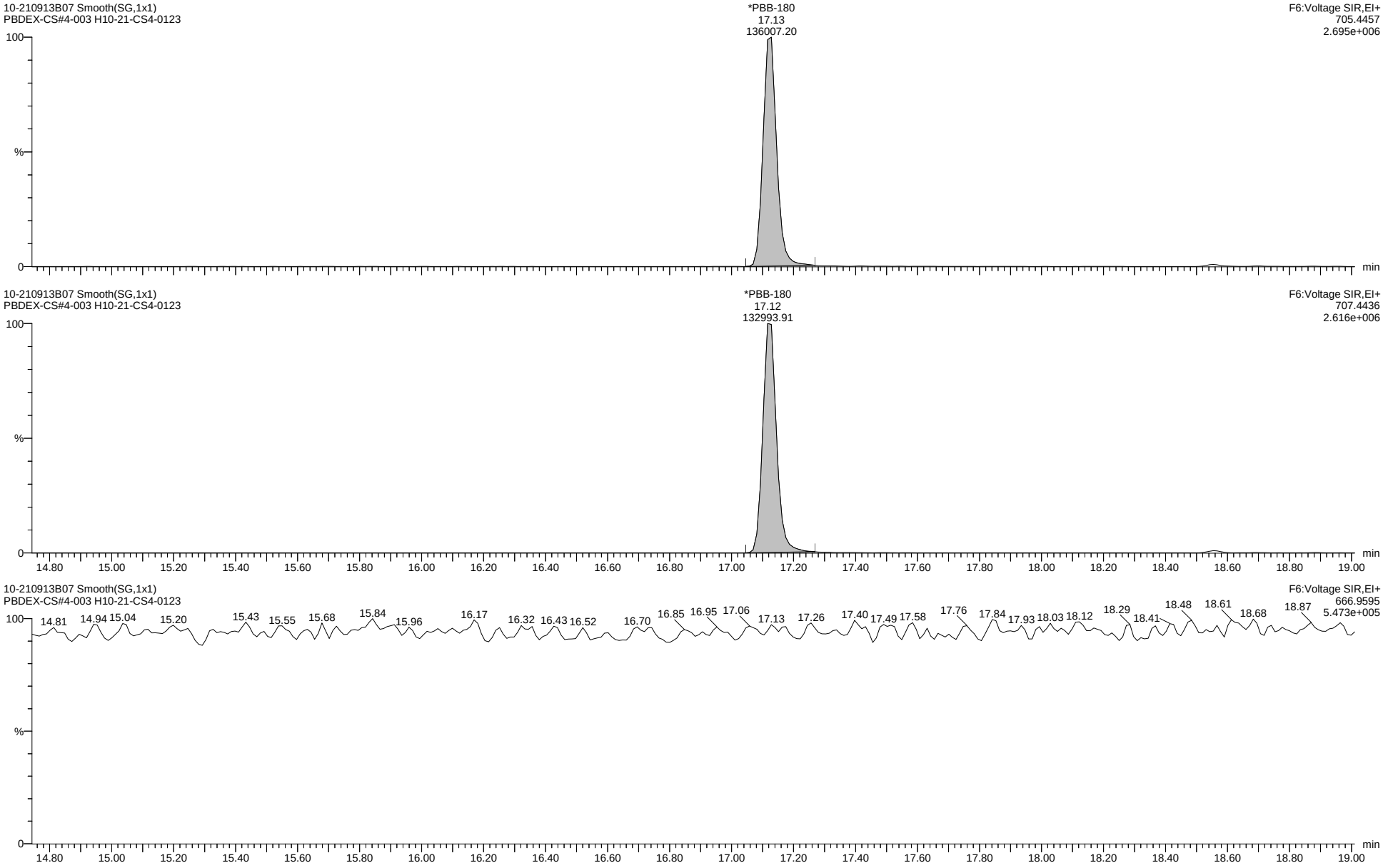

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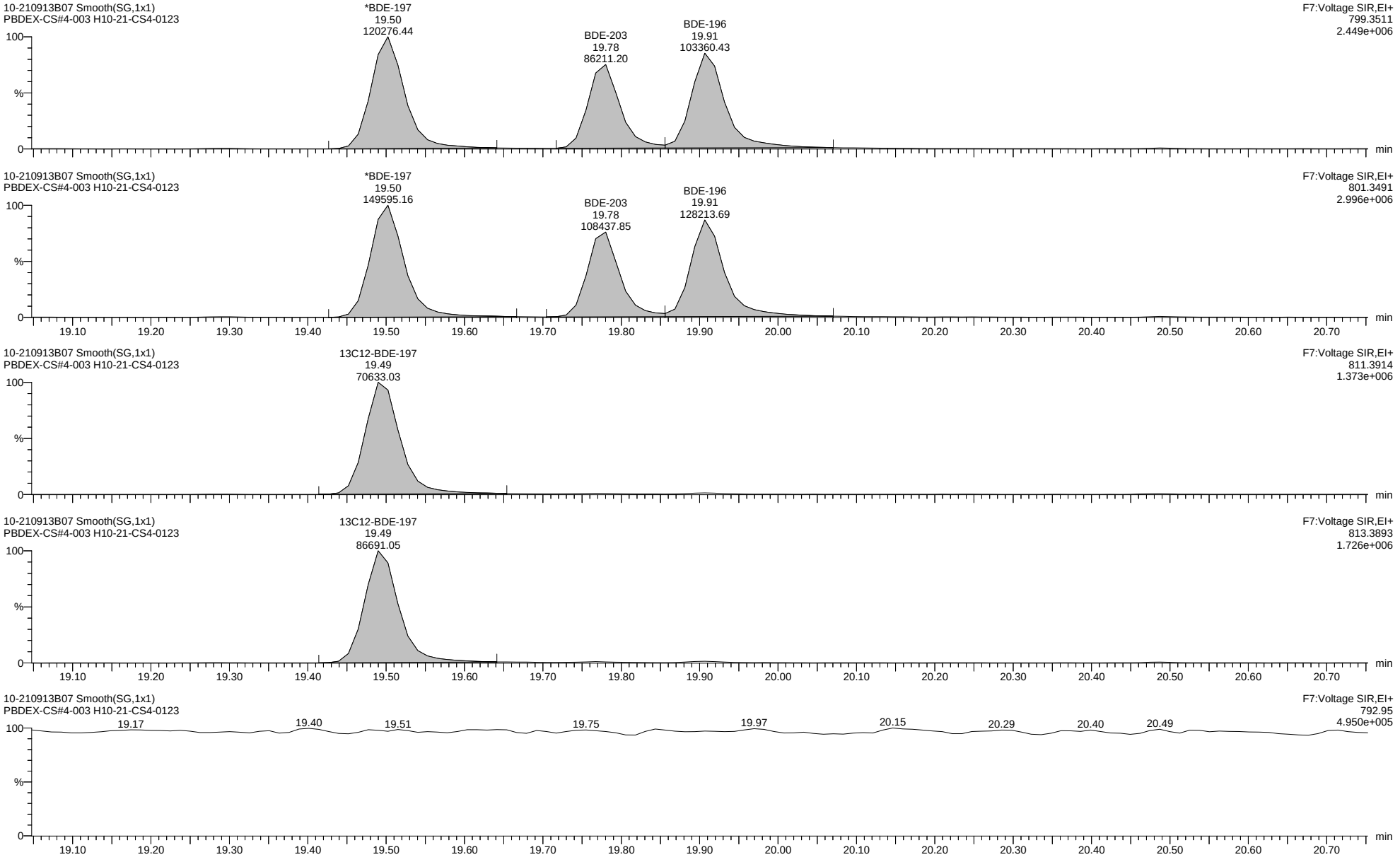

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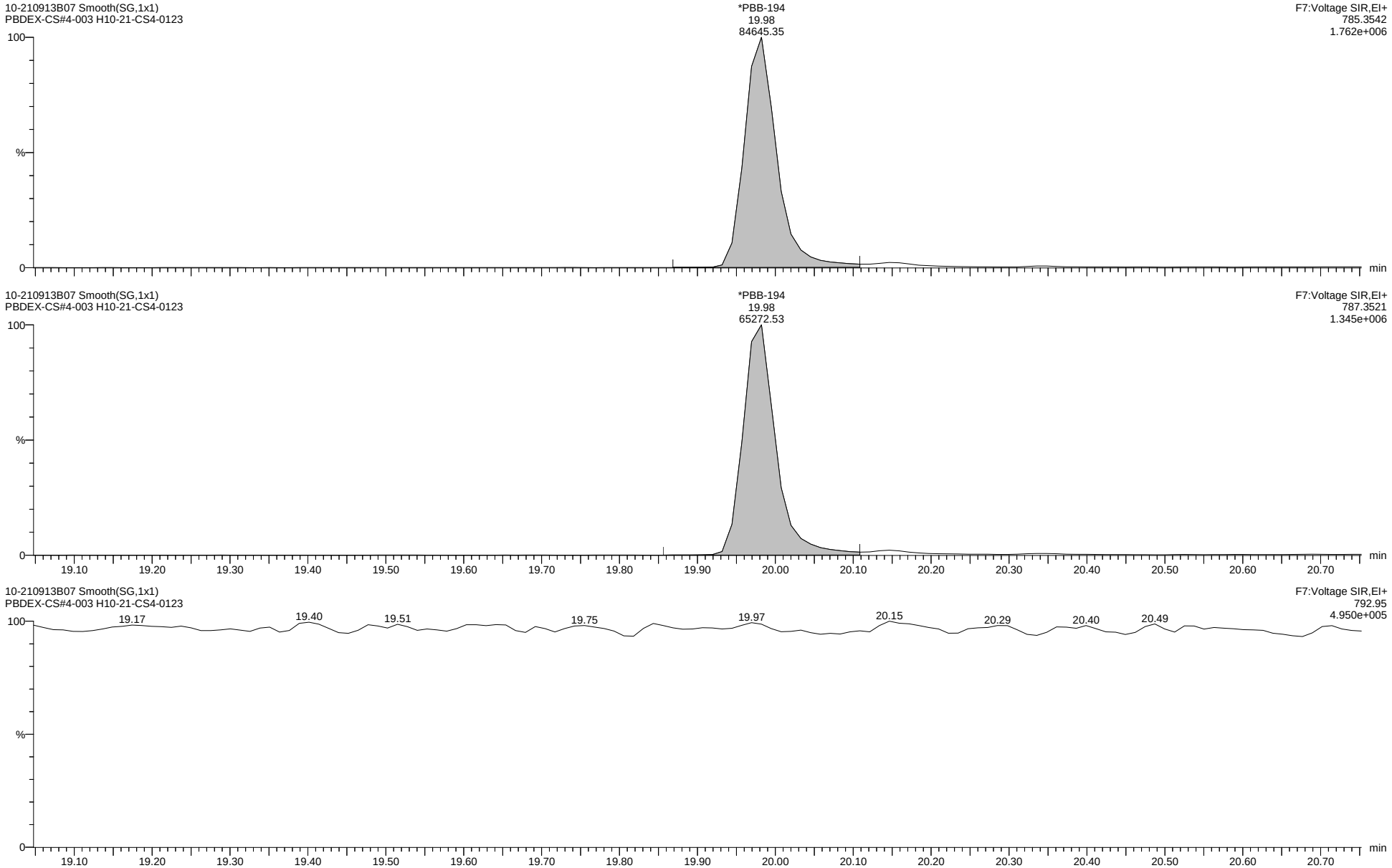
Printed: Friday, September 17, 2021 10:50:04 Eastern Daylight Time

Name: 10-210913B07, Date: 13-Sep-2021, Time: 20:42:01, ID: H10-21-CS4-0123, Description: PBDEX-CS#4-003, Vial: Tray1:4

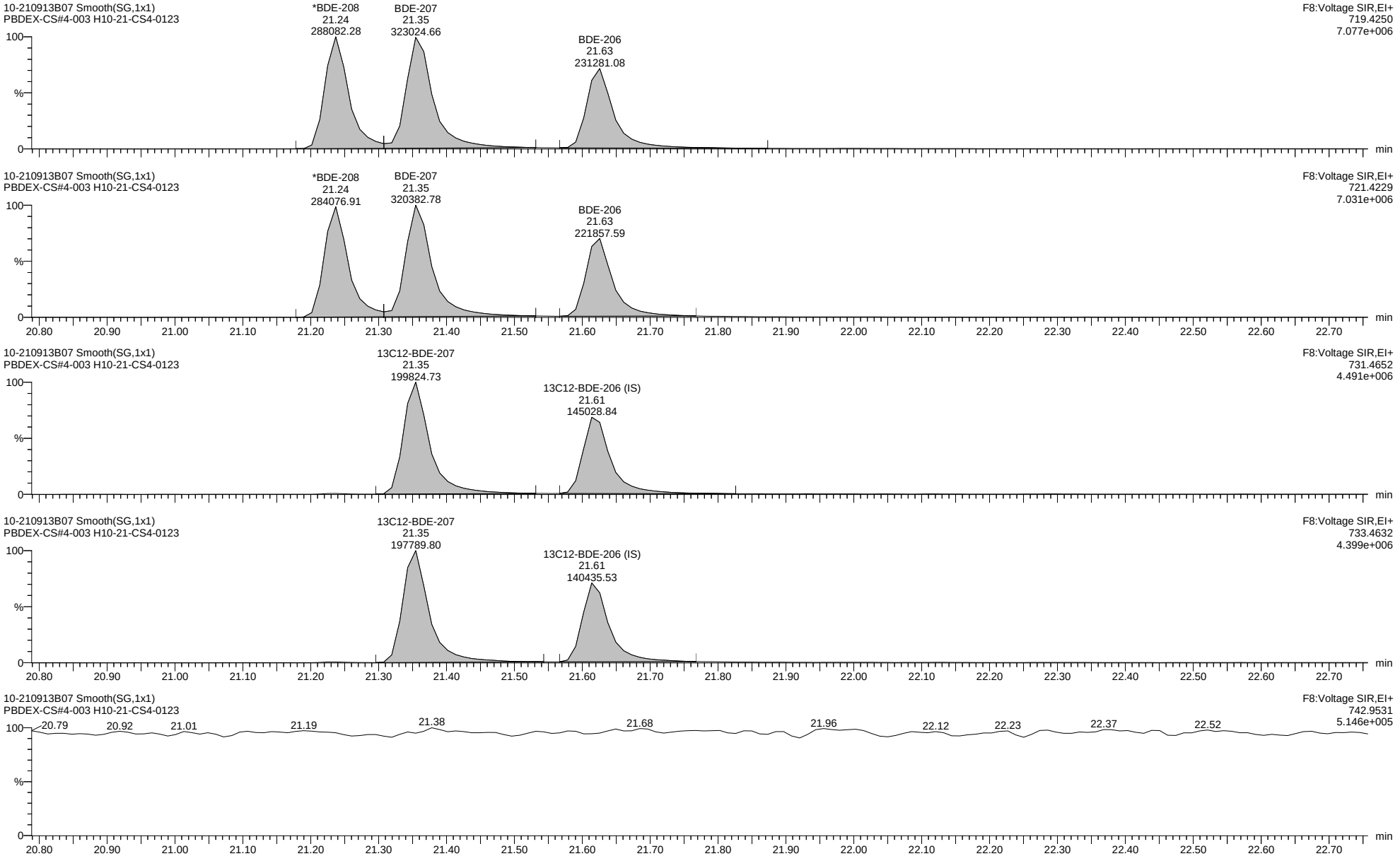


Quantify Sample Template Report **MassLynx MassLynx V4.1 SCN 901**

Dataset: I:\Organics Instrument\HIGHRES GCMS Completed Results Files\HR-10\2021\2109\10-210913B-ICAL-PBDE.qld

Last Altered: Tuesday, September 14, 2021 11:07:06 Eastern Daylight Time
Printed: Friday, September 17, 2021 10:50:04 Eastern Daylight Time

Name: 10-210913B07, Date: 13-Sep-2021, Time: 20:42:01, ID: H10-21-CS4-0123, Description: PBDEX-CS#4-003, Vial: Tray1:4

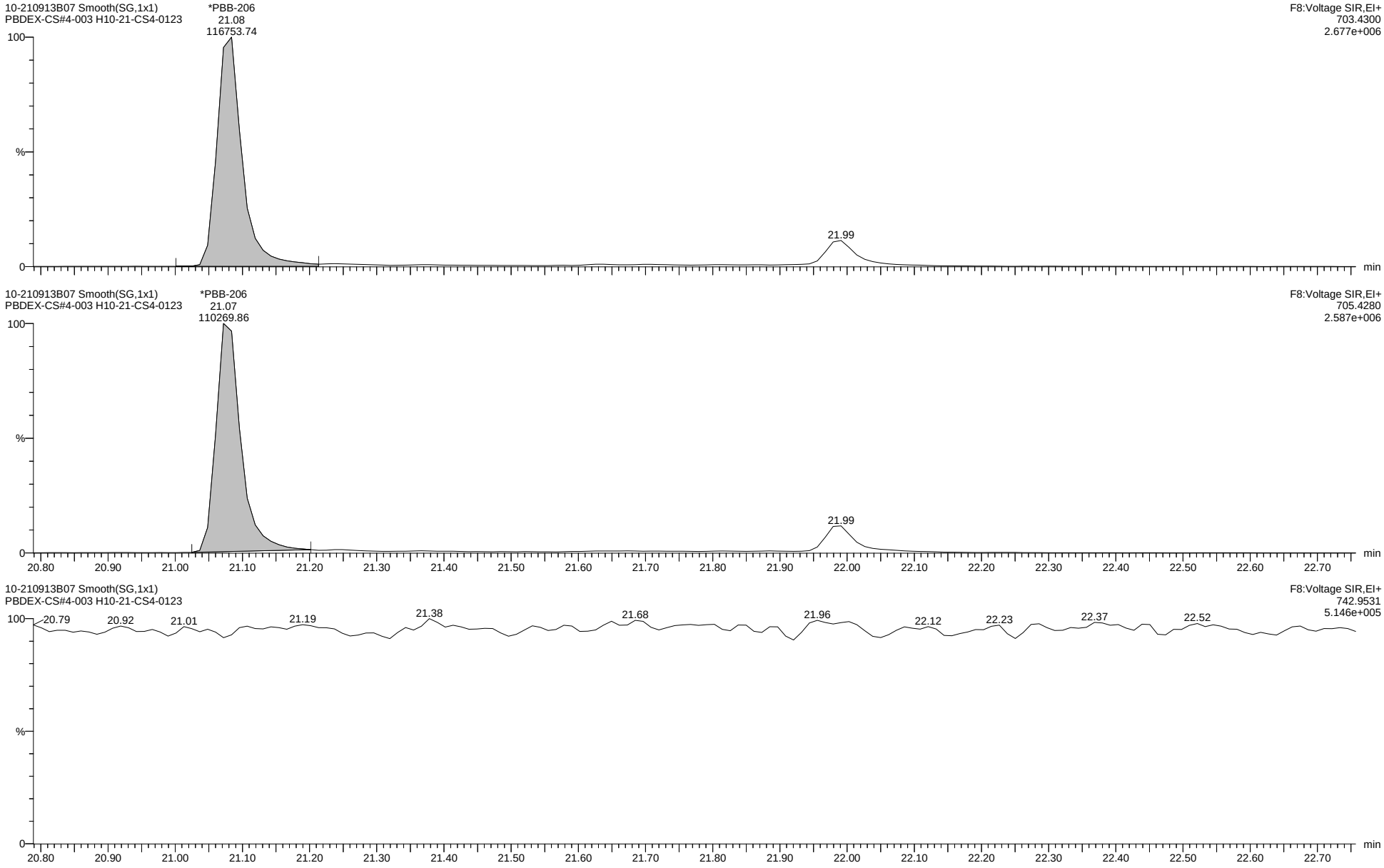


Quantify Sample Template Report **MassLynx MassLynx V4.1 SCN 901**

Dataset: I:\Organics Instrument\HIGHRES GCMS Completed Results Files\HR-10\2021\2109\10-210913B-ICAL-PBDE.qld

Last Altered: Tuesday, September 14, 2021 11:07:06 Eastern Daylight Time
Printed: Friday, September 17, 2021 10:50:04 Eastern Daylight Time

Name: 10-210913B07, Date: 13-Sep-2021, Time: 20:42:01, ID: H10-21-CS4-0123, Description: PBDEX-CS#4-003, Vial: Tray1:4



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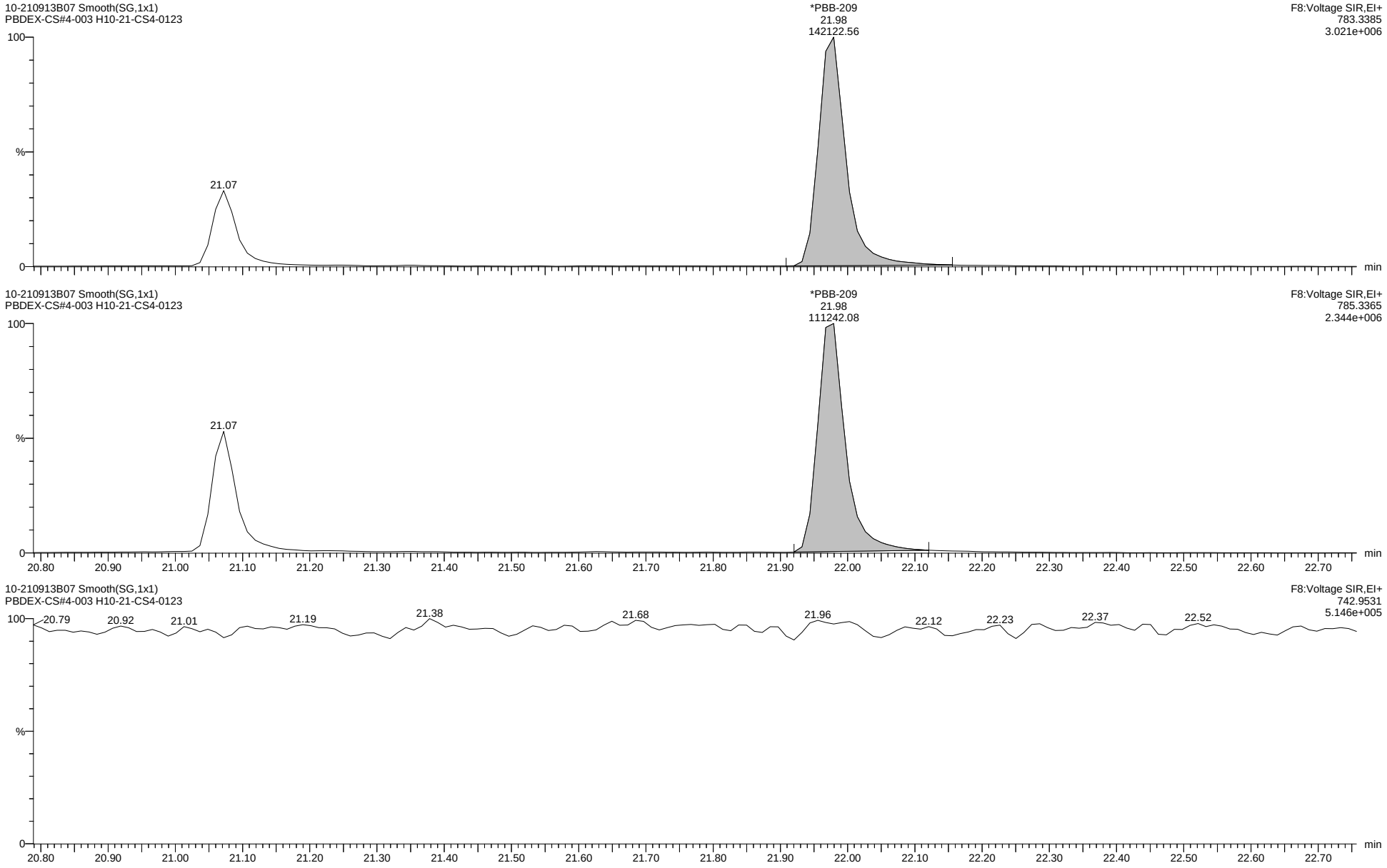
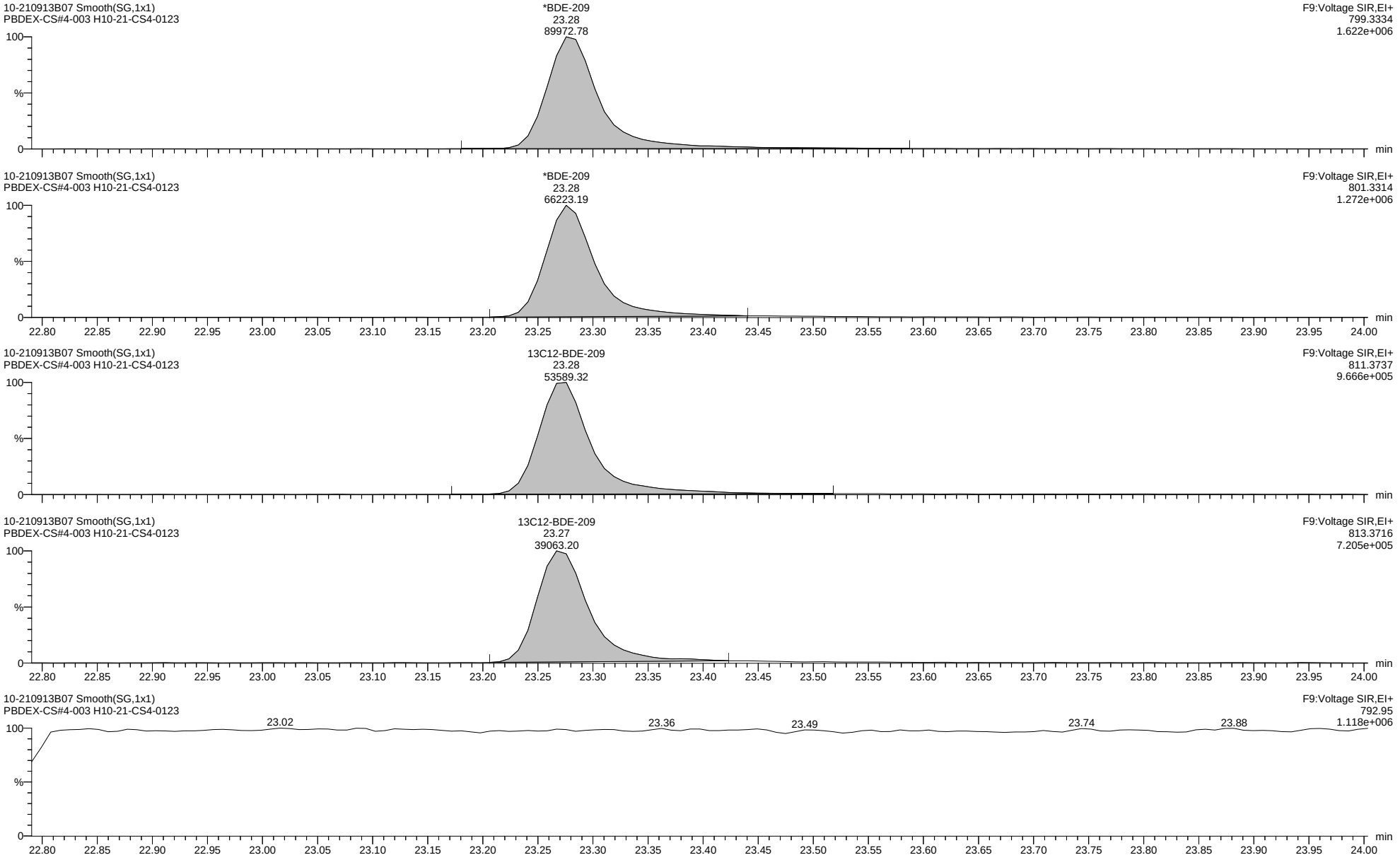


Dataset: I:\Organics Instrument\HIGHRES GCMS Completed Results Files\HR-10\2021\2109\10-210913B-ICAL-PBDE.qld

Last Altered: Tuesday, September 14, 2021 11:07:06 Eastern Daylight Time
Printed: Friday, September 17, 2021 10:50:04 Eastern Daylight Time

Name: 10-210913B07, Date: 13-Sep-2021, Time: 20:42:01, ID: H10-21-CS4-0123, Description: PBDEX-CS#4-003, Vial: Tray1:4



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Last Altered: Tuesday, September 14, 2021 11:07:06 Eastern Daylight Time
Printed: Friday, September 17, 2021 10:50:04 Eastern Daylight Time

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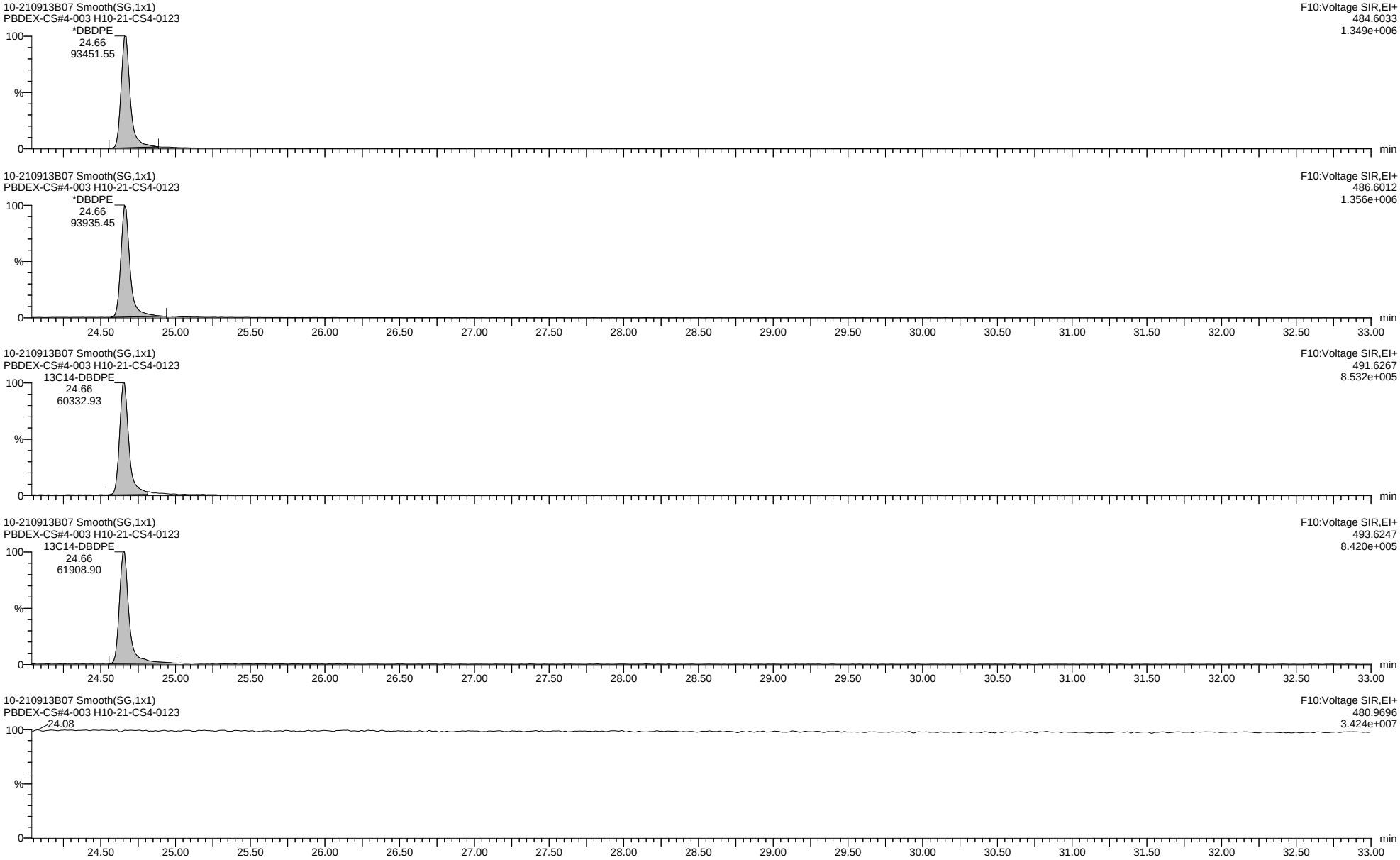

Quantify Sample Template Report **MassLynx MassLynx V4.1 SCN 901**

Dataset: I:\Organics Instrument\HIGHRES GCMS Completed Results Files\HR-10\2021\2109\10-210913B-ICAL-PBDE.qld

Last Altered: Tuesday, September 14, 2021 11:07:06 Eastern Daylight Time
Printed: Friday, September 17, 2021 10:50:04 Eastern Daylight Time

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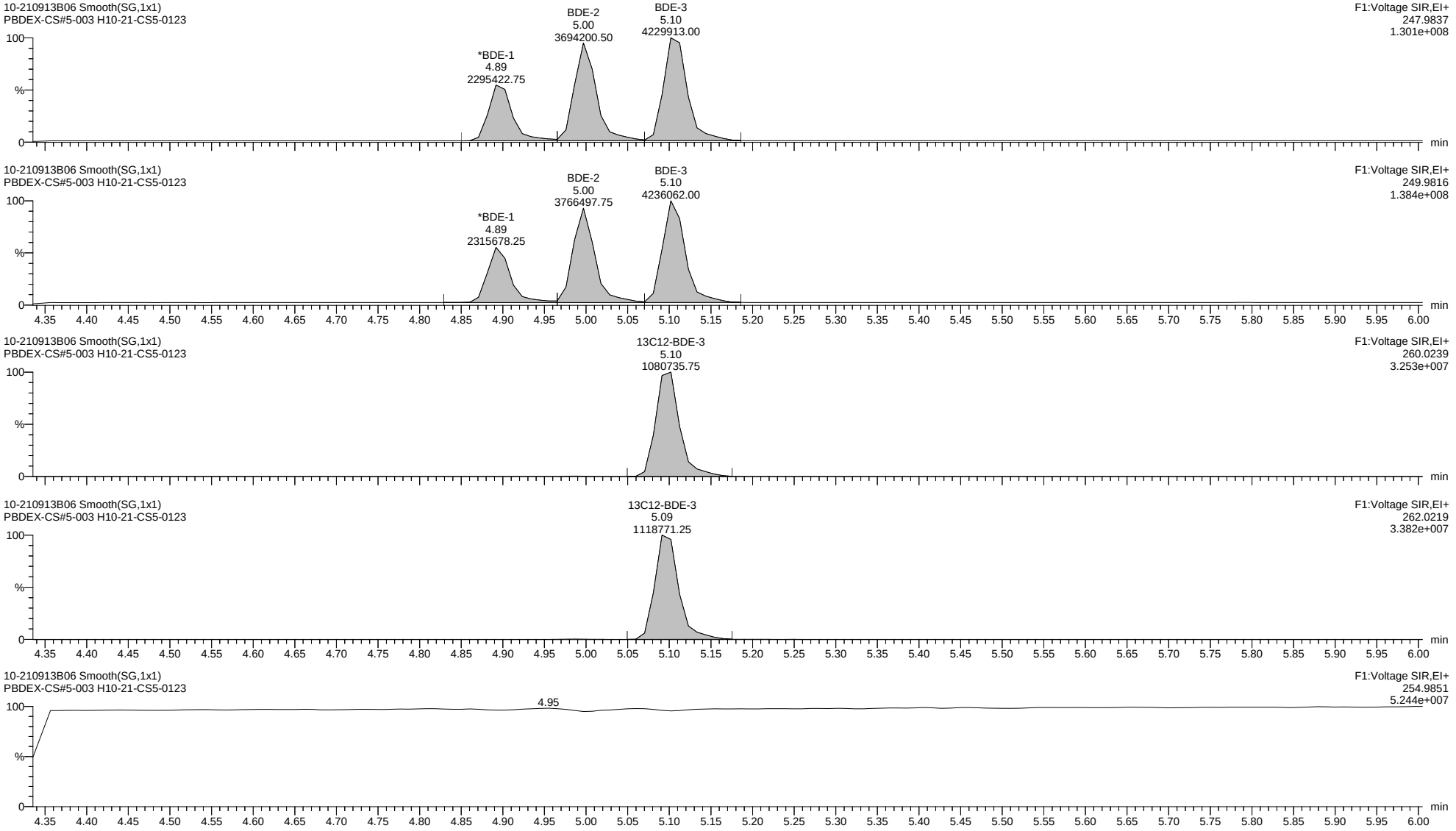
Calibration: C:\MassLynx\PBDE.PRO\CurveDB\10-210913B-ICAL-PBDE.cdb 14 Sep 2021 11:07:06

Name: 10-210913B06, Date: 13-Sep-2021, Time: 20:07:08, ID: H10-21-CS5-0123, Description: PBDEX-CS#5-003, Vial: Tray1:5



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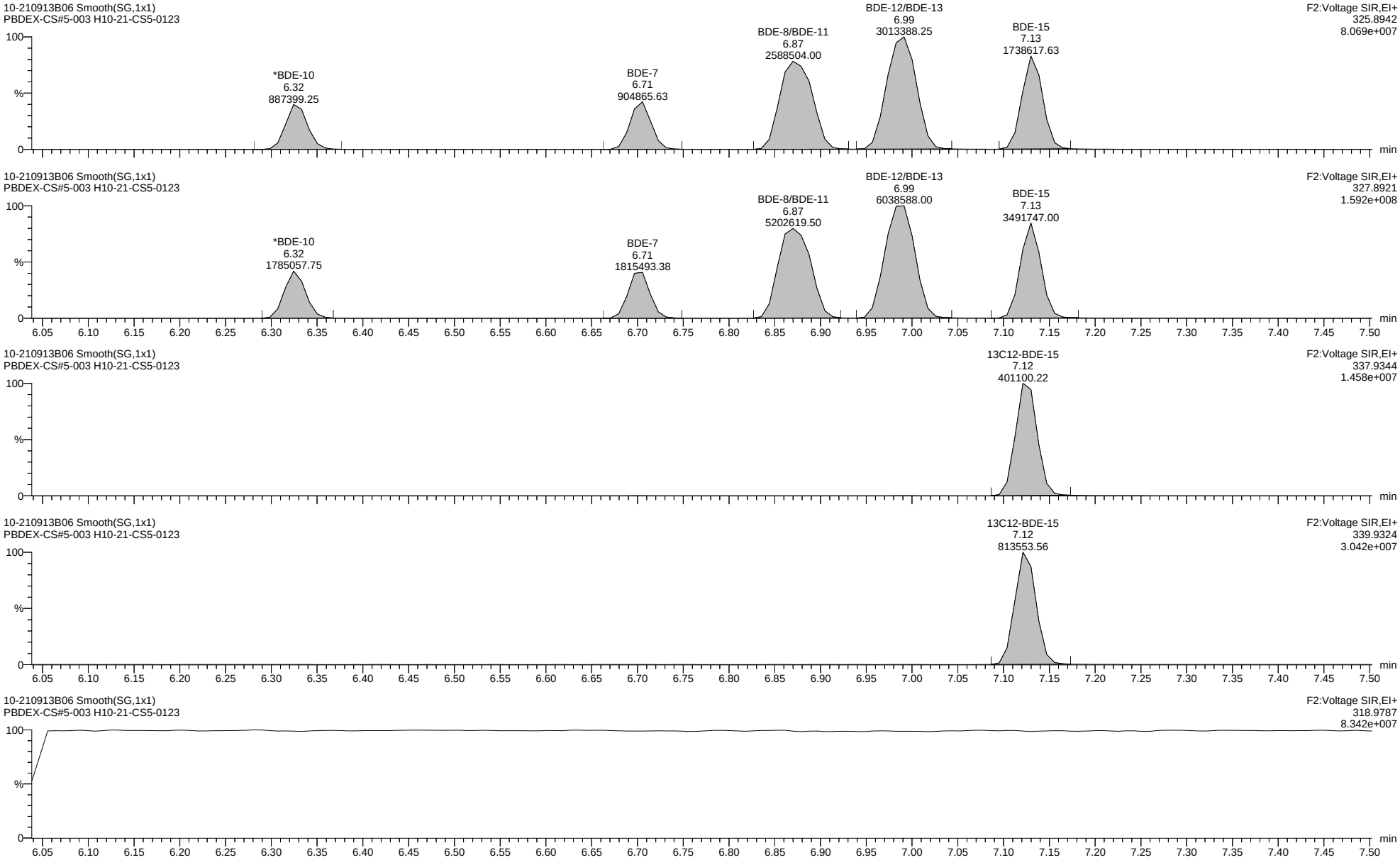
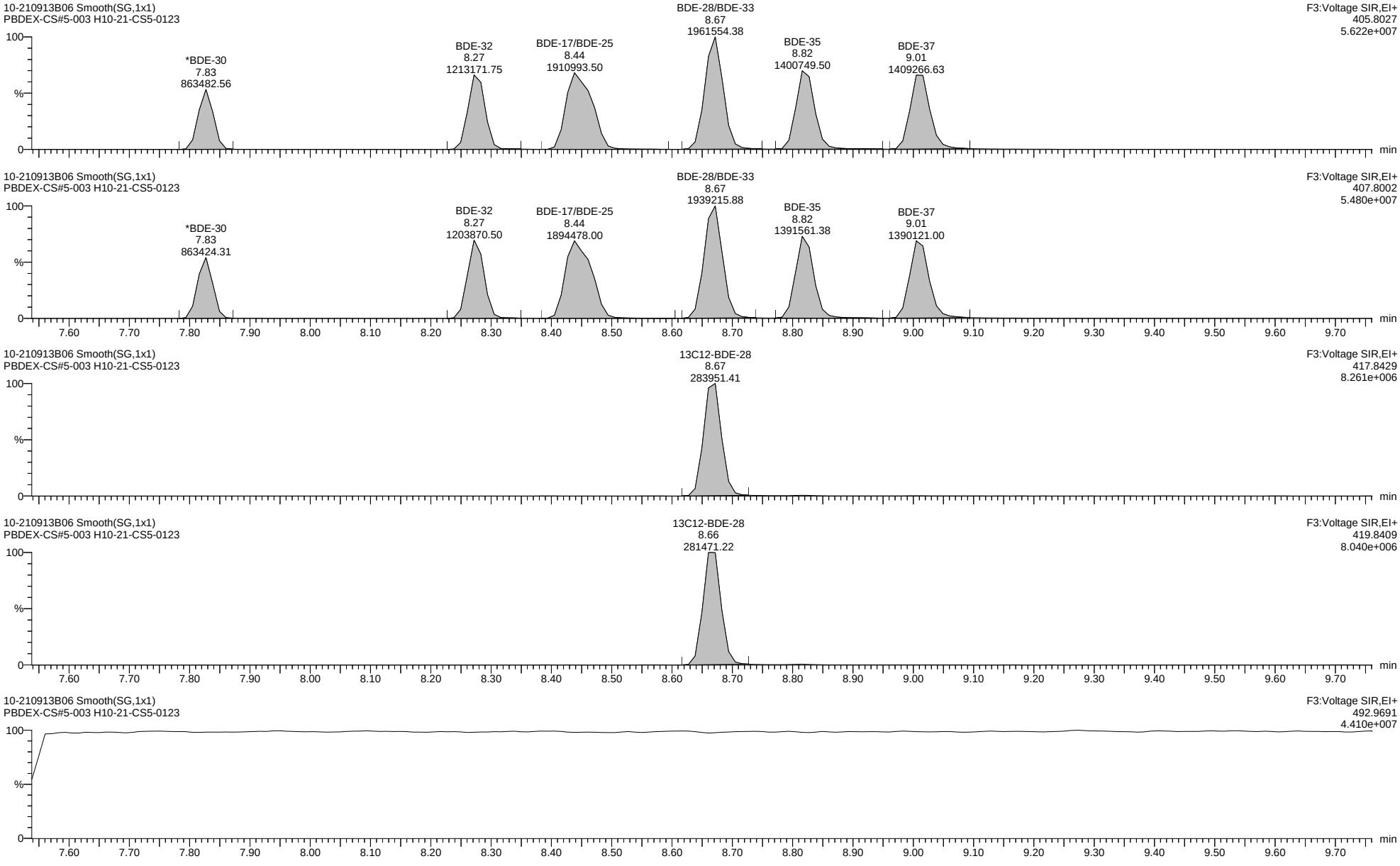


Dataset: I:\Organics Instrument\HIGHRES GCMS Completed Results Files\HR-10\2021\2109\10-210913B-ICAL-PBDE.qld

Last Altered: Tuesday, September 14, 2021 11:07:06 Eastern Daylight Time
Printed: Friday, September 17, 2021 10:50:04 Eastern Daylight Time

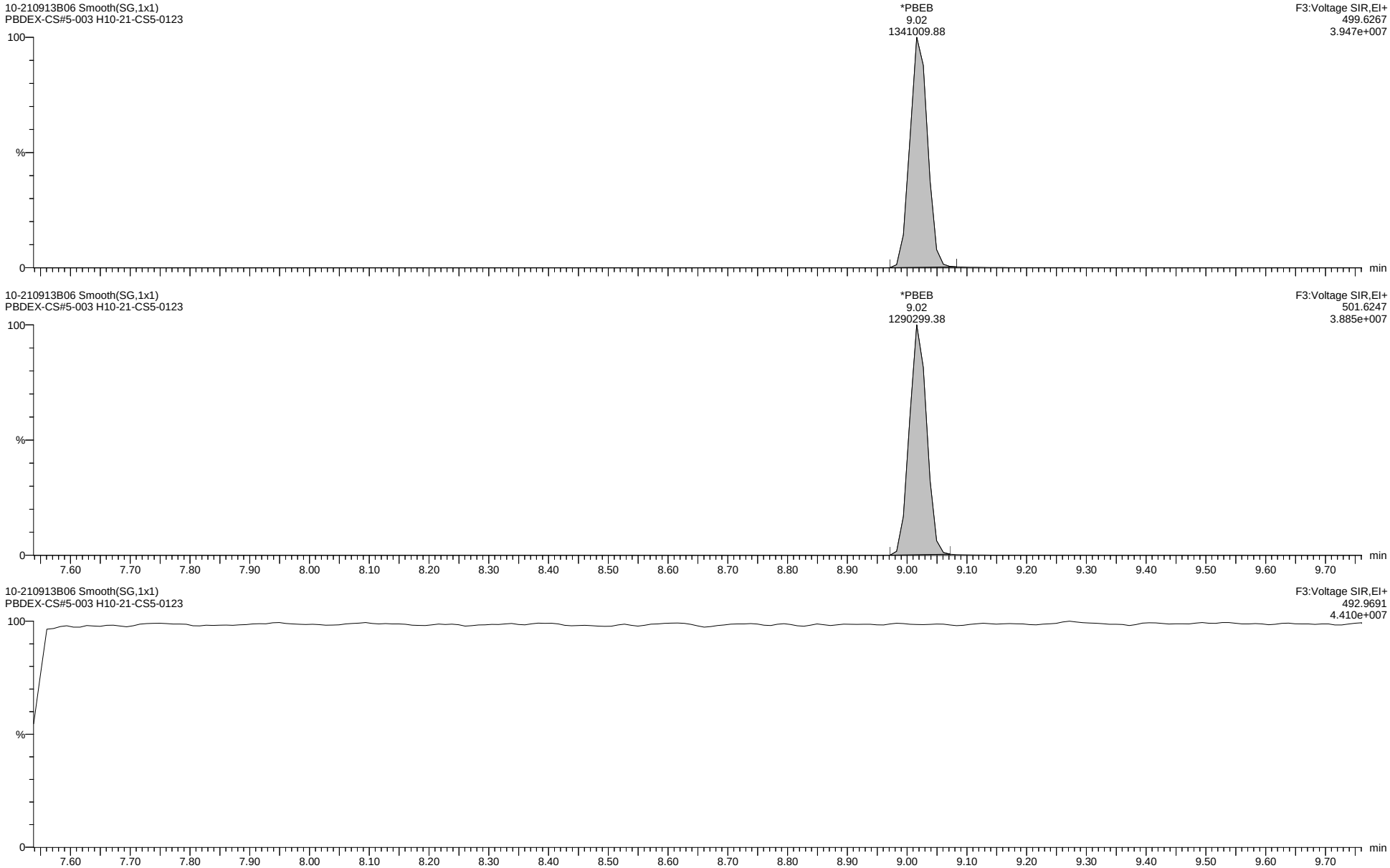
Name: 10-210913B06, Date: 13-Sep-2021, Time: 20:07:08, ID: H10-21-CS5-0123, Description: PBDEX-CS#5-003, Vial: Tray1:5



Dataset: I:\Organics Instrument\HIGHRES GCMS Completed Results Files\HR-10\2021\2109\10-210913B-ICAL-PBDE.qld

Last Altered: Tuesday, September 14, 2021 11:07:06 Eastern Daylight Time
Printed: Friday, September 17, 2021 10:50:04 Eastern Daylight Time

Name: 10-210913B06, Date: 13-Sep-2021, Time: 20:07:08, ID: H10-21-CS5-0123, Description: PBDEX-CS#5-003, Vial: Tray1:5



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Last Altered: Tuesday, September 14, 2021 11:07:06 Eastern Daylight Time
Printed: Friday, September 17, 2021 10:50:04 Eastern Daylight Time

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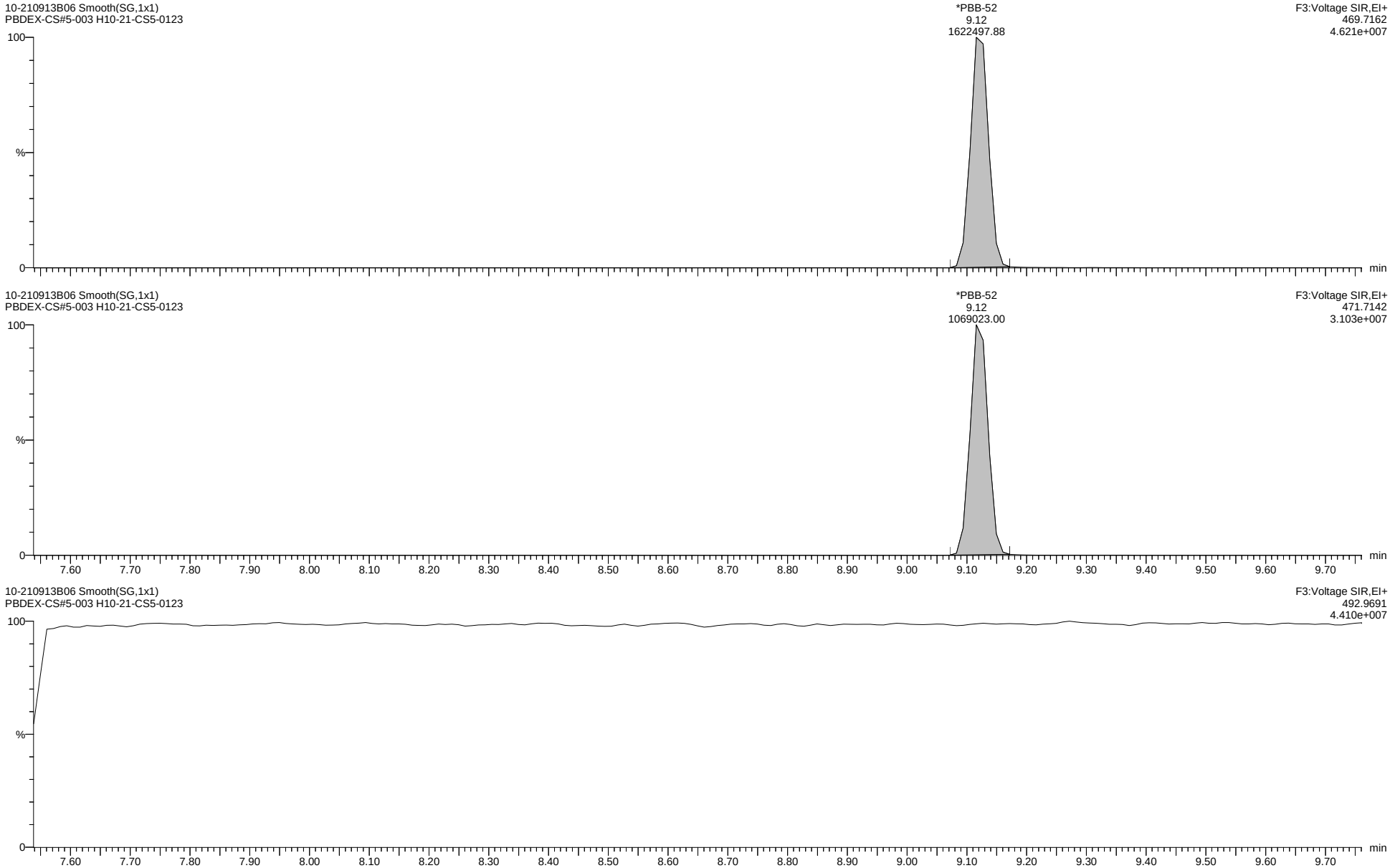

Dataset: I:\Organics Instrument\HIGHRES GCMS Completed Results Files\HR-10\2021\2109\10-210913B-ICAL-PBDE.qld

Last Altered: Tuesday, September 14, 2021 11:07:06 Eastern Daylight Time
Printed: Friday, September 17, 2021 10:50:04 Eastern Daylight Time

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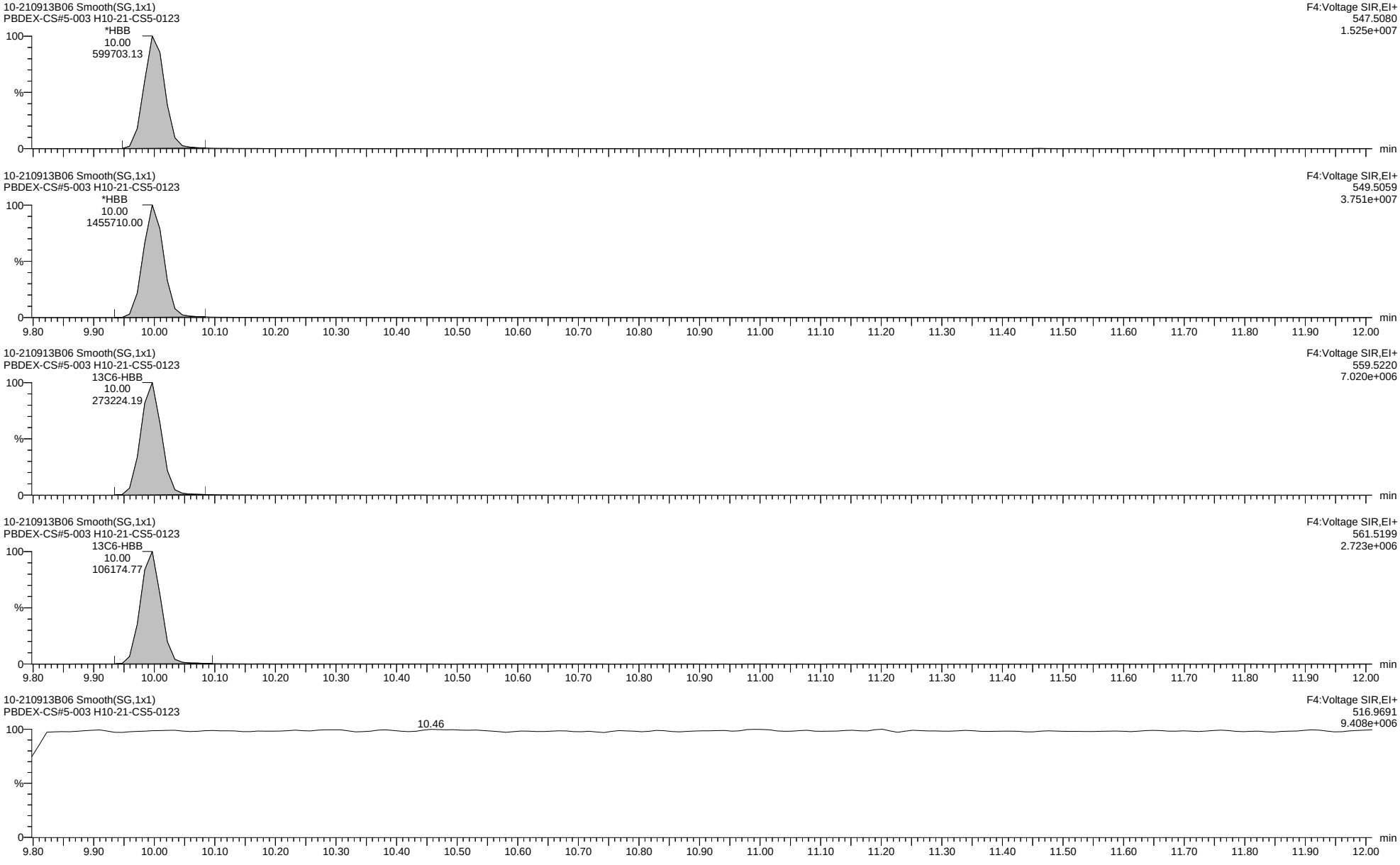

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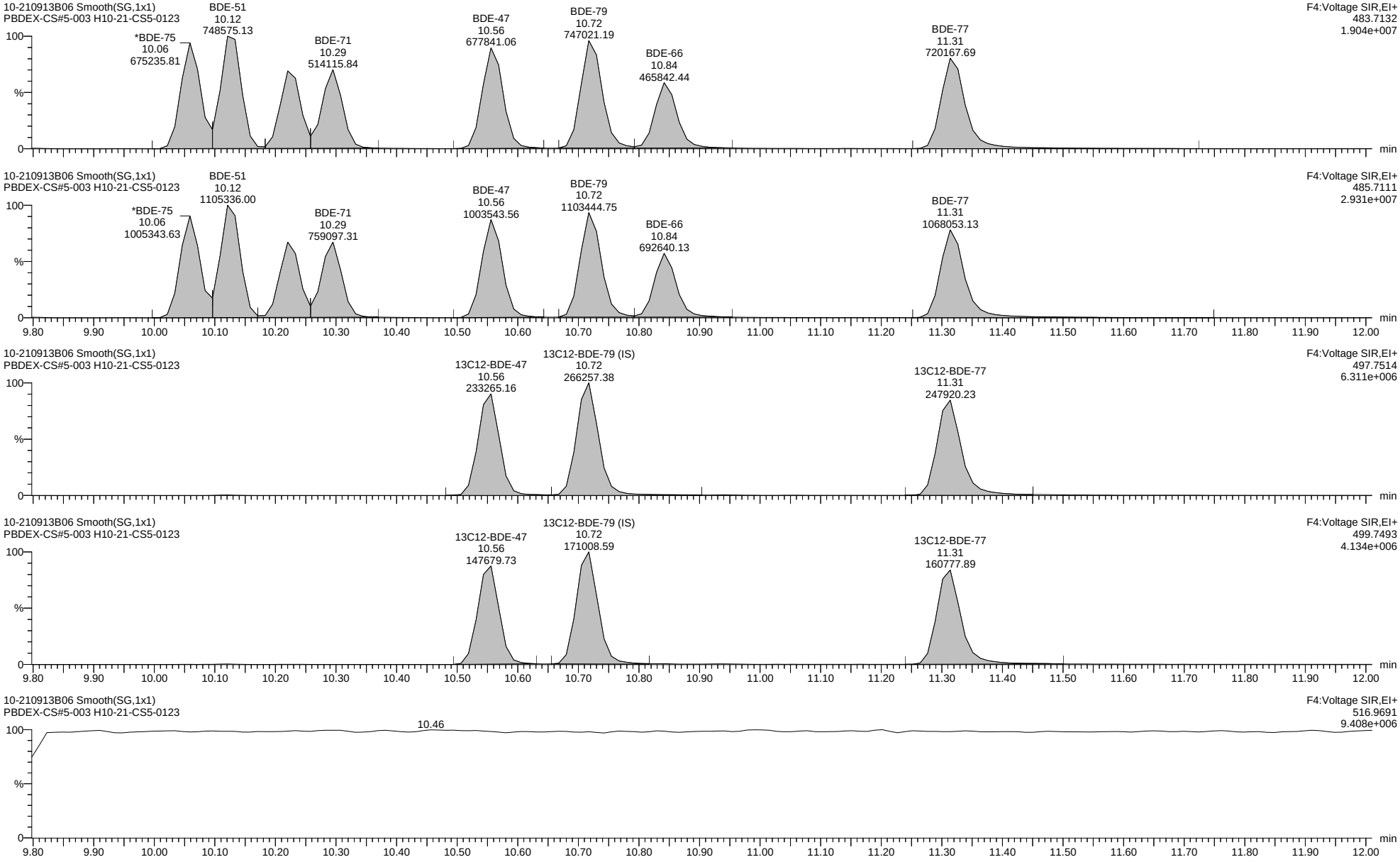

Quantify Sample Template Report **MassLynx MassLynx V4.1 SCN 901**

Dataset: I:\Organics Instrument\HIGHRES GCMS Completed Results Files\HR-10\2021\2109\10-210913B-ICAL-PBDE.qld

Last Altered: Tuesday, September 14, 2021 11:07:06 Eastern Daylight Time
Printed: Friday, September 17, 2021 10:50:04 Eastern Daylight Time

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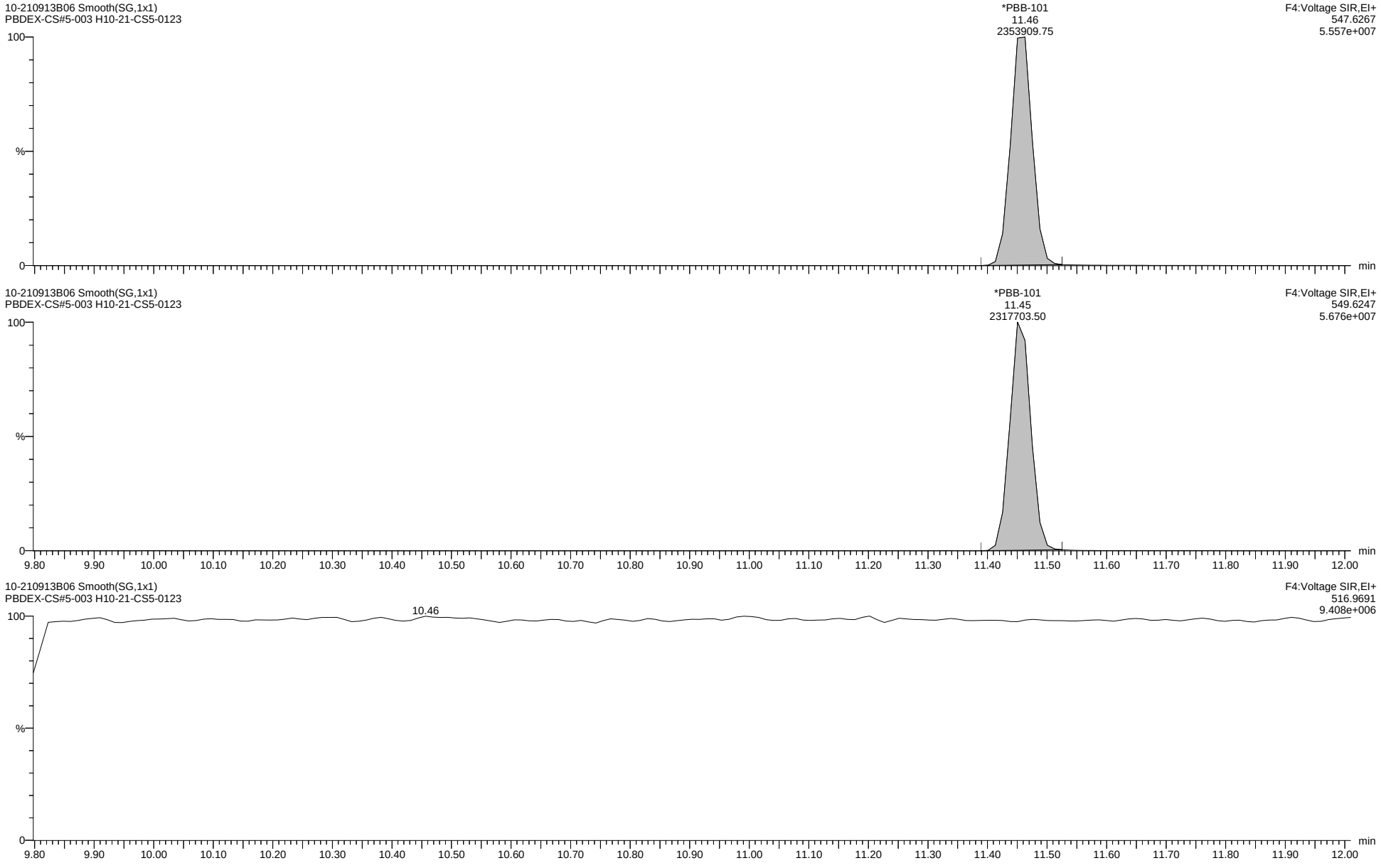

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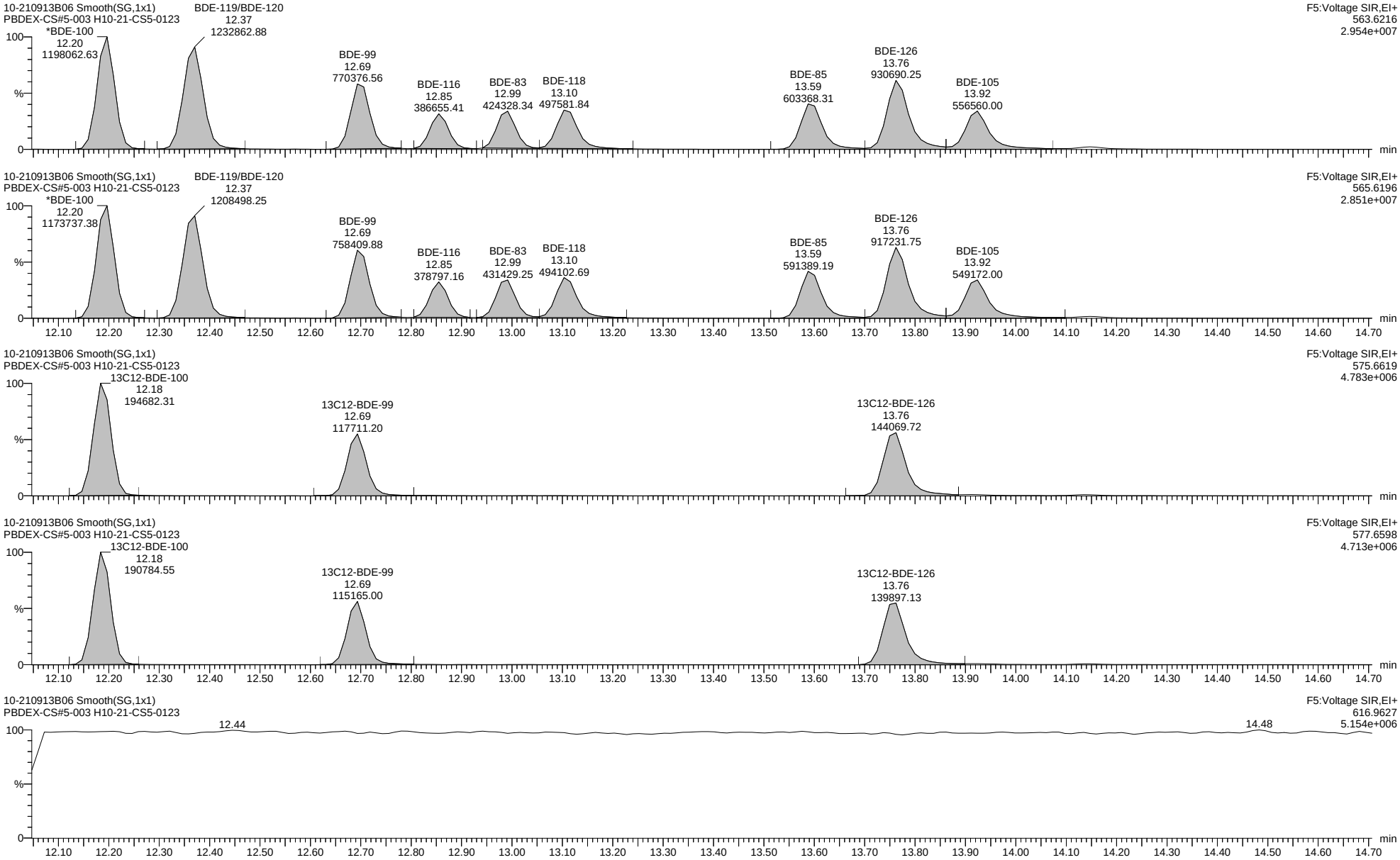

Quantify Sample Template Report **MassLynx MassLynx V4.1 SCN 901**

Dataset: I:\Organics Instrument\HIGHRES GCMS Completed Results Files\HR-10\2021\2109\10-210913B-ICAL-PBDE.qld

Last Altered: Tuesday, September 14, 2021 11:07:06 Eastern Daylight Time
Printed: Friday, September 17, 2021 10:50:04 Eastern Daylight Time

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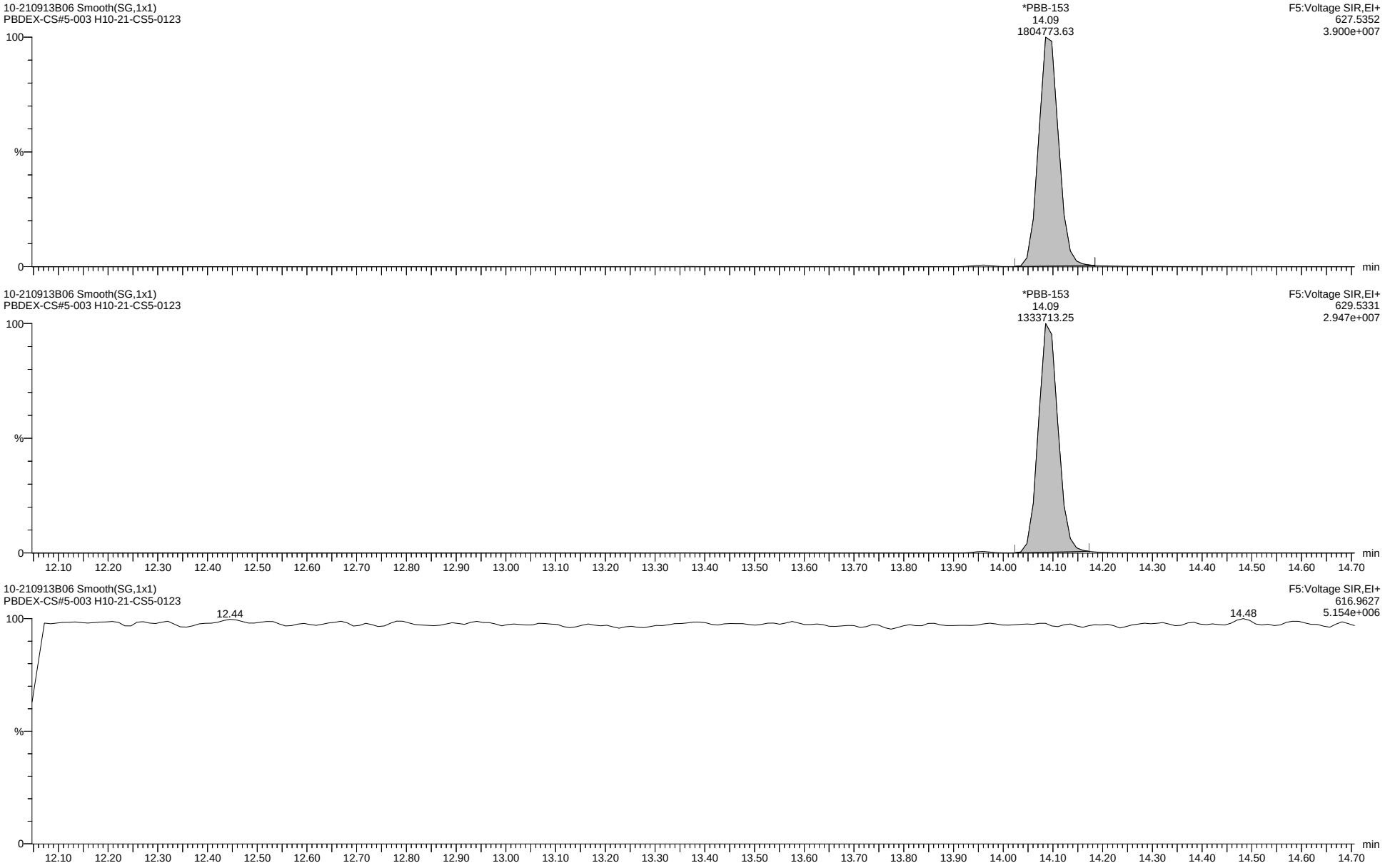

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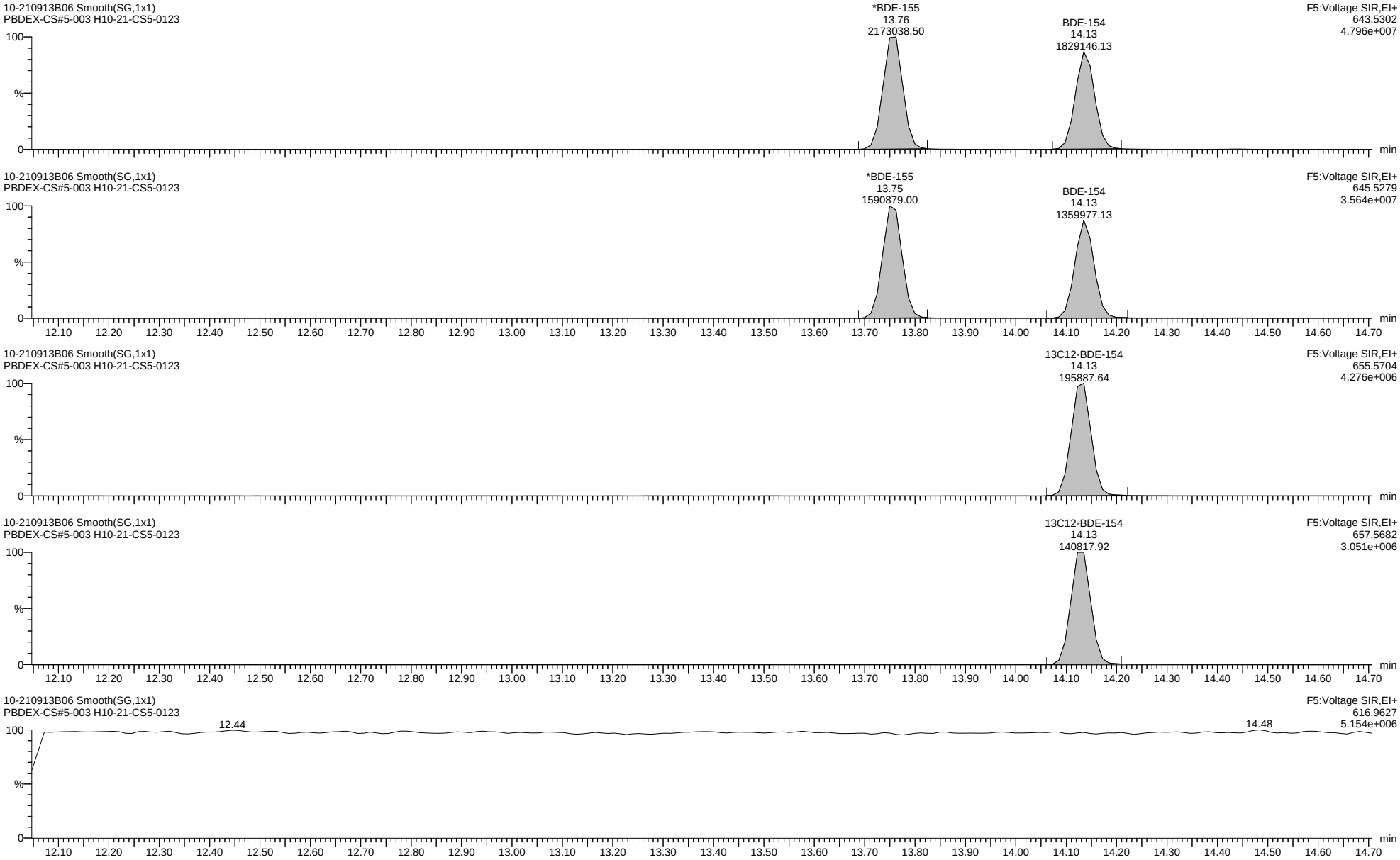

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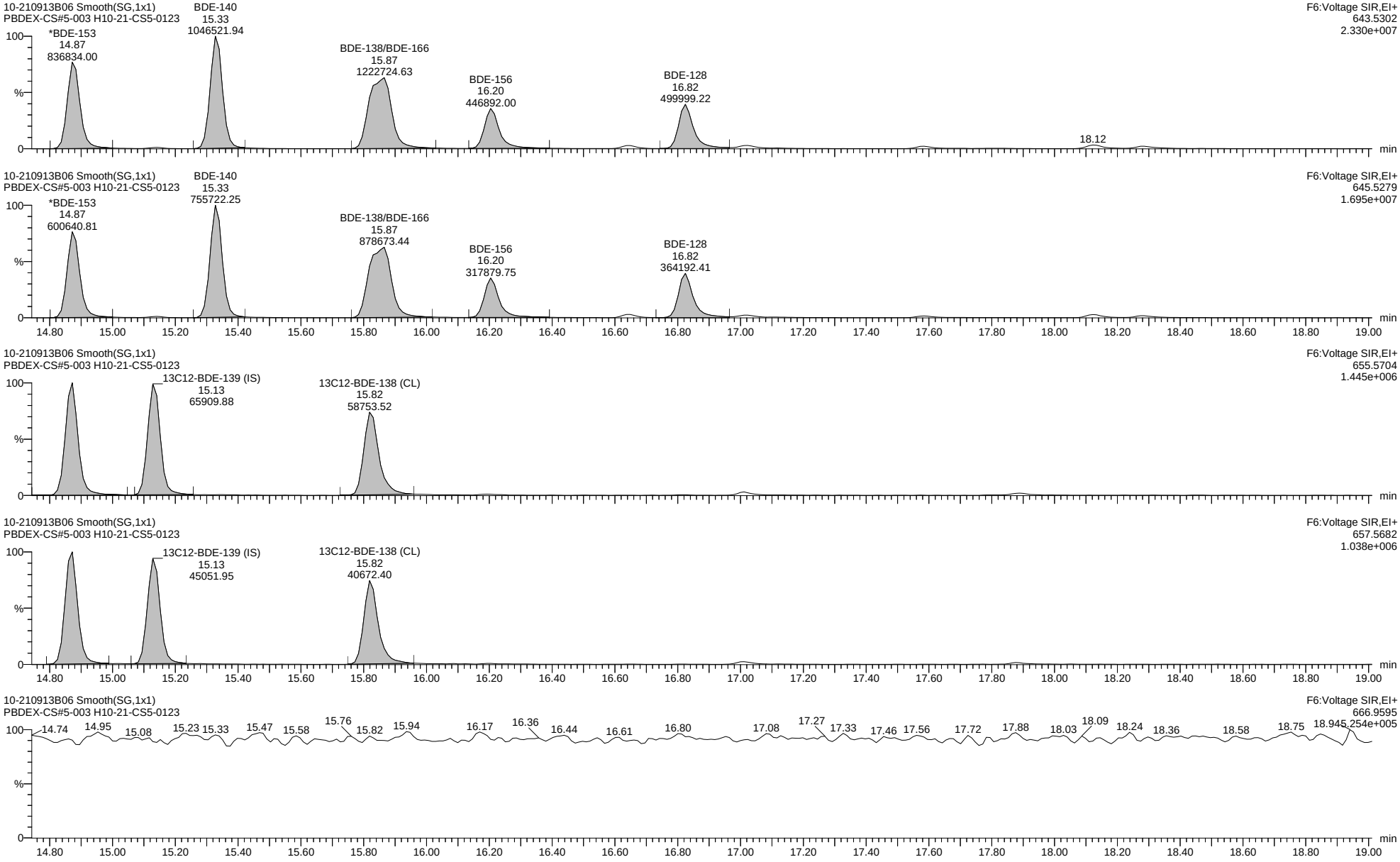

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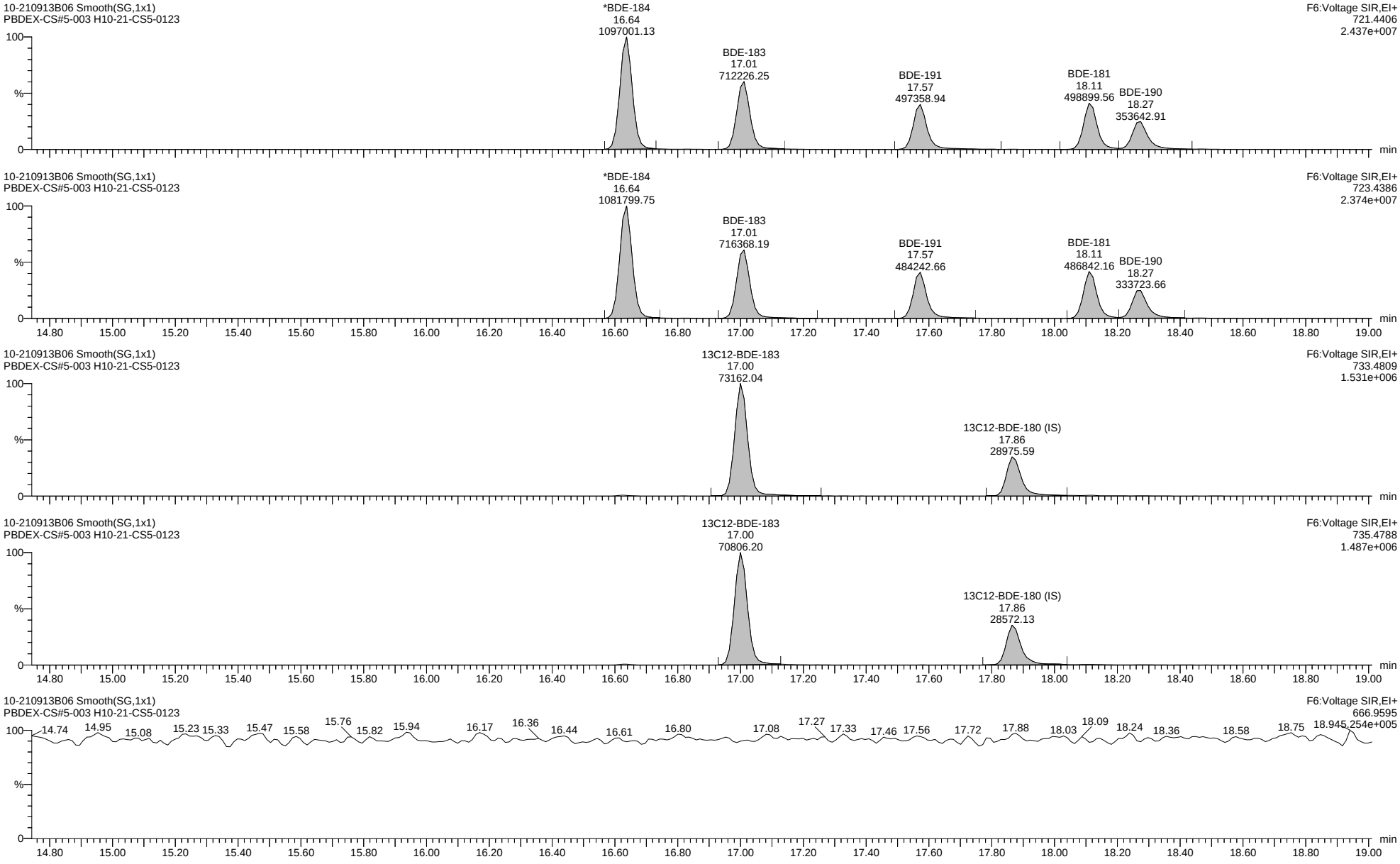

Dataset: I:\Organics Instrument\HIGHRES GCMS Completed Results Files\HR-10\2021\2109\10-210913B-ICAL-PBDE.qld

Last Altered: Tuesday, September 14, 2021 11:07:06 Eastern Daylight Time
Printed: Friday, September 17, 2021 10:50:04 Eastern Daylight Time

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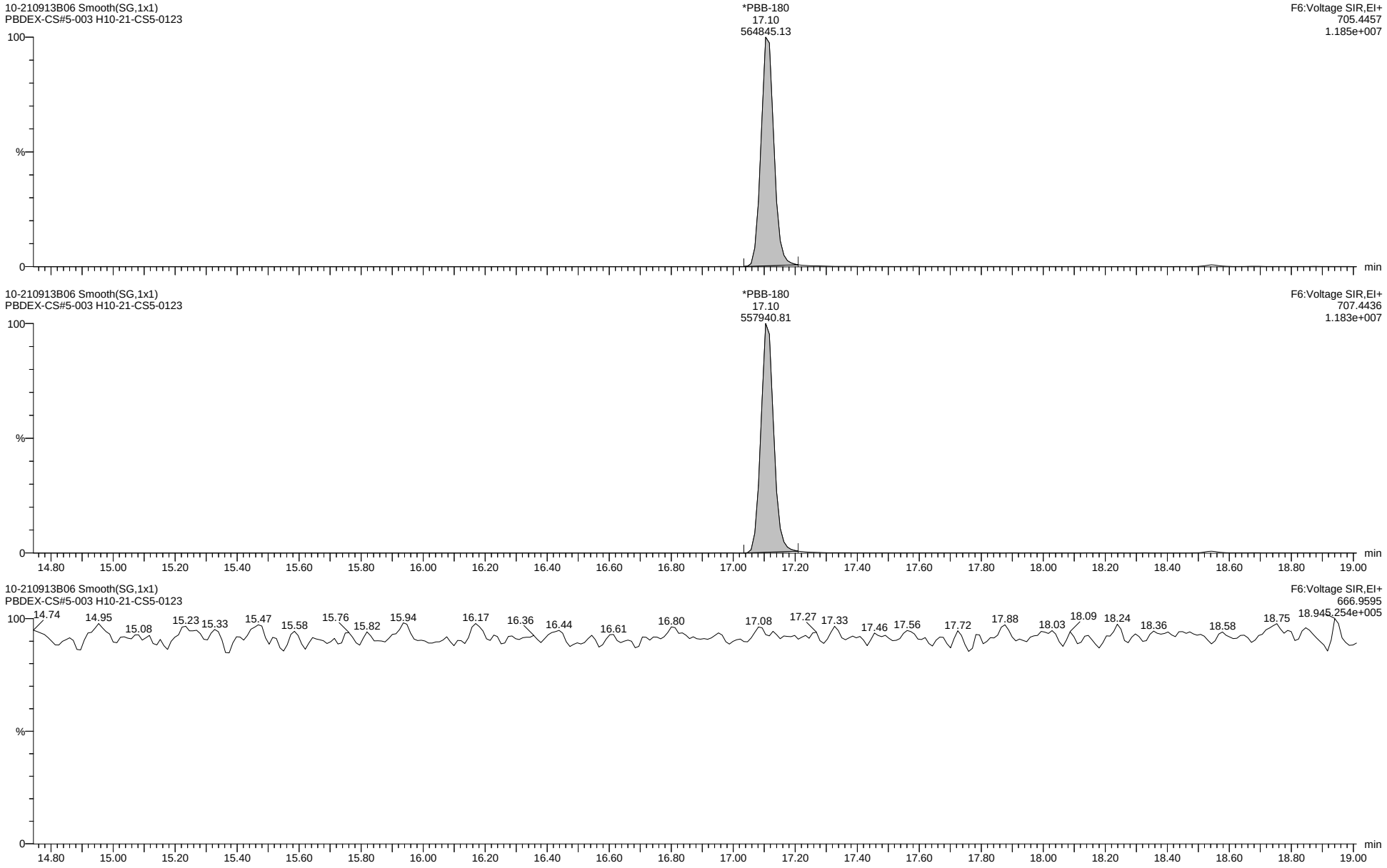

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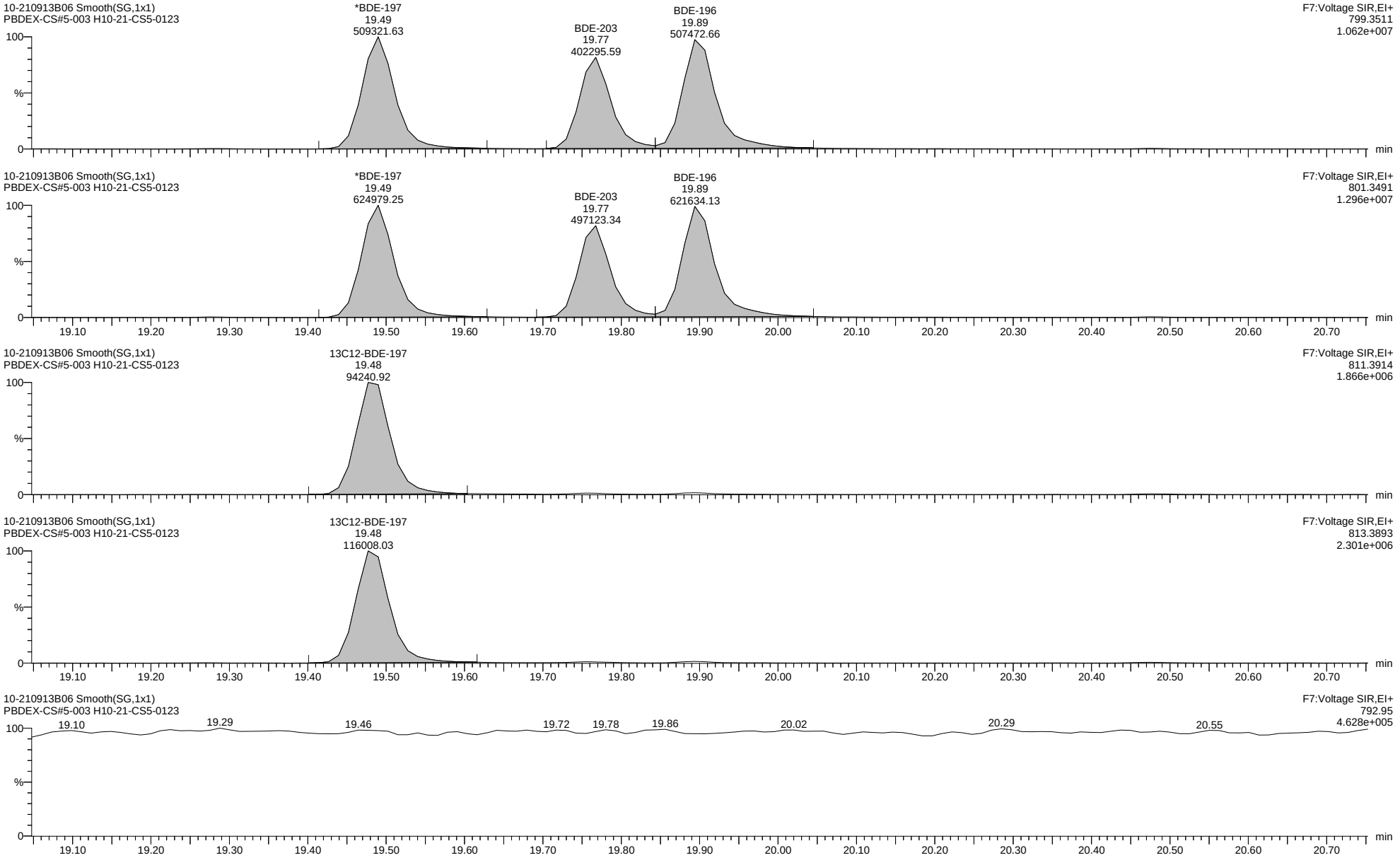

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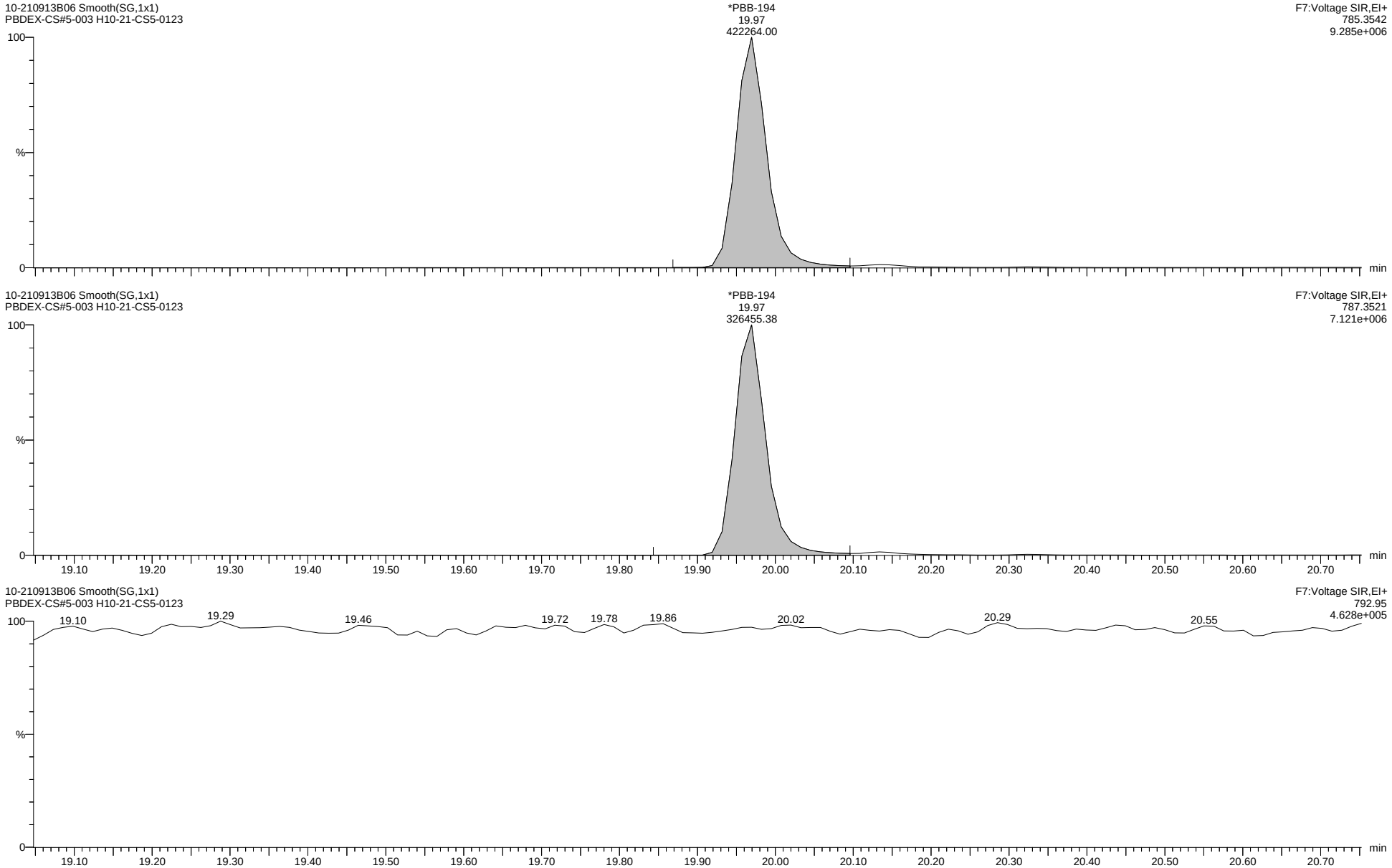
Last Altered: Tuesday, September 14, 2021 11:07:06 Eastern Daylight Time
Printed: Friday, September 17, 2021 10:50:04 Eastern Daylight Time

Name: 10-210913B06, Date: 13-Sep-2021, Time: 20:07:08, ID: H10-21-CS5-0123, Description: PBDEX-CS#5-003, Vial: Tray1:5



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Last Altered: Tuesday, September 14, 2021 11:07:06 Eastern Daylight Time
Printed: Friday, September 17, 2021 10:50:04 Eastern Daylight Time

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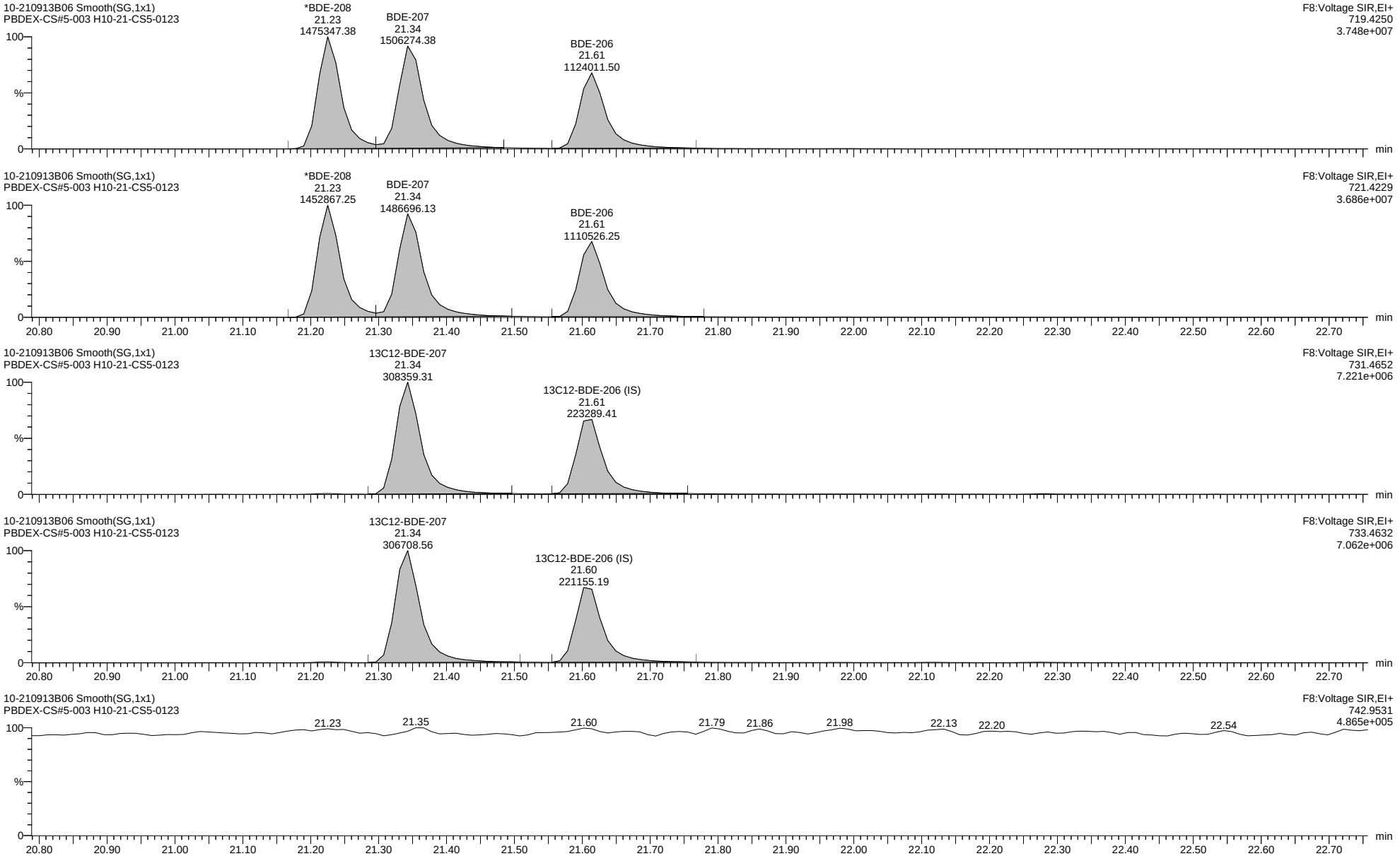

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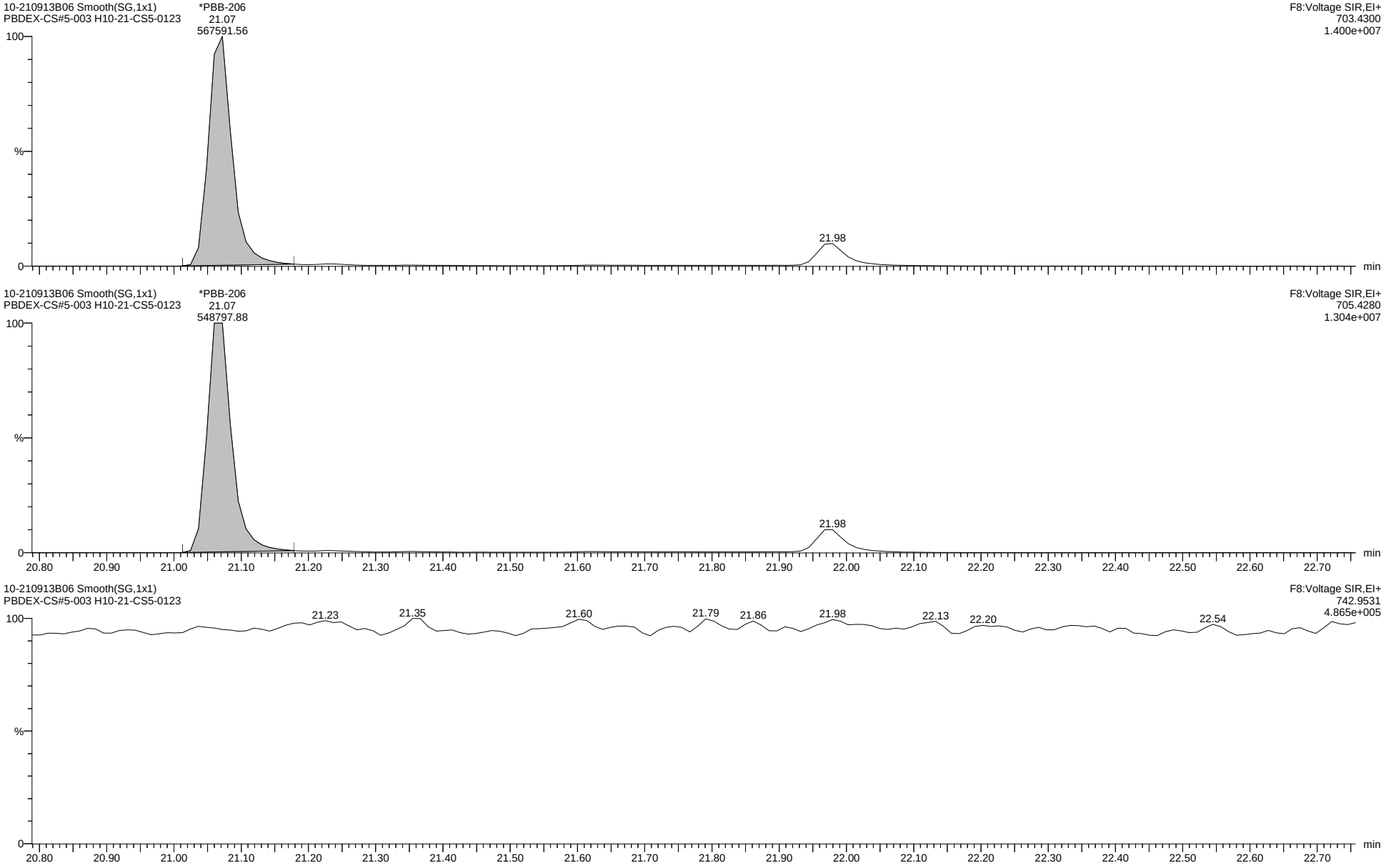
Last Altered: Tuesday, September 14, 2021 11:07:06 Eastern Daylight Time
Printed: Friday, September 17, 2021 10:50:04 Eastern Daylight Time

Name: 10-210913B06, Date: 13-Sep-2021, Time: 20:07:08, ID: H10-21-CS5-0123, Description: PBDEX-CS#5-003, Vial: Tray1:5



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Last Altered: Tuesday, September 14, 2021 11:07:06 Eastern Daylight Time
Printed: Friday, September 17, 2021 10:50:04 Eastern Daylight Time

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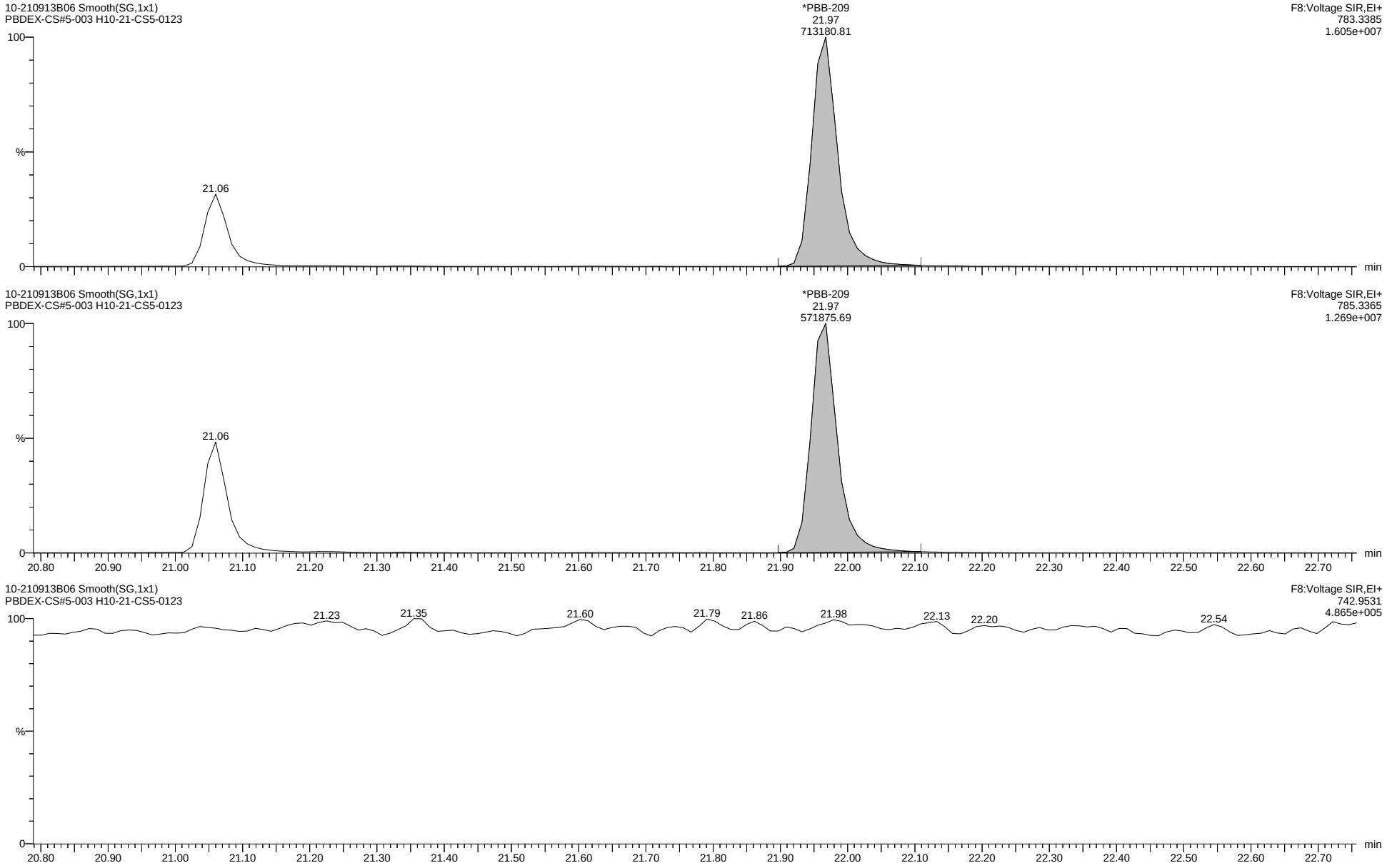

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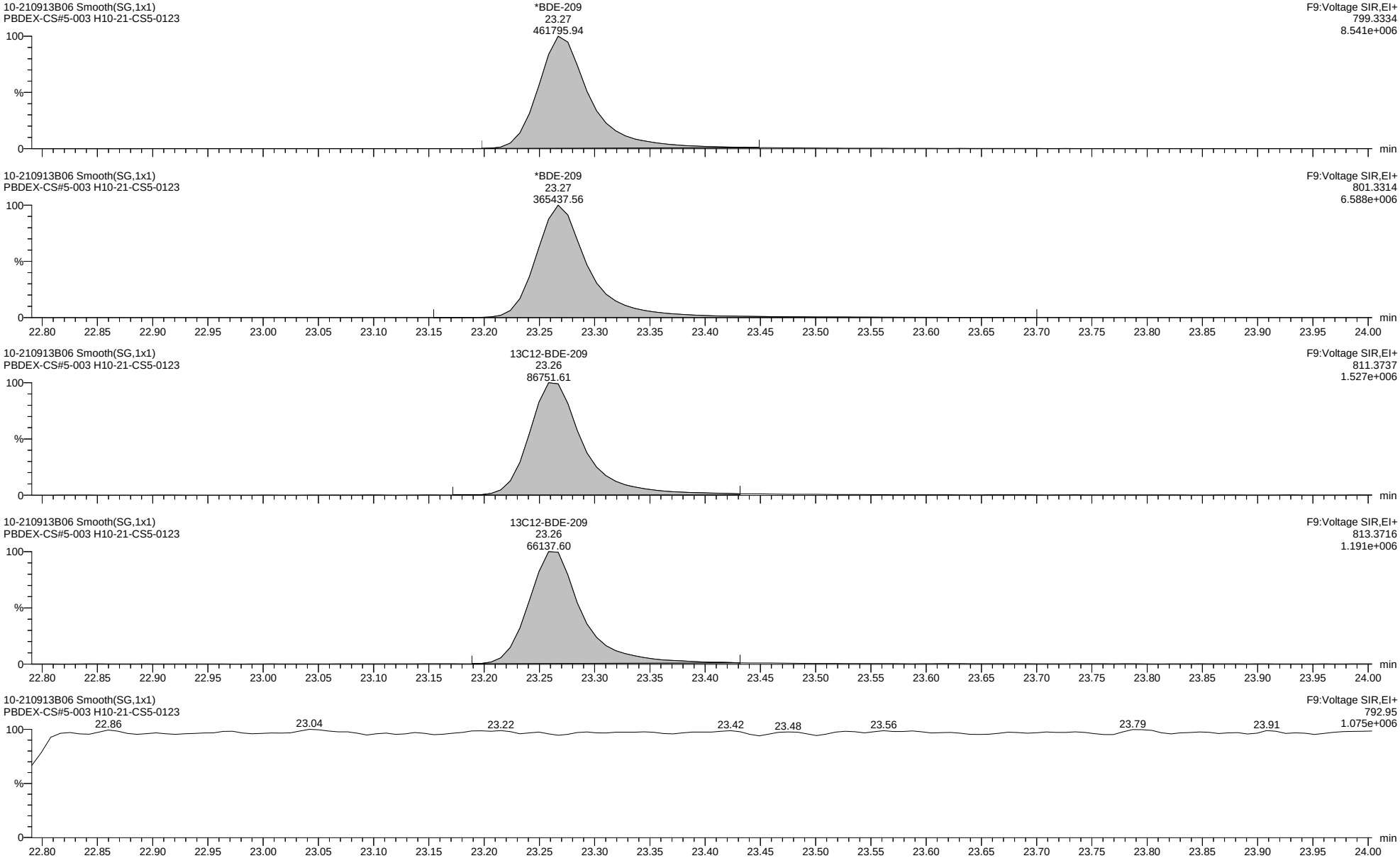

Quantify Sample Template Report **MassLynx MassLynx V4.1 SCN 901**

Dataset: I:\Organics Instrument\HIGHRES GCMS Completed Results Files\HR-10\2021\2109\10-210913B-ICAL-PBDE.qld

Last Altered: Tuesday, September 14, 2021 11:07:06 Eastern Daylight Time
Printed: Friday, September 17, 2021 10:50:04 Eastern Daylight Time

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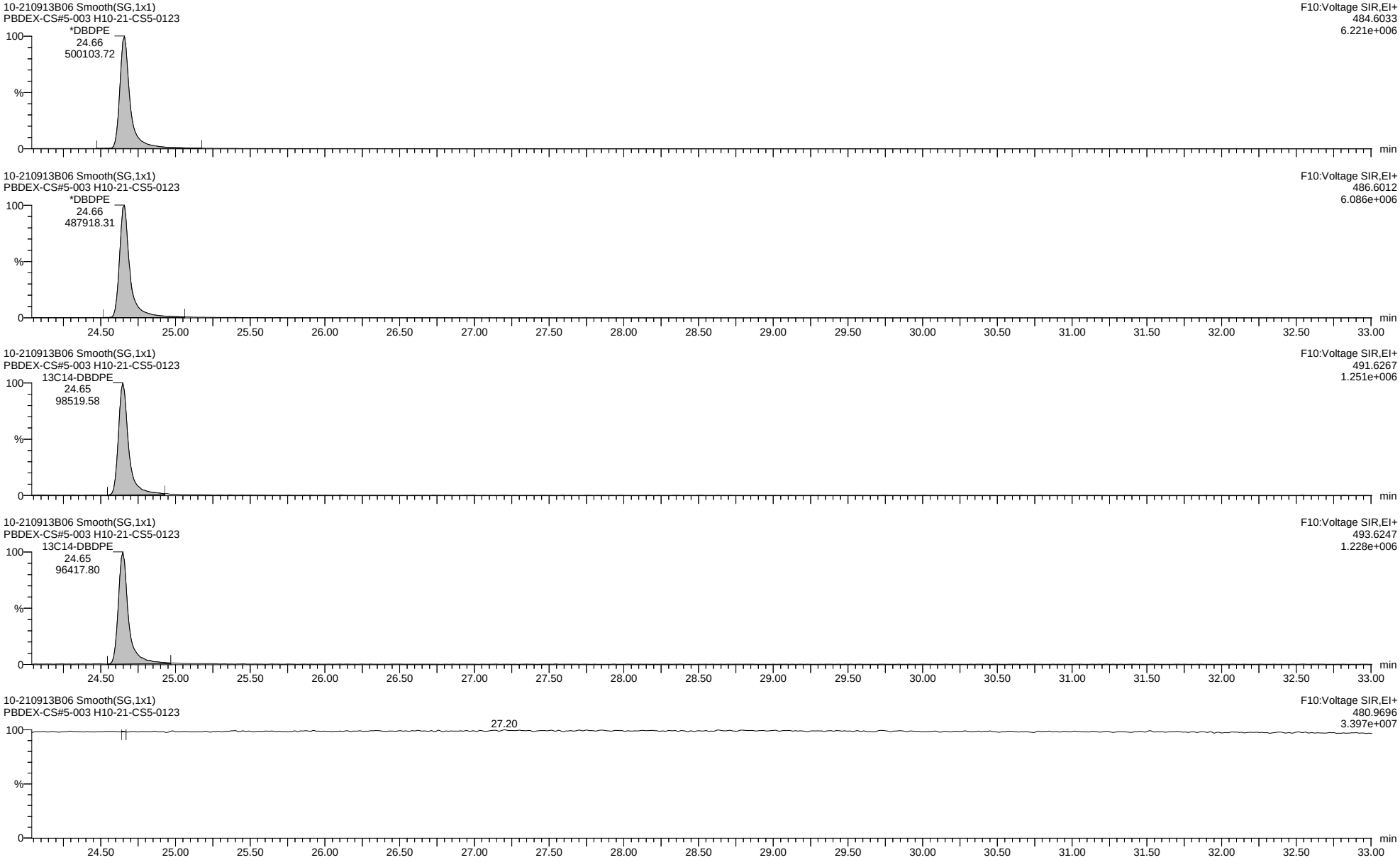

Quantify Sample Summary Report **MassLynx MassLynx V4.1 SCN 901**

Dataset: I:\Organics Instrument\HIGHRES GCMS Completed Results Files\HR-10\2021\2109\10-210913B-Q1-PBDE.qld

Last Altered: Thursday, September 16, 2021 14:59:12 Eastern Daylight Time
Printed: Friday, September 17, 2021 10:46:06 Eastern Daylight Time

Method: C:\MassLynx\PBDE.PRO\MethDB\PBDEX-DB5-1-210913B.mdb 14 Sep 2021 11:10:04
Calibration: C:\MassLynx\PBDE.PRO\CurveDB\10-210913B-ICAL-PBDE.cdb 14 Sep 2021 11:07:06

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	Target Analyte	#Hom	Total Area	Ion1 Area	Ion2 Area	Ra	Ra Fail=YES	RT	RRT	RT LCL	RT UCL	Conc.	%Rec	Mod.Comment	Noise 1	Noise 2
1	*BDE-1		420129.125	222388	197742	1.12	NO	4.91	0.96	4.88	4.95	21.570254	107.9		29702	39447
2	BDE-2		616695.469	314259	302437	1.04	NO	5.01	0.98	4.97	5.04	21.549276	107.7		29702	39447
3	BDE-3		706914.001	358648	348266	1.03	NO	5.12	1.00	5.09	5.16	20.554906	102.8		29702	39447
4	*BDE-10		204393.539	67639	136755	0.49	NO	6.34	0.89	6.31	6.38	23.569205	117.8		1203	741
5	BDE-7		202643.437	66433	136211	0.49	NO	6.71	0.94	6.68	6.75	23.212804	116.1		1203	741
6	BDE-8/BDE-11		555868.172	185441	370427	0.50	NO	6.88	0.96	6.85	6.91	44.398420	111.0		1203	741
7	BDE-12/BDE-13		636608.110	211667	424942	0.50	NO	7.00	0.98	6.97	7.03	43.998352	110.0		1203	741
8	BDE-15		356125.813	118464	237662	0.50	NO	7.14	1.00	7.11	7.17	20.752876	103.8		1203	741
9	*BDE-30		125727.832	63095	62632	1.01	NO	7.84	0.90	7.80	7.87	23.165166	115.8		2749	1196
10	BDE-32		169652.234	84978	84674	1.00	NO	8.28	0.95	8.25	8.32	22.835967	114.2		2749	1196
11	BDE-17/BDE-25		253375.985	126706	126670	1.00	NO	8.45	0.97	8.42	8.48	44.464105	111.2		2749	1196
12	BDE-28/BDE-33		253245.727	127258	125988	1.01	NO	8.68	1.00	8.65	8.72	42.686741	106.7		2749	1196
13	BDE-35		183890.711	94478	89413	1.06	NO	8.83	1.02	8.79	8.86	22.451045	112.3		2749	1196
14	BDE-37		177729.390	87643	90087	0.97	NO	9.02	1.04	8.98	9.05	21.690314	108.5		2749	1196
15	*PBEB		172363.133	87370	84994	1.03	NO	9.03	0.90	8.99	9.06	24.696924	123.5		662	550
16	*PBB-52		167179.563	100935	66245	1.52	NO	9.14	0.91	9.10	9.17	23.711194	118.6		901	646
17	*HBB		121666.004	34514	87152	0.40	NO	10.01	1.00	9.98	10.04	20.806367	104.0		462	709
18	*BDE-75		103881.996	41089	62793	0.65	NO	10.07	0.95	10.04	10.10	21.055375	105.3		941	1830
19	BDE-51		123335.071	48715	74620	0.65	NO	10.15	0.96	10.11	10.18	21.072738	105.4		941	1830
20	BDE-49		79172.453	31382	47790	0.66	NO	10.23	0.97	10.20	10.27	21.234170	106.2		941	1830
21	BDE-71		85122.121	34181	50941	0.67	NO	10.31	0.98	10.27	10.34	22.218120	111.1		941	1830
22	BDE-47		105558.488	41870	63689	0.66	NO	10.57	1.00	10.53	10.60	20.418779	102.1		941	1830
23	BDE-79		117658.000	46745	70913	0.66	NO	10.73	1.02	10.70	10.76	20.174886	100.9		941	1830
24	BDE-66		70806.959	28127	42680	0.66	NO	10.85	1.03	10.82	10.89	20.676233	103.4		941	1830
25	BDE-77		106630.809	43647	62984	0.69	NO	11.33	1.00	11.29	11.36	20.201241	101.0		941	1830
26	*PBB-101		265863.641	134716	131148	1.03	NO	11.48	1.01	11.44	11.51	38.363234	95.9		863	647
27	*BDE-100		144423.422	72078	72346	1.00	NO	12.21	1.00	12.18	12.24	31.384200	104.6		1132	975
28	BDE-119/BDE-120		133927.368	67559	66368	1.02	NO	12.38	1.02	12.35	12.42	62.446680	104.1		1132	975
29	BDE-99		91341.511	45638	45704	1.00	NO	12.71	1.00	12.67	12.74	31.055810	103.5		1132	975
30	BDE-116		42251.892	20590	21661	0.95	NO	12.87	1.01	12.83	12.90	30.255928	100.9		1132	975
31	BDE-83		49055.217	24377	24678	0.99	NO	13.00	1.02	12.97	13.04	31.159314	103.9		1132	975
32	BDE-118		56998.209	28275	28723	0.98	NO	13.12	1.03	13.08	13.15	31.777876	105.9		1132	975
33	BDE-85		68906.504	35288	33619	1.05	NO	13.60	0.99	13.57	13.63	33.255168	110.9		1132	975
34	BDE-126		103388.586	52212	51177	1.02	NO	13.77	1.00	13.74	13.81	33.043349	110.1		1132	975

Quantify Sample Summary Report **MassLynx MassLynx V4.1 SCN 901**

Dataset: I:\Organics Instrument\HIGHRES GCMS Completed Results Files\HR-10\2021\2109\10-210913B-Q1-PBDE.qld

Last Altered: Thursday, September 16, 2021 14:59:12 Eastern Daylight Time
Printed: Friday, September 17, 2021 10:46:06 Eastern Daylight Time

Name: 10-210913B19, Date: 14-Sep-2021, Time: 03:40:24, ID: H10-21-CCV-0123, Description: PBDEX-CS#3-20, Vial: Tray1:1

	Target Analyte	#Hom	Total Area	Ion1 Area	Ion2 Area	Ra	Ra Fail=YES	RT	RRT	RT LCL	RT UCL	Conc.	%Rec	Mod.Comment	Noise 1	Noise 2
35	BDE-105		57617.439	29904	27714	1.08	NO	13.94	1.01	13.90	13.97	31.811028	106.0		1132	975
36	*PBB-153		168099.531	96319	71781	1.34	NO	14.10	1.00	14.06	14.13	42.122161	105.3		669	916
37	*BDE-155		207641.687	120448	87194	1.38	NO	13.76	0.97	13.73	13.80	41.939598	104.8		988	462
38	BDE-154		171171.618	98820	72351	1.37	NO	14.15	1.00	14.11	14.18	41.376021	103.4		988	462
39	*BDE-153		78828.622	46151	32678	1.41	NO	14.88	1.00	14.85	14.92	40.971965	102.4		1701	2116
40	BDE-140		100597.965	58473	42125	1.39	NO	15.34	1.01	15.31	15.37	45.047423	112.6		1701	2116
41	BDE-138/BDE-166		105230.742	61493	43738	1.41	NO	15.84	1.07	15.81	15.88	85.475412	106.8		1701	2116
42	BDE-156		37169.107	21986	15183	1.45	NO	16.22	1.09	16.18	16.25	46.704096	116.8		1701	2116
43	BDE-128		44254.015	26164	18090	1.45	NO	16.84	0.99	16.80	16.87	48.652538	121.6		1701	2116
44	*BDE-184		108496.508	55069	53427	1.03	NO	16.65	0.98	16.62	16.68	51.789236	103.6		622	1295
45	BDE-183		70242.680	35948	34294	1.05	NO	17.01	1.00	16.98	17.04	49.835695	99.7		622	1295
46	BDE-191		46779.900	23998	22782	1.05	NO	17.57	1.03	17.54	17.61	53.711208	107.4		622	1295
47	BDE-181		47340.711	23684	23657	1.00	NO	18.12	1.01	18.09	18.16	53.641887	107.3		622	1295
48	BDE-190		30711.920	15494	15218	1.02	NO	18.27	1.02	18.24	18.31	51.510404	103.0		622	1295
49	*PBB-180		52343.963	26870	25474	1.05	NO	17.12	0.96	17.08	17.15	40.114114	100.3		660	405
50	*BDE-197		64238.368	28594	35644	0.80	NO	19.49	1.00	19.46	19.52	49.994303	100.0		469	936
51	BDE-203		48975.125	22017	26958	0.82	NO	19.77	1.01	19.73	19.80	52.384756	104.8		469	936
52	BDE-196		55082.180	24634	30448	0.81	NO	19.91	1.02	19.87	19.94	51.364464	102.7		469	936
53	*PBB-194		33630.060	19059	14571	1.31	NO	19.97	1.02	19.94	20.00	40.288867	100.7		322	320
54	*BDE-208		130771.125	66549	64222	1.04	NO	21.23	0.99	21.19	21.26	113.52415	113.5		1193	731
55	BDE-207		129239.590	65100	64139	1.01	NO	21.35	1.00	21.32	21.39	96.844333	96.8		1193	731
56	BDE-206		116932.024	58867	58066	1.01	NO	21.61	1.01	21.58	21.65	115.95015	116.0		1193	731
57	*PBB-206		50546.875	25556	24991	1.02	NO	21.07	0.99	21.04	21.11	110.46961	110.5		971	1178
58	*PBB-209		62561.405	34602	27959	1.24	NO	21.97	1.03	21.93	22.00	119.60834	119.6		768	717
59	*BDE-209		49288.117	27990	21298	1.31	NO	23.28	1.00	23.24	23.31	99.568768	99.6		462	364
60	*DBDPE		103553.082	52698	50855	1.04	NO	24.66	1.00	24.63	24.69	202.97444	101.5		296	410
61	13C12-BDE-3		2159010.6...	1062882	1096129	0.97	NO	5.11	0.48	5.08	5.15	60.385351	120.8		1090	2425
62	13C12-BDE-15		1012104.5...	335735	676369	0.50	NO	7.14	0.67	7.11	7.17	51.891789	103.8		2341	5908
63	13C12-BDE-28		443652.031	223016	220636	1.01	NO	8.68	0.81	8.65	8.72	49.955796	99.9		1987	1315
64	13C6-HBB		279166.133	203037	76129	2.67	NO	10.01	0.93	9.98	10.04	43.670408	87.3		1060	759
65	13C12-BDE-47		307988.336	187133	120855	1.55	NO	10.57	0.98	10.53	10.60	49.999210	100.0		2153	1079
66	13C12-BDE-77		333355.985	201093	132263	1.52	NO	11.33	1.06	11.29	11.36	51.363698	102.7		2153	1079
67	13C12-BDE-100		301631.953	152462	149170	1.02	NO	12.20	0.81	12.16	12.23	46.573769	93.1		1263	1250
68	13C12-BDE-99		178495.844	90601	87895	1.03	NO	12.71	0.84	12.67	12.74	47.003733	94.0		1263	1250
69	13C12-BDE-126		199753.578	100976	98777	1.02	NO	13.76	0.91	13.73	13.80	46.747869	93.5		1263	1250
70	13C12-BDE-154		226097.437	130642	95456	1.37	NO	14.13	0.93	14.10	14.17	43.209124	86.4		915	775
71	13C12-BDE-153		82978.063	49353	33625	1.47	NO	14.87	0.98	14.84	14.91	46.889260	93.8		1190	975

Quantify Sample Summary Report **MassLynx MassLynx V4.1 SCN 901**

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Last Altered: Thursday, September 16, 2021 14:59:12 Eastern Daylight Time
Printed: Friday, September 17, 2021 10:46:06 Eastern Daylight Time

Name: 10-210913B19, Date: 14-Sep-2021, Time: 03:40:24, ID: H10-21-CCV-0123, Description: PBDEX-CS#3-20, Vial: Tray1:1

	Target Analyte	#Hom	Total Area	Ion1 Area	Ion2 Area	Ra	Ra Fail=YES	RT	RRT	RT LCL	RT UCL	Conc.	%Rec	Mod.Comment	Noise 1	Noise 2
72	13C12-BDE-183		94361.957	47614	46748	1.02	NO	17.01	0.95	16.98	17.04	41.461991	82.9		475	539
73	13C12-BDE-197		163342.734	72648	90695	0.80	NO	19.49	1.09	19.46	19.52	93.013746	93.0		493	534
74	13C12-BDE-207		366903.188	184761	182142	1.01	NO	21.34	0.99	21.31	21.38	222.54575	89.0		1281	1046
75	13C12-BDE-209		128168.539	71691	56478	1.27	NO	23.27	1.08	23.23	23.30	301.53406	120.6		876	873
76	13C14-DBDPE		286395.938	143606	142790	1.01	NO	24.65	1.14	24.61	24.68	903.10200	180.6		601	1019
77	13C12-BDE-138 (CL)		73789.256	43892	29897	1.47	NO	15.83	1.05	15.80	15.86	49.518992	99.0		1190	975
78	13C12-BDE-79 (IS)		353673.985	215601	138073	1.56	NO	10.73	0.71	10.70	10.76	40.540839	81.1		2153	1079
79	13C12-BDE-139 (IS)		104070.067	61854	42216	1.47	NO	15.14	0.00	15.11	15.17	41.296079	82.6		1190	975
80	13C12-BDE-180 (IS)		53839.702	26896	26943	1.00	NO	17.88	1.18	17.84	17.91	45.810930	91.6		475	539
81	13C12-BDE-206 (IS)		310355.688	156001	154355	1.01	NO	21.61	1.43	21.58	21.65	214.96008	86.0		1281	1046
82	Total MoF1	3		895294								63.674436			29702	
83	Total DiF2	5		649643								155.93166			1203	
84	Total TriF3	6		584159								177.29334			2749	
85	Total PBEBF3	1		87370								24.696924			662	
86	Total TePBBF3	1		100935								23.711194			901	
87	Total HBBF4	1		34514								20.806367			462	
88	Total TetraF4	8		315757								167.05154			941	
89	Total PePBBF4	1		134716								38.363234			863	
90	Total PentaF5	9		375921								316.18935			1132	
91	Total PBB-153	1		96319								42.122161			669	
92	Total HexaF5	2		219268								83.315619			988	
93	Total HexaF6	5		214266								266.85143			1701	
94	Total HeptaF6	5		154193								260.48843			622	
95	Total PBB-180	1		26870								40.114114			660	
96	Total OctaF7	3		75245								153.74352			469	
97	Total PBB-194	1		19059								40.288867			322	
98	Total NonaF8	3		190516								326.31863			1193	
99	Total PBB-206	1		25556								110.46961			971	
100	Total PBB-209	1		34602								119.60834			768	
101	Total DecaF9	1		27990								99.568768			462	
102	Total DBDPEF10															
103	Total 13CMoF1	1		1062882								60.385351			1090	
104	Total 13CDiF2	1		335735								51.891789			2341	
105	Total 13CTriF3	1		223016								49.955796			1987	
106	Total 13CHBBF4	1		203037								43.670408			1060	
107	Total 13CTetraF4	3		603827								141.90375			2153	
108	Total 13CPentaF5	3		344039								140.32537			1263	

Quantify Sample Summary Report **MassLynx MassLynx V4.1 SCN 901**

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Name: 10-210913B19, Date: 14-Sep-2021, Time: 03:40:24, ID: H10-21-CCV-0123, Description: PBDEX-CS#3-20, Vial: Tray1:1

	Target Analyte	#Hom	Total Area	Ion1 Area	Ion2 Area	Ra	Ra Fail=YES	RT	RRT	RT LCL	RT UCL	Conc.	%Rec	Mod.Comment	Noise 1	Noise 2
109	Total 13CHexaF5	1		130642								43.209124			915	
110	Total 13CHexaF6	3		155100								137.70433			1190	
111	Total 13CHeptaF6	2		74510								87.272920			475	
112	Total 13COctaF7	1		72648								93.013746			493	
113	Total 13CNonaF8	2		340761								437.50583			1281	
114	Total 13CDecaF9	1		71691								301.53406			876	
115	Total 13CDBDPEF10															
116	Lockmass F1			0											336561	
117	Lockmass F2			0											599296	
118	Lockmass F3			0											336430	
119	Lockmass F4			0											95663	
120	Lockmass F5			0											71158	
121	Lockmass F6			0											28751	
122	Lockmass F7			0											14564	
123	Lockmass F8			0											15638	
124	Lockmass F9			0											27557	
125	Lockmass F10															

Quantify Audit Report MassLynx MassLynx V4.1 SCN 901

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Date	Time	Event	Details	Comments
15-Sep-21	14:22:19	Method modified		
15-Sep-21	14:22:26	Process Quantify		
15-Sep-21	14:22:31	Dataset Saved	Saved to 'I:\Organics Instrument\HIGHRES GCMS Complete...	
16-Sep-21	14:43:02	Peak modified	Sample:10-210913B26, Compound:TetraF4, RT:10.730	EG210916MA
16-Sep-21	14:43:02	Peak modified	Sample:10-210913B26, Compound:TetraF4, RT:10.730	EG210916MA
16-Sep-21	14:56:30	Peak modified	Sample:10-210913B26, Compound:TetraF4, RT:10.730	S
16-Sep-21	14:56:30	Peak added	Sample:10-210913B26, Compound:TetraF4, RT:10.730	S
16-Sep-21	14:56:30	Peak modified	Sample:10-210913B26, Compound:TetraF4, RT:10.730	S
16-Sep-21	14:56:30	Peak added	Sample:10-210913B26, Compound:TetraF4, RT:10.730	S
16-Sep-21	14:58:01	Peak modified	Sample:10-210913B26, Compound:TetraF4, RT:10.730	S
16-Sep-21	14:58:01	Peak modified	Sample:10-210913B26, Compound:TetraF4, RT:10.606	S
16-Sep-21	14:58:01	Peak modified	Sample:10-210913B26, Compound:TetraF4, RT:10.730	S
16-Sep-21	14:58:01	Peak modified	Sample:10-210913B26, Compound:TetraF4, RT:10.606	S
16-Sep-21	14:58:01	Peak modified	Sample:10-210913B26, Compound:TetraF4, RT:10.730	S
16-Sep-21	14:58:32	Peak modified	Sample:10-210913B26, Compound:TetraF4, RT:10.742	S
16-Sep-21	14:58:32	Peak modified	Sample:10-210913B26, Compound:TetraF4, RT:10.730	S
16-Sep-21	14:58:32	Peak modified	Sample:10-210913B26, Compound:TetraF4, RT:10.742	S
16-Sep-21	14:58:32	Peak modified	Sample:10-210913B26, Compound:TetraF4, RT:10.730	S
16-Sep-21	14:59:02	Peak modified	Sample:10-210913B26, Compound:TetraF4, RT:10.742	EG210916MS
14-Sep-21	15:22:17	Process Extract		
14-Sep-21	15:22:18	Process Integrate		
14-Sep-21	15:22:19	Process Quantify		
14-Sep-21	15:22:20	Dataset Created		
14-Sep-21	15:29:48	Method modified		
14-Sep-21	15:29:55	Process Quantify		
14-Sep-21	15:30:55	Peak added	Sample:10-210913B24, Compound:13CNonaF8, RT:21.626	
14-Sep-21	15:30:55	Peak added	Sample:10-210913B24, Compound:13CNonaF8, RT:21.638	
14-Sep-21	15:32:09	Method modified		
14-Sep-21	15:32:15	Process Quantify		
14-Sep-21	15:32:36	Method modified		
14-Sep-21	15:32:42	Process Quantify		
14-Sep-21	15:35:44	Pre modification peak	Sample:10-210913B18, Compound:13CHeptaF6, RT:17.888	
14-Sep-21	15:35:44	Peak modified	Sample:10-210913B18, Compound:13CHeptaF6, RT:17.888	
14-Sep-21	15:35:44	Peak deleted	Sample:10-210913B18, Compound:13CHeptaF6, RT:17.970	
14-Sep-21	15:35:44	Pre modification peak	Sample:10-210913B18, Compound:13CHeptaF6, RT:18.262	
14-Sep-21	15:35:44	Peak modified	Sample:10-210913B18, Compound:13CHeptaF6, RT:18.262	
14-Sep-21	15:35:44	Peak added	Sample:10-210913B18, Compound:13CHeptaF6, RT:18.262	
14-Sep-21	15:36:21	Peak added	Sample:10-210913B26, Compound:13CHeptaF6, RT:18.017	
14-Sep-21	15:36:21	Peak added	Sample:10-210913B26, Compound:13CHeptaF6, RT:18.028	
14-Sep-21	15:36:52	Peak modified	Sample:10-210913B26, Compound:13CHeptaF6, RT:18.017	
14-Sep-21	15:36:52	Peak modified	Sample:10-210913B26, Compound:13CHeptaF6, RT:18.028	
14-Sep-21	15:37:11	Peak added	Sample:10-210913B26, Compound:13COctaF7, RT:19.654	EG210914MA
14-Sep-21	15:37:42	Method modified		
14-Sep-21	15:37:49	Process Quantify		
14-Sep-21	15:41:15	Peak added	Sample:10-210913B27, Compound:13CNonaF8, RT:21.614	EG210914MA
14-Sep-21	15:41:15	Peak added	Sample:10-210913B27, Compound:13CNonaF8, RT:21.367	EG210914MA
14-Sep-21	15:41:15	Peak added	Sample:10-210913B27, Compound:13CNonaF8, RT:21.614	EG210914MA
14-Sep-21	15:41:15	Peak added	Sample:10-210913B27, Compound:13CNonaF8, RT:21.343	EG210914MA
14-Sep-21	15:41:52	Peak modified	Sample:10-210913B27, Compound:13CNonaF8, RT:21.367	EG210914MA
14-Sep-21	15:41:52	Peak modified	Sample:10-210913B27, Compound:13CNonaF8, RT:21.614	EG210914MA
14-Sep-21	15:41:52	Peak modified	Sample:10-210913B27, Compound:13CNonaF8, RT:21.614	EG210914MA
14-Sep-21	15:42:26	Method modified		
14-Sep-21	15:42:33	Process Quantify		

Quantify Audit Report MassLynx MassLynx V4.1 SCN 901

Dataset: I:\Organics Instrument\HIGHRES GCMS Completed Results Files\HR-10\2021\2109\10-210913B-Q1-PBDE.qld

Last Altered: Thursday, September 16, 2021 14:59:12 Eastern Daylight Time
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Date	Time	Event	Details	Comments
14-Sep-21	15:43:09	Pre modification peak	Sample:10-210913B27, Compound:13CTetraF4, RT:10.581	
14-Sep-21	15:43:09	Peak modified	Sample:10-210913B27, Compound:13CTetraF4, RT:10.581	EG210914MB
14-Sep-21	15:43:29	Pre modification peak	Sample:10-210913B27, Compound:13CHexaF5, RT:14.172	
14-Sep-21	15:43:29	Peak modified	Sample:10-210913B27, Compound:13CHexaF5, RT:14.172	EG210914MB
14-Sep-21	15:43:53	Pre modification peak	Sample:10-210913B27, Compound:13CHexaF6, RT:14.895	
14-Sep-21	15:43:53	Peak modified	Sample:10-210913B27, Compound:13CHexaF6, RT:14.895	EG210914MB
14-Sep-21	15:43:53	Pre modification peak	Sample:10-210913B27, Compound:13CHexaF6, RT:15.164	
14-Sep-21	15:43:53	Peak modified	Sample:10-210913B27, Compound:13CHexaF6, RT:15.164	EG210914MB
14-Sep-21	15:44:25	Pre modification peak	Sample:10-210913B27, Compound:13CHeptaF6, RT:17.888	
14-Sep-21	15:44:25	Peak modified	Sample:10-210913B27, Compound:13CHeptaF6, RT:17.888	EG210914MB
14-Sep-21	15:44:45	Pre modification peak	Sample:10-210913B27, Compound:13CHexaF6, RT:15.842	
14-Sep-21	15:44:45	Peak modified	Sample:10-210913B27, Compound:13CHexaF6, RT:15.842	EG210914MB
14-Sep-21	15:46:01	Pre modification peak	Sample:10-210913B28, Compound:13CDBDPEF10, RT:24.669	
14-Sep-21	15:46:01	Peak modified	Sample:10-210913B28, Compound:13CDBDPEF10, RT:24.669	EG210914MB
14-Sep-21	15:46:53	Peak added	Sample:10-210913B32, Compound:13CDecaF9, RT:23.276	EG210914MA
14-Sep-21	15:46:53	Peak added	Sample:10-210913B32, Compound:13CDecaF9, RT:23.267	EG210914MA
14-Sep-21	15:54:07	Dataset Saved	Saved to 'I:\Organics Instrument\HIGHRES GCMS Complete...	
14-Sep-21	15:54:47	Pre modification peak	Sample:10-210913B32, Compound:13CPentaF5, RT:12.693	
14-Sep-21	15:54:47	Peak modified	Sample:10-210913B32, Compound:13CPentaF5, RT:12.693	EG210914MB
14-Sep-21	15:55:17	Pre modification peak	Sample:10-210913B32, Compound:13CPentaF5, RT:13.750	
14-Sep-21	15:55:17	Peak modified	Sample:10-210913B32, Compound:13CPentaF5, RT:13.750	EG210914MB
14-Sep-21	15:55:17	Pre modification peak	Sample:10-210913B32, Compound:13CPentaF5, RT:13.762	
14-Sep-21	15:55:17	Peak modified	Sample:10-210913B32, Compound:13CPentaF5, RT:13.762	EG210914MB
14-Sep-21	15:55:32	Pre modification peak	Sample:10-210913B32, Compound:13CHexaF6, RT:14.872	
14-Sep-21	15:55:32	Peak modified	Sample:10-210913B32, Compound:13CHexaF6, RT:14.872	EG210914MB
14-Sep-21	15:57:20	Method modified		
14-Sep-21	15:57:27	Process Quantify		
14-Sep-21	15:58:47	Method modified		
14-Sep-21	15:58:53	Process Quantify		
14-Sep-21	15:59:47	Method modified		
14-Sep-21	15:59:54	Process Quantify		
14-Sep-21	16:01:18	Method modified		
14-Sep-21	16:01:26	Process Quantify		
14-Sep-21	16:03:11	Peak deleted	Sample:10-210913B18, Compound:13CDiF2, RT:7.026	
14-Sep-21	16:03:11	Peak deleted	Sample:10-210913B18, Compound:13CDiF2, RT:7.026	
14-Sep-21	16:04:26	Peak added	Sample:10-210913B25, Compound:DiF2, RT:7.182	EG210914MA
14-Sep-21	16:04:26	Peak added	Sample:10-210913B25, Compound:DiF2, RT:7.182	EG210914MA
14-Sep-21	16:04:26	Peak added	Sample:10-210913B25, Compound:DiF2, RT:6.905	EG210914MA
14-Sep-21	16:04:58	Peak added	Sample:10-210913B25, Compound:DiF2, RT:7.035	EG210914MA
14-Sep-21	16:04:58	Peak added	Sample:10-210913B25, Compound:DiF2, RT:7.035	EG210914MA
14-Sep-21	16:06:05	Pre modification peak	Sample:10-210913B26, Compound:DiF2, RT:7.026	
14-Sep-21	16:06:05	Peak modified	Sample:10-210913B26, Compound:DiF2, RT:7.026	EG210914MB
14-Sep-21	16:06:05	Pre modification peak	Sample:10-210913B26, Compound:DiF2, RT:6.905	
14-Sep-21	16:06:05	Peak modified	Sample:10-210913B26, Compound:DiF2, RT:6.905	EG210914MB
14-Sep-21	16:06:05	Peak added	Sample:10-210913B26, Compound:DiF2, RT:7.035	EG210914MB
14-Sep-21	16:06:19	Peak added	Sample:10-210913B26, Compound:DiF2, RT:6.723	EG210914MA
14-Sep-21	16:06:35	Peak added	Sample:10-210913B27, Compound:DiF2, RT:7.173	EG210914MA
14-Sep-21	16:06:35	Peak added	Sample:10-210913B27, Compound:DiF2, RT:7.173	EG210914MA
14-Sep-21	16:07:10	Peak added	Sample:10-210913B28, Compound:DiF2, RT:7.026	EG210914MA
14-Sep-21	16:07:10	Peak added	Sample:10-210913B28, Compound:DiF2, RT:6.896	EG210914MA
14-Sep-21	16:07:10	Peak added	Sample:10-210913B28, Compound:DiF2, RT:7.026	EG210914MA
14-Sep-21	16:07:10	Peak added	Sample:10-210913B28, Compound:DiF2, RT:6.905	EG210914MA
14-Sep-21	16:07:10	Peak added	Sample:10-210913B28, Compound:DiF2, RT:6.714	EG210914MA

Quantify Audit Report MassLynx MassLynx V4.1 SCN 901

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Last Altered: Thursday, September 16, 2021 14:59:12 Eastern Daylight Time
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Date	Time	Event	Details	Comments
14-Sep-21	16:07:44	Method modified		
14-Sep-21	16:07:51	Process Quantify		
14-Sep-21	16:09:00	Pre modification peak	Sample:10-210913B28, Compound:TriF3, RT:8.472	
14-Sep-21	16:09:00	Peak modified	Sample:10-210913B28, Compound:TriF3, RT:8.472	EG210914MB
14-Sep-21	16:09:00	Pre modification peak	Sample:10-210913B28, Compound:TriF3, RT:8.705	
14-Sep-21	16:09:00	Peak modified	Sample:10-210913B28, Compound:TriF3, RT:8.705	EG210914MB
14-Sep-21	16:09:00	Pre modification peak	Sample:10-210913B28, Compound:TriF3, RT:8.472	
14-Sep-21	16:09:00	Peak modified	Sample:10-210913B28, Compound:TriF3, RT:8.472	EG210914MB
14-Sep-21	16:09:31	Peak added	Sample:10-210913B28, Compound:TriF3, RT:9.038	EG210914MA
14-Sep-21	16:09:31	Peak added	Sample:10-210913B28, Compound:TriF3, RT:9.038	EG210914MA
14-Sep-21	16:10:01	Pre modification peak	Sample:10-210913B28, Compound:TriF3, RT:8.927	
14-Sep-21	16:10:01	Peak modified	Sample:10-210913B28, Compound:TriF3, RT:8.927	EG210914MB
14-Sep-21	16:10:01	Pre modification peak	Sample:10-210913B28, Compound:TriF3, RT:8.938	
14-Sep-21	16:10:01	Peak modified	Sample:10-210913B28, Compound:TriF3, RT:8.938	EG210914MB
14-Sep-21	16:10:22	Peak added	Sample:10-210913B27, Compound:TriF3, RT:8.483	EG210914MA
14-Sep-21	16:10:22	Peak added	Sample:10-210913B27, Compound:TriF3, RT:8.505	EG210914MA
14-Sep-21	16:10:45	Peak modified	Sample:10-210913B27, Compound:TriF3, RT:8.483	EG210914MA
14-Sep-21	16:10:45	Peak modified	Sample:10-210913B27, Compound:TriF3, RT:8.505	EG210914MA
14-Sep-21	16:11:20	Pre modification peak	Sample:10-210913B26, Compound:TriF3, RT:8.705	
14-Sep-21	16:11:20	Peak modified	Sample:10-210913B26, Compound:TriF3, RT:8.705	EG210914MB
14-Sep-21	16:11:20	Pre modification peak	Sample:10-210913B26, Compound:TriF3, RT:8.705	
14-Sep-21	16:11:20	Peak modified	Sample:10-210913B26, Compound:TriF3, RT:8.705	EG210914MB
14-Sep-21	16:12:41	Pre modification peak	Sample:10-210913B26, Compound:TriF3, RT:8.250	
14-Sep-21	16:12:41	Peak modified	Sample:10-210913B26, Compound:TriF3, RT:8.250	EG210914MA
14-Sep-21	16:12:41	Peak added	Sample:10-210913B26, Compound:TriF3, RT:8.316	EG210914MA
14-Sep-21	16:12:41	Peak added	Sample:10-210913B26, Compound:TriF3, RT:8.316	EG210914MA
14-Sep-21	16:12:41	Peak added	Sample:10-210913B26, Compound:TriF3, RT:8.250	EG210914MA
14-Sep-21	16:12:58	Peak added	Sample:10-210913B25, Compound:TriF3, RT:8.538	EG210914MA
14-Sep-21	16:12:58	Peak added	Sample:10-210913B25, Compound:TriF3, RT:8.538	EG210914MA
14-Sep-21	16:13:47	Peak added	Sample:10-210913B17, Compound:TriF3, RT:7.972	EG210914MA
14-Sep-21	16:13:47	Peak added	Sample:10-210913B17, Compound:TriF3, RT:7.716	EG210914MA
14-Sep-21	16:14:01	Peak added	Sample:10-210913B17, Compound:TriF3, RT:9.005	EG210914MA
14-Sep-21	16:15:18	Peak deleted	Sample:10-210913B25, Compound:13CHBBF4, RT:10.655	EG210914MB
14-Sep-21	16:15:18	Pre modification peak	Sample:10-210913B25, Compound:13CHBBF4, RT:10.407	
14-Sep-21	16:15:18	Peak modified	Sample:10-210913B25, Compound:13CHBBF4, RT:10.407	EG210914MB
14-Sep-21	16:15:18	Pre modification peak	Sample:10-210913B25, Compound:13CHBBF4, RT:10.680	
14-Sep-21	16:15:18	Peak modified	Sample:10-210913B25, Compound:13CHBBF4, RT:10.680	EG210914MB
14-Sep-21	16:15:18	Pre modification peak	Sample:10-210913B25, Compound:13CHBBF4, RT:10.394	
14-Sep-21	16:15:18	Peak modified	Sample:10-210913B25, Compound:13CHBBF4, RT:10.394	EG210914MB
14-Sep-21	16:15:44	Method modified		
14-Sep-21	16:15:51	Process Quantify		
14-Sep-21	16:16:39	Peak added	Sample:10-210913B28, Compound:HBBF4, RT:10.146	EG210914MA
14-Sep-21	16:17:16	Peak added	Sample:10-210913B17, Compound:HBBF4, RT:10.009	EG210914MA
14-Sep-21	16:17:25	Peak added	Sample:10-210913B16, Compound:HBBF4, RT:10.009	EG210914MA
14-Sep-21	16:17:39	Peak modified	Sample:10-210913B16, Compound:HBBF4, RT:10.009	EG210914MA
14-Sep-21	16:17:59	Peak added	Sample:10-210913B15, Compound:HBBF4, RT:10.009	EG210914MA
14-Sep-21	16:17:59	Peak added	Sample:10-210913B15, Compound:HBBF4, RT:10.021	EG210914MA
14-Sep-21	16:18:10	Peak modified	Sample:10-210913B15, Compound:HBBF4, RT:10.021	EG210914MA
14-Sep-21	16:18:27	Peak added	Sample:10-210913B14, Compound:HBBF4, RT:10.009	EG210914MA
14-Sep-21	16:18:27	Peak added	Sample:10-210913B14, Compound:HBBF4, RT:10.021	EG210914MA
14-Sep-21	16:18:31	Dataset Saved	Saved to 'I:\Organics Instrument\HIGHRES GCMS Complete...	
14-Sep-21	16:19:10	Pre modification peak	Sample:10-210913B15, Compound:TetraF4, RT:10.568	
14-Sep-21	16:19:10	Peak modified	Sample:10-210913B15, Compound:TetraF4, RT:10.568	EG210914MA

Date	Time	Event	Details	Comments
14-Sep-21	16:19:10	Peak added	Sample:10-210913B15, Compound:TetraF4, RT:10.568	EG210914MA
14-Sep-21	16:19:28	Pre modification peak	Sample:10-210913B16, Compound:TetraF4, RT:10.568	
14-Sep-21	16:19:28	Peak modified	Sample:10-210913B16, Compound:TetraF4, RT:10.568	EG210914MB
14-Sep-21	16:19:28	Pre modification peak	Sample:10-210913B16, Compound:TetraF4, RT:10.568	
14-Sep-21	16:19:28	Peak modified	Sample:10-210913B16, Compound:TetraF4, RT:10.568	EG210914MB
14-Sep-21	16:21:26	Pre modification peak	Sample:10-210913B17, Compound:TetraF4, RT:10.556	
14-Sep-21	16:21:26	Peak modified	Sample:10-210913B17, Compound:TetraF4, RT:10.556	EG210914MB
14-Sep-21	16:21:26	Pre modification peak	Sample:10-210913B17, Compound:TetraF4, RT:10.680	
14-Sep-21	16:21:26	Peak modified	Sample:10-210913B17, Compound:TetraF4, RT:10.680	EG210914MB
14-Sep-21	16:21:26	Pre modification peak	Sample:10-210913B17, Compound:TetraF4, RT:10.556	
14-Sep-21	16:21:26	Peak modified	Sample:10-210913B17, Compound:TetraF4, RT:10.556	EG210914MB
14-Sep-21	16:21:26	Pre modification peak	Sample:10-210913B17, Compound:TetraF4, RT:10.680	
14-Sep-21	16:21:26	Peak modified	Sample:10-210913B17, Compound:TetraF4, RT:10.680	EG210914MB
14-Sep-21	16:22:06	Peak modified	Sample:10-210913B17, Compound:TetraF4, RT:10.693	
14-Sep-21	16:22:06	Peak modified	Sample:10-210913B17, Compound:TetraF4, RT:10.693	
14-Sep-21	16:22:37	Pre modification peak	Sample:10-210913B17, Compound:TetraF4, RT:10.059	
14-Sep-21	16:22:37	Peak modified	Sample:10-210913B17, Compound:TetraF4, RT:10.059	EG210914MB
14-Sep-21	16:22:37	Pre modification peak	Sample:10-210913B17, Compound:TetraF4, RT:10.121	
14-Sep-21	16:22:37	Peak modified	Sample:10-210913B17, Compound:TetraF4, RT:10.121	EG210914MB
14-Sep-21	16:23:24	Pre modification peak	Sample:10-210913B18, Compound:13CTetraF4, RT:10.891	
14-Sep-21	16:23:24	Peak modified	Sample:10-210913B18, Compound:13CTetraF4, RT:10.891	
14-Sep-21	16:23:24	Pre modification peak	Sample:10-210913B18, Compound:13CTetraF4, RT:10.953	
14-Sep-21	16:23:24	Peak modified	Sample:10-210913B18, Compound:13CTetraF4, RT:10.953	
14-Sep-21	16:23:24	Pre modification peak	Sample:10-210913B18, Compound:13CTetraF4, RT:10.891	
14-Sep-21	16:23:24	Peak modified	Sample:10-210913B18, Compound:13CTetraF4, RT:10.891	
14-Sep-21	16:23:24	Pre modification peak	Sample:10-210913B18, Compound:13CTetraF4, RT:10.953	
14-Sep-21	16:23:24	Peak modified	Sample:10-210913B18, Compound:13CTetraF4, RT:10.953	
14-Sep-21	16:23:41	Peak deleted	Sample:10-210913B23, Compound:13CTetraF4, RT:10.655	
14-Sep-21	16:24:29	Pre modification peak	Sample:10-210913B24, Compound:TetraF4, RT:10.233	
14-Sep-21	16:24:29	Peak modified	Sample:10-210913B24, Compound:TetraF4, RT:10.233	EG210914MB
14-Sep-21	16:24:29	Pre modification peak	Sample:10-210913B24, Compound:TetraF4, RT:10.332	
14-Sep-21	16:24:29	Peak modified	Sample:10-210913B24, Compound:TetraF4, RT:10.332	EG210914MB
14-Sep-21	16:24:29	Peak added	Sample:10-210913B24, Compound:TetraF4, RT:10.394	EG210914MB
14-Sep-21	16:24:58	Pre modification peak	Sample:10-210913B24, Compound:TetraF4, RT:10.233	
14-Sep-21	16:24:58	Peak modified	Sample:10-210913B24, Compound:TetraF4, RT:10.233	EG210914MS
14-Sep-21	16:24:58	Peak modified	Sample:10-210913B24, Compound:TetraF4, RT:10.332	EG210914MS
14-Sep-21	16:24:58	Peak modified	Sample:10-210913B24, Compound:TetraF4, RT:10.394	EG210914MS
14-Sep-21	16:25:34	Pre modification peak	Sample:10-210913B25, Compound:TetraF4, RT:10.295	
14-Sep-21	16:25:34	Peak modified	Sample:10-210913B25, Compound:TetraF4, RT:10.295	EG210914MB
14-Sep-21	16:25:34	Pre modification peak	Sample:10-210913B25, Compound:TetraF4, RT:10.295	
14-Sep-21	16:25:34	Peak modified	Sample:10-210913B25, Compound:TetraF4, RT:10.295	EG210914MB
14-Sep-21	16:25:50	Peak modified	Sample:10-210913B25, Compound:TetraF4, RT:10.295	EG210914MB
14-Sep-21	16:27:45	Pre modification peak	Sample:10-210913B26, Compound:TetraF4, RT:10.606	
14-Sep-21	16:27:45	Peak modified	Sample:10-210913B26, Compound:TetraF4, RT:10.606	EG210914MB
14-Sep-21	16:27:45	Pre modification peak	Sample:10-210913B26, Compound:TetraF4, RT:10.606	
14-Sep-21	16:27:45	Peak modified	Sample:10-210913B26, Compound:TetraF4, RT:10.606	EG210914MB
14-Sep-21	16:29:12	Peak deleted	Sample:10-210913B26, Compound:TetraF4, RT:10.730	EG210914MB
14-Sep-21	16:29:12	Peak deleted	Sample:10-210913B26, Compound:TetraF4, RT:10.730	EG210914MB
14-Sep-21	16:29:12	Pre modification peak	Sample:10-210913B26, Compound:TetraF4, RT:10.891	
14-Sep-21	16:29:12	Peak modified	Sample:10-210913B26, Compound:TetraF4, RT:10.891	EG210914MB
14-Sep-21	16:29:51	Peak added	Sample:10-210913B27, Compound:TetraF4, RT:10.245	EG210914MA
14-Sep-21	16:29:51	Peak added	Sample:10-210913B27, Compound:TetraF4, RT:10.245	EG210914MA
14-Sep-21	16:30:04	Pre modification peak	Sample:10-210913B27, Compound:TetraF4, RT:10.581	

Quantify Audit Report MassLynx MassLynx V4.1 SCN 901

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14-Sep-21	16:30:04	Peak modified	Sample:10-210913B27, Compound:TetraF4, RT:10.581	EG210914MB
14-Sep-21	16:30:47	Pre modification peak	Sample:10-210913B28, Compound:TetraF4, RT:10.245	
14-Sep-21	16:30:47	Peak modified	Sample:10-210913B28, Compound:TetraF4, RT:10.245	EG210914MB
14-Sep-21	16:30:47	Pre modification peak	Sample:10-210913B28, Compound:TetraF4, RT:10.581	
14-Sep-21	16:30:47	Peak modified	Sample:10-210913B28, Compound:TetraF4, RT:10.581	EG210914MB
14-Sep-21	16:30:47	Pre modification peak	Sample:10-210913B28, Compound:TetraF4, RT:10.245	
14-Sep-21	16:30:47	Peak modified	Sample:10-210913B28, Compound:TetraF4, RT:10.245	EG210914MB
14-Sep-21	16:30:47	Pre modification peak	Sample:10-210913B28, Compound:TetraF4, RT:10.581	
14-Sep-21	16:30:47	Peak modified	Sample:10-210913B28, Compound:TetraF4, RT:10.581	EG210914MB
14-Sep-21	16:30:47	Pre modification peak	Sample:10-210913B28, Compound:TetraF4, RT:10.866	
14-Sep-21	16:30:47	Peak modified	Sample:10-210913B28, Compound:TetraF4, RT:10.866	EG210914MB
14-Sep-21	16:31:38	Peak modified	Sample:10-210913B28, Compound:TetraF4, RT:10.245	EG210914MA
14-Sep-21	16:31:38	Peak added	Sample:10-210913B28, Compound:TetraF4, RT:10.307	EG210914MA
14-Sep-21	16:31:38	Peak added	Sample:10-210913B28, Compound:TetraF4, RT:10.158	EG210914MA
14-Sep-21	16:31:38	Peak added	Sample:10-210913B28, Compound:TetraF4, RT:10.320	EG210914MA
14-Sep-21	16:31:38	Peak added	Sample:10-210913B28, Compound:TetraF4, RT:10.158	EG210914MA
14-Sep-21	16:32:18	Peak added	Sample:10-210913B32, Compound:TetraF4, RT:10.556	EG210914MA
14-Sep-21	16:32:18	Peak added	Sample:10-210913B32, Compound:TetraF4, RT:10.556	EG210914MA
14-Sep-21	16:32:34	Peak modified	Sample:10-210913B32, Compound:TetraF4, RT:10.556	EG210914MA
14-Sep-21	16:32:50	Peak modified	Sample:10-210913B32, Compound:TetraF4, RT:10.556	EG210914MA
14-Sep-21	16:32:59	Dataset Saved	Saved to 'I:\Organics Instrument\HIGHRES GCMS Complete...	
14-Sep-21	16:33:57	Peak added	Sample:10-210913B14, Compound:PentaF5, RT:12.196	EG210914MA
14-Sep-21	16:33:57	Peak added	Sample:10-210913B14, Compound:PentaF5, RT:12.209	EG210914MA
14-Sep-21	16:34:16	Peak added	Sample:10-210913B16, Compound:PentaF5, RT:12.184	EG210914MA
14-Sep-21	16:34:16	Peak added	Sample:10-210913B16, Compound:PentaF5, RT:12.706	EG210914MA
14-Sep-21	16:34:16	Peak added	Sample:10-210913B16, Compound:PentaF5, RT:12.196	EG210914MA
14-Sep-21	16:34:35	Pre modification peak	Sample:10-210913B16, Compound:PentaF5, RT:12.706	
14-Sep-21	16:34:35	Peak modified	Sample:10-210913B16, Compound:PentaF5, RT:12.706	EG210914MA
14-Sep-21	16:34:35	Peak modified	Sample:10-210913B16, Compound:PentaF5, RT:12.196	EG210914MA
14-Sep-21	16:35:12	Pre modification peak	Sample:10-210913B17, Compound:PentaF5, RT:12.693	
14-Sep-21	16:35:12	Peak modified	Sample:10-210913B17, Compound:PentaF5, RT:12.693	EG210914MB
14-Sep-21	16:35:12	Pre modification peak	Sample:10-210913B17, Compound:PentaF5, RT:12.693	
14-Sep-21	16:35:12	Peak modified	Sample:10-210913B17, Compound:PentaF5, RT:12.693	EG210914MB
14-Sep-21	16:35:51	Pre modification peak	Sample:10-210913B17, Compound:PentaF5, RT:13.116	
14-Sep-21	16:35:51	Peak modified	Sample:10-210913B17, Compound:PentaF5, RT:13.116	EG210914MB
14-Sep-21	16:35:51	Pre modification peak	Sample:10-210913B17, Compound:PentaF5, RT:13.104	
14-Sep-21	16:35:51	Peak modified	Sample:10-210913B17, Compound:PentaF5, RT:13.104	EG210914MB
14-Sep-21	16:36:30	Peak modified	Sample:10-210913B17, Compound:PentaF5, RT:13.116	EG210914MB
14-Sep-21	16:36:30	Pre modification peak	Sample:10-210913B17, Compound:PentaF5, RT:13.588	
14-Sep-21	16:36:30	Peak modified	Sample:10-210913B17, Compound:PentaF5, RT:13.588	EG210914MB
14-Sep-21	16:36:30	Peak modified	Sample:10-210913B17, Compound:PentaF5, RT:13.104	EG210914MB
14-Sep-21	16:36:30	Pre modification peak	Sample:10-210913B17, Compound:PentaF5, RT:13.601	
14-Sep-21	16:36:30	Peak modified	Sample:10-210913B17, Compound:PentaF5, RT:13.601	EG210914MB
14-Sep-21	16:37:35	Pre modification peak	Sample:10-210913B18, Compound:PentaF5, RT:12.842	
14-Sep-21	16:37:35	Peak modified	Sample:10-210913B18, Compound:PentaF5, RT:12.842	EG210914MB
14-Sep-21	16:37:35	Pre modification peak	Sample:10-210913B18, Compound:PentaF5, RT:12.842	
14-Sep-21	16:37:35	Peak modified	Sample:10-210913B18, Compound:PentaF5, RT:12.842	EG210914MB
14-Sep-21	16:37:45	Dataset Saved	Saved to 'I:\Organics Instrument\HIGHRES GCMS Complete...	
14-Sep-21	16:38:53	Peak added	Sample:10-210913B24, Compound:PentaF5, RT:13.762	EG210914MA
14-Sep-21	16:38:53	Peak added	Sample:10-210913B24, Compound:PentaF5, RT:13.774	EG210914MA
14-Sep-21	16:39:14	Peak added	Sample:10-210913B25, Compound:PentaF5, RT:12.432	EG210914MA
14-Sep-21	16:39:14	Peak added	Sample:10-210913B25, Compound:PentaF5, RT:12.432	EG210914MA
14-Sep-21	16:40:40	Pre modification peak	Sample:10-210913B26, Compound:PentaF5, RT:12.755	

Quantify Audit Report MassLynx MassLynx V4.1 SCN 901

Dataset: I:\Organics Instrument\HIGHRES GCMS Completed Results Files\HR-10\2021\2109\10-210913B-Q1-PBDE.qld

Last Altered: Thursday, September 16, 2021 14:59:12 Eastern Daylight Time
Printed: Friday, September 17, 2021 10:46:06 Eastern Daylight Time

Date	Time	Event	Details	Comments
14-Sep-21	16:40:40	Peak modified	Sample:10-210913B26, Compound:PentaF5, RT:12.755	EG210914MB
14-Sep-21	16:40:40	Pre modification peak	Sample:10-210913B26, Compound:PentaF5, RT:13.165	
14-Sep-21	16:40:40	Peak modified	Sample:10-210913B26, Compound:PentaF5, RT:13.165	EG210914MB
14-Sep-21	16:40:40	Pre modification peak	Sample:10-210913B26, Compound:PentaF5, RT:13.638	
14-Sep-21	16:40:40	Peak modified	Sample:10-210913B26, Compound:PentaF5, RT:13.638	EG210914MB
14-Sep-21	16:40:40	Pre modification peak	Sample:10-210913B26, Compound:PentaF5, RT:13.824	
14-Sep-21	16:40:40	Peak modified	Sample:10-210913B26, Compound:PentaF5, RT:13.824	EG210914MB
14-Sep-21	16:40:40	Pre modification peak	Sample:10-210913B26, Compound:PentaF5, RT:12.755	
14-Sep-21	16:40:40	Peak modified	Sample:10-210913B26, Compound:PentaF5, RT:12.755	EG210914MB
14-Sep-21	16:40:40	Pre modification peak	Sample:10-210913B26, Compound:PentaF5, RT:13.153	
14-Sep-21	16:40:40	Peak modified	Sample:10-210913B26, Compound:PentaF5, RT:13.153	EG210914MB
14-Sep-21	16:40:40	Pre modification peak	Sample:10-210913B26, Compound:PentaF5, RT:13.812	
14-Sep-21	16:40:40	Peak modified	Sample:10-210913B26, Compound:PentaF5, RT:13.812	EG210914MB
14-Sep-21	16:41:27	Peak added	Sample:10-210913B27, Compound:PentaF5, RT:12.259	EG210914MA
14-Sep-21	16:41:27	Peak added	Sample:10-210913B27, Compound:PentaF5, RT:12.755	EG210914MA
14-Sep-21	16:41:27	Peak added	Sample:10-210913B27, Compound:PentaF5, RT:12.271	EG210914MA
14-Sep-21	16:41:27	Peak added	Sample:10-210913B27, Compound:PentaF5, RT:12.755	EG210914MA
14-Sep-21	16:41:54	Pre modification peak	Sample:10-210913B28, Compound:PentaF5, RT:12.755	
14-Sep-21	16:41:54	Peak modified	Sample:10-210913B28, Compound:PentaF5, RT:12.755	EG210914MB
14-Sep-21	16:41:54	Pre modification peak	Sample:10-210913B28, Compound:PentaF5, RT:13.638	
14-Sep-21	16:41:54	Peak modified	Sample:10-210913B28, Compound:PentaF5, RT:13.638	EG210914MB
14-Sep-21	16:41:54	Peak added	Sample:10-210913B28, Compound:PentaF5, RT:13.638	EG210914MB
14-Sep-21	16:42:20	Peak modified	Sample:10-210913B28, Compound:PentaF5, RT:13.638	EG210914MA
14-Sep-21	16:42:41	Peak added	Sample:10-210913B31, Compound:PentaF5, RT:12.196	EG210914MB
14-Sep-21	16:42:41	Peak added	Sample:10-210913B31, Compound:PentaF5, RT:12.196	EG210914MB
14-Sep-21	16:42:47	Dataset Saved	Saved to 'I:\Organics Instrument\HIGHRES GCMS Complete...	
14-Sep-21	16:43:00	Pre modification peak	Sample:10-210913B31, Compound:PentaF5, RT:12.706	
14-Sep-21	16:43:00	Peak modified	Sample:10-210913B31, Compound:PentaF5, RT:12.706	EG210914MB
14-Sep-21	16:43:07	Dataset Saved	Saved to 'I:\Organics Instrument\HIGHRES GCMS Complete...	
14-Sep-21	16:43:22	Peak added	Sample:10-210913B32, Compound:PentaF5, RT:12.706	EG210914MA
14-Sep-21	16:43:22	Peak added	Sample:10-210913B32, Compound:PentaF5, RT:12.706	EG210914MA
14-Sep-21	16:44:24	Pre modification peak	Sample:10-210913B17, Compound:HexaF5, RT:13.762	
14-Sep-21	16:44:24	Peak modified	Sample:10-210913B17, Compound:HexaF5, RT:13.762	EG210914MB
14-Sep-21	16:44:24	Pre modification peak	Sample:10-210913B17, Compound:HexaF5, RT:14.135	
14-Sep-21	16:44:24	Peak modified	Sample:10-210913B17, Compound:HexaF5, RT:14.135	EG210914MB
14-Sep-21	16:44:24	Pre modification peak	Sample:10-210913B17, Compound:HexaF5, RT:14.135	
14-Sep-21	16:44:24	Peak modified	Sample:10-210913B17, Compound:HexaF5, RT:14.135	EG210914MB
14-Sep-21	16:45:14	Pre modification peak	Sample:10-210913B24, Compound:HexaF5, RT:14.309	
14-Sep-21	16:45:14	Peak modified	Sample:10-210913B24, Compound:HexaF5, RT:14.309	EG210914MB
14-Sep-21	16:45:33	Peak added	Sample:10-210913B25, Compound:HexaF5, RT:14.284	EG210914MA
14-Sep-21	16:45:33	Peak added	Sample:10-210913B25, Compound:HexaF5, RT:14.296	EG210914MA
14-Sep-21	16:46:58	Pre modification peak	Sample:10-210913B17, Compound:HexaF6, RT:14.872	
14-Sep-21	16:46:58	Peak modified	Sample:10-210913B17, Compound:HexaF6, RT:14.872	EG210914MB
14-Sep-21	16:46:58	Pre modification peak	Sample:10-210913B17, Compound:HexaF6, RT:15.819	
14-Sep-21	16:46:58	Peak modified	Sample:10-210913B17, Compound:HexaF6, RT:15.819	EG210914MB
14-Sep-21	16:46:58	Pre modification peak	Sample:10-210913B17, Compound:HexaF6, RT:15.830	
14-Sep-21	16:46:58	Peak modified	Sample:10-210913B17, Compound:HexaF6, RT:15.830	EG210914MB
14-Sep-21	16:47:20	Pre modification peak	Sample:10-210913B17, Compound:HexaF6, RT:15.328	
14-Sep-21	16:47:20	Peak modified	Sample:10-210913B17, Compound:HexaF6, RT:15.328	EG210914MB
14-Sep-21	16:48:27	Pre modification peak	Sample:10-210913B26, Compound:HexaF6, RT:14.953	
14-Sep-21	16:48:27	Peak modified	Sample:10-210913B26, Compound:HexaF6, RT:14.953	EG210914MB
14-Sep-21	16:48:27	Pre modification peak	Sample:10-210913B26, Compound:HexaF6, RT:14.953	
14-Sep-21	16:48:27	Peak modified	Sample:10-210913B26, Compound:HexaF6, RT:14.953	EG210914MB

Date	Time	Event	Details	Comments
14-Sep-21	16:49:21	Pre modification peak	Sample:10-210913B17, Compound:HeptaF6, RT:17.011	
14-Sep-21	16:49:21	Peak modified	Sample:10-210913B17, Compound:HeptaF6, RT:17.011	EG210914MB
14-Sep-21	16:50:54	Pre modification peak	Sample:10-210913B17, Compound:OctaF7, RT:19.894	
14-Sep-21	16:50:54	Peak modified	Sample:10-210913B17, Compound:OctaF7, RT:19.894	EG210914MB
14-Sep-21	16:51:28	Pre modification peak	Sample:10-210913B17, Compound:OctaF7, RT:19.755	
14-Sep-21	16:51:28	Peak modified	Sample:10-210913B17, Compound:OctaF7, RT:19.755	EG210914MB
14-Sep-21	16:51:28	Pre modification peak	Sample:10-210913B17, Compound:OctaF7, RT:19.755	
14-Sep-21	16:51:28	Peak modified	Sample:10-210913B17, Compound:OctaF7, RT:19.755	EG210914MB
14-Sep-21	16:52:09	Peak added	Sample:10-210913B26, Compound:OctaF7, RT:20.121	EG210914MA
14-Sep-21	16:52:09	Peak added	Sample:10-210913B26, Compound:OctaF7, RT:20.108	EG210914MA
14-Sep-21	16:52:18	Peak modified	Sample:10-210913B26, Compound:OctaF7, RT:20.108	EG210914MA
14-Sep-21	16:53:15	Peak added	Sample:10-210913B26, Compound:OctaF7, RT:19.944	EG210914MA
14-Sep-21	16:53:15	Peak modified	Sample:10-210913B26, Compound:OctaF7, RT:20.108	EG210914MA
14-Sep-21	16:53:15	Peak added	Sample:10-210913B26, Compound:OctaF7, RT:19.932	EG210914MA
14-Sep-21	16:53:42	Peak added	Sample:10-210913B28, Compound:OctaF7, RT:19.515	EG210914MA
14-Sep-21	16:53:42	Peak added	Sample:10-210913B28, Compound:OctaF7, RT:19.503	EG210914MA
14-Sep-21	16:54:51	Pre modification peak	Sample:10-210913B09, Compound:NonaF8, RT:21.225	
14-Sep-21	16:54:51	Peak modified	Sample:10-210913B09, Compound:NonaF8, RT:21.225	EG210914MB
14-Sep-21	16:54:51	Pre modification peak	Sample:10-210913B09, Compound:NonaF8, RT:21.343	
14-Sep-21	16:54:51	Peak modified	Sample:10-210913B09, Compound:NonaF8, RT:21.343	EG210914MB
14-Sep-21	16:54:51	Pre modification peak	Sample:10-210913B09, Compound:NonaF8, RT:21.343	
14-Sep-21	16:54:51	Peak modified	Sample:10-210913B09, Compound:NonaF8, RT:21.343	EG210914MB
14-Sep-21	16:55:21	Peak added	Sample:10-210913B14, Compound:NonaF8, RT:21.355	EG210914MA
14-Sep-21	16:55:21	Peak added	Sample:10-210913B14, Compound:NonaF8, RT:21.626	EG210914MA
14-Sep-21	16:55:21	Peak added	Sample:10-210913B14, Compound:NonaF8, RT:21.343	EG210914MA
14-Sep-21	16:55:21	Peak added	Sample:10-210913B14, Compound:NonaF8, RT:21.614	EG210914MA
14-Sep-21	16:55:43	Peak modified	Sample:10-210913B14, Compound:NonaF8, RT:21.355	EG210914MA
14-Sep-21	16:56:04	Peak added	Sample:10-210913B14, Compound:NonaF8, RT:21.237	EG210914MA
14-Sep-21	16:56:04	Peak added	Sample:10-210913B14, Compound:NonaF8, RT:21.237	EG210914MA
14-Sep-21	16:56:16	Peak deleted	Sample:10-210913B14, Compound:NonaF8, RT:21.237	
14-Sep-21	16:56:16	Peak deleted	Sample:10-210913B14, Compound:NonaF8, RT:21.237	
14-Sep-21	16:57:05	Peak added	Sample:10-210913B15, Compound:NonaF8, RT:21.237	EG210914MA
14-Sep-21	16:57:05	Peak added	Sample:10-210913B15, Compound:NonaF8, RT:21.249	EG210914MA
14-Sep-21	16:57:22	Peak added	Sample:10-210913B16, Compound:NonaF8, RT:21.614	EG210914MA
14-Sep-21	16:57:22	Peak added	Sample:10-210913B16, Compound:NonaF8, RT:21.614	EG210914MA
14-Sep-21	16:57:54	Pre modification peak	Sample:10-210913B17, Compound:NonaF8, RT:21.343	
14-Sep-21	16:57:54	Peak modified	Sample:10-210913B17, Compound:NonaF8, RT:21.343	EG210914MA
14-Sep-21	17:00:11	Peak added	Sample:10-210913B14, Compound:DecaF9, RT:23.276	EG210914MA
14-Sep-21	17:00:11	Peak added	Sample:10-210913B14, Compound:DecaF9, RT:23.276	EG210914MA
14-Sep-21	17:00:27	Peak added	Sample:10-210913B15, Compound:DecaF9, RT:23.267	EG210914MA
14-Sep-21	17:00:27	Peak added	Sample:10-210913B15, Compound:DecaF9, RT:23.284	EG210914MA
14-Sep-21	17:00:44	Peak added	Sample:10-210913B16, Compound:DecaF9, RT:23.258	EG210914MA
14-Sep-21	17:00:44	Peak added	Sample:10-210913B16, Compound:DecaF9, RT:23.267	EG210914MA
14-Sep-21	17:00:53	Peak modified	Sample:10-210913B16, Compound:DecaF9, RT:23.267	EG210914MA
14-Sep-21	17:01:24	Peak added	Sample:10-210913B25, Compound:13CDecaF9, RT:23.284	EG210914MA
14-Sep-21	17:01:24	Peak added	Sample:10-210913B25, Compound:13CDecaF9, RT:23.293	EG210914MA
14-Sep-21	17:01:24	Peak added	Sample:10-210913B25, Compound:DecaF9, RT:23.293	EG210914MA
14-Sep-21	17:01:24	Peak added	Sample:10-210913B25, Compound:DecaF9, RT:23.293	EG210914MA
14-Sep-21	17:01:49	Peak added	Sample:10-210913B28, Compound:DecaF9, RT:23.284	EG210914MA
14-Sep-21	17:01:49	Peak added	Sample:10-210913B28, Compound:DecaF9, RT:23.284	EG210914MA
14-Sep-21	17:02:08	Peak modified	Sample:10-210913B28, Compound:DecaF9, RT:23.284	EG210914MA
14-Sep-21	17:02:30	Peak added	Sample:10-210913B31, Compound:DecaF9, RT:23.276	EG210914MA
14-Sep-21	17:02:30	Peak added	Sample:10-210913B31, Compound:DecaF9, RT:23.258	EG210914MA

Quantify Audit Report MassLynx MassLynx V4.1 SCN 901

Dataset: I:\Organics Instrument\HIGHRES GCMS Completed Results Files\HR-10\2021\2109\10-210913B-Q1-PBDE.qld

Last Altered: Thursday, September 16, 2021 14:59:12 Eastern Daylight Time
Printed: Friday, September 17, 2021 10:46:06 Eastern Daylight Time

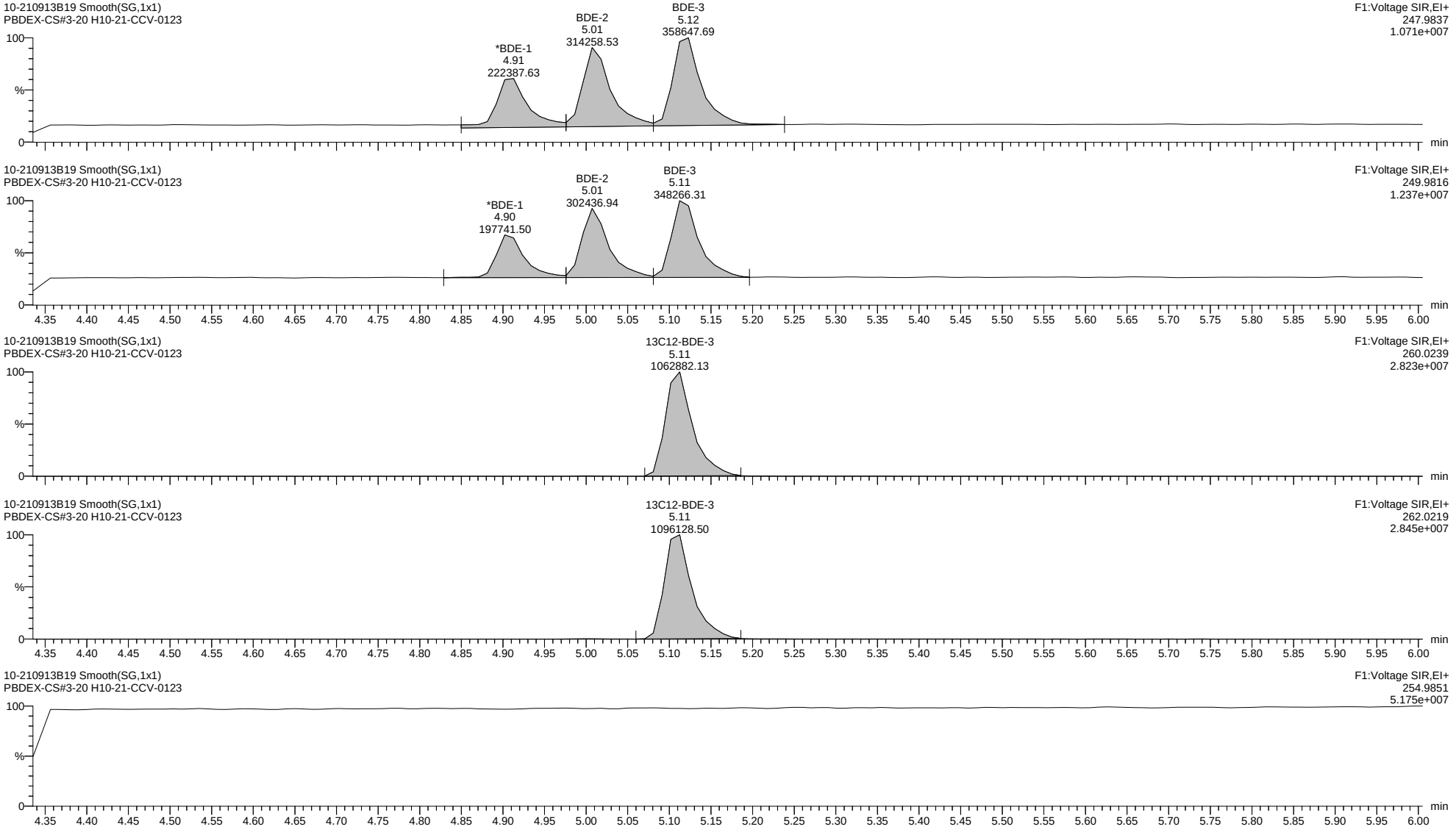
Date	Time	Event	Details	Comments
14-Sep-21	17:03:09	Peak added	Sample:10-210913B14, Compound:DBDPEF10, RT:24.659	EG210914MA
14-Sep-21	17:03:09	Peak added	Sample:10-210913B14, Compound:DBDPEF10, RT:24.659	EG210914MA
14-Sep-21	17:03:31	Pre modification peak	Sample:10-210913B17, Compound:DBDPEF10, RT:24.648	
14-Sep-21	17:03:31	Peak modified	Sample:10-210913B17, Compound:DBDPEF10, RT:24.648	EG210914MB
14-Sep-21	17:04:07	Peak added	Sample:10-210913B28, Compound:DBDPEF10, RT:24.700	EG210914MA
14-Sep-21	17:04:07	Peak added	Sample:10-210913B28, Compound:DBDPEF10, RT:24.659	EG210914MA
14-Sep-21	17:04:20	Dataset Saved	Saved to 'I:\Organics Instrument\HIGHRES GCMS Complete...	
16-Sep-21	17:13:46	Dataset Saved	Saved to 'I:\Organics Instrument\HIGHRES GCMS Complete...	

Dataset: I:\Organics Instrument\HIGHRES GCMS Completed Results Files\HR-10\2021\2109\10-210913B-Q1-PBDE.qld

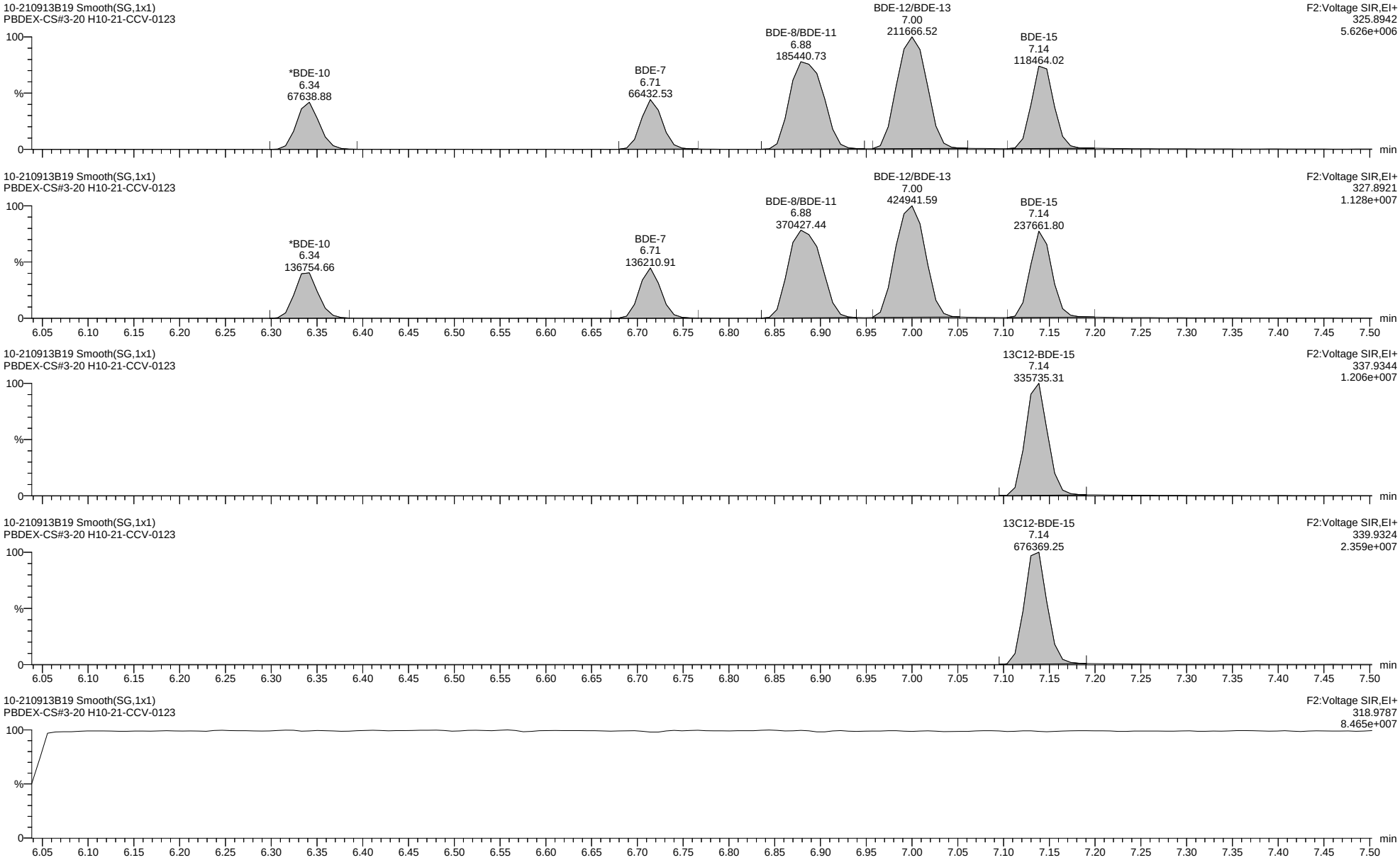
Last Altered: Thursday, September 16, 2021 14:59:12 Eastern Daylight Time
Printed: Friday, September 17, 2021 10:46:06 Eastern Daylight Time

Method: C:\MassLynx\PBDE.PRO\MethDB\PBDEX-DB5-1-210913B.mdb 14 Sep 2021 11:10:04
Calibration: C:\MassLynx\PBDE.PRO\CurveDB\10-210913B-ICAL-PBDE.cdb 14 Sep 2021 11:07:06

Name: 10-210913B19, Date: 14-Sep-2021, Time: 03:40:24, ID: H10-21-CCV-0123, Description: PBDEX-CS#3-20, Vial: Tray1:1



Name: 10-210913B19, Date: 14-Sep-2021, Time: 03:40:24, ID: H10-21-CCV-0123, Description: PBDEX-CS#3-20, Vial: Tray1:1

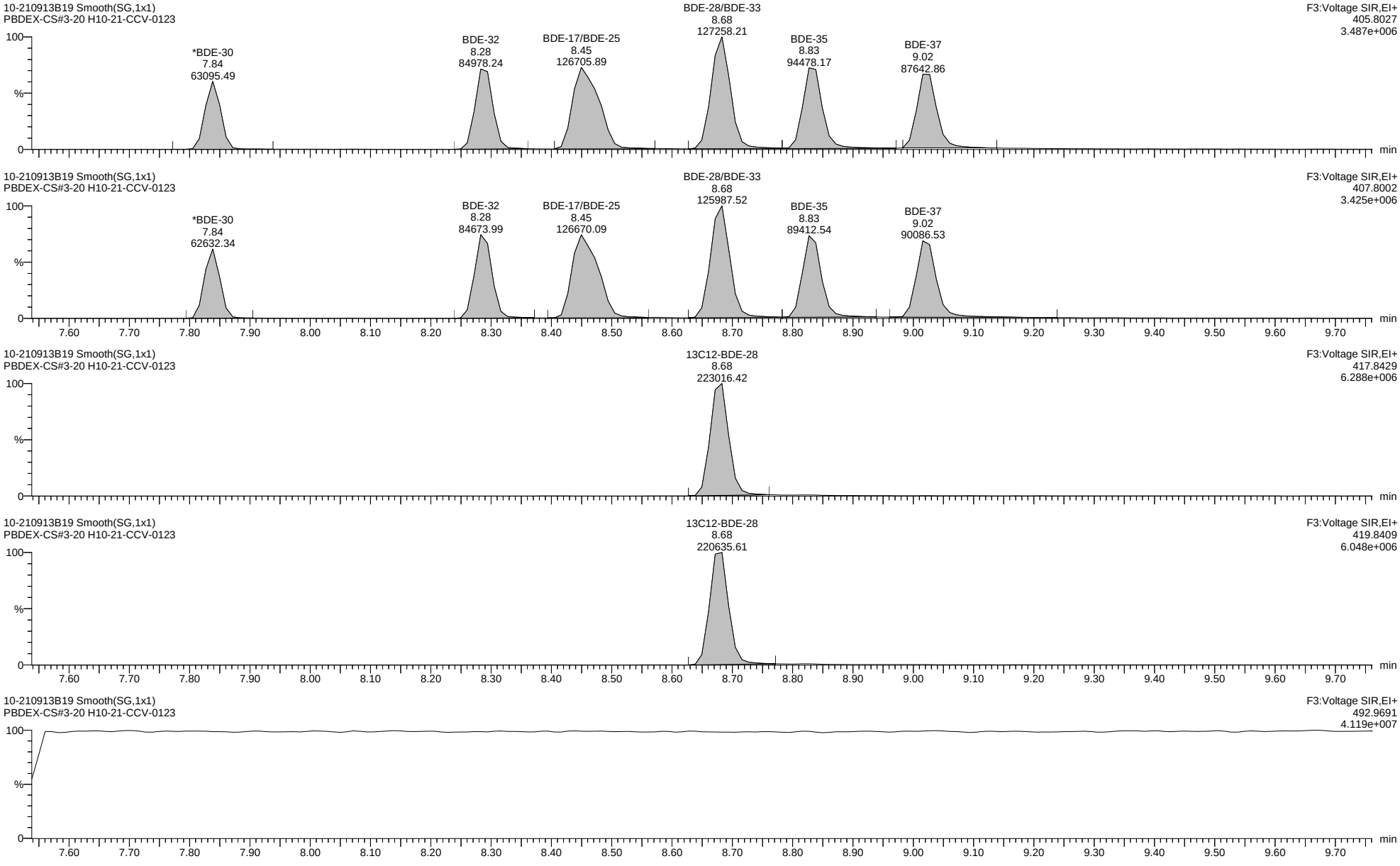


Quantify Sample Template Report **MassLynx MassLynx V4.1 SCN 901**

Dataset: I:\Organics Instrument\HIGHRES GCMS Completed Results Files\HR-10\2021\2109\10-210913B-Q1-PBDE.qld

Last Altered: Thursday, September 16, 2021 14:59:12 Eastern Daylight Time
Printed: Friday, September 17, 2021 10:46:06 Eastern Daylight Time

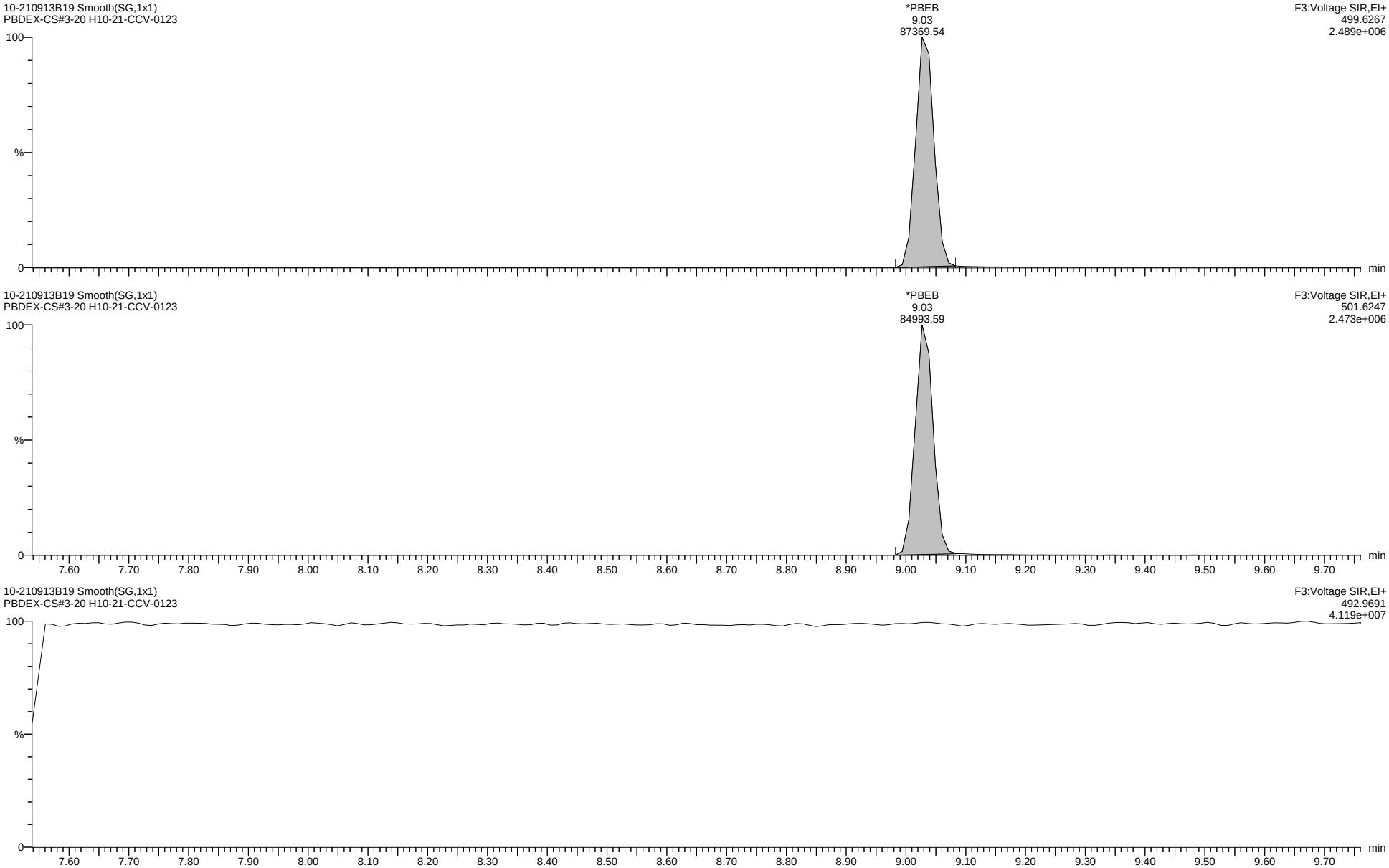
Name: 10-210913B19, Date: 14-Sep-2021, Time: 03:40:24, ID: H10-21-CCV-0123, Description: PBDEX-CS#3-20, Vial: Tray1:1



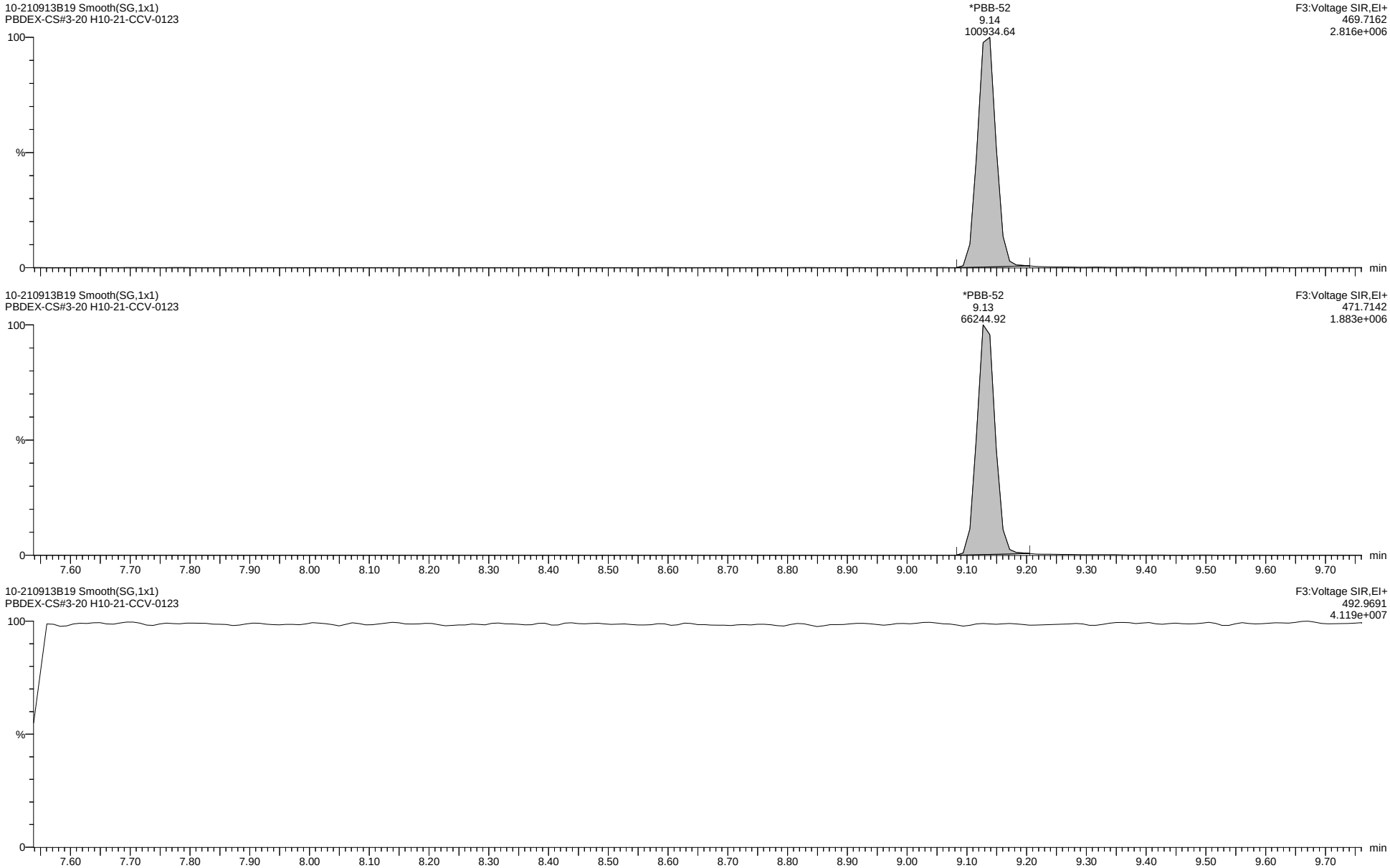
Dataset: I:\Organics Instrument\HIGHRES GCMS Completed Results Files\HR-10\2021\2109\10-210913B-Q1-PBDE.qld

Last Altered: Thursday, September 16, 2021 14:59:12 Eastern Daylight Time
Printed: Friday, September 17, 2021 10:46:06 Eastern Daylight Time

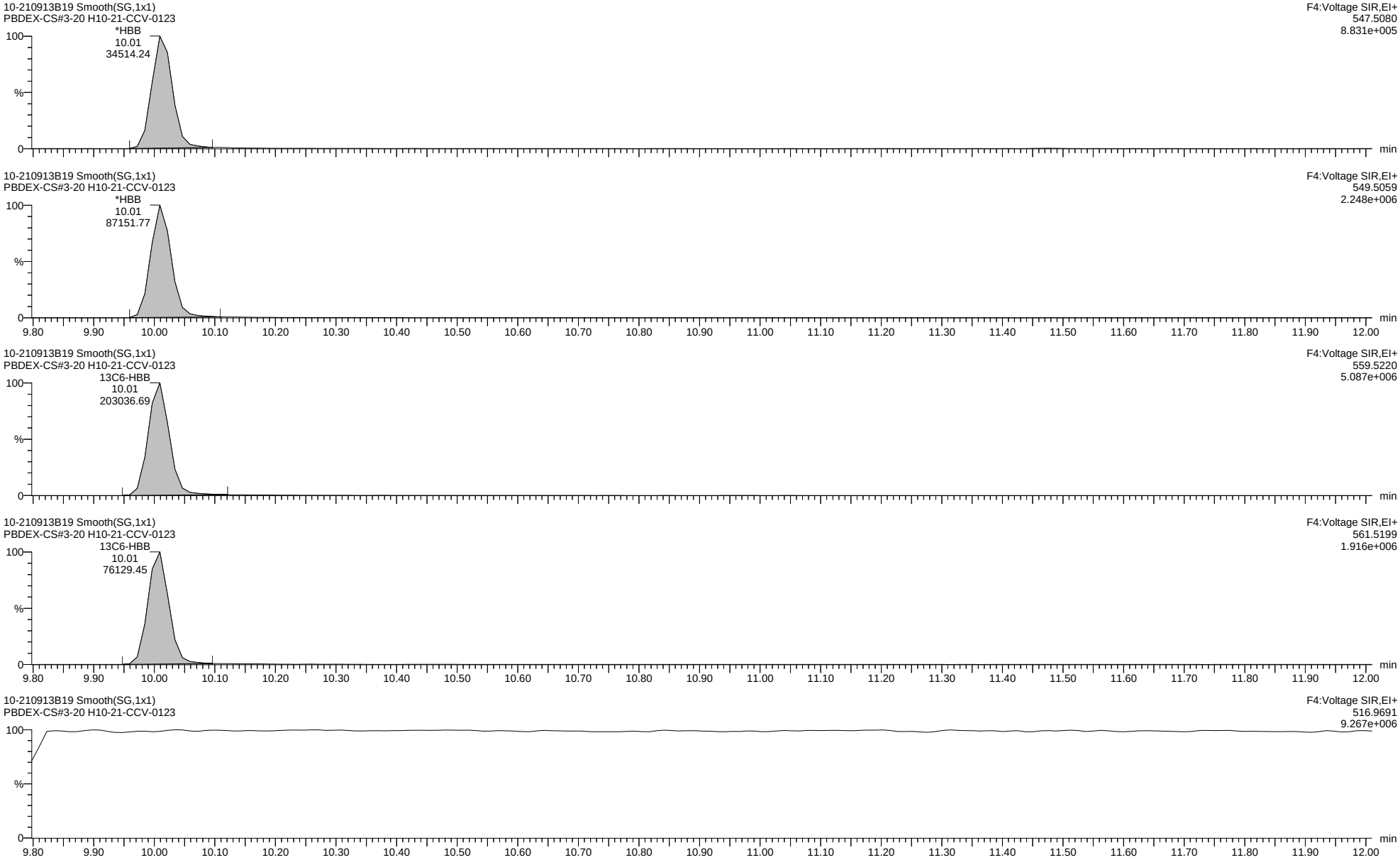
Name: 10-210913B19, Date: 14-Sep-2021, Time: 03:40:24, ID: H10-21-CCV-0123, Description: PBDEX-CS#3-20, Vial: Tray1:1



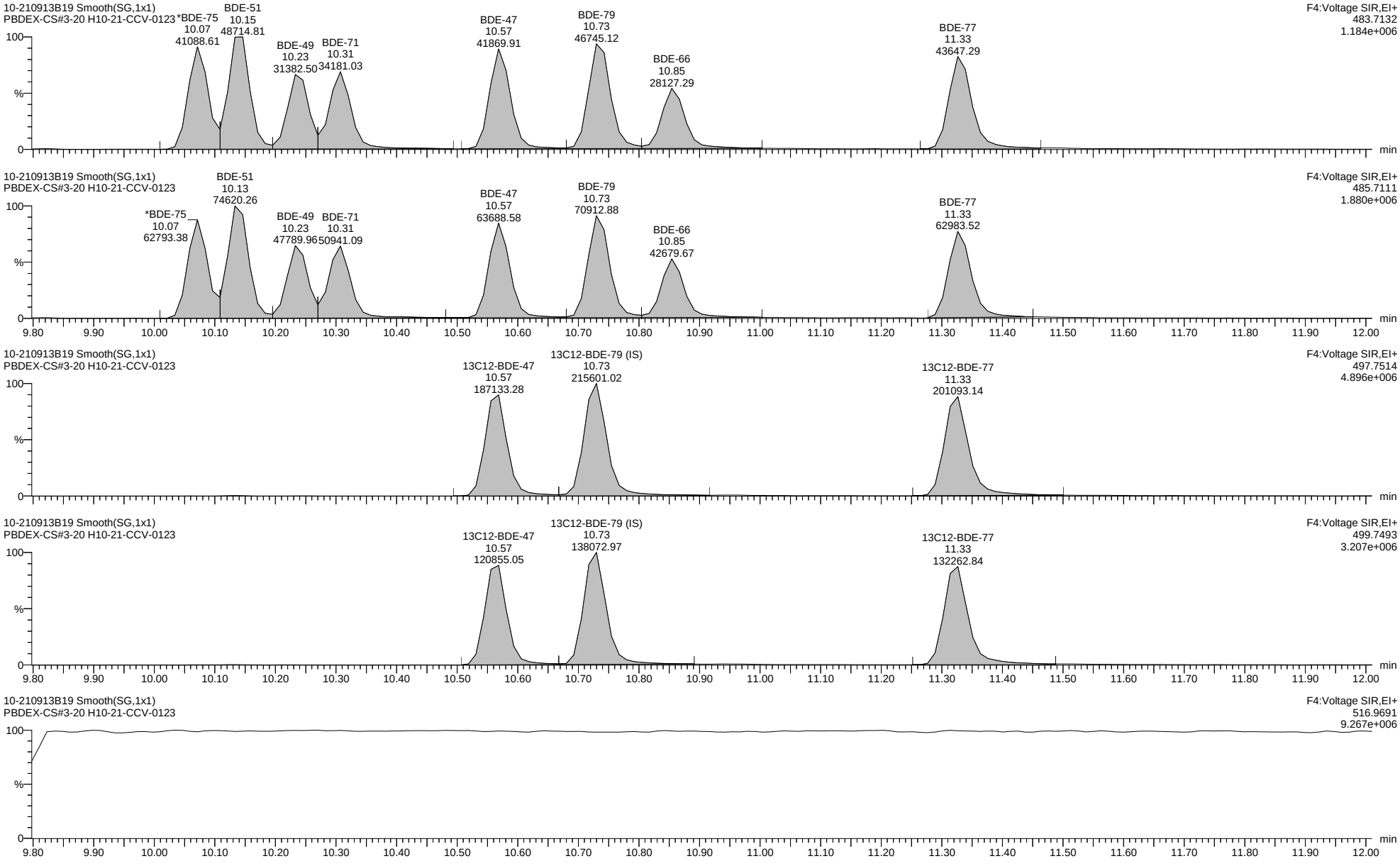
Name: 10-210913B19, Date: 14-Sep-2021, Time: 03:40:24, ID: H10-21-CCV-0123, Description: PBDEX-CS#3-20, Vial: Tray1:1



Name: 10-210913B19, Date: 14-Sep-2021, Time: 03:40:24, ID: H10-21-CCV-0123, Description: PBDEX-CS#3-20, Vial: Tray1:1



Name: 10-210913B19, Date: 14-Sep-2021, Time: 03:40:24, ID: H10-21-CCV-0123, Description: PBDEX-CS#3-20, Vial: Tray1:1

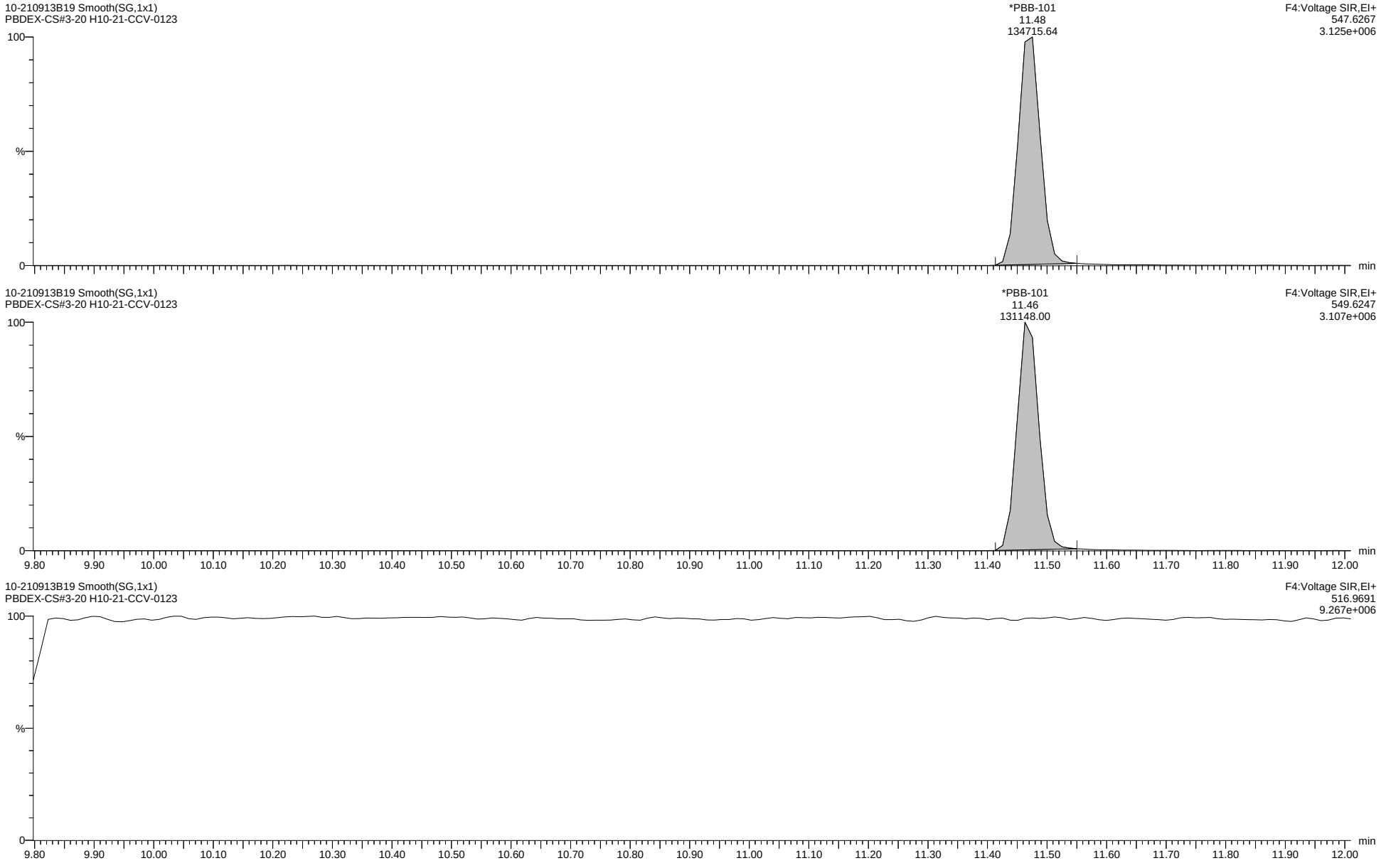


Quantify Sample Template Report **MassLynx MassLynx V4.1 SCN 901**

Dataset: I:\Organics Instrument\HIGHRES GCMS Completed Results Files\HR-10\2021\2109\10-210913B-Q1-PBDE.qld

Last Altered: Thursday, September 16, 2021 14:59:12 Eastern Daylight Time
Printed: Friday, September 17, 2021 10:46:06 Eastern Daylight Time

Name: 10-210913B19, Date: 14-Sep-2021, Time: 03:40:24, ID: H10-21-CCV-0123, Description: PBDEX-CS#3-20, Vial: Tray1:1



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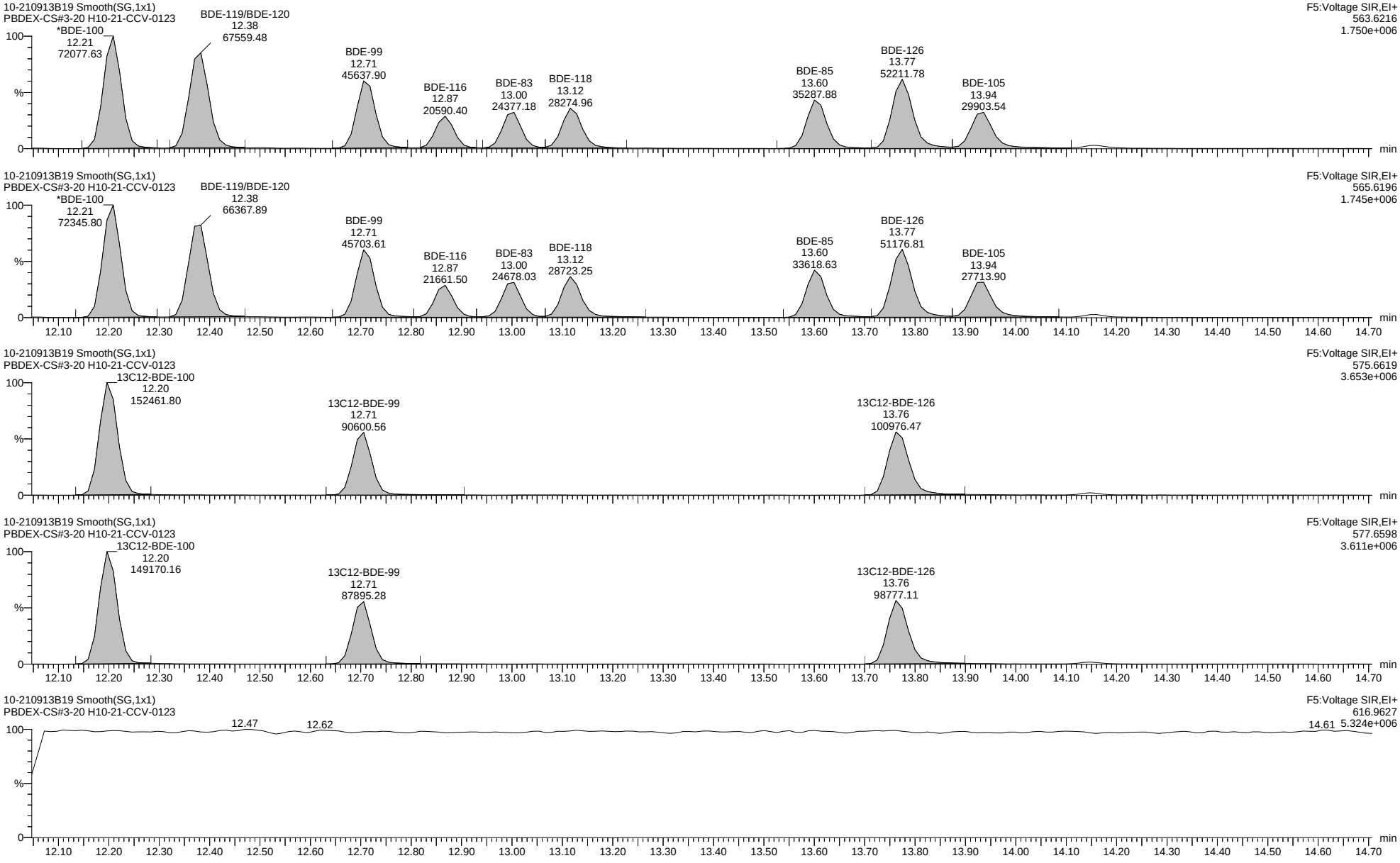

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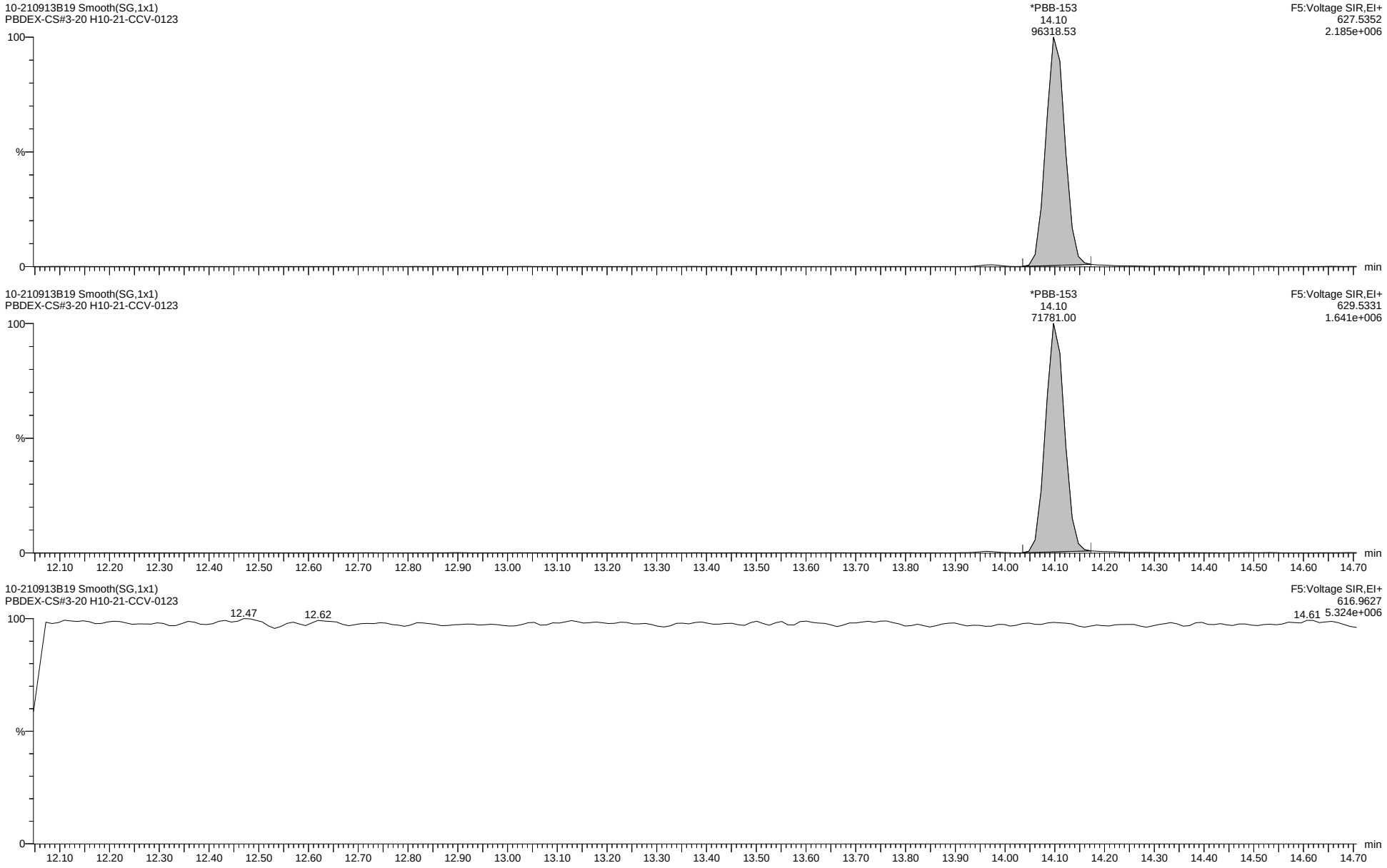
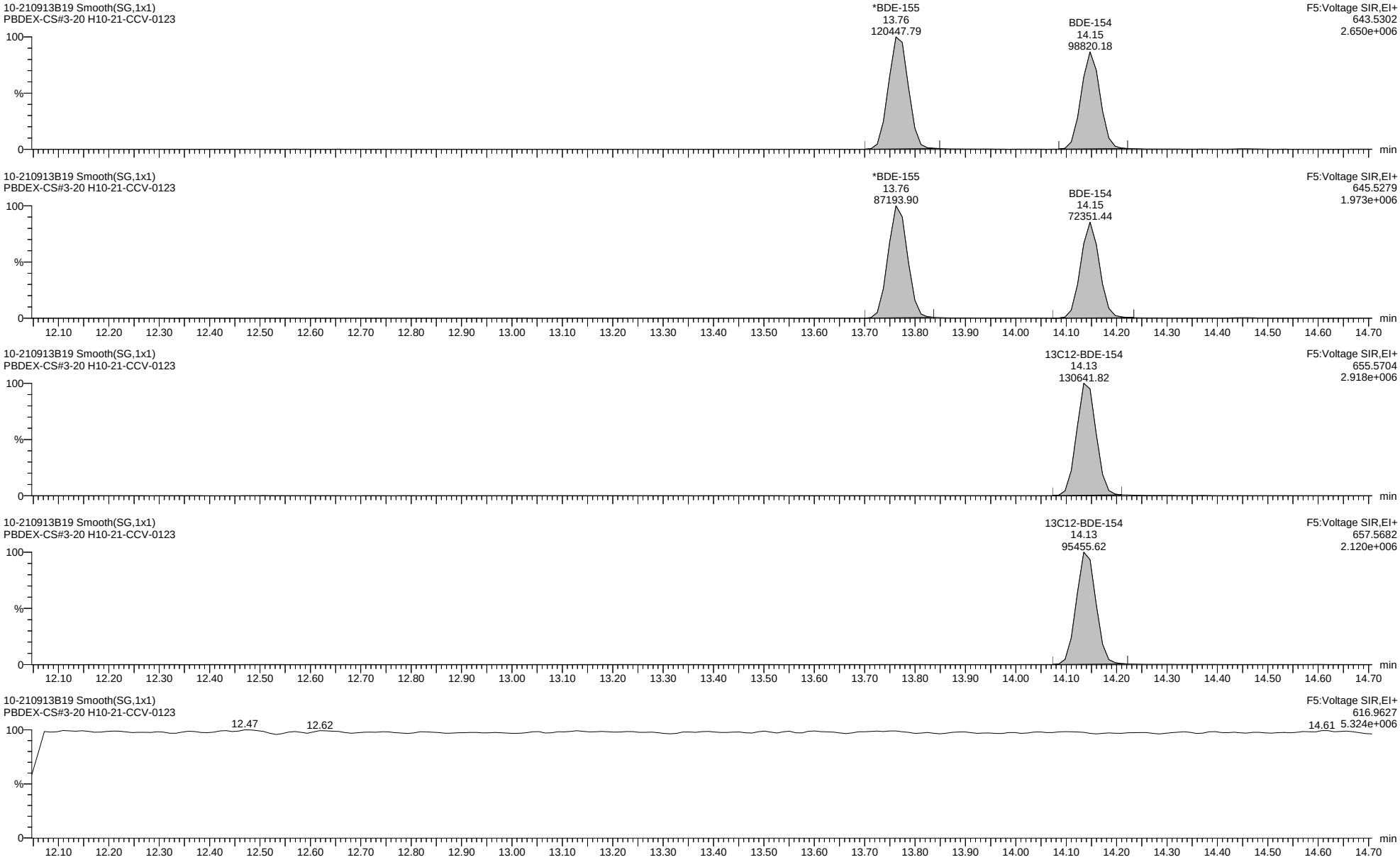


Quantify Sample Template Report **MassLynx MassLynx V4.1 SCN 901**

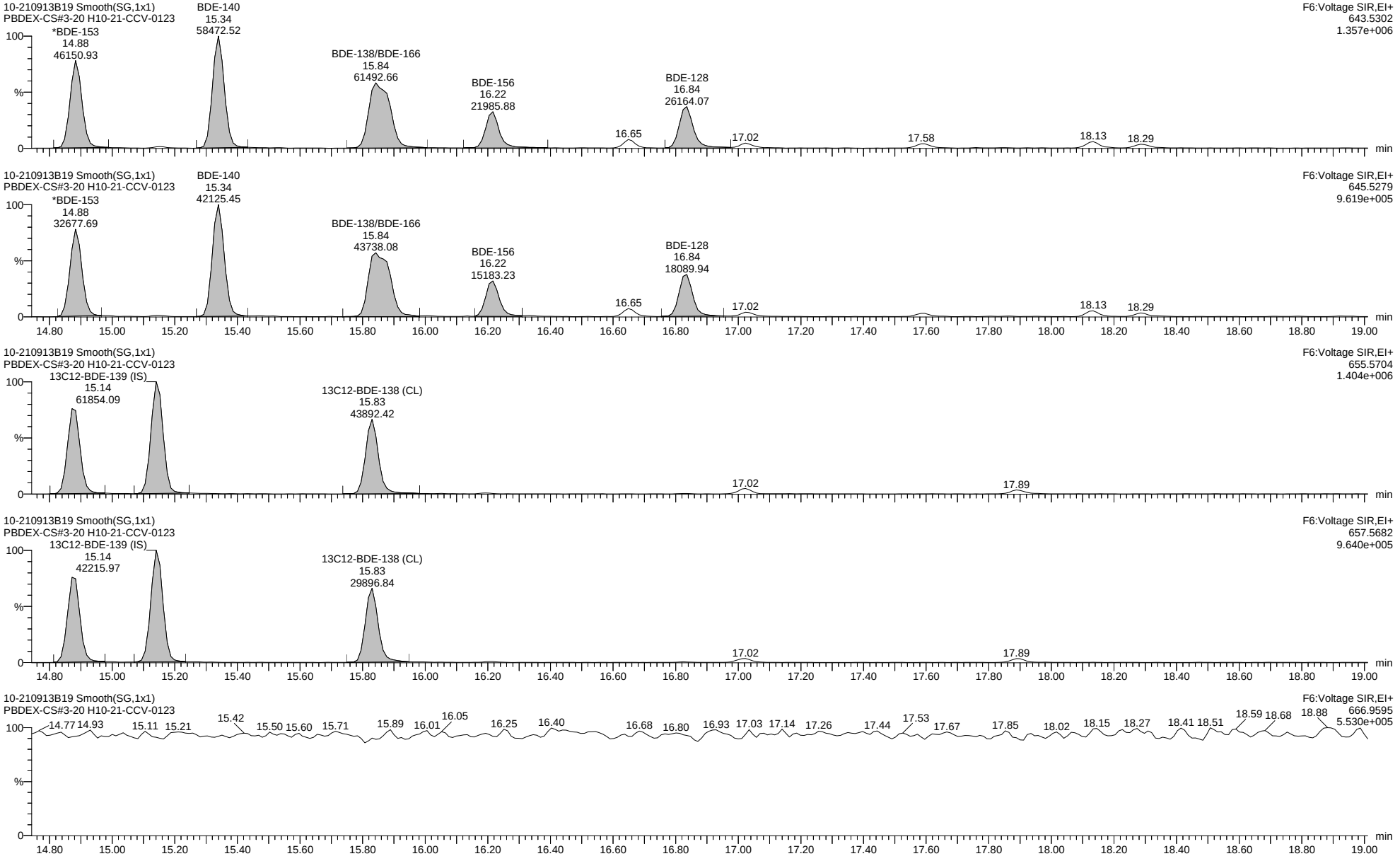
Dataset: I:\Organics Instrument\HIGHRES GCMS Completed Results Files\HR-10\2021\2109\10-210913B-Q1-PBDE.qld

Last Altered: Thursday, September 16, 2021 14:59:12 Eastern Daylight Time
Printed: Friday, September 17, 2021 10:46:06 Eastern Daylight Time

Name: 10-210913B19, Date: 14-Sep-2021, Time: 03:40:24, ID: H10-21-CCV-0123, Description: PBDEX-CS#3-20, Vial: Tray1:1



Name: 10-210913B19, Date: 14-Sep-2021, Time: 03:40:24, ID: H10-21-CCV-0123, Description: PBDEX-CS#3-20, Vial: Tray1:1



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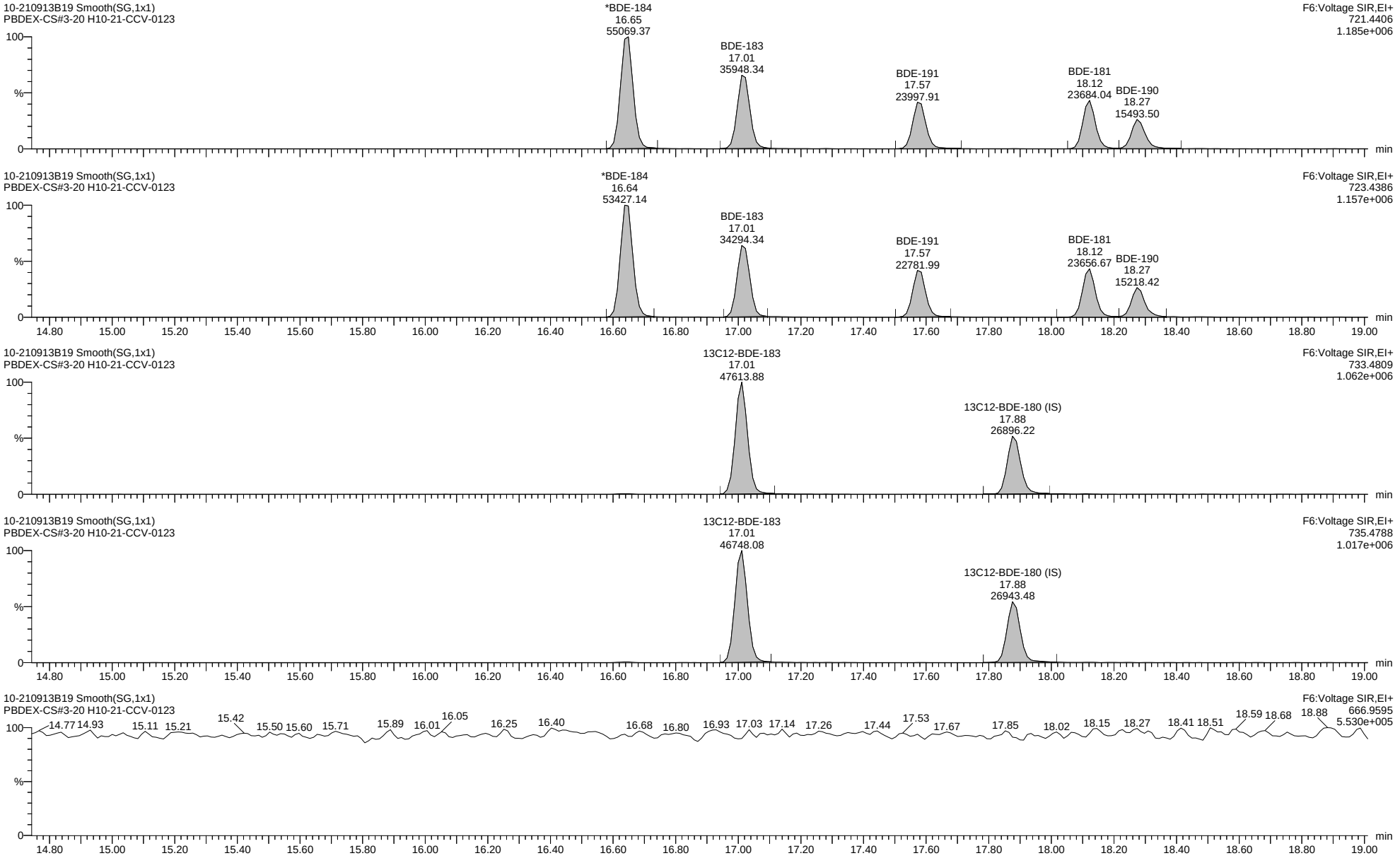
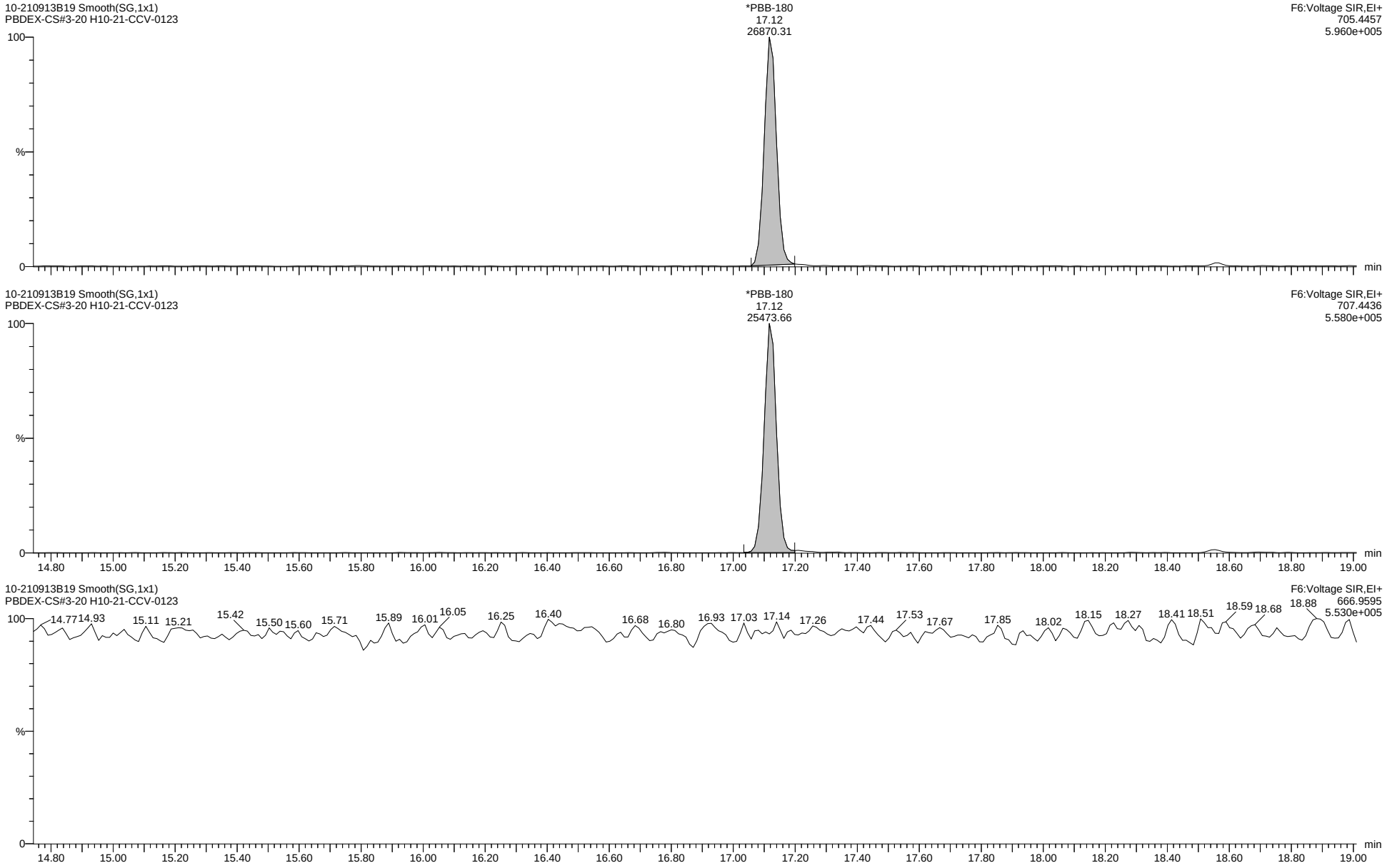


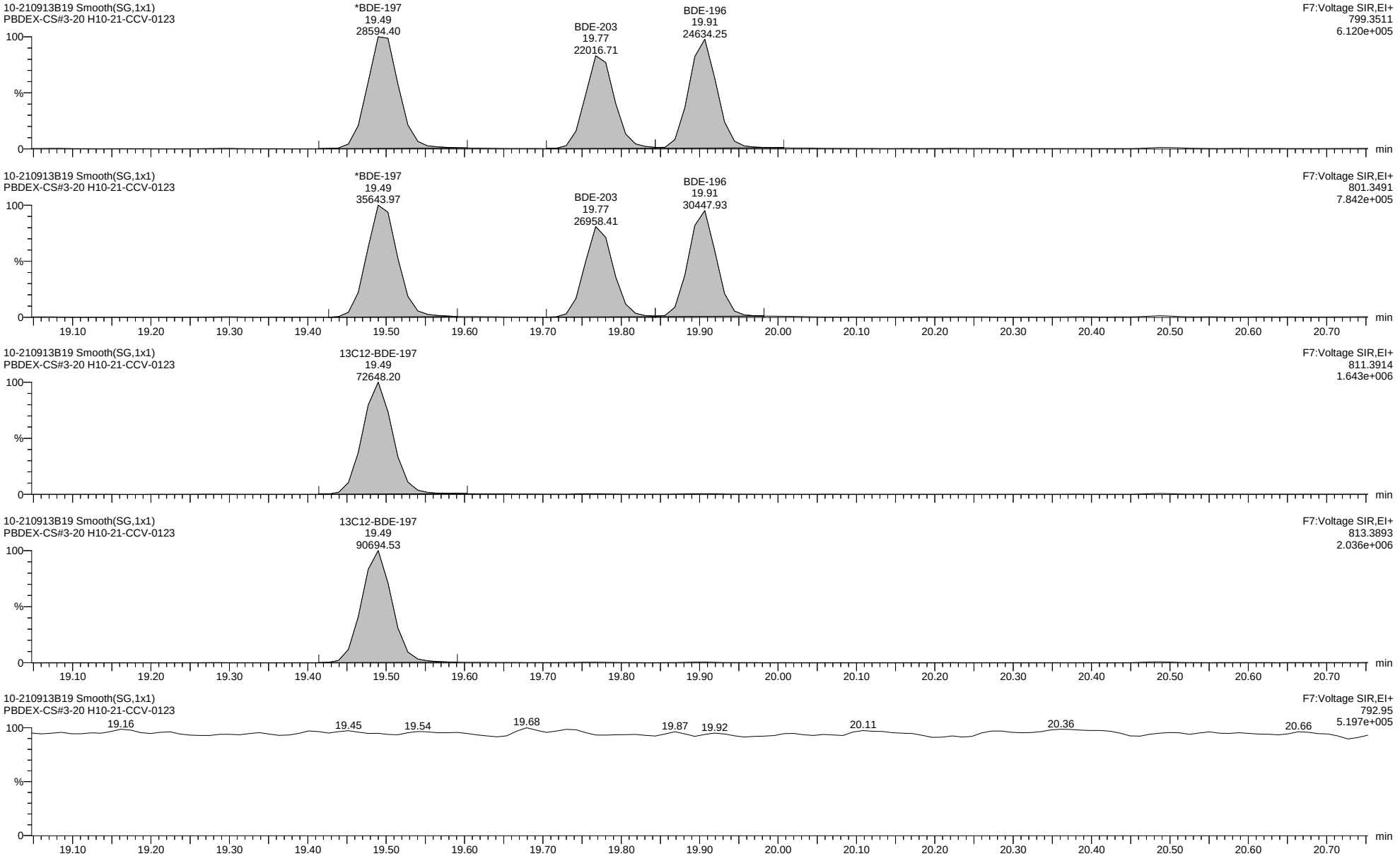
Name: 10-210913B19, Date: 14-Sep-2021, Time: 03:40:24, ID: H10-21-CCV-0123, Description: PBDEX-CS#3-20, Vial: Tray1:1



Dataset: I:\Organics Instrument\HIGHRES GCMS Completed Results Files\HR-10\2021\2109\10-210913B-Q1-PBDE.qld

Last Altered: Thursday, September 16, 2021 14:59:12 Eastern Daylight Time
Printed: Friday, September 17, 2021 10:46:06 Eastern Daylight Time

Name: 10-210913B19, Date: 14-Sep-2021, Time: 03:40:24, ID: H10-21-CCV-0123, Description: PBDEX-CS#3-20, Vial: Tray1:1



Dataset: I:\Organics Instrument\HIGHRES GCMS Completed Results Files\HR-10\2021\2109\10-210913B-Q1-PBDE.qld

Last Altered: Thursday, September 16, 2021 14:59:12 Eastern Daylight Time
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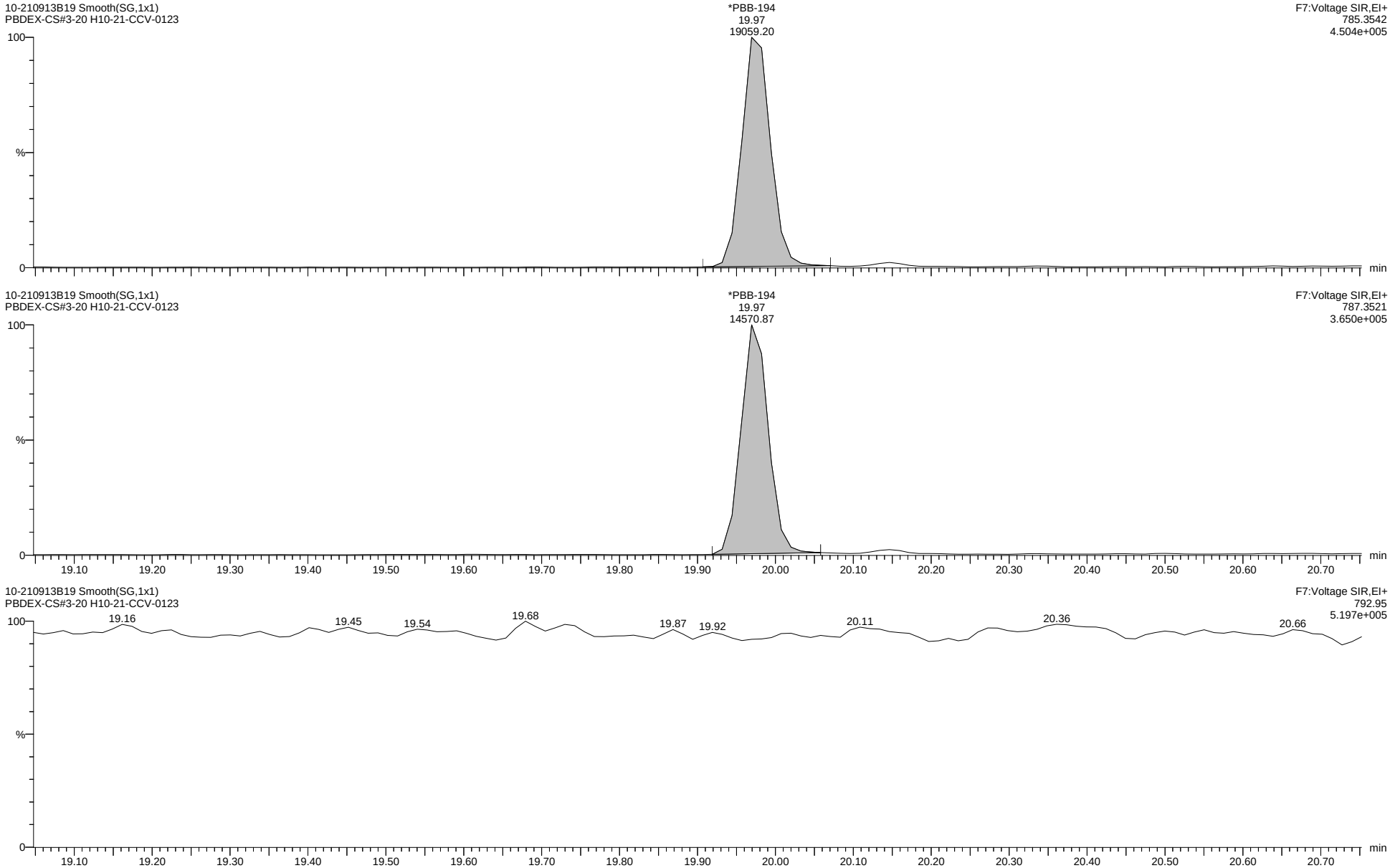
Name: 10-210913B19, Date: 14-Sep-2021, Time: 03:40:24, ID: H10-21-CCV-0123, Description: PBDEX-CS#3-20, Vial: Tray1:1



Dataset: I:\Organics Instrument\HIGHRES GCMS Completed Results Files\HR-10\2021\2109\10-210913B-Q1-PBDE.qld

Last Altered: Thursday, September 16, 2021 14:59:12 Eastern Daylight Time
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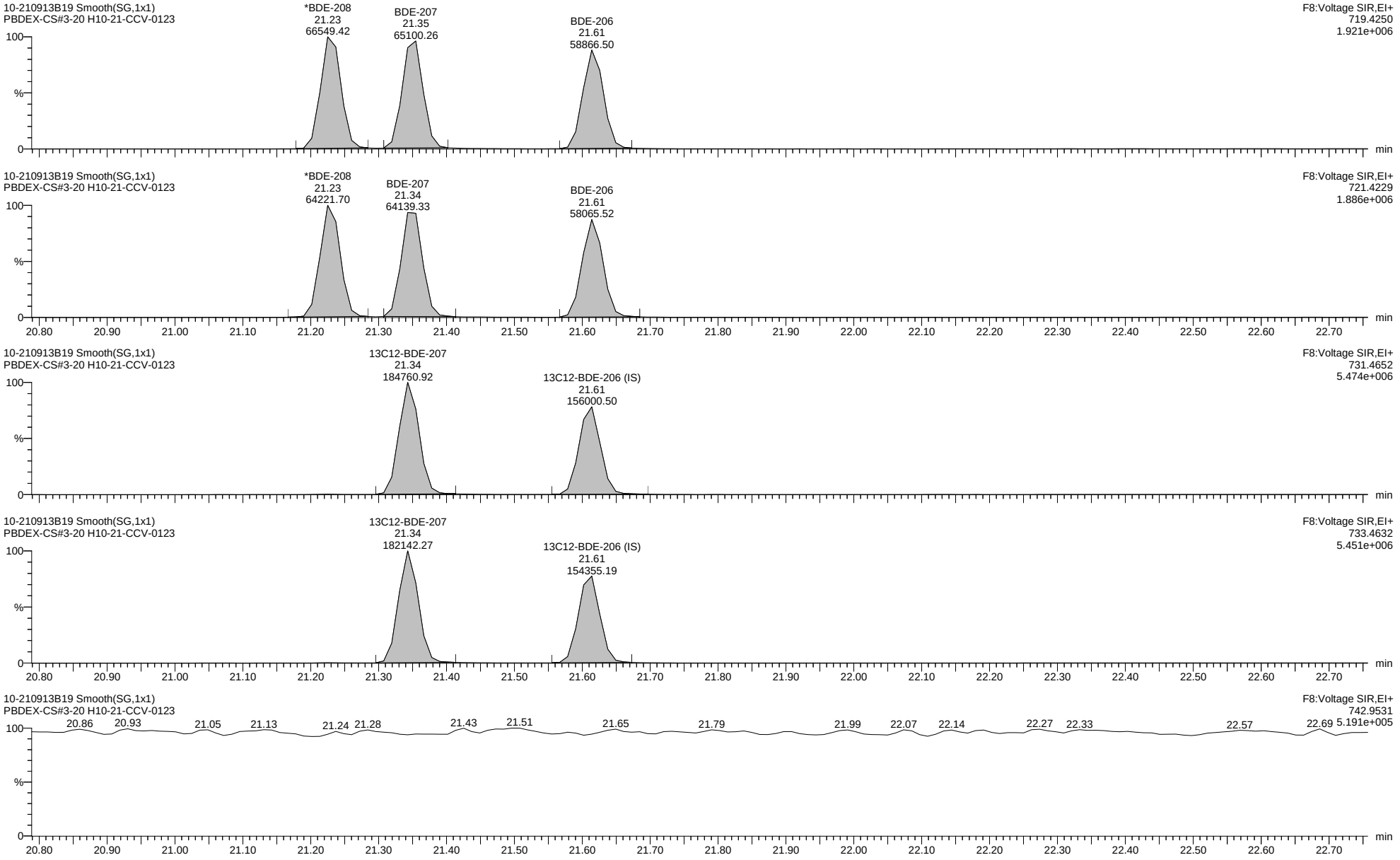
Name: 10-210913B19, Date: 14-Sep-2021, Time: 03:40:24, ID: H10-21-CCV-0123, Description: PBDEX-CS#3-20, Vial: Tray1:1



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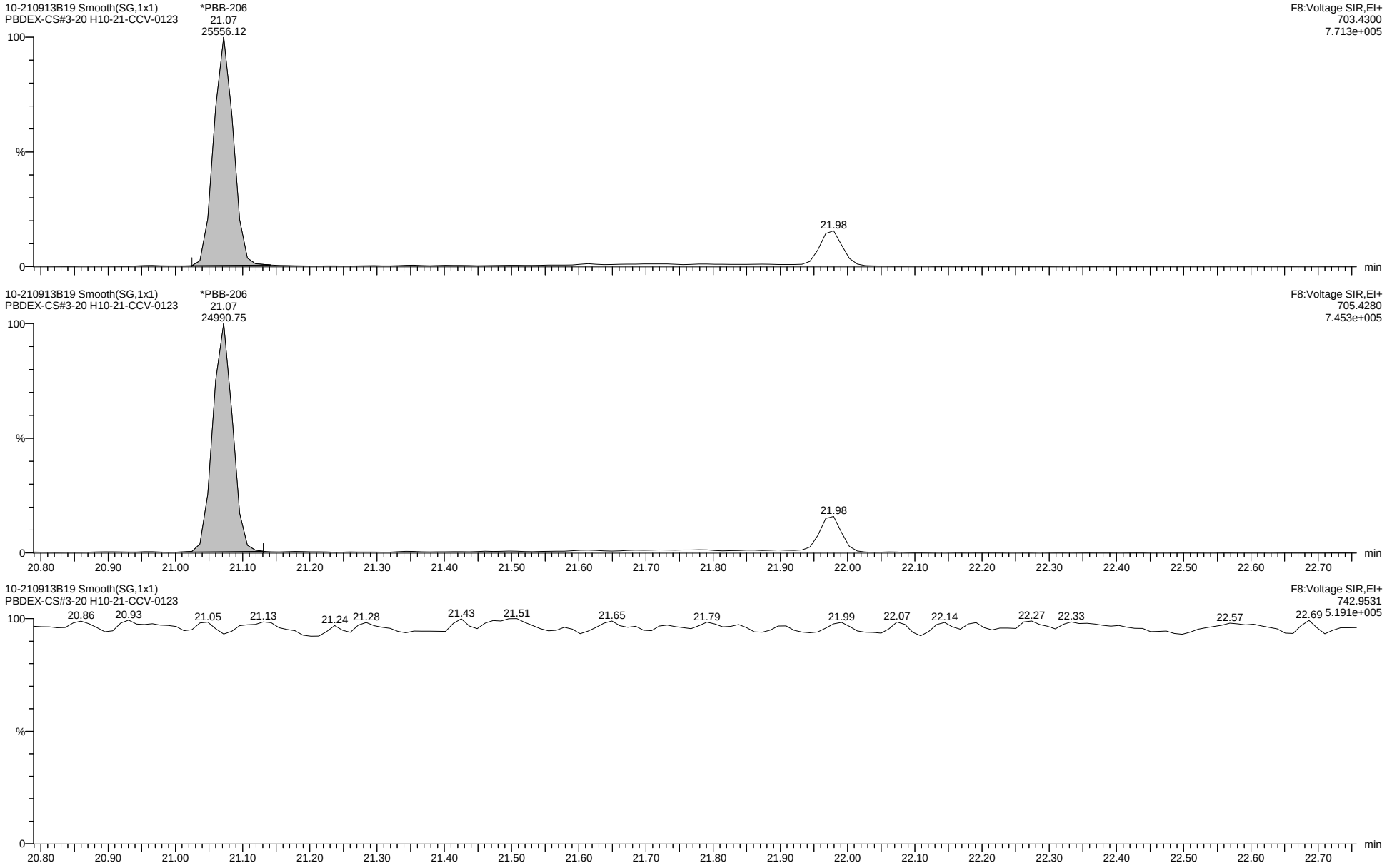
Last Altered: Thursday, September 16, 2021 14:59:12 Eastern Daylight Time
Printed: Friday, September 17, 2021 10:46:06 Eastern Daylight Time

Name: 10-210913B19, Date: 14-Sep-2021, Time: 03:40:24, ID: H10-21-CCV-0123, Description: PBDEX-CS#3-20, Vial: Tray1:1

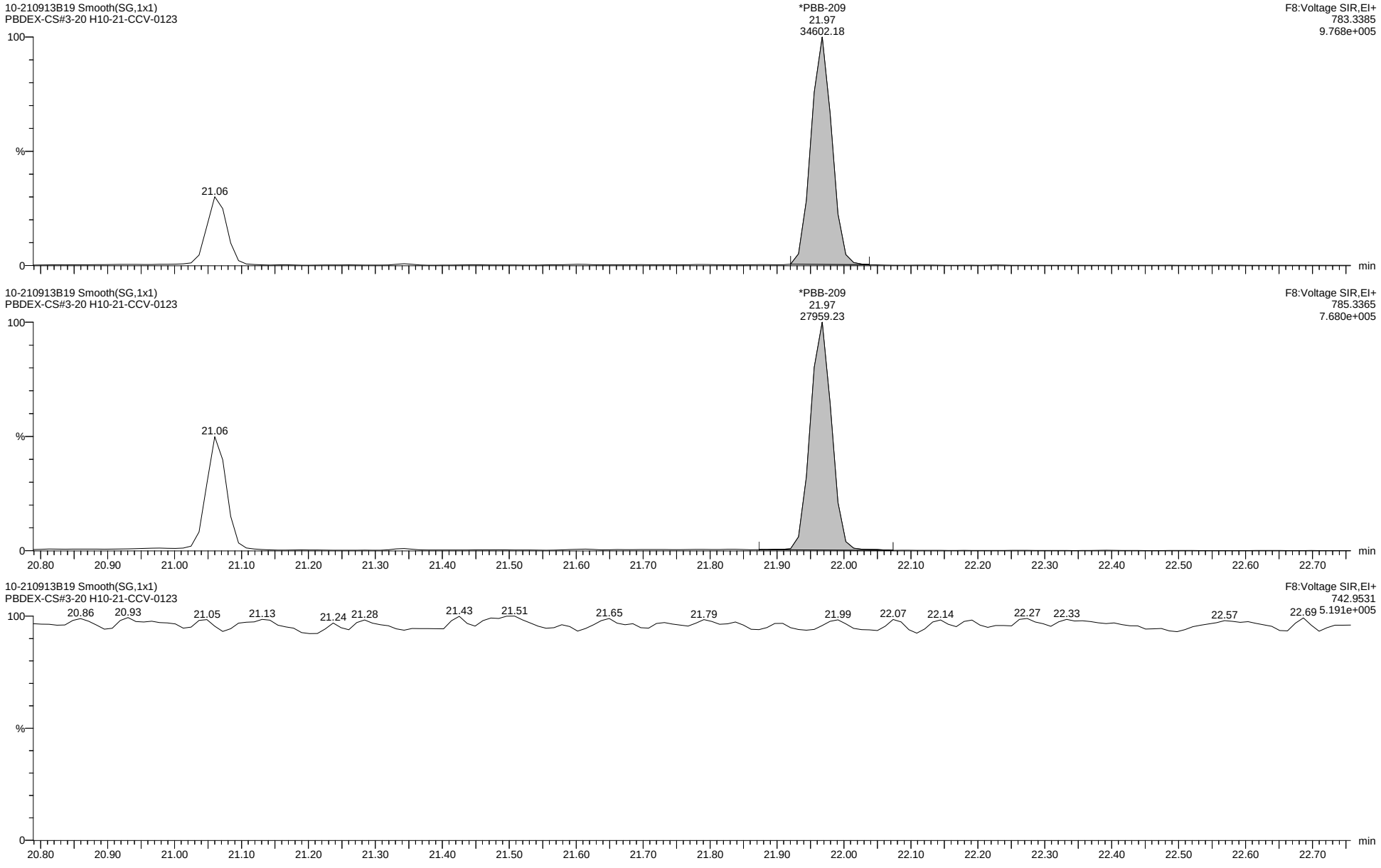


Quantify Sample Template Report **MassLynx MassLynx V4.1 SCN 901**

Dataset: I:\Organics Instrument\HIGHRES GCMS Completed Results Files\HR-10\2021\2109\10-210913B-Q1-PBDE.qld

Last Altered: Thursday, September 16, 2021 14:59:12 Eastern Daylight Time
Printed: Friday, September 17, 2021 10:46:06 Eastern Daylight Time

Name: 10-210913B19, Date: 14-Sep-2021, Time: 03:40:24, ID: H10-21-CCV-0123, Description: PBDEX-CS#3-20, Vial: Tray1:1

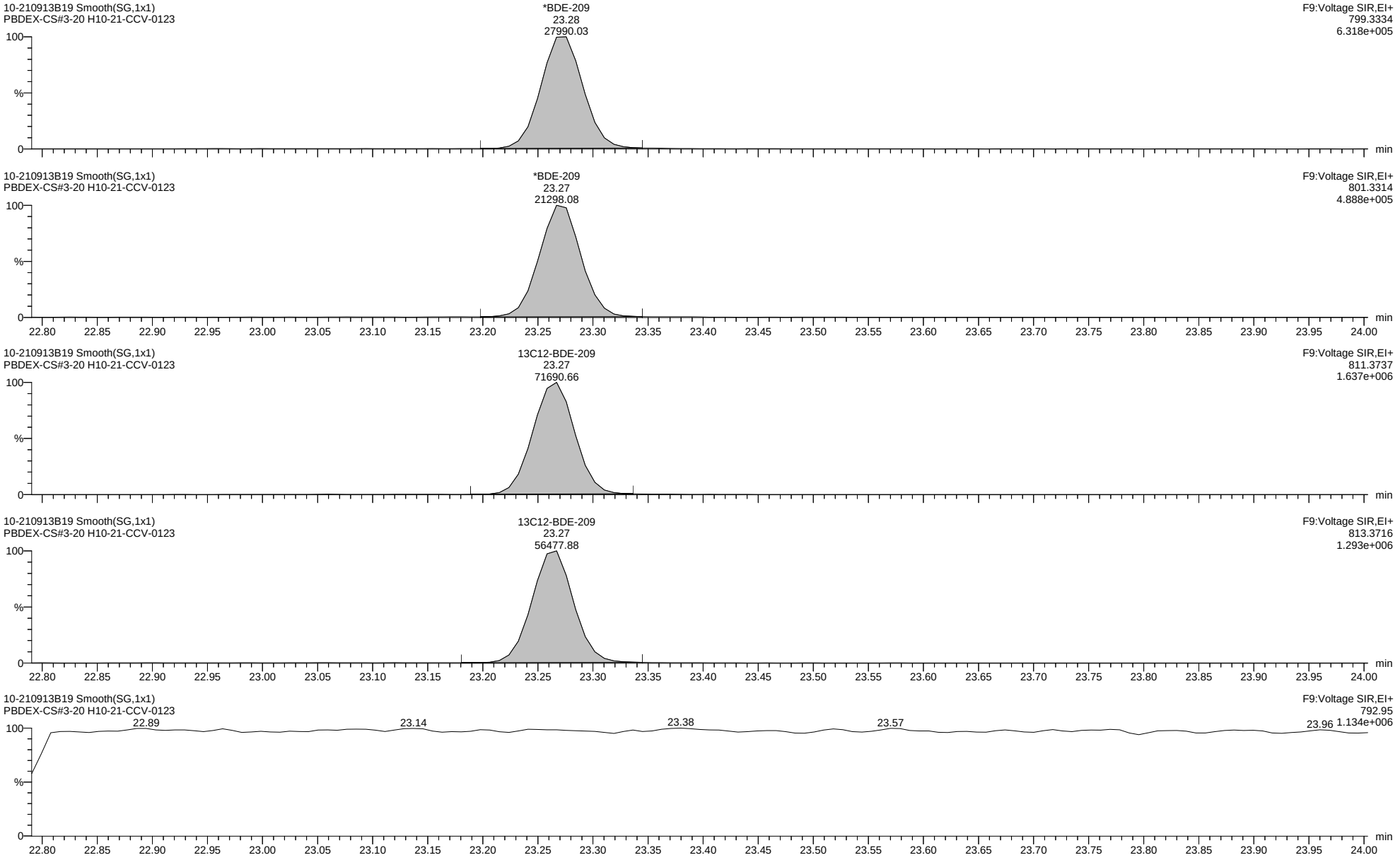


Quantify Sample Template Report **MassLynx MassLynx V4.1 SCN 901**

Dataset: I:\Organics Instrument\HIGHRES GCMS Completed Results Files\HR-10\2021\2109\10-210913B-Q1-PBDE.qld

Last Altered: Thursday, September 16, 2021 14:59:12 Eastern Daylight Time
Printed: Friday, September 17, 2021 10:46:06 Eastern Daylight Time

Name: 10-210913B19, Date: 14-Sep-2021, Time: 03:40:24, ID: H10-21-CCV-0123, Description: PBDEX-CS#3-20, Vial: Tray1:1



Dataset: I:\Organics Instrument\HIGHRES GCMS Completed Results Files\HR-10\2021\2109\10-210913B-Q1-PBDE.qld

Last Altered: Thursday, September 16, 2021 14:59:12 Eastern Daylight Time
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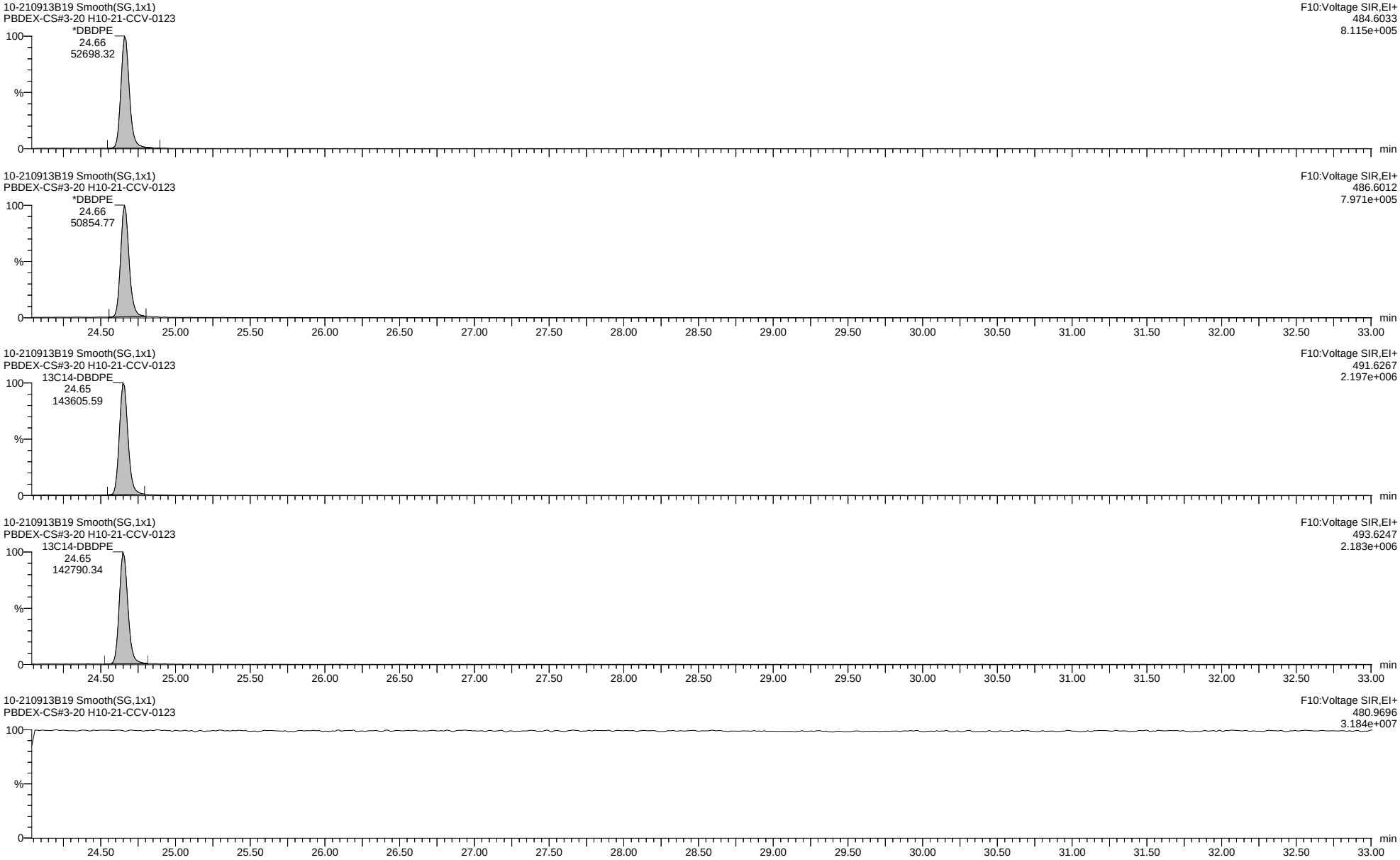
Name: 10-210913B19, Date: 14-Sep-2021, Time: 03:40:24, ID: H10-21-CCV-0123, Description: PBDEX-CS#3-20, Vial: Tray1:1



Quantify Sample Summary Report **MassLynx MassLynx V4.1 SCN 901**

Dataset: I:\Organics Instrument\HIGHRES GCMS Completed Results Files\HR-10\2021\2109\10-210913B-Q2-PBDE.qld

Last Altered: Tuesday, September 14, 2021 17:08:57 Eastern Daylight Time
Printed: Friday, September 17, 2021 10:47:47 Eastern Daylight Time

Method: C:\MassLynx\PBDE.PRO\MethDB\PBDEX-DB5-1-210913B.mdb 14 Sep 2021 11:10:04
Calibration: C:\MassLynx\PBDE.PRO\CurveDB\10-210913B-ICAL-PBDE.cdb 14 Sep 2021 11:07:06

Name: 10-210913B33, Date: 14-Sep-2021, Time: 14:56:16, ID: H10-21-RS2-0123, Description: PBDEX-RS#2-003, Vial: Tray1:6

	Target Analyte	#Hom	Total Area	Ion1 Area	Ion2 Area	Ra	Ra Fail=YES	RT	RRT	RT LCL	RT UCL	Conc.	%Rec	Mod.Comment	Noise 1	Noise 2
1	*BDE-1		1361972.0...	683736	678236	1.01	NO	4.91	0.96	4.88	4.95	54.838674			28606	47497
2	BDE-2		1985062.4...	967078	1017985	0.95	NO	5.02	0.98	4.98	5.05	54.397933			28606	47497
3	BDE-3		2421205.3...	1203257	1217949	0.99	NO	5.12	1.00	5.09	5.16	55.211155			28606	47497
4	*BDE-10		813602.594	270917	542685	0.50	NO	6.34	0.89	6.31	6.38	58.308641			454	998
5	BDE-7		911154.594	304314	606840	0.50	NO	6.71	0.94	6.68	6.75	64.867917			454	998
6	BDE-8/BDE-11		2341.444	777	1565	0.50	NO	6.90	0.97	6.86	6.93	0.11623109			454	998
7	BDE-12/BDE-13		813.943	251	563	0.45	NO	6.98	0.98	6.95	7.02	0.034962385			454	998
8	BDE-15		1602254.3...	534521	1067733	0.50	NO	7.14	1.00	7.11	7.17	58.029537			454	998
9	*BDE-30		584205.750	293616	290590	1.01	NO	7.84	0.90	7.80	7.87	58.501262			1822	1759
10	BDE-32		1445.560	698	748	0.93	NO	8.28	0.95	8.25	8.32	0.10575268			1822	1759
11	BDE-17/BDE-25		776649.781	394434	382216	1.03	NO	8.45	0.97	8.42	8.48	74.073821			1822	1759
12	BDE-28/BDE-33		842808.251	425562	417247	1.02	NO	8.68	1.00	8.65	8.72	77.210270			1822	1759
13	BDE-35														1822	1759
14	BDE-37		622.187	332	290	1.14	NO	9.02	1.04	8.98	9.05	0.041268904			1822	1759
15	*PBEB		792915.594	405335	387580	1.05	NO	9.03	0.90	8.99	9.06	56.725796			495	515
16	*PBB-52														691	728
17	*HBB		627162.719	180025	447138	0.40	NO	10.01	1.00	9.98	10.04	53.550361			598	853
18	*BDE-75														3955	935
19	BDE-51		1353.719	564	790	0.71	NO	10.13	0.96	10.10	10.17	0.10728727			3955	935
20	BDE-49		886174.188	355684	530491	0.67	NO	10.23	0.97	10.20	10.27	110.24669			3955	935
21	BDE-71		973691.406	391004	582688	0.67	NO	10.31	0.98	10.27	10.34	117.88852			3955	935
22	BDE-47		1331825.3...	533495	798330	0.67	NO	10.57	1.00	10.53	10.60	119.44660			3955	935
23	BDE-79														3955	935
24	BDE-66		769242.562	310045	459197	0.68	NO	10.85	1.03	10.82	10.89	104.19433			3955	935
25	BDE-77		1329354.2...	533921	795433	0.67	NO	11.33	1.00	11.29	11.36	116.86970			3955	935
26	*PBB-101		15176.699	7422	7754	0.96	NO	11.48	1.01	11.44	11.51	1.0158249			507	515
27	*BDE-100		1221315.5...	611781	609535	1.00	NO	12.21	1.00	12.18	12.24	121.10843			1816	2354
28	BDE-119/BDE-120		744462.594	369034	375429	0.98	NO	12.37	1.01	12.34	12.40	150.56130			1816	2354
29	BDE-99		826321.688	416107	410214	1.01	NO	12.71	1.00	12.67	12.74	120.68325			1816	2354
30	BDE-116														1816	2354
31	BDE-83														1816	2354
32	BDE-118		2951.099	1285	1667	0.77	YES	13.09	1.03	13.06	13.12	0.71363787			1816	2354
33	BDE-85		638987.281	321366	317621	1.01	NO	13.60	0.99	13.57	13.63	133.75856			1816	2354
34	BDE-126		948183.344	474874	473309	1.00	NO	13.77	1.00	13.74	13.81	123.30051			1816	2354

Quantify Sample Summary Report **MassLynx MassLynx V4.1 SCN 901**

Dataset: I:\Organics Instrument\HIGHRES GCMS Completed Results Files\HR-10\2021\2109\10-210913B-Q2-PBDE.qld

Last Altered: Tuesday, September 14, 2021 17:08:57 Eastern Daylight Time
Printed: Friday, September 17, 2021 10:47:47 Eastern Daylight Time

Name: 10-210913B33, Date: 14-Sep-2021, Time: 14:56:16, ID: H10-21-RS2-0123, Description: PBDEX-RS#2-003, Vial: Tray1:6

	Target Analyte	#Hom	Total Area	Ion1 Area	Ion2 Area	Ra	Ra Fail=YES	RT	RRT	RT LCL	RT UCL	Conc.	%Rec	Mod.Comment	Noise 1	Noise 2
35	BDE-105														1816	2354
36	*PBB-153		1019858.0...	588272	431586	1.36	NO	14.10	1.00	14.06	14.13	108.28134			905	774
37	*BDE-155		3608.256	2128	1481	1.44	NO	13.77	0.97	13.74	13.81	0.30879966			656	437
38	BDE-154		1079268.0...	621679	457589	1.36	NO	14.15	1.00	14.11	14.18	112.33988			656	437
39	*BDE-153		506698.250	297330	209369	1.42	NO	14.88	1.00	14.85	14.92	106.91928			2688	3276
40	BDE-140		602848.859	351600	251249	1.40	NO	15.34	1.01	15.31	15.37	114.38233			2688	3276
41	BDE-138/BDE-166		422090.141	246710	175380	1.41	NO	15.84	1.06	15.81	15.88	145.26920			2688	3276
42	BDE-156		889651.219	523162	366489	1.43	NO	16.22	1.09	16.18	16.25	473.65527			2688	3276
43	BDE-128		963.560	693	271	2.56	YES	16.81	0.99	16.78	16.85	0.44885011			2688	3276
44	*BDE-184		1221535.4...	614328	607207	1.01	NO	16.65	0.98	16.62	16.68	216.41409			849	1084
45	BDE-183		1042431.7...	521247	521185	1.00	NO	17.02	1.00	16.99	17.06	274.50029			849	1084
46	BDE-191		552560.531	277996	274565	1.01	NO	17.58	1.03	17.55	17.62	235.47306			849	1084
47	BDE-181														849	1084
48	BDE-190														849	1084
49	*PBB-180														594	224
50	*BDE-197		1458988.3...	653761	805228	0.81	NO	19.50	1.00	19.47	19.54	390.37872			1925	1373
51	BDE-203		508513.782	228427	280087	0.82	NO	19.78	1.01	19.75	19.81	186.99948			1925	1373
52	BDE-196		600652.344	269454	331198	0.81	NO	19.91	1.02	19.87	19.94	192.56756			1925	1373
53	*PBB-194														196	231
54	*BDE-208		1760442.3...	893245	867197	1.03	NO	21.24	0.99	21.20	21.27	553.37439			2508	2545
55	BDE-207		2266283.7...	1138073	1128211	1.01	NO	21.35	1.00	21.32	21.39	614.91318			2508	2545
56	BDE-206		1709625.5...	861654	847971	1.02	NO	21.63	1.01	21.59	21.66	613.84643			2508	2545
57	*PBB-206														220	508
58	*PBB-209														269	201
59	*BDE-209		557452.251	318498	238955	1.33	NO	23.28	1.00	23.25	23.32	581.14449			1325	822
60	*DBDPE		834020.532	430635	403385	1.07	NO	24.68	1.00	24.65	24.71	1103.0891			662	813
61	13C12-BDE-3		2753014.3...	1375664	1377351	1.00	NO	5.11	0.48	5.08	5.15	37.261005	74.5		1418	2728
62	13C12-BDE-15		1628480.5...	542454	1086026	0.50	NO	7.14	0.67	7.11	7.17	40.404069	80.8		2806	5651
63	13C12-BDE-28		816294.844	409001	407294	1.00	NO	8.68	0.81	8.65	8.72	44.479484	89.0		749	962
64	13C6-HBB		559123.282	404887	154236	2.63	NO	10.01	0.93	9.98	10.04	42.325430	84.7		1417	1149
65	13C12-BDE-47		664269.563	402809	261461	1.54	NO	10.57	0.98	10.53	10.60	52.184618	104.4		3515	1983
66	13C12-BDE-77		718360.407	436158	282202	1.55	NO	11.33	1.06	11.29	11.36	53.562358	107.1		3515	1983
67	13C12-BDE-100		661004.282	331300	329705	1.00	NO	12.20	0.81	12.16	12.23	40.733575	81.5		1128	1025
68	13C12-BDE-99		415532.438	206990	208543	0.99	NO	12.71	0.84	12.67	12.74	43.671025	87.3		1128	1025
69	13C12-BDE-126		490945.719	249855	241091	1.04	NO	13.77	0.91	13.74	13.81	45.854814	91.7		1128	1025
70	13C12-BDE-154		525058.875	302607	222452	1.36	NO	14.13	0.93	14.10	14.17	40.047189	80.1		1070	464
71	13C12-BDE-153		204389.945	119460	84930	1.41	NO	14.88	0.98	14.85	14.92	46.095000	92.2		1774	1201

Quantify Sample Summary Report **MassLynx MassLynx V4.1 SCN 901**

Dataset: I:\Organics Instrument\HIGHRES GCMS Completed Results Files\HR-10\2021\2109\10-210913B-Q2-PBDE.qld

Last Altered: Tuesday, September 14, 2021 17:08:57 Eastern Daylight Time
Printed: Friday, September 17, 2021 10:47:47 Eastern Daylight Time

Name: 10-210913B33, Date: 14-Sep-2021, Time: 14:56:16, ID: H10-21-RS2-0123, Description: PBDEX-RS#2-003, Vial: Tray1:6

	Target Analyte	#Hom	Total Area	Ion1 Area	Ion2 Area	Ra	Ra Fail=YES	RT	RRT	RT LCL	RT UCL	Conc.	%Rec	Mod.Comment	Noise 1	Noise 2
72	13C12-BDE-183		254238.438	128402	125836	1.02	NO	17.01	0.95	16.98	17.04	39.025989	78.1		588	600
73	13C12-BDE-197		475107.094	217046	258061	0.84	NO	19.49	1.09	19.46	19.52	94.514475	94.5		944	493
74	13C12-BDE-207		1013282.6...	508777	504506	1.01	NO	21.35	0.99	21.32	21.39	244.13882	97.7		1450	1208
75	13C12-BDE-209		248362.422	139984	108378	1.29	NO	23.28	1.08	23.24	23.31	232.10219	92.8		1949	1163
76	13C14-DBDPE		424435.110	213991	210444	1.02	NO	24.67	1.14	24.64	24.70	531.64246	106.3		1079	1078
77	13C12-BDE-138 (CL)		176409.969	102366	74044	1.38	NO	15.83	1.05	15.80	15.86	47.248280	94.5		1774	1201
78	13C12-BDE-79 (IS)		730859.406	445110	285750	1.56	NO	10.73	0.71	10.70	10.76	83.776741	167.6		3515	1983
79	13C12-BDE-139 (IS)		260760.391	154583	106178	1.46	NO	15.14	0.00	15.11	15.17	103.47242	206.9		1774	1201
80	13C12-BDE-180 (IS)		154114.375	77974	76140	1.02	NO	17.89	1.18	17.85	17.92	131.13228	262.3		588	600
81	13C12-BDE-206 (IS)		781306.250	394316	386990	1.02	NO	21.63	1.43	21.59	21.66	541.15216	216.5		1450	1208
82	Total MoF1	3		2854070								164.44776			28606	
83	Total DiF2	5		1110781								181.35729			454	
84	Total TriF3	5		1114641								209.93237			1822	
85	Total PBEBF3	1		405335								56.725796			495	
86	Total TePBBF3			0											691	
87	Total HBBF4	1		180025								53.550361			598	
88	Total TetraF4	6		2124713								568.75312			3955	
89	Total PePBBF4	1		7422								1.0158249			507	
90	Total PentaF5	6		2194447								650.12569			1816	
91	Total PBB-153	1		588272								108.28134			905	
92	Total HexaF5	2		623807								112.64868			656	
93	Total HexaF6	5		1419495								840.67493			2688	
94	Total HeptaF6	3		1413571								726.38744			849	
95	Total PBB-180			0											594	
96	Total OctaF7	3		1151641								769.94576			1925	
97	Total PBB-194			0											196	
98	Total NonaF8	3		2892972								1782.1340			2508	
99	Total PBB-206			0											220	
100	Total PBB-209			0											269	
101	Total DecaF9	1		318498								581.14449			1325	
102	Total DBDPEF10															
103	Total 13CMoF1	1		1375664								37.261005			1418	
104	Total 13CDiF2	1		542454								40.404069			2806	
105	Total 13CTriF3	1		409001								44.479484			749	
106	Total 13CHBBF4	1		404887								42.325430			1417	
107	Total 13CTetraF4	3		1284077								189.52372			3515	
108	Total 13CPentaF5	3		788144								130.25941			1128	

Quantify Sample Summary Report **MassLynx MassLynx V4.1 SCN 901**

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Last Altered: Tuesday, September 14, 2021 17:08:57 Eastern Daylight Time
Printed: Friday, September 17, 2021 10:47:47 Eastern Daylight Time

Name: 10-210913B33, Date: 14-Sep-2021, Time: 14:56:16, ID: H10-21-RS2-0123, Description: PBDEX-RS#2-003, Vial: Tray1:6

	Target Analyte	#Hom	Total Area	Ion1 Area	Ion2 Area	Ra	Ra Fail=YES	RT	RRT	RT LCL	RT UCL	Conc.	%Rec	Mod.Comment	Noise 1	Noise 2
109	Total 13CHexaF5	1		302607								40.047189			1070	
110	Total 13CHexaF6	3		376409								196.81570			1774	
111	Total 13CHeptaF6	2		206377								170.15827			588	
112	Total 13COctaF7	1		217046								94.514475			944	
113	Total 13CNonaF8	2		903093								785.29098			1450	
114	Total 13CDecaF9	1		139984								232.10219			1949	
115	Total 13CDBDPEF10															
116	Lockmass F1			0											422501	
117	Lockmass F2			0											781929	
118	Lockmass F3			0											325748	
119	Lockmass F4			0											95208	
120	Lockmass F5			0											71511	
121	Lockmass F6			0											37029	
122	Lockmass F7			0											15629	
123	Lockmass F8			0											22905	
124	Lockmass F9			0											19705	
125	Lockmass F10															

Quantify Sample Summary Report **MassLynx MassLynx V4.1 SCN 901**

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Last Altered: Tuesday, September 14, 2021 17:08:57 Eastern Daylight Time
Printed: Friday, September 17, 2021 10:47:47 Eastern Daylight Time

Name: 10-210913B34, Date: 14-Sep-2021, Time: 15:31:07, ID: H10-21-CCV-0125, Description: PBDEX-CS#3-003, Vial: Tray1:1

	Target Analyte	#Hom	Total Area	Ion1 Area	Ion2 Area	Ra	Ra Fail=YES	RT	RRT	RT LCL	RT UCL	Conc.	%Rec	Mod.Comment	Noise 1	Noise 2
1	*BDE-1		477491.969	237446	240046	0.99	NO	4.90	0.96	4.87	4.94	19.102128	95.5		25033	34125
2	BDE-2		709123.125	363705	345418	1.05	NO	5.01	0.98	4.97	5.04	19.307533	96.5		25033	34125
3	BDE-3		882366.406	439337	443030	0.99	NO	5.11	1.00	5.08	5.15	19.991302	100.0		25033	34125
4	*BDE-10		284187.265	93970	190217	0.49	NO	6.33	0.89	6.30	6.37	20.971619	104.9		1175	637
5	BDE-7		287072.406	93960	193112	0.49	NO	6.71	0.94	6.67	6.74	21.044377	105.2		1175	637
6	BDE-8/BDE-11		816696.907	273045	543652	0.50	NO	6.87	0.96	6.84	6.90	41.745165	104.4		1175	637
7	BDE-12/BDE-13		930592.500	311753	618840	0.50	NO	6.99	0.98	6.96	7.02	41.159809	102.9		1175	637
8	BDE-15		553703.829	183343	370361	0.50	NO	7.14	1.00	7.11	7.17	20.649138	103.2		1175	637
9	*BDE-30		193014.867	97167	95847	1.01	NO	7.83	0.90	7.79	7.86	21.054392	105.3		1447	2340
10	BDE-32		266264.578	134934	131331	1.03	NO	8.28	0.96	8.25	8.32	21.218817	106.1		1447	2340
11	BDE-17/BDE-25		404765.359	204248	200517	1.02	NO	8.45	0.97	8.42	8.48	42.052845	105.1		1447	2340
12	BDE-28/BDE-33		412682.703	209813	202870	1.03	NO	8.67	1.00	8.64	8.71	41.182725	103.0		1447	2340
13	BDE-35		280796.469	142141	138656	1.03	NO	8.83	1.02	8.79	8.86	20.296276	101.5		1447	2340
14	BDE-37		280383.344	141245	139138	1.02	NO	9.02	1.04	8.98	9.05	20.258474	101.3		1447	2340
15	*PBEB		270318.235	138389	131930	1.05	NO	9.03	0.90	8.99	9.06	22.333481	111.7		496	517
16	*PBB-52		279715.539	168692	111023	1.52	NO	9.13	0.91	9.09	9.16	22.875438	114.4		921	528
17	*HBB		210129.348	60062	150067	0.40	NO	10.01	1.00	9.98	10.04	20.720313	103.6		486	473
18	*BDE-75		169734.594	68075	101659	0.67	NO	10.07	0.95	10.04	10.10	20.166306	100.8		1279	1893
19	BDE-51		215097.860	86962	128136	0.68	NO	10.13	0.96	10.10	10.17	21.542879	107.7		1279	1893
20	BDE-49		137853.395	55025	82829	0.66	NO	10.23	0.97	10.20	10.27	21.672646	108.4		1279	1893
21	BDE-71		141529.309	58377	83153	0.70	NO	10.29	0.98	10.26	10.33	21.654320	108.3		1279	1893
22	BDE-47		188780.883	76023	112758	0.67	NO	10.57	1.00	10.53	10.60	21.285485	106.4		1279	1893
23	BDE-79		218848.008	88210	130638	0.68	NO	10.73	1.02	10.70	10.76	21.997104	110.0		1279	1893
24	BDE-66		125957.699	51740	74217	0.70	NO	10.85	1.03	10.82	10.89	21.560234	107.8		1279	1893
25	BDE-77		191389.797	78572	112817	0.70	NO	11.33	1.00	11.29	11.36	21.365745	106.8		1279	1893
26	*PBB-101		475826.531	242794	233032	1.04	NO	11.46	1.01	11.43	11.50	40.247433	100.6		1048	796
27	*BDE-100		271751.062	136847	134904	1.01	NO	12.20	1.00	12.16	12.23	31.624761	105.4		1651	1532
28	BDE-119/BDE-120		245735.117	124088	121647	1.02	NO	12.37	1.01	12.34	12.40	61.846317	103.1		1651	1532
29	BDE-99		171444.289	86529	84915	1.02	NO	12.71	1.00	12.67	12.74	31.859573	106.2		1651	1532
30	BDE-116		74473.082	37849	36625	1.03	NO	12.85	1.01	12.82	12.89	28.785265	96.0		1651	1532
31	BDE-83		86539.469	44531	42008	1.06	NO	12.99	1.02	12.96	13.03	29.670407	98.9		1651	1532
32	BDE-118		98604.019	50415	48189	1.05	NO	13.12	1.03	13.08	13.15	29.673233	98.9		1651	1532
33	BDE-85		113670.738	57376	56294	1.02	NO	13.60	0.99	13.57	13.63	29.611077	98.7		1651	1532
34	BDE-126		186284.109	94584	91700	1.03	NO	13.77	1.00	13.74	13.81	32.163096	107.2		1651	1532
35	BDE-105		99322.883	51050	48273	1.06	NO	13.92	1.01	13.89	13.96	29.599179	98.7		1651	1532
36	*PBB-153		314456.594	181343	133114	1.36	NO	14.10	1.00	14.06	14.13	40.565873	101.4		391	851
37	*BDE-155		403067.641	233183	169884	1.37	NO	13.76	0.97	13.73	13.80	41.912505	104.8		598	319

Quantify Sample Summary Report **MassLynx MassLynx V4.1 SCN 901**

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Name: 10-210913B34, Date: 14-Sep-2021, Time: 15:31:07, ID: H10-21-CCV-0125, Description: PBDEX-CS#3-003, Vial: Tray1:1

	Target Analyte	#Hom	Total Area	Ion1 Area	Ion2 Area	Ra	Ra Fail=YES	RT	RRT	RT LCL	RT UCL	Conc.	%Rec	Mod.Comment	Noise 1	Noise 2
38	BDE-154		346845.016	200606	146239	1.37	NO	14.15	1.00	14.11	14.18	42.514722	106.3		598	319
39	*BDE-153		148174.520	85695	62479	1.37	NO	14.88	1.00	14.85	14.92	41.366891	103.4		2141	1605
40	BDE-140		177251.774	102451	74801	1.37	NO	15.34	1.01	15.31	15.37	40.862724	102.2		2141	1605
41	BDE-138/BDE-166		190307.360	110995	79313	1.40	NO	15.87	1.07	15.83	15.90	79.581135	99.5		2141	1605
42	BDE-156		60454.969	35867	24588	1.46	NO	16.22	1.09	16.18	16.25	39.107569	97.8		2141	1605
43	BDE-128		68162.412	39875	28287	1.41	NO	16.84	0.99	16.80	16.87	38.579247	96.4		2141	1605
44	*BDE-184		190448.625	95550	94898	1.01	NO	16.64	0.98	16.60	16.67	49.190464	98.4		685	871
45	BDE-183		131249.391	65211	66039	0.99	NO	17.01	1.00	16.98	17.04	50.386718	100.8		685	871
46	BDE-191		75248.898	37948	37301	1.02	NO	17.57	1.03	17.54	17.61	46.750376	93.5		685	871
47	BDE-181		73365.590	37016	36350	1.02	NO	18.12	1.01	18.09	18.16	44.982234	90.0		685	871
48	BDE-190		47185.113	23695	23491	1.01	NO	18.27	1.02	18.24	18.31	42.822529	85.6		685	871
49	*PBB-180		94563.218	47523	47041	1.01	NO	17.12	0.96	17.08	17.15	39.213191	98.0		1124	538
50	*BDE-197		101686.188	45367	56320	0.81	NO	19.49	1.00	19.46	19.52	52.091043	104.2		1168	1122
51	BDE-203		59596.670	26497	33100	0.80	NO	19.77	1.01	19.73	19.80	41.959126	83.9		1168	1122
52	BDE-196		73065.670	32754	40312	0.81	NO	19.91	1.02	19.87	19.94	44.847690	89.7		1168	1122
53	*PBB-194		44893.889	25441	19453	1.31	NO	19.97	1.02	19.94	20.00	35.401341	88.5		581	436
54	*BDE-208		147921.360	74901	73020	1.03	NO	21.23	0.99	21.19	21.26	89.958823	90.0		1485	832
55	BDE-207		200517.696	99476	101042	0.98	NO	21.35	1.00	21.32	21.39	105.26108	105.3		1485	832
56	BDE-206		151541.648	76450	75092	1.02	NO	21.61	1.01	21.58	21.65	105.27042	105.3		1485	832
57	*PBB-206		58207.974	29383	28825	1.02	NO	21.07	0.99	21.04	21.11	89.118422	89.1		1186	1906
58	*PBB-209		59005.054	32540	26465	1.23	NO	21.97	1.03	21.93	22.00	79.027942	79.0		1051	1301
59	*BDE-209		37269.840	20707	16563	1.25	NO	23.27	1.00	23.23	23.30	96.394820	96.4		535	266
60	*DBDPE		61577.029	30875	30702	1.01	NO	24.66	1.00	24.63	24.69	199.08127	99.5		340	405
61	13C12-BDE-3		2770840.7...	1361723	1409117	0.97	NO	5.10	0.48	5.07	5.14	43.571279	87.1		1789	1940
62	13C12-BDE-15		1581524.1...	528794	1052730	0.50	NO	7.13	0.67	7.10	7.16	45.589100	91.2		2203	4281
63	13C12-BDE-28		749366.938	377859	371508	1.02	NO	8.67	0.81	8.64	8.71	47.440566	94.9		1629	1864
64	13C6-HBB		484150.234	347480	136671	2.54	NO	10.00	0.93	9.96	10.03	42.581073	85.2		1091	828
65	13C12-BDE-47		528378.734	320348	208030	1.54	NO	10.56	0.98	10.52	10.59	48.226544	96.5		2234	1790
66	13C12-BDE-77		565723.672	337083	228641	1.47	NO	11.31	1.06	11.28	11.35	49.007699	98.0		2234	1790
67	13C12-BDE-100		563241.656	284665	278576	1.02	NO	12.20	0.81	12.16	12.23	49.385225	98.8		1817	2624
68	13C12-BDE-99		326577.188	163796	162781	1.01	NO	12.69	0.84	12.66	12.73	48.834677	97.7		1817	2624
69	13C12-BDE-126		369763.453	188026	181738	1.03	NO	13.76	0.91	13.73	13.80	49.139356	98.3		1817	2624
70	13C12-BDE-154		445870.485	259320	186550	1.39	NO	14.13	0.93	14.10	14.17	48.386787	96.8		714	635
71	13C12-BDE-153		154485.172	91581	62904	1.46	NO	14.87	0.98	14.84	14.91	49.571849	99.1		959	991
72	13C12-BDE-183		174388.406	87630	86758	1.01	NO	17.01	0.95	16.98	17.04	49.990905	100.0		728	721
73	13C12-BDE-197		248155.985	111777	136379	0.82	NO	19.49	1.09	19.46	19.52	92.191790	92.2		729	440
74	13C12-BDE-207		523739.094	263193	260547	1.01	NO	21.34	0.99	21.31	21.38	244.01636	97.6		1654	1150

Quantify Sample Summary Report **MassLynx MassLynx V4.1 SCN 901**

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Name: 10-210913B34, Date: 14-Sep-2021, Time: 15:31:07, ID: H10-21-CCV-0125, Description: PBDEX-CS#3-003, Vial: Tray1:1

	Target Analyte	#Hom	Total Area	Ion1 Area	Ion2 Area	Ra	Ra Fail=YES	RT	RRT	RT LCL	RT UCL	Conc.	%Rec	Mod.Comment	Noise 1	Noise 2
75	13C12-BDE-209		100107.398	56151	43956	1.28	NO	23.26	1.08	23.22	23.29	180.90778	72.4		1172	1386
76	13C14-DBDPE		173633.492	87463	86170	1.01	NO	24.65	1.14	24.61	24.68	420.57125	84.1		823	976
77	13C12-BDE-138 (CL)		130751.981	77553	53199	1.46	NO	15.83	1.05	15.80	15.86	49.827050	99.7		959	991
78	13C12-BDE-79 (IS)		629058.719	383179	245879	1.56	NO	10.72	0.71	10.68	10.75	72.107561	144.2		2234	1790
79	13C12-BDE-139 (IS)		183268.406	108171	75098	1.44	NO	15.14	0.00	15.11	15.17	72.722800	145.4		959	991
80	13C12-BDE-180 (IS)		82524.418	41438	41087	1.01	NO	17.88	1.18	17.84	17.91	70.218076	140.4		728	721
81	13C12-BDE-206 (IS)		404039.265	204333	199706	1.02	NO	21.61	1.43	21.58	21.65	279.84765	111.9		1654	1150
82	Total MoF1	3		1040488								58.400963			25033	
83	Total DiF2	5		956072								145.57011			1175	
84	Total TriF3	6		929548								166.06353			1447	
85	Total PBEBF3	1		138389								22.333481			496	
86	Total TePBBF3	1		168692								22.875438			921	
87	Total HBBF4	1		60062								20.720313			486	
88	Total TetraF4	8		562984								171.24472			1279	
89	Total PePBBF4	1		242794								40.247433			1048	
90	Total PentaF5	9		683270								304.83291			1651	
91	Total PBB-153	1		181343								40.565873			391	
92	Total HexaF5	2		433789								84.427227			598	
93	Total HexaF6	5		374882								239.49757			2141	
94	Total HeptaF6	5		259419								234.13232			685	
95	Total PBB-180	1		47523								39.213191			1124	
96	Total OctaF7	3		104617								138.89786			1168	
97	Total PBB-194	1		25441								35.401341			581	
98	Total NonaF8	3		250827								300.49033			1485	
99	Total PBB-206	1		29383								89.118422			1186	
100	Total PBB-209	1		32540								79.027942			1051	
101	Total DecaF9	1		20707								96.394820			535	
102	Total DBDPEF10															
103	Total 13CMoF1	1		1361723								43.571279			1789	
104	Total 13CDiF2	1		528794								45.589100			2203	
105	Total 13CTriF3	1		377859								47.440566			1629	
106	Total 13CHBBF4	1		347480								42.581073			1091	
107	Total 13CTetraF4	3		1040610								169.34180			2234	
108	Total 13CPentaF5	3		636487								147.35926			1817	
109	Total 13CHexaF5	1		259320								48.386787			714	
110	Total 13CHexaF6	3		277305								172.12170			959	
111	Total 13CHeptaF6	2		129068								120.20898			728	

Quantify Sample Summary Report **MassLynx MassLynx V4.1 SCN 901**

Dataset: I:\Organics Instrument\HIGHRES GCMS Completed Results Files\HR-10\2021\2109\10-210913B-Q2-PBDE.qld

Last Altered: Tuesday, September 14, 2021 17:08:57 Eastern Daylight Time
Printed: Friday, September 17, 2021 10:47:47 Eastern Daylight Time

Name: 10-210913B34, Date: 14-Sep-2021, Time: 15:31:07, ID: H10-21-CCV-0125, Description: PBDEX-CS#3-003, Vial: Tray1:1

	Target Analyte	#Hom	Total Area	Ion1 Area	Ion2 Area	Ra	Ra Fail=YES	RT	RRT	RT LCL	RT UCL	Conc.	%Rec	Mod.Comment	Noise 1	Noise 2
112	Total 13COctaF7	1		111777								92.191790			729	
113	Total 13CNonaF8	2		467526								523.86402			1654	
114	Total 13CDecaF9	1		56151								180.90778			1172	
115	Total 13CDBDPEF10															
116	Lockmass F1			0											258987	
117	Lockmass F2			0											533146	
118	Lockmass F3			0											267513	
119	Lockmass F4			0											123650	
120	Lockmass F5			0											65580	
121	Lockmass F6			0											28236	
122	Lockmass F7			0											18507	
123	Lockmass F8			0											21985	
124	Lockmass F9			0											31286	
125	Lockmass F10															

Quantify Sample Summary Report **MassLynx MassLynx V4.1 SCN 901**

Dataset: I:\Organics Instrument\HIGHRES GCMS Completed Results Files\HR-10\2021\2109\10-210913B-Q2-PBDE.qld

Last Altered: Tuesday, September 14, 2021 17:08:57 Eastern Daylight Time
Printed: Friday, September 17, 2021 10:47:47 Eastern Daylight Time

Name: 10-210913B35, Date: 14-Sep-2021, Time: 16:22:34, ID: H10-21-RS3-0123, Description: PBDEX-RS#2-003, Vial: Tray1:10

	Target Analyte	#Hom	Total Area	Ion1 Area	Ion2 Area	Ra	Ra Fail=YES	RT	RRT	RT LCL	RT UCL	Conc.	%Rec	Mod.Comment	Noise 1	Noise 2
1	*BDE-1		3134.853	452	2683	0.17	YES	4.89	0.96	4.86	4.93	0.13600953			21127	46609
2	BDE-2														21127	46609
3	BDE-3		3314.946	514	2801	0.18	YES	5.13	1.00	5.10	5.17	0.081452618			21127	46609
4	*BDE-10														441	604
5	BDE-7														441	604
6	BDE-8/BDE-11														441	604
7	BDE-12/BDE-13														441	604
8	BDE-15														441	604
9	*BDE-30														1432	1466
10	BDE-32		1914.903	897	1017	0.88	NO	8.29	0.96	8.26	8.33	0.16816551			1432	1466
11	BDE-17/BDE-25		596302.438	299538	296765	1.01	NO	8.45	0.97	8.42	8.48	68.271747			1432	1466
12	BDE-28/BDE-33		621559.626	310871	310689	1.00	NO	8.68	1.00	8.65	8.72	68.354010			1432	1466
13	BDE-35														1432	1466
14	BDE-37														1432	1466
15	*PBEB														390	214
16	*PBB-52														776	405
17	*HBB														323	245
18	*BDE-75														1384	1540
19	BDE-51		633.889	269	365	0.74	NO	10.15	0.96	10.11	10.18	0.070084504			1384	1540
20	BDE-49														1384	1540
21	BDE-71		328780.984	132010	196771	0.67	NO	10.31	0.98	10.27	10.34	55.532340			1384	1540
22	BDE-47		466254.797	187018	279236	0.67	NO	10.57	1.00	10.53	10.60	56.312037			1384	1540
23	BDE-79														1384	1540
24	BDE-66		295050.133	119364	175686	0.68	NO	10.85	1.03	10.82	10.89	55.752674			1384	1540
25	BDE-77		1149.174	555	594	0.94	YES	11.33	1.00	11.29	11.36	0.14578665			1384	1540
26	*PBB-101														440	491
27	*BDE-100		439336.313	222173	217164	1.02	NO	12.21	1.00	12.18	12.24	56.073214			1164	1472
28	BDE-119/BDE-120														1164	1472
29	BDE-99		290421.453	145859	144563	1.01	NO	12.72	1.00	12.68	12.75	58.052878			1164	1472
30	BDE-116														1164	1472
31	BDE-83														1164	1472
32	BDE-118														1164	1472
33	BDE-85		196398.086	100296	96102	1.04	NO	13.61	0.99	13.58	13.65	57.931198			1164	1472
34	BDE-126														1164	1472
35	BDE-105		1287.643	893	394	2.27	YES	13.94	1.01	13.90	13.97	0.43450578			1164	1472
36	*PBB-153														327	664
37	*BDE-155														654	478

Quantify Sample Summary Report **MassLynx MassLynx V4.1 SCN 901**

Dataset: I:\Organics Instrument\HIGHRES GCMS Completed Results Files\HR-10\2021\2109\10-210913B-Q2-PBDE.qld

Last Altered: Tuesday, September 14, 2021 17:08:57 Eastern Daylight Time
Printed: Friday, September 17, 2021 10:47:47 Eastern Daylight Time

Name: 10-210913B35, Date: 14-Sep-2021, Time: 16:22:34, ID: H10-21-RS3-0123, Description: PBDEX-RS#2-003, Vial: Tray1:10

	Target Analyte	#Hom	Total Area	Ion1 Area	Ion2 Area	Ra	Ra Fail=YES	RT	RRT	RT LCL	RT UCL	Conc.	%Rec	Mod.Comment	Noise 1	Noise 2
38	BDE-154		378296.157	218668	159628	1.37	NO	14.15	1.00	14.11	14.18	52.519639			654	478
39	*BDE-153		153544.504	90475	63069	1.43	NO	14.90	1.00	14.86	14.93	49.124995			1844	1025
40	BDE-140		2260.518	1166	1094	1.07	YES	15.34	1.01	15.31	15.37	0.59202222			1844	1025
41	BDE-138/BDE-166		192754.875	111562	81192	1.37	NO	15.84	1.06	15.81	15.88	91.570003			1844	1025
42	BDE-156														1844	1025
43	BDE-128														1844	1025
44	*BDE-184														334	438
45	BDE-183		116065.382	58745	57320	1.02	NO	17.02	1.00	16.99	17.06	56.777733			334	438
46	BDE-191														334	438
47	BDE-181														334	438
48	BDE-190		37560.885	18859	18702	1.01	NO	18.29	1.02	18.25	18.32	43.436988			334	438
49	*PBB-180														665	291
50	*BDE-197														267	216
51	BDE-203														267	216
52	BDE-196														267	216
53	*PBB-194														188	235
54	*BDE-208														1102	535
55	BDE-207		766.598	365	402	0.91	NO	21.35	1.00	21.32	21.39	0.65156331			1102	535
56	BDE-206		1408.642	689	720	0.96	NO	21.63	1.01	21.59	21.66	1.5843415			1102	535
57	*PBB-206														340	430
58	*PBB-209														297	945
59	*BDE-209		64464.369	36237	28228	1.28	NO	23.28	1.00	23.24	23.31	183.14206			484	536
60	*DBDPE														187	365
61	13C12-BDE-3		2554907.0...	1261361	1293546	0.98	NO	5.11	0.48	5.08	5.15	44.544668	89.1		1258	1888
62	13C12-BDE-15		1395525.6...	462502	933023	0.50	NO	7.14	0.67	7.11	7.17	44.602059	89.2		2062	4525
63	13C12-BDE-28		680005.063	344752	335253	1.03	NO	8.68	0.81	8.65	8.72	47.730872	95.5		1629	1976
64	13C6-HBB		421403.781	303500	117903	2.57	NO	10.01	0.93	9.98	10.04	41.092898	82.2		1095	1058
65	13C12-BDE-47		493279.359	296115	197164	1.50	NO	10.57	0.98	10.53	10.60	49.918972	99.8		2263	2293
66	13C12-BDE-77		497819.203	298819	199000	1.50	NO	11.33	1.06	11.29	11.36	47.814926	95.6		2263	2293
67	13C12-BDE-100		513561.453	258398	255163	1.01	NO	12.21	0.81	12.18	12.24	50.432013	100.9		2250	2438
68	13C12-BDE-99		303604.156	152407	151197	1.01	NO	12.71	0.84	12.67	12.74	50.846585	101.7		2250	2438
69	13C12-BDE-126		295223.719	148555	146668	1.01	NO	13.77	0.91	13.74	13.81	43.940838	87.9		2250	2438
70	13C12-BDE-154		393661.376	227872	165789	1.37	NO	14.15	0.93	14.11	14.18	47.846753	95.7		887	493
71	13C12-BDE-153		134802.488	78901	55902	1.41	NO	14.88	0.98	14.85	14.92	48.445989	96.9		1415	1213
72	13C12-BDE-183		136855.117	68648	68207	1.01	NO	17.01	0.95	16.98	17.04	52.786608	105.6		834	652
73	13C12-BDE-197		181022.648	81465	99557	0.82	NO	19.50	1.09	19.47	19.54	90.487738	90.5		907	464
74	13C12-BDE-207		323475.344	162367	161109	1.01	NO	21.35	0.99	21.32	21.39	240.21939	96.1		1833	1484

Quantify Sample Summary Report **MassLynx MassLynx V4.1 SCN 901**

Dataset: I:\Organics Instrument\HIGHRES GCMS Completed Results Files\HR-10\2021\2109\10-210913B-Q2-PBDE.qld

Last Altered: Tuesday, September 14, 2021 17:08:57 Eastern Daylight Time
Printed: Friday, September 17, 2021 10:47:47 Eastern Daylight Time

Name: 10-210913B35, Date: 14-Sep-2021, Time: 16:22:34, ID: H10-21-RS3-0123, Description: PBDEX-RS#2-003, Vial: Tray1:10

	Target Analyte	#Hom	Total Area	Ion1 Area	Ion2 Area	Ra	Ra Fail=YES	RT	RRT	RT LCL	RT UCL	Conc.	%Rec	Mod.Comment	Noise 1	Noise 2
75	13C12-BDE-209		91136.844	52348	38788	1.35	NO	23.28	1.08	23.24	23.31	262.51128	105.0		798	941
76	13C14-DBDPE		116243.445	58237	58006	1.00	NO	24.66	1.14	24.62	24.69	448.78411	89.8		699	966
77	13C12-BDE-138 (CL)		110745.715	66786	43960	1.52	NO	15.84	1.05	15.81	15.88	47.266717	94.5		1415	1213
78	13C12-BDE-79 (IS)		567360.766	340403	226958	1.50	NO	10.73	0.71	10.70	10.76	65.035266	130.1		2263	2293
79	13C12-BDE-139 (IS)		163634.922	94857	68778	1.38	NO	15.15	0.00	15.12	15.19	64.932030	129.9		1415	1213
80	13C12-BDE-180 (IS)		61332.850	30922	30410	1.02	NO	17.89	1.18	17.85	17.92	52.186672	104.4		834	652
81	13C12-BDE-206 (IS)		253489.898	129818	123672	1.05	NO	21.61	1.43	21.58	21.65	175.57341	70.2		1833	1484
82	Total MoF1	2		966								0.21746214			21127	
83	Total DiF2			0											441	
84	Total TriF3	3		611306								136.79392			1432	
85	Total PBEBF3			0											390	
86	Total TePBBF3			0											776	
87	Total HBBF4			0											323	
88	Total TetraF4	5		439216								167.81292			1384	
89	Total PePBBF4			0											440	
90	Total PentaF5	4		469221								172.49180			1164	
91	Total PBB-153			0											327	
92	Total HexaF5	1		218668								52.519639			654	
93	Total HexaF6	3		203204								141.28702			1844	
94	Total HeptaF6	2		77604								100.21472			334	
95	Total PBB-180			0											665	
96	Total OctaF7			0											267	
97	Total PBB-194			0											188	
98	Total NonaF8	2		1054								2.2359048			1102	
99	Total PBB-206			0											340	
100	Total PBB-209			0											297	
101	Total DecaF9	1		36237								183.14206			484	
102	Total DBDPEF10															
103	Total 13CMoF1	1		1261361								44.544668			1258	
104	Total 13CDiF2	1		462502								44.602059			2062	
105	Total 13CTriF3	1		344752								47.730872			1629	
106	Total 13CHBBF4	1		303500								41.092898			1095	
107	Total 13CTetraF4	3		935337								162.76916			2263	
108	Total 13CPentaF5	3		559361								145.21944			2250	
109	Total 13CHexaF5	1		227872								47.846753			887	
110	Total 13CHexaF6	3		240543								160.64474			1415	
111	Total 13CHeptaF6	2		99571								104.97328			834	

Quantify Sample Summary Report **MassLynx MassLynx V4.1 SCN 901**

Dataset: I:\Organics Instrument\HIGHRES GCMS Completed Results Files\HR-10\2021\2109\10-210913B-Q2-PBDE.qld

Last Altered: Tuesday, September 14, 2021 17:08:57 Eastern Daylight Time
Printed: Friday, September 17, 2021 10:47:47 Eastern Daylight Time

Name: 10-210913B35, Date: 14-Sep-2021, Time: 16:22:34, ID: H10-21-RS3-0123, Description: PBDEX-RS#2-003, Vial: Tray1:10

	Target Analyte	#Hom	Total Area	Ion1 Area	Ion2 Area	Ra	Ra Fail=YES	RT	RRT	RT LCL	RT UCL	Conc.	%Rec	Mod.Comment	Noise 1	Noise 2
112	Total 13COctaF7	1		81465								90.487738			907	
113	Total 13CNonaF8	2		292185								415.79280			1833	
114	Total 13CDecaF9	1		52348								262.51128			798	
115	Total 13CDBDPEF10															
116	Lockmass F1			0											230422	
117	Lockmass F2			0											703742	
118	Lockmass F3			0											323511	
119	Lockmass F4			0											123205	
120	Lockmass F5			0											73660	
121	Lockmass F6			0											30029	
122	Lockmass F7			0											20372	
123	Lockmass F8			0											19424	
124	Lockmass F9			0											28394	
125	Lockmass F10															

Quantify Audit Report MassLynx MassLynx V4.1 SCN 901

Dataset: I:\Organics Instrument\HIGHRES GCMS Completed Results Files\HR-10\2021\2109\10-210913B-Q2-PBDE.qld

Last Altered: Tuesday, September 14, 2021 17:08:57 Eastern Daylight Time
Printed: Friday, September 17, 2021 10:47:47 Eastern Daylight Time

Date	Time	Event	Details	Comments
14-Sep-21	17:08:52	Process Extract		
14-Sep-21	17:08:52	Process Integrate		
14-Sep-21	17:08:52	Process Quantify		
14-Sep-21	17:08:57	Dataset Created		
14-Sep-21	17:20:45	Dataset Saved	Saved to 'I:\Organics Instrument\HIGHRES GCMS Complete...	

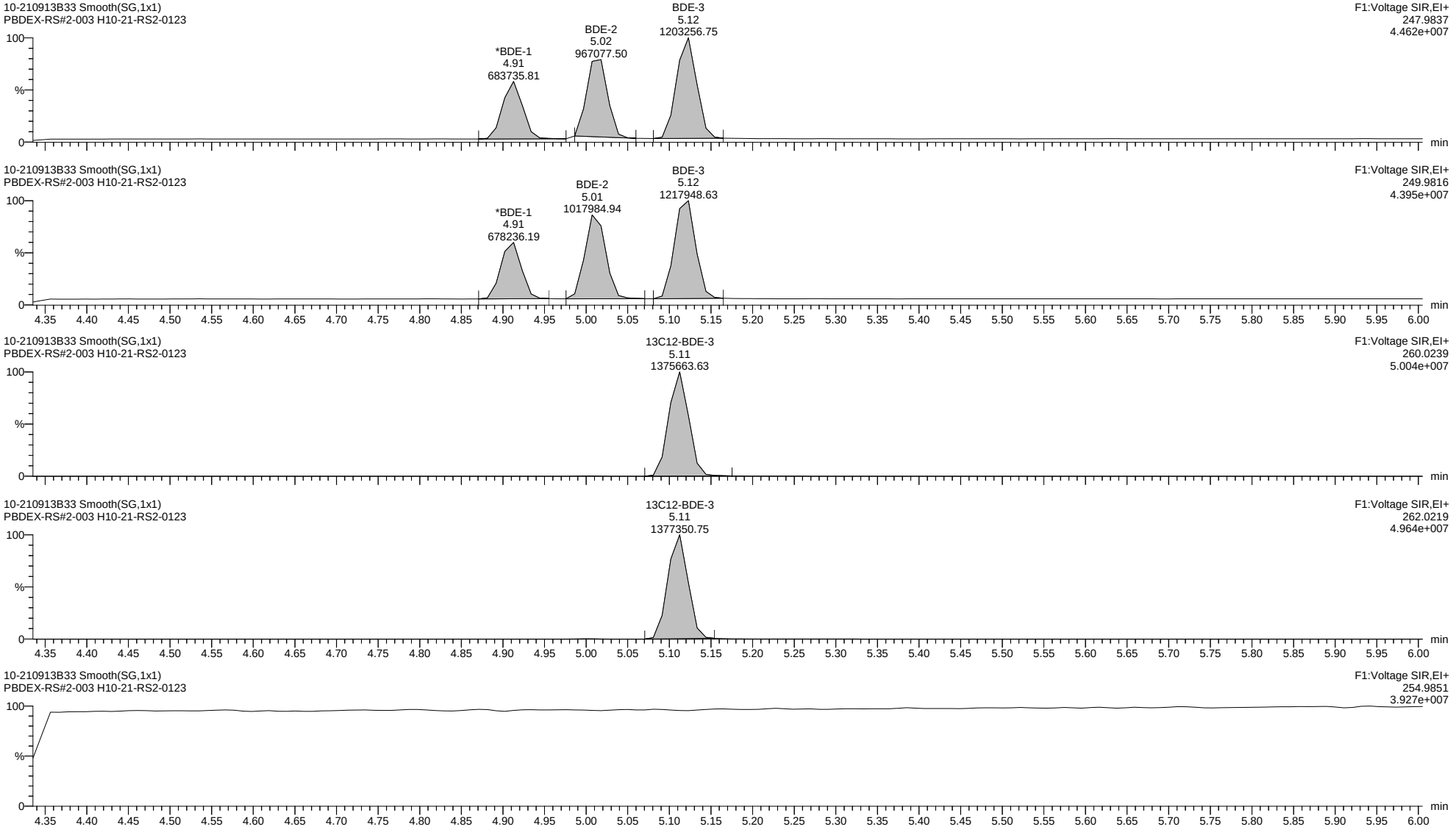
Quantify Sample Template Report **MassLynx MassLynx V4.1 SCN 901**

Dataset: I:\Organics Instrument\HIGHRES GCMS Completed Results Files\HR-10\2021\2109\10-210913B-Q2-PBDE.qld

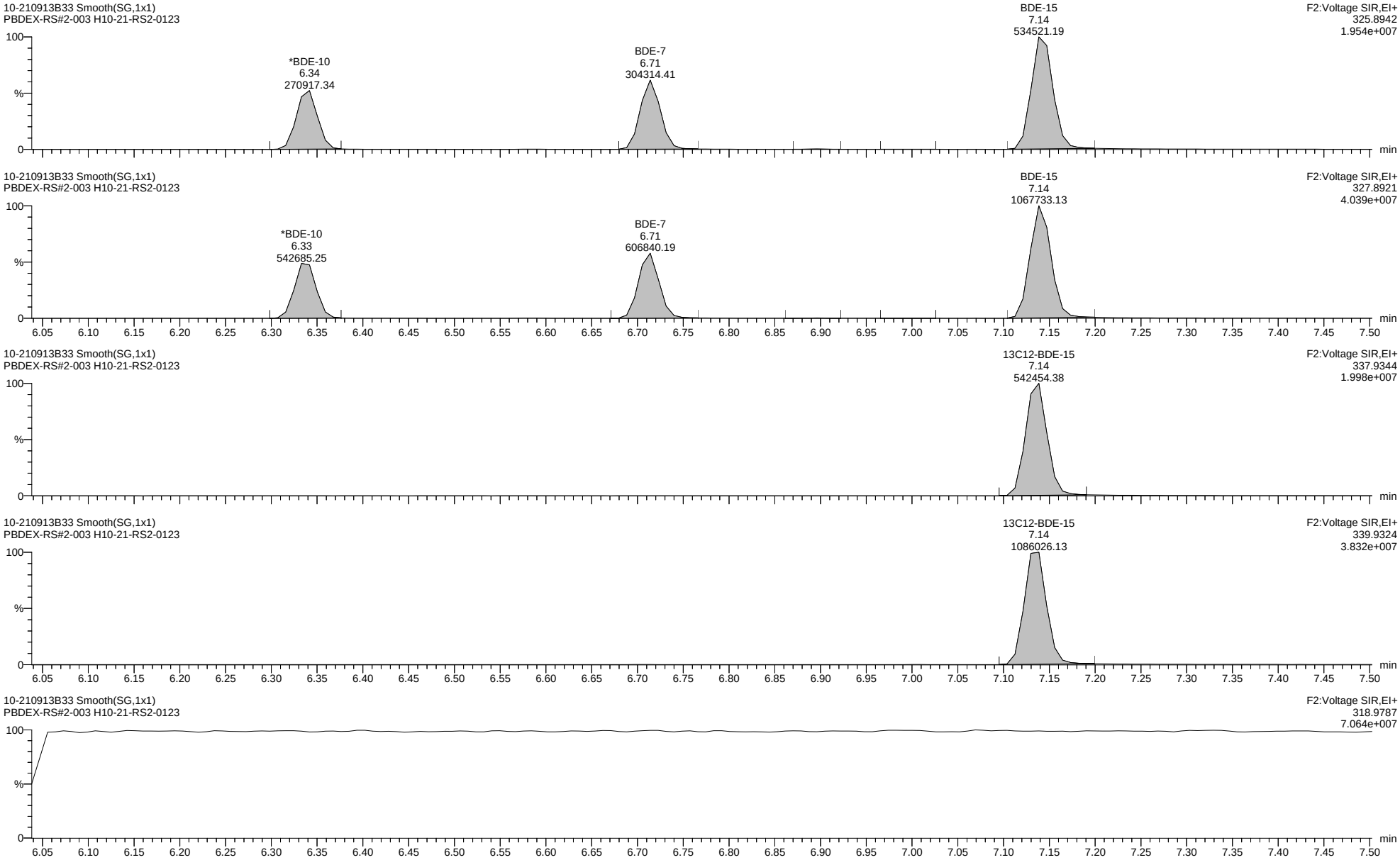
Last Altered: Tuesday, September 14, 2021 17:08:57 Eastern Daylight Time
Printed: Friday, September 17, 2021 10:47:47 Eastern Daylight Time

Method: C:\MassLynx\PBDE.PRO\MethDB\PBDEX-DB5-1-210913B.mdb 14 Sep 2021 11:10:04
Calibration: C:\MassLynx\PBDE.PRO\CurveDB\10-210913B-ICAL-PBDE.cdb 14 Sep 2021 11:07:06

Name: 10-210913B33, Date: 14-Sep-2021, Time: 14:56:16, ID: H10-21-RS2-0123, Description: PBDEX-RS#2-003, Vial: Tray1:6



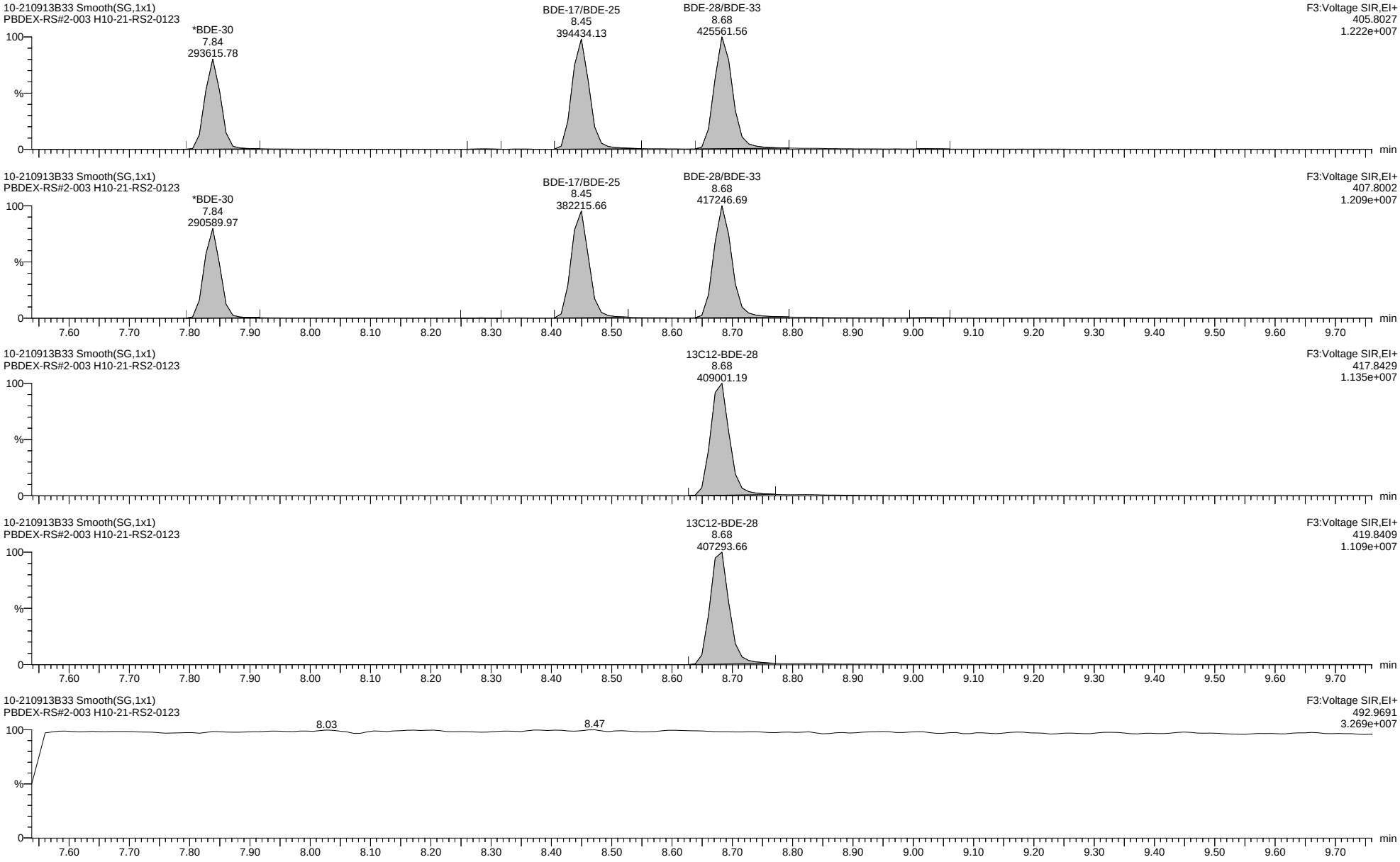
Name: 10-210913B33, Date: 14-Sep-2021, Time: 14:56:16, ID: H10-21-RS2-0123, Description: PBDEX-RS#2-003, Vial: Tray1:6



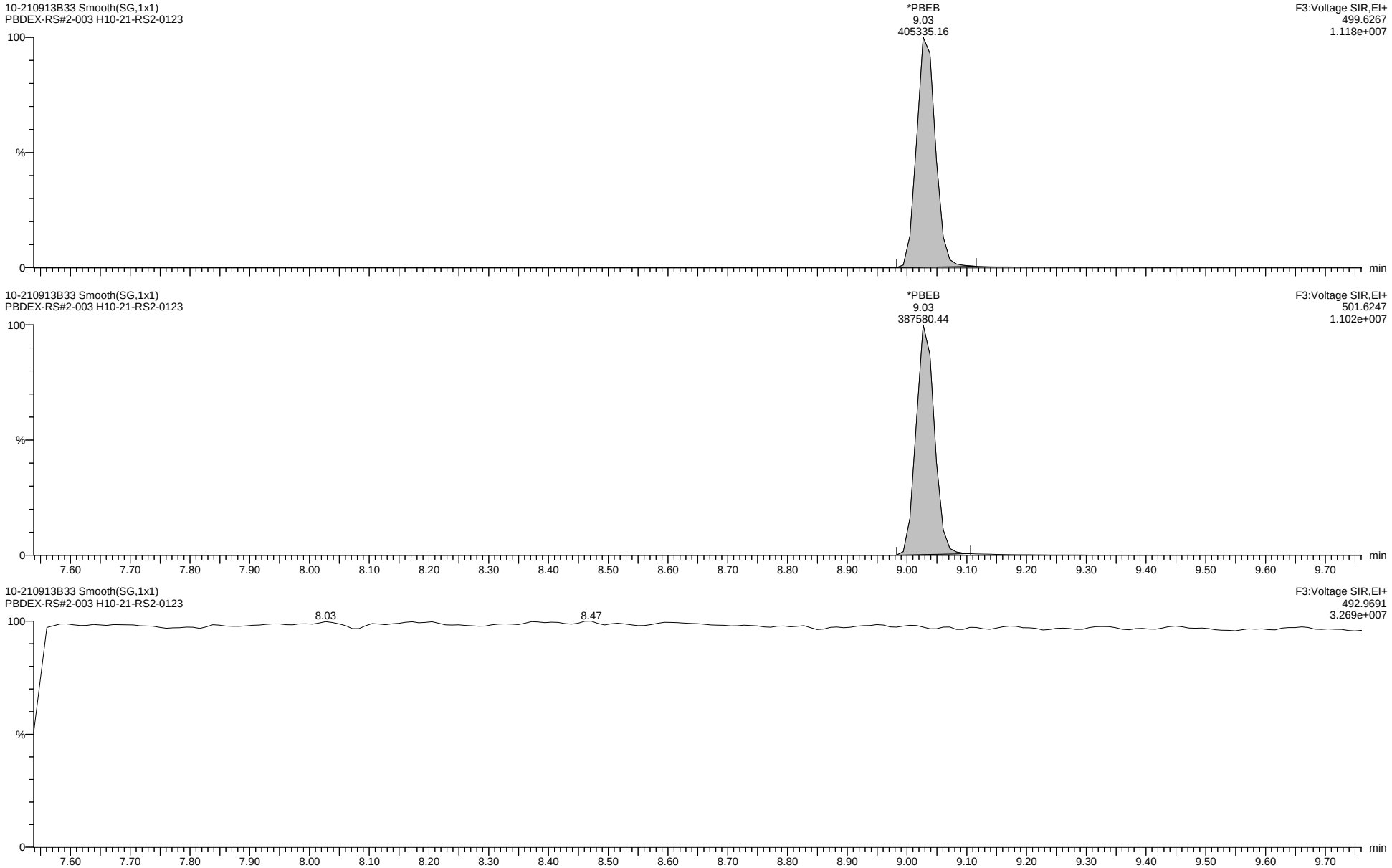
Dataset: I:\Organics Instrument\HIGHRES GCMS Completed Results Files\HR-10\2021\2109\10-210913B-Q2-PBDE.qld

Last Altered: Tuesday, September 14, 2021 17:08:57 Eastern Daylight Time
Printed: Friday, September 17, 2021 10:47:47 Eastern Daylight Time

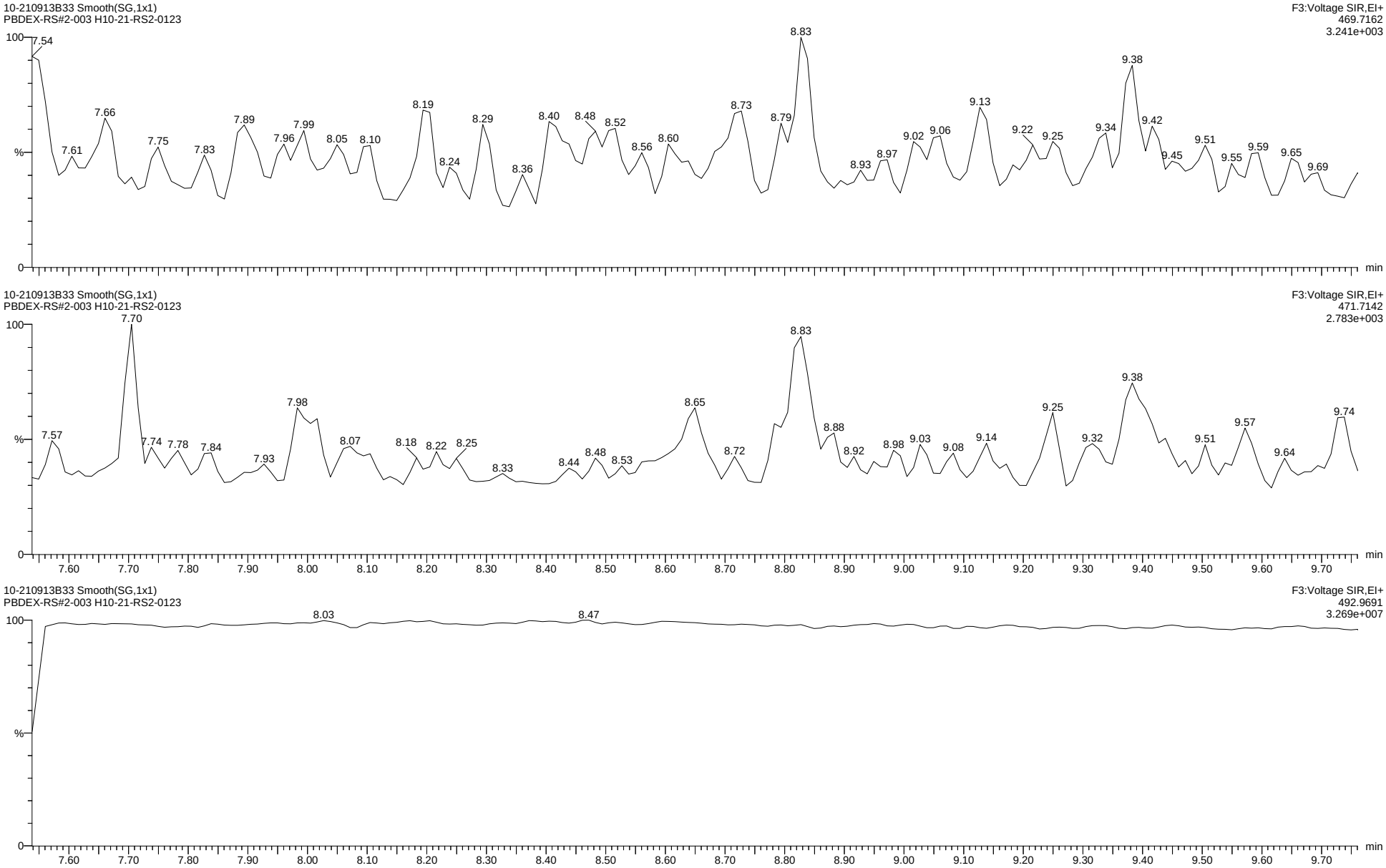
Name: 10-210913B33, Date: 14-Sep-2021, Time: 14:56:16, ID: H10-21-RS2-0123, Description: PBDEX-RS#2-003, Vial: Tray1:6



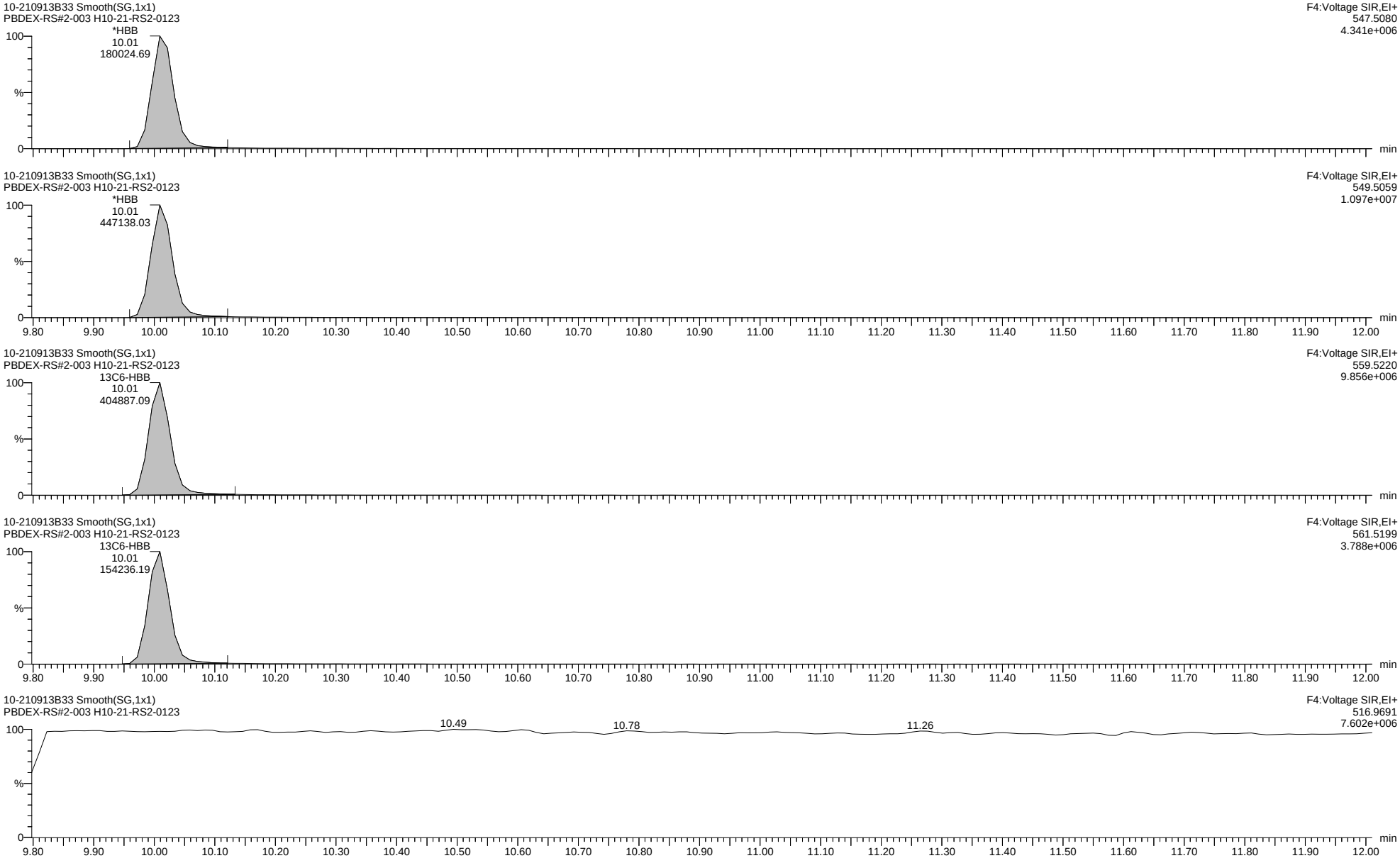
Name: 10-210913B33, Date: 14-Sep-2021, Time: 14:56:16, ID: H10-21-RS2-0123, Description: PBDEX-RS#2-003, Vial: Tray1:6



Name: 10-210913B33, Date: 14-Sep-2021, Time: 14:56:16, ID: H10-21-RS2-0123, Description: PBDEX-RS#2-003, Vial: Tray1:6



Name: 10-210913B33, Date: 14-Sep-2021, Time: 14:56:16, ID: H10-21-RS2-0123, Description: PBDEX-RS#2-003, Vial: Tray1:6



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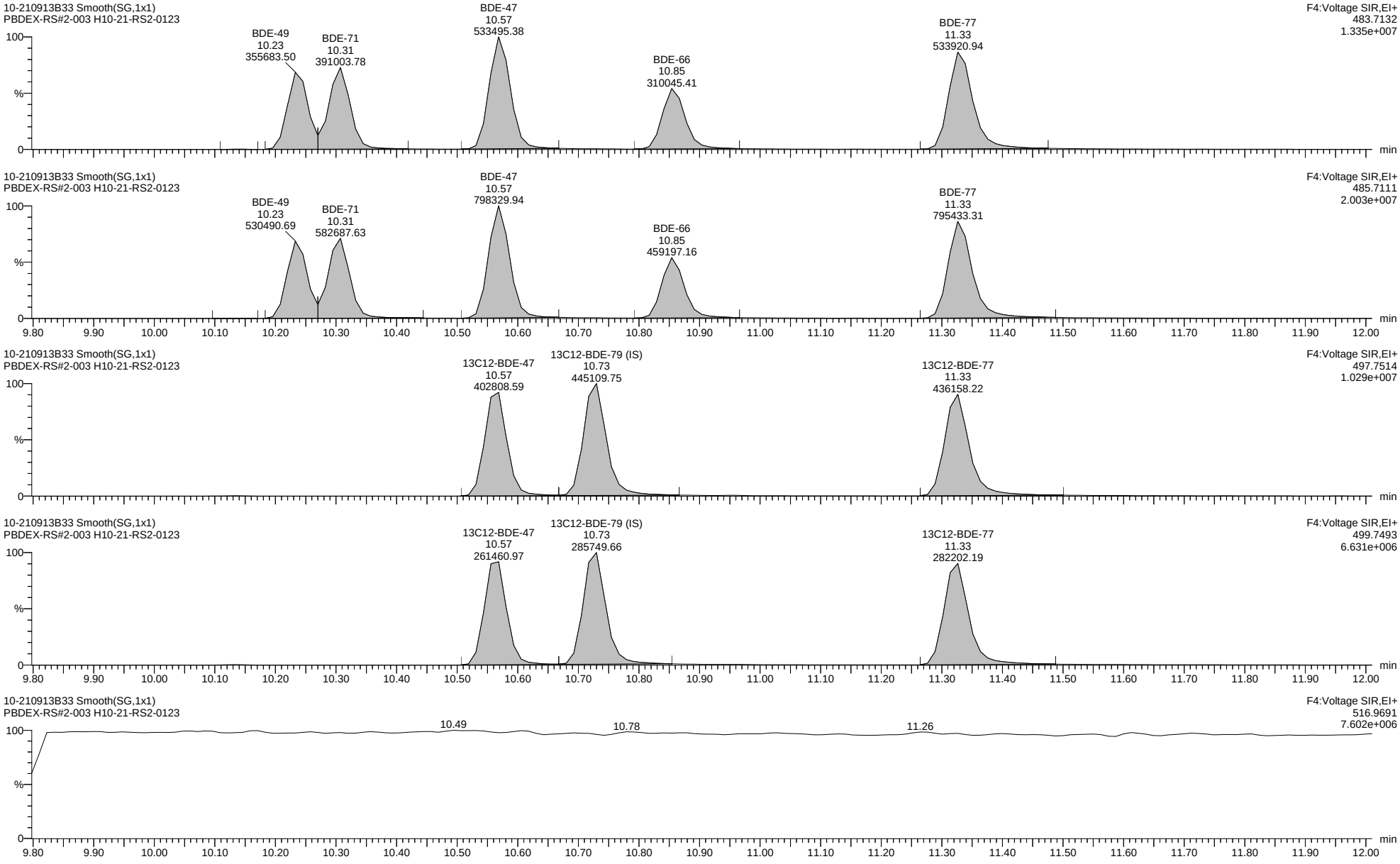

Quantify Sample Template Report **MassLynx MassLynx V4.1 SCN 901**

Dataset: I:\Organics Instrument\HIGHRES GCMS Completed Results Files\HR-10\2021\2109\10-210913B-Q2-PBDE.qld

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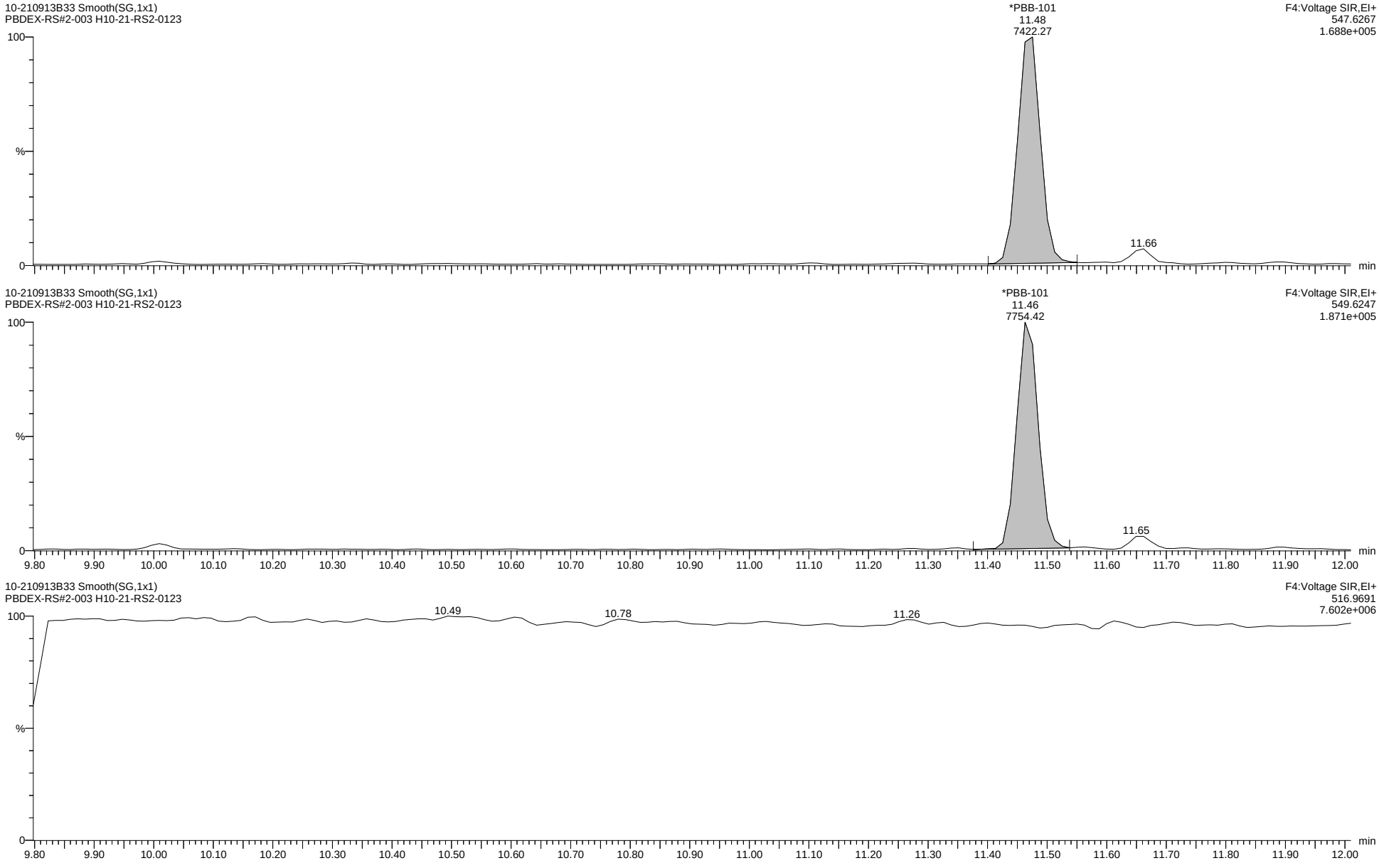

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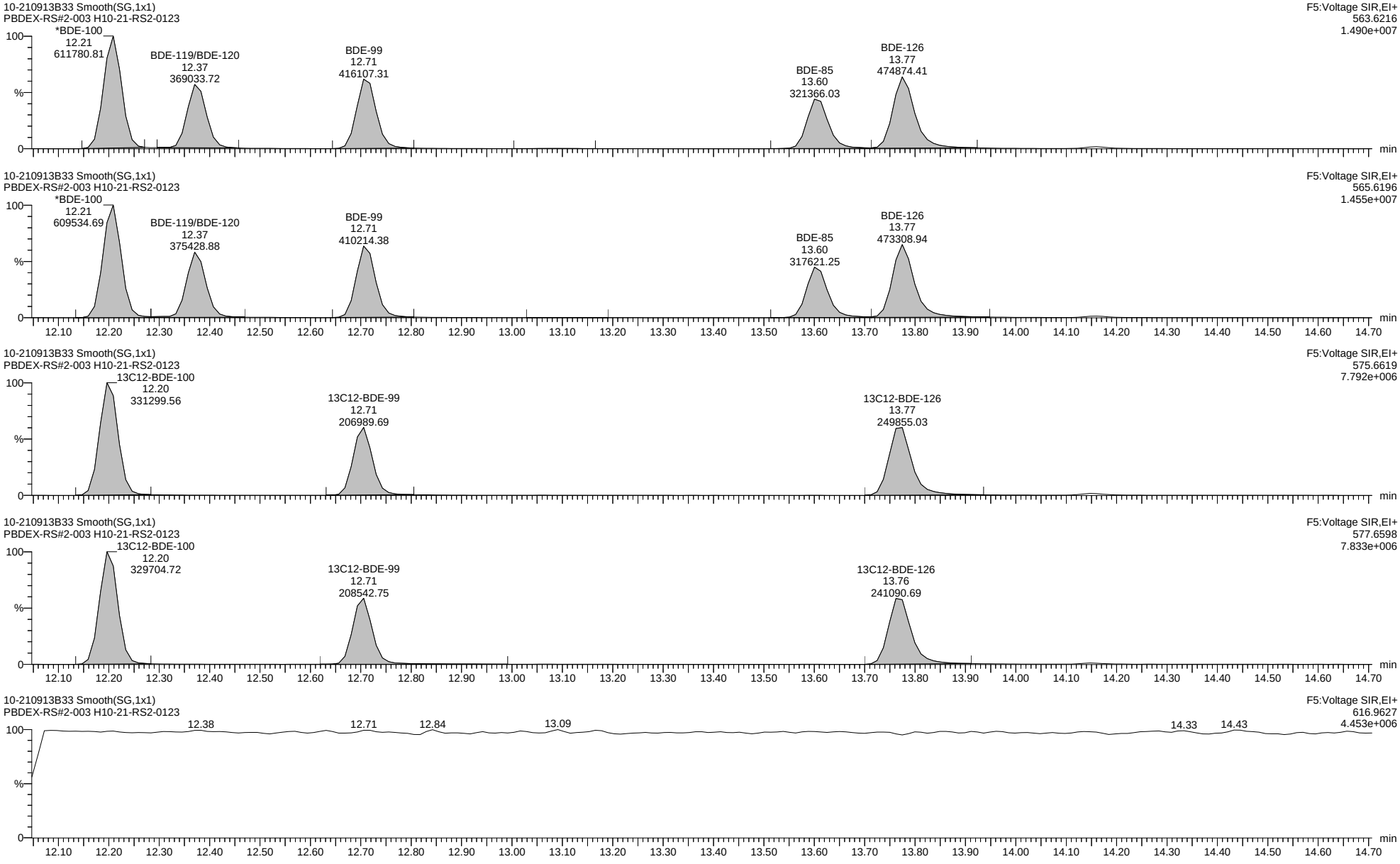

Quantify Sample Template Report **MassLynx MassLynx V4.1 SCN 901**

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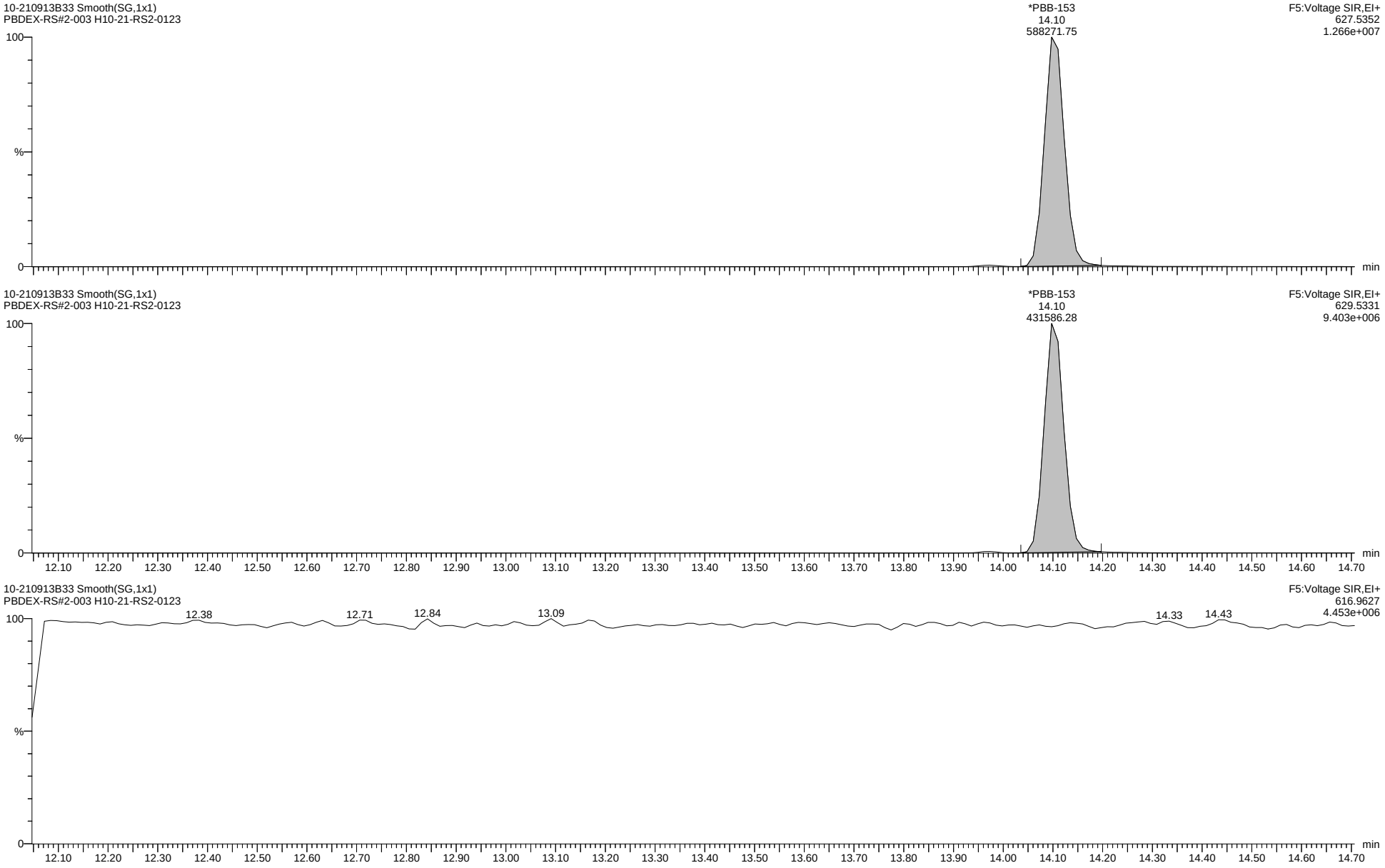

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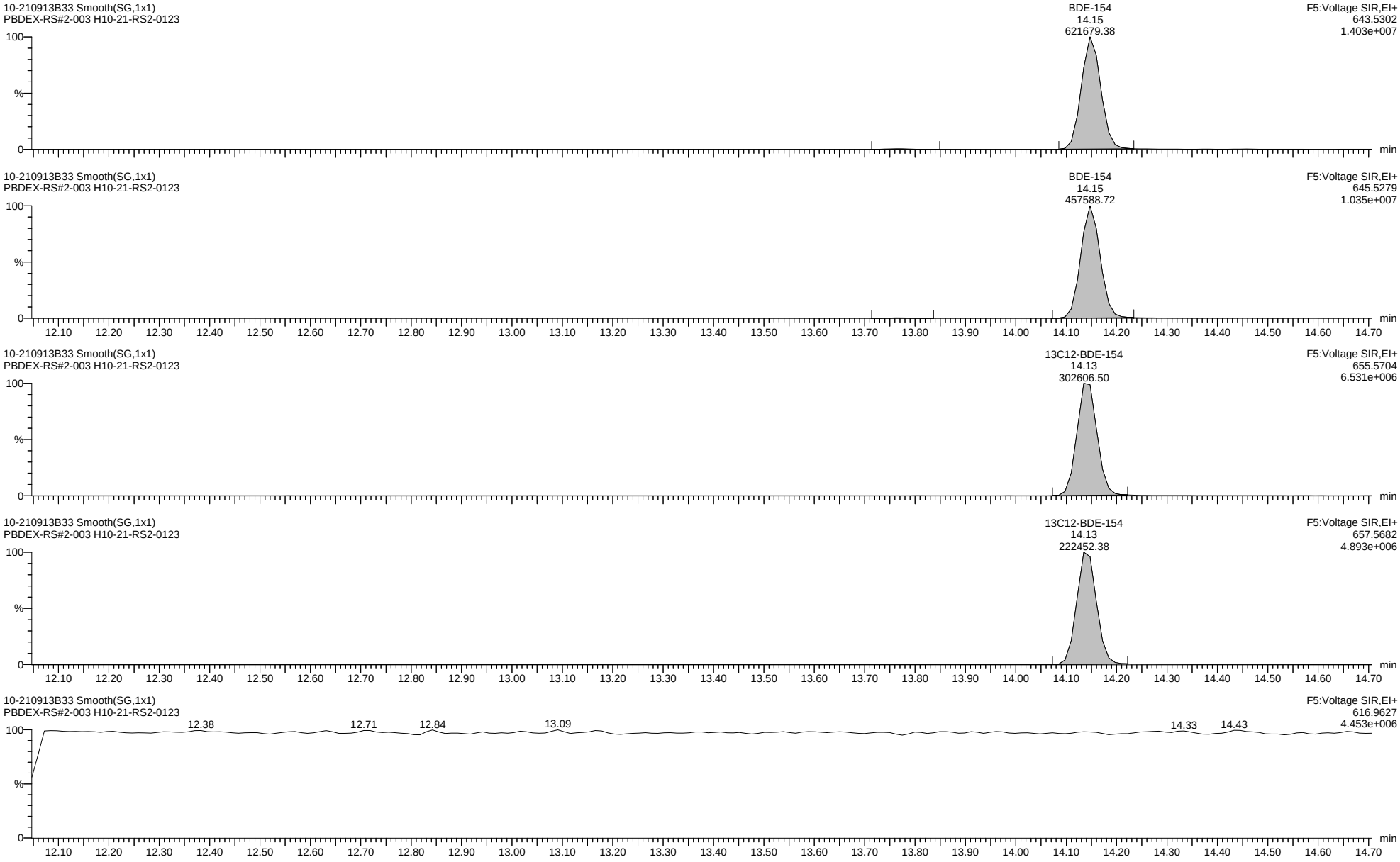

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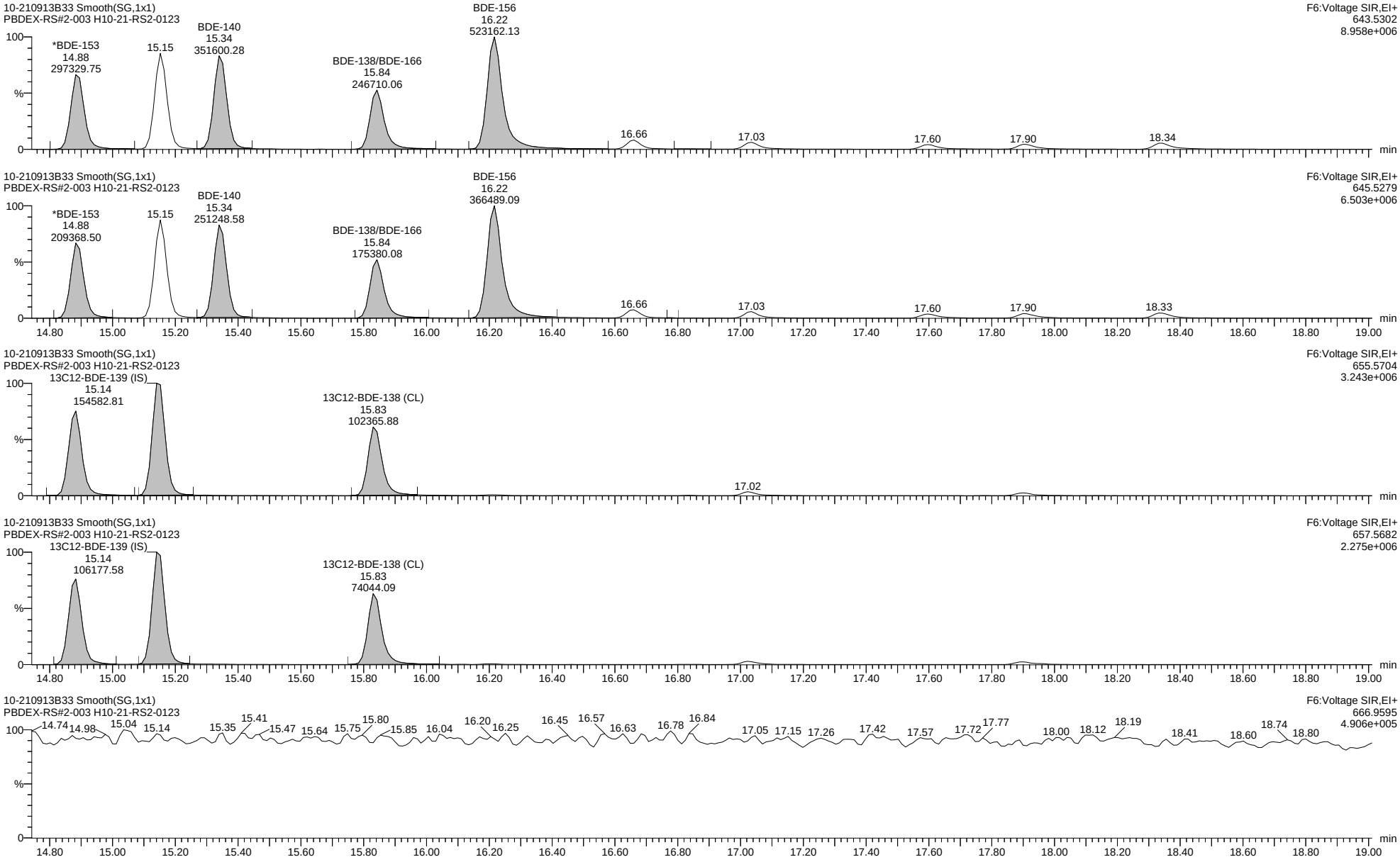

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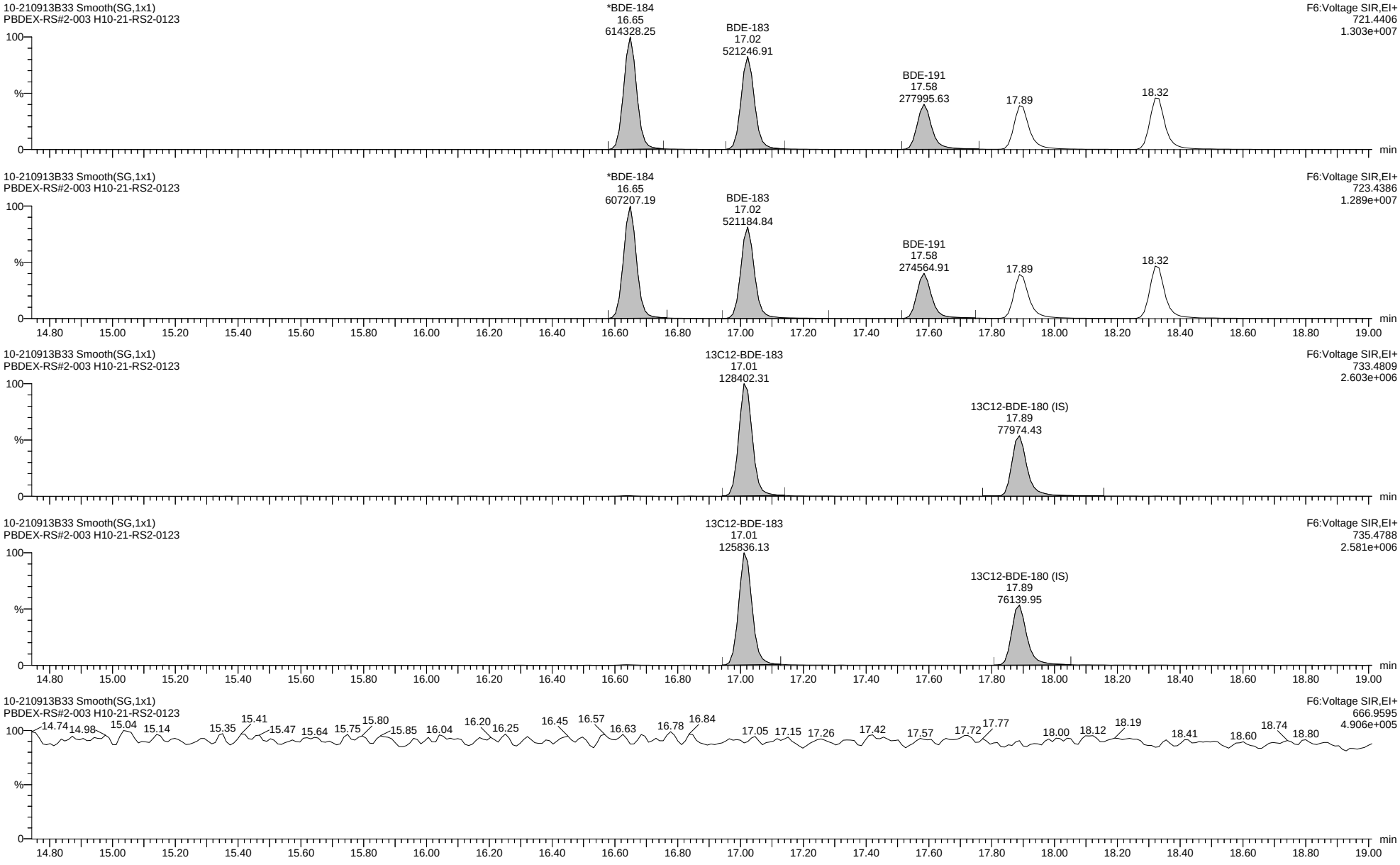

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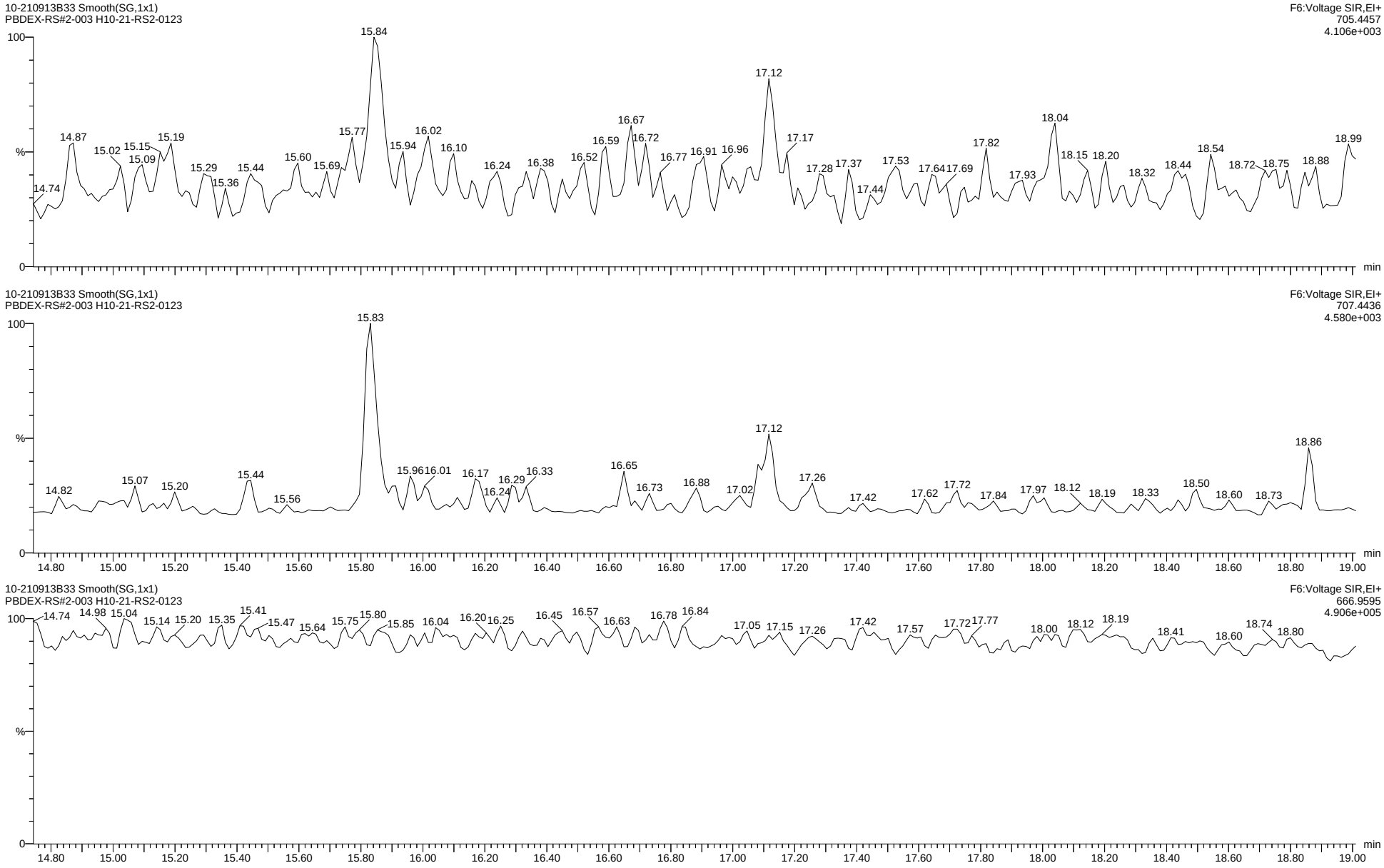

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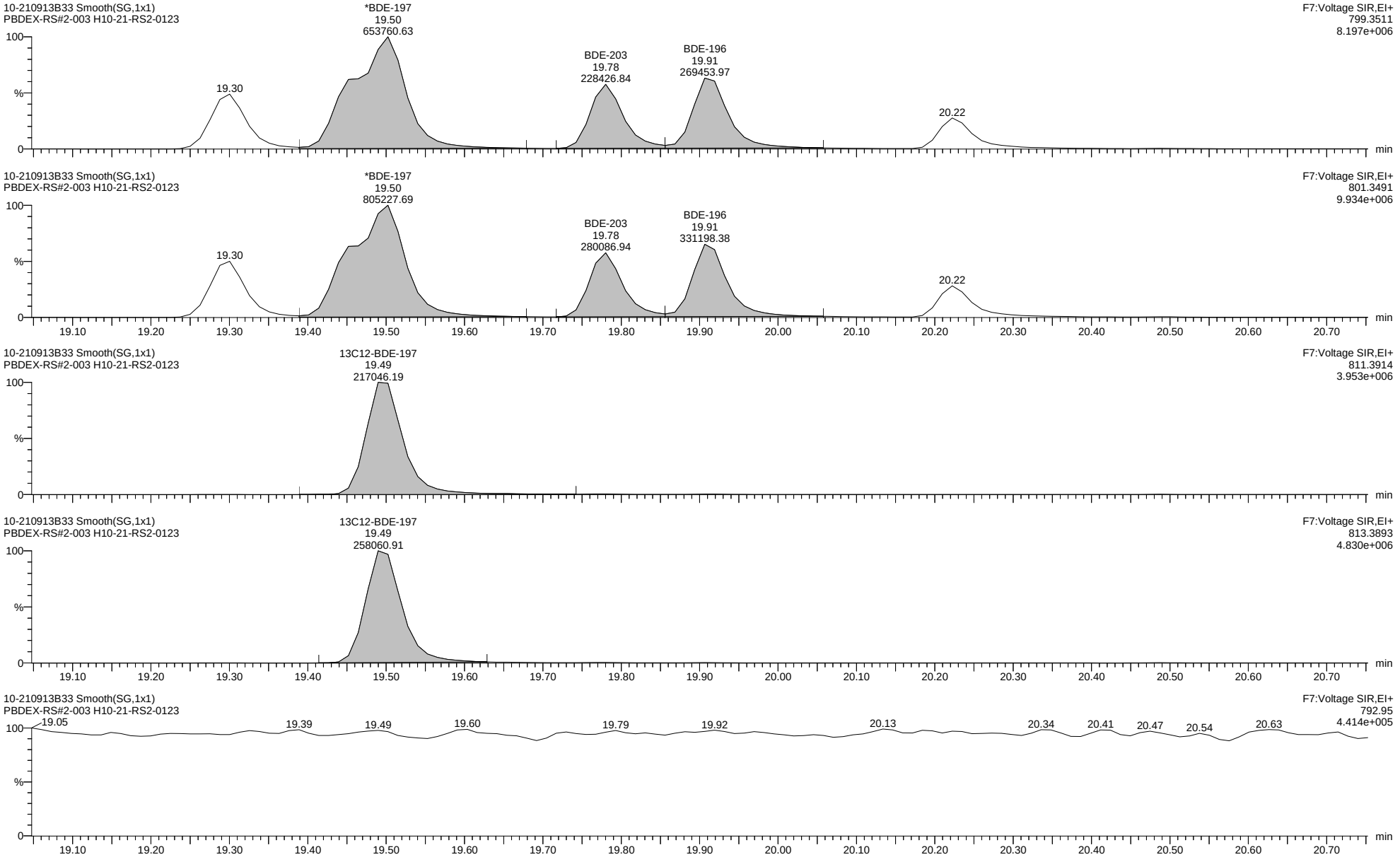

Quantify Sample Template Report **MassLynx MassLynx V4.1 SCN 901**

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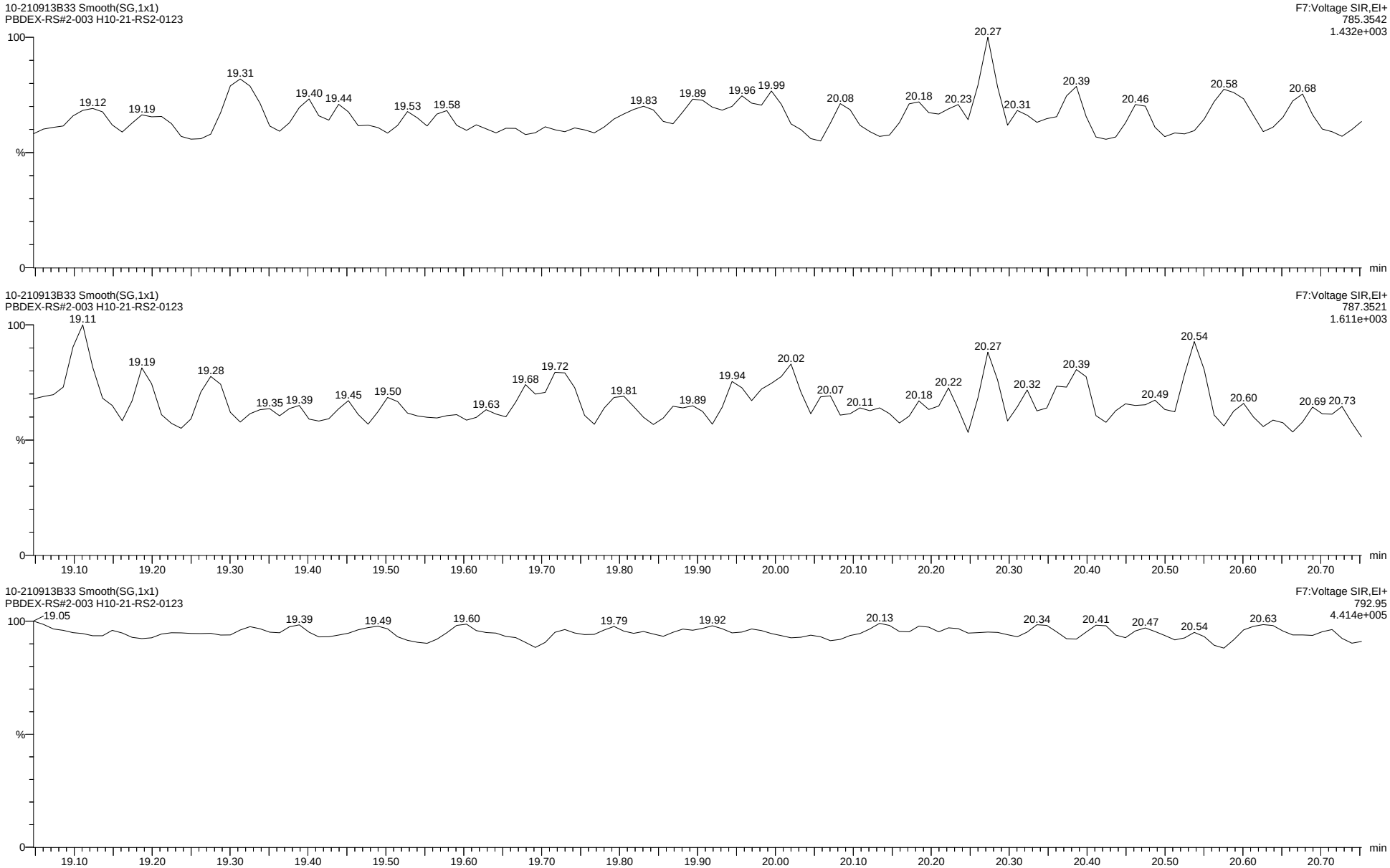

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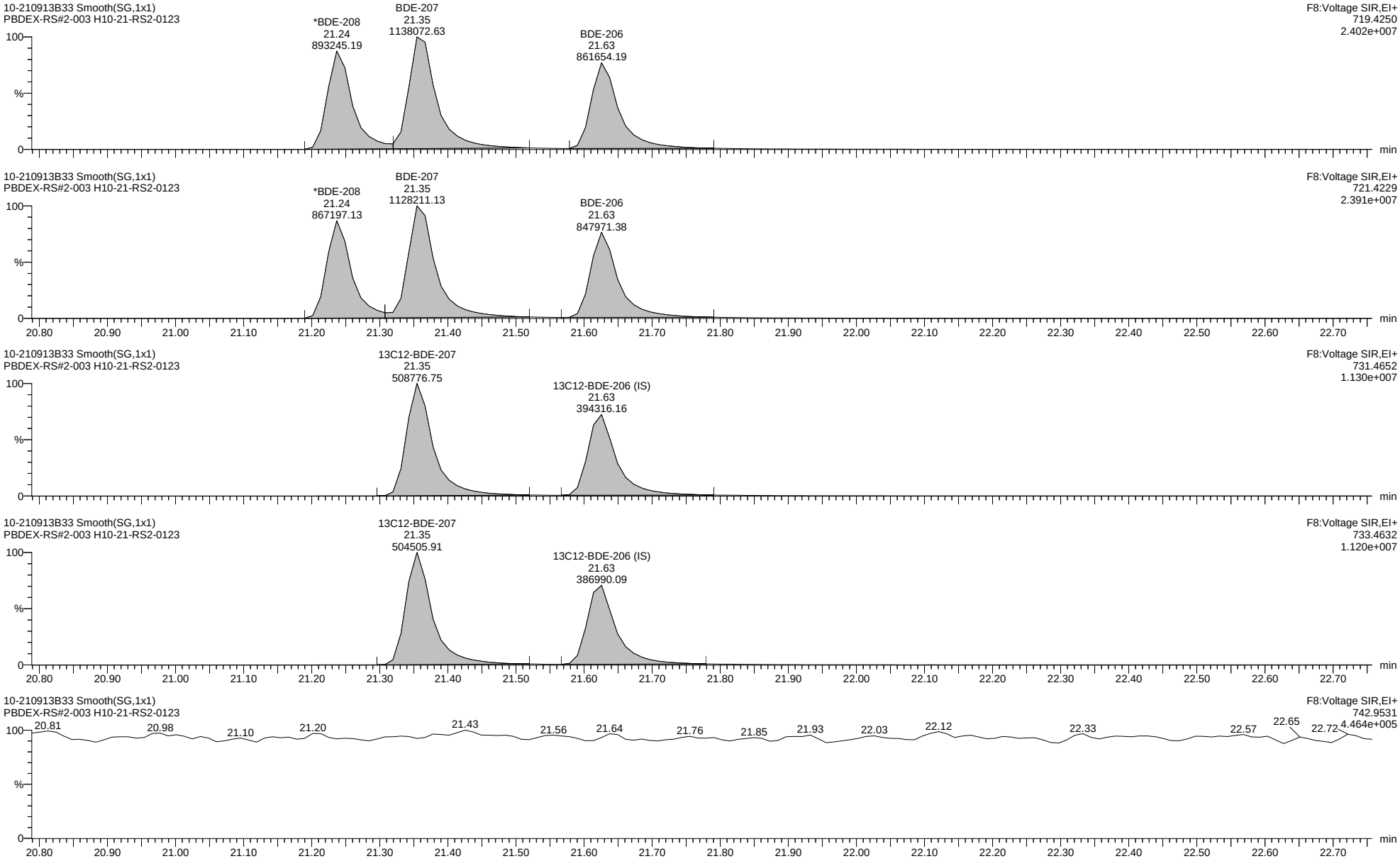

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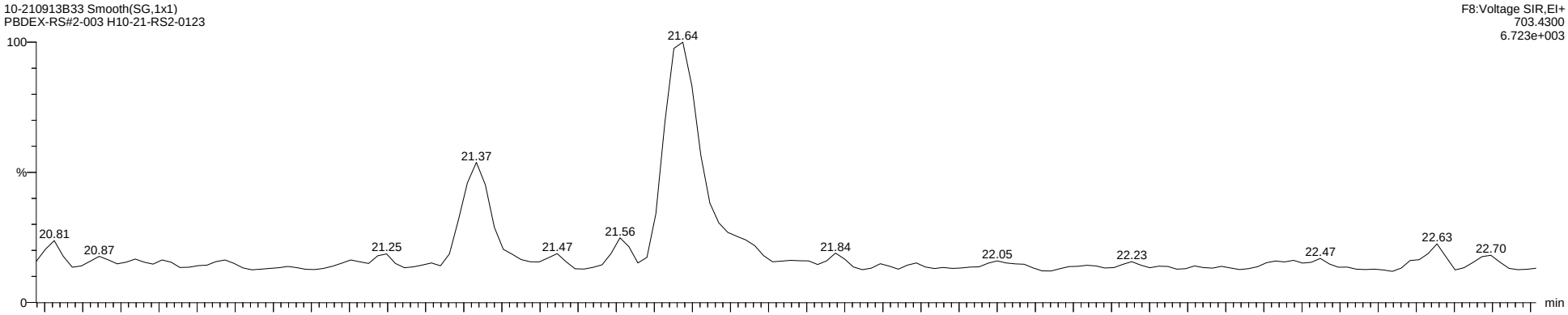

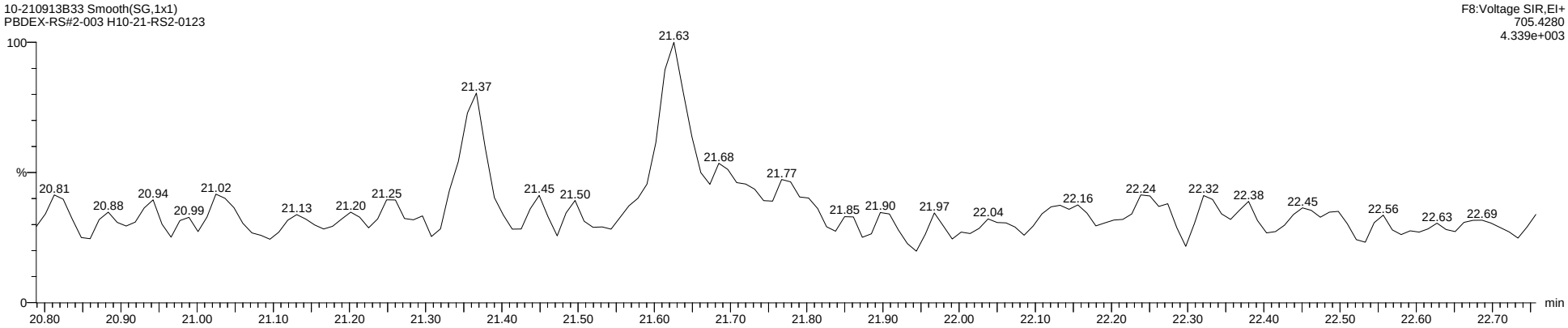

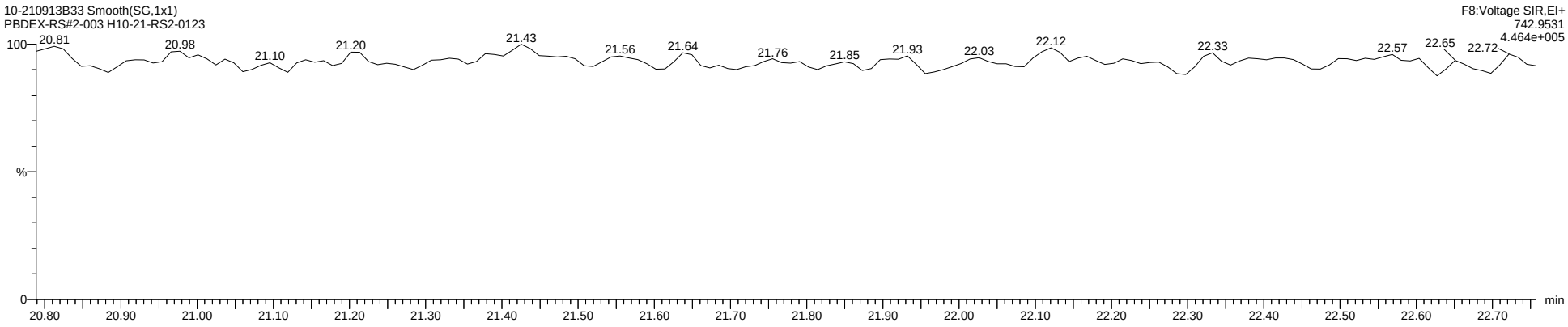

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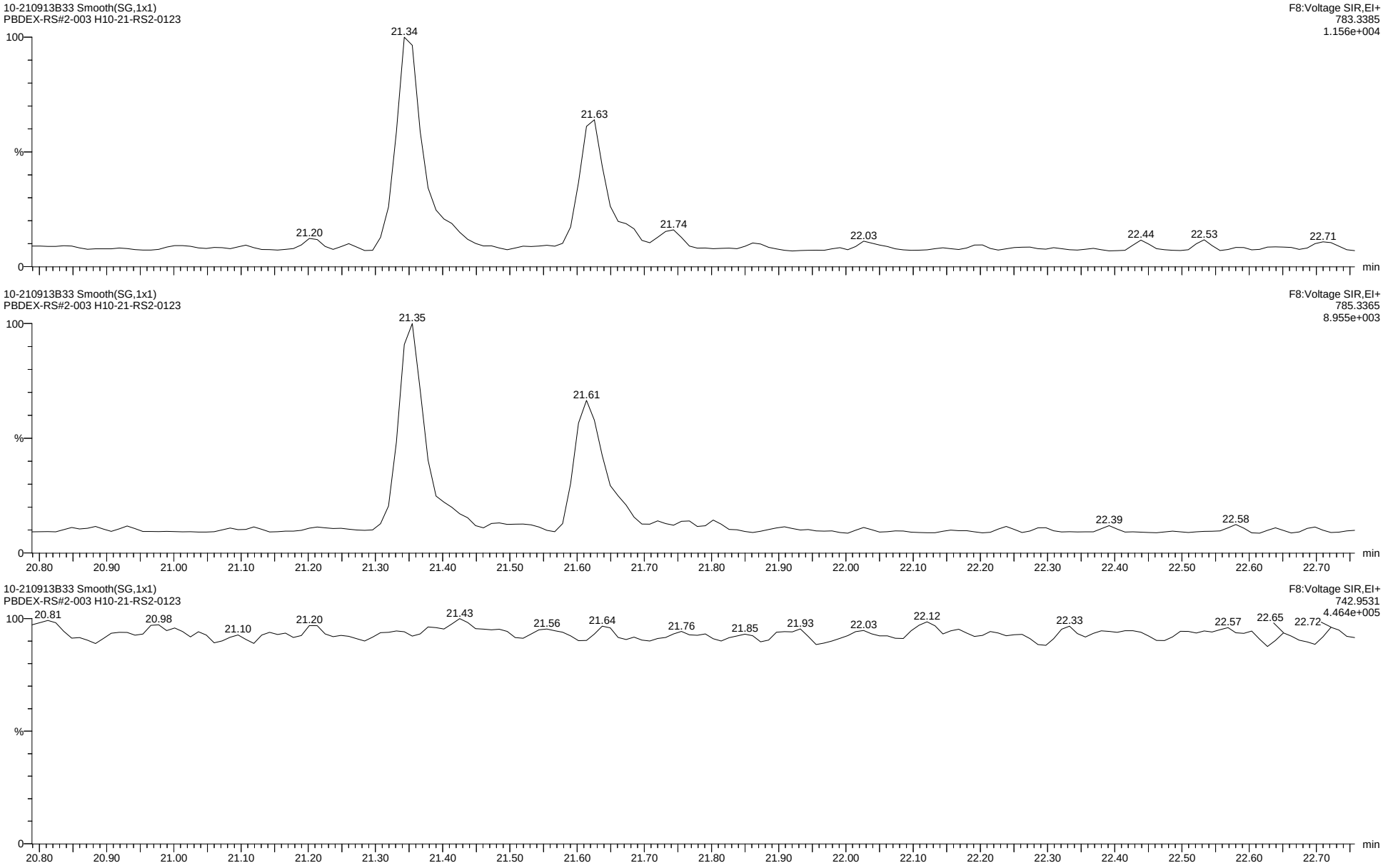

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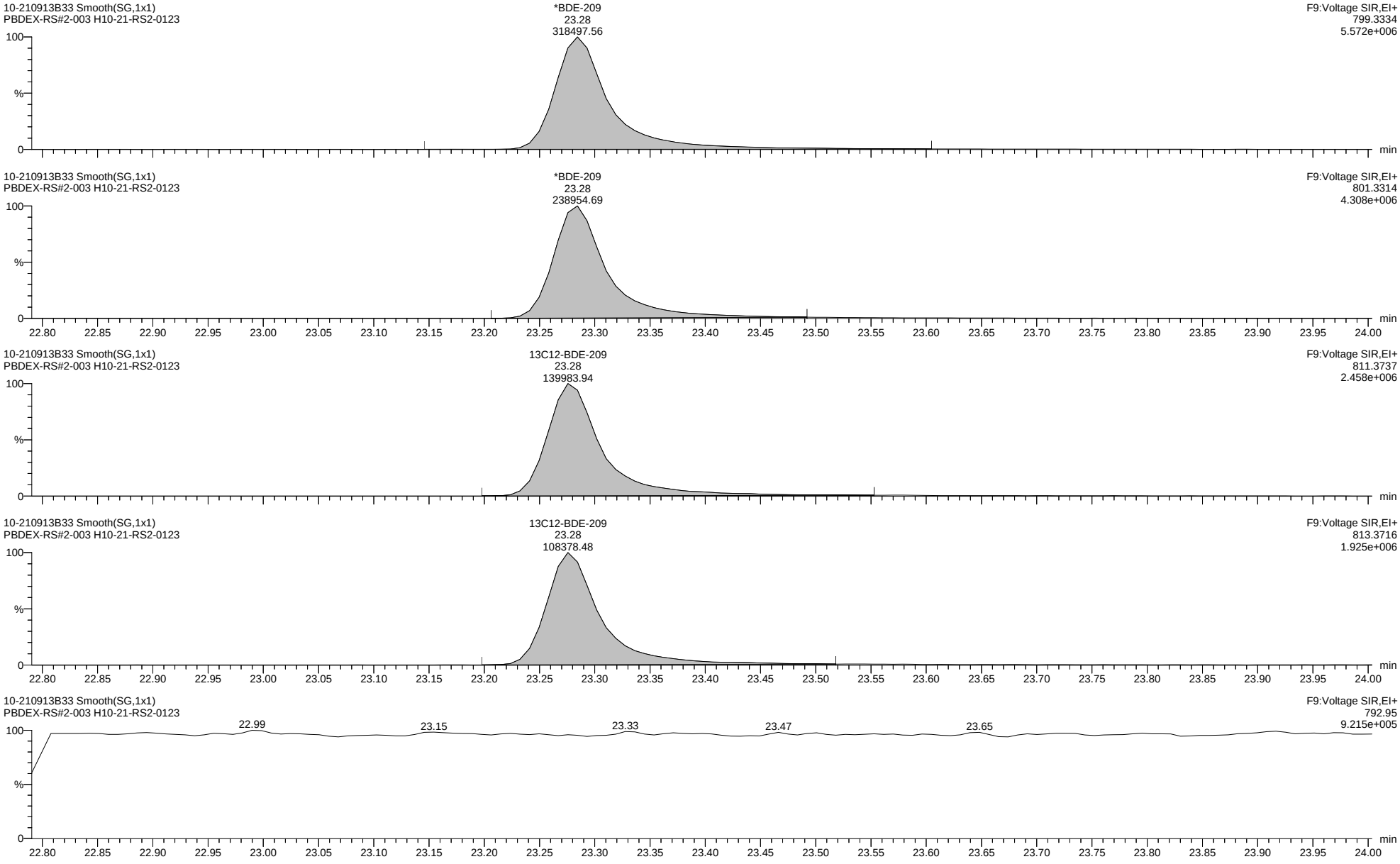

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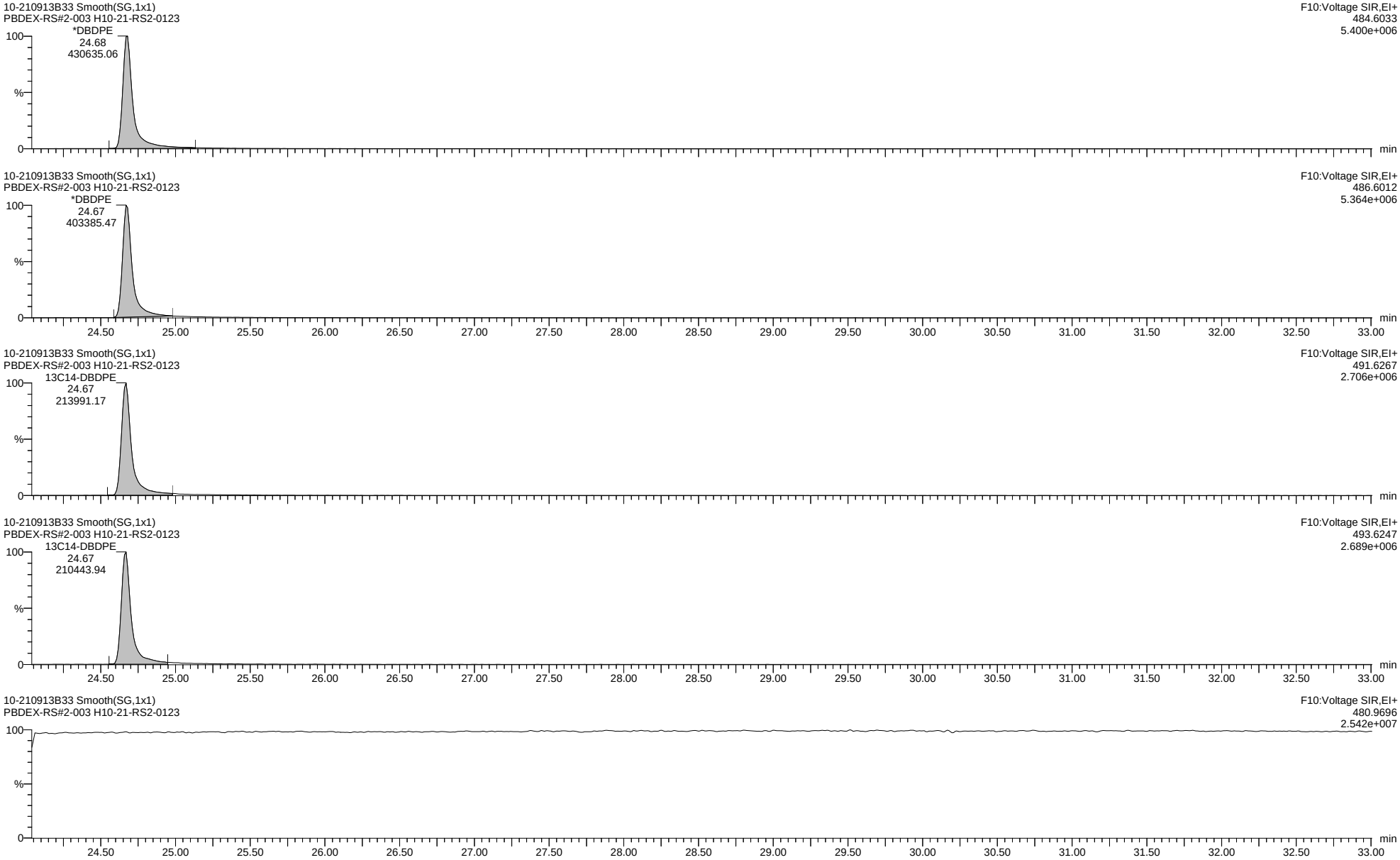

Quantify Sample Template Report **MassLynx MassLynx V4.1 SCN 901**

Dataset: I:\Organics Instrument\HIGHRES GCMS Completed Results Files\HR-10\2021\2109\10-210913B-Q2-PBDE.qld

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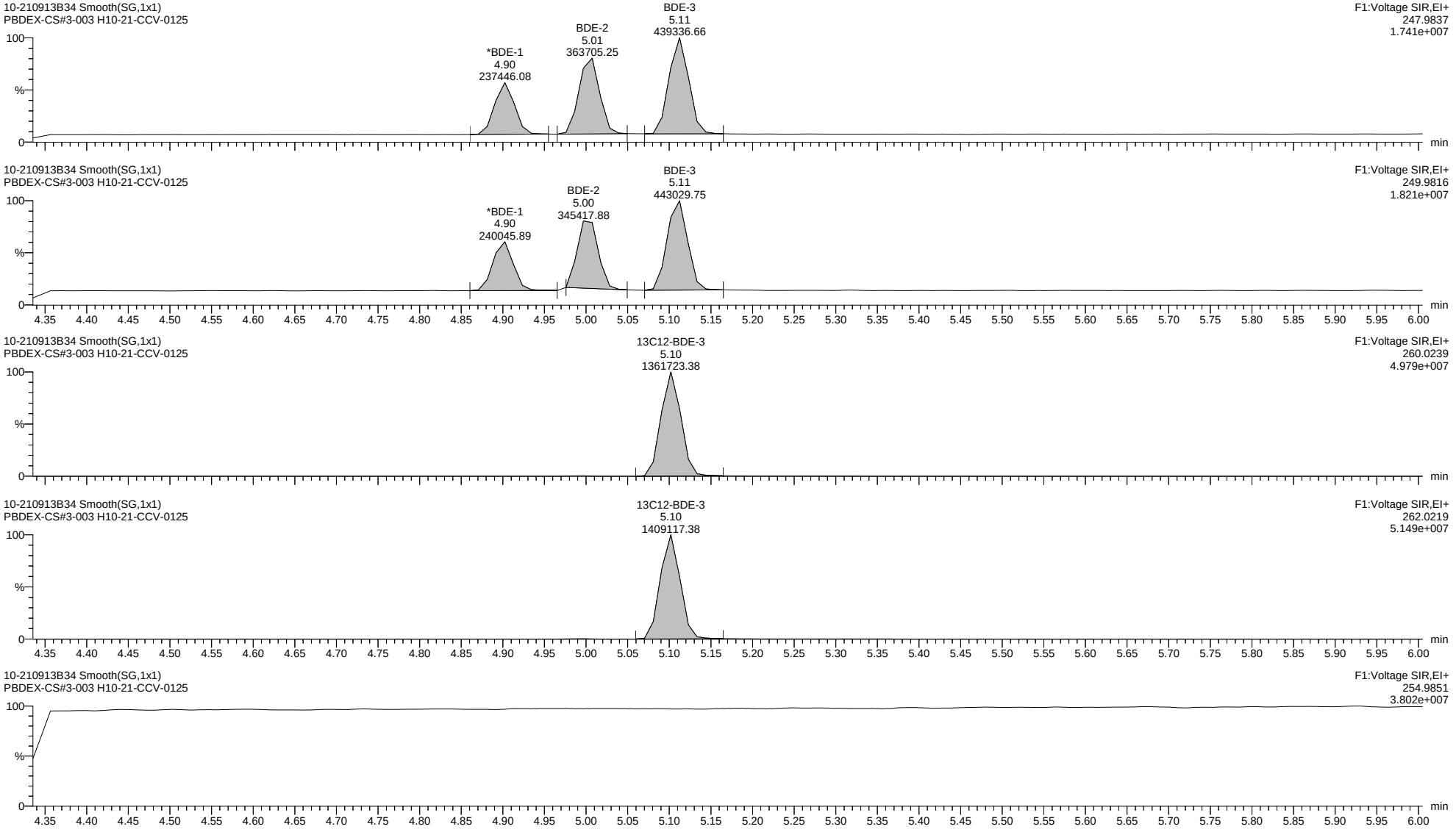

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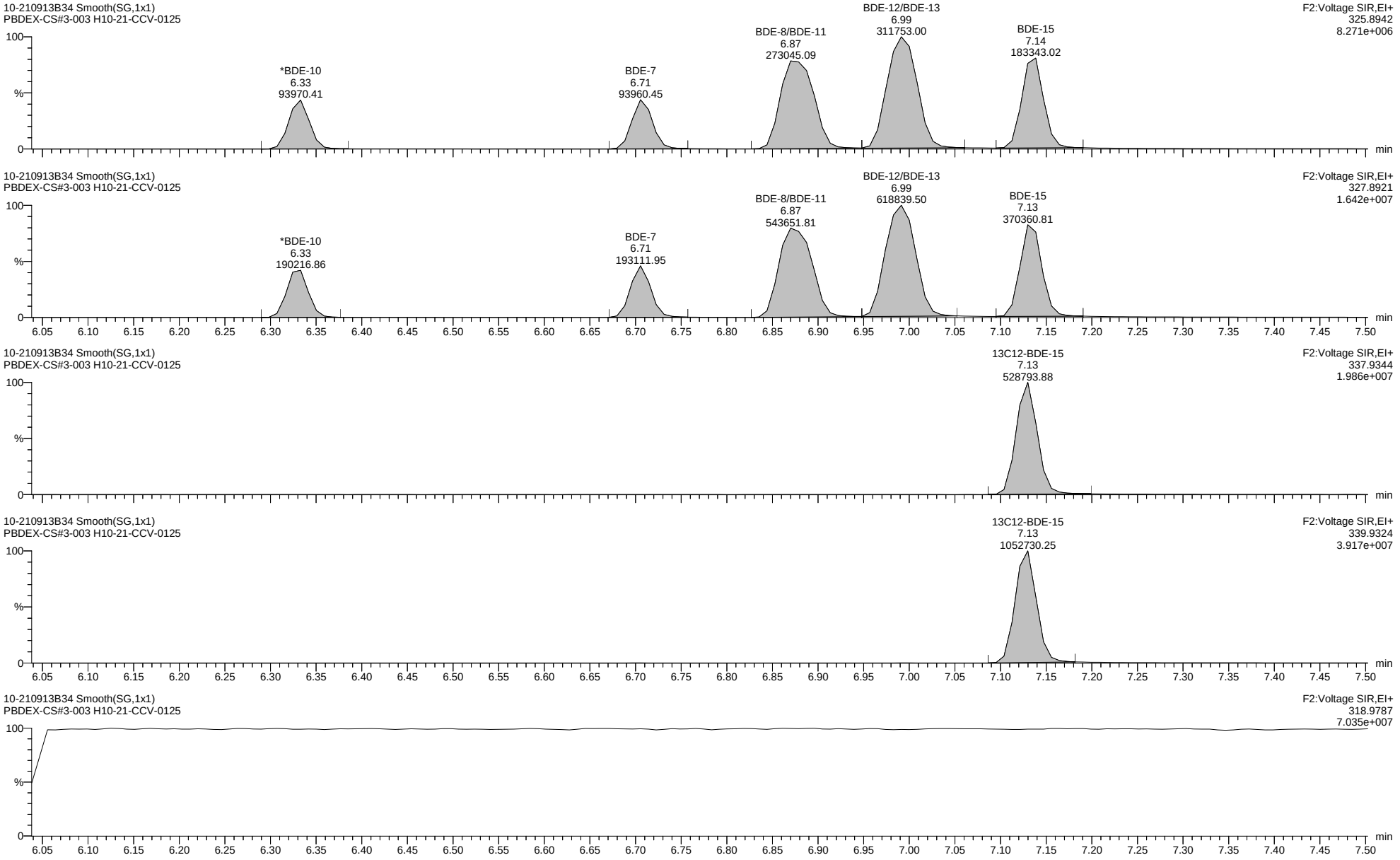

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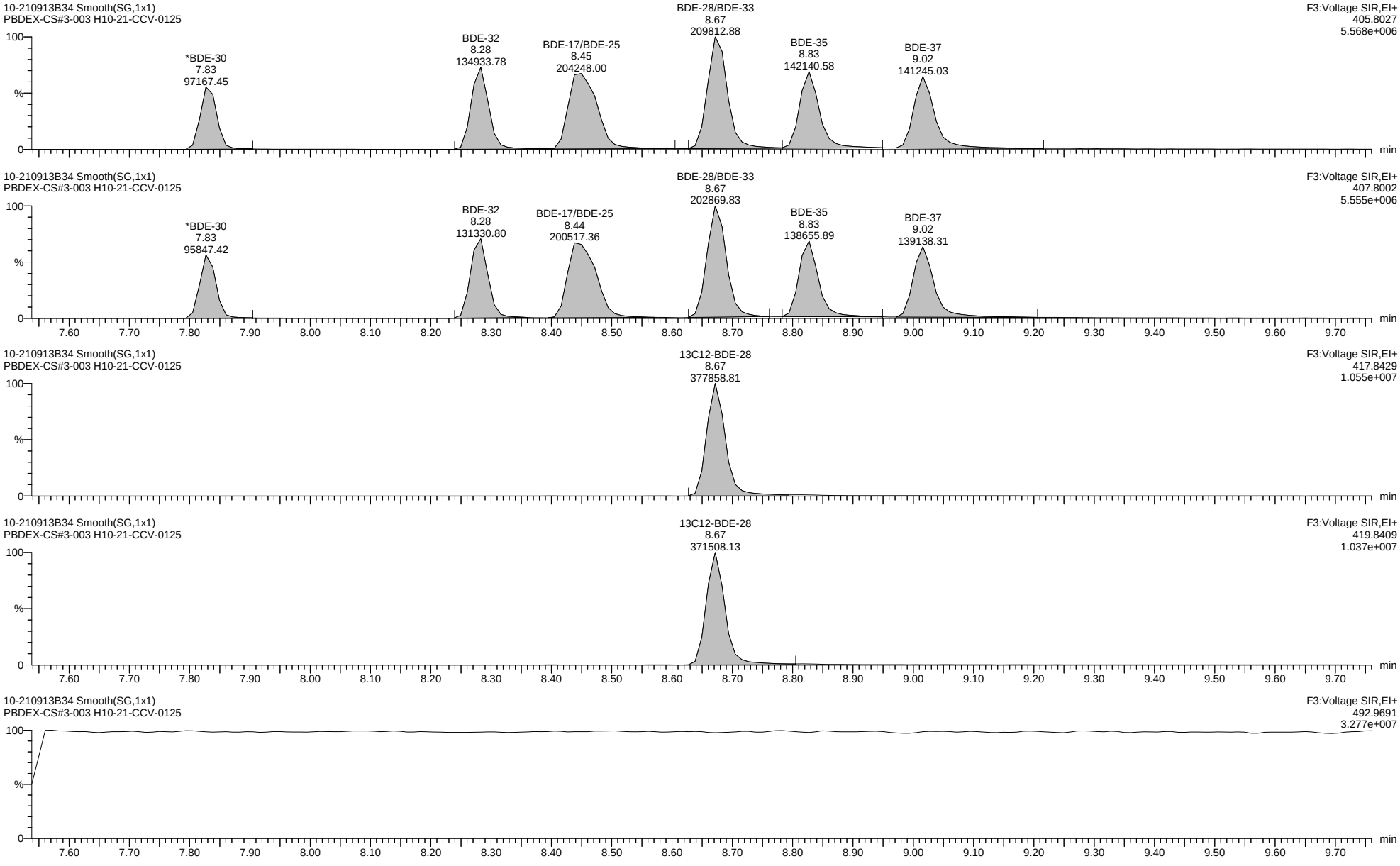

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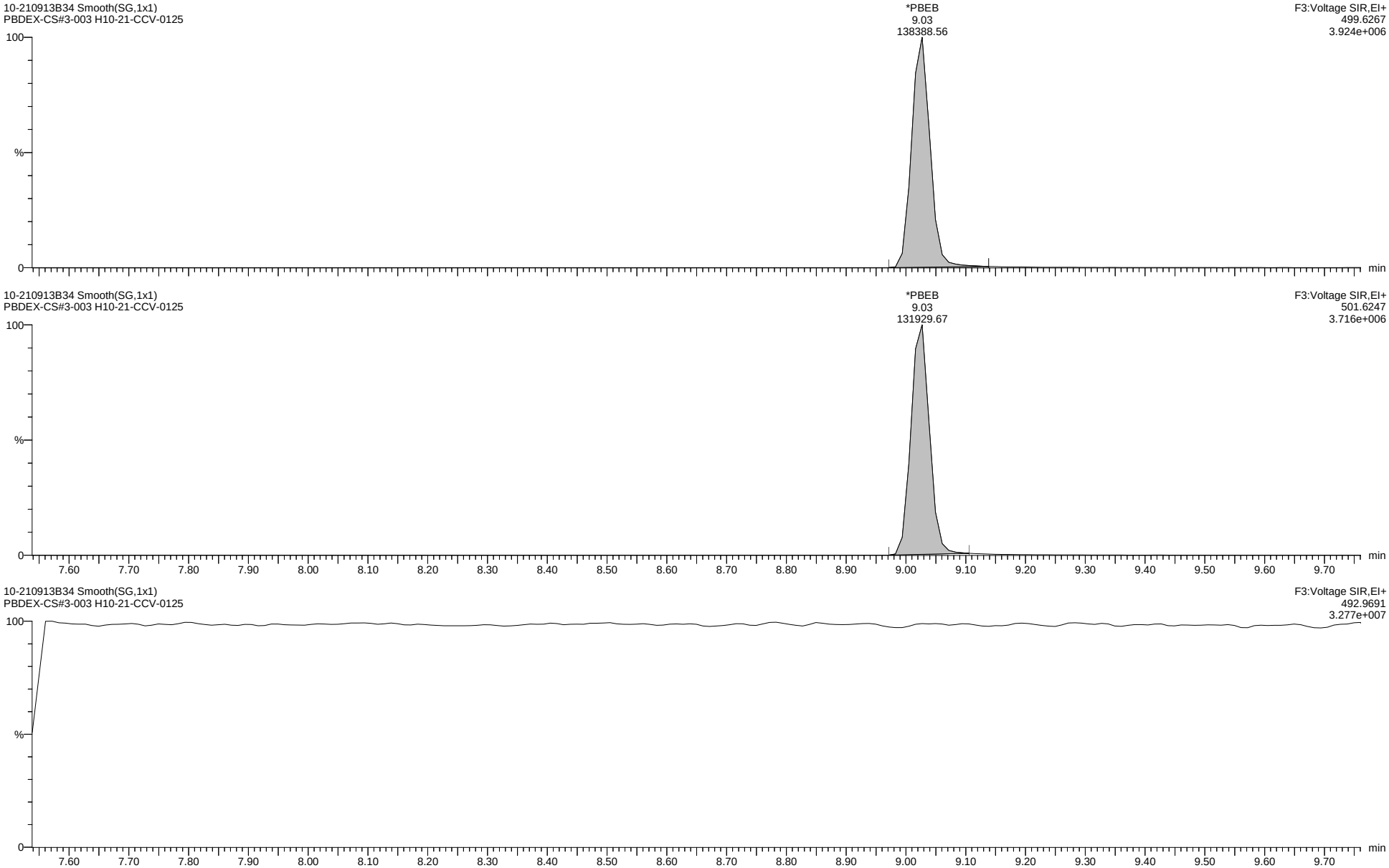

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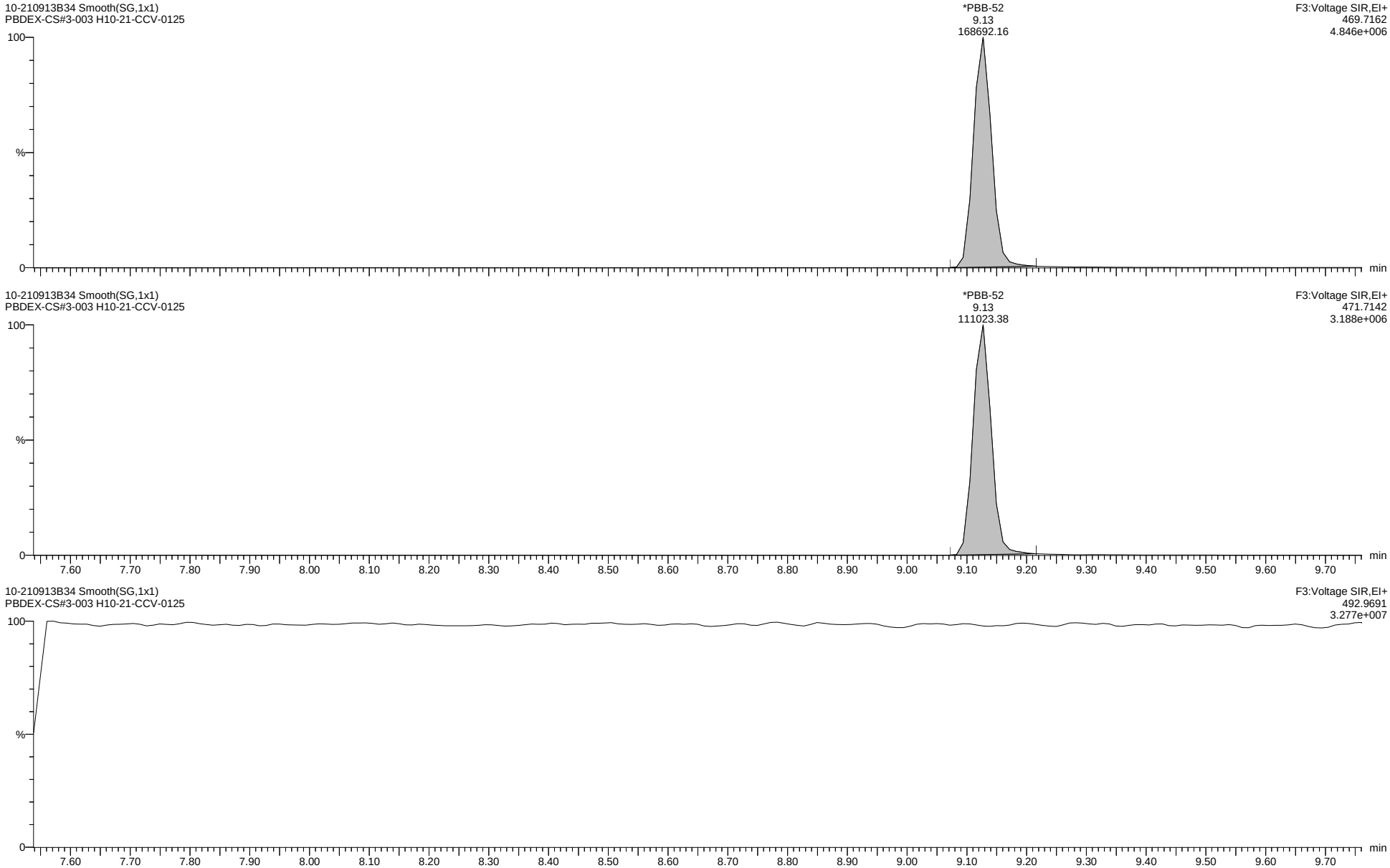

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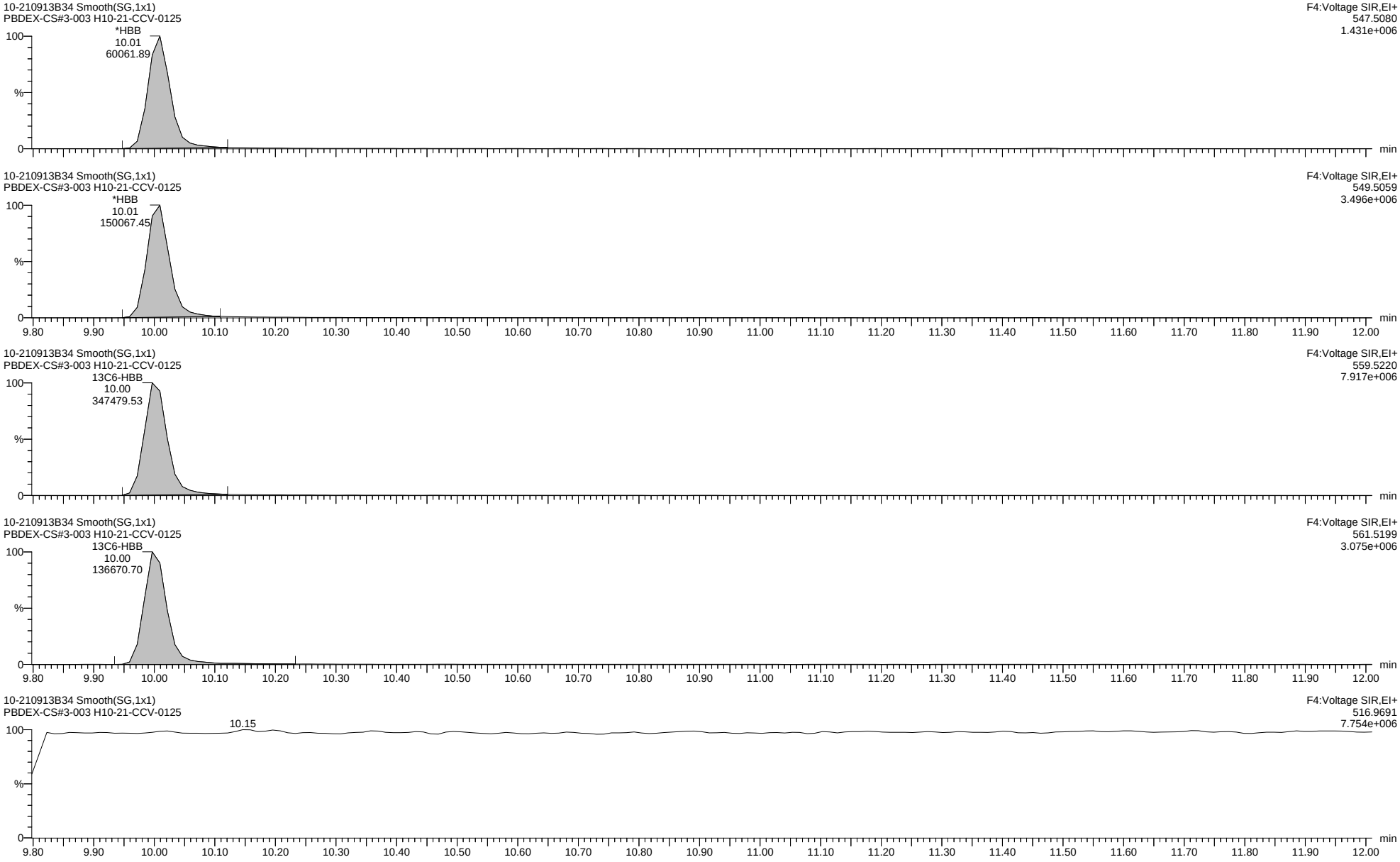

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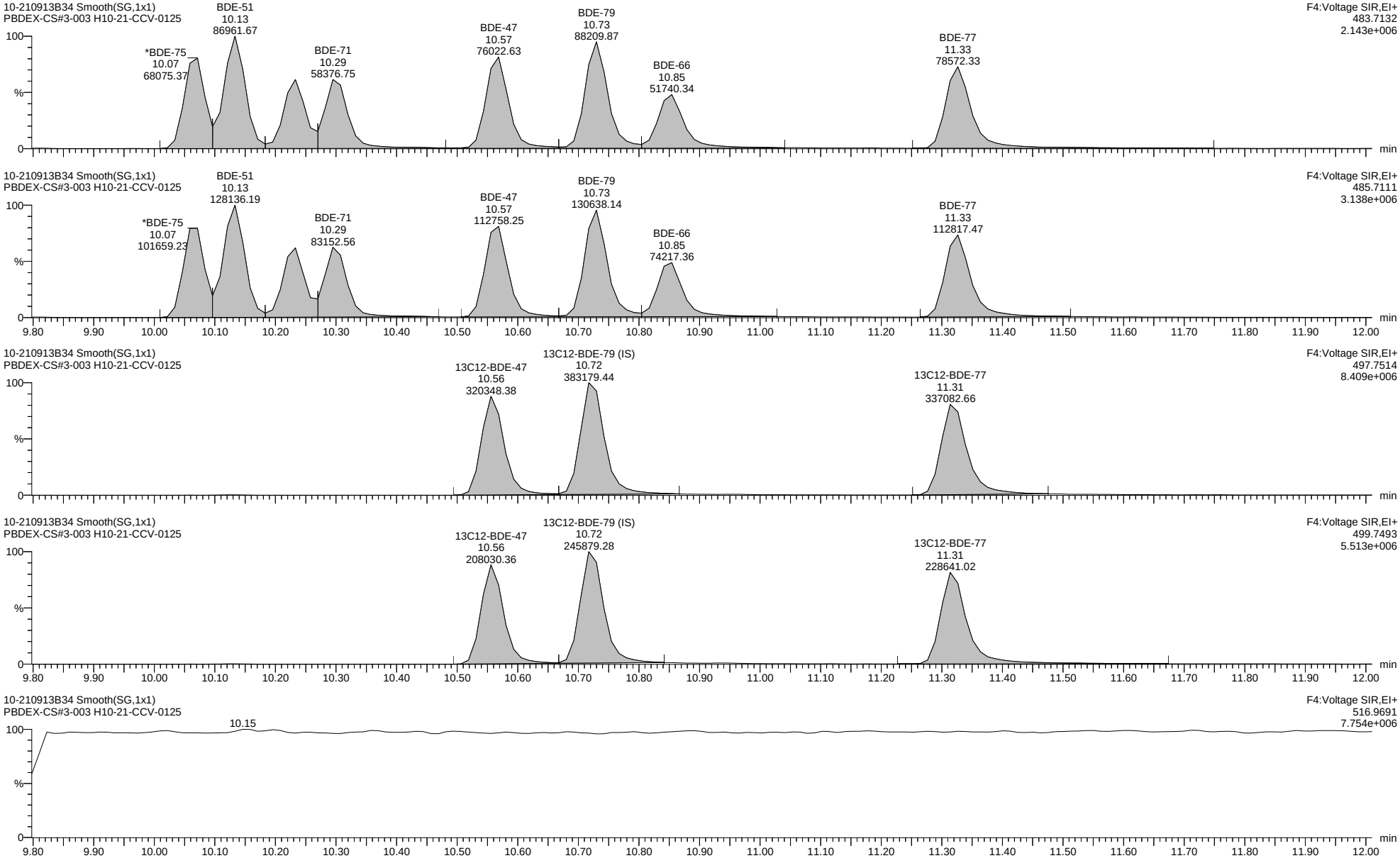

Quantify Sample Template Report **MassLynx MassLynx V4.1 SCN 901**

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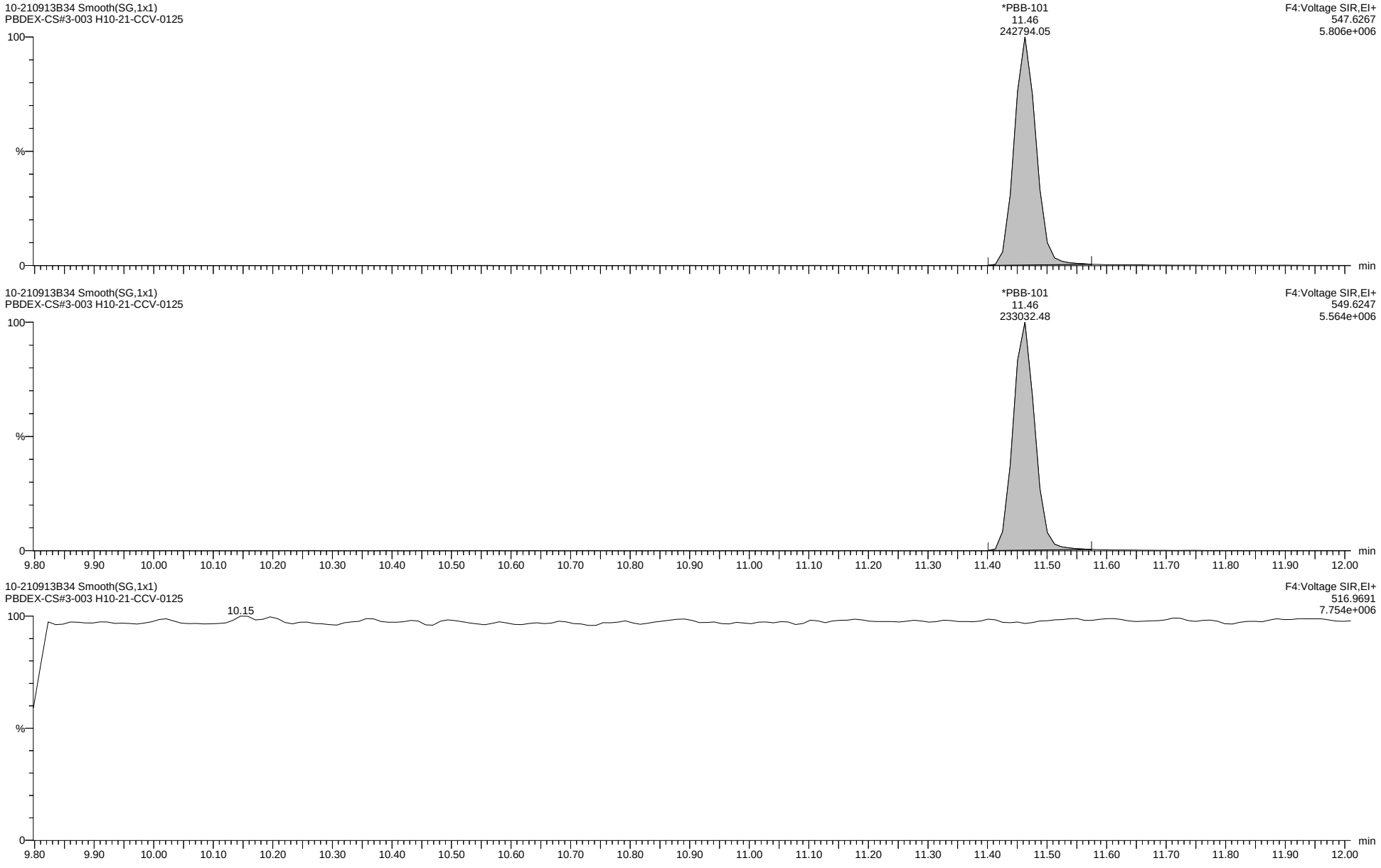

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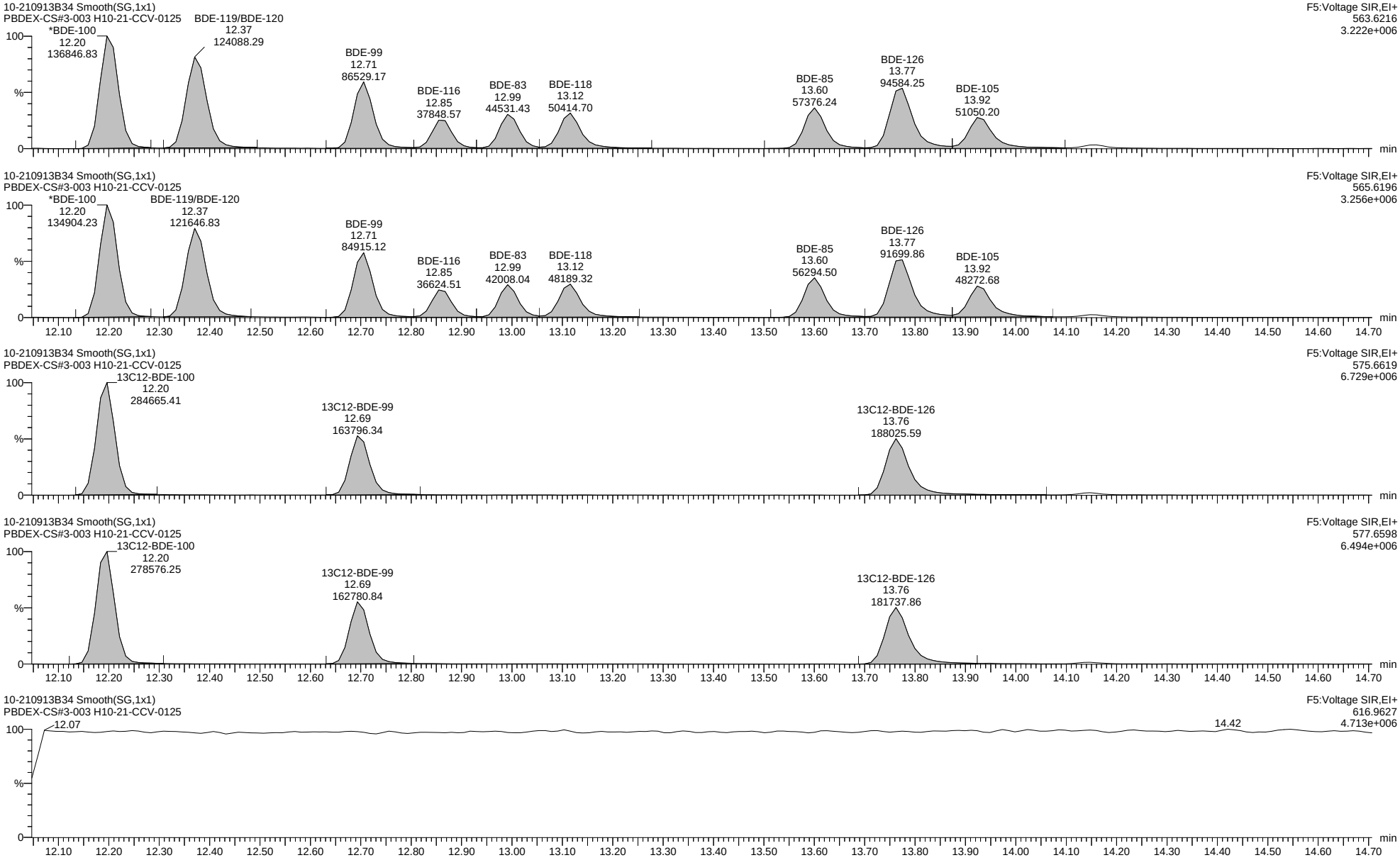

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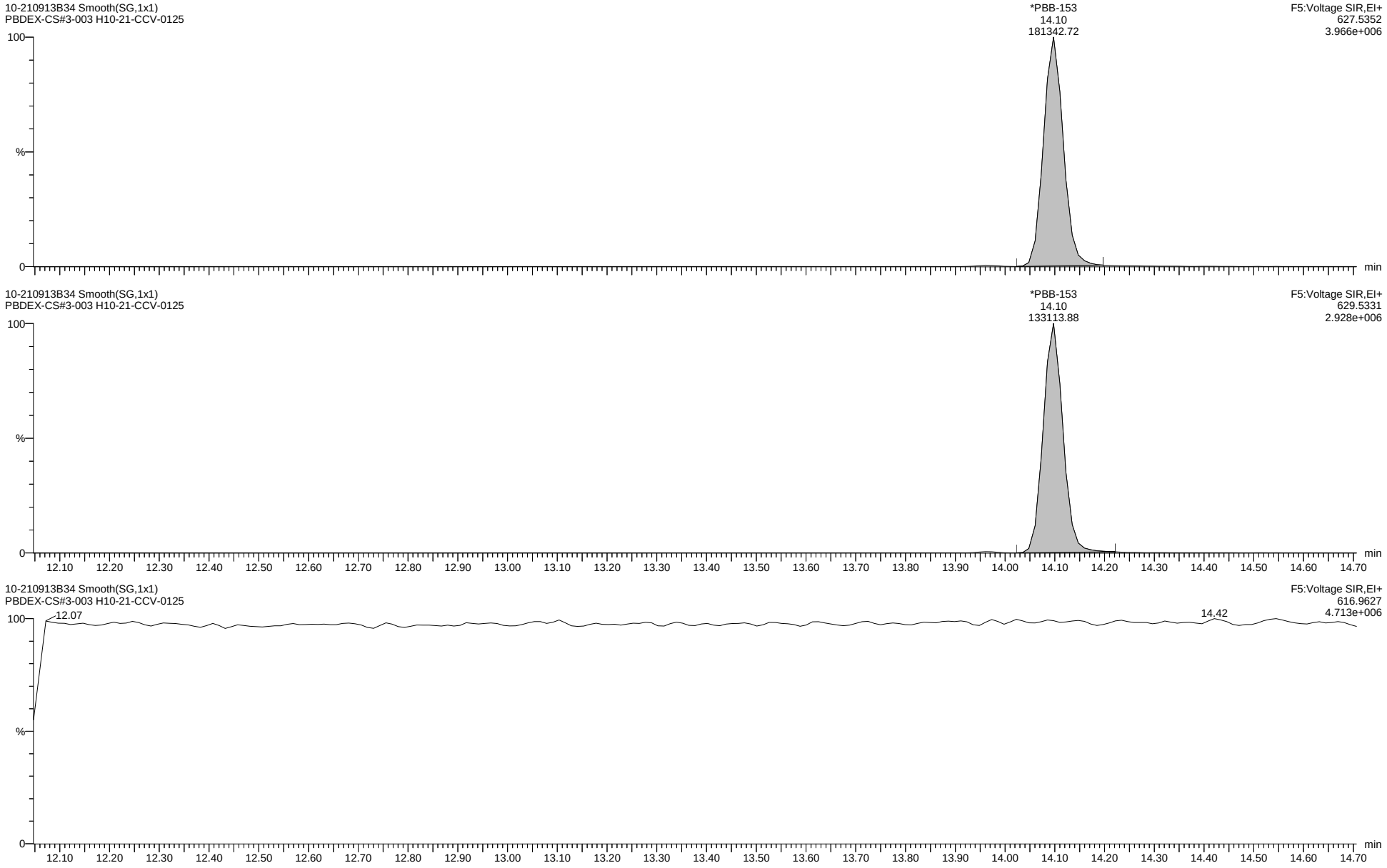

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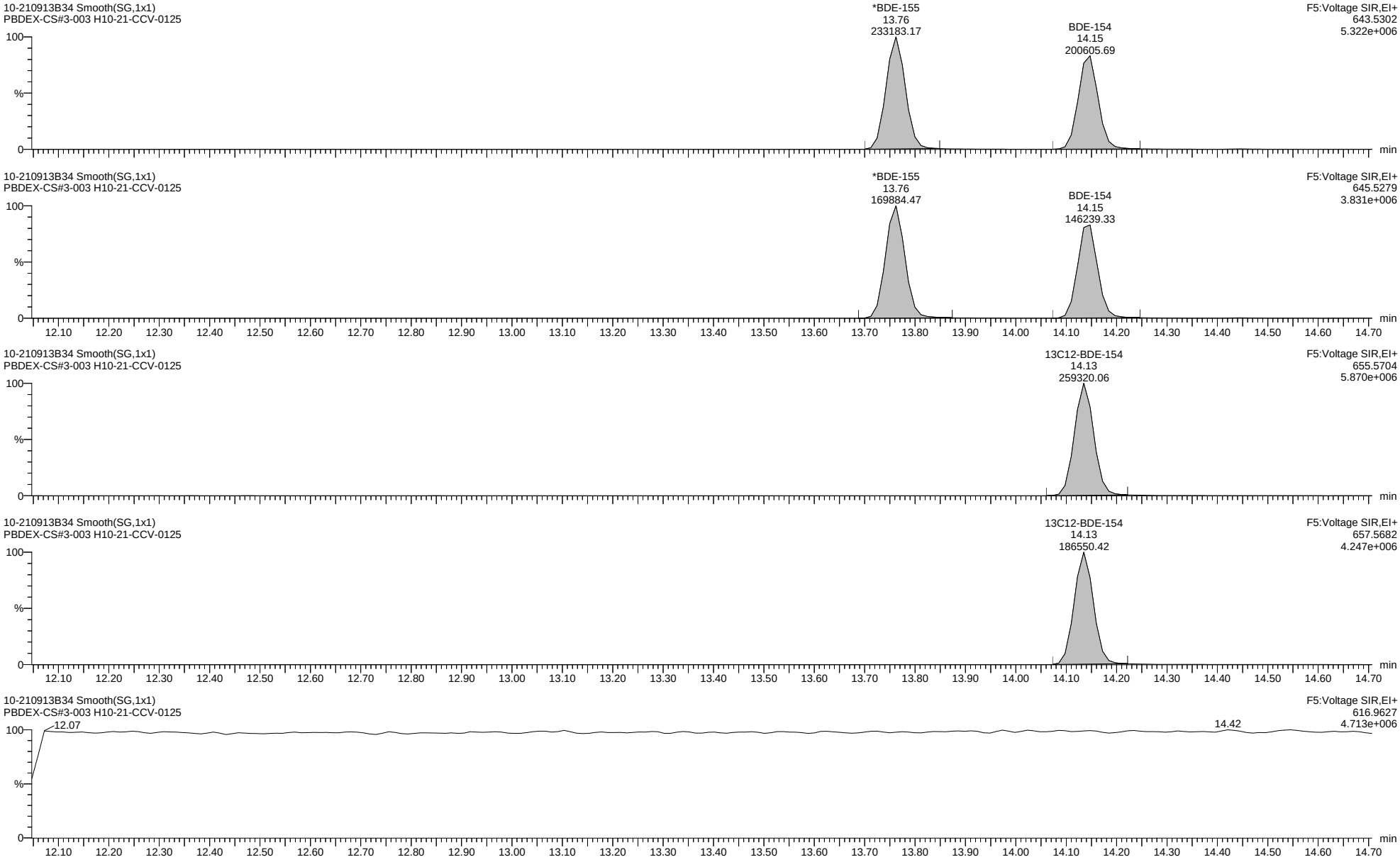

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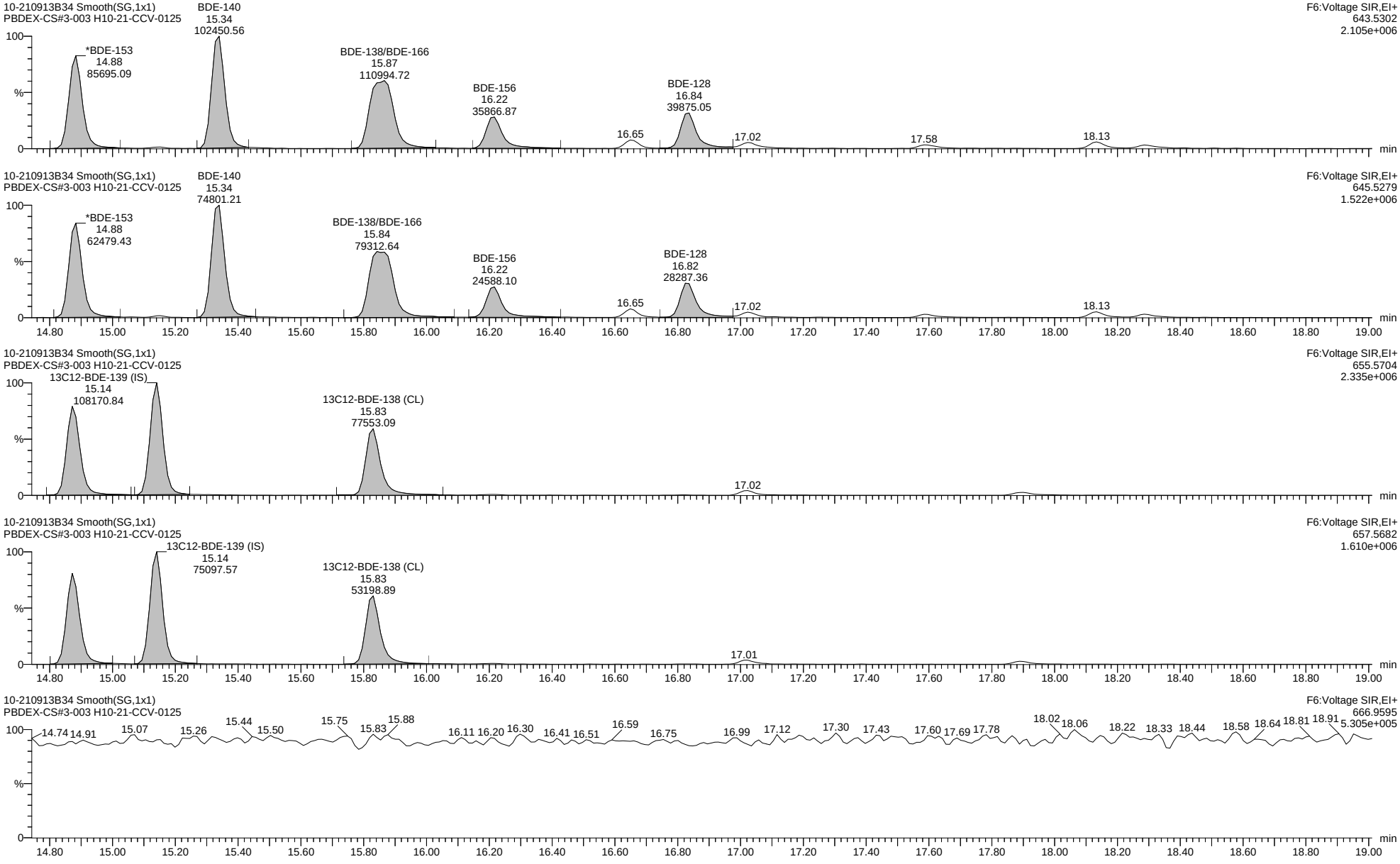

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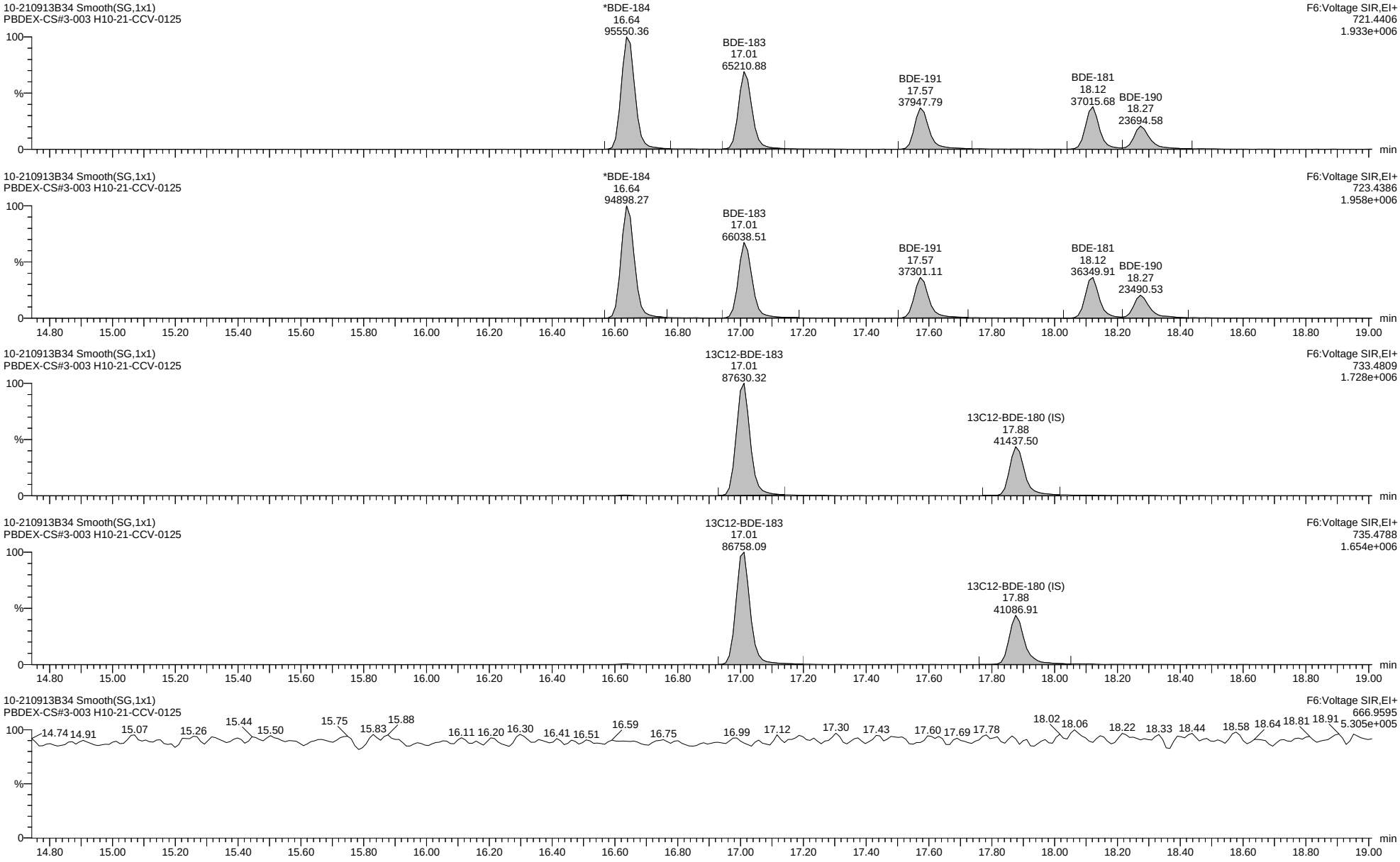

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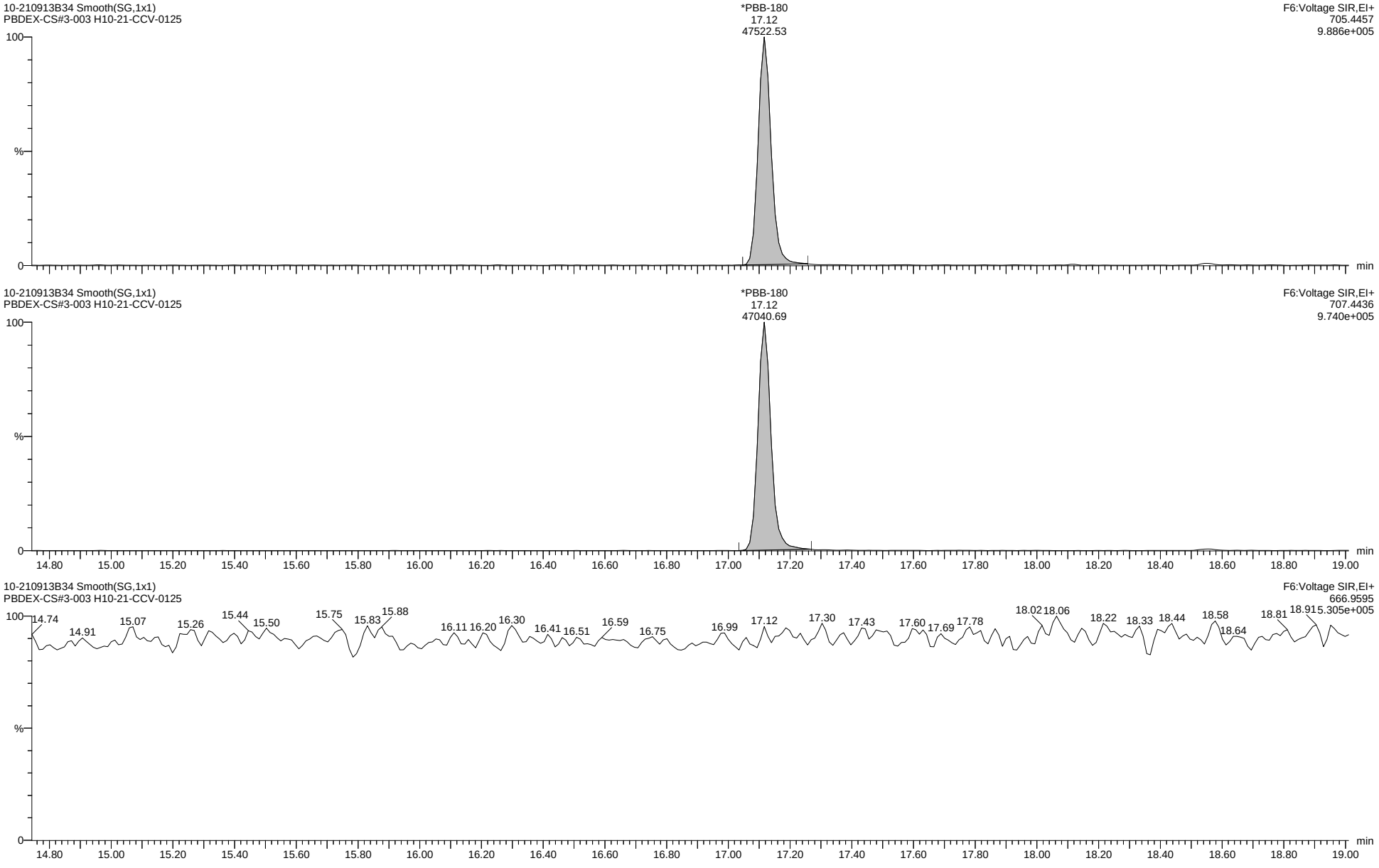

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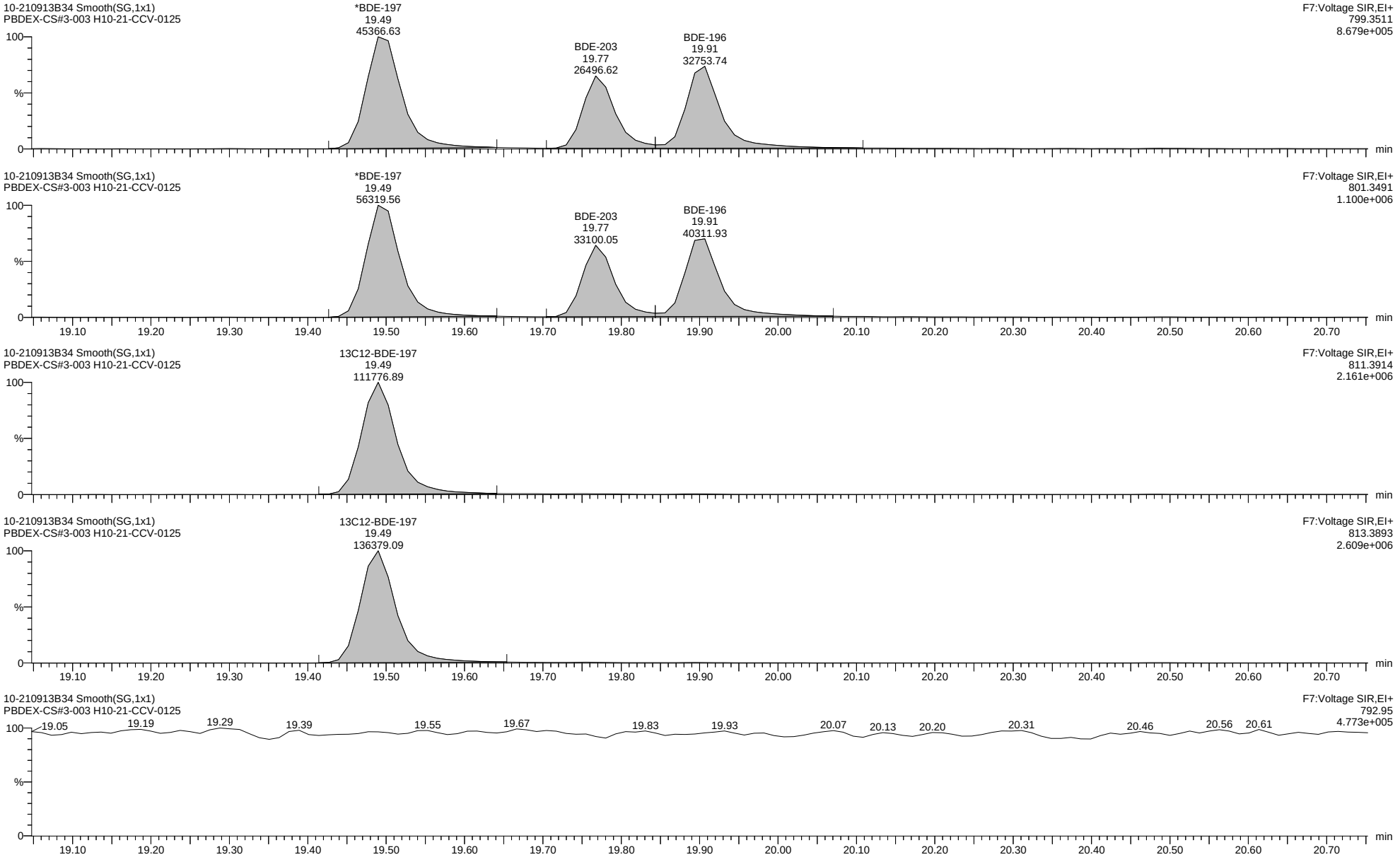

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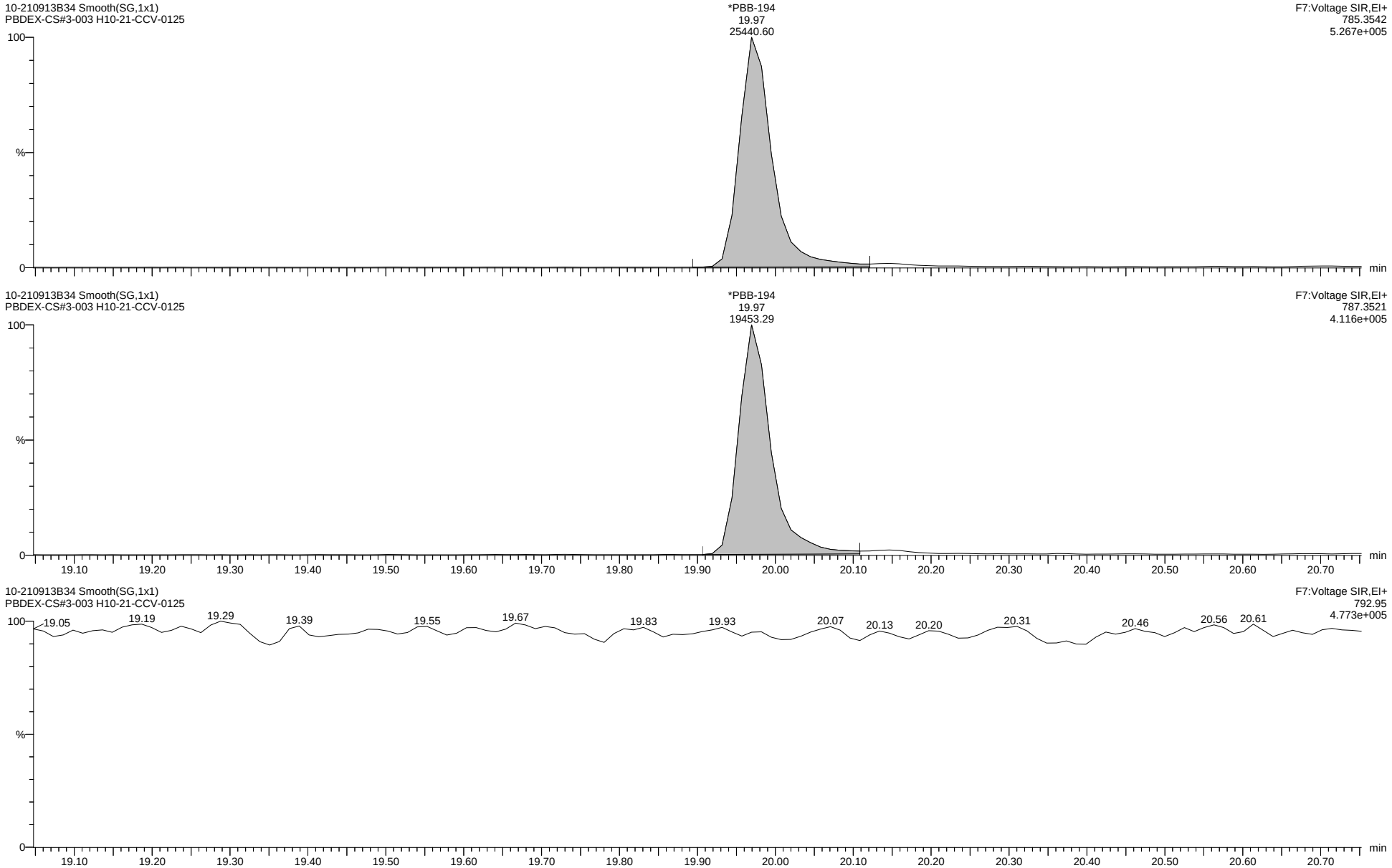

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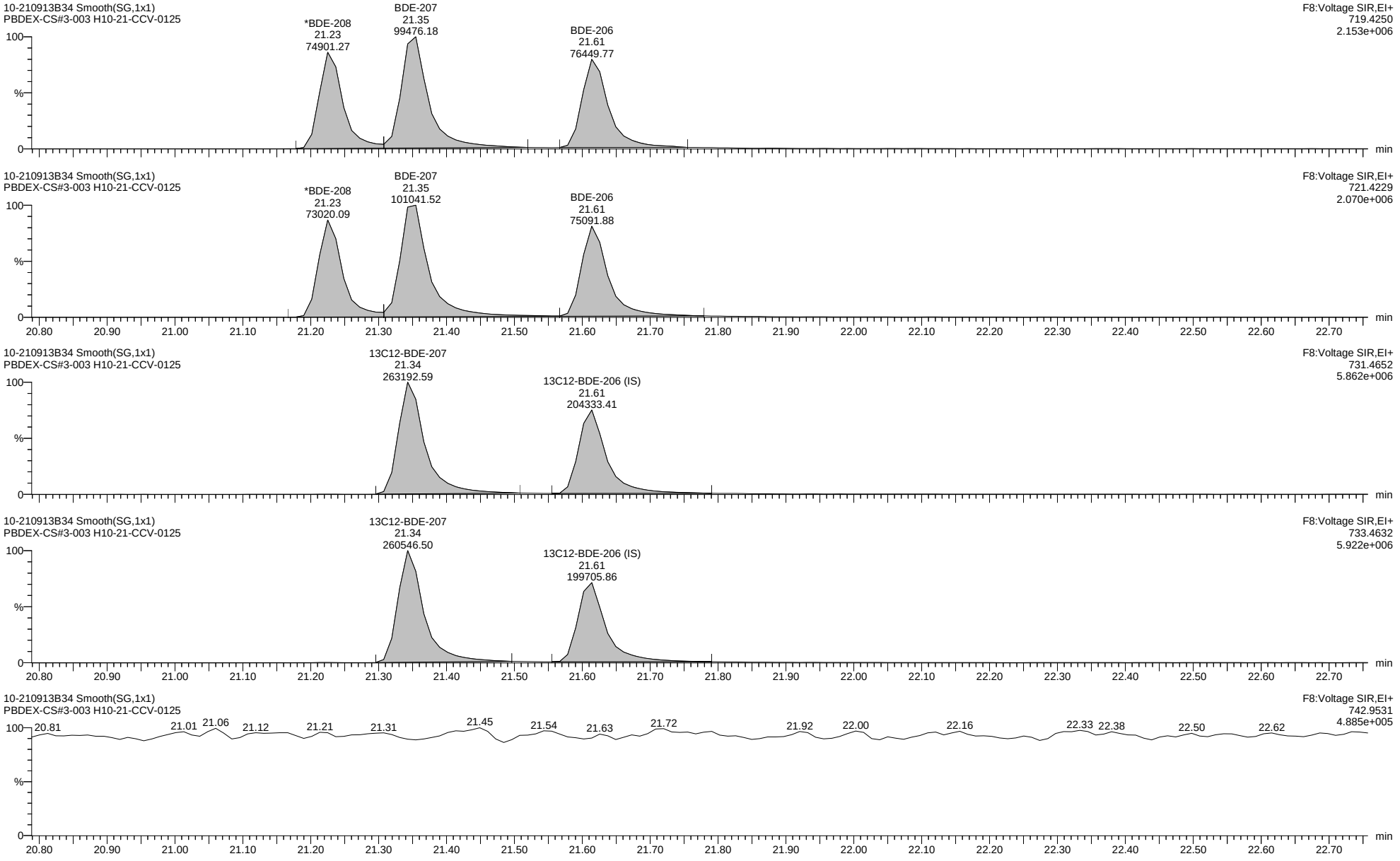

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Printed: Friday, September 17, 2021 10:47:47 Eastern Daylight Time

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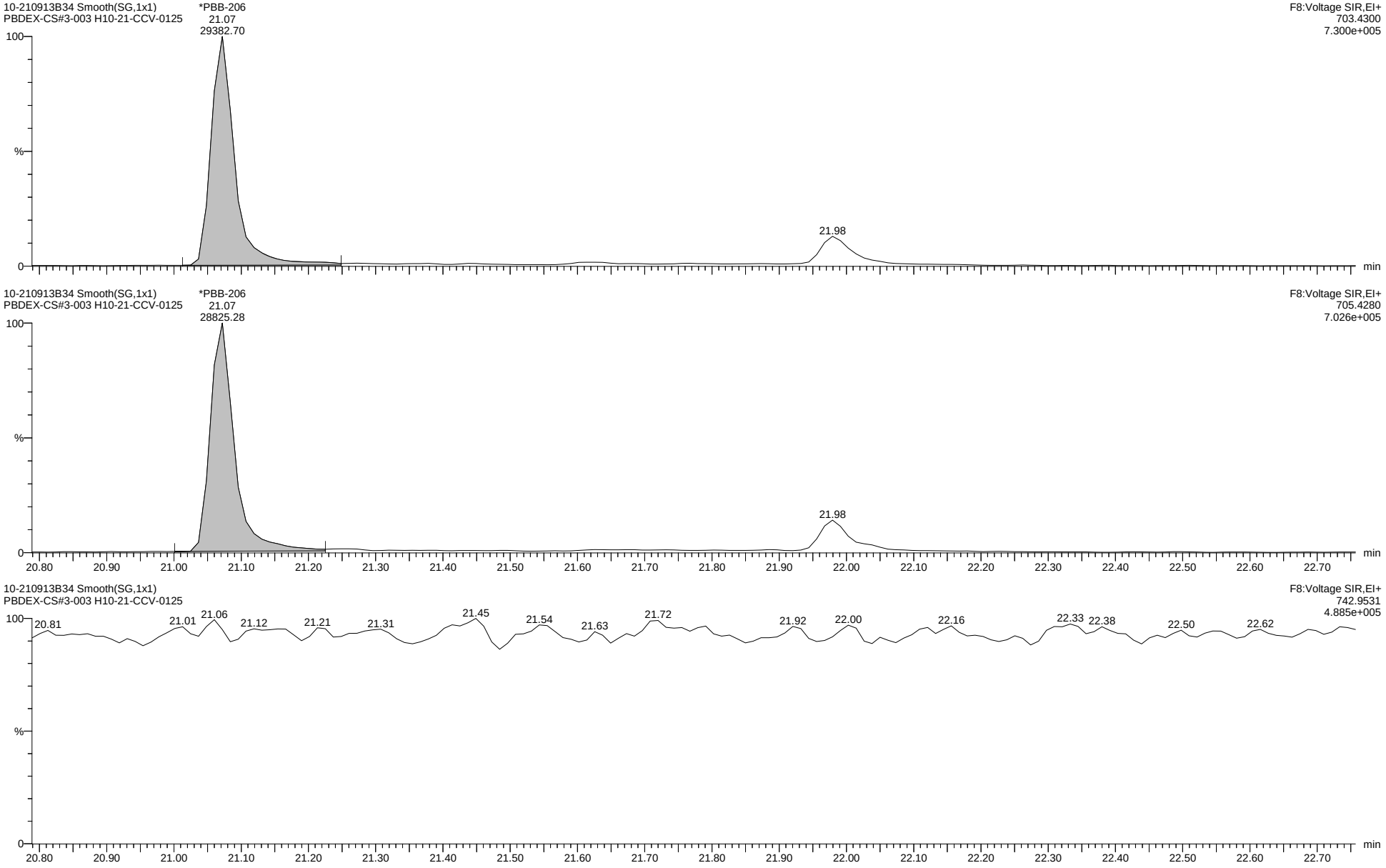

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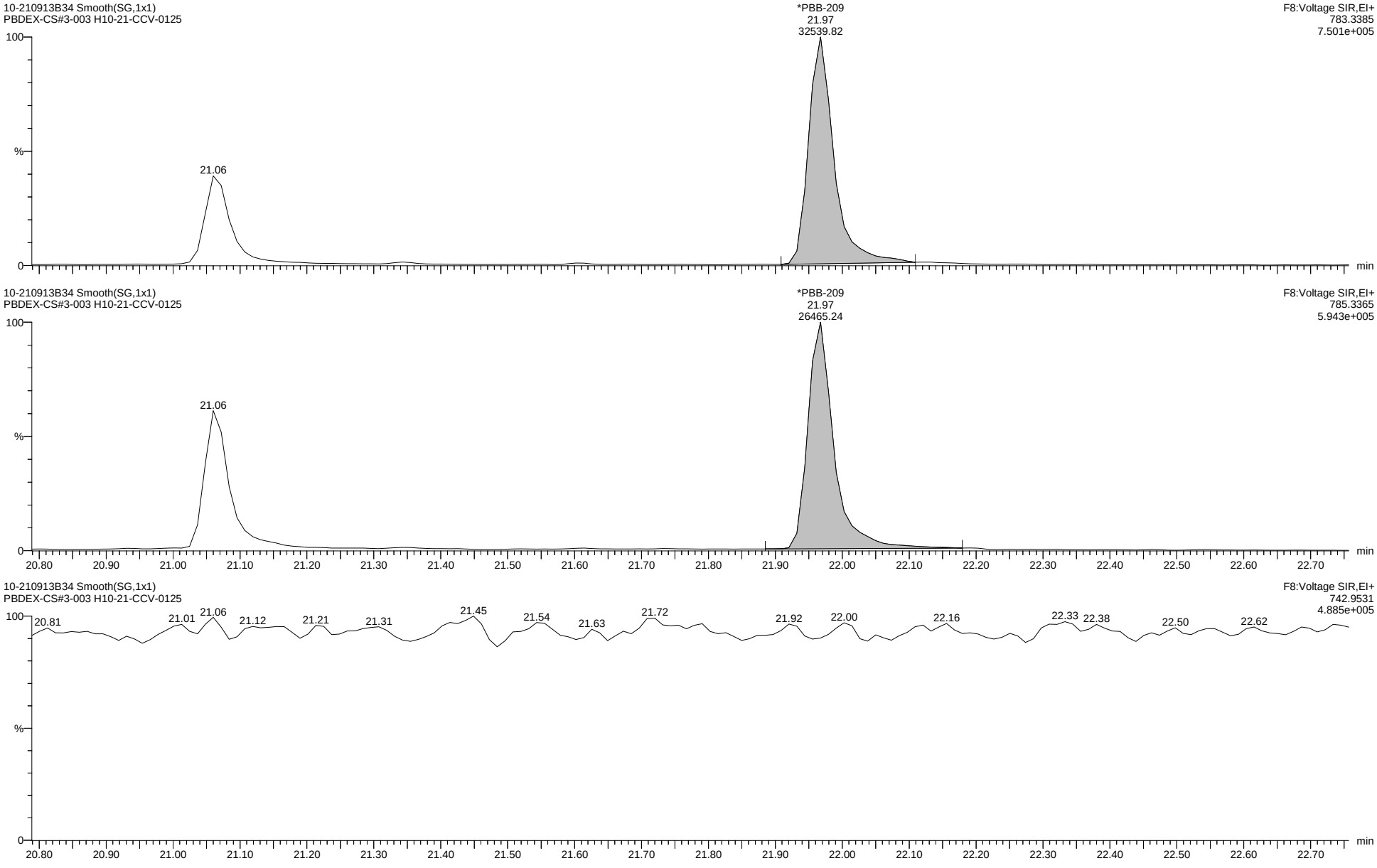

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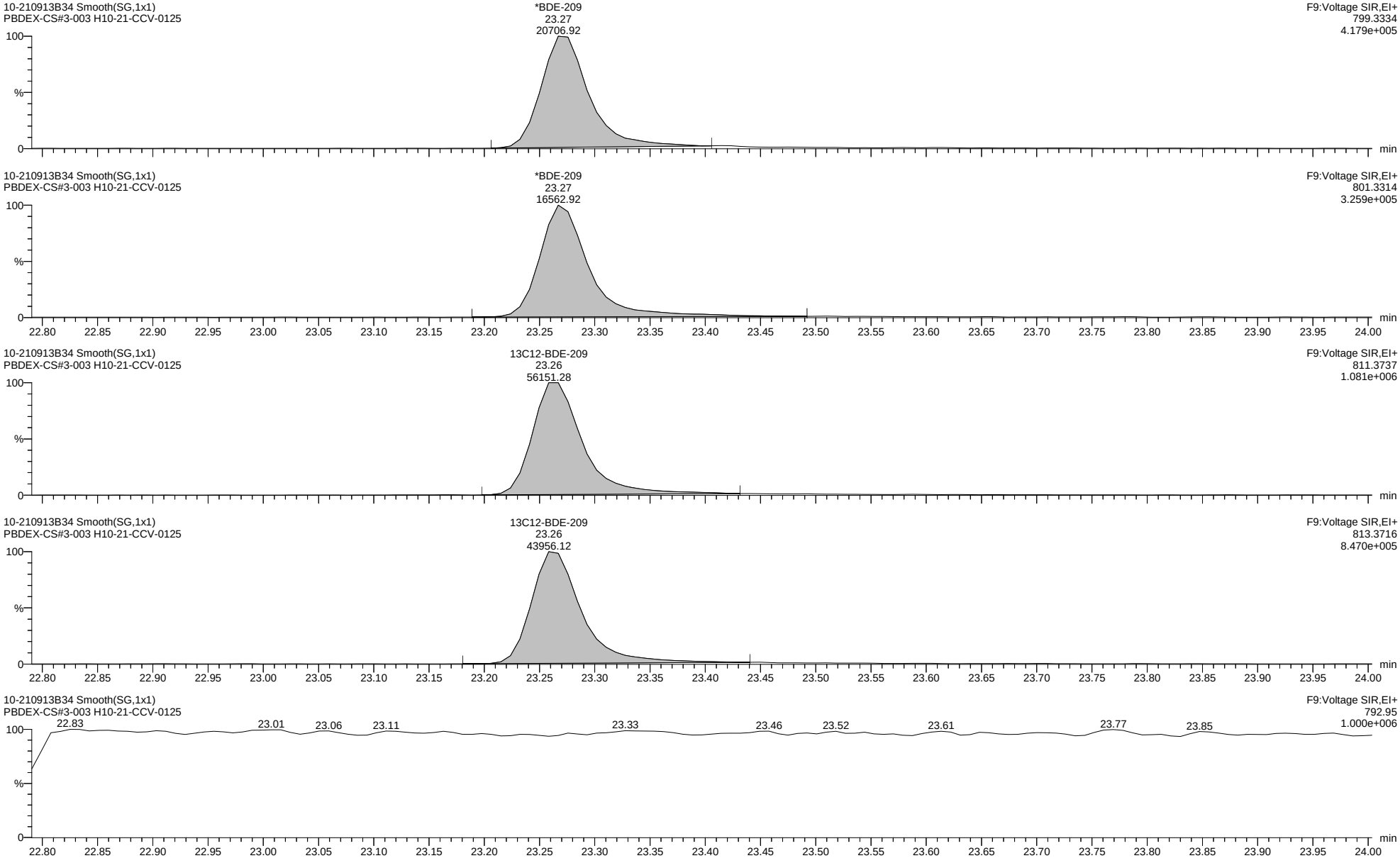

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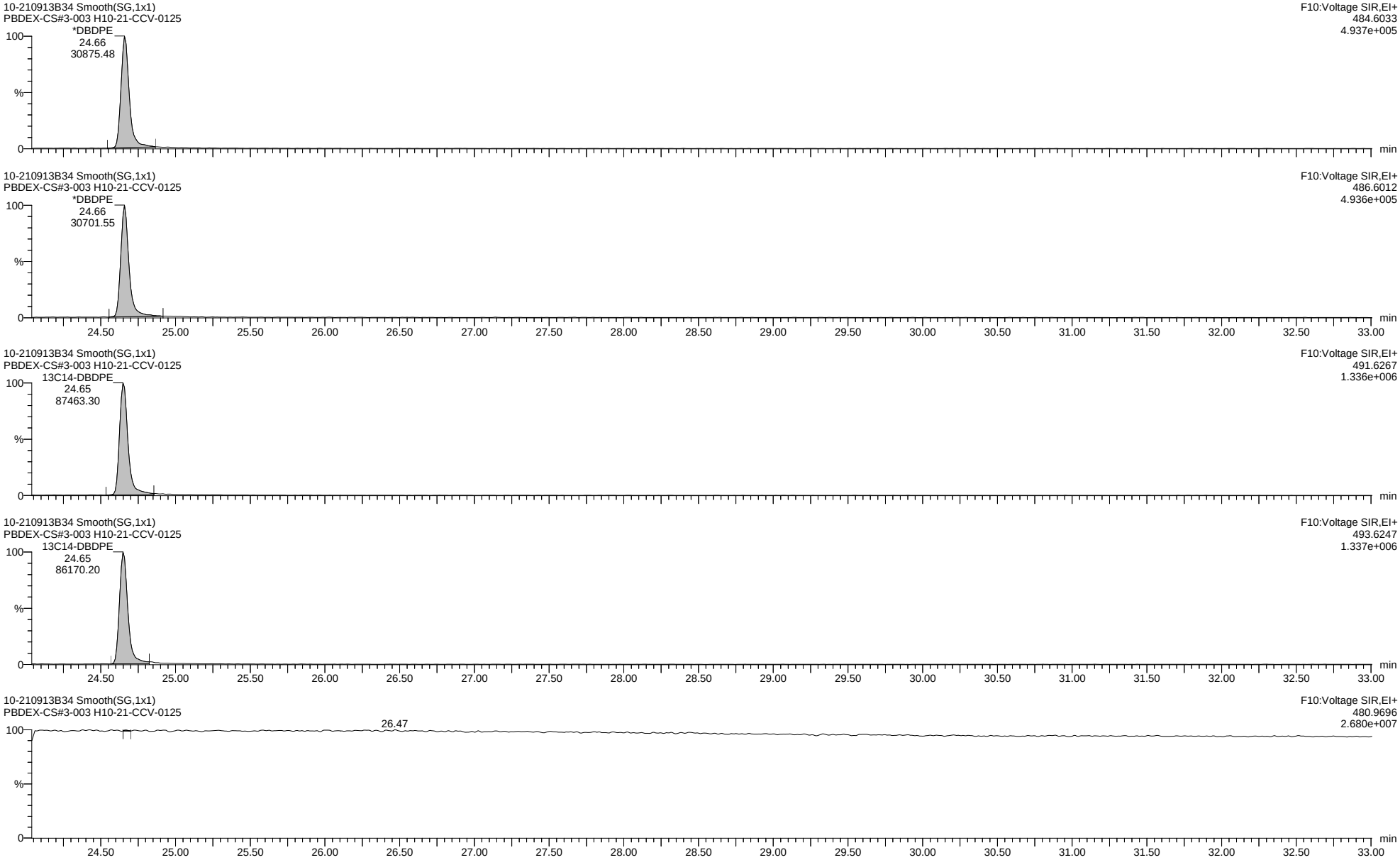

Quantify Sample Template Report **MassLynx MassLynx V4.1 SCN 901**

Dataset: I:\Organics Instrument\HIGHRES GCMS Completed Results Files\HR-10\2021\2109\10-210913B-Q2-PBDE.qld

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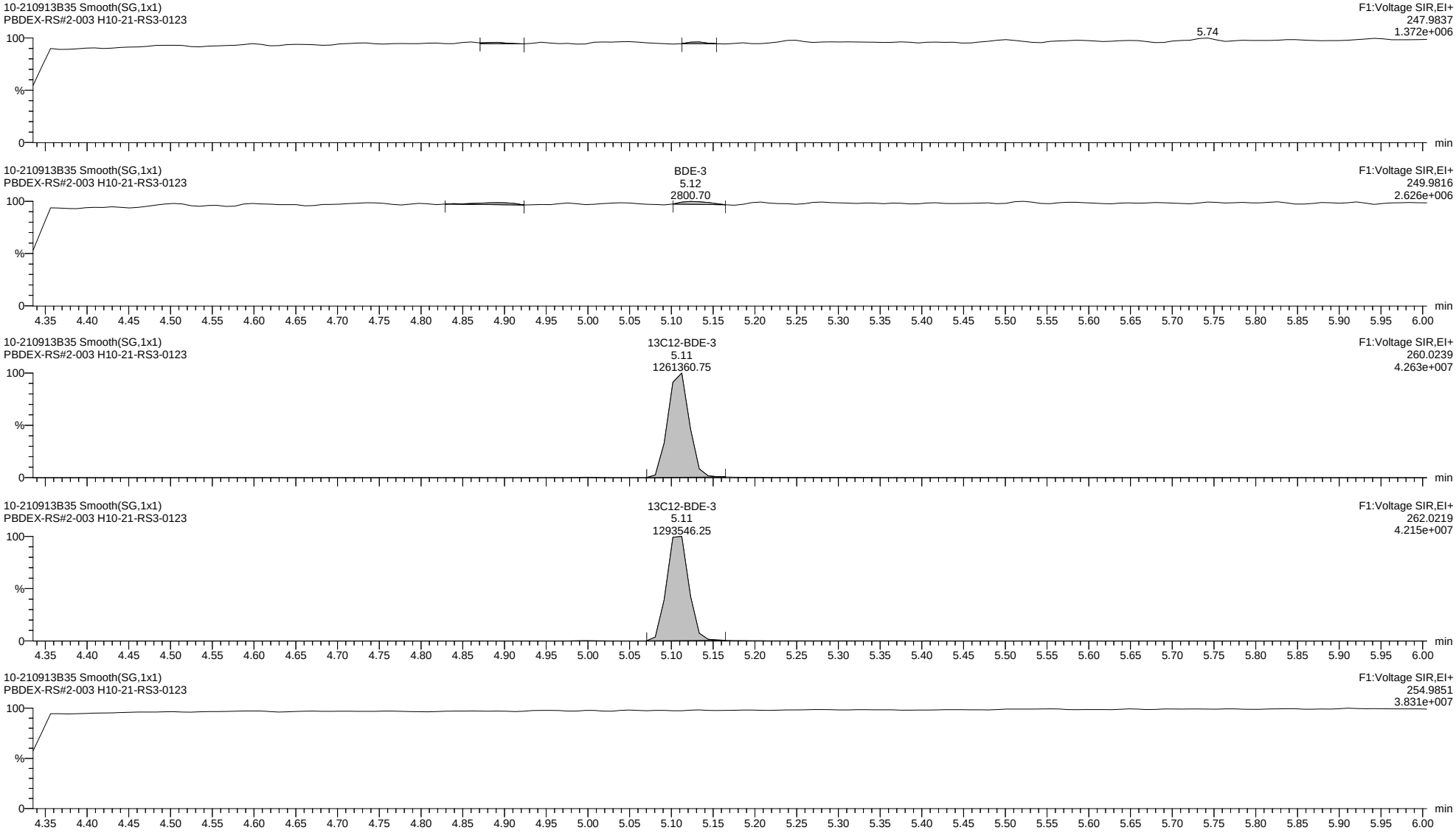
Printed: Friday, September 17, 2021 10:47:47 Eastern Daylight Time

Method: C:\MassLynx\PBDE.PRO\MethDB\PBDEX-DB5-1-210913B.mdb 14 Sep 2021 11:10:04
Calibration: C:\MassLynx\PBDE.PRO\CurveDB\10-210913B-ICAL-PBDE.cdb 14 Sep 2021 11:07:06

Name: 10-210913B35, Date: 14-Sep-2021, Time: 16:22:34, ID: H10-21-RS3-0123, Description: PBDEX-RS#2-003, Vial: Tray1:10



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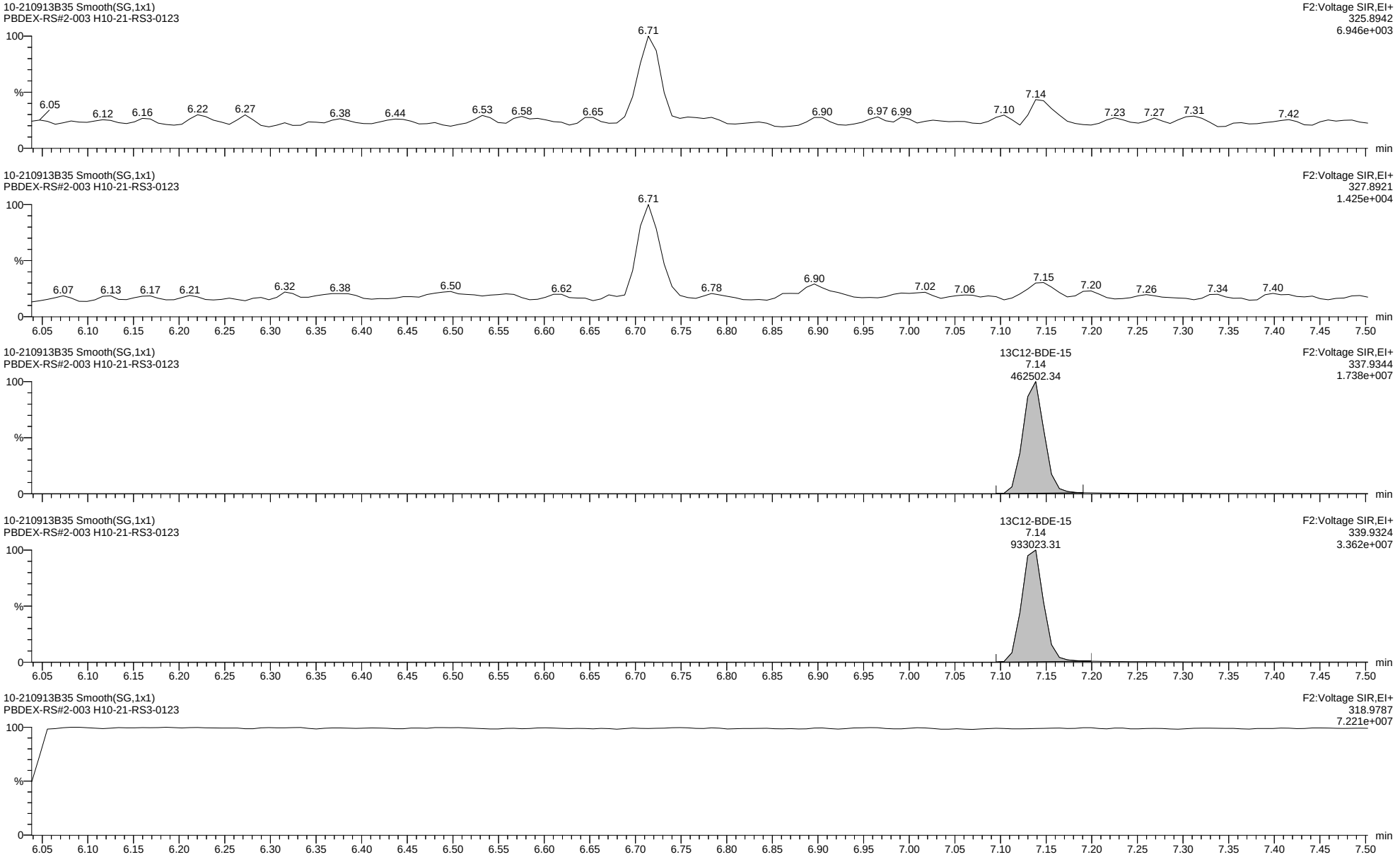

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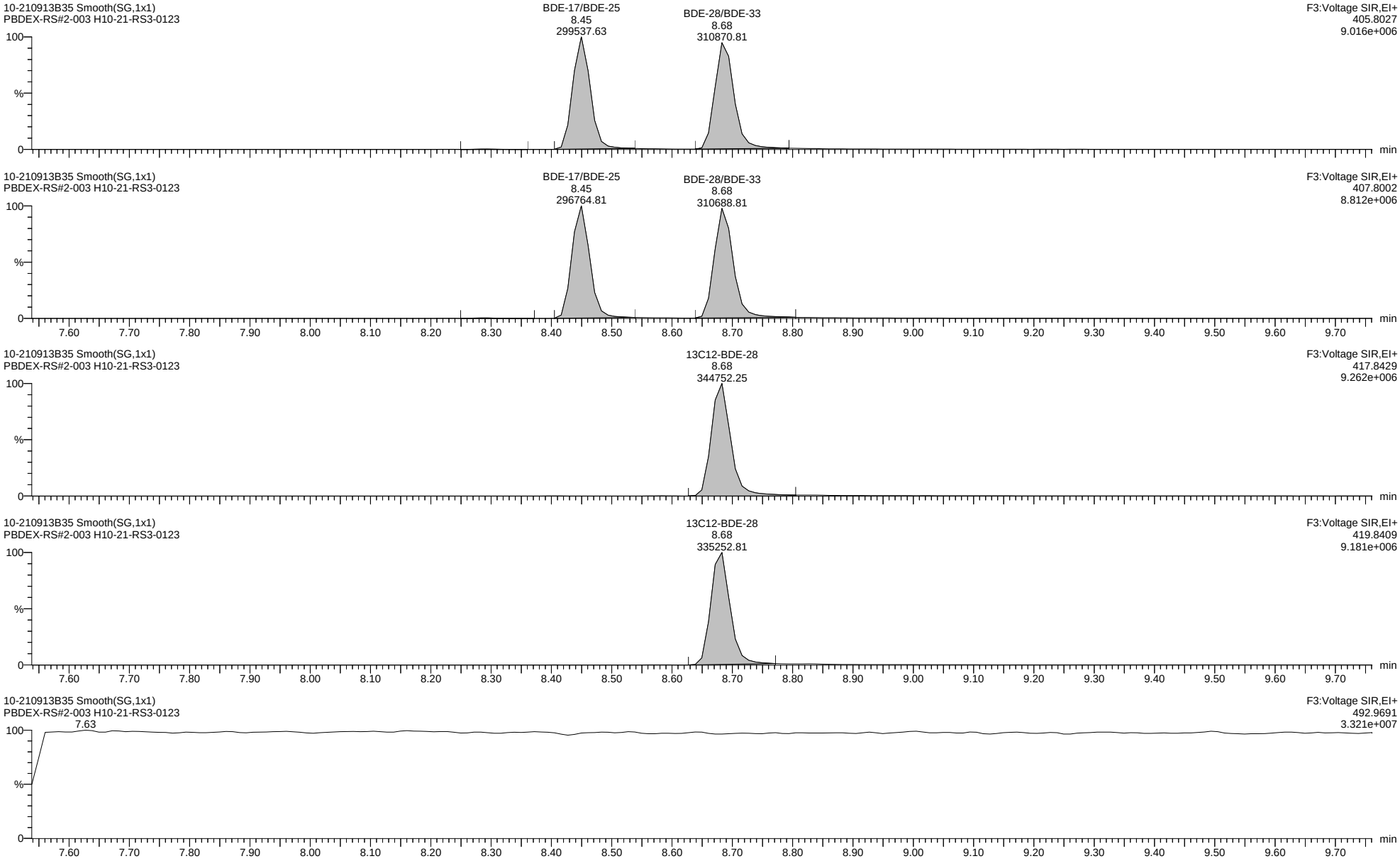

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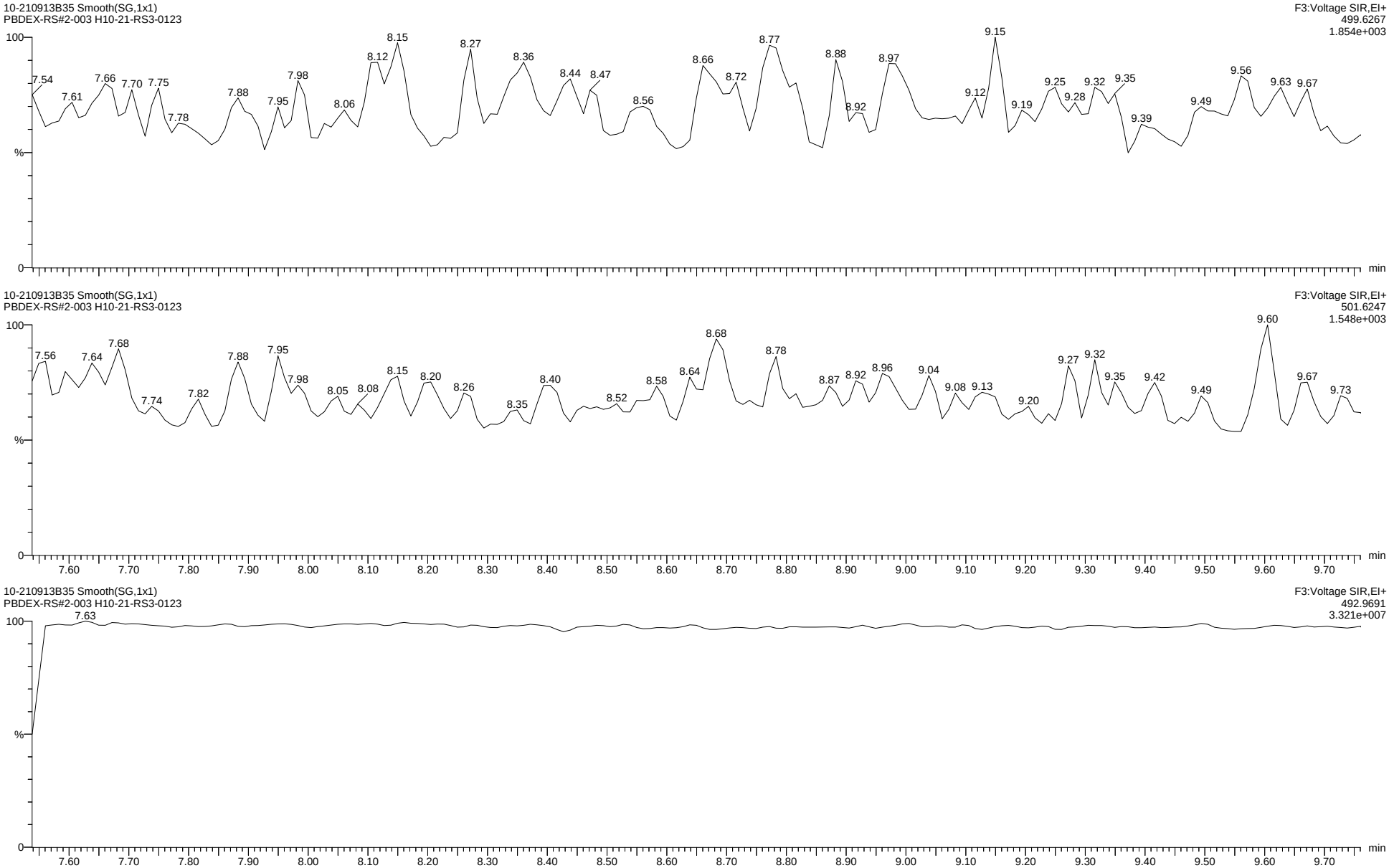

Quantify Sample Template Report **MassLynx MassLynx V4.1 SCN 901**

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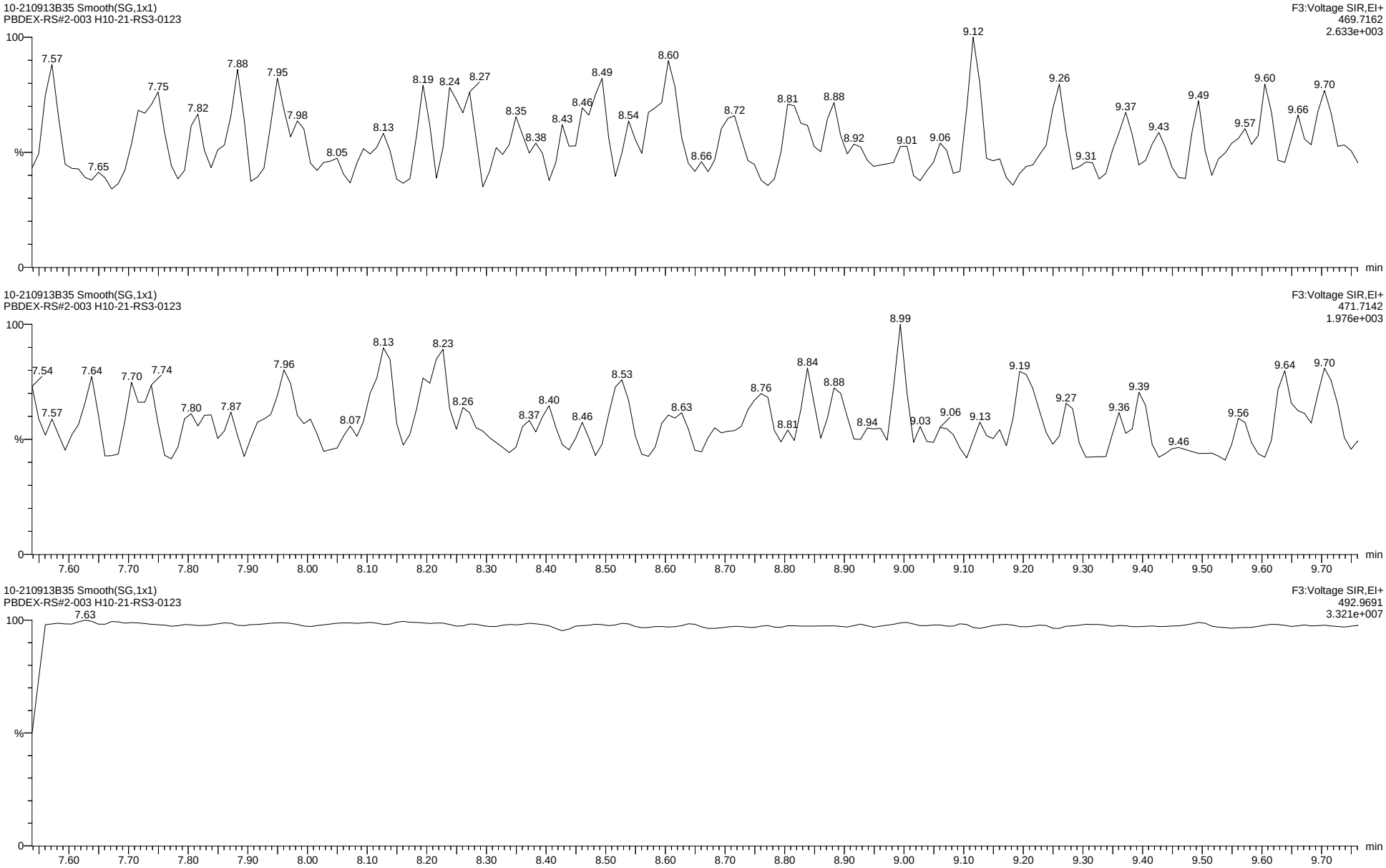

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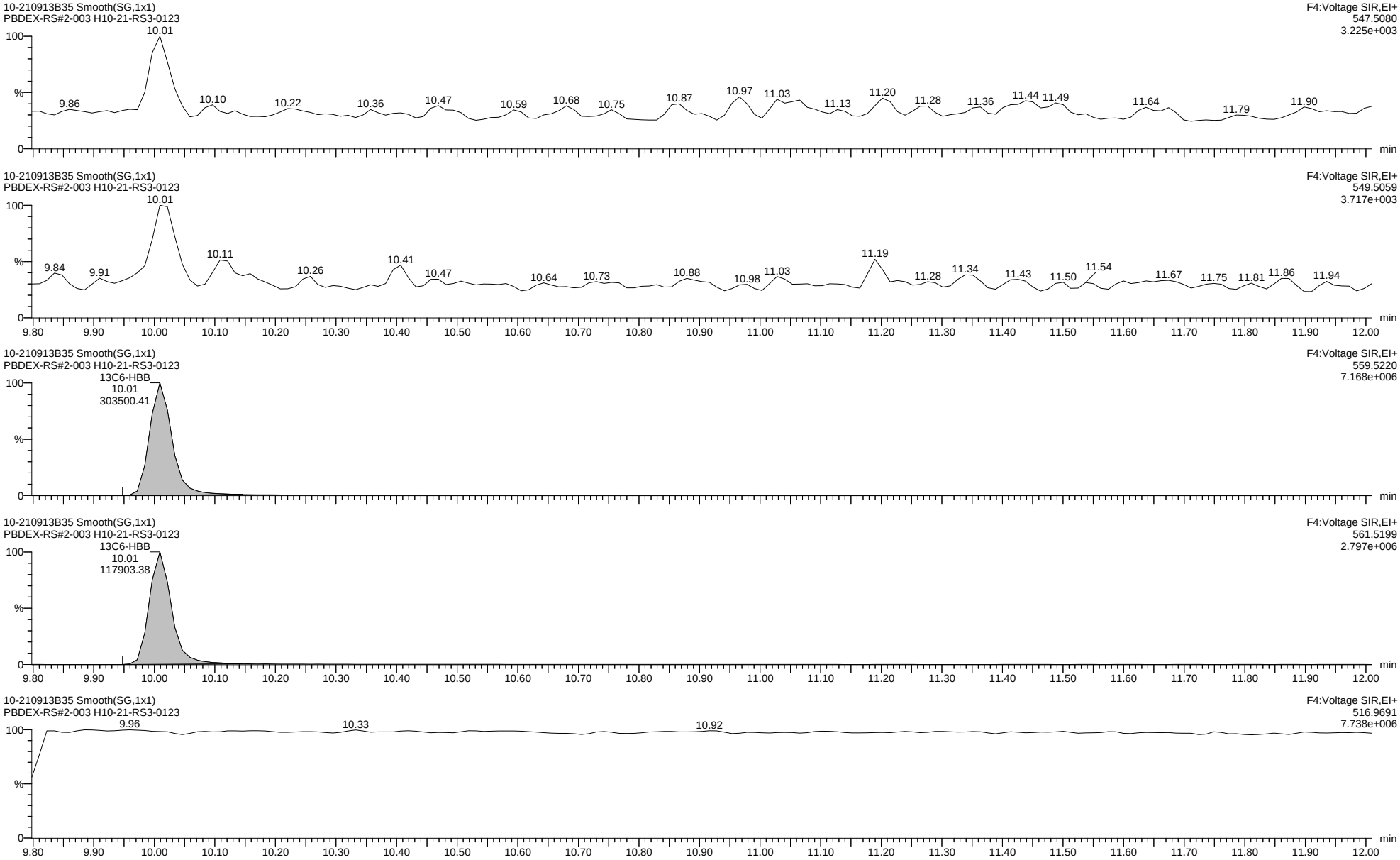

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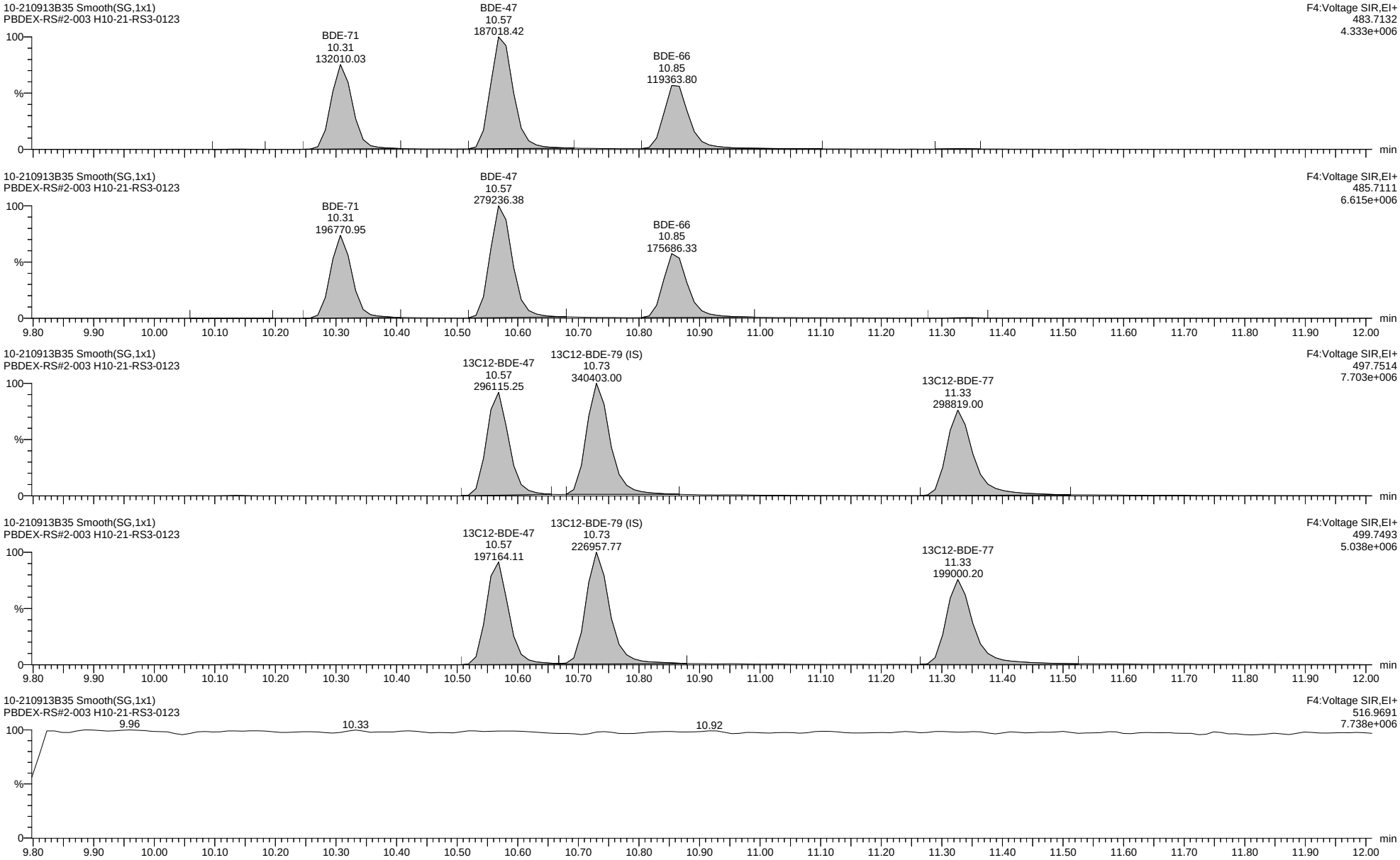

Quantify Sample Template Report **MassLynx MassLynx V4.1 SCN 901**

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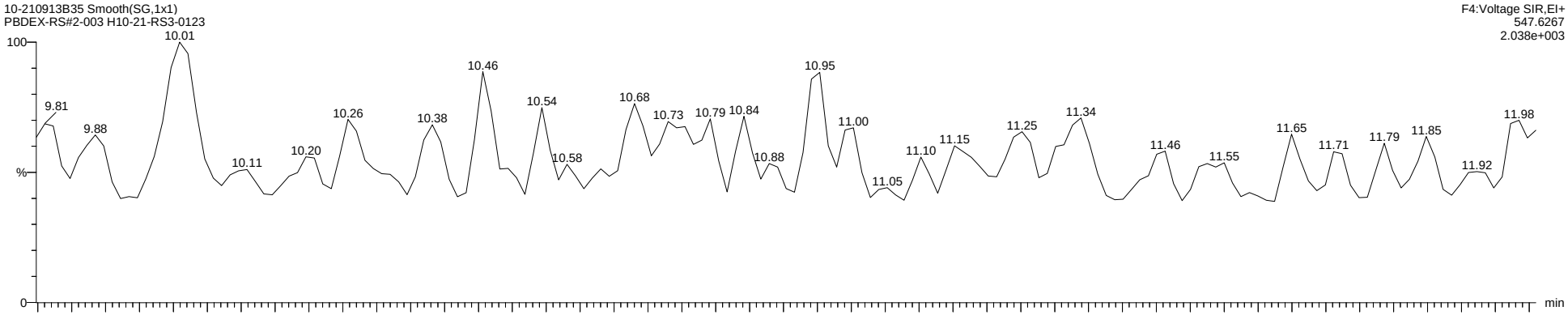

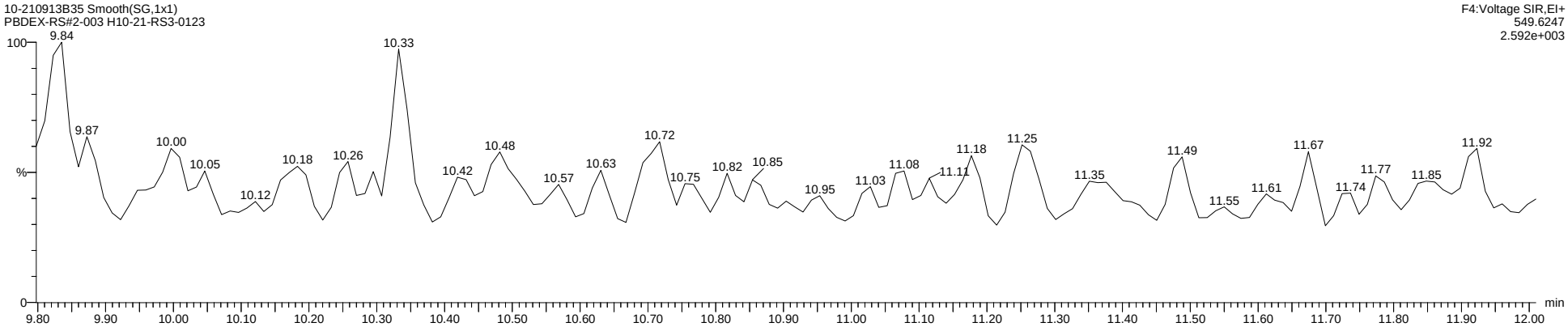

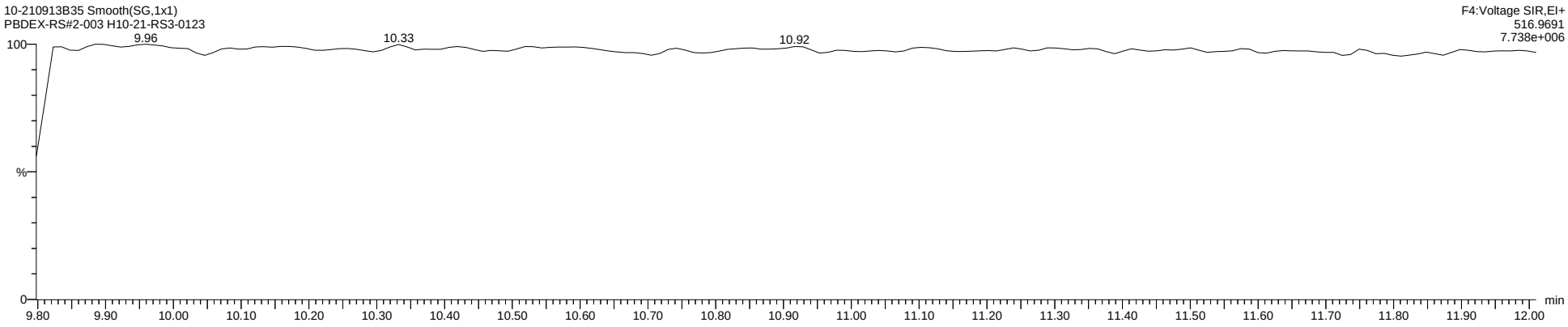

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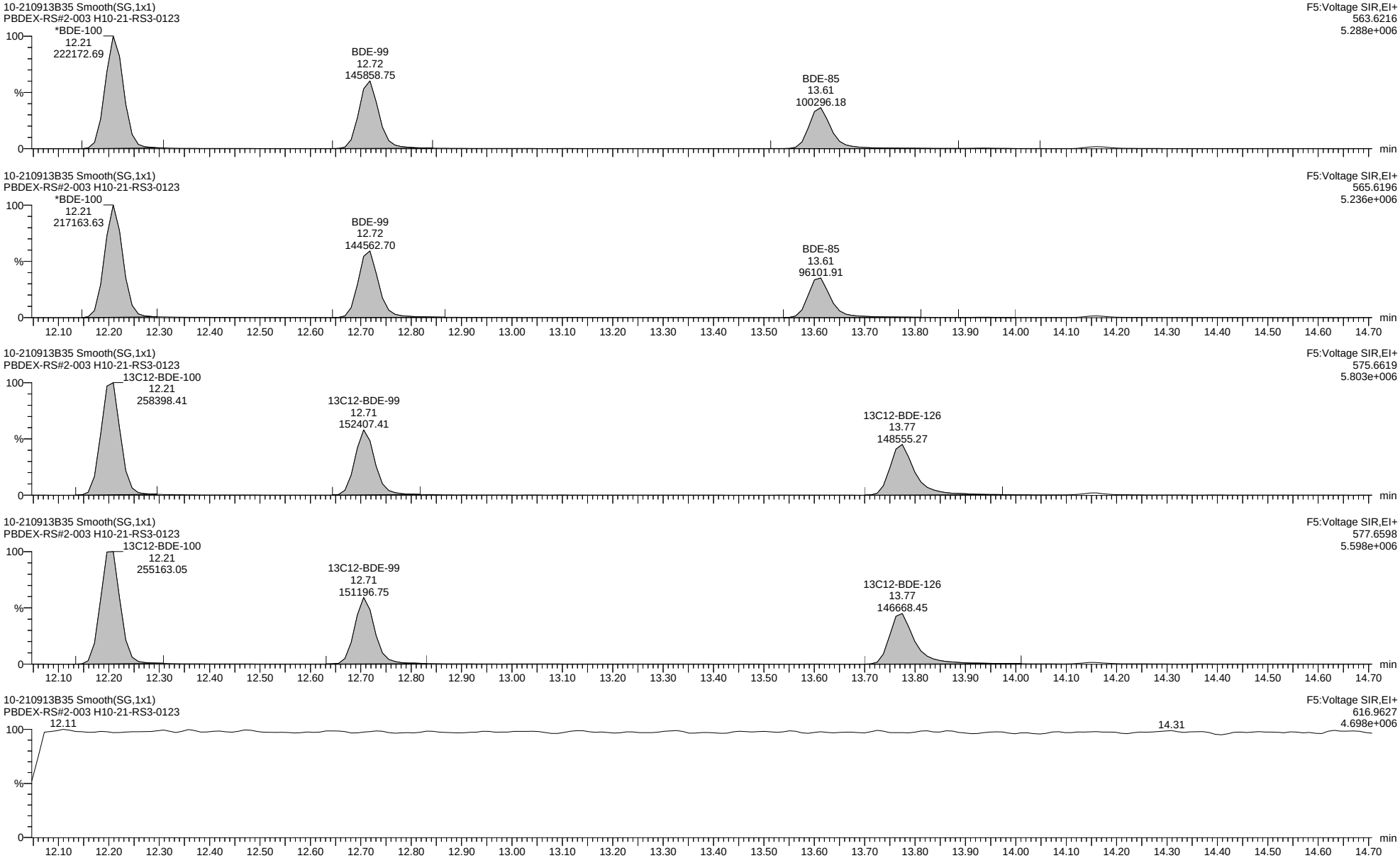

Quantify Sample Template Report **MassLynx MassLynx V4.1 SCN 901**

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Printed: Friday, September 17, 2021 10:47:47 Eastern Daylight Time

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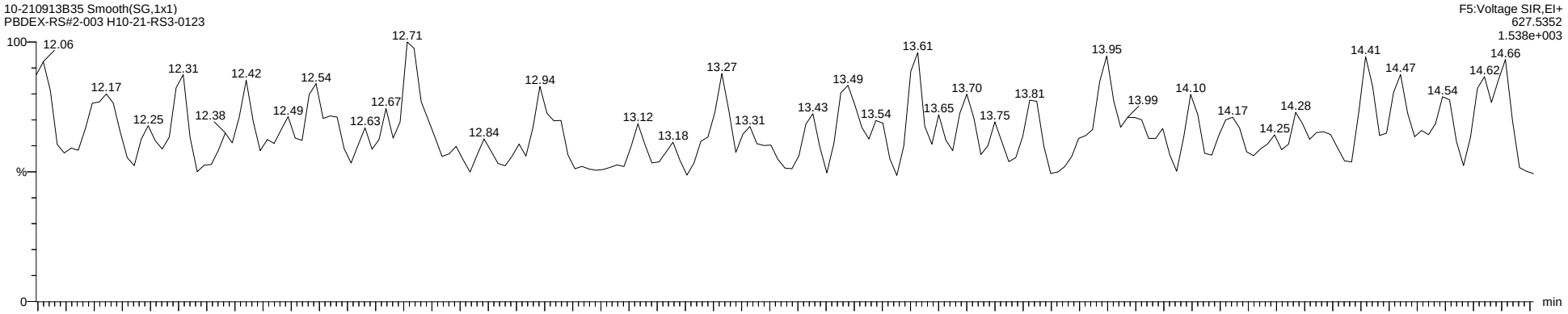

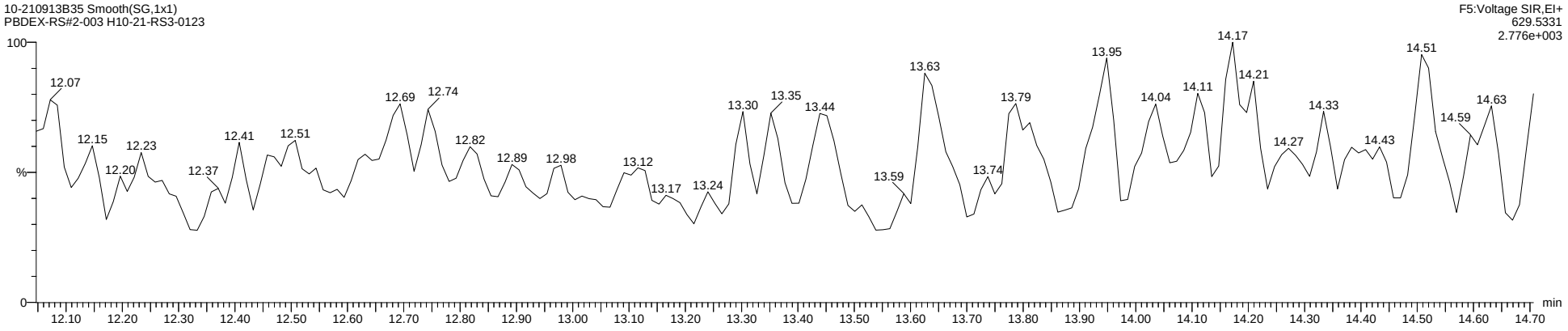

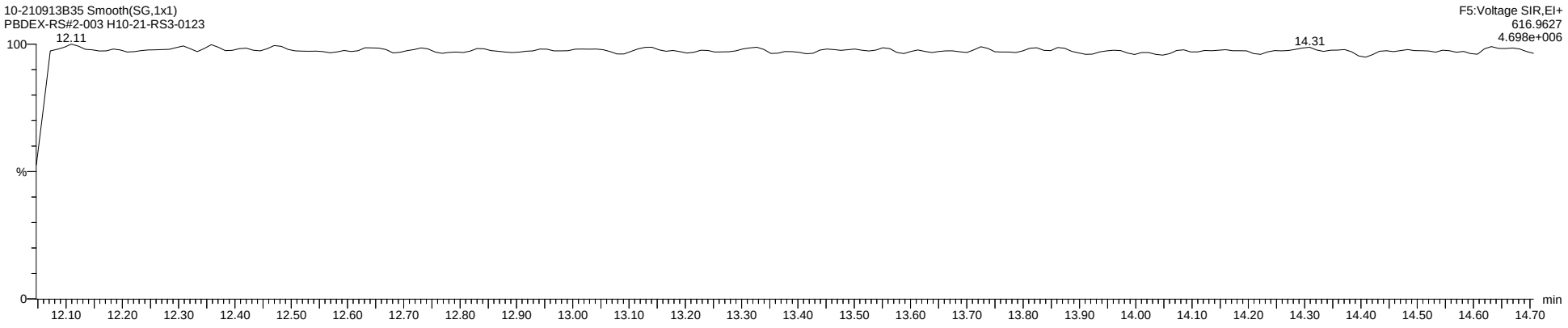

Quantify Sample Template Report **MassLynx MassLynx V4.1 SCN 901**

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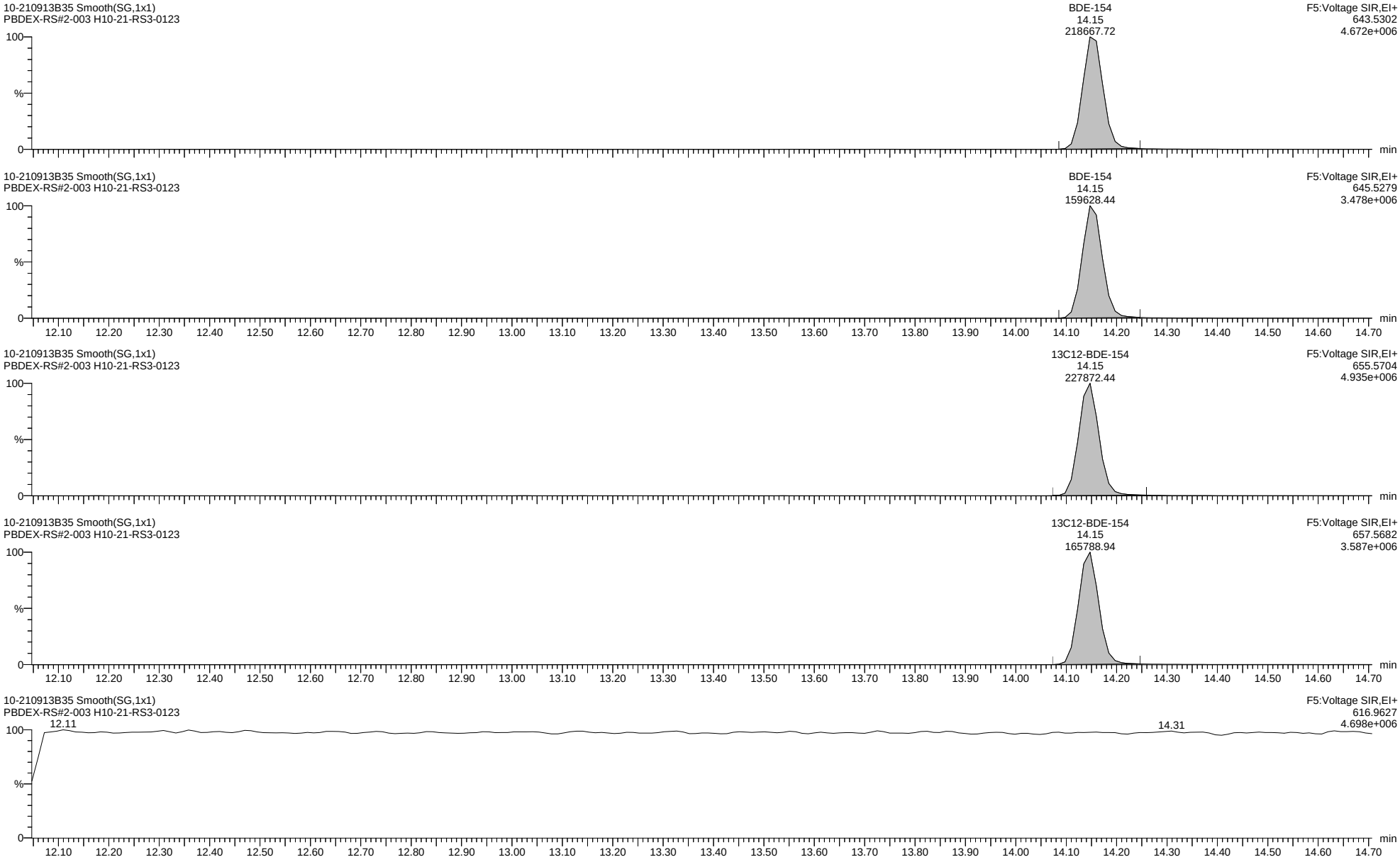

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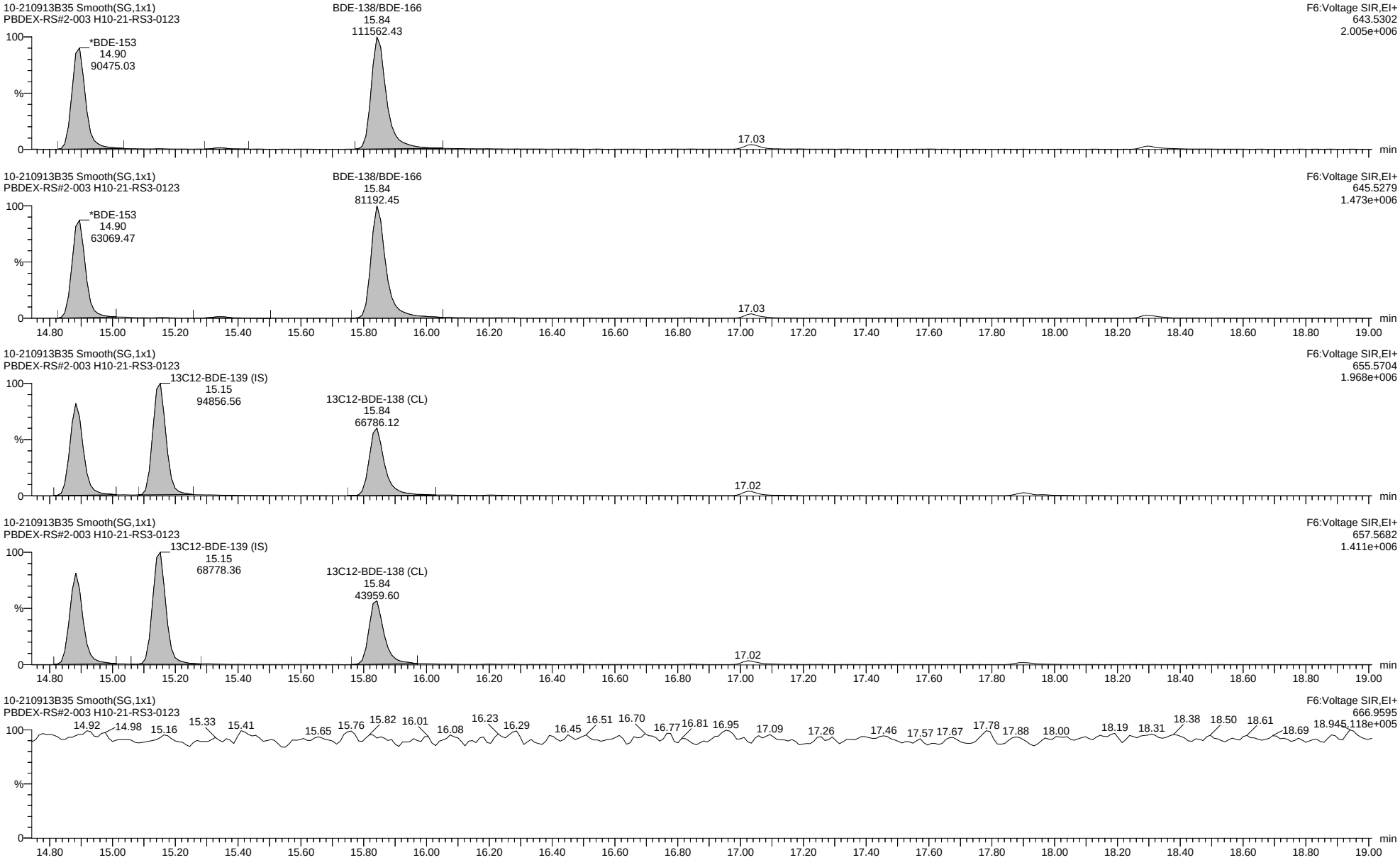

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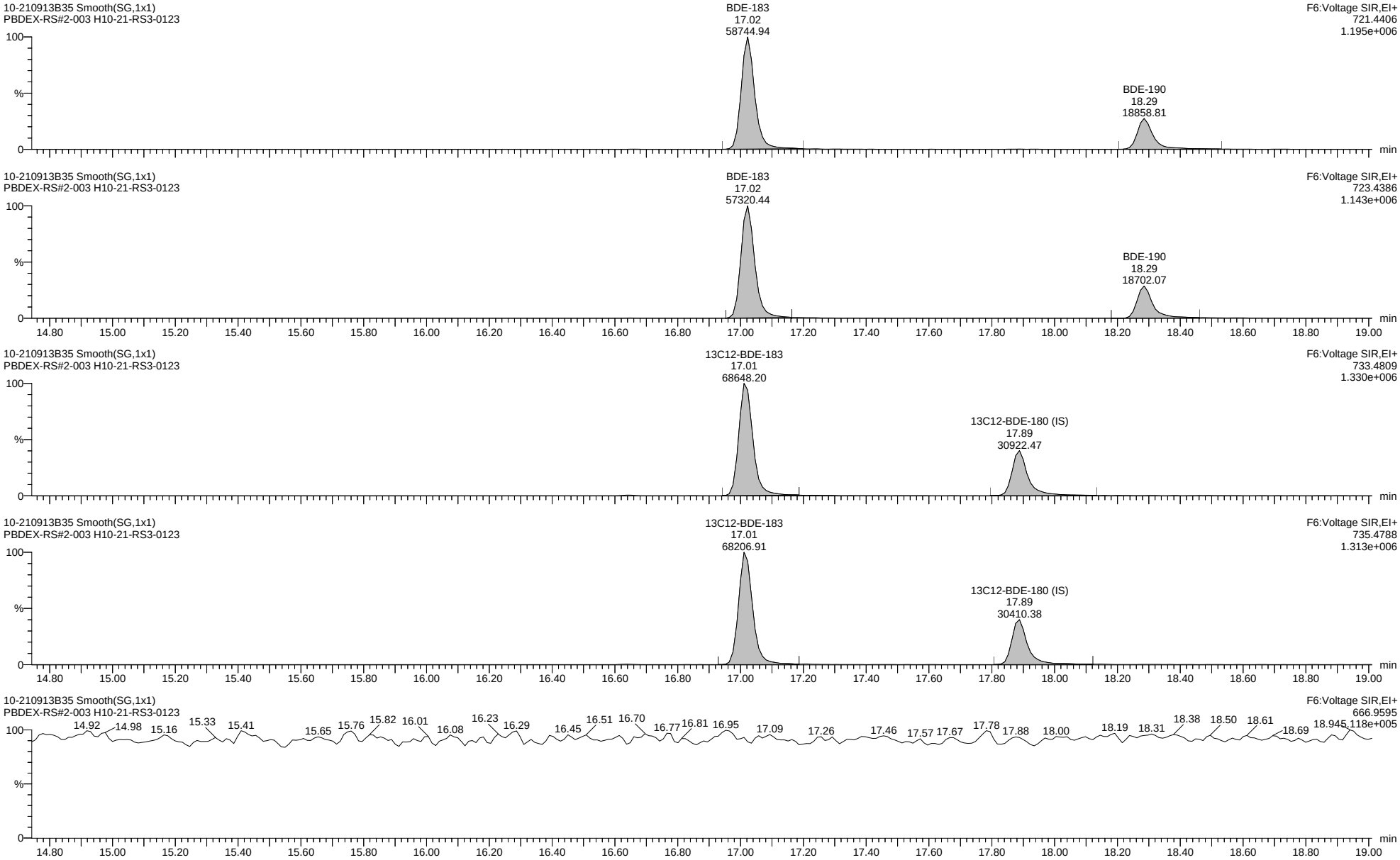

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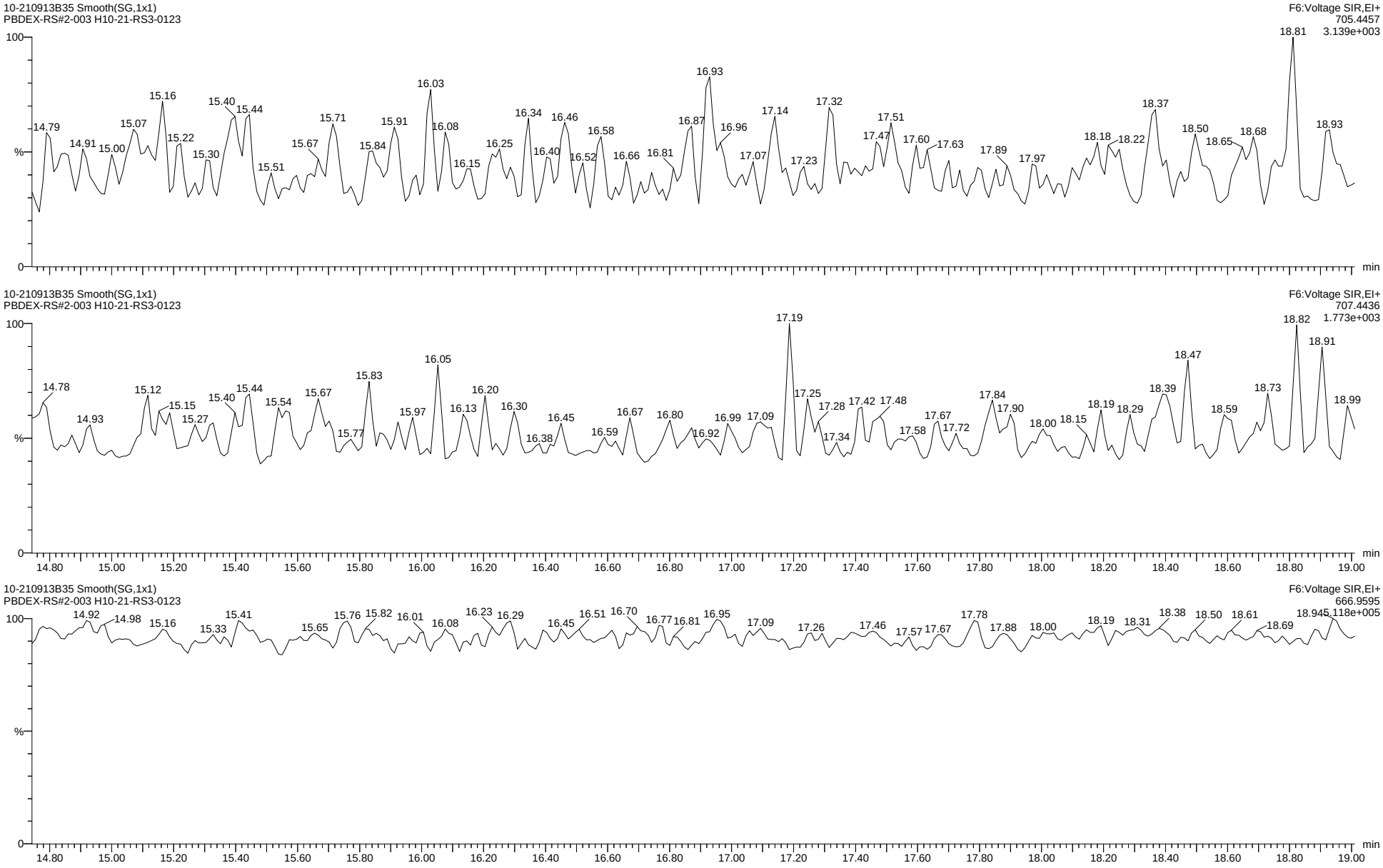

Quantify Sample Template Report **MassLynx MassLynx V4.1 SCN 901**

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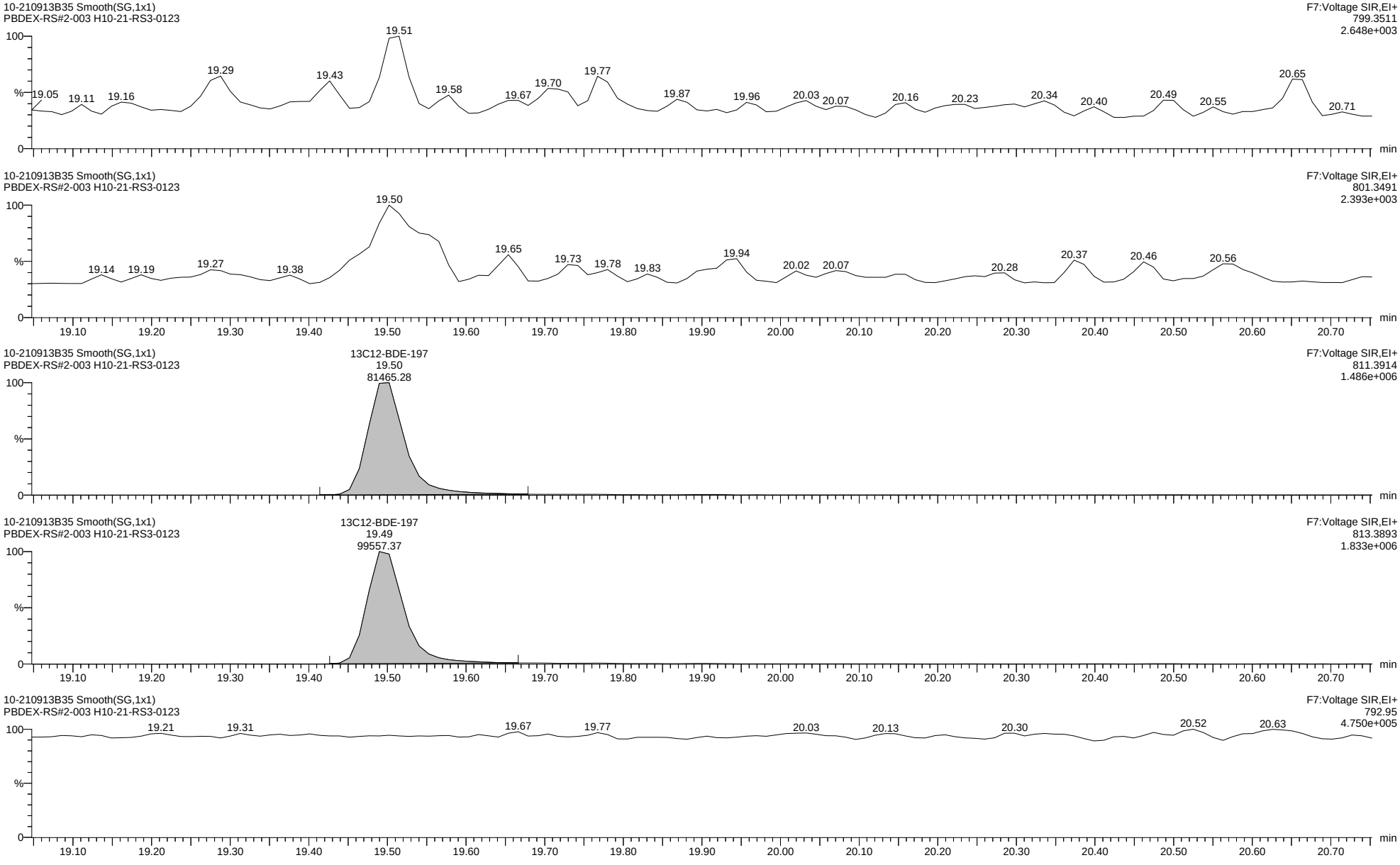

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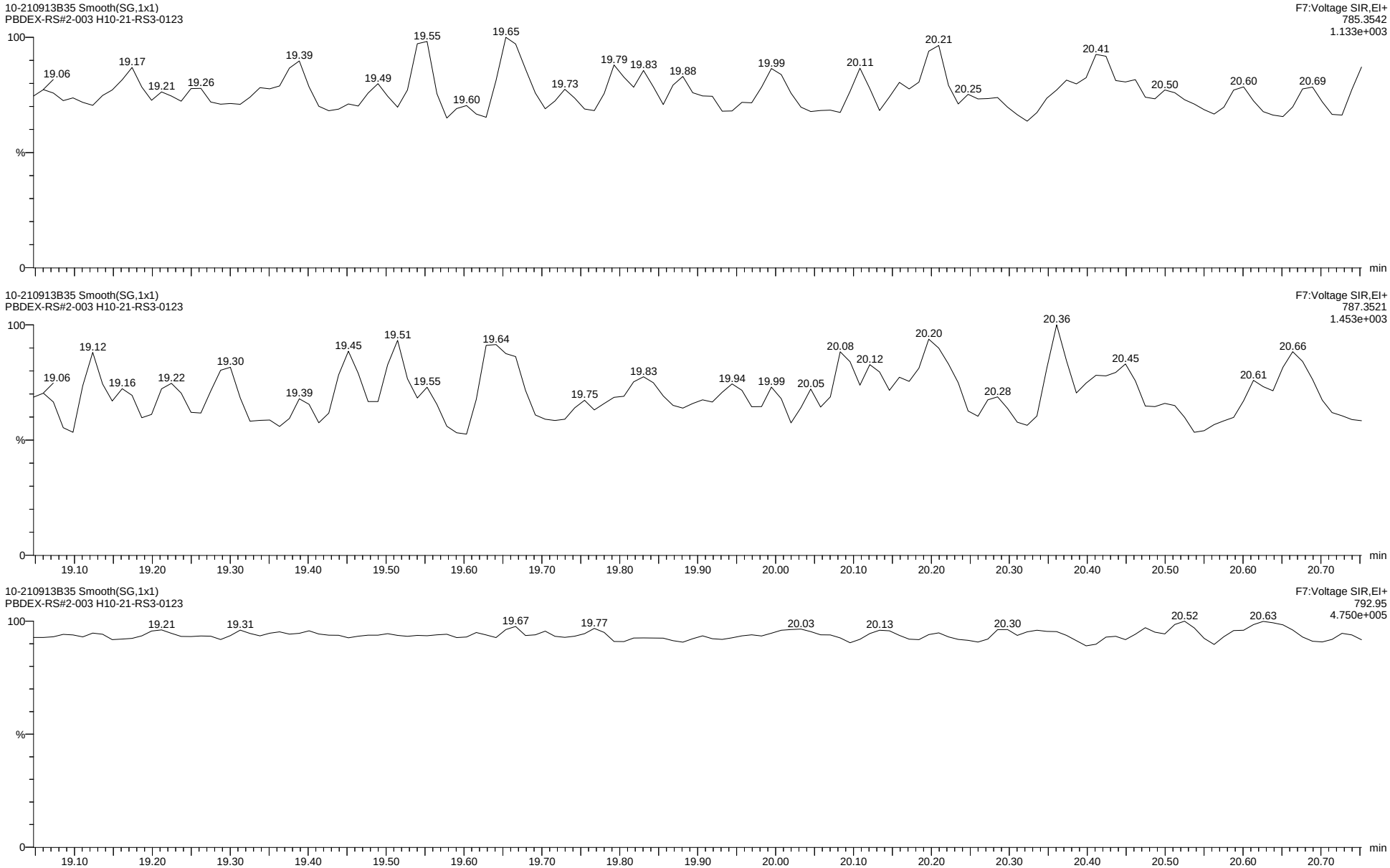

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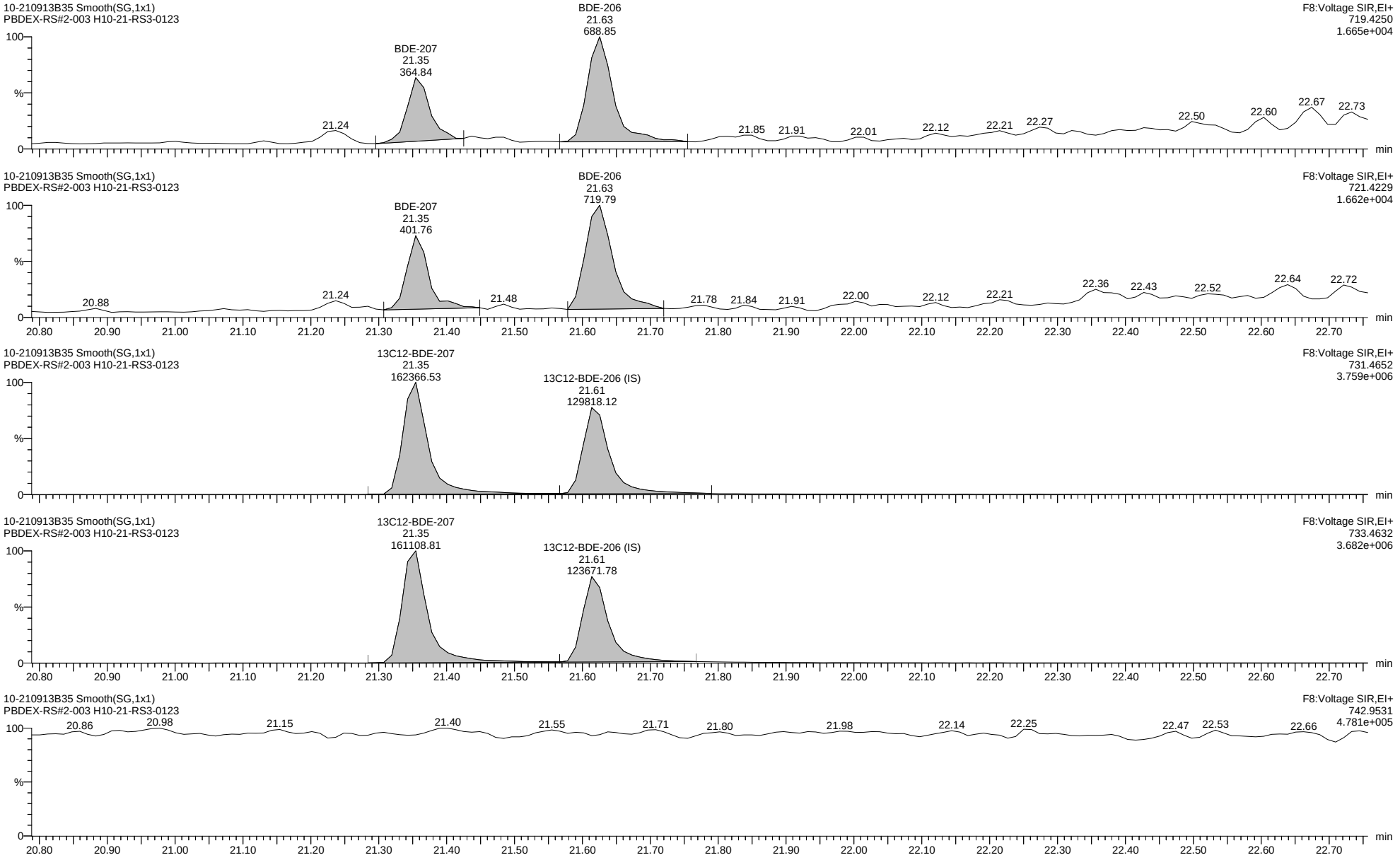

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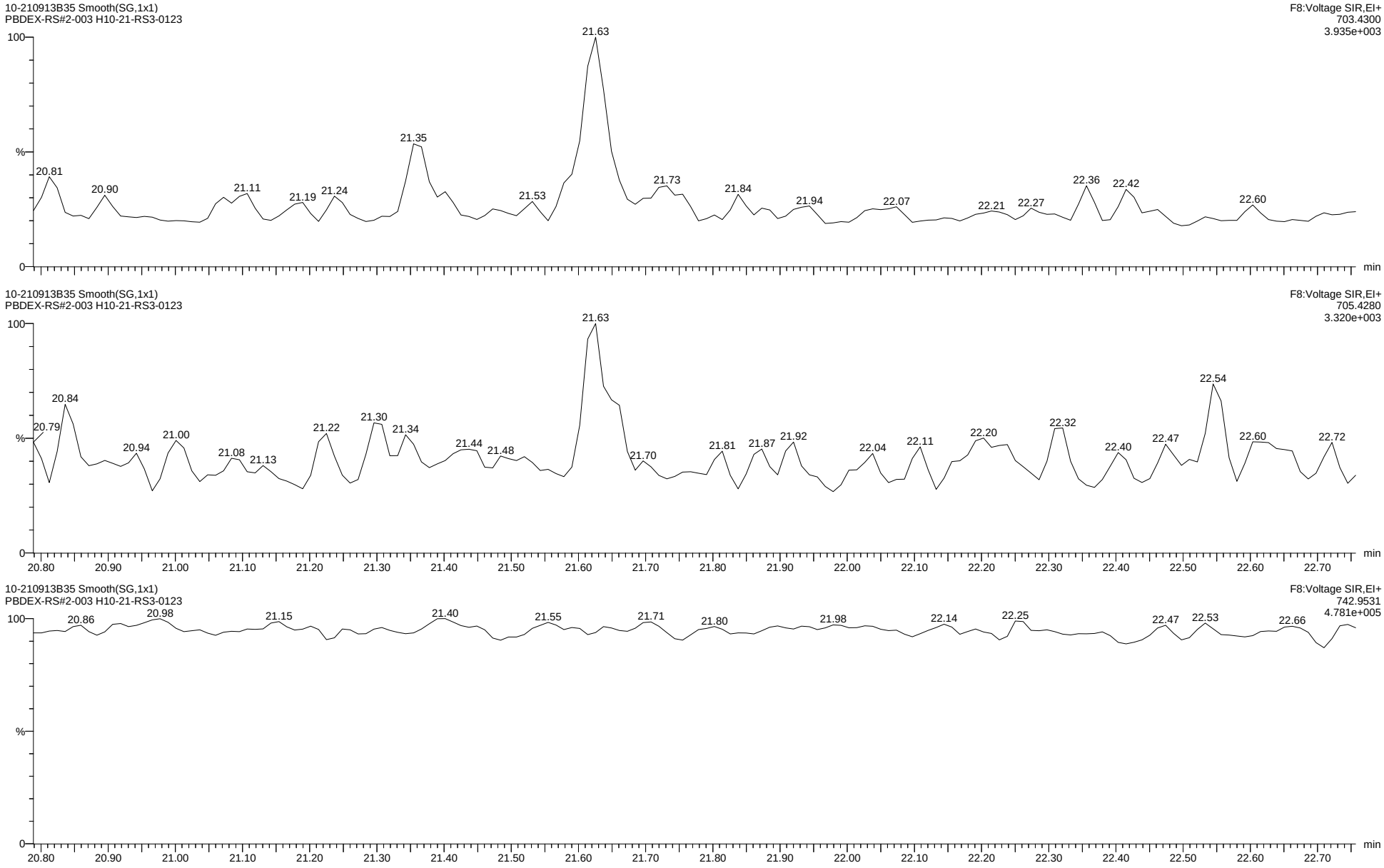

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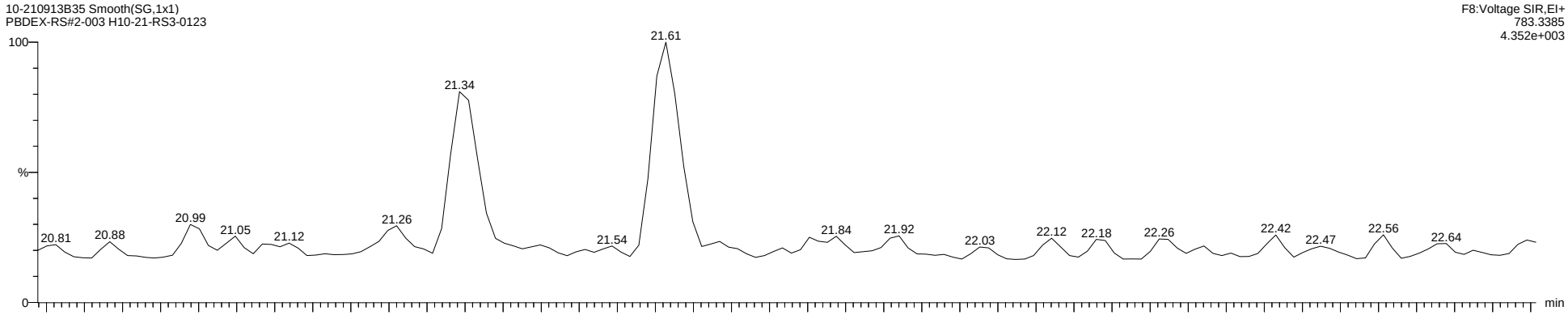

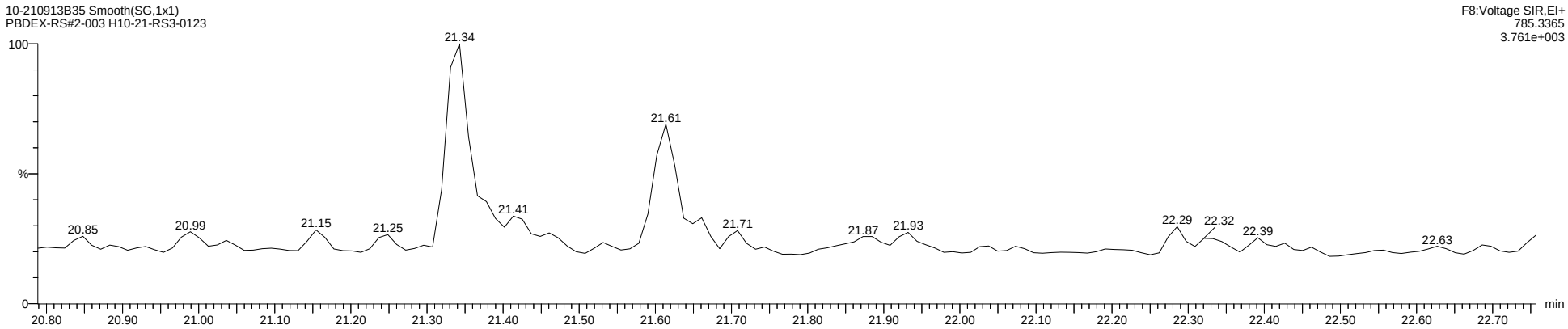

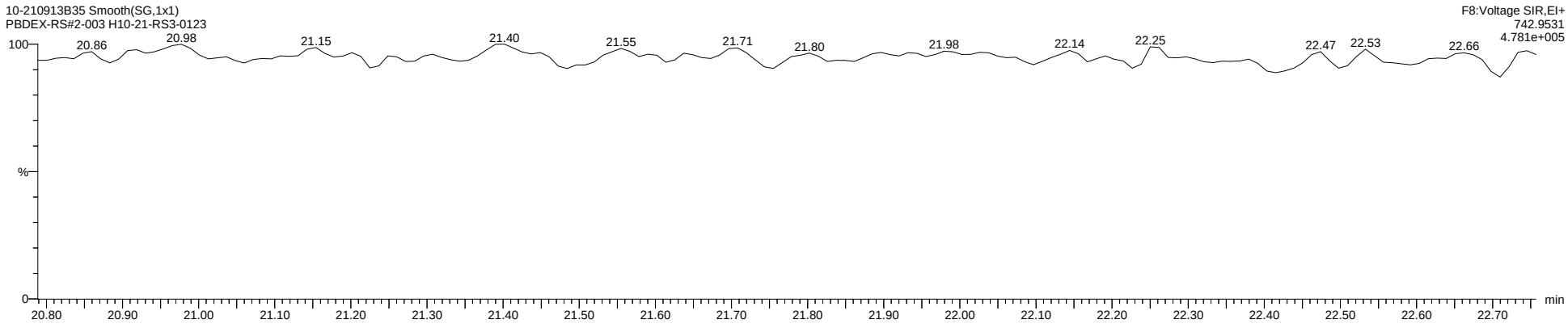

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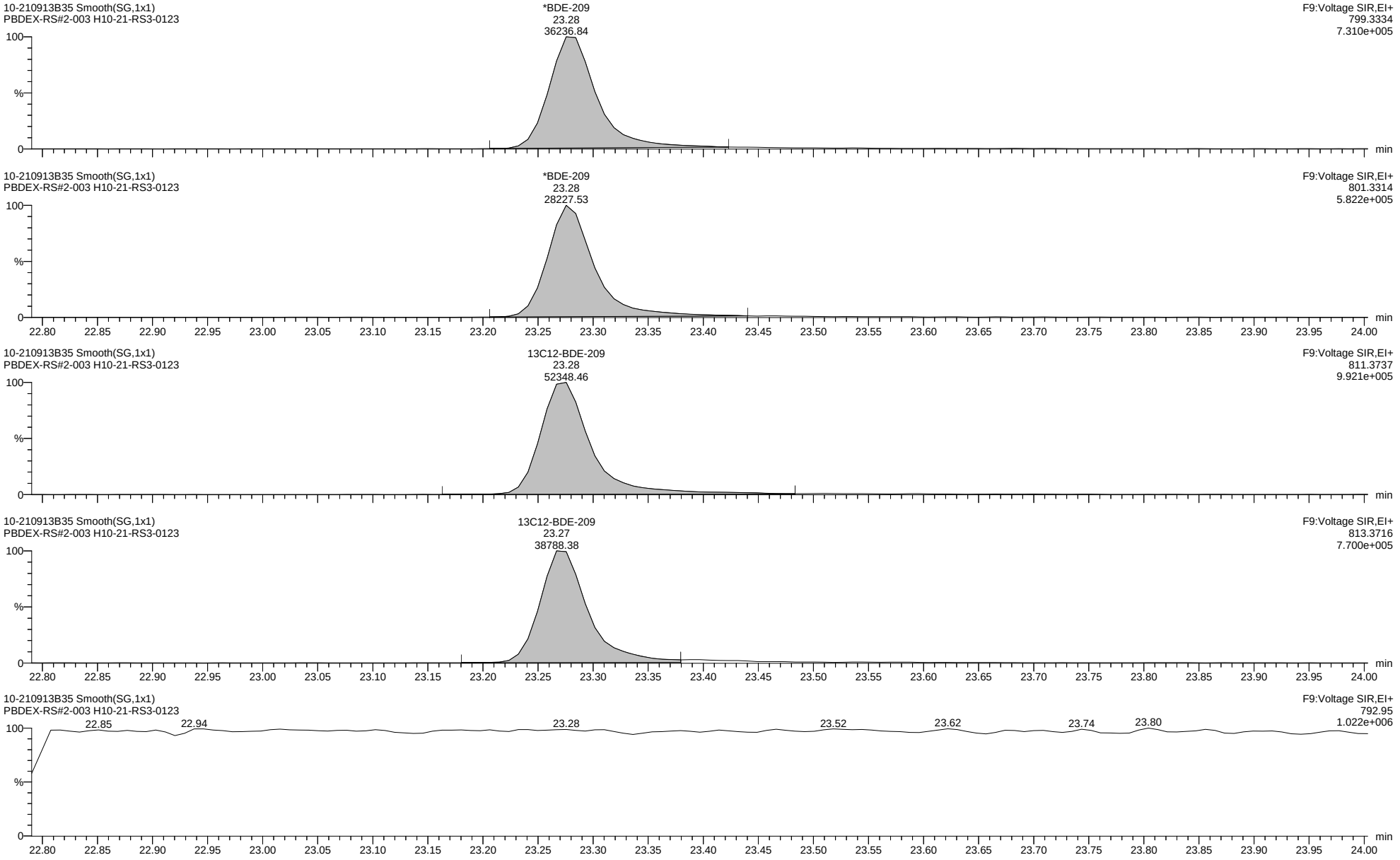

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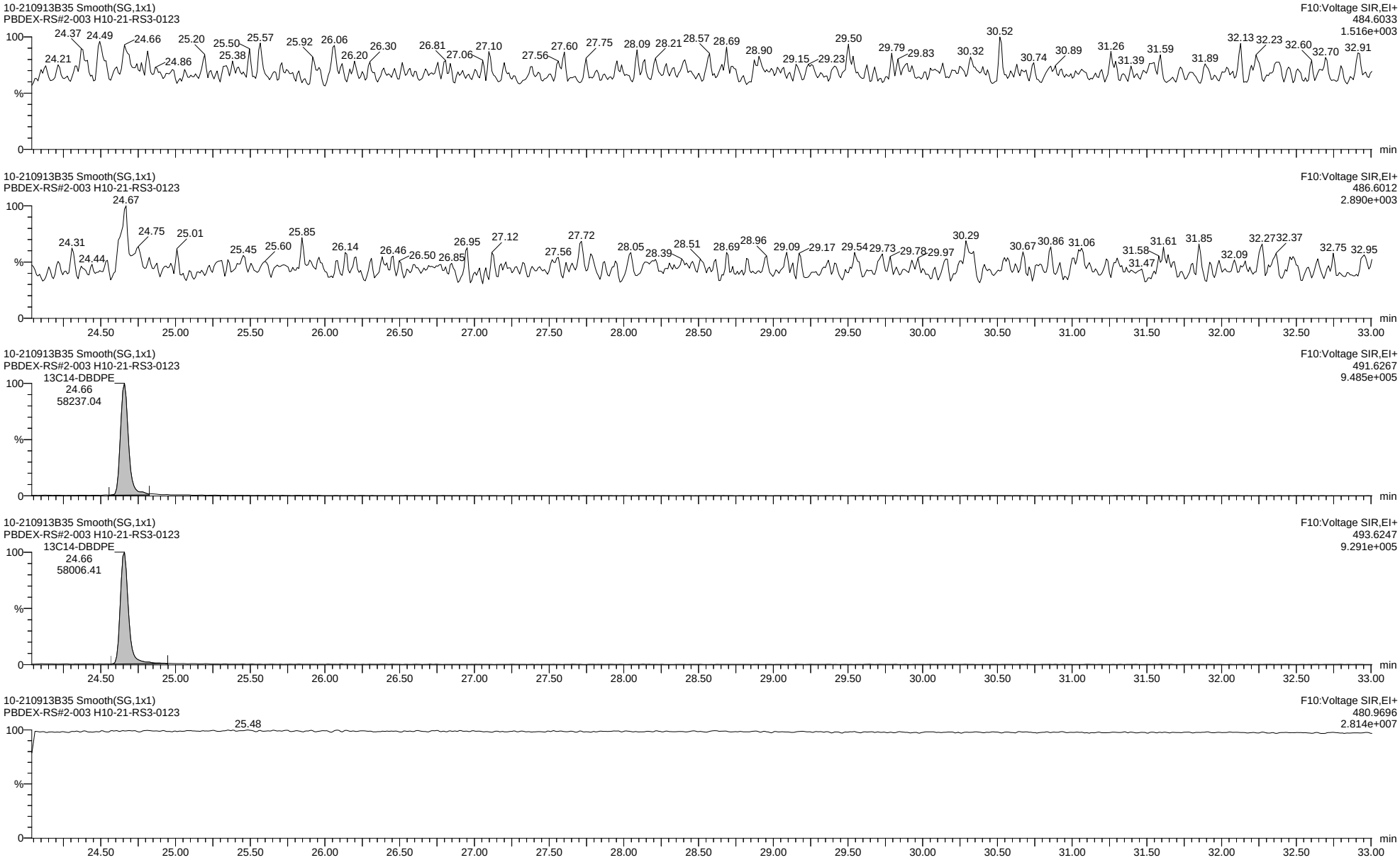

Quantify Sample Summary Report **MassLynx MassLynx V4.1 SCN 901**

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Printed: Friday, September 17, 2021 12:20:40 Eastern Daylight Time

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Calibration: C:\MassLynx\PBDE.PRO\CurveDB\10-210913B-ICAL-PBDE.cdb 14 Sep 2021 11:07:06

Name: 10-210913B09, Date: 13-Sep-2021, Time: 21:51:47, ID: WG3603654-2, Description: LCS, Vial: Tray1:14

	Target Analyte	#Hom	Total Area	Ion1 Area	Ion2 Area	Ra	Ra Fail=YES	RT	RRT	RT LCL	RT UCL	Conc.	%Rec	Mod.Comment	Noise 1	Noise 2
1	*BDE-1		40542.675	40332	211	191...	YES	4.89	0.96	4.86	4.93	4577.0346	572.1		30297	65096
2	BDE-2		42526.906	32242	10285	3.13	YES	5.00	0.98	4.96	5.03	3267.5711	408.4		30297	65096
3	BDE-3		39336.028	32028	7308	4.38	YES	5.11	1.00	5.08	5.15	2515.0043	314.4		30297	65096
4	*BDE-10		6263.635	2014	4249	0.47	NO	6.33	0.89	6.30	6.37	89.089609	11.1		385	583
5	BDE-7		16325.004	5486	10839	0.51	NO	6.71	0.94	6.67	6.74	230.65942	28.8		385	583
6	BDE-8/BDE-11		150521.328	49013	101509	0.48	NO	6.88	0.96	6.85	6.91	1482.9161	92.7		385	583
7	BDE-12/BDE-13		317890.985	163606	154285	1.06	YES	6.97	0.98	6.94	7.01	2709.9750	169.4		385	583
8	BDE-15		111680.012	36738	74942	0.49	NO	7.14	1.00	7.11	7.17	802.73670	100.3		385	583
9	*BDE-30		15951.464	8036	7915	1.02	NO	7.84	0.90	7.80	7.87	274.93614	34.4		930	1233
10	BDE-32		64700.315	32368	32332	1.00	NO	8.28	0.96	8.25	8.32	814.69212	101.8		930	1233
11	BDE-17/BDE-25		98652.968	50136	48517	1.03	NO	8.45	0.97	8.42	8.48	1619.5023	101.2		930	1233
12	BDE-28/BDE-33		105310.355	52828	52482	1.01	NO	8.67	1.00	8.64	8.71	1660.5396	103.8		930	1233
13	BDE-35		73641.523	36973	36669	1.01	NO	8.83	1.02	8.79	8.86	841.05971	105.1		930	1233
14	BDE-37		73810.578	37596	36214	1.04	NO	9.02	1.04	8.98	9.05	842.66021	105.3		930	1233
15	*PBEB		65953.221	33326	32627	1.02	NO	9.03	0.90	8.99	9.06	633.12071	79.1		382	285
16	*PBB-52		71497.418	42580	28917	1.47	NO	9.13	0.91	9.09	9.16	679.37979	84.9		1157	448
17	*HBB		72946.439	20902	52044	0.40	NO	10.01	1.00	9.98	10.04	835.76299	104.5		338	421
18	*BDE-75		53594.715	21055	32539	0.65	NO	10.07	0.95	10.04	10.10	775.57428	96.9		1181	950
19	BDE-51		60050.787	23748	36303	0.65	NO	10.13	0.96	10.10	10.17	732.54080	91.6		1181	950
20	BDE-49		38211.756	14533	23678	0.61	NO	10.23	0.97	10.20	10.27	731.70650	91.5		1181	950
21	BDE-71		34817.531	13876	20942	0.66	NO	10.29	0.98	10.26	10.33	648.84592	81.1		1181	950
22	BDE-47		52563.486	20808	31756	0.66	NO	10.57	1.00	10.53	10.60	817.87541	102.2		1181	950
23	BDE-79		72988.616	28953	44036	0.66	NO	10.73	1.02	10.70	10.76	893.55953	111.7		1181	950
24	BDE-66		41847.517	16539	25309	0.65	NO	10.85	1.03	10.82	10.89	872.45675	109.1		1181	950
25	BDE-77		66477.916	26552	39926	0.67	NO	11.33	1.00	11.29	11.36	814.59000	101.8		1181	950
26	*PBB-101		139467.133	72023	67444	1.07	NO	11.46	1.01	11.43	11.50	1436.8349	89.8		712	536
27	*BDE-100		87357.688	43846	43512	1.01	NO	12.21	1.00	12.18	12.24	1232.1750	102.7		1136	830
28	BDE-119/BDE-120		80499.804	40034	40466	0.99	NO	12.38	1.02	12.35	12.42	2341.6288	97.6		1136	830
29	BDE-99		56675.174	28708	27967	1.03	NO	12.71	1.00	12.67	12.74	1256.1976	104.7		1136	830
30	BDE-116		14637.613	7574	7064	1.07	NO	12.87	1.01	12.83	12.90	653.90970	54.5		1136	830
31	BDE-83		27397.931	13982	13416	1.04	NO	12.99	1.02	12.96	13.03	1085.6846	90.5		1136	830
32	BDE-118		35930.305	18639	17291	1.08	NO	13.12	1.03	13.08	13.15	1249.7057	104.1		1136	830
33	BDE-85		41843.435	21229	20614	1.03	NO	13.60	0.99	13.57	13.63	1259.8228	105.0		1136	830
34	BDE-126		66812.133	33643	33169	1.01	NO	13.77	1.00	13.74	13.81	1214.1877	101.2		1136	830

Quantify Sample Summary Report **MassLynx MassLynx V4.1 SCN 901**

Dataset: I:\Organics Instrument\HIGHRES GCMS Completed Results Files\HR-10\2021\2109\10-210913B-Q1-PBDE.qld

Last Altered: Thursday, September 16, 2021 14:59:12 Eastern Daylight Time
Printed: Friday, September 17, 2021 12:20:40 Eastern Daylight Time

Name: 10-210913B09, Date: 13-Sep-2021, Time: 21:51:47, ID: WG3603654-2, Description: LCS, Vial: Tray1:14

	Target Analyte	#Hom	Total Area	Ion1 Area	Ion2 Area	Ra	Ra Fail=YES	RT	RRT	RT LCL	RT UCL	Conc.	%Rec	Mod.Comment	Noise 1	Noise 2
35	BDE-105		36499.586	18504	17996	1.03	NO	13.92	1.01	13.89	13.96	1257.1726	104.8		1136	830
36	*PBB-153		103671.043	60001	43670	1.37	NO	14.10	1.00	14.06	14.13	2226.2671	139.1		517	787
37	*BDE-155		130100.266	75840	54260	1.40	NO	13.76	0.97	13.73	13.80	2251.9749	140.7		810	468
38	BDE-154		111390.211	64844	46546	1.39	NO	14.15	1.00	14.11	14.18	1702.4482	106.4		810	468
39	*BDE-153		1224.095	722	502	1.44	NO	14.88	1.00	14.85	14.92	1724.0528	107.8		1280	943
40	BDE-140		8640.105	5105	3535	1.44	NO	15.34	1.01	15.31	15.37	331.57015	20.7		1280	943
41	BDE-138/BDE-166		18338.443	10815	7524	1.44	NO	15.84	1.06	15.81	15.88	1276.5466	39.9		1280	943
42	BDE-156		9752.783	5666	4087	1.39	NO	16.22	1.09	16.18	16.25	1050.2122	65.6		1280	943
43	BDE-128		14593.509	8472	6121	1.38	NO	16.82	0.99	16.79	16.86	1374.9541	85.9		1280	943
44	*BDE-184		40839.465	20087	20753	0.97	NO	16.64	0.98	16.60	16.67	1951.0742	97.6		556	677
45	BDE-183		28262.534	14105	14157	1.00	NO	17.01	1.00	16.98	17.04	2006.8760	100.3		556	677
46	BDE-191		17586.152	8589	8998	0.95	NO	17.57	1.03	17.54	17.61	2020.9076	101.0		556	677
47	BDE-181		13254.914	6609	6646	0.99	NO	18.12	1.01	18.09	18.16	1503.1980	75.2		556	677
48	BDE-190		7299.471	3743	3557	1.05	NO	18.27	1.02	18.24	18.31	1225.3196	61.3		556	677
49	*PBB-180		19101.953	9863	9239	1.07	NO	17.12	0.96	17.08	17.15	1465.1375	91.6		736	415
50	*BDE-197		16778.839	7561	9218	0.82	NO	19.49	1.00	19.46	19.52	1929.4063	96.5		611	359
51	BDE-203		9337.256	4026	5311	0.76	NO	19.77	1.01	19.73	19.80	1475.6536	73.8		611	359
52	BDE-196		10748.516	4701	6047	0.78	NO	19.89	1.02	19.86	19.93	1480.9347	74.0		611	359
53	*PBB-194		6031.818	3360	2672	1.26	NO	19.97	1.02	19.94	20.00	1067.6808	66.7		345	242
54	*BDE-208		7499.327	3781	3718	1.02	NO	21.23	0.99	21.19	21.26	4733.5730	118.3	EG210914MB	676	277
55	BDE-207		7169.263	3764	3405	1.11	NO	21.34	1.00	21.31	21.38	3906.1018	97.7	EG210914MB	676	277
56	BDE-206		3131.871	1578	1554	1.02	NO	21.61	1.01	21.58	21.65	2258.0426	56.5		676	277
57	*PBB-206		2719.909	1498	1222	1.23	YES	21.07	0.99	21.04	21.11	4322.0849	108.1		500	692
58	*PBB-209		474.062	258	216	1.19	NO	21.97	1.03	21.93	22.00	658.99257	16.5		365	284
59	*BDE-209														204	134
60	*DBDPE														187	363
61	13C12-BDE-3		39274.932	19410	19865	0.98	NO	5.10	0.48	5.07	5.14	57.139186	2.9		1315	2226
62	13C12-BDE-15		328218.110	109100	219118	0.50	NO	7.13	0.67	7.10	7.16	875.34166	43.8		2311	4473
63	13C12-BDE-28		189703.422	94960	94743	1.00	NO	8.67	0.81	8.64	8.71	1111.1185	55.6		1128	873
64	13C6-HBB		166675.090	120304	46371	2.59	NO	10.00	0.93	9.96	10.03	1356.2415	67.8		634	707
65	13C12-BDE-47		153153.832	93185	59969	1.55	NO	10.56	0.98	10.52	10.59	1293.2978	64.7		1225	1368
66	13C12-BDE-77		206158.821	124888	81271	1.54	NO	11.31	1.06	11.28	11.35	1652.3108	82.6		1225	1368
67	13C12-BDE-100		185882.930	93543	92340	1.01	NO	12.20	0.81	12.16	12.23	16642.900	832.1		1335	1154
68	13C12-BDE-99		109521.066	54767	54754	1.00	NO	12.71	0.84	12.67	12.74	16723.507	836.2		1335	1154
69	13C12-BDE-126		140519.149	70555	69964	1.01	NO	13.76	0.91	13.73	13.80	19069.012	953.5		1335	1154
70	13C12-BDE-154		143036.122	82246	60790	1.35	NO	14.13	0.93	14.10	14.17	15850.793	792.5		1104	600
71	13C12-BDE-153		1224.872	774	450	1.72	YES	14.88	0.98	14.85	14.92	401.35274	20.1		1190	632

Quantify Sample Summary Report **MassLynx MassLynx V4.1 SCN 901**

Dataset: I:\Organics Instrument\HIGHRES GCMS Completed Results Files\HR-10\2021\2109\10-210913B-Q1-PBDE.qld

Last Altered: Thursday, September 16, 2021 14:59:12 Eastern Daylight Time
Printed: Friday, September 17, 2021 12:20:40 Eastern Daylight Time

Name: 10-210913B09, Date: 13-Sep-2021, Time: 21:51:47, ID: WG3603654-2, Description: LCS, Vial: Tray1:14

	Target Analyte	#Hom	Total Area	Ion1 Area	Ion2 Area	Ra	Ra Fail=YES	RT	RRT	RT LCL	RT UCL	Conc.	%Rec	Mod.Comment	Noise 1	Noise 2
72	13C12-BDE-183		37712.639	18995	18718	1.01	NO	17.01	0.95	16.98	17.04	1507.1694	75.4		559	465
73	13C12-BDE-197		44220.539	19592	24629	0.80	NO	19.49	1.09	19.46	19.52	2290.3048	57.3		1114	667
74	13C12-BDE-207		20184.643	10078	10107	1.00	NO	21.34	0.99	21.31	21.38	12683.101	126.8		1122	534
75	13C12-BDE-209														180	226
76	13C14-DBDPE														466	978
77	13C12-BDE-138 (CL)		18088.465	10624	7464	1.42	NO	15.83	1.05	15.80	15.86	7038.9166	351.9		1190	632
78	13C12-BDE-79 (IS)		271970.196	165272	106699	1.55	NO	10.72	0.71	10.68	10.75	31.175321	1.6		1225	1368
79	13C12-BDE-139 (IS)		7178.941	4110	3069	1.34	NO	15.14	0.00	15.11	15.17	2.8486781	0.1		1190	632
80	13C12-BDE-180 (IS)		23677.765	11613	12064	0.96	NO	17.88	1.18	17.84	17.91	20.146850	1.0		559	465
81	13C12-BDE-206 (IS)		11983.485	6258	5726	1.09	NO	21.61	1.43	21.58	21.65	8.3000600	0.1		1122	534
82	Total MoF1	3		104602								10359.610			30297	
83	Total DiF2	5		256857								5315.3769			385	
84	Total TriF3	6		217938								6053.3901			930	
85	Total PBEBF3	1		33326								633.12071			382	
86	Total TePBBF3	1		42580								679.37979			1157	
87	Total HBBF4	1		20902								835.76299			338	
88	Total TetraF4	8		166063								6287.1492			1181	
89	Total PePBBF4	1		72023								1436.8349			712	
90	Total PentaF5	9		226158								11550.485			1136	
91	Total PBB-153	1		60001								2226.2671			517	
92	Total HexaF5	2		140684								3954.4231			810	
93	Total HexaF6	5		30779								5757.3359			1280	
94	Total HeptaF6	5		53132								8707.3755			556	
95	Total PBB-180	1		9863								1465.1375			736	
96	Total OctaF7	3		16288								4885.9947			611	
97	Total PBB-194	1		3360								1067.6808			345	
98	Total NonaF8	3		9123								10897.717			676	
99	Total PBB-206	1		1498								4322.0849			500	
100	Total PBB-209	1		258								658.99257			365	
101	Total DecaF9			0											204	
102	Total DBDPEF10															
103	Total 13CMoF1	1		19410								57.139186			1315	
104	Total 13CDiF2	1		109100								875.34166			2311	
105	Total 13CTriF3	1		94960								1111.1185			1128	
106	Total 13CHBBF4	1		120304								1356.2415			634	
107	Total 13CTetraF4	3		383345								2976.7839			1225	
108	Total 13CPentaF5	3		218866								52435.418			1335	

Quantify Sample Summary Report **MassLynx MassLynx V4.1 SCN 901**

Dataset: I:\Organics Instrument\HIGHRES GCMS Completed Results Files\HR-10\2021\2109\10-210913B-Q1-PBDE.qld

Last Altered: Thursday, September 16, 2021 14:59:12 Eastern Daylight Time
Printed: Friday, September 17, 2021 12:20:40 Eastern Daylight Time

Name: 10-210913B09, Date: 13-Sep-2021, Time: 21:51:47, ID: WG3603654-2, Description: LCS, Vial: Tray1:14

	Target Analyte	#Hom	Total Area	Ion1 Area	Ion2 Area	Ra	Ra Fail=YES	RT	RRT	RT LCL	RT UCL	Conc.	%Rec	Mod.Comment	Noise 1	Noise 2
109	Total 13CHexaF5	1		82246								15850.793			1104	
110	Total 13CHexaF6	3		15508								7443.1181			1190	
111	Total 13CHeptaF6	2		30608								1527.3162			559	
112	Total 13COctaF7	1		19592								2290.3048			1114	
113	Total 13CNonaF8	2		16336								12691.401			1122	
114	Total 13CDecaF9			0											180	
115	Total 13CDBDPEF10															
116	Lockmass F1			0											288083	
117	Lockmass F2			0											490006	
118	Lockmass F3			0											444976	
119	Lockmass F4			0											87058	
120	Lockmass F5			0											67024	
121	Lockmass F6			0											29625	
122	Lockmass F7			0											22945	
123	Lockmass F8			0											24702	
124	Lockmass F9			0											21871	
125	Lockmass F10															

Quantify Sample Summary Report **MassLynx MassLynx V4.1 SCN 901**

Dataset: I:\Organics Instrument\HIGHRES GCMS Completed Results Files\HR-10\2021\2109\10-210913B-Q1-PBDE.qld

Last Altered: Thursday, September 16, 2021 14:59:12 Eastern Daylight Time
Printed: Friday, September 17, 2021 12:20:40 Eastern Daylight Time

Name: 10-210913B14, Date: 14-Sep-2021, Time: 00:46:04, ID: WG3603654-1, Description: MBLANK, Vial: Tray1:17

	Target Analyte	#Hom	Total Area	Ion1 Area	Ion2 Area	Ra	Ra Fail=YES	RT	RRT	RT LCL	RT UCL	Conc.	%Rec	Mod.Comment	Noise 1	Noise 2
1	*BDE-1														33644	36425
2	BDE-2														33644	36425
3	BDE-3														33644	36425
4	*BDE-10														301	530
5	BDE-7														301	530
6	BDE-8/BDE-11														301	530
7	BDE-12/BDE-13														301	530
8	BDE-15														301	530
9	*BDE-30														662	844
10	BDE-32														662	844
11	BDE-17/BDE-25														662	844
12	BDE-28/BDE-33														662	844
13	BDE-35														662	844
14	BDE-37														662	844
15	*PBEB														406	328
16	*PBB-52														801	416
17	*HBB		246.292	67	179	0.38	NO	10.02	1.00	9.99	10.05	2.5484878		EG210914MA	351	386
18	*BDE-75														253	372
19	BDE-51														253	372
20	BDE-49														253	372
21	BDE-71														253	372
22	BDE-47		697.344	289	408	0.71	NO	10.57	1.00	10.53	10.60	9.4423640			253	372
23	BDE-79														253	372
24	BDE-66														253	372
25	BDE-77														253	372
26	*PBB-101														417	564
27	*BDE-100		142.791	70	73	0.96	NO	12.21	1.00	12.18	12.24	1.7673178		EG210914MA	333	364
28	BDE-119/BDE-120														333	364
29	BDE-99		505.045	278	227	1.23	YES	12.71	1.00	12.67	12.74	9.4504420			333	364
30	BDE-116														333	364
31	BDE-83														333	364
32	BDE-118														333	364
33	BDE-85														333	364
34	BDE-126														333	364
35	BDE-105														333	364
36	*PBB-153														365	707
37	*BDE-155														766	277

Name: 10-210913B14, Date: 14-Sep-2021, Time: 00:46:04, ID: WG3603654-1, Description: MBLANK, Vial: Tray1:17

	Target Analyte	#Hom	Total Area	Ion1 Area	Ion2 Area	Ra	Ra Fail=YES	RT	RRT	RT LCL	RT UCL	Conc.	%Rec	Mod.Comment	Noise 1	Noise 2
38	BDE-154														766	277
39	*BDE-153														834	283
40	BDE-140														834	283
41	BDE-138/BDE-166														834	283
42	BDE-156														834	283
43	BDE-128														834	283
44	*BDE-184														182	253
45	BDE-183														182	253
46	BDE-191														182	253
47	BDE-181														182	253
48	BDE-190														182	253
49	*PBB-180														644	376
50	*BDE-197														196	333
51	BDE-203														196	333
52	BDE-196														196	333
53	*PBB-194														151	216
54	*BDE-208														441	416
55	BDE-207		147.004	87	60	1.44	YES	21.34	1.00	21.31	21.38	9.1454614		EG210914MA	441	416
56	BDE-206		101.482	54	48	1.13	NO	21.61	1.01	21.58	21.65	8.3545815		EG210914MA	441	416
57	*PBB-206														282	545
58	*PBB-209														210	174
59	*BDE-209		207.872	118	90	1.31	NO	23.28	1.00	23.24	23.31	53.258180		EG210914MA	291	153
60	*DBDPE		214.042	78	136	0.57	YES	24.66	1.00	24.63	24.69	78.717025		EG210914MA	192	362
61	13C12-BDE-3		47696.657	23275	24421	0.95	NO	5.10	0.48	5.07	5.14	58.352861	2.9		1005	2392
62	13C12-BDE-15		367961.180	121848	246113	0.50	NO	7.14	0.67	7.11	7.17	825.22555	41.3		2242	5707
63	13C12-BDE-28		226097.930	112584	113514	0.99	NO	8.68	0.81	8.65	8.72	1113.6210	55.7		994	701
64	13C6-HBB		184551.457	134192	50359	2.66	NO	10.01	0.93	9.98	10.04	1262.8140	63.1		477	731
65	13C12-BDE-47		175993.727	107375	68619	1.56	NO	10.57	0.98	10.53	10.60	1249.7509	62.5		1123	1892
66	13C12-BDE-77		242146.289	147246	94901	1.55	NO	11.33	1.06	11.29	11.36	1632.0116	81.6		1123	1892
67	13C12-BDE-100		211834.625	107170	104665	1.02	NO	12.20	0.81	12.16	12.23	1230.2385	61.5		1231	942
68	13C12-BDE-99		129730.090	65166	64564	1.01	NO	12.71	0.84	12.67	12.74	1284.9117	64.2		1231	942
69	13C12-BDE-126		172003.578	85856	86148	1.00	NO	13.76	0.91	13.73	13.80	1514.0250	75.7		1231	942
70	13C12-BDE-154		173754.922	101106	72649	1.39	NO	14.15	0.93	14.11	14.18	1248.9506	62.4		1090	378
71	13C12-BDE-153		67170.900	39746	27425	1.45	NO	14.88	0.98	14.85	14.92	1427.6428	71.4		1236	1020
72	13C12-BDE-183		73222.028	36265	36957	0.98	NO	17.01	0.95	16.98	17.04	1362.3331	68.1		677	467
73	13C12-BDE-197		100785.109	45412	55373	0.82	NO	19.49	1.09	19.46	19.52	2430.1441	60.8		440	457
74	13C12-BDE-207		176772.070	89168	87605	1.02	NO	21.34	0.99	21.31	21.38	7518.4539	75.2		2099	1410

Quantify Sample Summary Report **MassLynx MassLynx V4.1 SCN 901**

Dataset: I:\Organics Instrument\HIGHRES GCMS Completed Results Files\HR-10\2021\2109\10-210913B-Q1-PBDE.qld

Last Altered: Thursday, September 16, 2021 14:59:12 Eastern Daylight Time
Printed: Friday, September 17, 2021 12:20:40 Eastern Daylight Time

Name: 10-210913B14, Date: 14-Sep-2021, Time: 00:46:04, ID: WG3603654-1, Description: MBLANK, Vial: Tray1:17

	Target Analyte	#Hom	Total Area	Ion1 Area	Ion2 Area	Ra	Ra Fail=YES	RT	RRT	RT LCL	RT UCL	Conc.	%Rec	Mod.Comment	Noise 1	Noise 2
75	13C12-BDE-209		40423.322	22550	17874	1.26	NO	23.27	1.08	23.23	23.30	6668.5900	66.7		743	1177
76	13C14-DBDPE		61057.004	31086	29971	1.04	NO	24.65	1.14	24.61	24.68	13500.583	67.5		701	982
77	13C12-BDE-138 (CL)		64603.535	38504	26099	1.48	NO	15.83	1.05	15.80	15.86	1630.6594	81.5		1236	1020
78	13C12-BDE-79 (IS)		323419.133	198030	125390	1.58	NO	10.73	0.71	10.70	10.76	37.072795	1.9		1123	1892
79	13C12-BDE-139 (IS)		110677.035	64210	46467	1.38	NO	15.14	0.00	15.11	15.17	43.917793	2.2		1236	1020
80	13C12-BDE-180 (IS)		50859.758	25164	25696	0.98	NO	17.88	1.18	17.84	17.91	43.275366	2.2		677	467
81	13C12-BDE-206 (IS)		177040.500	88724	88317	1.00	NO	21.61	1.43	21.58	21.65	122.62266	1.2		2099	1410
82	Total MoF1			0											33644	
83	Total DiF2			0											301	
84	Total TriF3			0											662	
85	Total PBEBF3			0											406	
86	Total TePBBF3			0											801	
87	Total HBBF4	1		67								2.5484878			351	
88	Total TetraF4	1		289								9.4423640			253	
89	Total PePBBF4			0											417	
90	Total PentaF5	2		348								11.217760			333	
91	Total PBB-153			0											365	
92	Total HexaF5			0											766	
93	Total HexaF6			0											834	
94	Total HeptaF6			0											182	
95	Total PBB-180			0											644	
96	Total OctaF7			0											196	
97	Total PBB-194			0											151	
98	Total NonaF8	2		141								17.500043			441	
99	Total PBB-206			0											282	
100	Total PBB-209			0											210	
101	Total DecaF9	1		118								53.258180			291	
102	Total DBDPEF10															
103	Total 13CMoF1	1		23275								58.352861			1005	
104	Total 13CDiF2	1		121848								825.22555			2242	
105	Total 13CTriF3	1		112584								1113.6210			994	
106	Total 13CHBBF4	1		134192								1262.8140			477	
107	Total 13CTetraF4	3		452650								2918.8353			1123	
108	Total 13CPentaF5	3		258191								4029.1751			1231	
109	Total 13CHexaF5	1		101106								1248.9506			1090	
110	Total 13CHexaF6	3		142460								3102.2200			1236	
111	Total 13CHeptaF6	2		61429								1405.6085			677	

Quantify Sample Summary Report **MassLynx MassLynx V4.1 SCN 901**

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Last Altered: Thursday, September 16, 2021 14:59:12 Eastern Daylight Time
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Name: 10-210913B14, Date: 14-Sep-2021, Time: 00:46:04, ID: WG3603654-1, Description: MBLANK, Vial: Tray1:17

	Target Analyte	#Hom	Total Area	Ion1 Area	Ion2 Area	Ra	Ra Fail=YES	RT	RRT	RT LCL	RT UCL	Conc.	%Rec	Mod.Comment	Noise 1	Noise 2
112	Total 13COctaF7	1		45412								2430.1441			440	
113	Total 13CNonaF8	2		177891								7641.0765			2099	
114	Total 13CDecaF9	1		22550								6668.5900			743	
115	Total 13CDBDPEF10															
116	Lockmass F1			0											237985	
117	Lockmass F2			0											525938	
118	Lockmass F3			0											387809	
119	Lockmass F4			0											94201	
120	Lockmass F5			0											75099	
121	Lockmass F6			0											27494	
122	Lockmass F7			0											19984	
123	Lockmass F8			0											25584	
124	Lockmass F9			0											26581	
125	Lockmass F10															

Quantify Sample Summary Report **MassLynx MassLynx V4.1 SCN 901**

Dataset: I:\Organics Instrument\HIGHRES GCMS Completed Results Files\HR-10\2021\2109\10-210913B-Q1-PBDE.qld

Last Altered: Thursday, September 16, 2021 14:59:12 Eastern Daylight Time
Printed: Friday, September 17, 2021 12:20:40 Eastern Daylight Time

Name: 10-210913B17, Date: 14-Sep-2021, Time: 02:30:38, ID: L2625428-1, Description: SAMPLE, Vial: Tray1:20

	Target Analyte	#Hom	Total Area	Ion1 Area	Ion2 Area	Ra	Ra Fail=YES	RT	RRT	RT LCL	RT UCL	Conc.	%Rec	Mod.Comment	Noise 1	Noise 2
1	*BDE-1		63932.312	4630	59302	0.08	YES	4.87	0.96	4.84	4.90	9163.4083			28435	32442
2	BDE-2		61953.424	11467	50486	0.23	YES	4.98	0.98	4.94	5.01	6043.5400			28435	32442
3	BDE-3		39074.270	3884	35190	0.11	YES	5.12	1.01	5.09	5.16	3171.7864			28435	32442
4	*BDE-10														503	575
5	BDE-7														503	575
6	BDE-8/BDE-11														503	575
7	BDE-12/BDE-13		1312.113	440	872	0.50	NO	7.13	1.00	7.10	7.16	7.8085879			503	575
8	BDE-15														503	575
9	*BDE-30														1727	715
10	BDE-32														1727	715
11	BDE-17/BDE-25		3778.951	1997	1782	1.12	NO	8.44	0.97	8.40	8.47	43.742644			1727	715
12	BDE-28/BDE-33		14181.845	7012	7170	0.98	NO	8.67	1.00	8.64	8.71	157.67879			1727	715
13	BDE-35														1727	715
14	BDE-37		444.263	240	204	1.18	NO	9.01	1.04	8.97	9.04	3.5763202		EG210914MA	1727	715
15	*PBEB		486.611	238	248	0.96	NO	9.02	0.90	8.98	9.05	3.9391643			330	306
16	*PBB-52														731	389
17	*HBB		538.485	150	389	0.39	NO	10.01	1.00	9.98	10.04	5.2026465		EG210914MA	418	393
18	*BDE-75		984.164	426	558	0.76	NO	10.06	0.95	10.03	10.09	11.095296		EG210914MB	645	1109
19	BDE-51		1700.112	744	956	0.78	NO	10.12	0.96	10.09	10.15	16.156997		EG210914MB	645	1109
20	BDE-49		11354.595	4357	6997	0.62	NO	10.22	0.97	10.19	10.25	169.38758			645	1109
21	BDE-71		863.604	353	511	0.69	NO	10.28	0.97	10.25	10.32	12.537999			645	1109
22	BDE-47		782117.532	313629	468488	0.67	NO	10.56	1.00	10.52	10.59	9018.6724		EG210914MB	645	1109
23	BDE-79		1766.814	749	1018	0.74	NO	10.69	1.01	10.66	10.73	16.851136			645	1109
24	BDE-66		8450.544	3218	5233	0.62	NO	10.84	1.03	10.81	10.88	137.25522			645	1109
25	BDE-77														645	1109
26	*PBB-101														532	432
27	*BDE-100		135195.476	68251	66945	1.02	NO	12.20	1.00	12.16	12.23	1634.0939			497	477
28	BDE-119/BDE-120		1479.673	706	774	0.91	NO	12.30	1.01	12.26	12.33	34.748850			497	477
29	BDE-99		510850.219	258365	252485	1.02	NO	12.69	1.00	12.66	12.73	8733.0956		EG210914MB	497	477
30	BDE-116														497	477
31	BDE-83														497	477
32	BDE-118		711.526	323	389	0.83	YES	13.10	1.03	13.07	13.14	19.979706		EG210914MB	497	477
33	BDE-85		12555.242	6273	6282	1.00	NO	13.60	0.99	13.57	13.63	305.18184		EG210914MB	497	477
34	BDE-126														497	477
35	BDE-105														497	477
36	*PBB-153		1323.232	850	473	1.79	YES	14.09	1.00	14.05	14.12	16.353000			506	696
37	*BDE-155		2563.334	1571	992	1.58	YES	13.76	0.97	13.73	13.80	25.534785		EG210914MB	616	364

Quantify Sample Summary Report **MassLynx MassLynx V4.1 SCN 901**

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Last Altered: Thursday, September 16, 2021 14:59:12 Eastern Daylight Time
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Name: 10-210913B17, Date: 14-Sep-2021, Time: 02:30:38, ID: L2625428-1, Description: SAMPLE, Vial: Tray1:20

	Target Analyte	#Hom	Total Area	Ion1 Area	Ion2 Area	Ra	Ra Fail=YES	RT	RRT	RT LCL	RT UCL	Conc.	%Rec	Mod.Comment	Noise 1	Noise 2
38	BDE-154		40723.654	23643	17081	1.38	NO	14.13	1.00	14.10	14.17	494.46489		EG210914MB	616	364
39	*BDE-153		23091.261	13754	9337	1.47	NO	14.87	1.00	14.84	14.91	564.03368		EG210914MB	1117	412
40	BDE-140		785.585	386	400	0.97	YES	15.33	1.01	15.29	15.36	17.349670		EG210914MB	1117	412
41	BDE-138/BDE-166		2223.067	1281	942	1.36	NO	15.83	1.06	15.80	15.86	89.057073		EG210914MB	1117	412
42	BDE-156														1117	412
43	BDE-128														1117	412
44	*BDE-184														318	340
45	BDE-183		2341.519	1099	1243	0.88	NO	17.01	1.00	16.98	17.04	76.502458		EG210914MB	318	340
46	BDE-191														318	340
47	BDE-181														318	340
48	BDE-190														318	340
49	*PBB-180														732	354
50	*BDE-197		599.882	259	341	0.76	NO	19.49	1.00	19.46	19.52	21.886850			287	432
51	BDE-203		612.926	283	330	0.86	NO	19.75	1.01	19.72	19.79	30.734691		EG210914MB	287	432
52	BDE-196		520.806	270	250	1.08	YES	19.89	1.02	19.86	19.93	22.767694		EG210914MB	287	432
53	*PBB-194														192	269
54	*BDE-208		1319.772	716	604	1.18	NO	21.23	0.99	21.19	21.26	62.212104			869	404
55	BDE-207		2060.616	1112	949	1.17	NO	21.34	1.00	21.31	21.38	83.844640		EG210914MA	869	404
56	BDE-206		2999.856	1562	1438	1.09	NO	21.61	1.01	21.58	21.65	161.52430			869	404
57	*PBB-206														224	405
58	*PBB-209														192	242
59	*BDE-209		11358.511	6399	4959	1.29	NO	23.27	1.00	23.23	23.30	1434.1282			265	205
60	*DBDPE		8592.191	4436	4157	1.07	NO	24.65	1.00	24.61	24.68	1587.6143		EG210914MB	242	377
61	13C12-BDE-3		30935.035	14894	16042	0.93	NO	5.09	0.48	5.06	5.12	30.394145	1.5		1283	2625
62	13C12-BDE-15		470162.891	156301	313862	0.50	NO	7.12	0.66	7.09	7.15	846.80637	42.3		2538	5053
63	13C12-BDE-28		269037.485	134955	134083	1.01	NO	8.66	0.81	8.63	8.69	1064.1889	53.2		793	1130
64	13C6-HBB		197651.008	142655	54996	2.59	NO	10.00	0.93	9.96	10.03	1086.1406	54.3		385	478
65	13C12-BDE-47		206661.828	125091	81571	1.53	NO	10.56	0.98	10.52	10.59	1178.5599	58.9		1393	1589
66	13C12-BDE-77		254552.211	155122	99431	1.56	NO	11.31	1.06	11.28	11.35	1377.8039	68.9		1393	1589
67	13C12-BDE-100		216918.156	109590	107328	1.02	NO	12.18	0.81	12.15	12.22	1007.0929	50.4		806	928
68	13C12-BDE-99		141999.930	72390	69610	1.04	NO	12.69	0.84	12.66	12.73	1124.3511	56.2		806	928
69	13C12-BDE-126		181038.032	92286	88752	1.04	NO	13.76	0.91	13.73	13.80	1273.9332	63.7		806	928
70	13C12-BDE-154		180046.164	104389	75657	1.38	NO	14.13	0.93	14.10	14.17	1034.6019	51.7		902	405
71	13C12-BDE-153		70626.674	41123	29504	1.39	NO	14.87	0.98	14.84	14.91	1200.0198	60.0		885	885
72	13C12-BDE-183		81963.156	41143	40820	1.01	NO	17.00	0.95	16.97	17.03	1048.8063	52.4		483	501
73	13C12-BDE-197		139369.707	62390	76980	0.81	NO	19.48	1.09	19.44	19.51	2311.2083	57.8		447	614
74	13C12-BDE-207		270278.735	134933	135346	1.00	NO	21.34	0.99	21.31	21.38	5603.2116	56.0		1697	2501

Quantify Sample Summary Report **MassLynx MassLynx V4.1 SCN 901**

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Name: 10-210913B17, Date: 14-Sep-2021, Time: 02:30:38, ID: L2625428-1, Description: SAMPLE, Vial: Tray1:20

	Target Analyte	#Hom	Total Area	Ion1 Area	Ion2 Area	Ra	Ra Fail=YES	RT	RRT	RT LCL	RT UCL	Conc.	%Rec	Mod.Comment	Noise 1	Noise 2
75	13C12-BDE-209		82026.800	46367	35660	1.30	NO	23.26	1.08	23.22	23.29	6595.8084	66.0		1120	674
76	13C14-DBDPE		121524.570	61551	59973	1.03	NO	24.64	1.14	24.60	24.67	13097.589	65.5		607	1158
77	13C12-BDE-138 (CL)		70588.055	42205	28383	1.49	NO	15.82	1.05	15.79	15.85	1424.3590	71.2		885	885
78	13C12-BDE-79 (IS)		402717.594	244780	157937	1.55	NO	10.72	0.71	10.68	10.75	46.162596	2.3		1393	1589
79	13C12-BDE-139 (IS)		138444.672	80539	57906	1.39	NO	15.13	0.00	15.10	15.16	54.936278	2.7		885	885
80	13C12-BDE-180 (IS)		73950.183	36560	37391	0.98	NO	17.86	1.18	17.83	17.90	62.922462	3.1		483	501
81	13C12-BDE-206 (IS)		363213.829	182432	180782	1.01	NO	21.60	1.43	21.57	21.64	251.57094	2.5		1697	2501
82	Total MoF1	3		19982								18378.735			28435	
83	Total DiF2	1		440								7.8085879			503	
84	Total TriF3	3		9249								204.99775			1727	
85	Total PBEBF3	1		238								3.9391643			330	
86	Total TePBBF3			0											731	
87	Total HBBF4	1		150								5.2026465			418	
88	Total TetraF4	7		323477								9381.9567			645	
89	Total PePBBF4			0											532	
90	Total PentaF5	5		333918								10727.100			497	
91	Total PBB-153	1		850								16.353000			506	
92	Total HexaF5	2		25214								519.99968			616	
93	Total HexaF6	3		15421								670.44042			1117	
94	Total HeptaF6	1		1099								76.502458			318	
95	Total PBB-180			0											732	
96	Total OctaF7	3		812								75.389235			287	
97	Total PBB-194			0											192	
98	Total NonaF8	3		3389								307.58104			869	
99	Total PBB-206			0											224	
100	Total PBB-209			0											192	
101	Total DecaF9	1		6399								1434.1282			265	
102	Total DBDPEF10															
103	Total 13CMoF1	1		14894								30.394145			1283	
104	Total 13CDiF2	1		156301								846.80637			2538	
105	Total 13CTriF3	1		134955								1064.1889			793	
106	Total 13CHBBF4	1		142655								1086.1406			385	
107	Total 13CTetraF4	3		524993								2602.5263			1393	
108	Total 13CPentaF5	3		274266								3405.3771			806	
109	Total 13CHexaF5	1		104389								1034.6019			902	
110	Total 13CHexaF6	3		163866								2679.3151			885	
111	Total 13CHeptaF6	2		77703								1111.7287			483	

Quantify Sample Summary Report **MassLynx MassLynx V4.1 SCN 901**

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Name: 10-210913B17, Date: 14-Sep-2021, Time: 02:30:38, ID: L2625428-1, Description: SAMPLE, Vial: Tray1:20

	Target Analyte	#Hom	Total Area	Ion1 Area	Ion2 Area	Ra	Ra Fail=YES	RT	RRT	RT LCL	RT UCL	Conc.	%Rec	Mod.Comment	Noise 1	Noise 2
112	Total 13COctaF7	1		62390								2311.2083			447	
113	Total 13CNonaF8	2		317365								5854.7825			1697	
114	Total 13CDecaF9	1		46367								6595.8084			1120	
115	Total 13CDBDPEF10															
116	Lockmass F1			0											161703	
117	Lockmass F2			0											550547	
118	Lockmass F3			0											389732	
119	Lockmass F4			0											129766	
120	Lockmass F5			0											56068	
121	Lockmass F6			0											26114	
122	Lockmass F7			0											17507	
123	Lockmass F8			0											13557	
124	Lockmass F9			0											22286	
125	Lockmass F10															

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Dataset: I:\Organics Instrument\HIGHRES GCMS Completed Results Files\HR-10\2021\2109\10-210913B-Q1-PBDE.qld

Last Altered: Thursday, September 16, 2021 14:59:12 Eastern Daylight Time
Printed: Friday, September 17, 2021 12:20:40 Eastern Daylight Time

Date	Time	Event	Details	Comments
15-Sep-21	14:22:19	Method modified		
15-Sep-21	14:22:26	Process Quantify		
15-Sep-21	14:22:31	Dataset Saved	Saved to 'I:\Organics Instrument\HIGHRES GCMS Complete...	
16-Sep-21	14:43:02	Peak modified	Sample:10-210913B26, Compound:TetraF4, RT:10.730	EG210916MA
16-Sep-21	14:43:02	Peak modified	Sample:10-210913B26, Compound:TetraF4, RT:10.730	EG210916MA
16-Sep-21	14:56:30	Peak modified	Sample:10-210913B26, Compound:TetraF4, RT:10.730	S
16-Sep-21	14:56:30	Peak added	Sample:10-210913B26, Compound:TetraF4, RT:10.730	S
16-Sep-21	14:56:30	Peak modified	Sample:10-210913B26, Compound:TetraF4, RT:10.730	S
16-Sep-21	14:56:30	Peak added	Sample:10-210913B26, Compound:TetraF4, RT:10.730	S
16-Sep-21	14:58:01	Peak modified	Sample:10-210913B26, Compound:TetraF4, RT:10.730	S
16-Sep-21	14:58:01	Peak modified	Sample:10-210913B26, Compound:TetraF4, RT:10.606	S
16-Sep-21	14:58:01	Peak modified	Sample:10-210913B26, Compound:TetraF4, RT:10.730	S
16-Sep-21	14:58:01	Peak modified	Sample:10-210913B26, Compound:TetraF4, RT:10.606	S
16-Sep-21	14:58:01	Peak modified	Sample:10-210913B26, Compound:TetraF4, RT:10.730	S
16-Sep-21	14:58:32	Peak modified	Sample:10-210913B26, Compound:TetraF4, RT:10.742	S
16-Sep-21	14:58:32	Peak modified	Sample:10-210913B26, Compound:TetraF4, RT:10.730	S
16-Sep-21	14:58:32	Peak modified	Sample:10-210913B26, Compound:TetraF4, RT:10.742	S
16-Sep-21	14:58:32	Peak modified	Sample:10-210913B26, Compound:TetraF4, RT:10.730	S
16-Sep-21	14:59:02	Peak modified	Sample:10-210913B26, Compound:TetraF4, RT:10.742	EG210916MS
14-Sep-21	15:22:17	Process Extract		
14-Sep-21	15:22:18	Process Integrate		
14-Sep-21	15:22:19	Process Quantify		
14-Sep-21	15:22:20	Dataset Created		
14-Sep-21	15:29:48	Method modified		
14-Sep-21	15:29:55	Process Quantify		
14-Sep-21	15:30:55	Peak added	Sample:10-210913B24, Compound:13CNonaF8, RT:21.626	
14-Sep-21	15:30:55	Peak added	Sample:10-210913B24, Compound:13CNonaF8, RT:21.638	
14-Sep-21	15:32:09	Method modified		
14-Sep-21	15:32:15	Process Quantify		
14-Sep-21	15:32:36	Method modified		
14-Sep-21	15:32:42	Process Quantify		
14-Sep-21	15:35:44	Pre modification peak	Sample:10-210913B18, Compound:13CHeptaF6, RT:17.888	
14-Sep-21	15:35:44	Peak modified	Sample:10-210913B18, Compound:13CHeptaF6, RT:17.888	
14-Sep-21	15:35:44	Peak deleted	Sample:10-210913B18, Compound:13CHeptaF6, RT:17.970	
14-Sep-21	15:35:44	Pre modification peak	Sample:10-210913B18, Compound:13CHeptaF6, RT:18.262	
14-Sep-21	15:35:44	Peak modified	Sample:10-210913B18, Compound:13CHeptaF6, RT:18.262	
14-Sep-21	15:35:44	Peak added	Sample:10-210913B18, Compound:13CHeptaF6, RT:18.262	
14-Sep-21	15:36:21	Peak added	Sample:10-210913B26, Compound:13CHeptaF6, RT:18.017	
14-Sep-21	15:36:21	Peak added	Sample:10-210913B26, Compound:13CHeptaF6, RT:18.028	
14-Sep-21	15:36:52	Peak modified	Sample:10-210913B26, Compound:13CHeptaF6, RT:18.017	
14-Sep-21	15:36:52	Peak modified	Sample:10-210913B26, Compound:13CHeptaF6, RT:18.028	
14-Sep-21	15:37:11	Peak added	Sample:10-210913B26, Compound:13COctaF7, RT:19.654	EG210914MA
14-Sep-21	15:37:42	Method modified		
14-Sep-21	15:37:49	Process Quantify		
14-Sep-21	15:41:15	Peak added	Sample:10-210913B27, Compound:13CNonaF8, RT:21.614	EG210914MA
14-Sep-21	15:41:15	Peak added	Sample:10-210913B27, Compound:13CNonaF8, RT:21.367	EG210914MA
14-Sep-21	15:41:15	Peak added	Sample:10-210913B27, Compound:13CNonaF8, RT:21.614	EG210914MA
14-Sep-21	15:41:15	Peak added	Sample:10-210913B27, Compound:13CNonaF8, RT:21.343	EG210914MA
14-Sep-21	15:41:52	Peak modified	Sample:10-210913B27, Compound:13CNonaF8, RT:21.367	EG210914MA
14-Sep-21	15:41:52	Peak modified	Sample:10-210913B27, Compound:13CNonaF8, RT:21.614	EG210914MA
14-Sep-21	15:41:52	Peak modified	Sample:10-210913B27, Compound:13CNonaF8, RT:21.614	EG210914MA
14-Sep-21	15:42:26	Method modified		
14-Sep-21	15:42:33	Process Quantify		

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Dataset: I:\Organics Instrument\HIGHRES GCMS Completed Results Files\HR-10\2021\2109\10-210913B-Q1-PBDE.qld

Last Altered: Thursday, September 16, 2021 14:59:12 Eastern Daylight Time
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Date	Time	Event	Details	Comments
14-Sep-21	15:43:09	Pre modification peak	Sample:10-210913B27, Compound:13CTetraF4, RT:10.581	
14-Sep-21	15:43:09	Peak modified	Sample:10-210913B27, Compound:13CTetraF4, RT:10.581	EG210914MB
14-Sep-21	15:43:29	Pre modification peak	Sample:10-210913B27, Compound:13CHexaF5, RT:14.172	
14-Sep-21	15:43:29	Peak modified	Sample:10-210913B27, Compound:13CHexaF5, RT:14.172	EG210914MB
14-Sep-21	15:43:53	Pre modification peak	Sample:10-210913B27, Compound:13CHexaF6, RT:14.895	
14-Sep-21	15:43:53	Peak modified	Sample:10-210913B27, Compound:13CHexaF6, RT:14.895	EG210914MB
14-Sep-21	15:43:53	Pre modification peak	Sample:10-210913B27, Compound:13CHexaF6, RT:15.164	
14-Sep-21	15:43:53	Peak modified	Sample:10-210913B27, Compound:13CHexaF6, RT:15.164	EG210914MB
14-Sep-21	15:44:25	Pre modification peak	Sample:10-210913B27, Compound:13CHeptaF6, RT:17.888	
14-Sep-21	15:44:25	Peak modified	Sample:10-210913B27, Compound:13CHeptaF6, RT:17.888	EG210914MB
14-Sep-21	15:44:45	Pre modification peak	Sample:10-210913B27, Compound:13CHexaF6, RT:15.842	
14-Sep-21	15:44:45	Peak modified	Sample:10-210913B27, Compound:13CHexaF6, RT:15.842	EG210914MB
14-Sep-21	15:46:01	Pre modification peak	Sample:10-210913B28, Compound:13CDBDPEF10, RT:24.669	
14-Sep-21	15:46:01	Peak modified	Sample:10-210913B28, Compound:13CDBDPEF10, RT:24.669	EG210914MB
14-Sep-21	15:46:53	Peak added	Sample:10-210913B32, Compound:13CDecaF9, RT:23.276	EG210914MA
14-Sep-21	15:46:53	Peak added	Sample:10-210913B32, Compound:13CDecaF9, RT:23.267	EG210914MA
14-Sep-21	15:54:07	Dataset Saved	Saved to 'I:\Organics Instrument\HIGHRES GCMS Complete...	
14-Sep-21	15:54:47	Pre modification peak	Sample:10-210913B32, Compound:13CPentaF5, RT:12.693	
14-Sep-21	15:54:47	Peak modified	Sample:10-210913B32, Compound:13CPentaF5, RT:12.693	EG210914MB
14-Sep-21	15:55:17	Pre modification peak	Sample:10-210913B32, Compound:13CPentaF5, RT:13.750	
14-Sep-21	15:55:17	Peak modified	Sample:10-210913B32, Compound:13CPentaF5, RT:13.750	EG210914MB
14-Sep-21	15:55:17	Pre modification peak	Sample:10-210913B32, Compound:13CPentaF5, RT:13.762	
14-Sep-21	15:55:17	Peak modified	Sample:10-210913B32, Compound:13CPentaF5, RT:13.762	EG210914MB
14-Sep-21	15:55:32	Pre modification peak	Sample:10-210913B32, Compound:13CHexaF6, RT:14.872	
14-Sep-21	15:55:32	Peak modified	Sample:10-210913B32, Compound:13CHexaF6, RT:14.872	EG210914MB
14-Sep-21	15:57:20	Method modified		
14-Sep-21	15:57:27	Process Quantify		
14-Sep-21	15:58:47	Method modified		
14-Sep-21	15:58:53	Process Quantify		
14-Sep-21	15:59:47	Method modified		
14-Sep-21	15:59:54	Process Quantify		
14-Sep-21	16:01:18	Method modified		
14-Sep-21	16:01:26	Process Quantify		
14-Sep-21	16:03:11	Peak deleted	Sample:10-210913B18, Compound:13CDiF2, RT:7.026	
14-Sep-21	16:03:11	Peak deleted	Sample:10-210913B18, Compound:13CDiF2, RT:7.026	
14-Sep-21	16:04:26	Peak added	Sample:10-210913B25, Compound:DiF2, RT:7.182	EG210914MA
14-Sep-21	16:04:26	Peak added	Sample:10-210913B25, Compound:DiF2, RT:7.182	EG210914MA
14-Sep-21	16:04:26	Peak added	Sample:10-210913B25, Compound:DiF2, RT:6.905	EG210914MA
14-Sep-21	16:04:58	Peak added	Sample:10-210913B25, Compound:DiF2, RT:7.035	EG210914MA
14-Sep-21	16:04:58	Peak added	Sample:10-210913B25, Compound:DiF2, RT:7.035	EG210914MA
14-Sep-21	16:06:05	Pre modification peak	Sample:10-210913B26, Compound:DiF2, RT:7.026	
14-Sep-21	16:06:05	Peak modified	Sample:10-210913B26, Compound:DiF2, RT:7.026	EG210914MB
14-Sep-21	16:06:05	Pre modification peak	Sample:10-210913B26, Compound:DiF2, RT:6.905	
14-Sep-21	16:06:05	Peak modified	Sample:10-210913B26, Compound:DiF2, RT:6.905	EG210914MB
14-Sep-21	16:06:05	Peak added	Sample:10-210913B26, Compound:DiF2, RT:7.035	EG210914MB
14-Sep-21	16:06:19	Peak added	Sample:10-210913B26, Compound:DiF2, RT:6.723	EG210914MA
14-Sep-21	16:06:35	Peak added	Sample:10-210913B27, Compound:DiF2, RT:7.173	EG210914MA
14-Sep-21	16:06:35	Peak added	Sample:10-210913B27, Compound:DiF2, RT:7.173	EG210914MA
14-Sep-21	16:07:10	Peak added	Sample:10-210913B28, Compound:DiF2, RT:7.026	EG210914MA
14-Sep-21	16:07:10	Peak added	Sample:10-210913B28, Compound:DiF2, RT:6.896	EG210914MA
14-Sep-21	16:07:10	Peak added	Sample:10-210913B28, Compound:DiF2, RT:7.026	EG210914MA
14-Sep-21	16:07:10	Peak added	Sample:10-210913B28, Compound:DiF2, RT:6.905	EG210914MA
14-Sep-21	16:07:10	Peak added	Sample:10-210913B28, Compound:DiF2, RT:6.714	EG210914MA

Quantify Audit Report MassLynx MassLynx V4.1 SCN 901

Dataset: I:\Organics Instrument\HIGHRES GCMS Completed Results Files\HR-10\2021\2109\10-210913B-Q1-PBDE.qld

Last Altered: Thursday, September 16, 2021 14:59:12 Eastern Daylight Time
Printed: Friday, September 17, 2021 12:20:40 Eastern Daylight Time

Date	Time	Event	Details	Comments
14-Sep-21	16:07:44	Method modified		
14-Sep-21	16:07:51	Process Quantify		
14-Sep-21	16:09:00	Pre modification peak	Sample:10-210913B28, Compound:TriF3, RT:8.472	
14-Sep-21	16:09:00	Peak modified	Sample:10-210913B28, Compound:TriF3, RT:8.472	EG210914MB
14-Sep-21	16:09:00	Pre modification peak	Sample:10-210913B28, Compound:TriF3, RT:8.705	
14-Sep-21	16:09:00	Peak modified	Sample:10-210913B28, Compound:TriF3, RT:8.705	EG210914MB
14-Sep-21	16:09:00	Pre modification peak	Sample:10-210913B28, Compound:TriF3, RT:8.472	
14-Sep-21	16:09:00	Peak modified	Sample:10-210913B28, Compound:TriF3, RT:8.472	EG210914MB
14-Sep-21	16:09:31	Peak added	Sample:10-210913B28, Compound:TriF3, RT:9.038	EG210914MA
14-Sep-21	16:09:31	Peak added	Sample:10-210913B28, Compound:TriF3, RT:9.038	EG210914MA
14-Sep-21	16:10:01	Pre modification peak	Sample:10-210913B28, Compound:TriF3, RT:8.927	
14-Sep-21	16:10:01	Peak modified	Sample:10-210913B28, Compound:TriF3, RT:8.927	EG210914MB
14-Sep-21	16:10:01	Pre modification peak	Sample:10-210913B28, Compound:TriF3, RT:8.938	
14-Sep-21	16:10:01	Peak modified	Sample:10-210913B28, Compound:TriF3, RT:8.938	EG210914MB
14-Sep-21	16:10:22	Peak added	Sample:10-210913B27, Compound:TriF3, RT:8.483	EG210914MA
14-Sep-21	16:10:22	Peak added	Sample:10-210913B27, Compound:TriF3, RT:8.505	EG210914MA
14-Sep-21	16:10:45	Peak modified	Sample:10-210913B27, Compound:TriF3, RT:8.483	EG210914MA
14-Sep-21	16:10:45	Peak modified	Sample:10-210913B27, Compound:TriF3, RT:8.505	EG210914MA
14-Sep-21	16:11:20	Pre modification peak	Sample:10-210913B26, Compound:TriF3, RT:8.705	
14-Sep-21	16:11:20	Peak modified	Sample:10-210913B26, Compound:TriF3, RT:8.705	EG210914MB
14-Sep-21	16:11:20	Pre modification peak	Sample:10-210913B26, Compound:TriF3, RT:8.705	
14-Sep-21	16:11:20	Peak modified	Sample:10-210913B26, Compound:TriF3, RT:8.705	EG210914MB
14-Sep-21	16:12:41	Pre modification peak	Sample:10-210913B26, Compound:TriF3, RT:8.250	
14-Sep-21	16:12:41	Peak modified	Sample:10-210913B26, Compound:TriF3, RT:8.250	EG210914MA
14-Sep-21	16:12:41	Peak added	Sample:10-210913B26, Compound:TriF3, RT:8.316	EG210914MA
14-Sep-21	16:12:41	Peak added	Sample:10-210913B26, Compound:TriF3, RT:8.316	EG210914MA
14-Sep-21	16:12:41	Peak added	Sample:10-210913B26, Compound:TriF3, RT:8.250	EG210914MA
14-Sep-21	16:12:58	Peak added	Sample:10-210913B25, Compound:TriF3, RT:8.538	EG210914MA
14-Sep-21	16:12:58	Peak added	Sample:10-210913B25, Compound:TriF3, RT:8.538	EG210914MA
14-Sep-21	16:13:47	Peak added	Sample:10-210913B17, Compound:TriF3, RT:7.972	EG210914MA
14-Sep-21	16:13:47	Peak added	Sample:10-210913B17, Compound:TriF3, RT:7.716	EG210914MA
14-Sep-21	16:14:01	Peak added	Sample:10-210913B17, Compound:TriF3, RT:9.005	EG210914MA
14-Sep-21	16:15:18	Peak deleted	Sample:10-210913B25, Compound:13CHBBF4, RT:10.655	EG210914MB
14-Sep-21	16:15:18	Pre modification peak	Sample:10-210913B25, Compound:13CHBBF4, RT:10.407	
14-Sep-21	16:15:18	Peak modified	Sample:10-210913B25, Compound:13CHBBF4, RT:10.407	EG210914MB
14-Sep-21	16:15:18	Pre modification peak	Sample:10-210913B25, Compound:13CHBBF4, RT:10.680	
14-Sep-21	16:15:18	Peak modified	Sample:10-210913B25, Compound:13CHBBF4, RT:10.680	EG210914MB
14-Sep-21	16:15:18	Pre modification peak	Sample:10-210913B25, Compound:13CHBBF4, RT:10.394	
14-Sep-21	16:15:18	Peak modified	Sample:10-210913B25, Compound:13CHBBF4, RT:10.394	EG210914MB
14-Sep-21	16:15:44	Method modified		
14-Sep-21	16:15:51	Process Quantify		
14-Sep-21	16:16:39	Peak added	Sample:10-210913B28, Compound:HBBF4, RT:10.146	EG210914MA
14-Sep-21	16:17:16	Peak added	Sample:10-210913B17, Compound:HBBF4, RT:10.009	EG210914MA
14-Sep-21	16:17:25	Peak added	Sample:10-210913B16, Compound:HBBF4, RT:10.009	EG210914MA
14-Sep-21	16:17:39	Peak modified	Sample:10-210913B16, Compound:HBBF4, RT:10.009	EG210914MA
14-Sep-21	16:17:59	Peak added	Sample:10-210913B15, Compound:HBBF4, RT:10.009	EG210914MA
14-Sep-21	16:17:59	Peak added	Sample:10-210913B15, Compound:HBBF4, RT:10.021	EG210914MA
14-Sep-21	16:18:10	Peak modified	Sample:10-210913B15, Compound:HBBF4, RT:10.021	EG210914MA
14-Sep-21	16:18:27	Peak added	Sample:10-210913B14, Compound:HBBF4, RT:10.009	EG210914MA
14-Sep-21	16:18:27	Peak added	Sample:10-210913B14, Compound:HBBF4, RT:10.021	EG210914MA
14-Sep-21	16:18:31	Dataset Saved	Saved to 'I:\Organics Instrument\HIGHRES GCMS Complete...	
14-Sep-21	16:19:10	Pre modification peak	Sample:10-210913B15, Compound:TetraF4, RT:10.568	
14-Sep-21	16:19:10	Peak modified	Sample:10-210913B15, Compound:TetraF4, RT:10.568	EG210914MA

Date	Time	Event	Details	Comments
14-Sep-21	16:19:10	Peak added	Sample:10-210913B15, Compound:TetraF4, RT:10.568	EG210914MA
14-Sep-21	16:19:28	Pre modification peak	Sample:10-210913B16, Compound:TetraF4, RT:10.568	
14-Sep-21	16:19:28	Peak modified	Sample:10-210913B16, Compound:TetraF4, RT:10.568	EG210914MB
14-Sep-21	16:19:28	Pre modification peak	Sample:10-210913B16, Compound:TetraF4, RT:10.568	
14-Sep-21	16:19:28	Peak modified	Sample:10-210913B16, Compound:TetraF4, RT:10.568	EG210914MB
14-Sep-21	16:21:26	Pre modification peak	Sample:10-210913B17, Compound:TetraF4, RT:10.556	
14-Sep-21	16:21:26	Peak modified	Sample:10-210913B17, Compound:TetraF4, RT:10.556	EG210914MB
14-Sep-21	16:21:26	Pre modification peak	Sample:10-210913B17, Compound:TetraF4, RT:10.680	
14-Sep-21	16:21:26	Peak modified	Sample:10-210913B17, Compound:TetraF4, RT:10.680	EG210914MB
14-Sep-21	16:21:26	Pre modification peak	Sample:10-210913B17, Compound:TetraF4, RT:10.556	
14-Sep-21	16:21:26	Peak modified	Sample:10-210913B17, Compound:TetraF4, RT:10.556	EG210914MB
14-Sep-21	16:21:26	Pre modification peak	Sample:10-210913B17, Compound:TetraF4, RT:10.680	
14-Sep-21	16:21:26	Peak modified	Sample:10-210913B17, Compound:TetraF4, RT:10.680	EG210914MB
14-Sep-21	16:22:06	Peak modified	Sample:10-210913B17, Compound:TetraF4, RT:10.693	
14-Sep-21	16:22:06	Peak modified	Sample:10-210913B17, Compound:TetraF4, RT:10.693	
14-Sep-21	16:22:37	Pre modification peak	Sample:10-210913B17, Compound:TetraF4, RT:10.059	
14-Sep-21	16:22:37	Peak modified	Sample:10-210913B17, Compound:TetraF4, RT:10.059	EG210914MB
14-Sep-21	16:22:37	Pre modification peak	Sample:10-210913B17, Compound:TetraF4, RT:10.121	
14-Sep-21	16:22:37	Peak modified	Sample:10-210913B17, Compound:TetraF4, RT:10.121	EG210914MB
14-Sep-21	16:23:24	Pre modification peak	Sample:10-210913B18, Compound:13CTetraF4, RT:10.891	
14-Sep-21	16:23:24	Peak modified	Sample:10-210913B18, Compound:13CTetraF4, RT:10.891	
14-Sep-21	16:23:24	Pre modification peak	Sample:10-210913B18, Compound:13CTetraF4, RT:10.953	
14-Sep-21	16:23:24	Peak modified	Sample:10-210913B18, Compound:13CTetraF4, RT:10.953	
14-Sep-21	16:23:24	Pre modification peak	Sample:10-210913B18, Compound:13CTetraF4, RT:10.891	
14-Sep-21	16:23:24	Peak modified	Sample:10-210913B18, Compound:13CTetraF4, RT:10.891	
14-Sep-21	16:23:24	Pre modification peak	Sample:10-210913B18, Compound:13CTetraF4, RT:10.953	
14-Sep-21	16:23:24	Peak modified	Sample:10-210913B18, Compound:13CTetraF4, RT:10.953	
14-Sep-21	16:23:41	Peak deleted	Sample:10-210913B23, Compound:13CTetraF4, RT:10.655	
14-Sep-21	16:24:29	Pre modification peak	Sample:10-210913B24, Compound:TetraF4, RT:10.233	
14-Sep-21	16:24:29	Peak modified	Sample:10-210913B24, Compound:TetraF4, RT:10.233	EG210914MB
14-Sep-21	16:24:29	Pre modification peak	Sample:10-210913B24, Compound:TetraF4, RT:10.332	
14-Sep-21	16:24:29	Peak modified	Sample:10-210913B24, Compound:TetraF4, RT:10.332	EG210914MB
14-Sep-21	16:24:29	Peak added	Sample:10-210913B24, Compound:TetraF4, RT:10.394	EG210914MB
14-Sep-21	16:24:58	Pre modification peak	Sample:10-210913B24, Compound:TetraF4, RT:10.233	
14-Sep-21	16:24:58	Peak modified	Sample:10-210913B24, Compound:TetraF4, RT:10.233	EG210914MS
14-Sep-21	16:24:58	Peak modified	Sample:10-210913B24, Compound:TetraF4, RT:10.332	EG210914MS
14-Sep-21	16:24:58	Peak modified	Sample:10-210913B24, Compound:TetraF4, RT:10.394	EG210914MS
14-Sep-21	16:25:34	Pre modification peak	Sample:10-210913B25, Compound:TetraF4, RT:10.295	
14-Sep-21	16:25:34	Peak modified	Sample:10-210913B25, Compound:TetraF4, RT:10.295	EG210914MB
14-Sep-21	16:25:34	Pre modification peak	Sample:10-210913B25, Compound:TetraF4, RT:10.295	
14-Sep-21	16:25:34	Peak modified	Sample:10-210913B25, Compound:TetraF4, RT:10.295	EG210914MB
14-Sep-21	16:25:50	Peak modified	Sample:10-210913B25, Compound:TetraF4, RT:10.295	EG210914MB
14-Sep-21	16:27:45	Pre modification peak	Sample:10-210913B26, Compound:TetraF4, RT:10.606	
14-Sep-21	16:27:45	Peak modified	Sample:10-210913B26, Compound:TetraF4, RT:10.606	EG210914MB
14-Sep-21	16:27:45	Pre modification peak	Sample:10-210913B26, Compound:TetraF4, RT:10.606	
14-Sep-21	16:27:45	Peak modified	Sample:10-210913B26, Compound:TetraF4, RT:10.606	EG210914MB
14-Sep-21	16:29:12	Peak deleted	Sample:10-210913B26, Compound:TetraF4, RT:10.730	EG210914MB
14-Sep-21	16:29:12	Peak deleted	Sample:10-210913B26, Compound:TetraF4, RT:10.730	EG210914MB
14-Sep-21	16:29:12	Pre modification peak	Sample:10-210913B26, Compound:TetraF4, RT:10.891	
14-Sep-21	16:29:12	Peak modified	Sample:10-210913B26, Compound:TetraF4, RT:10.891	EG210914MB
14-Sep-21	16:29:51	Peak added	Sample:10-210913B27, Compound:TetraF4, RT:10.245	EG210914MA
14-Sep-21	16:29:51	Peak added	Sample:10-210913B27, Compound:TetraF4, RT:10.245	EG210914MA
14-Sep-21	16:30:04	Pre modification peak	Sample:10-210913B27, Compound:TetraF4, RT:10.581	

Quantify Audit Report MassLynx MassLynx V4.1 SCN 901

Dataset: I:\Organics Instrument\HIGHRES GCMS Completed Results Files\HR-10\2021\2109\10-210913B-Q1-PBDE.qld

Last Altered: Thursday, September 16, 2021 14:59:12 Eastern Daylight Time
Printed: Friday, September 17, 2021 12:20:40 Eastern Daylight Time

Date	Time	Event	Details	Comments
14-Sep-21	16:30:04	Peak modified	Sample:10-210913B27, Compound:TetraF4, RT:10.581	EG210914MB
14-Sep-21	16:30:47	Pre modification peak	Sample:10-210913B28, Compound:TetraF4, RT:10.245	
14-Sep-21	16:30:47	Peak modified	Sample:10-210913B28, Compound:TetraF4, RT:10.245	EG210914MB
14-Sep-21	16:30:47	Pre modification peak	Sample:10-210913B28, Compound:TetraF4, RT:10.581	
14-Sep-21	16:30:47	Peak modified	Sample:10-210913B28, Compound:TetraF4, RT:10.581	EG210914MB
14-Sep-21	16:30:47	Pre modification peak	Sample:10-210913B28, Compound:TetraF4, RT:10.245	
14-Sep-21	16:30:47	Peak modified	Sample:10-210913B28, Compound:TetraF4, RT:10.245	EG210914MB
14-Sep-21	16:30:47	Pre modification peak	Sample:10-210913B28, Compound:TetraF4, RT:10.581	
14-Sep-21	16:30:47	Peak modified	Sample:10-210913B28, Compound:TetraF4, RT:10.581	EG210914MB
14-Sep-21	16:30:47	Pre modification peak	Sample:10-210913B28, Compound:TetraF4, RT:10.866	
14-Sep-21	16:30:47	Peak modified	Sample:10-210913B28, Compound:TetraF4, RT:10.866	EG210914MB
14-Sep-21	16:31:38	Peak modified	Sample:10-210913B28, Compound:TetraF4, RT:10.245	EG210914MA
14-Sep-21	16:31:38	Peak added	Sample:10-210913B28, Compound:TetraF4, RT:10.307	EG210914MA
14-Sep-21	16:31:38	Peak added	Sample:10-210913B28, Compound:TetraF4, RT:10.158	EG210914MA
14-Sep-21	16:31:38	Peak added	Sample:10-210913B28, Compound:TetraF4, RT:10.320	EG210914MA
14-Sep-21	16:31:38	Peak added	Sample:10-210913B28, Compound:TetraF4, RT:10.158	EG210914MA
14-Sep-21	16:32:18	Peak added	Sample:10-210913B32, Compound:TetraF4, RT:10.556	EG210914MA
14-Sep-21	16:32:18	Peak added	Sample:10-210913B32, Compound:TetraF4, RT:10.556	EG210914MA
14-Sep-21	16:32:34	Peak modified	Sample:10-210913B32, Compound:TetraF4, RT:10.556	EG210914MA
14-Sep-21	16:32:50	Peak modified	Sample:10-210913B32, Compound:TetraF4, RT:10.556	EG210914MA
14-Sep-21	16:32:59	Dataset Saved	Saved to 'I:\Organics Instrument\HIGHRES GCMS Complete...	
14-Sep-21	16:33:57	Peak added	Sample:10-210913B14, Compound:PentaF5, RT:12.196	EG210914MA
14-Sep-21	16:33:57	Peak added	Sample:10-210913B14, Compound:PentaF5, RT:12.209	EG210914MA
14-Sep-21	16:34:16	Peak added	Sample:10-210913B16, Compound:PentaF5, RT:12.184	EG210914MA
14-Sep-21	16:34:16	Peak added	Sample:10-210913B16, Compound:PentaF5, RT:12.706	EG210914MA
14-Sep-21	16:34:16	Peak added	Sample:10-210913B16, Compound:PentaF5, RT:12.196	EG210914MA
14-Sep-21	16:34:35	Pre modification peak	Sample:10-210913B16, Compound:PentaF5, RT:12.706	
14-Sep-21	16:34:35	Peak modified	Sample:10-210913B16, Compound:PentaF5, RT:12.706	EG210914MA
14-Sep-21	16:34:35	Peak modified	Sample:10-210913B16, Compound:PentaF5, RT:12.196	EG210914MA
14-Sep-21	16:35:12	Pre modification peak	Sample:10-210913B17, Compound:PentaF5, RT:12.693	
14-Sep-21	16:35:12	Peak modified	Sample:10-210913B17, Compound:PentaF5, RT:12.693	EG210914MB
14-Sep-21	16:35:12	Pre modification peak	Sample:10-210913B17, Compound:PentaF5, RT:12.693	
14-Sep-21	16:35:12	Peak modified	Sample:10-210913B17, Compound:PentaF5, RT:12.693	EG210914MB
14-Sep-21	16:35:51	Pre modification peak	Sample:10-210913B17, Compound:PentaF5, RT:13.116	
14-Sep-21	16:35:51	Peak modified	Sample:10-210913B17, Compound:PentaF5, RT:13.116	EG210914MB
14-Sep-21	16:35:51	Pre modification peak	Sample:10-210913B17, Compound:PentaF5, RT:13.104	
14-Sep-21	16:35:51	Peak modified	Sample:10-210913B17, Compound:PentaF5, RT:13.104	EG210914MB
14-Sep-21	16:36:30	Peak modified	Sample:10-210913B17, Compound:PentaF5, RT:13.116	EG210914MB
14-Sep-21	16:36:30	Pre modification peak	Sample:10-210913B17, Compound:PentaF5, RT:13.588	
14-Sep-21	16:36:30	Peak modified	Sample:10-210913B17, Compound:PentaF5, RT:13.588	EG210914MB
14-Sep-21	16:36:30	Peak modified	Sample:10-210913B17, Compound:PentaF5, RT:13.104	EG210914MB
14-Sep-21	16:36:30	Pre modification peak	Sample:10-210913B17, Compound:PentaF5, RT:13.601	
14-Sep-21	16:36:30	Peak modified	Sample:10-210913B17, Compound:PentaF5, RT:13.601	EG210914MB
14-Sep-21	16:37:35	Pre modification peak	Sample:10-210913B18, Compound:PentaF5, RT:12.842	
14-Sep-21	16:37:35	Peak modified	Sample:10-210913B18, Compound:PentaF5, RT:12.842	EG210914MB
14-Sep-21	16:37:35	Pre modification peak	Sample:10-210913B18, Compound:PentaF5, RT:12.842	
14-Sep-21	16:37:35	Peak modified	Sample:10-210913B18, Compound:PentaF5, RT:12.842	EG210914MB
14-Sep-21	16:37:45	Dataset Saved	Saved to 'I:\Organics Instrument\HIGHRES GCMS Complete...	
14-Sep-21	16:38:53	Peak added	Sample:10-210913B24, Compound:PentaF5, RT:13.762	EG210914MA
14-Sep-21	16:38:53	Peak added	Sample:10-210913B24, Compound:PentaF5, RT:13.774	EG210914MA
14-Sep-21	16:39:14	Peak added	Sample:10-210913B25, Compound:PentaF5, RT:12.432	EG210914MA
14-Sep-21	16:39:14	Peak added	Sample:10-210913B25, Compound:PentaF5, RT:12.432	EG210914MA
14-Sep-21	16:40:40	Pre modification peak	Sample:10-210913B26, Compound:PentaF5, RT:12.755	

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Last Altered: Thursday, September 16, 2021 14:59:12 Eastern Daylight Time
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Date	Time	Event	Details	Comments
14-Sep-21	16:40:40	Peak modified	Sample:10-210913B26, Compound:PentaF5, RT:12.755	EG210914MB
14-Sep-21	16:40:40	Pre modification peak	Sample:10-210913B26, Compound:PentaF5, RT:13.165	
14-Sep-21	16:40:40	Peak modified	Sample:10-210913B26, Compound:PentaF5, RT:13.165	EG210914MB
14-Sep-21	16:40:40	Pre modification peak	Sample:10-210913B26, Compound:PentaF5, RT:13.638	
14-Sep-21	16:40:40	Peak modified	Sample:10-210913B26, Compound:PentaF5, RT:13.638	EG210914MB
14-Sep-21	16:40:40	Pre modification peak	Sample:10-210913B26, Compound:PentaF5, RT:13.824	
14-Sep-21	16:40:40	Peak modified	Sample:10-210913B26, Compound:PentaF5, RT:13.824	EG210914MB
14-Sep-21	16:40:40	Pre modification peak	Sample:10-210913B26, Compound:PentaF5, RT:12.755	
14-Sep-21	16:40:40	Peak modified	Sample:10-210913B26, Compound:PentaF5, RT:12.755	EG210914MB
14-Sep-21	16:40:40	Pre modification peak	Sample:10-210913B26, Compound:PentaF5, RT:13.153	
14-Sep-21	16:40:40	Peak modified	Sample:10-210913B26, Compound:PentaF5, RT:13.153	EG210914MB
14-Sep-21	16:40:40	Pre modification peak	Sample:10-210913B26, Compound:PentaF5, RT:13.812	
14-Sep-21	16:40:40	Peak modified	Sample:10-210913B26, Compound:PentaF5, RT:13.812	EG210914MB
14-Sep-21	16:41:27	Peak added	Sample:10-210913B27, Compound:PentaF5, RT:12.259	EG210914MA
14-Sep-21	16:41:27	Peak added	Sample:10-210913B27, Compound:PentaF5, RT:12.755	EG210914MA
14-Sep-21	16:41:27	Peak added	Sample:10-210913B27, Compound:PentaF5, RT:12.271	EG210914MA
14-Sep-21	16:41:27	Peak added	Sample:10-210913B27, Compound:PentaF5, RT:12.755	EG210914MA
14-Sep-21	16:41:54	Pre modification peak	Sample:10-210913B28, Compound:PentaF5, RT:12.755	
14-Sep-21	16:41:54	Peak modified	Sample:10-210913B28, Compound:PentaF5, RT:12.755	EG210914MB
14-Sep-21	16:41:54	Pre modification peak	Sample:10-210913B28, Compound:PentaF5, RT:13.638	
14-Sep-21	16:41:54	Peak modified	Sample:10-210913B28, Compound:PentaF5, RT:13.638	EG210914MB
14-Sep-21	16:41:54	Peak added	Sample:10-210913B28, Compound:PentaF5, RT:13.638	EG210914MB
14-Sep-21	16:42:20	Peak modified	Sample:10-210913B28, Compound:PentaF5, RT:13.638	EG210914MA
14-Sep-21	16:42:41	Peak added	Sample:10-210913B31, Compound:PentaF5, RT:12.196	EG210914MB
14-Sep-21	16:42:41	Peak added	Sample:10-210913B31, Compound:PentaF5, RT:12.196	EG210914MB
14-Sep-21	16:42:47	Dataset Saved	Saved to 'I:\Organics Instrument\HIGHRES GCMS Complete...	
14-Sep-21	16:43:00	Pre modification peak	Sample:10-210913B31, Compound:PentaF5, RT:12.706	
14-Sep-21	16:43:00	Peak modified	Sample:10-210913B31, Compound:PentaF5, RT:12.706	EG210914MB
14-Sep-21	16:43:07	Dataset Saved	Saved to 'I:\Organics Instrument\HIGHRES GCMS Complete...	
14-Sep-21	16:43:22	Peak added	Sample:10-210913B32, Compound:PentaF5, RT:12.706	EG210914MA
14-Sep-21	16:43:22	Peak added	Sample:10-210913B32, Compound:PentaF5, RT:12.706	EG210914MA
14-Sep-21	16:44:24	Pre modification peak	Sample:10-210913B17, Compound:HexaF5, RT:13.762	
14-Sep-21	16:44:24	Peak modified	Sample:10-210913B17, Compound:HexaF5, RT:13.762	EG210914MB
14-Sep-21	16:44:24	Pre modification peak	Sample:10-210913B17, Compound:HexaF5, RT:14.135	
14-Sep-21	16:44:24	Peak modified	Sample:10-210913B17, Compound:HexaF5, RT:14.135	EG210914MB
14-Sep-21	16:44:24	Pre modification peak	Sample:10-210913B17, Compound:HexaF5, RT:14.135	
14-Sep-21	16:44:24	Peak modified	Sample:10-210913B17, Compound:HexaF5, RT:14.135	EG210914MB
14-Sep-21	16:45:14	Pre modification peak	Sample:10-210913B24, Compound:HexaF5, RT:14.309	
14-Sep-21	16:45:14	Peak modified	Sample:10-210913B24, Compound:HexaF5, RT:14.309	EG210914MB
14-Sep-21	16:45:33	Peak added	Sample:10-210913B25, Compound:HexaF5, RT:14.284	EG210914MA
14-Sep-21	16:45:33	Peak added	Sample:10-210913B25, Compound:HexaF5, RT:14.296	EG210914MA
14-Sep-21	16:46:58	Pre modification peak	Sample:10-210913B17, Compound:HexaF6, RT:14.872	
14-Sep-21	16:46:58	Peak modified	Sample:10-210913B17, Compound:HexaF6, RT:14.872	EG210914MB
14-Sep-21	16:46:58	Pre modification peak	Sample:10-210913B17, Compound:HexaF6, RT:15.819	
14-Sep-21	16:46:58	Peak modified	Sample:10-210913B17, Compound:HexaF6, RT:15.819	EG210914MB
14-Sep-21	16:46:58	Pre modification peak	Sample:10-210913B17, Compound:HexaF6, RT:15.830	
14-Sep-21	16:46:58	Peak modified	Sample:10-210913B17, Compound:HexaF6, RT:15.830	EG210914MB
14-Sep-21	16:47:20	Pre modification peak	Sample:10-210913B17, Compound:HexaF6, RT:15.328	
14-Sep-21	16:47:20	Peak modified	Sample:10-210913B17, Compound:HexaF6, RT:15.328	EG210914MB
14-Sep-21	16:48:27	Pre modification peak	Sample:10-210913B26, Compound:HexaF6, RT:14.953	
14-Sep-21	16:48:27	Peak modified	Sample:10-210913B26, Compound:HexaF6, RT:14.953	EG210914MB
14-Sep-21	16:48:27	Pre modification peak	Sample:10-210913B26, Compound:HexaF6, RT:14.953	
14-Sep-21	16:48:27	Peak modified	Sample:10-210913B26, Compound:HexaF6, RT:14.953	EG210914MB

Date	Time	Event	Details	Comments
14-Sep-21	16:49:21	Pre modification peak	Sample:10-210913B17, Compound:HeptaF6, RT:17.011	
14-Sep-21	16:49:21	Peak modified	Sample:10-210913B17, Compound:HeptaF6, RT:17.011	EG210914MB
14-Sep-21	16:50:54	Pre modification peak	Sample:10-210913B17, Compound:OctaF7, RT:19.894	
14-Sep-21	16:50:54	Peak modified	Sample:10-210913B17, Compound:OctaF7, RT:19.894	EG210914MB
14-Sep-21	16:51:28	Pre modification peak	Sample:10-210913B17, Compound:OctaF7, RT:19.755	
14-Sep-21	16:51:28	Peak modified	Sample:10-210913B17, Compound:OctaF7, RT:19.755	EG210914MB
14-Sep-21	16:51:28	Pre modification peak	Sample:10-210913B17, Compound:OctaF7, RT:19.755	
14-Sep-21	16:51:28	Peak modified	Sample:10-210913B17, Compound:OctaF7, RT:19.755	EG210914MB
14-Sep-21	16:52:09	Peak added	Sample:10-210913B26, Compound:OctaF7, RT:20.121	EG210914MA
14-Sep-21	16:52:09	Peak added	Sample:10-210913B26, Compound:OctaF7, RT:20.108	EG210914MA
14-Sep-21	16:52:18	Peak modified	Sample:10-210913B26, Compound:OctaF7, RT:20.108	EG210914MA
14-Sep-21	16:53:15	Peak added	Sample:10-210913B26, Compound:OctaF7, RT:19.944	EG210914MA
14-Sep-21	16:53:15	Peak modified	Sample:10-210913B26, Compound:OctaF7, RT:20.108	EG210914MA
14-Sep-21	16:53:15	Peak added	Sample:10-210913B26, Compound:OctaF7, RT:19.932	EG210914MA
14-Sep-21	16:53:42	Peak added	Sample:10-210913B28, Compound:OctaF7, RT:19.515	EG210914MA
14-Sep-21	16:53:42	Peak added	Sample:10-210913B28, Compound:OctaF7, RT:19.503	EG210914MA
14-Sep-21	16:54:51	Pre modification peak	Sample:10-210913B09, Compound:NonaF8, RT:21.225	
14-Sep-21	16:54:51	Peak modified	Sample:10-210913B09, Compound:NonaF8, RT:21.225	EG210914MB
14-Sep-21	16:54:51	Pre modification peak	Sample:10-210913B09, Compound:NonaF8, RT:21.343	
14-Sep-21	16:54:51	Peak modified	Sample:10-210913B09, Compound:NonaF8, RT:21.343	EG210914MB
14-Sep-21	16:54:51	Pre modification peak	Sample:10-210913B09, Compound:NonaF8, RT:21.343	
14-Sep-21	16:54:51	Peak modified	Sample:10-210913B09, Compound:NonaF8, RT:21.343	EG210914MB
14-Sep-21	16:55:21	Peak added	Sample:10-210913B14, Compound:NonaF8, RT:21.355	EG210914MA
14-Sep-21	16:55:21	Peak added	Sample:10-210913B14, Compound:NonaF8, RT:21.626	EG210914MA
14-Sep-21	16:55:21	Peak added	Sample:10-210913B14, Compound:NonaF8, RT:21.343	EG210914MA
14-Sep-21	16:55:21	Peak added	Sample:10-210913B14, Compound:NonaF8, RT:21.614	EG210914MA
14-Sep-21	16:55:43	Peak modified	Sample:10-210913B14, Compound:NonaF8, RT:21.355	EG210914MA
14-Sep-21	16:56:04	Peak added	Sample:10-210913B14, Compound:NonaF8, RT:21.237	EG210914MA
14-Sep-21	16:56:04	Peak added	Sample:10-210913B14, Compound:NonaF8, RT:21.237	EG210914MA
14-Sep-21	16:56:16	Peak deleted	Sample:10-210913B14, Compound:NonaF8, RT:21.237	
14-Sep-21	16:56:16	Peak deleted	Sample:10-210913B14, Compound:NonaF8, RT:21.237	
14-Sep-21	16:57:05	Peak added	Sample:10-210913B15, Compound:NonaF8, RT:21.237	EG210914MA
14-Sep-21	16:57:05	Peak added	Sample:10-210913B15, Compound:NonaF8, RT:21.249	EG210914MA
14-Sep-21	16:57:22	Peak added	Sample:10-210913B16, Compound:NonaF8, RT:21.614	EG210914MA
14-Sep-21	16:57:22	Peak added	Sample:10-210913B16, Compound:NonaF8, RT:21.614	EG210914MA
14-Sep-21	16:57:54	Pre modification peak	Sample:10-210913B17, Compound:NonaF8, RT:21.343	
14-Sep-21	16:57:54	Peak modified	Sample:10-210913B17, Compound:NonaF8, RT:21.343	EG210914MA
14-Sep-21	17:00:11	Peak added	Sample:10-210913B14, Compound:DecaF9, RT:23.276	EG210914MA
14-Sep-21	17:00:11	Peak added	Sample:10-210913B14, Compound:DecaF9, RT:23.276	EG210914MA
14-Sep-21	17:00:27	Peak added	Sample:10-210913B15, Compound:DecaF9, RT:23.267	EG210914MA
14-Sep-21	17:00:27	Peak added	Sample:10-210913B15, Compound:DecaF9, RT:23.284	EG210914MA
14-Sep-21	17:00:44	Peak added	Sample:10-210913B16, Compound:DecaF9, RT:23.258	EG210914MA
14-Sep-21	17:00:44	Peak added	Sample:10-210913B16, Compound:DecaF9, RT:23.267	EG210914MA
14-Sep-21	17:00:53	Peak modified	Sample:10-210913B16, Compound:DecaF9, RT:23.267	EG210914MA
14-Sep-21	17:01:24	Peak added	Sample:10-210913B25, Compound:13CDecaF9, RT:23.284	EG210914MA
14-Sep-21	17:01:24	Peak added	Sample:10-210913B25, Compound:13CDecaF9, RT:23.293	EG210914MA
14-Sep-21	17:01:24	Peak added	Sample:10-210913B25, Compound:DecaF9, RT:23.293	EG210914MA
14-Sep-21	17:01:24	Peak added	Sample:10-210913B25, Compound:DecaF9, RT:23.293	EG210914MA
14-Sep-21	17:01:49	Peak added	Sample:10-210913B28, Compound:DecaF9, RT:23.284	EG210914MA
14-Sep-21	17:01:49	Peak added	Sample:10-210913B28, Compound:DecaF9, RT:23.284	EG210914MA
14-Sep-21	17:02:08	Peak modified	Sample:10-210913B28, Compound:DecaF9, RT:23.284	EG210914MA
14-Sep-21	17:02:30	Peak added	Sample:10-210913B31, Compound:DecaF9, RT:23.276	EG210914MA
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Quantify Audit Report MassLynx MassLynx V4.1 SCN 901

Dataset: I:\Organics Instrument\HIGHRES GCMS Completed Results Files\HR-10\2021\2109\10-210913B-Q1-PBDE.qld

Last Altered: Thursday, September 16, 2021 14:59:12 Eastern Daylight Time
Printed: Friday, September 17, 2021 12:20:40 Eastern Daylight Time

Date	Time	Event	Details	Comments
14-Sep-21	17:03:09	Peak added	Sample:10-210913B14, Compound:DBDPEF10, RT:24.659	EG210914MA
14-Sep-21	17:03:09	Peak added	Sample:10-210913B14, Compound:DBDPEF10, RT:24.659	EG210914MA
14-Sep-21	17:03:31	Pre modification peak	Sample:10-210913B17, Compound:DBDPEF10, RT:24.648	
14-Sep-21	17:03:31	Peak modified	Sample:10-210913B17, Compound:DBDPEF10, RT:24.648	EG210914MB
14-Sep-21	17:04:07	Peak added	Sample:10-210913B28, Compound:DBDPEF10, RT:24.700	EG210914MA
14-Sep-21	17:04:07	Peak added	Sample:10-210913B28, Compound:DBDPEF10, RT:24.659	EG210914MA
14-Sep-21	17:04:20	Dataset Saved	Saved to 'I:\Organics Instrument\HIGHRES GCMS Complete...	
16-Sep-21	17:13:46	Dataset Saved	Saved to 'I:\Organics Instrument\HIGHRES GCMS Complete...	

Method: C:\MassLynx\PBDE.PRO\MethDB\PBDEX-DB5-1-210913B.mdb 14 Sep 2021 11:10:04
Calibration: C:\MassLynx\PBDE.PRO\CurveDB\10-210913B-ICAL-PBDE.cdb 14 Sep 2021 11:07:06

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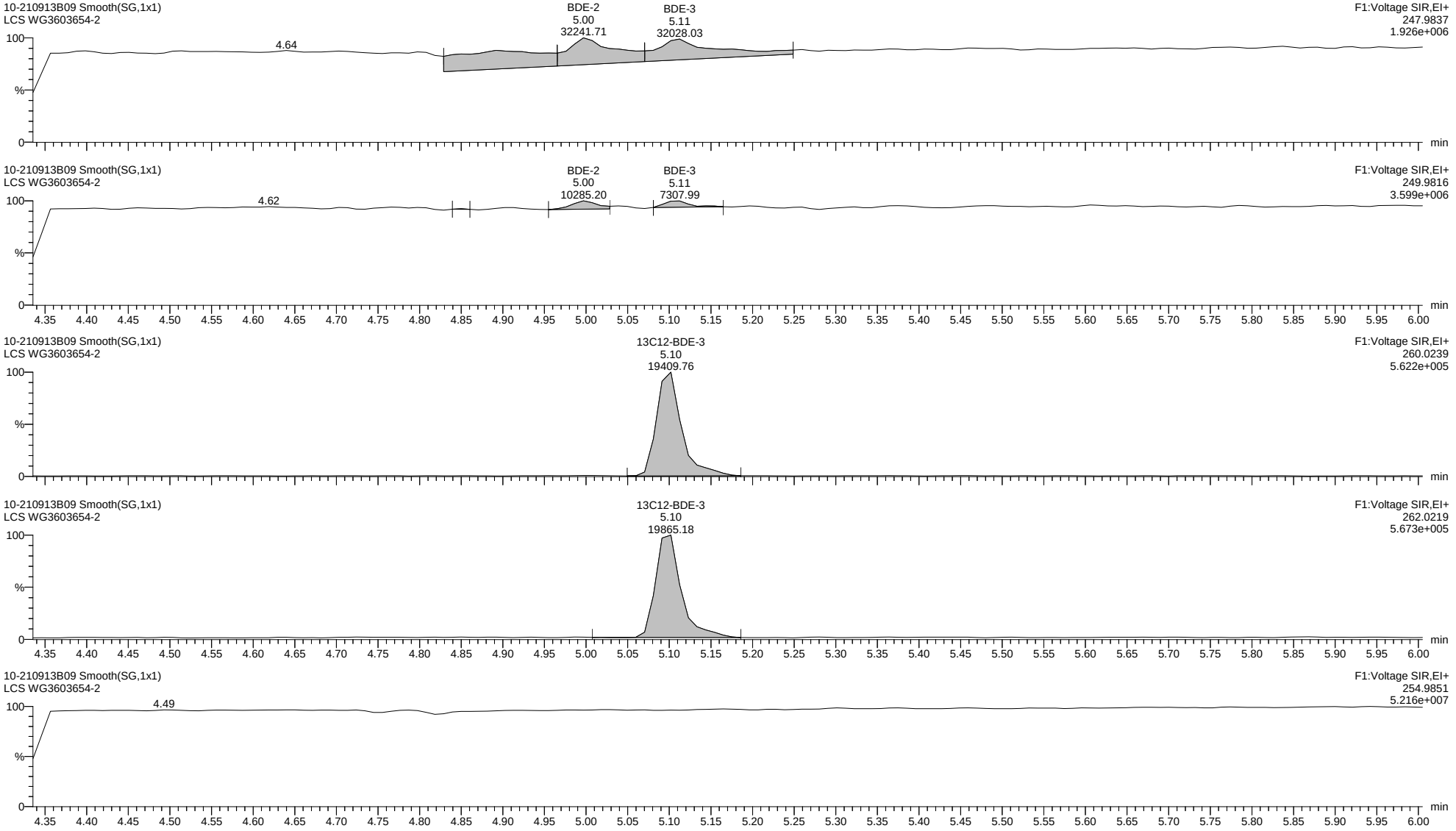

Quantify Sample Template Report **MassLynx MassLynx V4.1 SCN 901**

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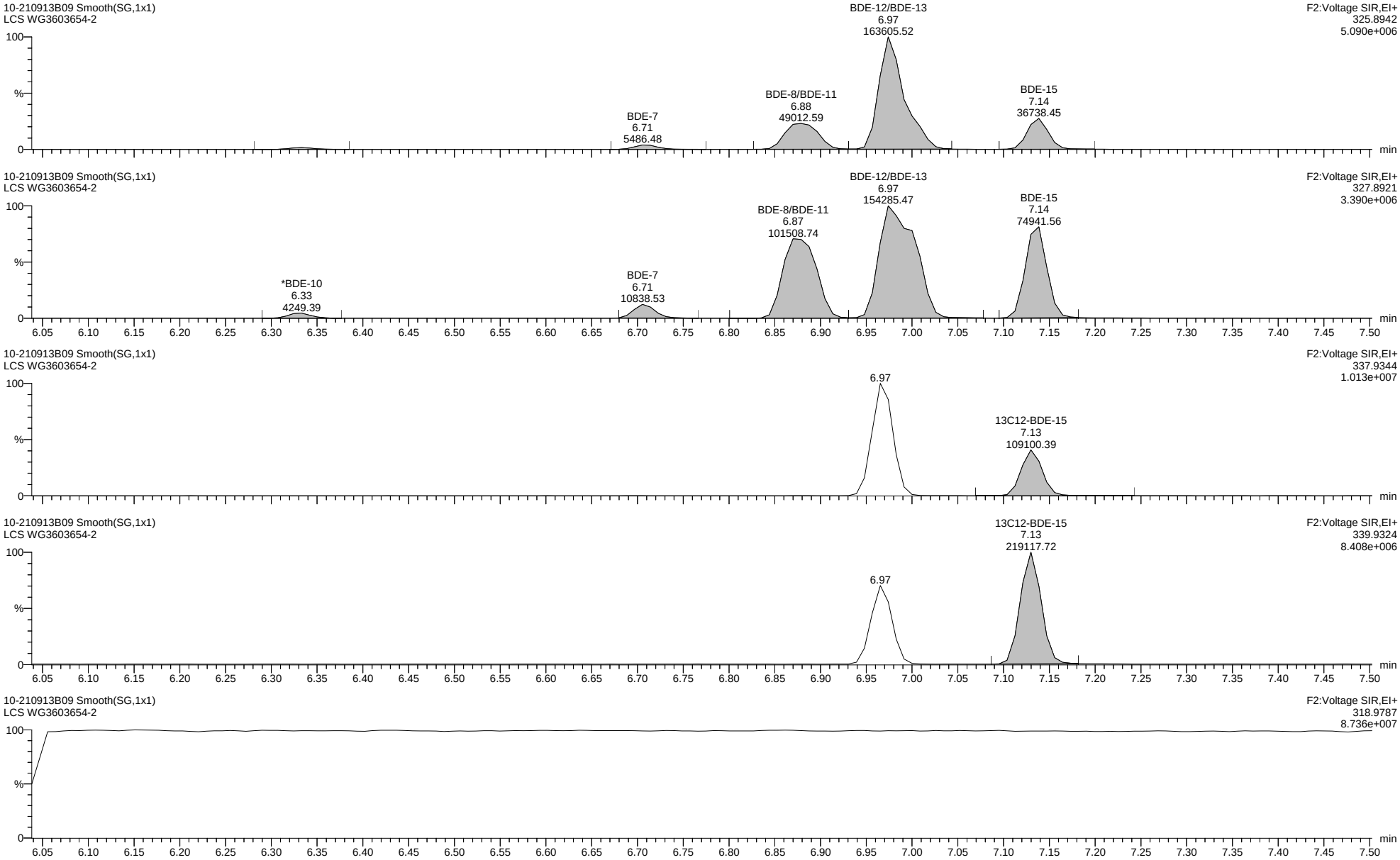

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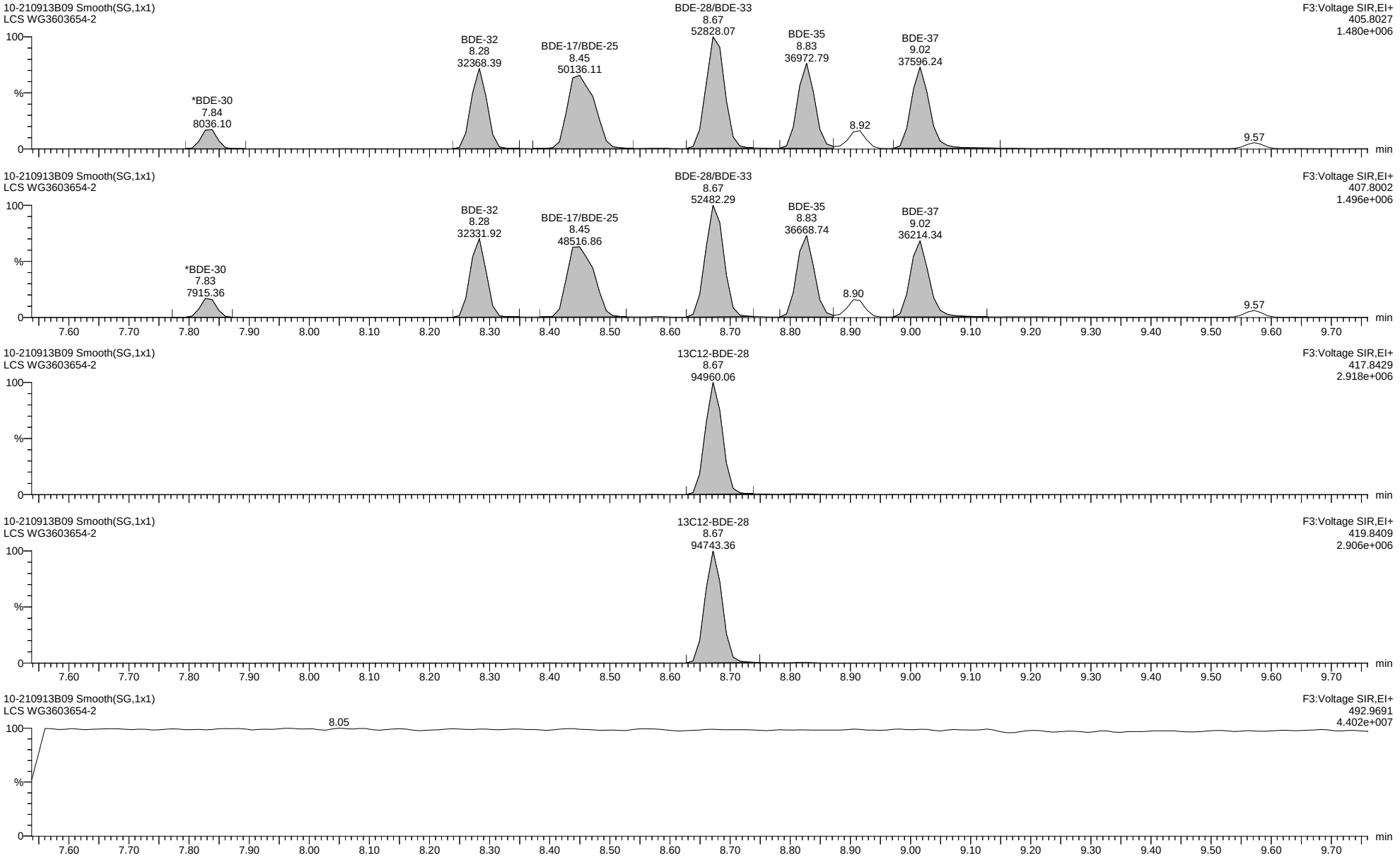

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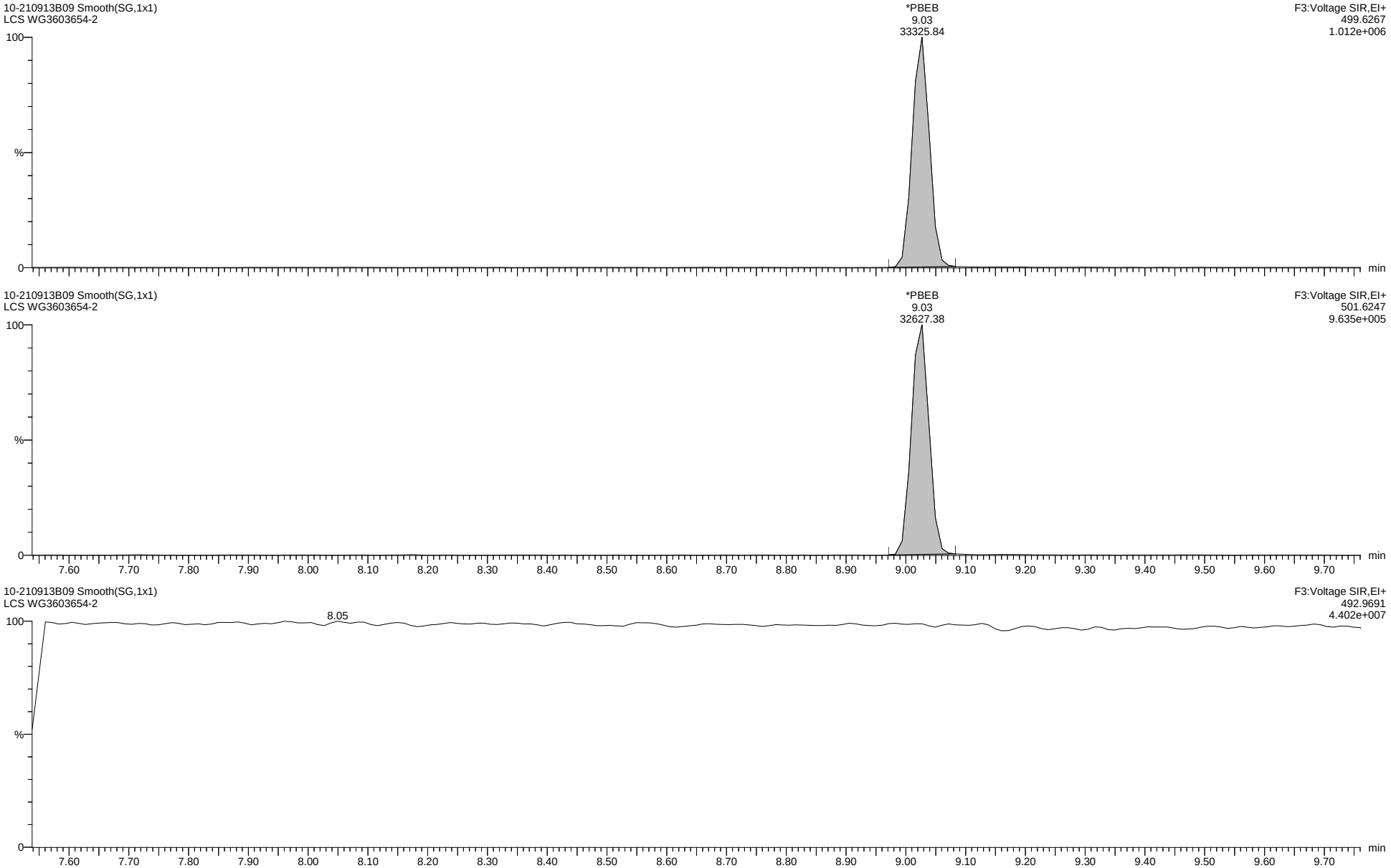

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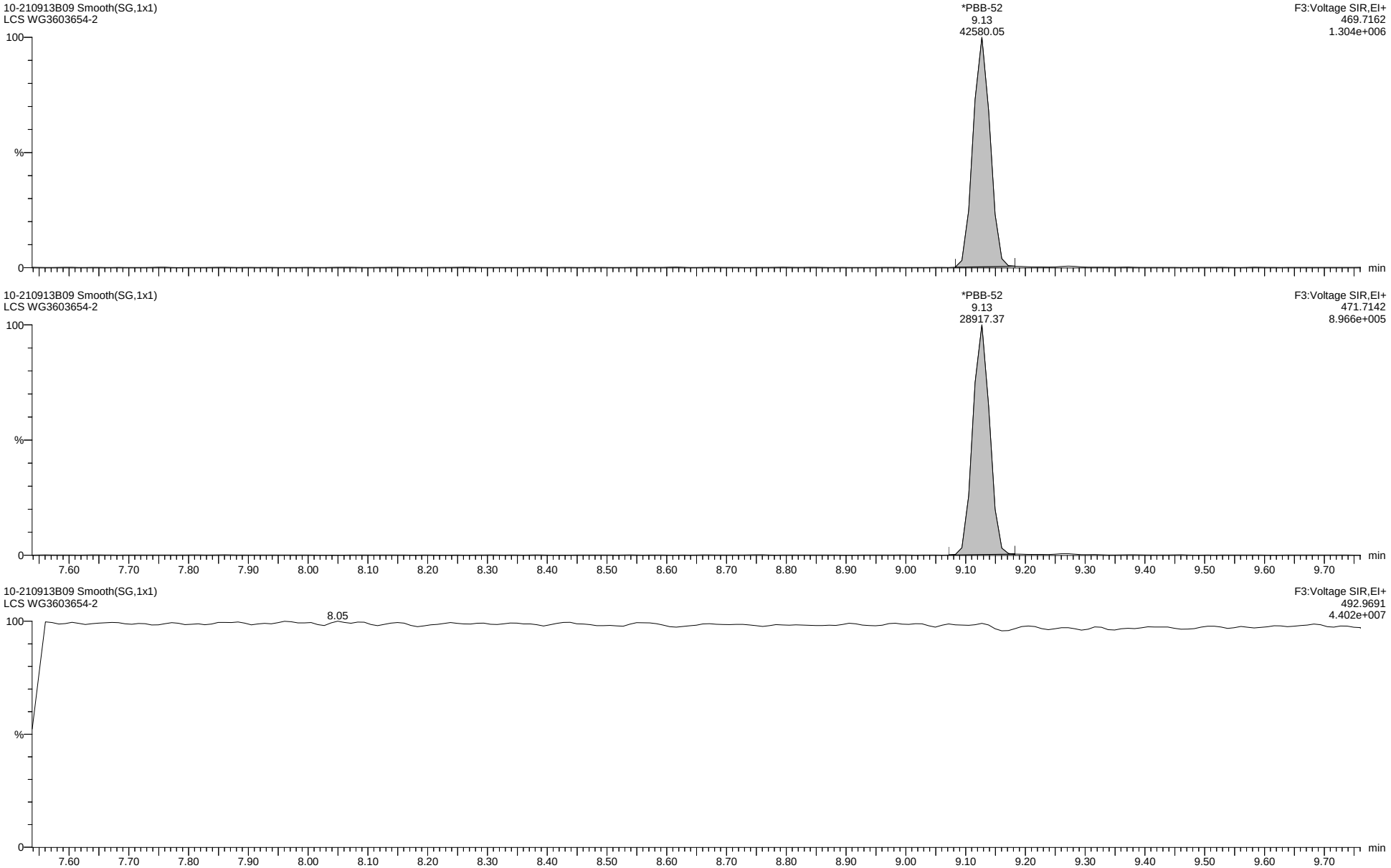

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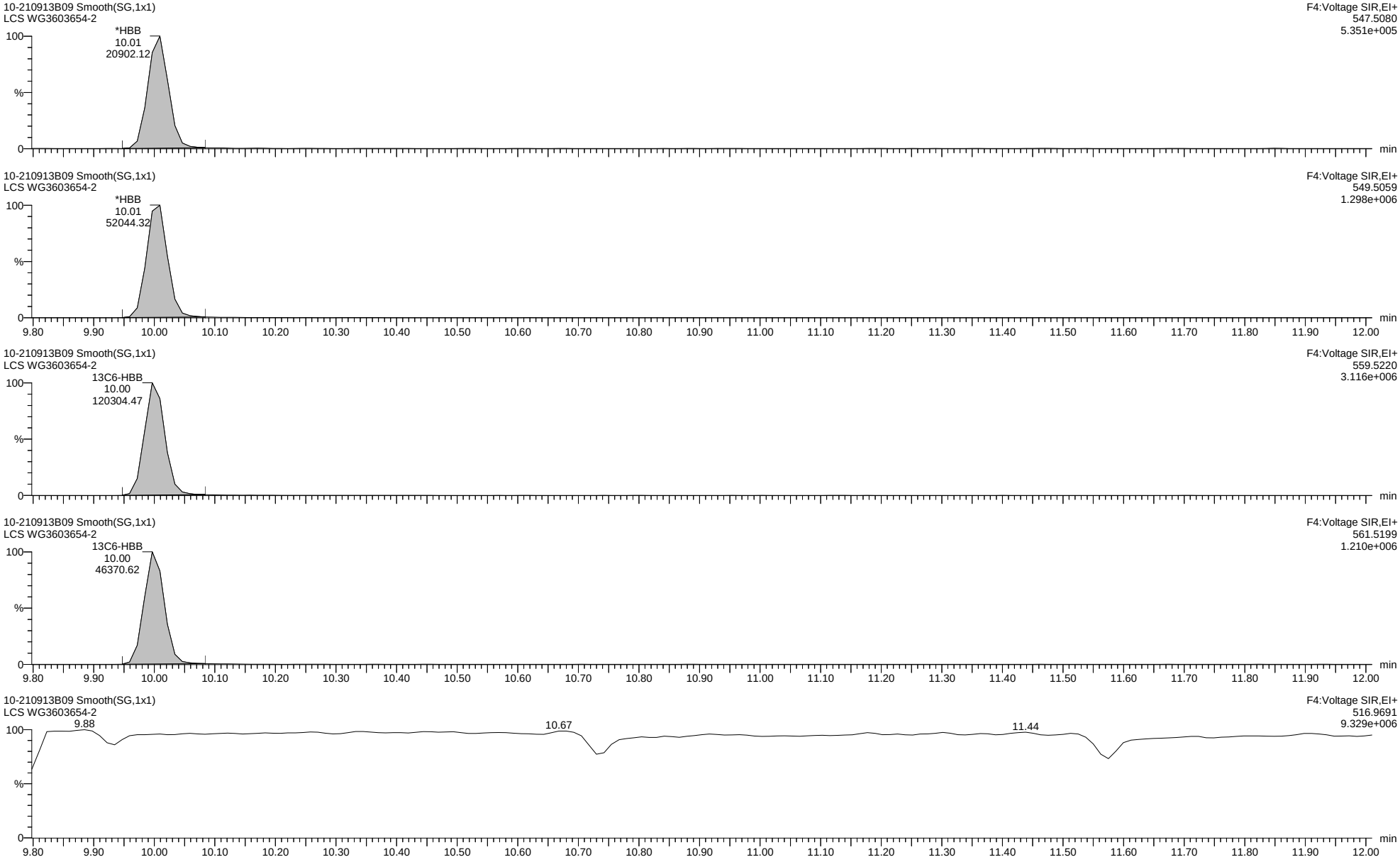

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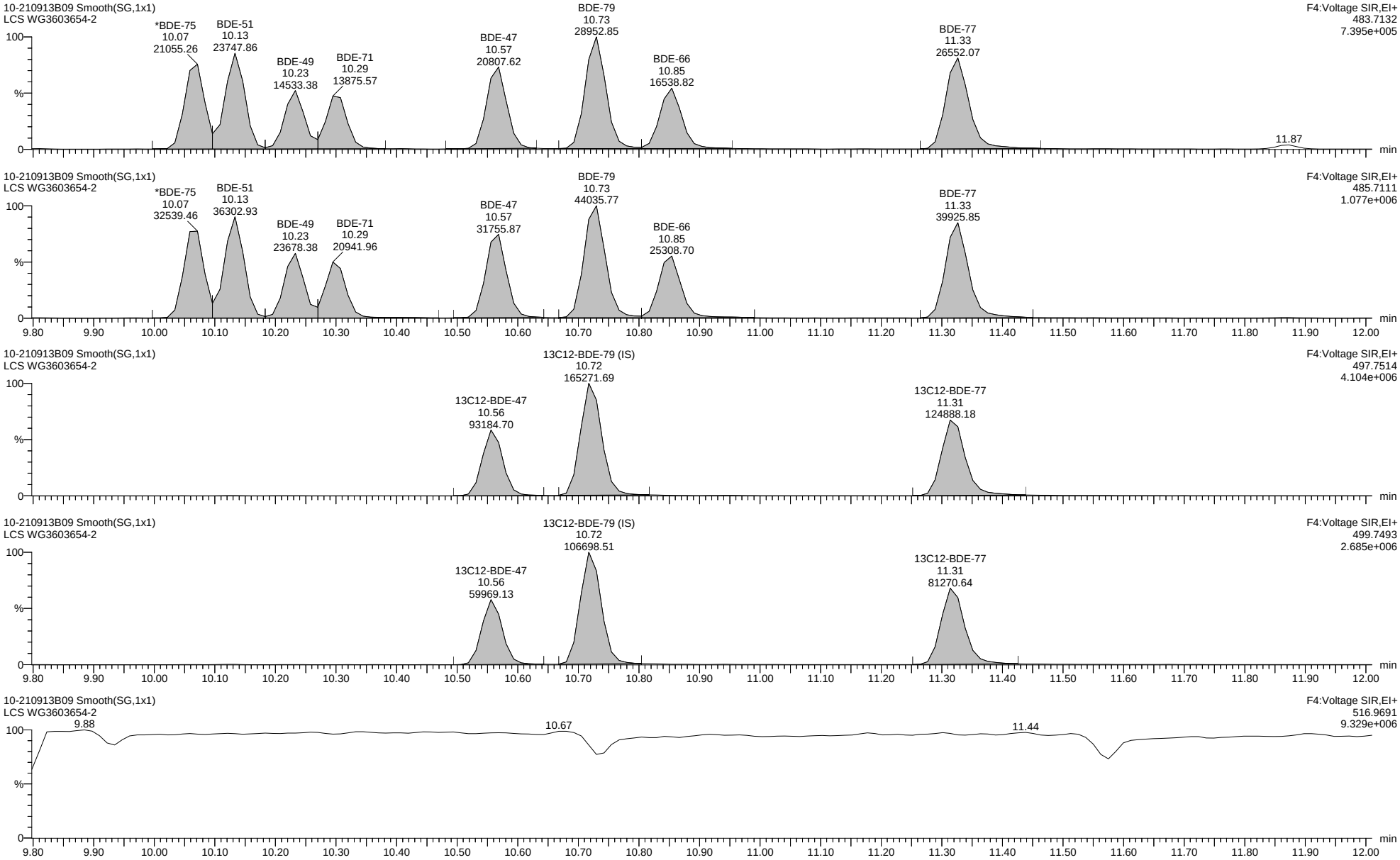

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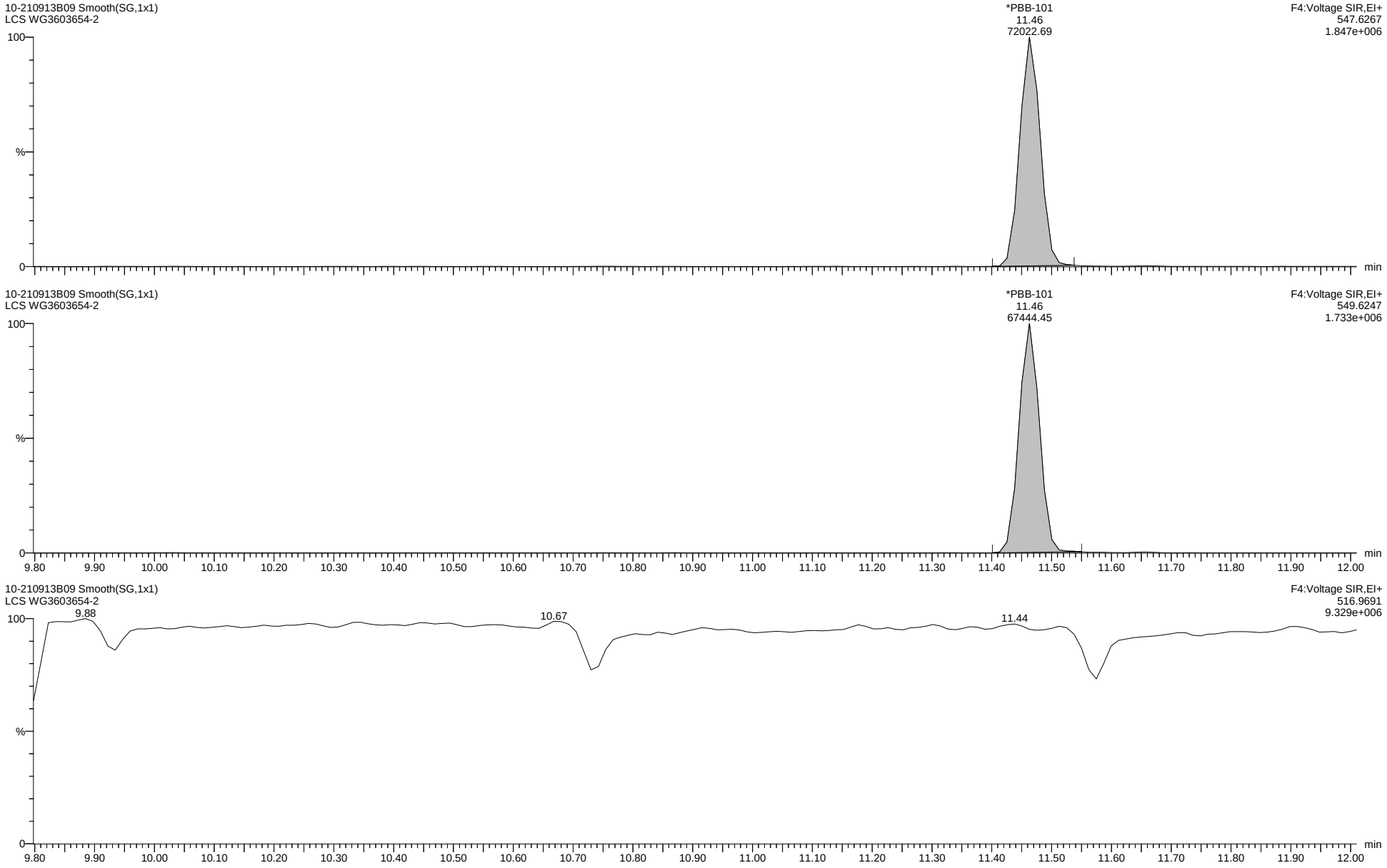

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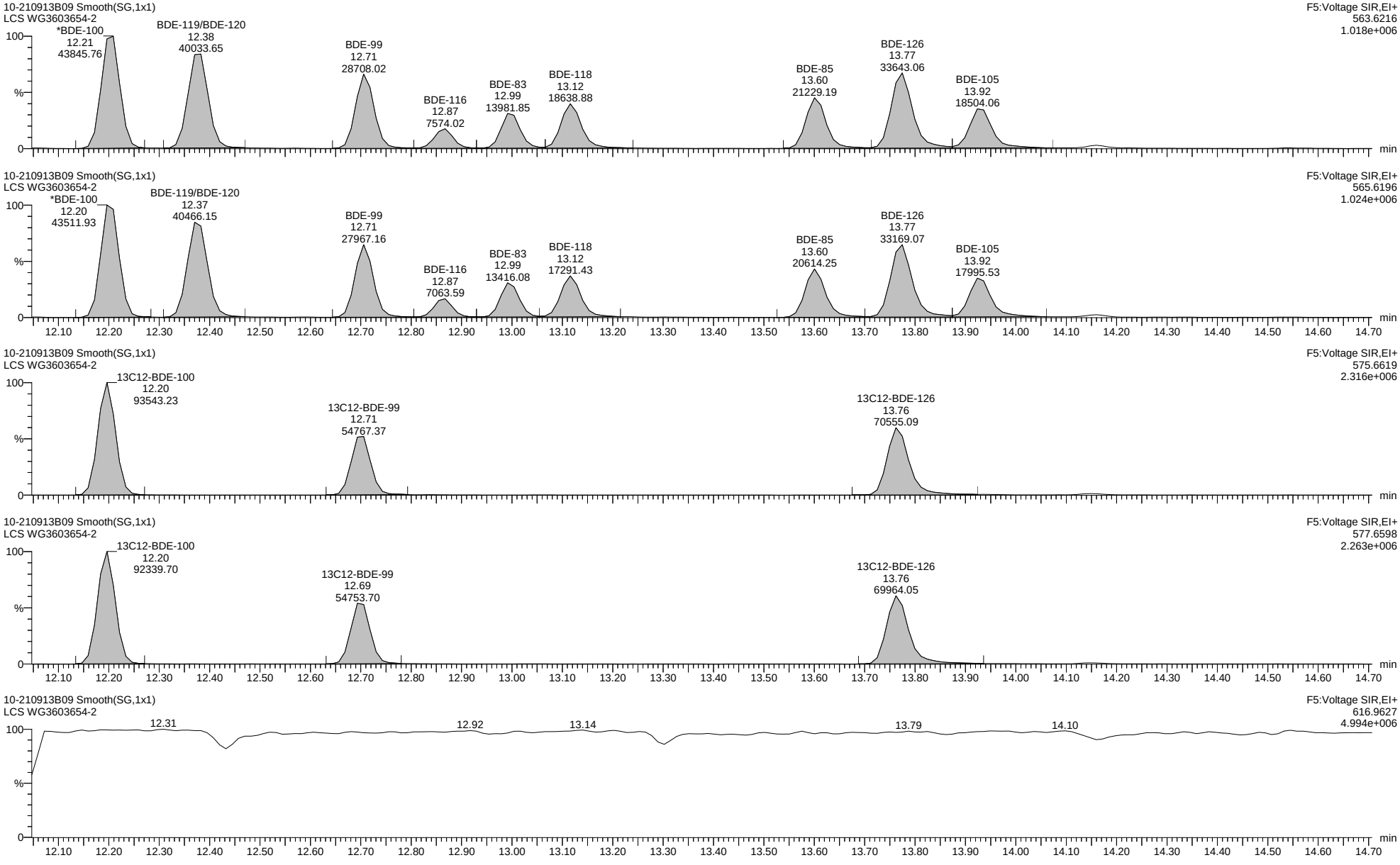

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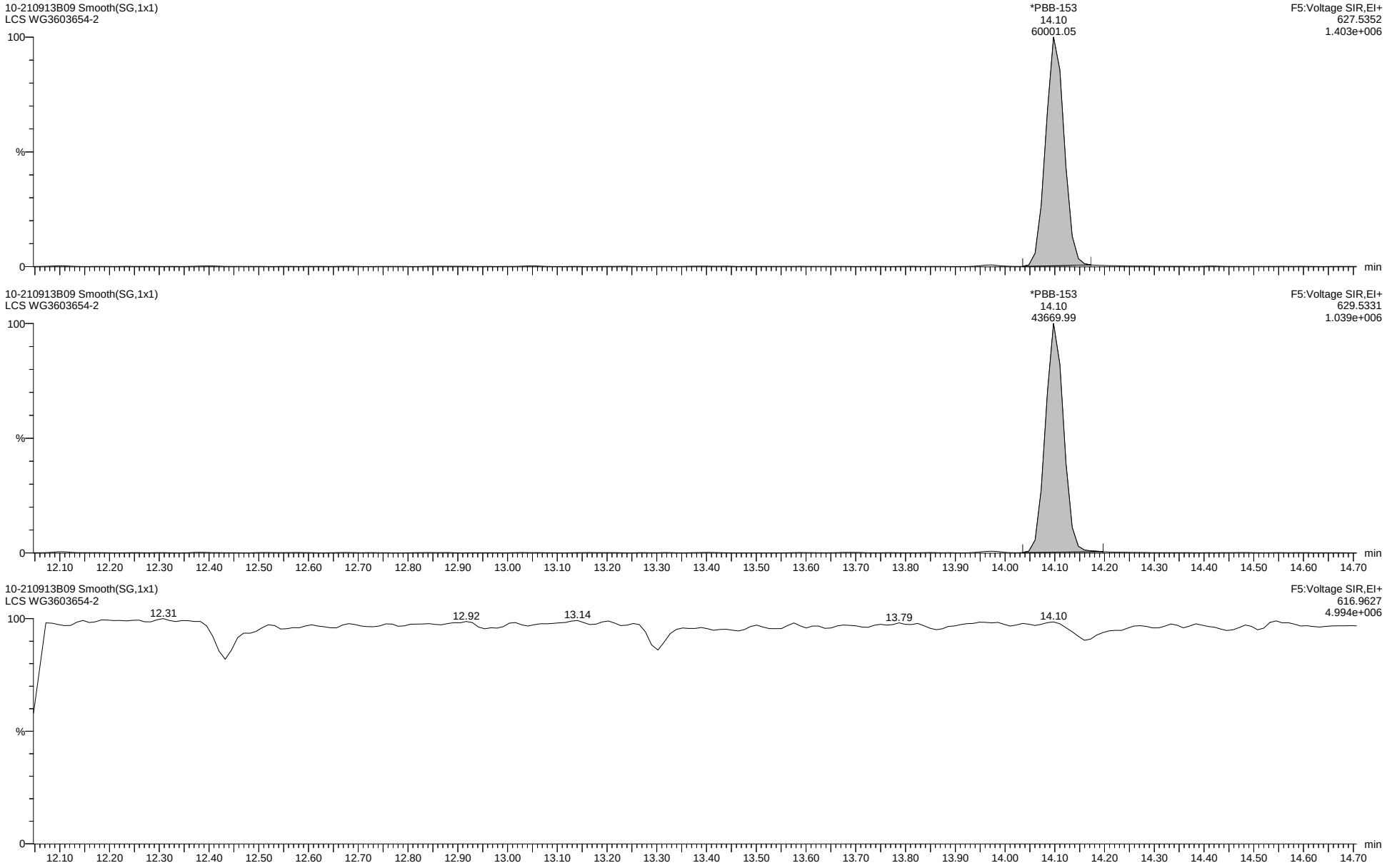

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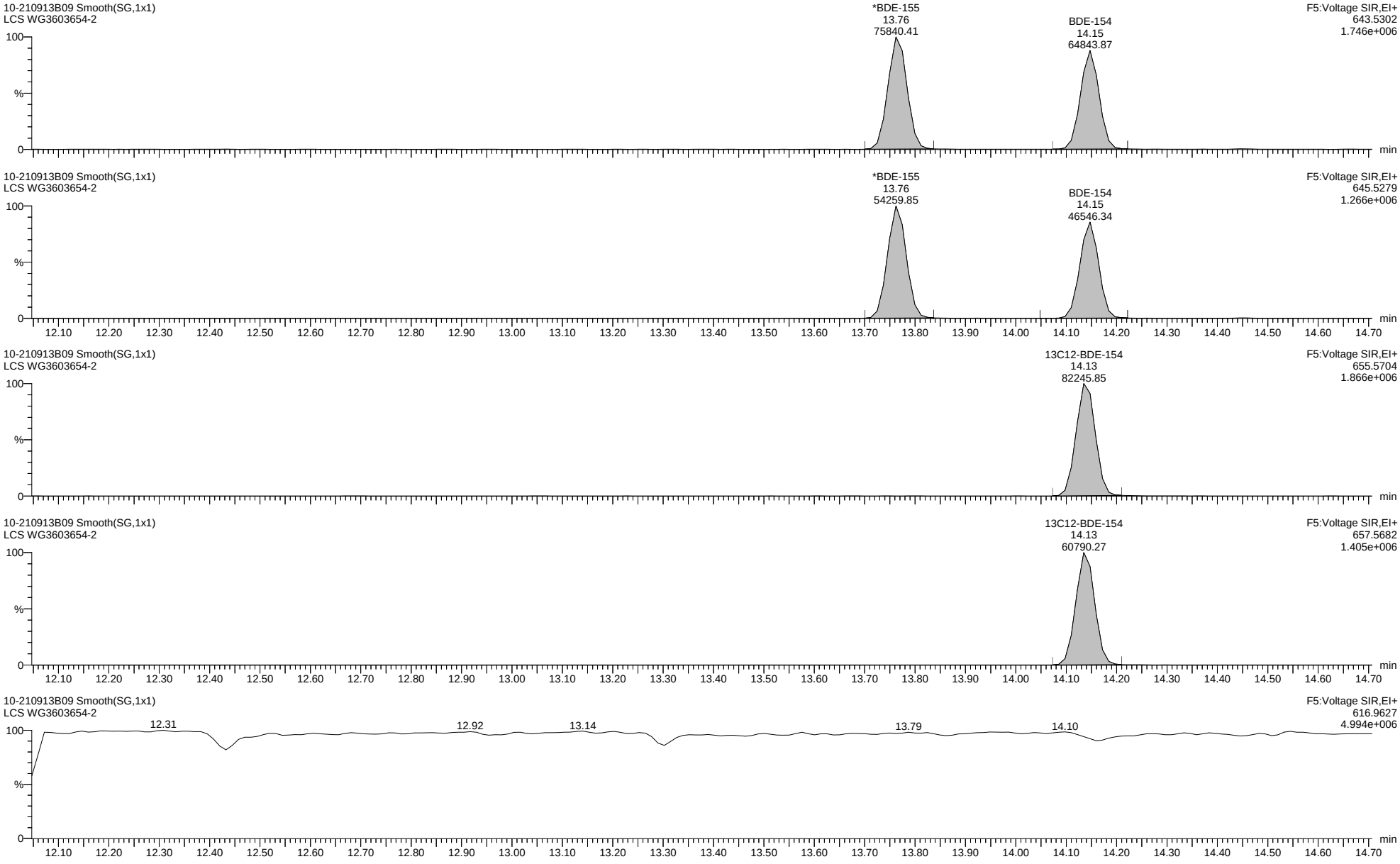

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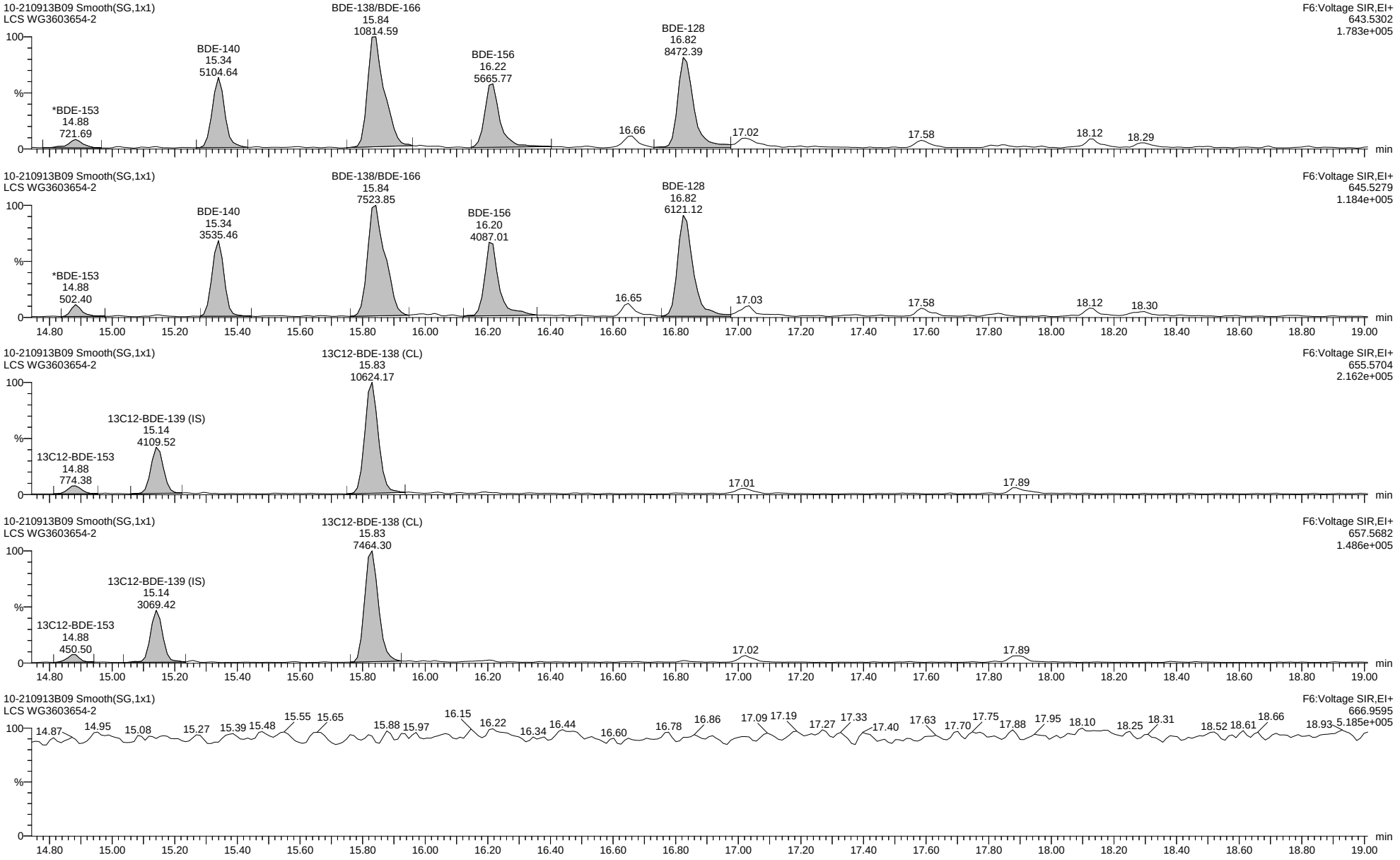

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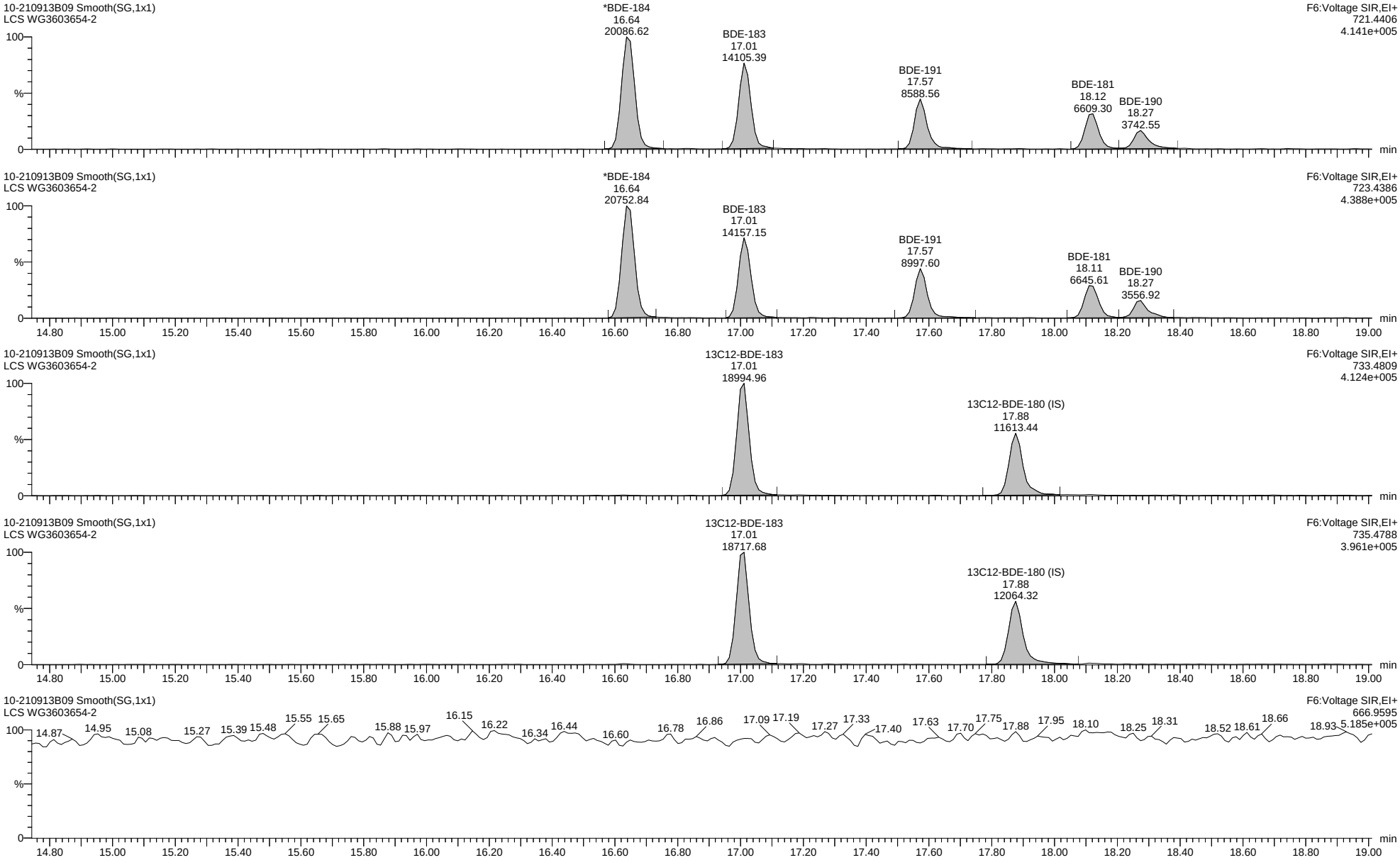

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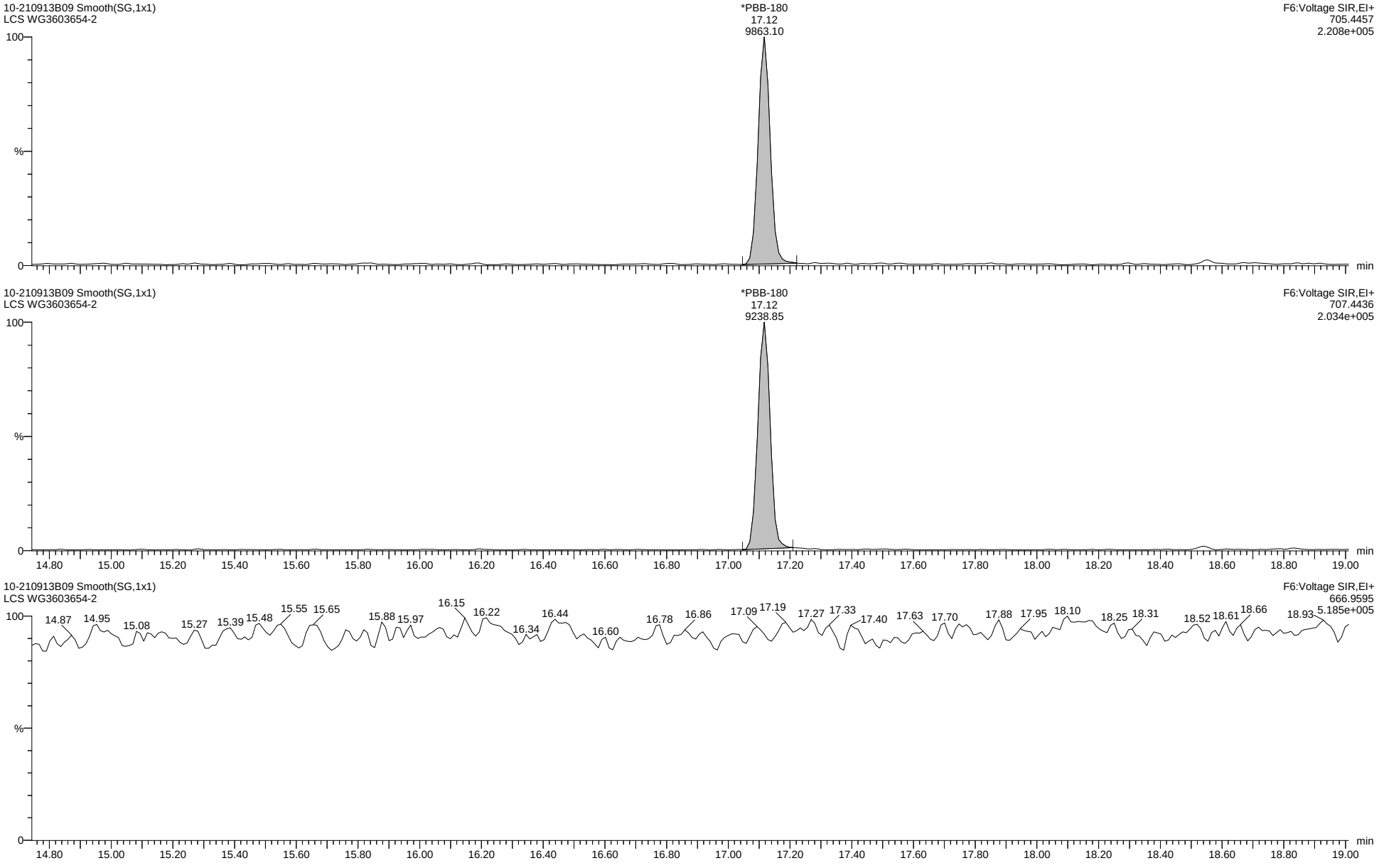

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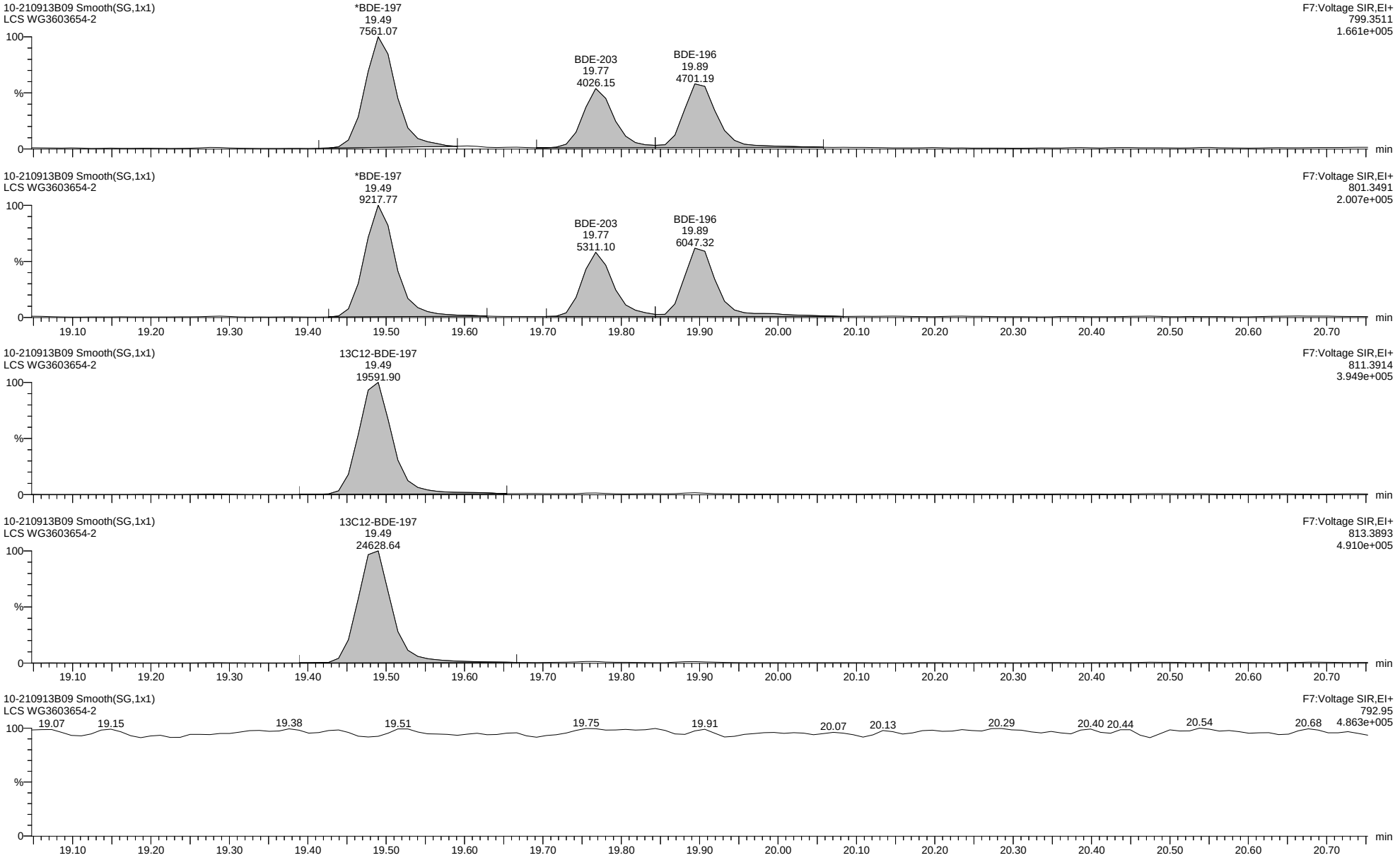

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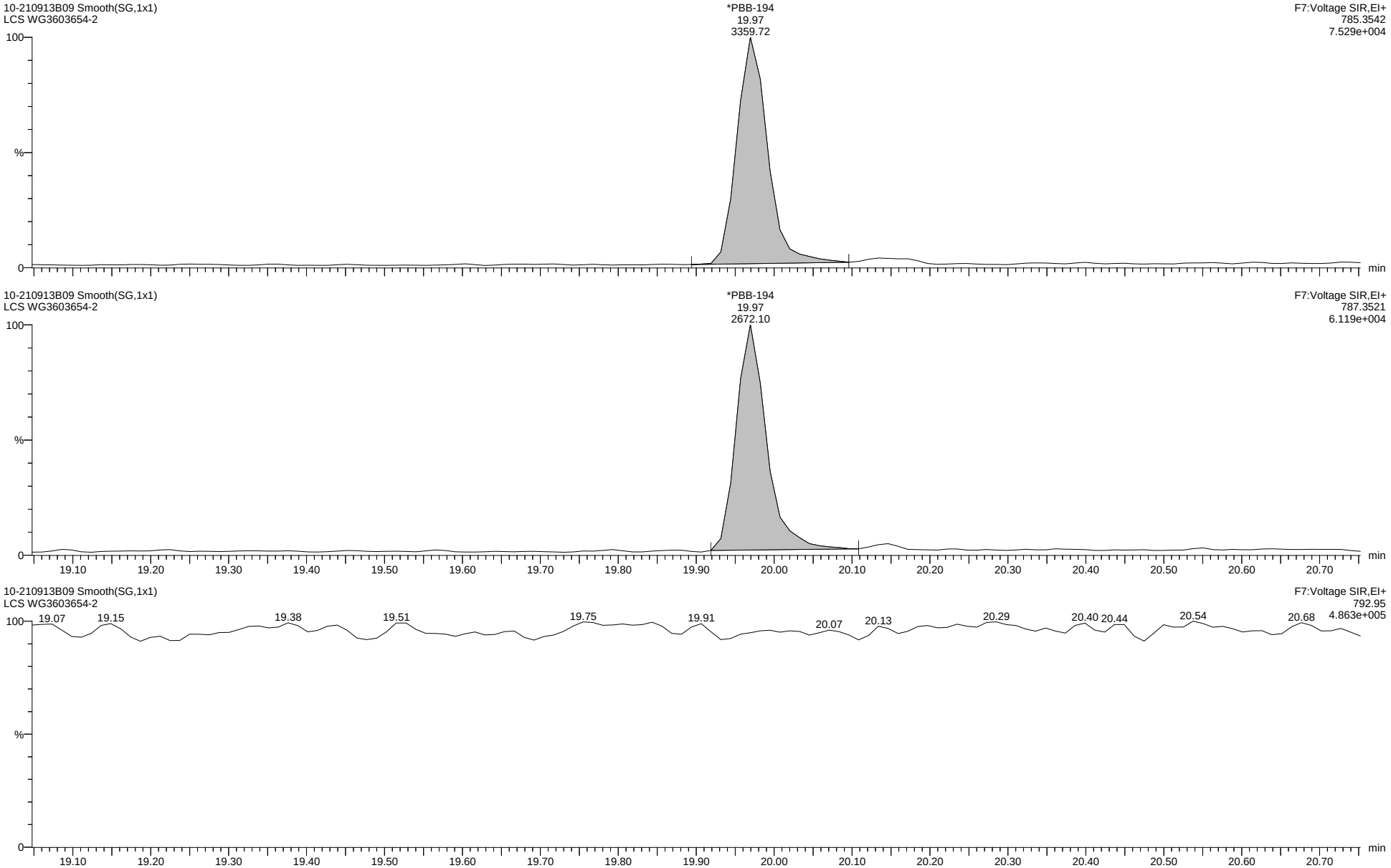

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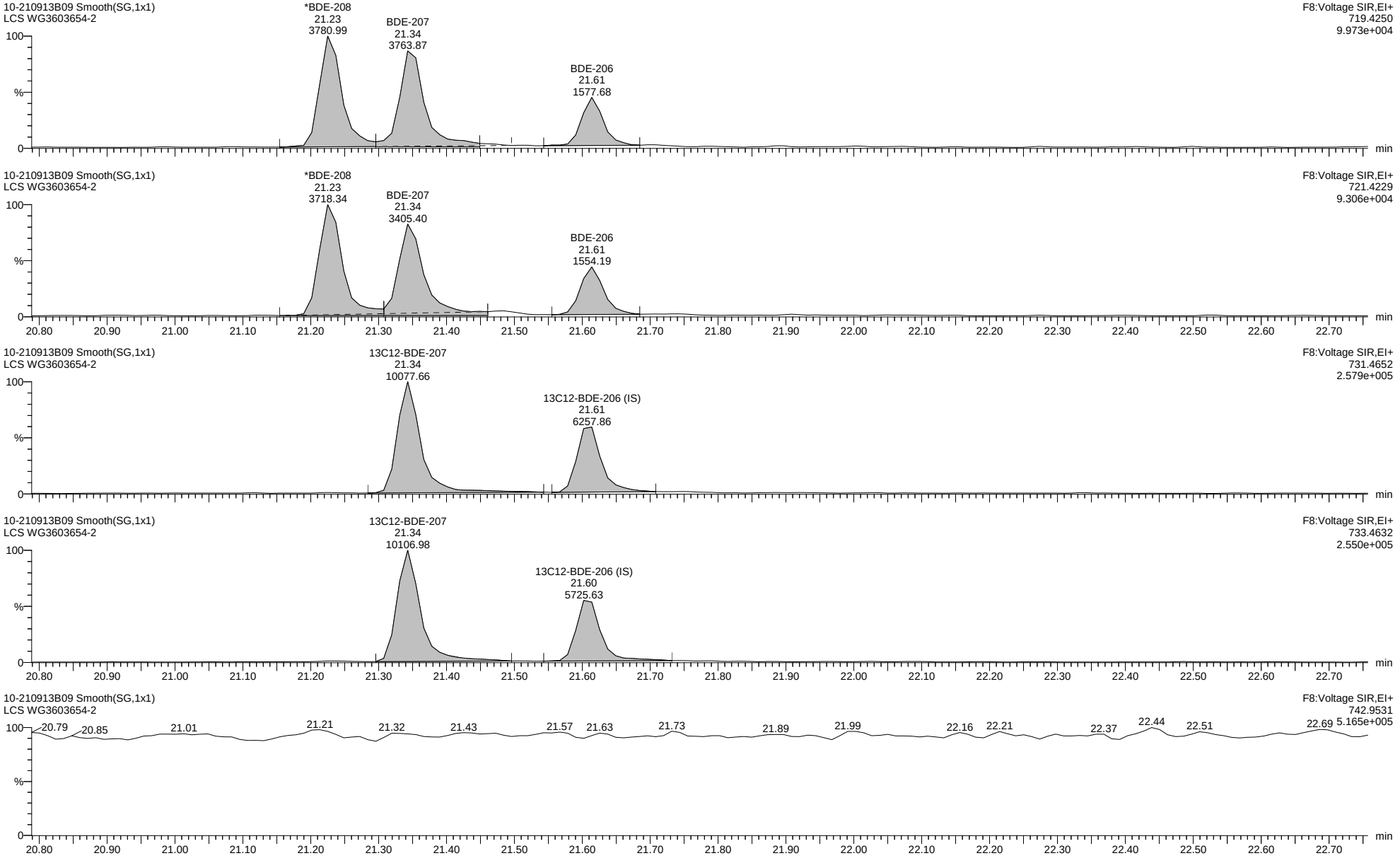

Quantify Sample Template Report **MassLynx MassLynx V4.1 SCN 901**

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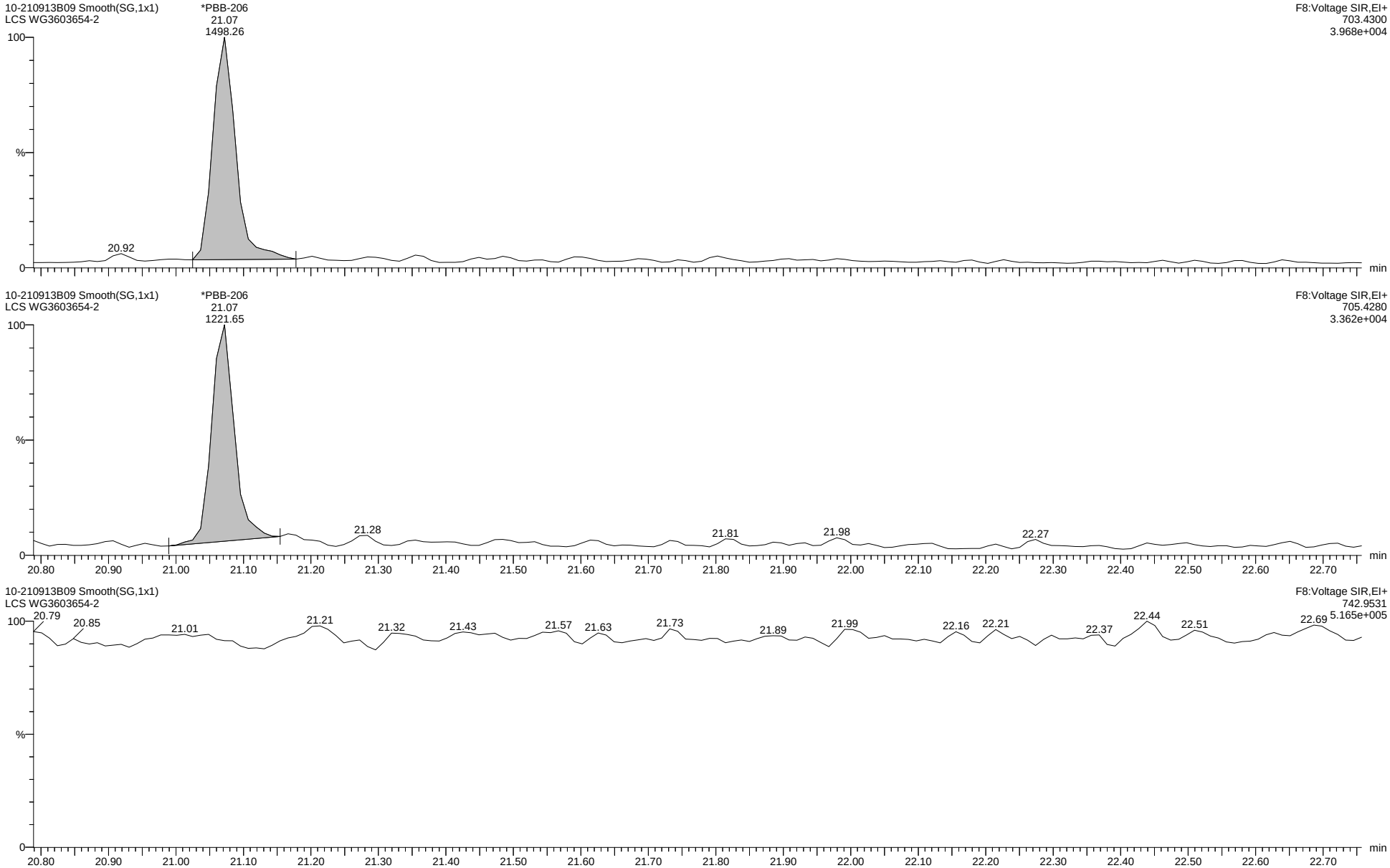

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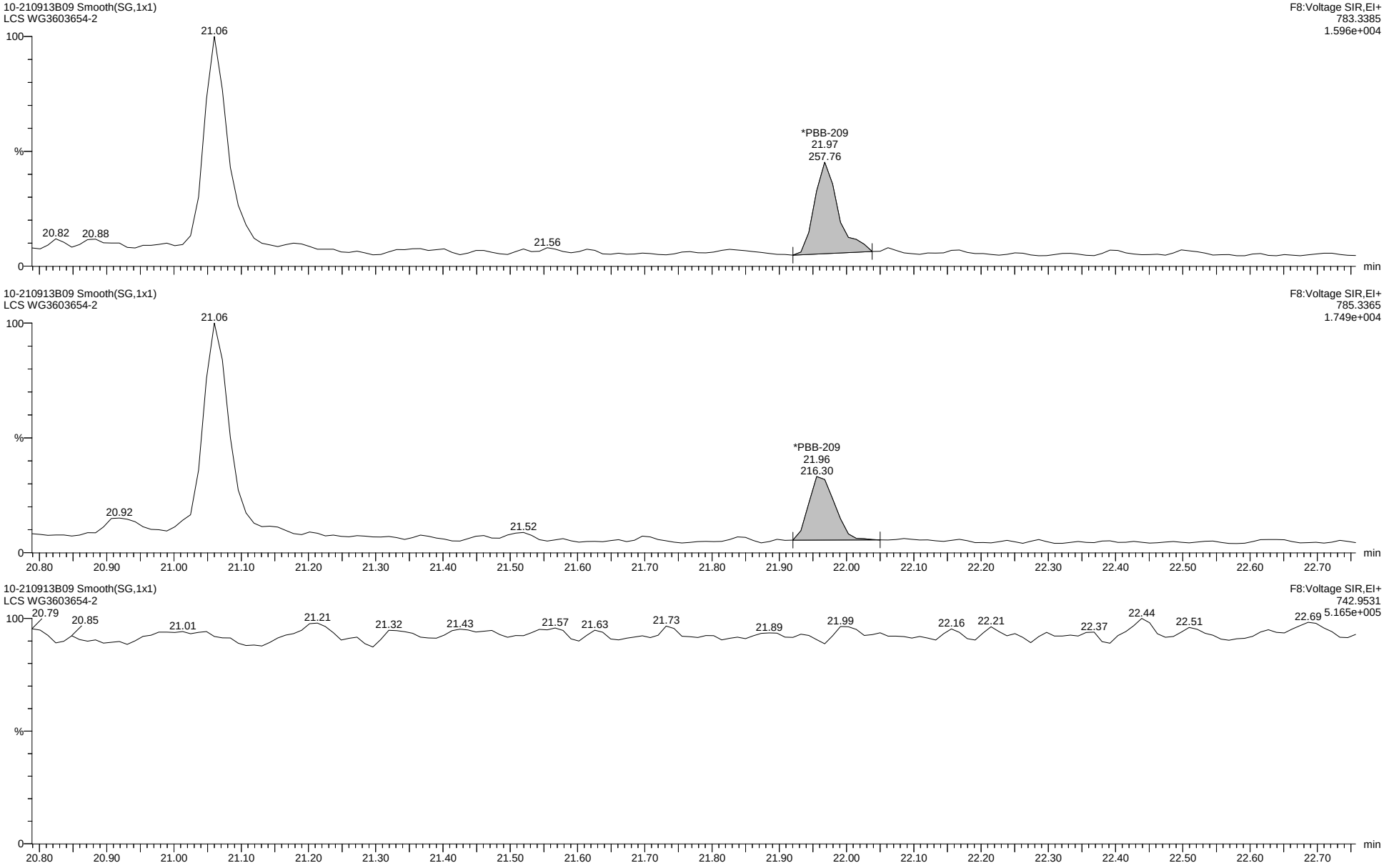

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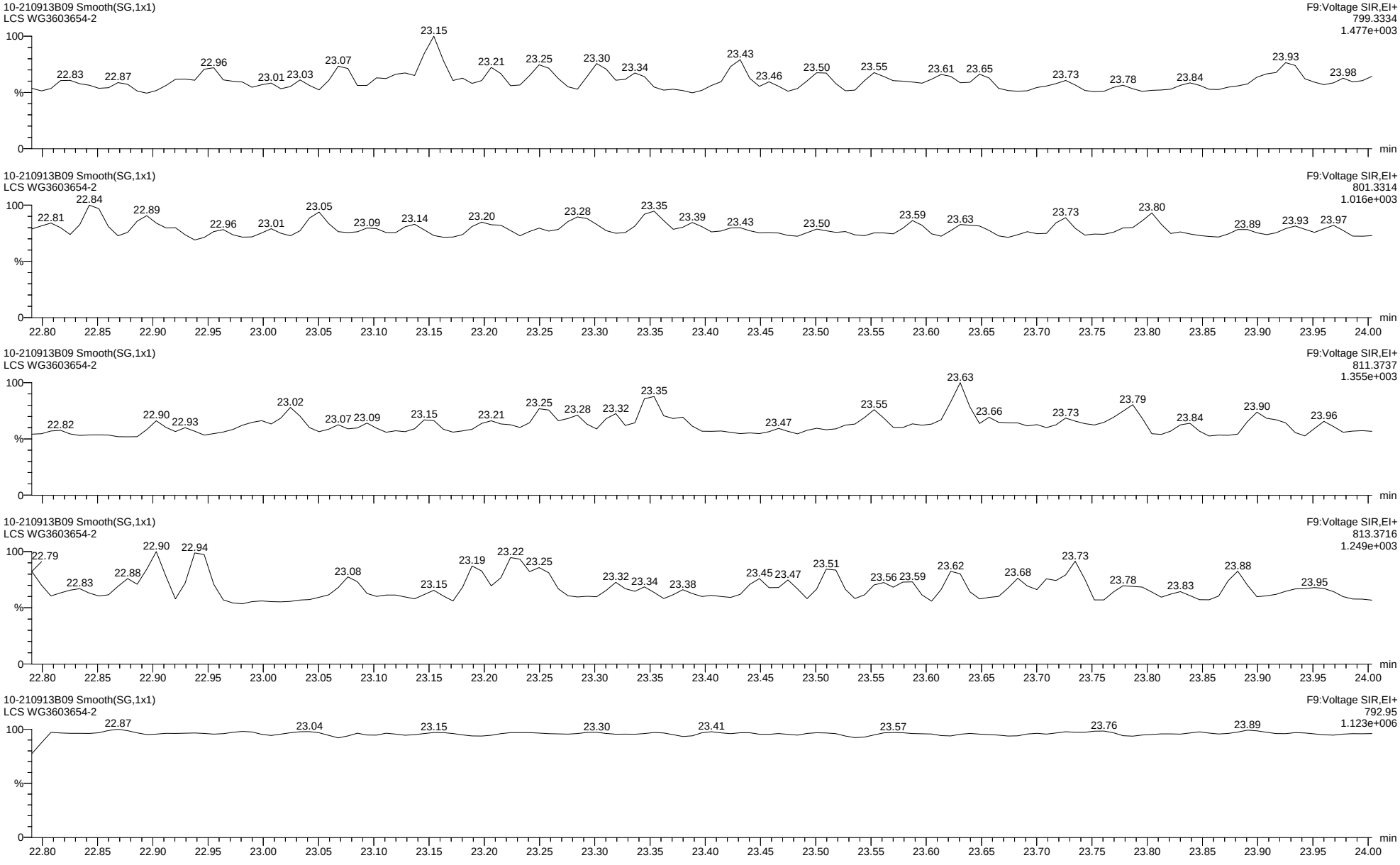

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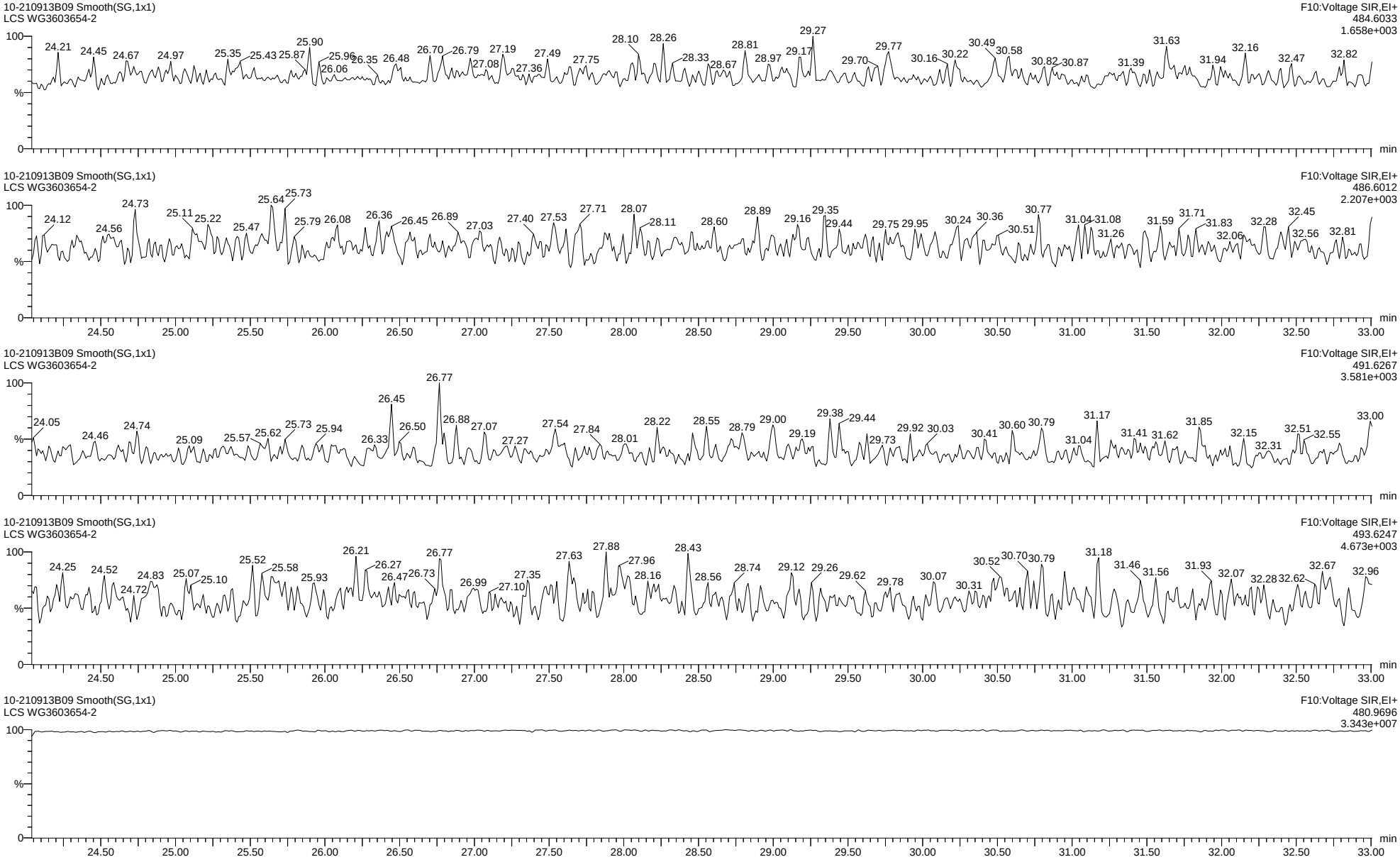

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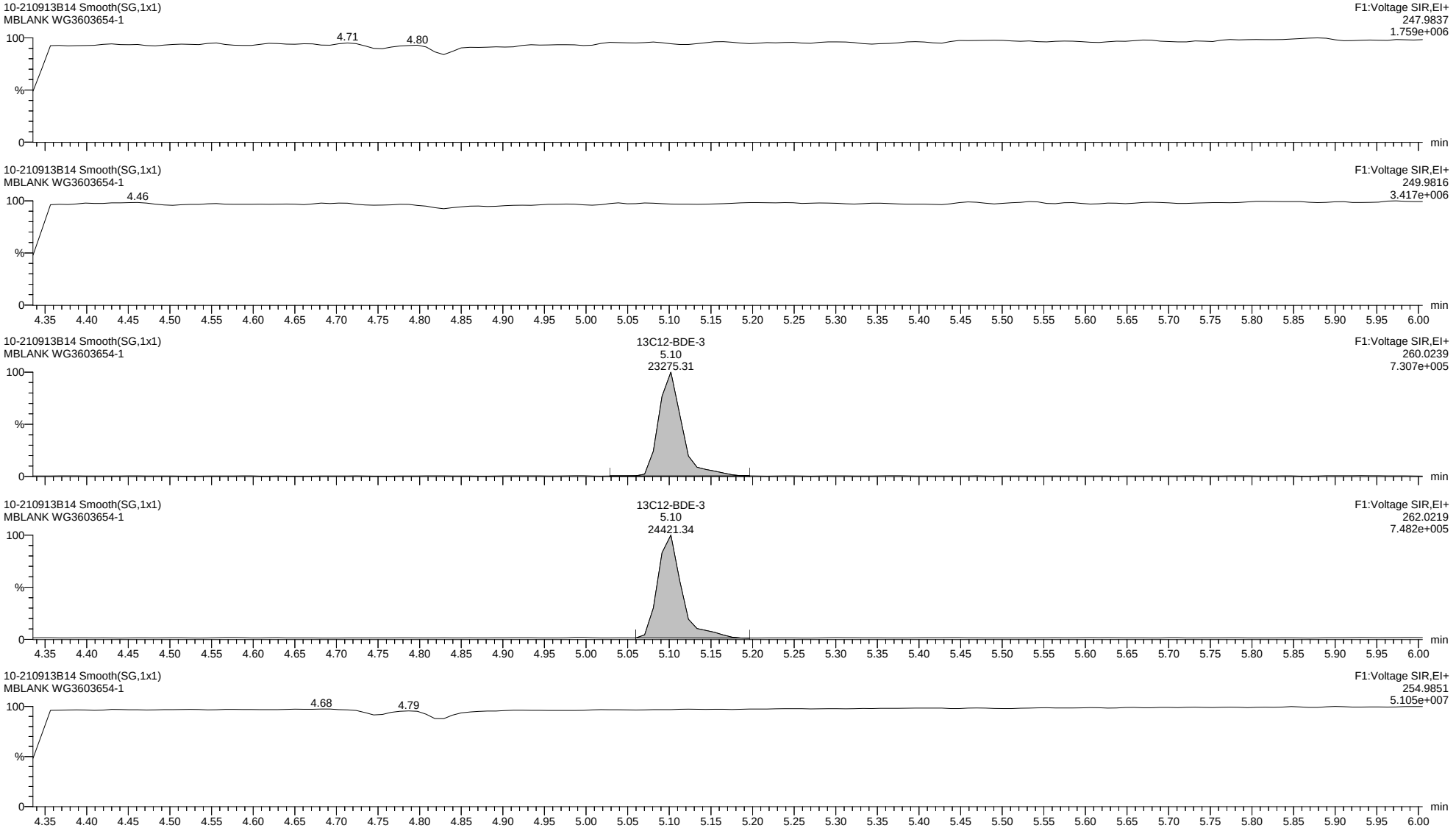

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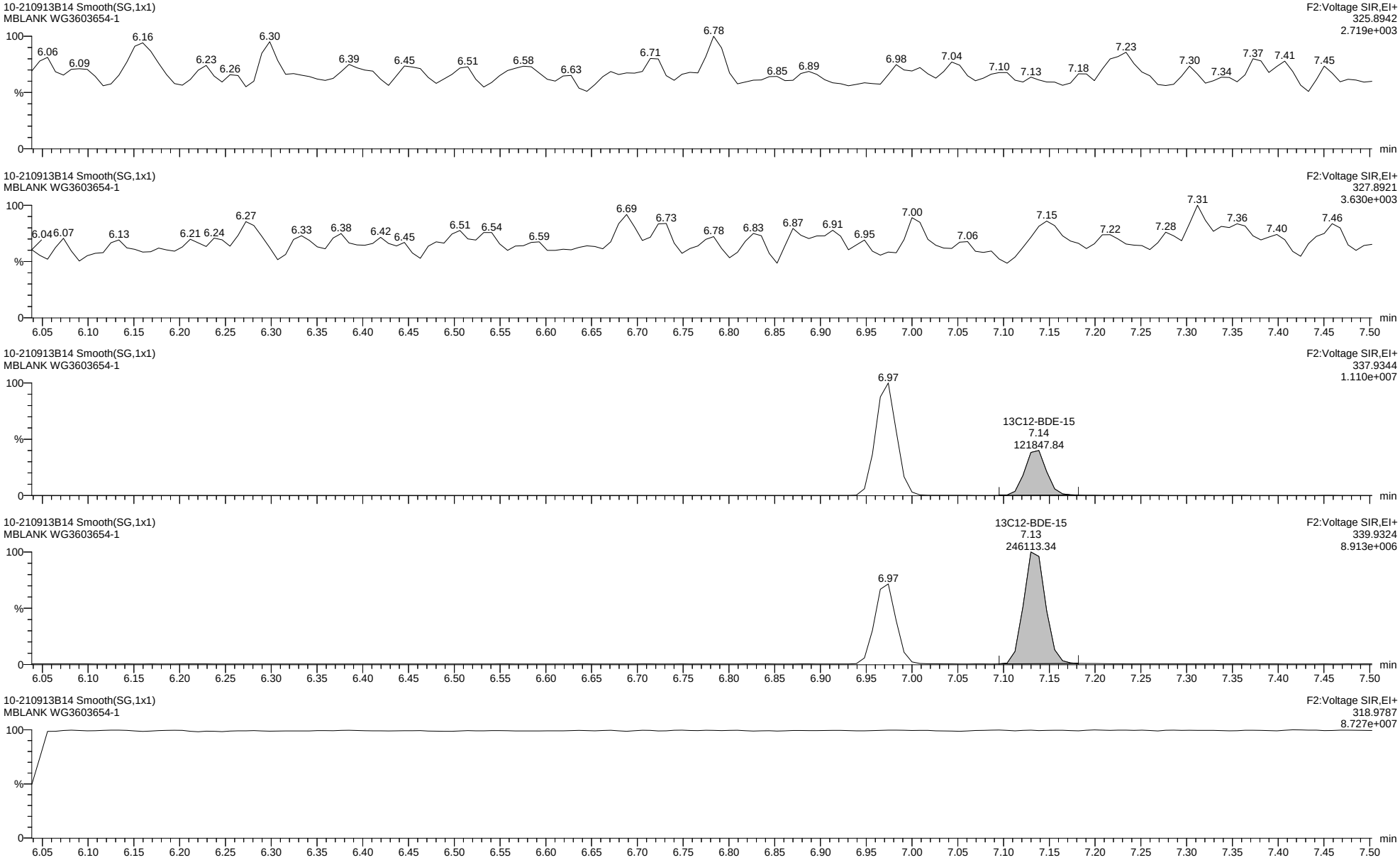

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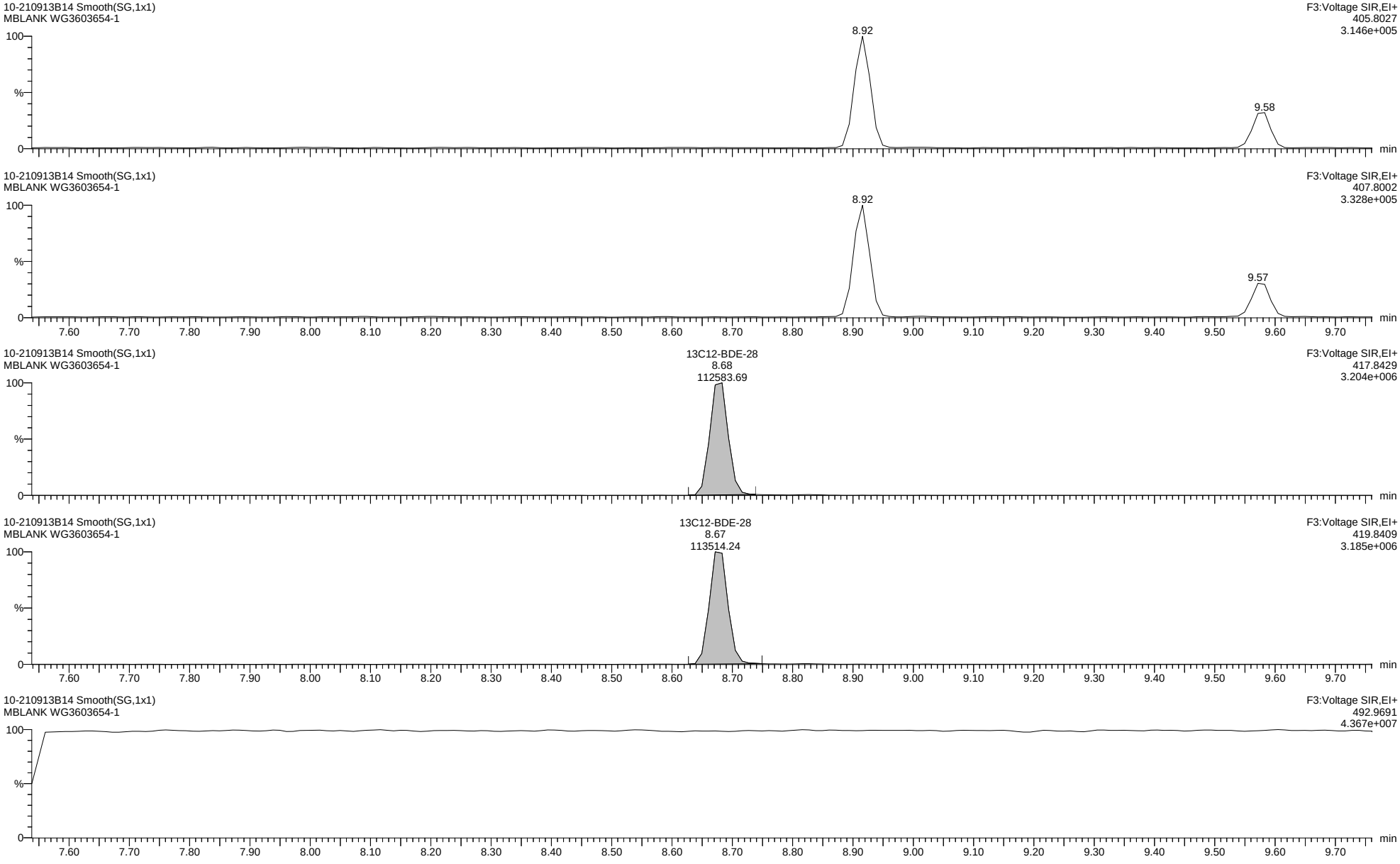

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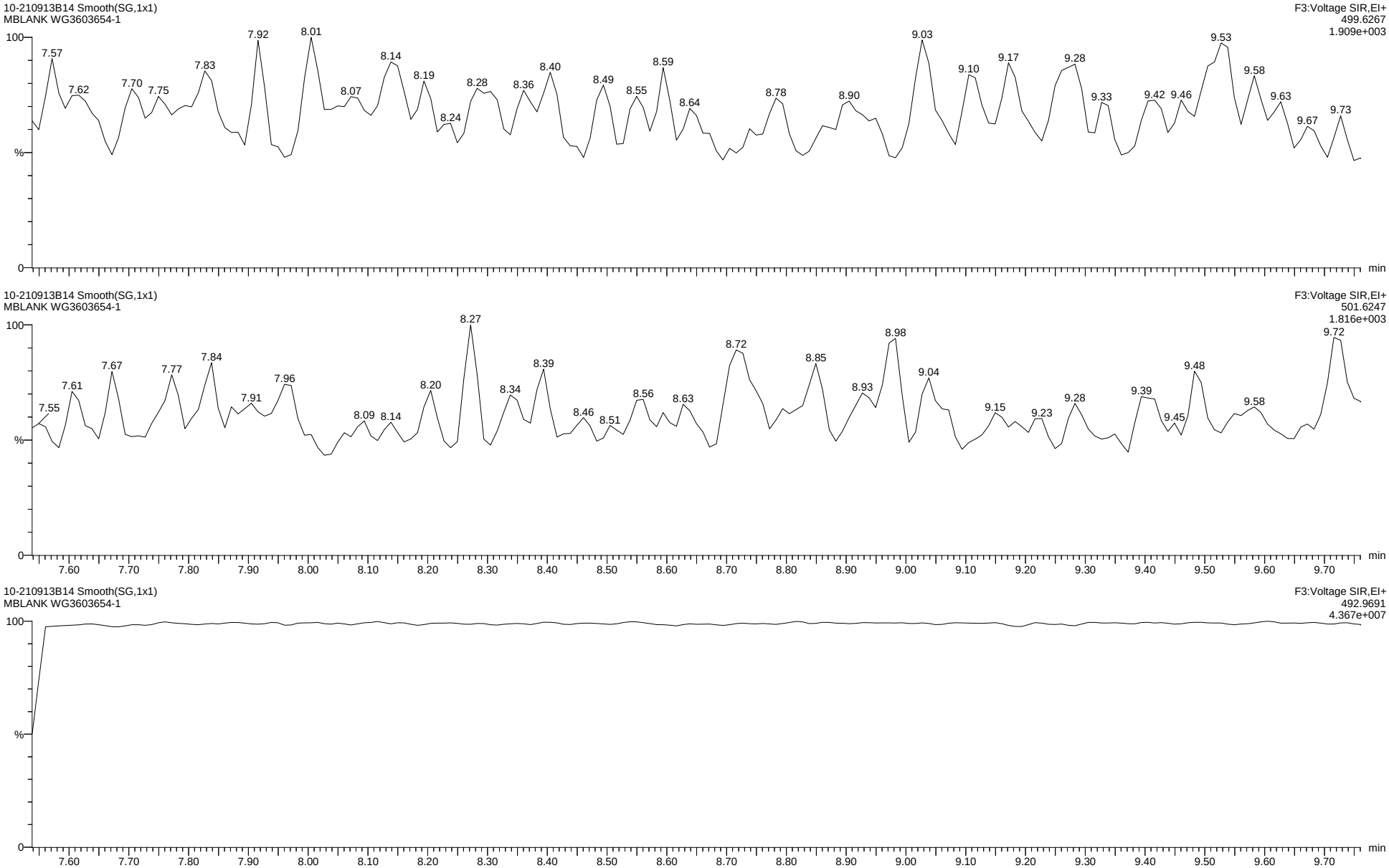

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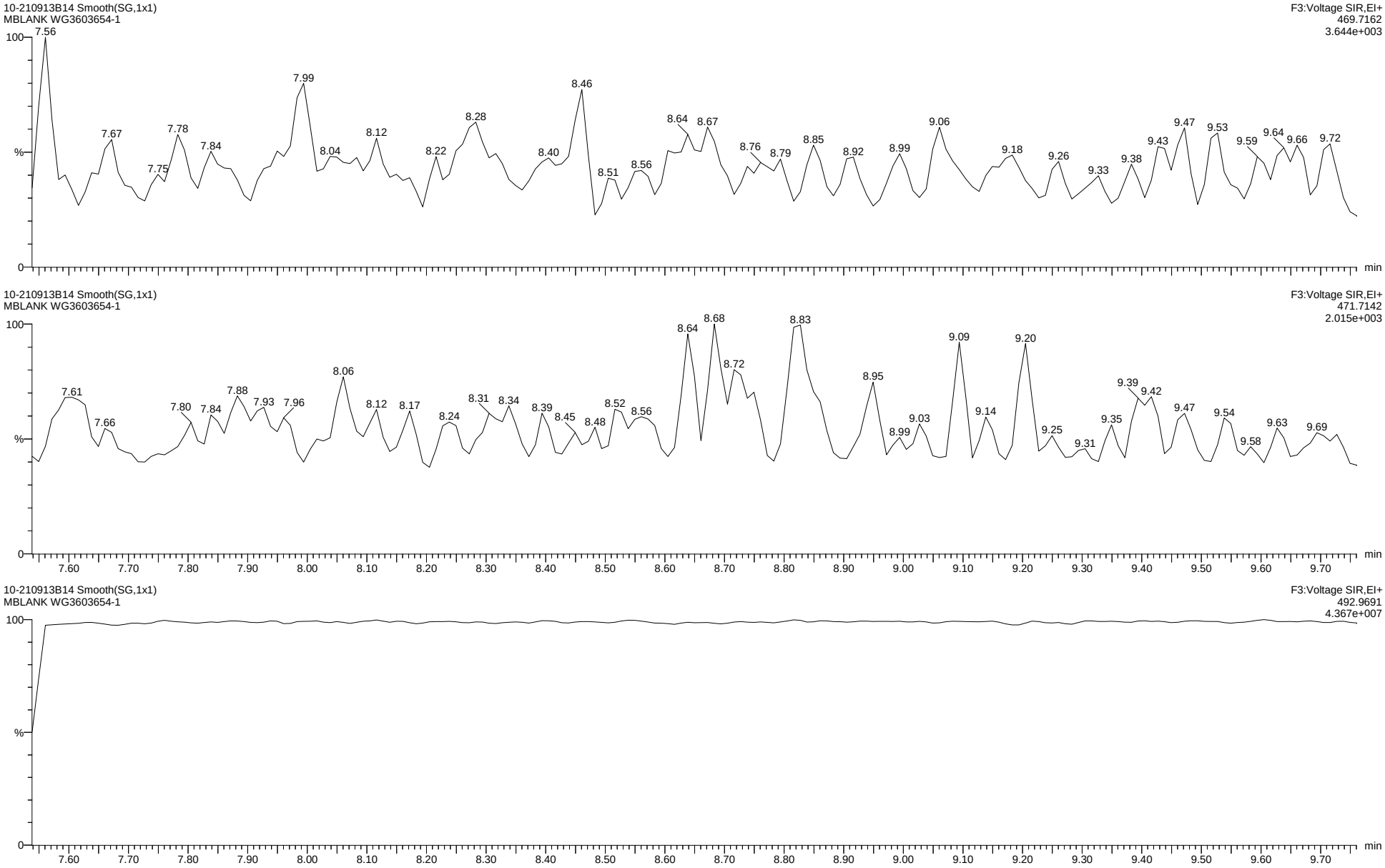

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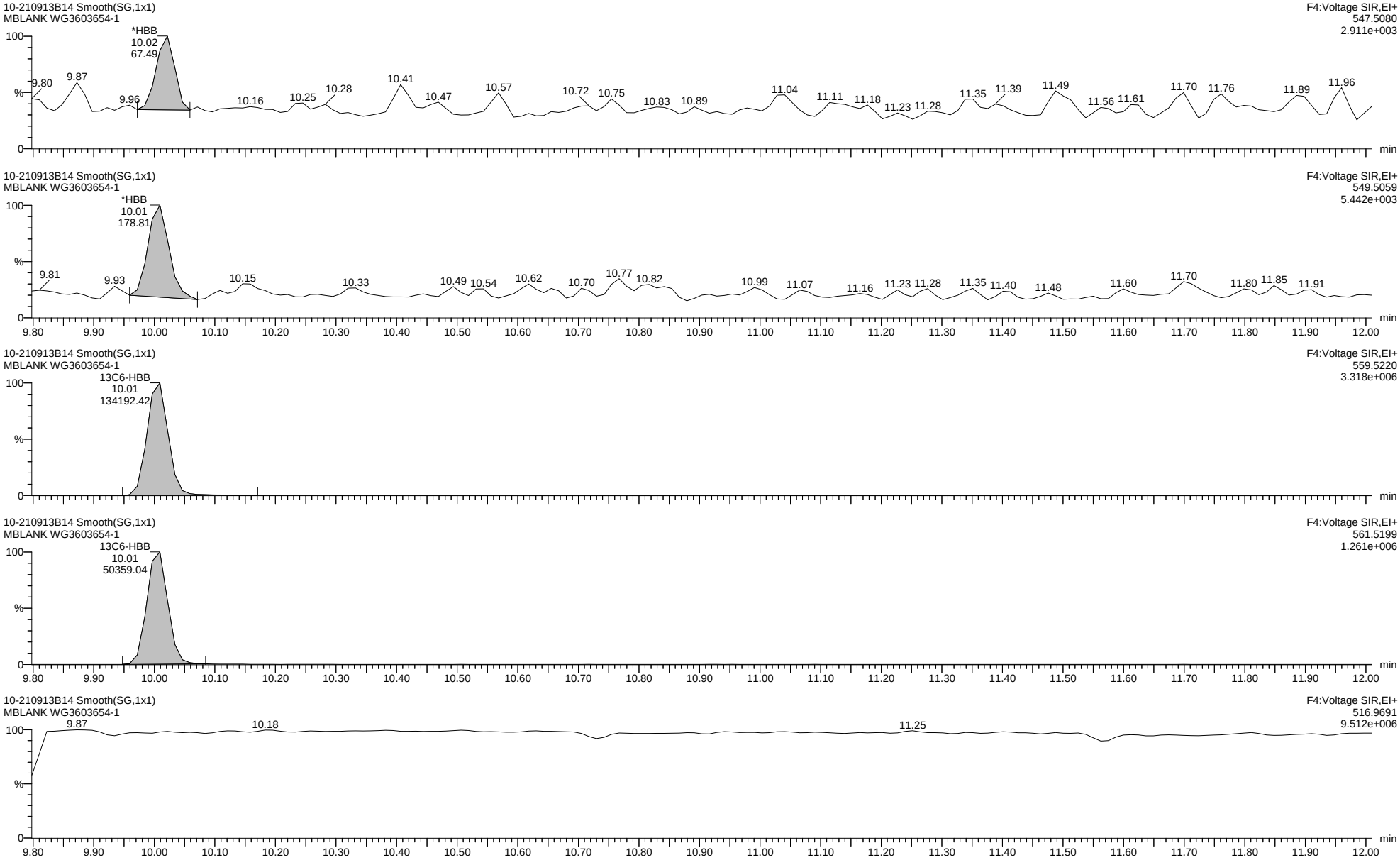

Dataset: I:\Organics Instrument\HIGHRES GCMS Completed Results Files\HR-10\2021\2109\10-210913B-Q1-PBDE.qld

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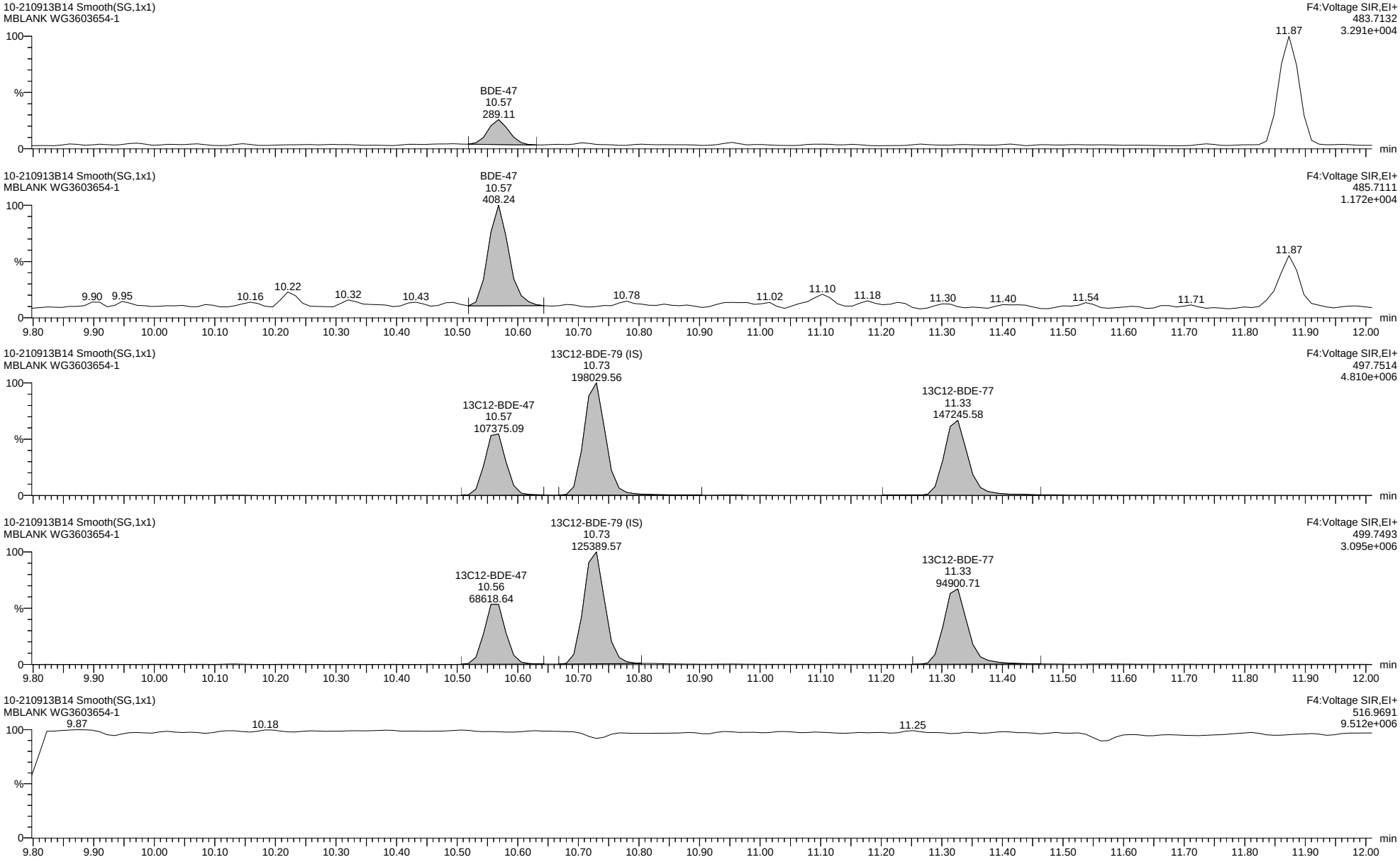

Quantify Sample Template Report **MassLynx MassLynx V4.1 SCN 901**

Dataset: I:\Organics Instrument\HIGHRES GCMS Completed Results Files\HR-10\2021\2109\10-210913B-Q1-PBDE.qld

Last Altered: Thursday, September 16, 2021 14:59:12 Eastern Daylight Time
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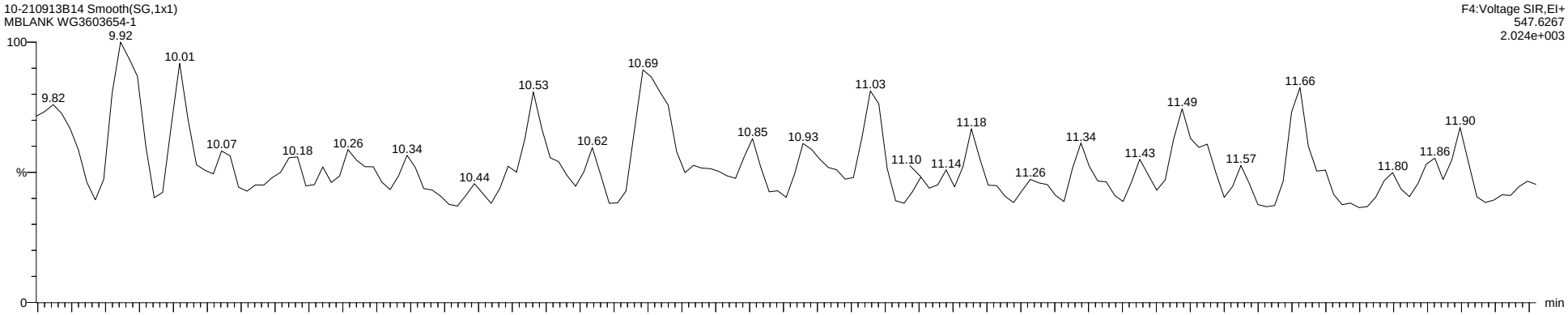

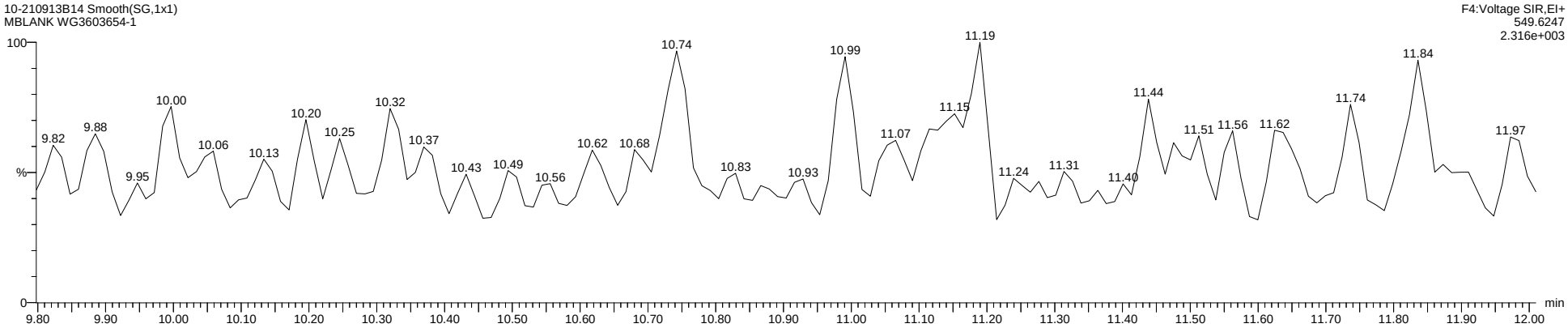

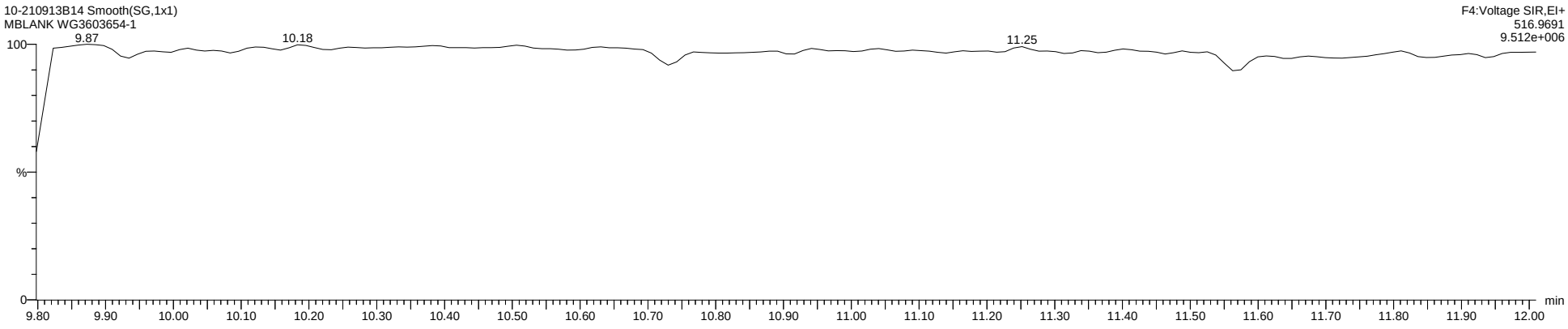

Quantify Sample Template Report **MassLynx MassLynx V4.1 SCN 901**

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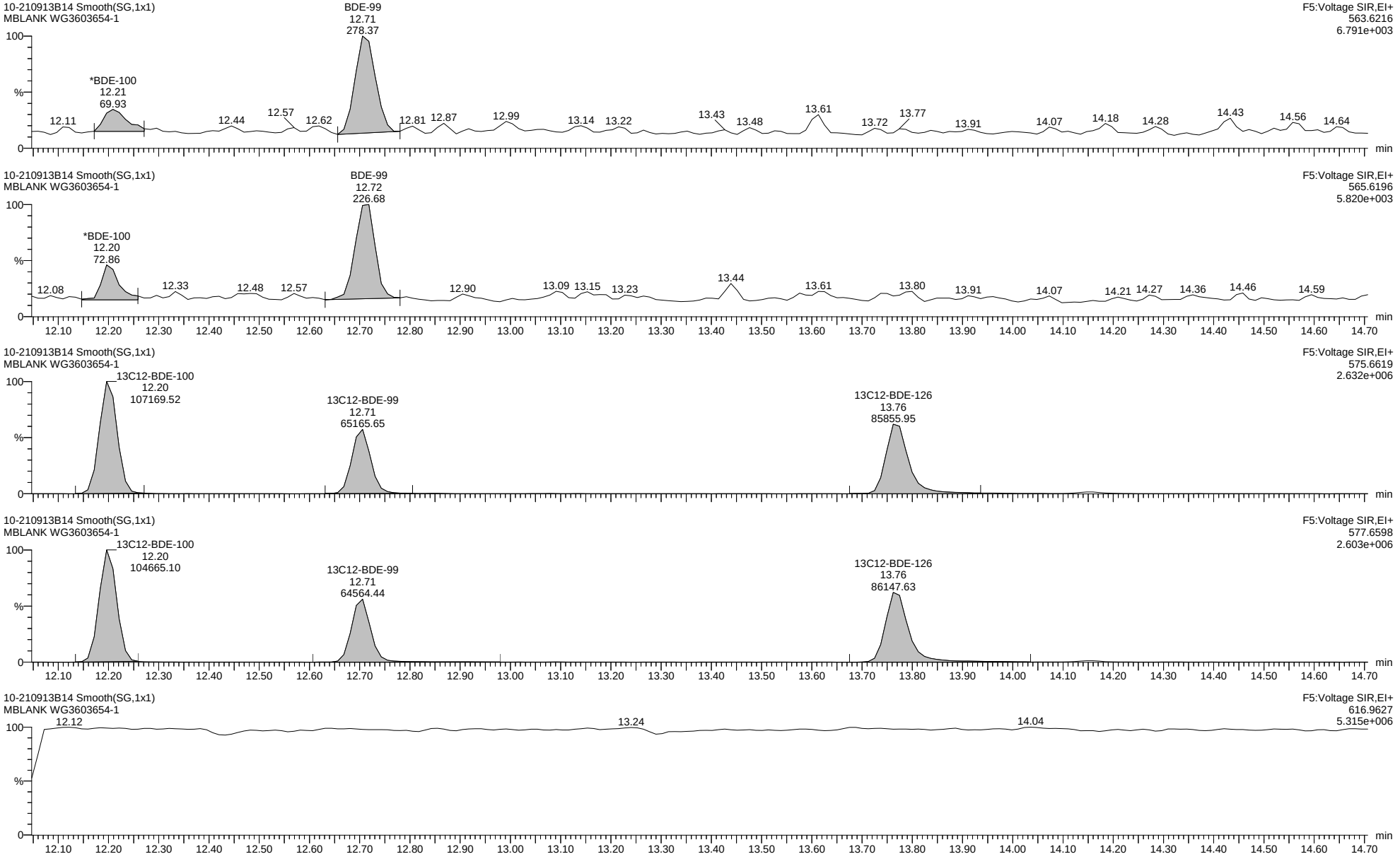

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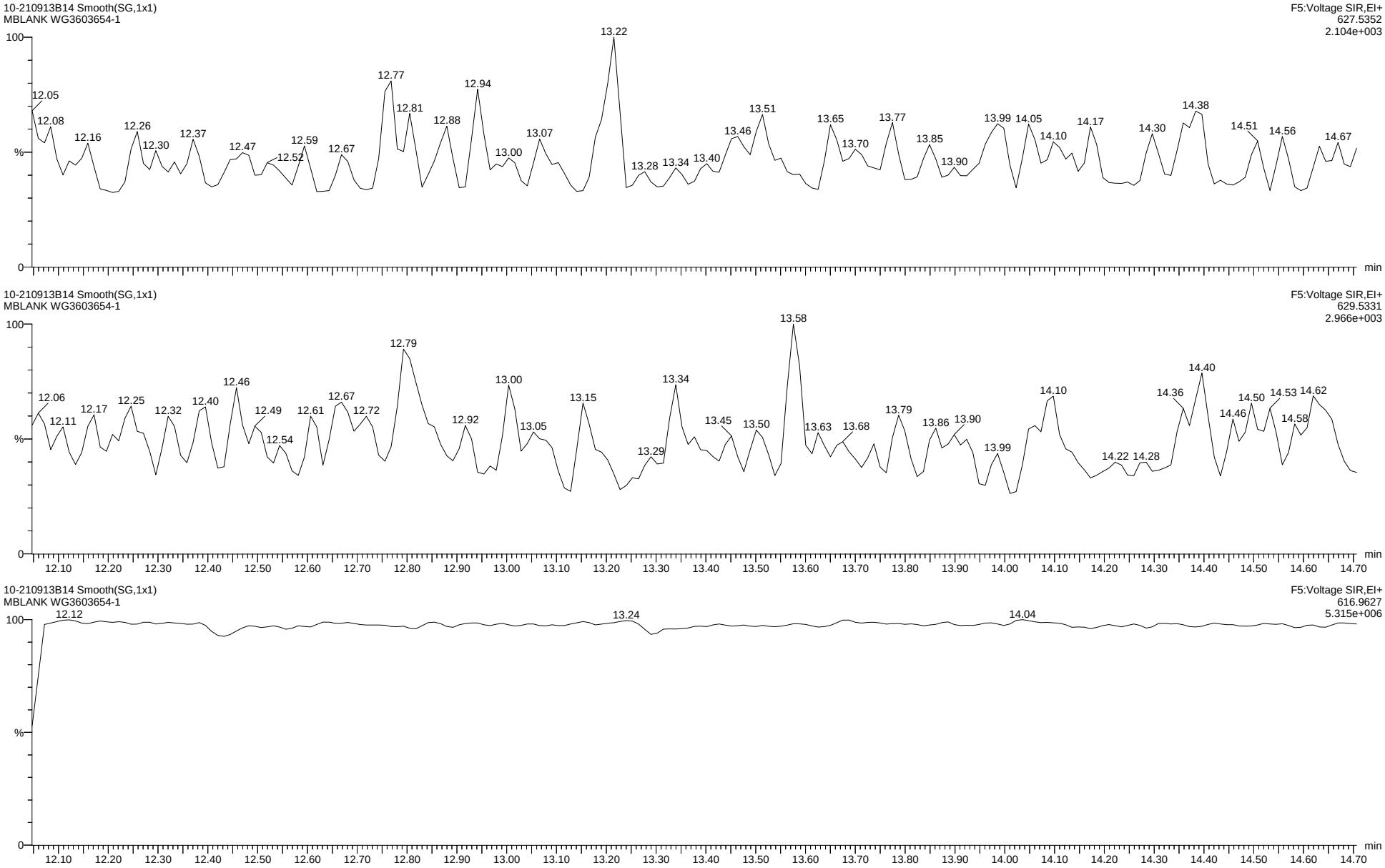

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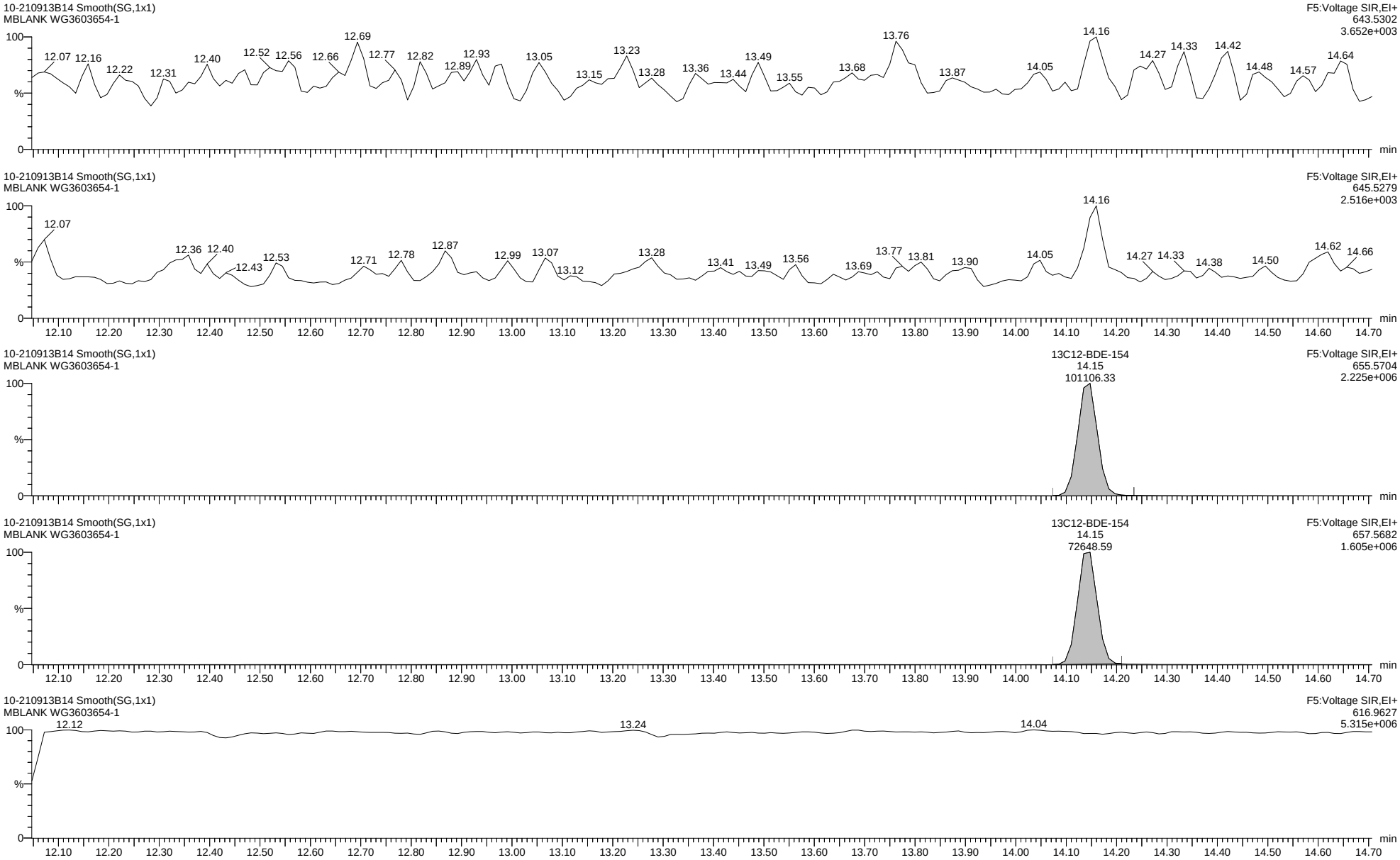

Quantify Sample Template Report **MassLynx MassLynx V4.1 SCN 901**

Dataset: I:\Organics Instrument\HIGHRES GCMS Completed Results Files\HR-10\2021\2109\10-210913B-Q1-PBDE.qld

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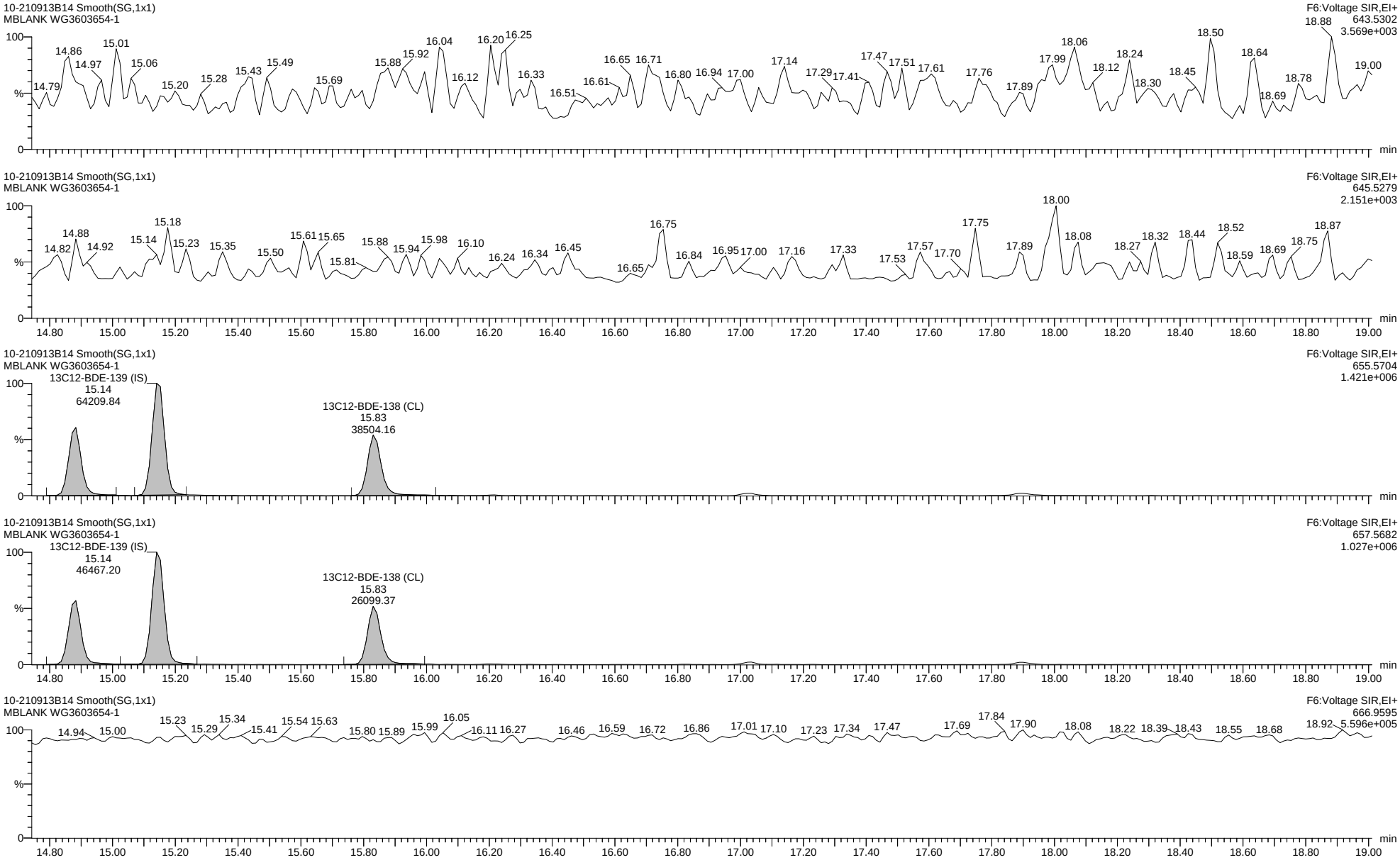

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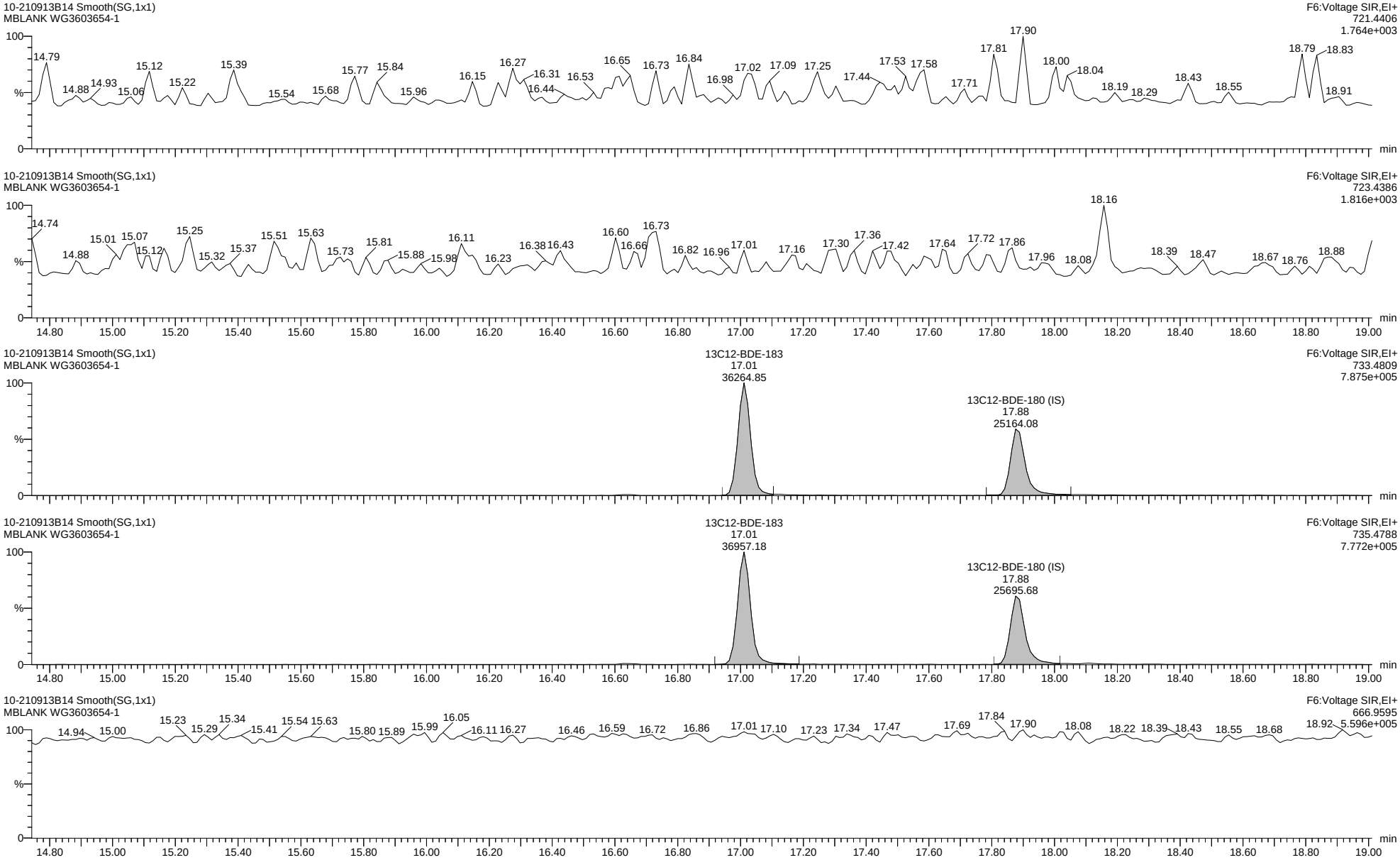

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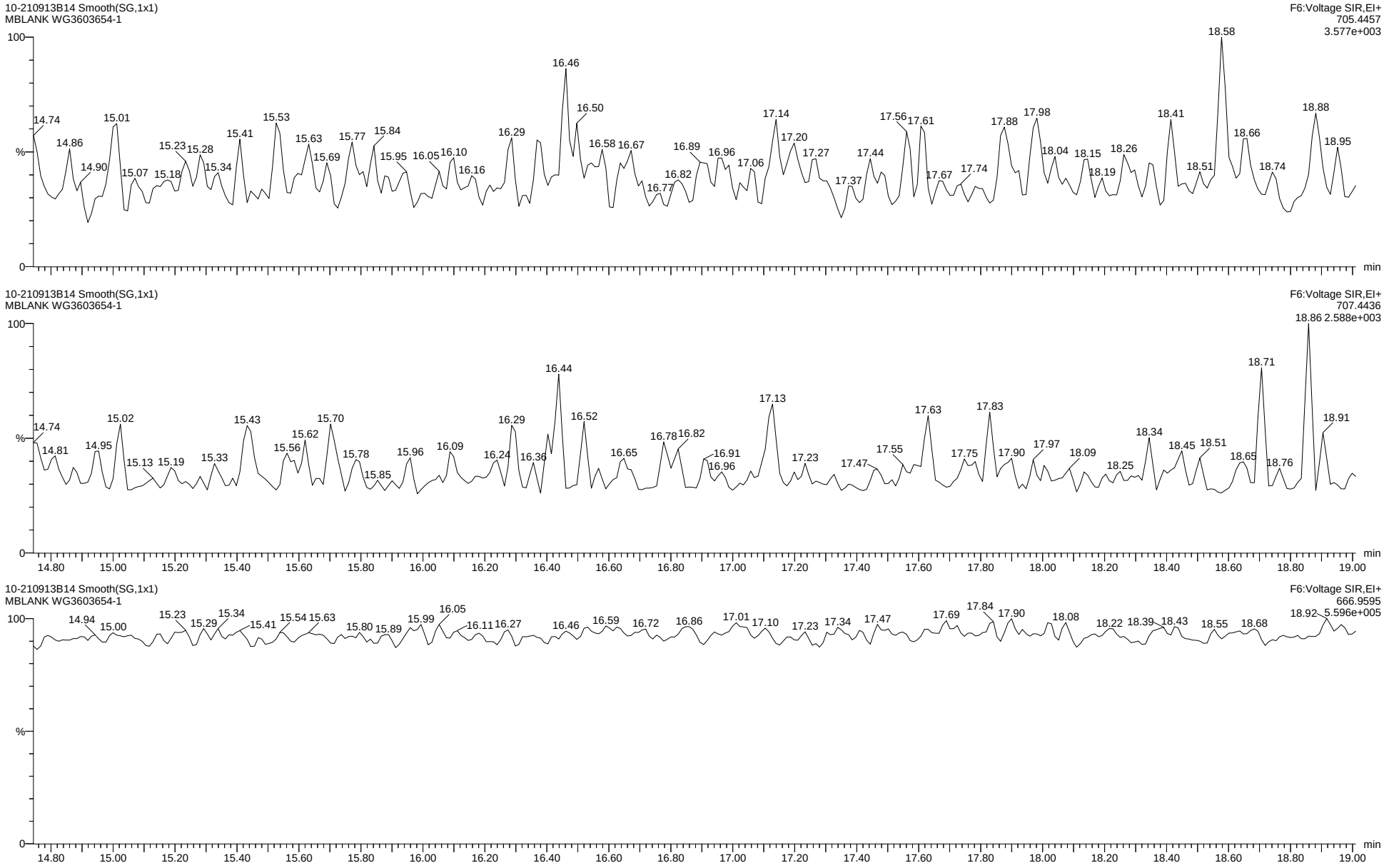

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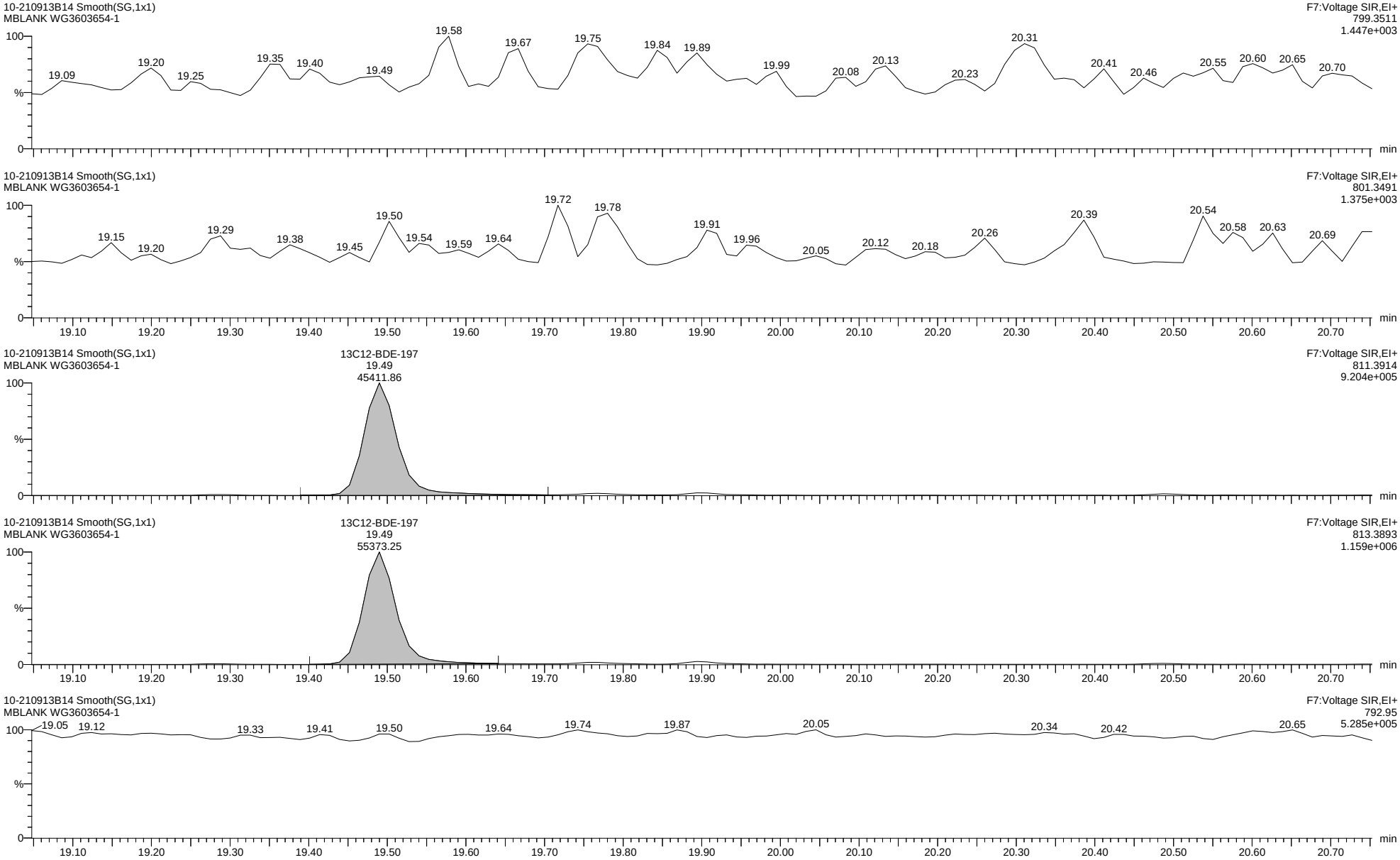

Quantify Sample Template Report **MassLynx MassLynx V4.1 SCN 901**

Dataset: I:\Organics Instrument\HIGHRES GCMS Completed Results Files\HR-10\2021\2109\10-210913B-Q1-PBDE.qld

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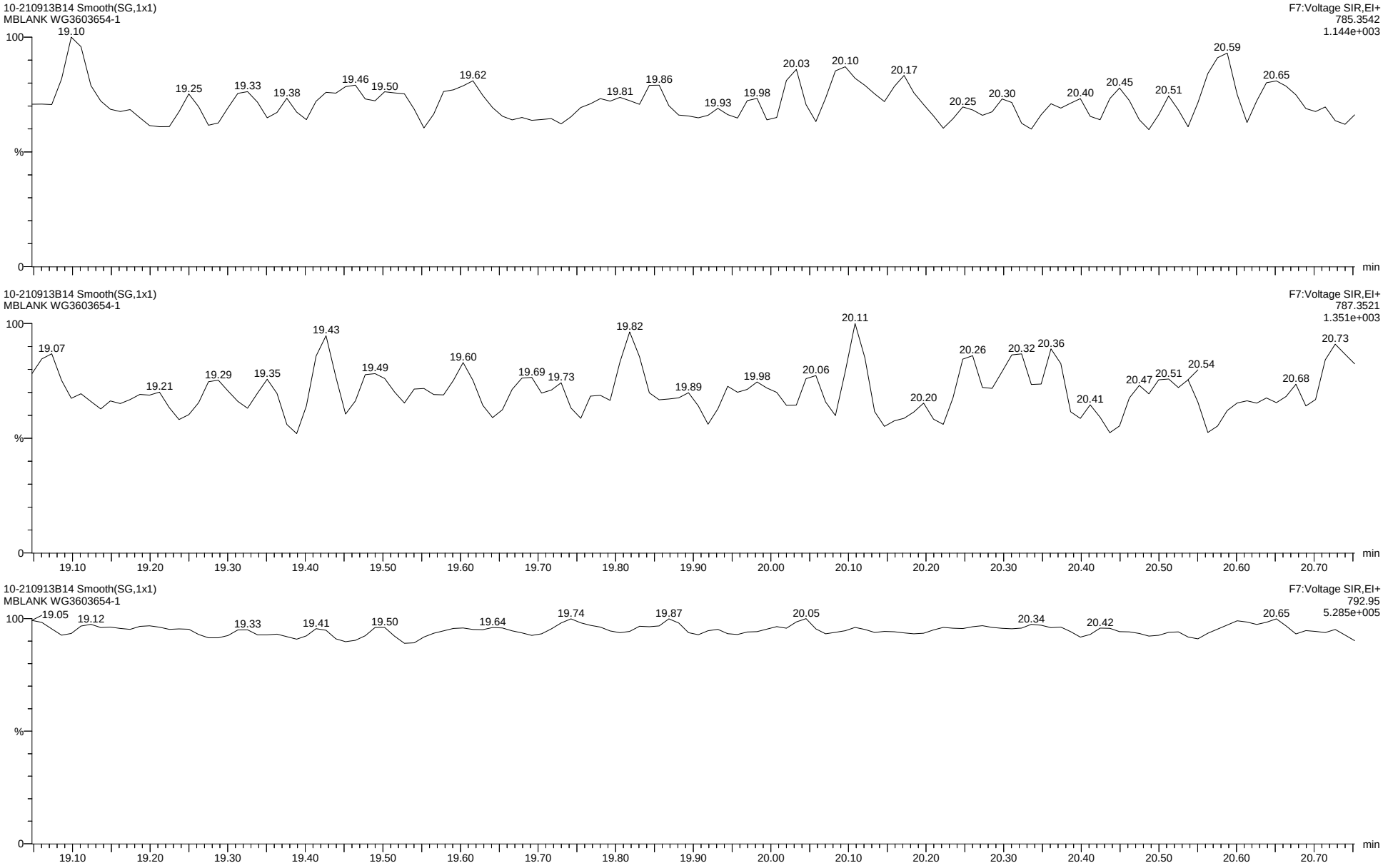

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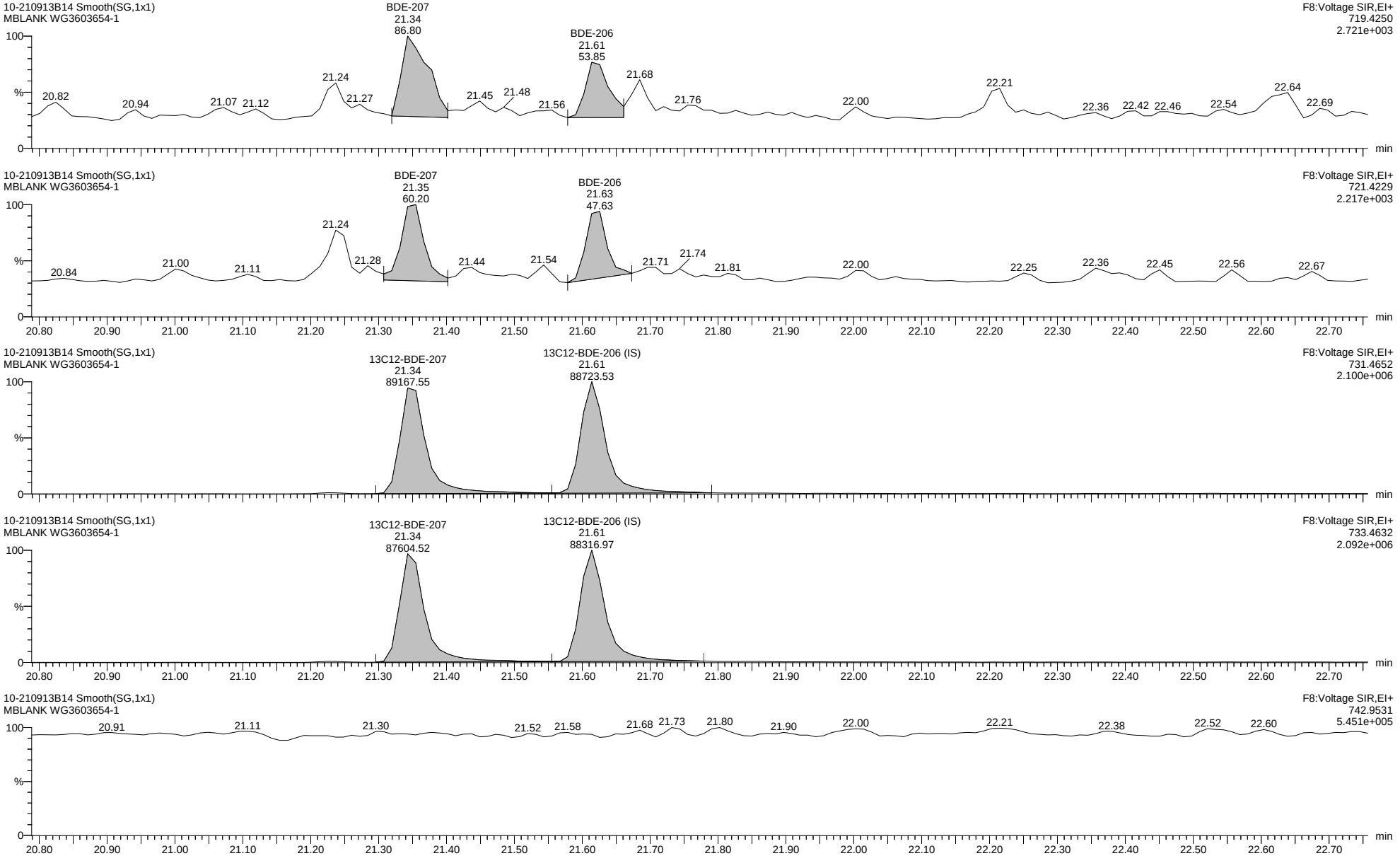

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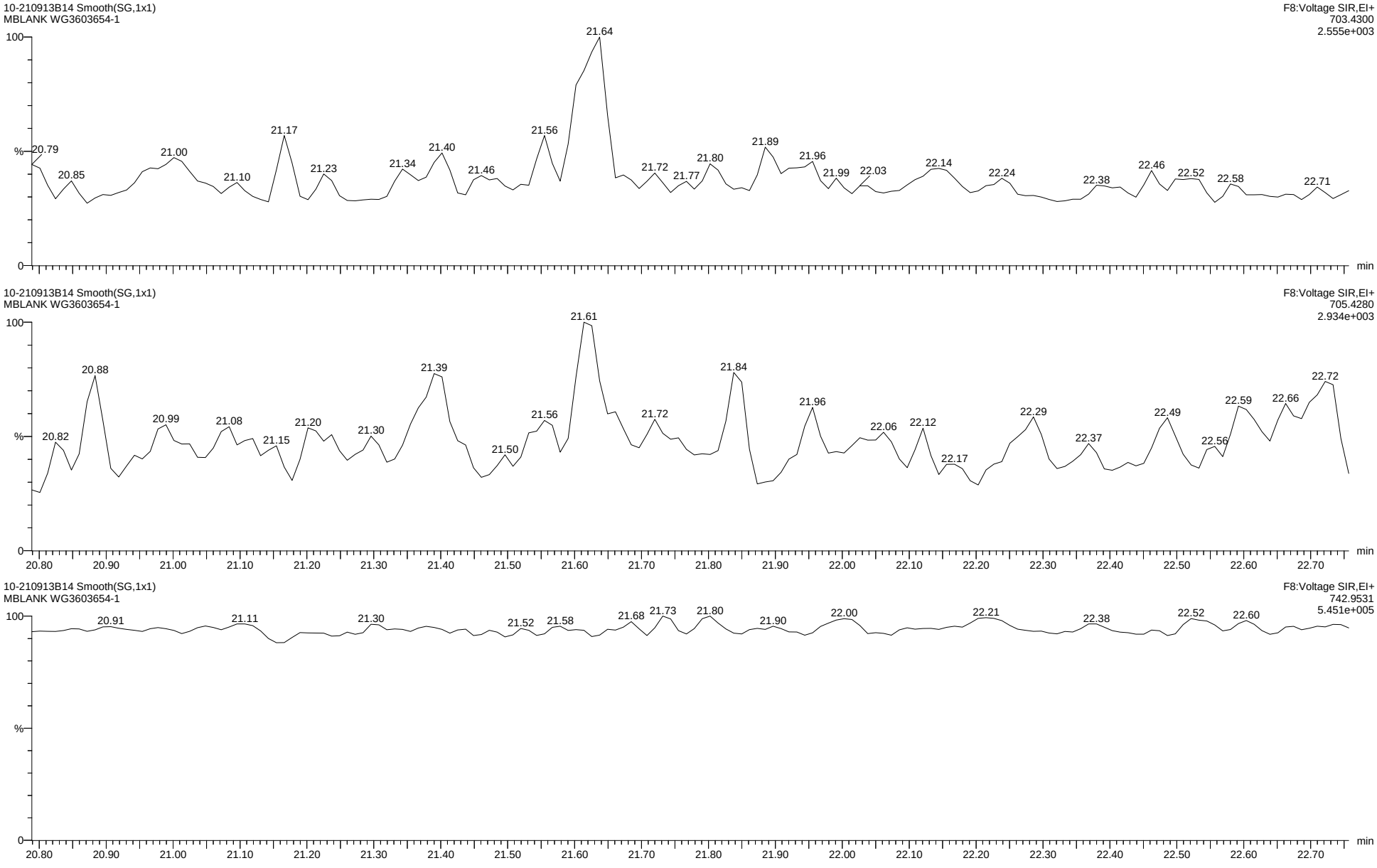

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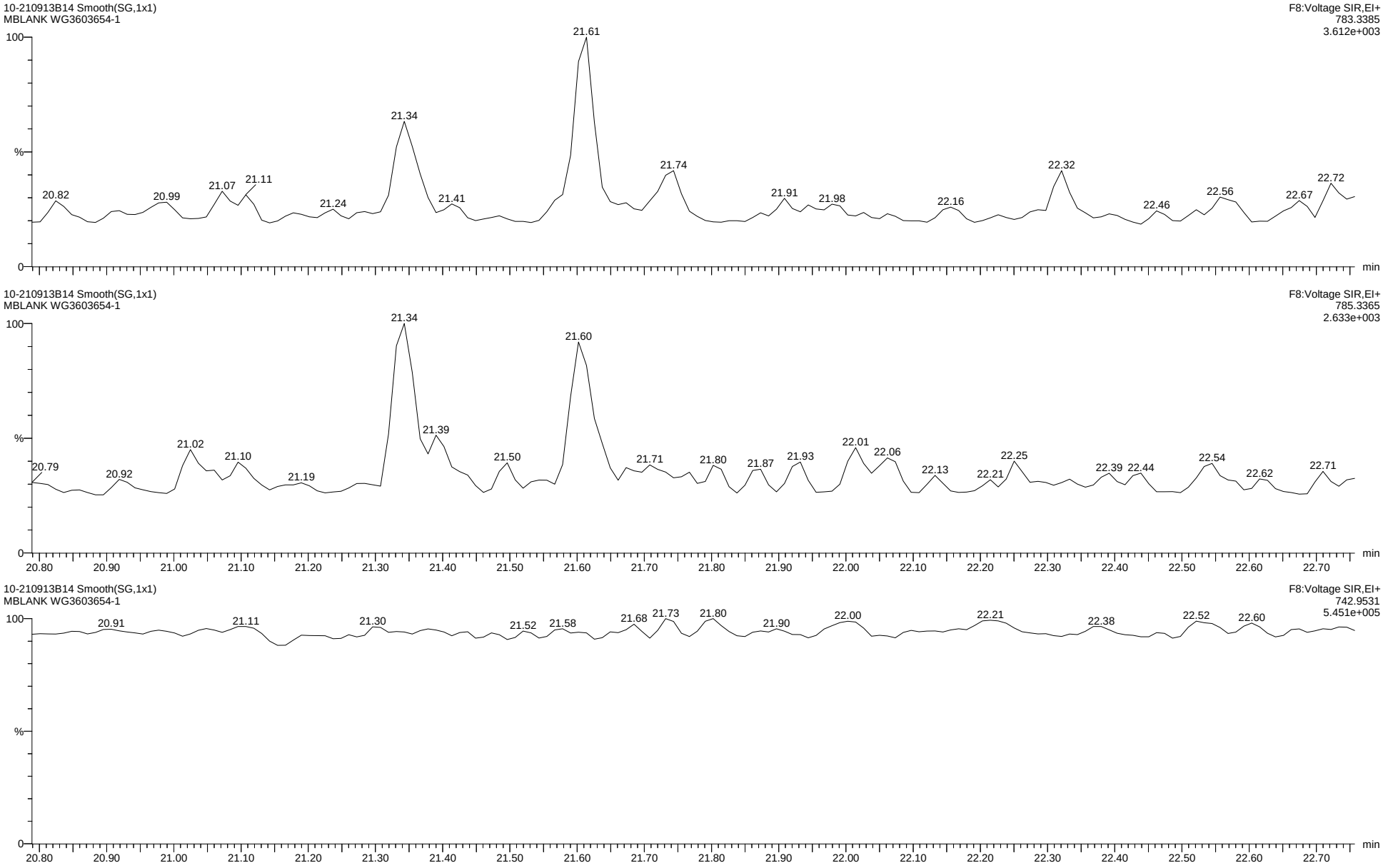

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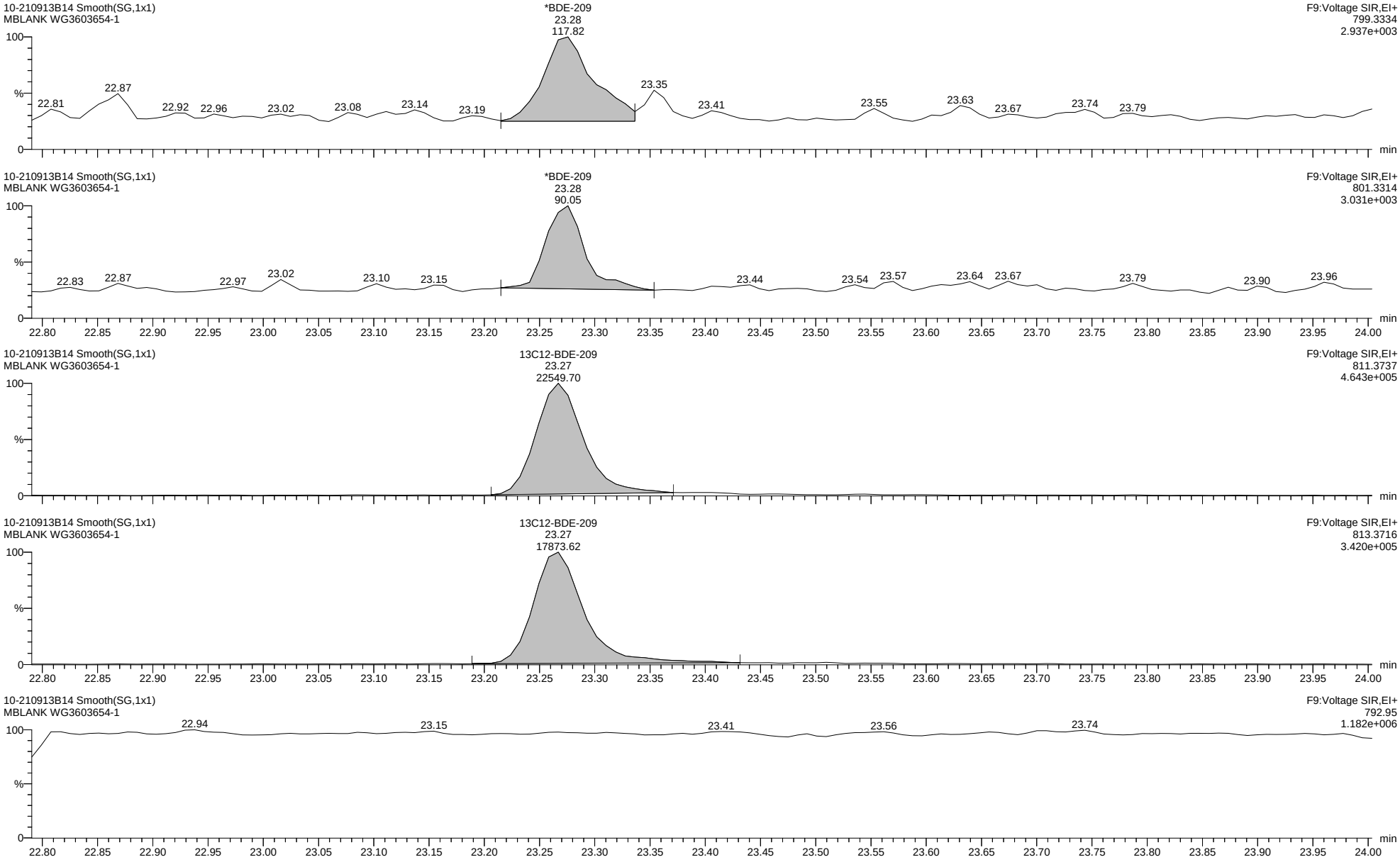

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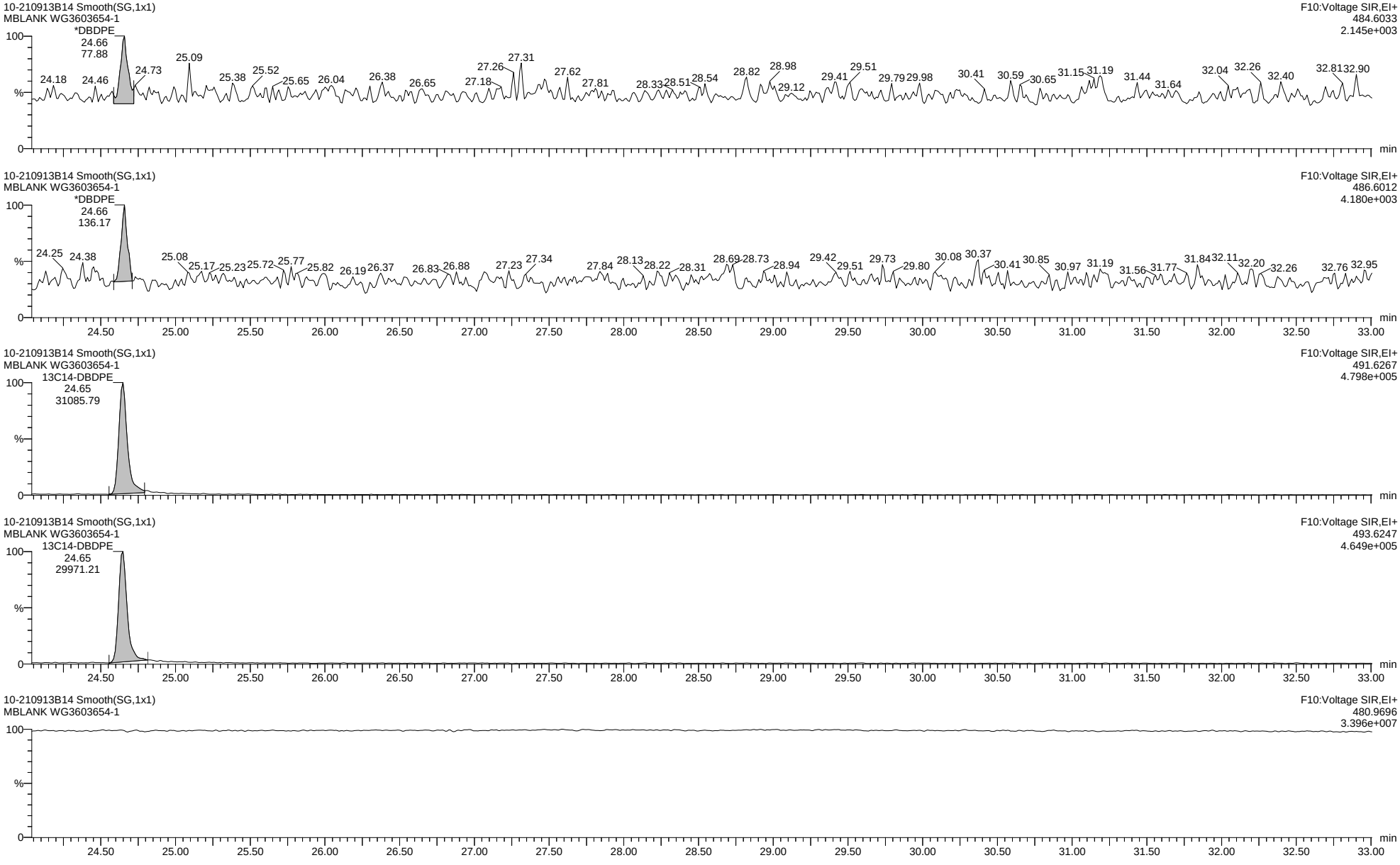

Quantify Sample Template Report **MassLynx MassLynx V4.1 SCN 901**

Dataset: I:\Organics Instrument\HIGHRES GCMS Completed Results Files\HR-10\2021\2109\10-210913B-Q1-PBDE.qld

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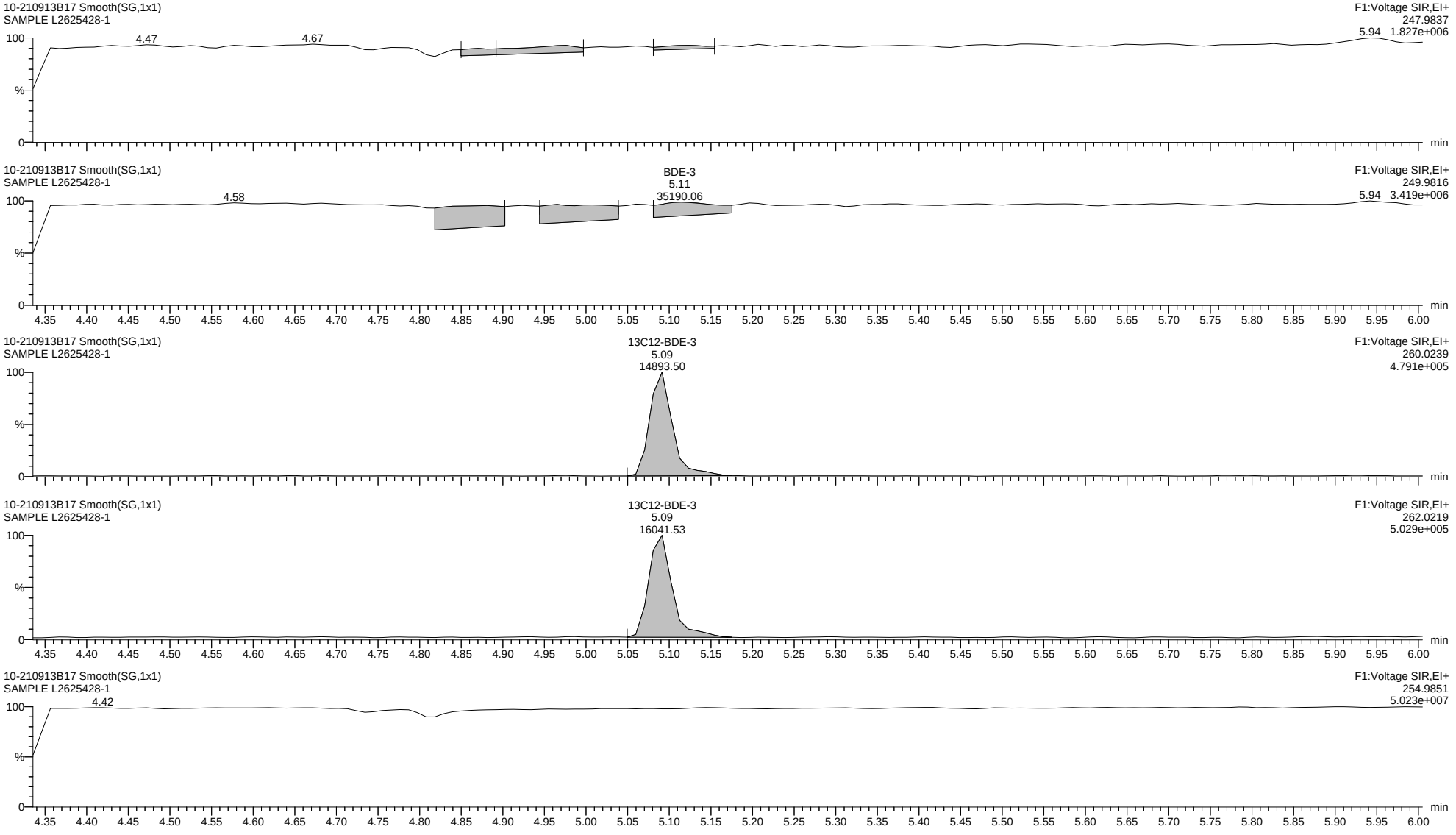

Quantify Sample Template Report **MassLynx MassLynx V4.1 SCN 901**

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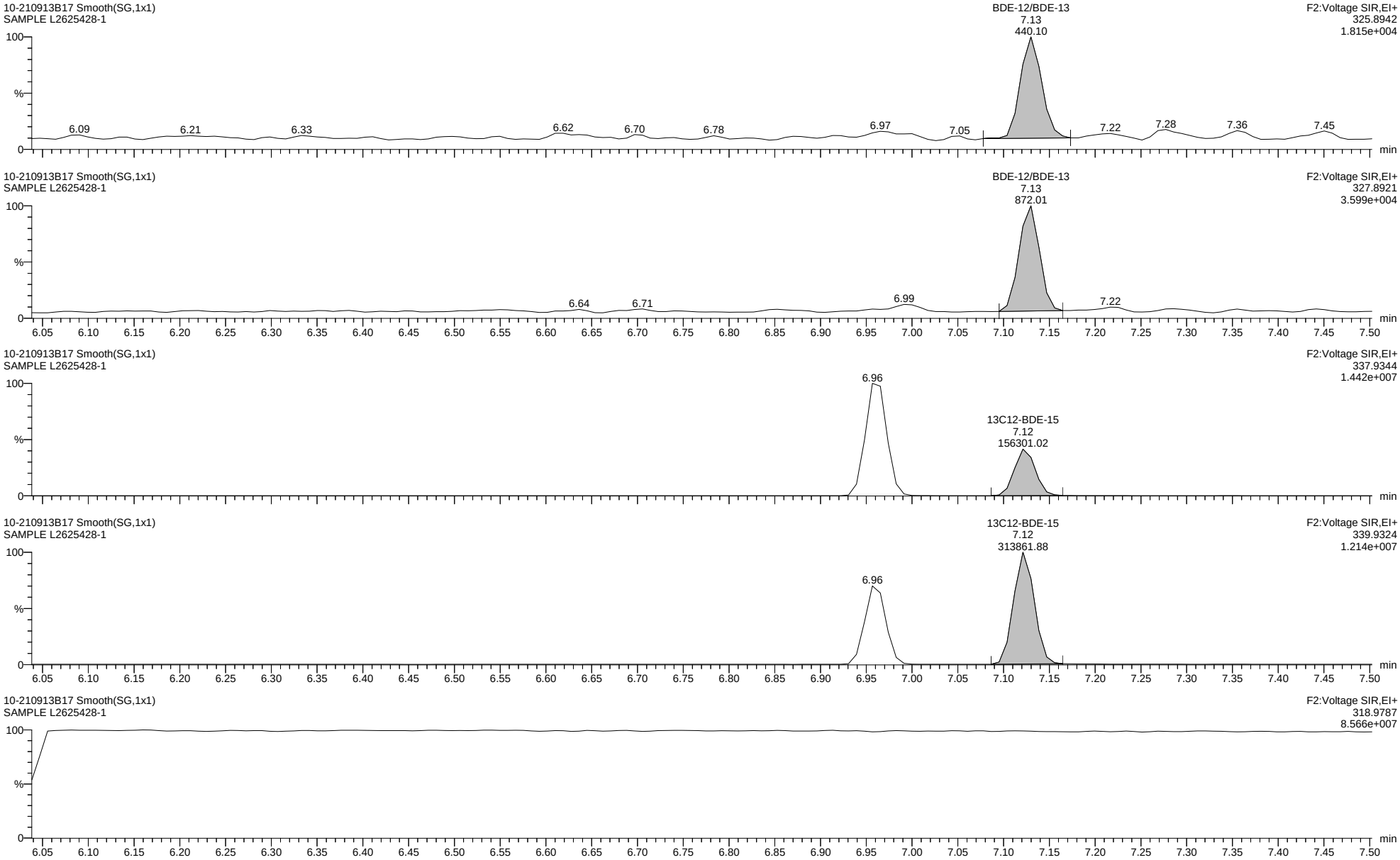

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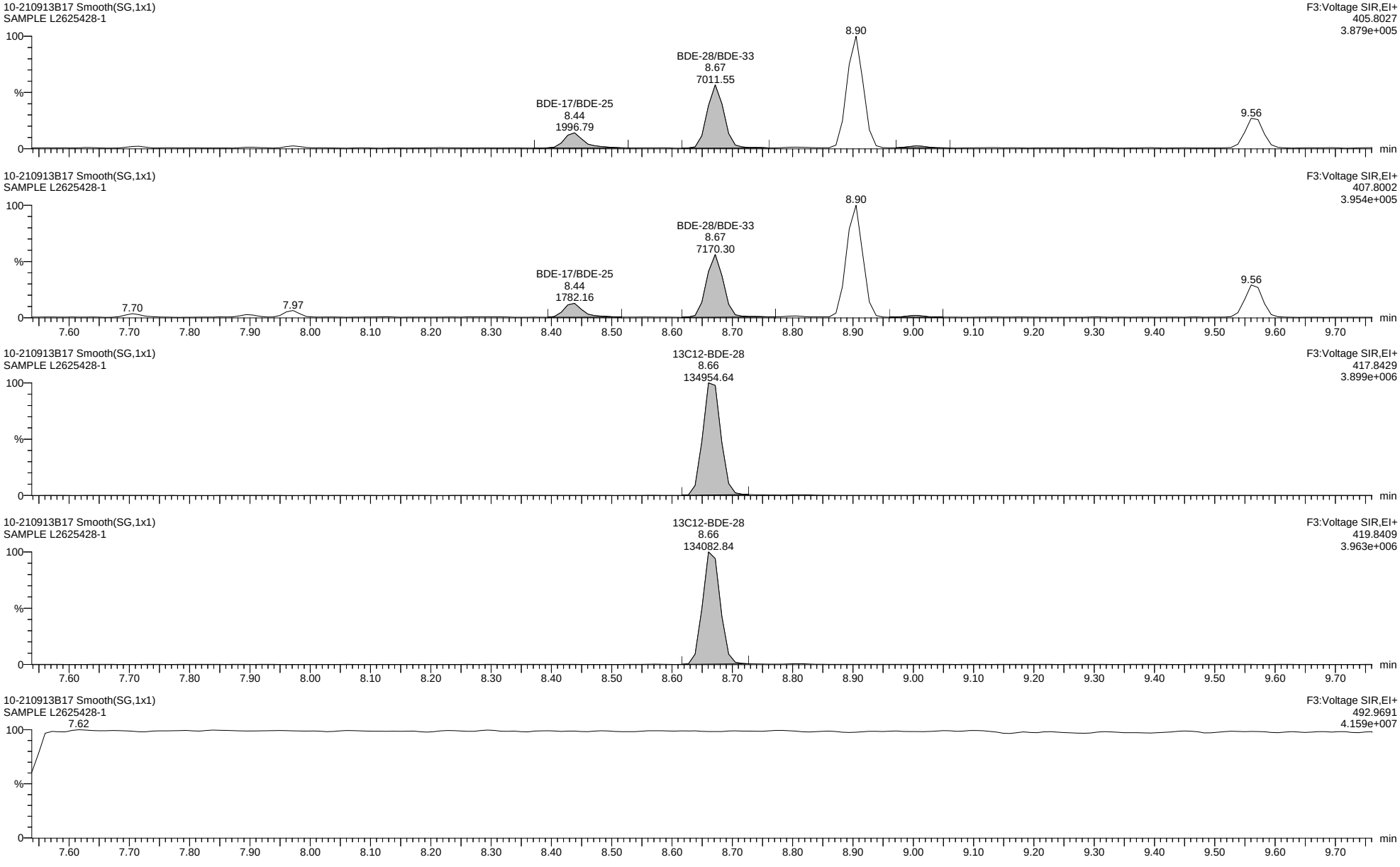

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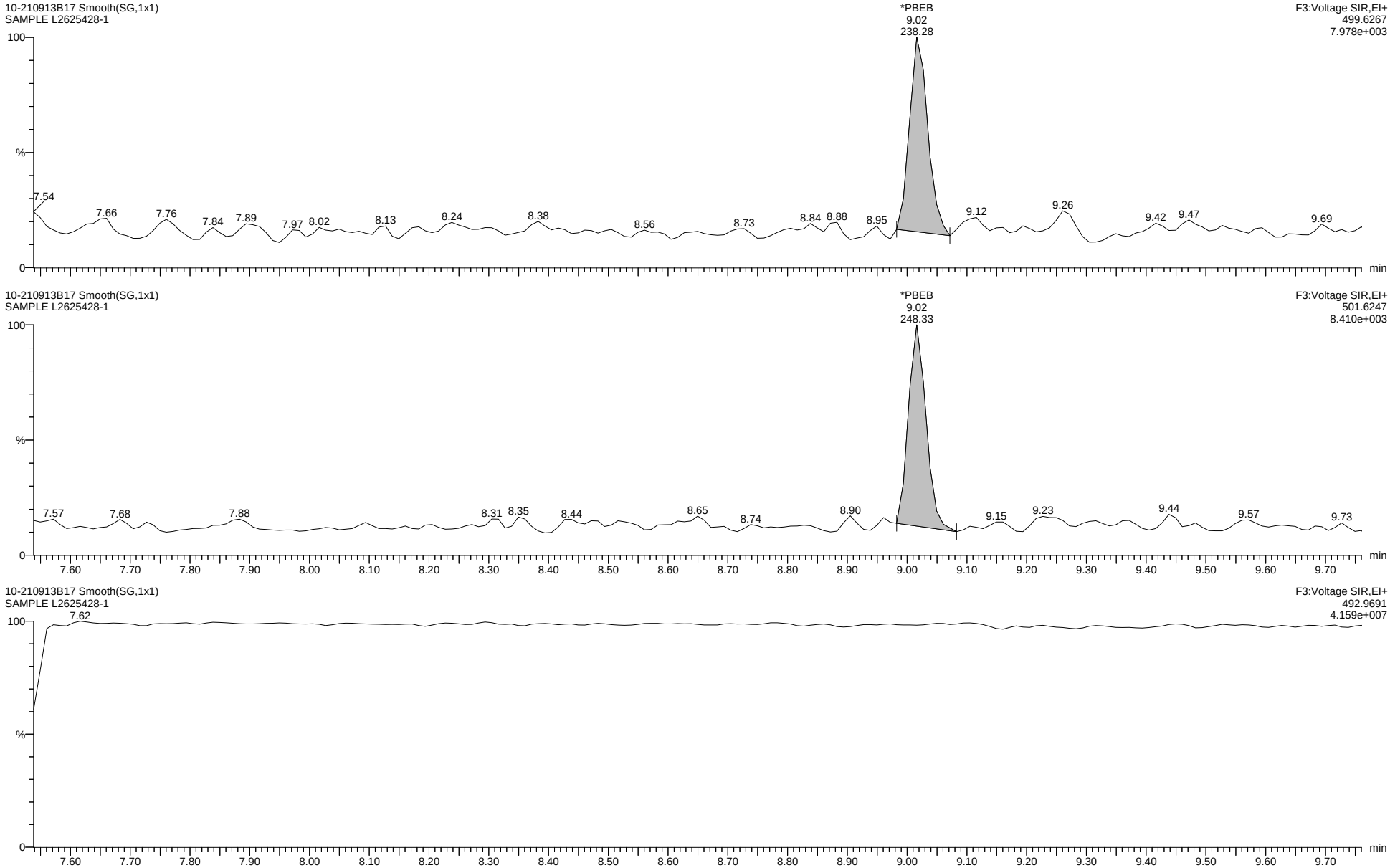

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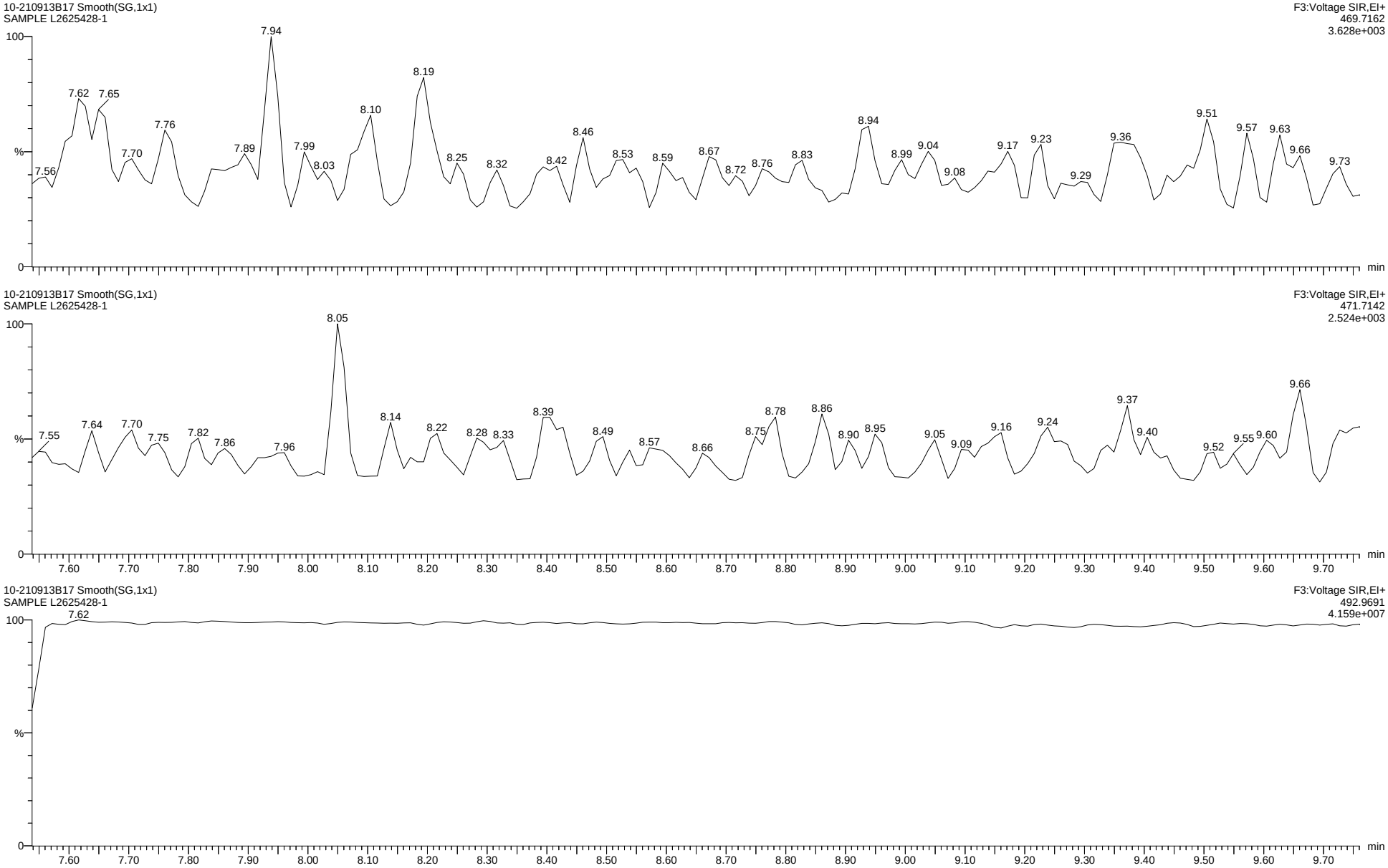

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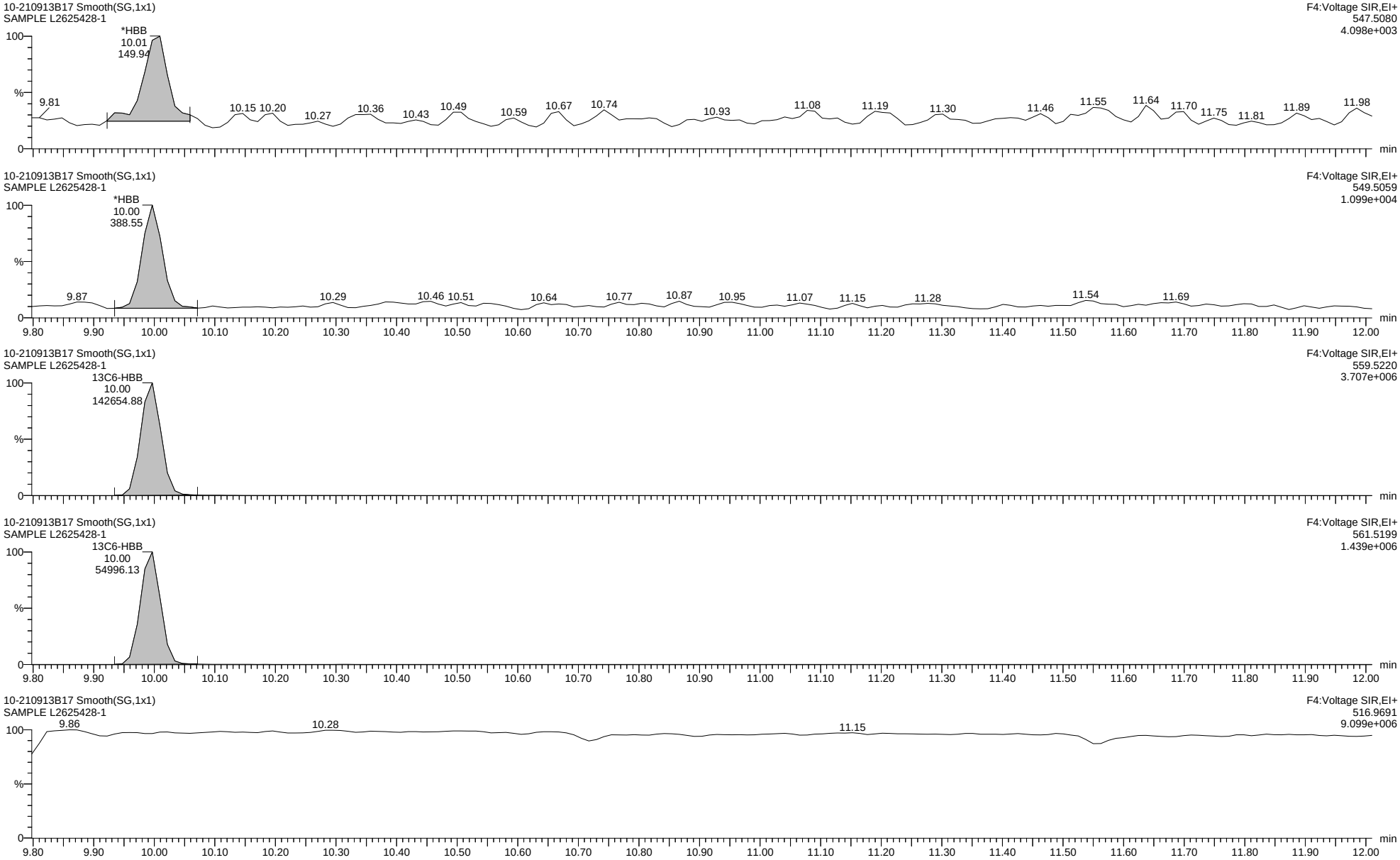

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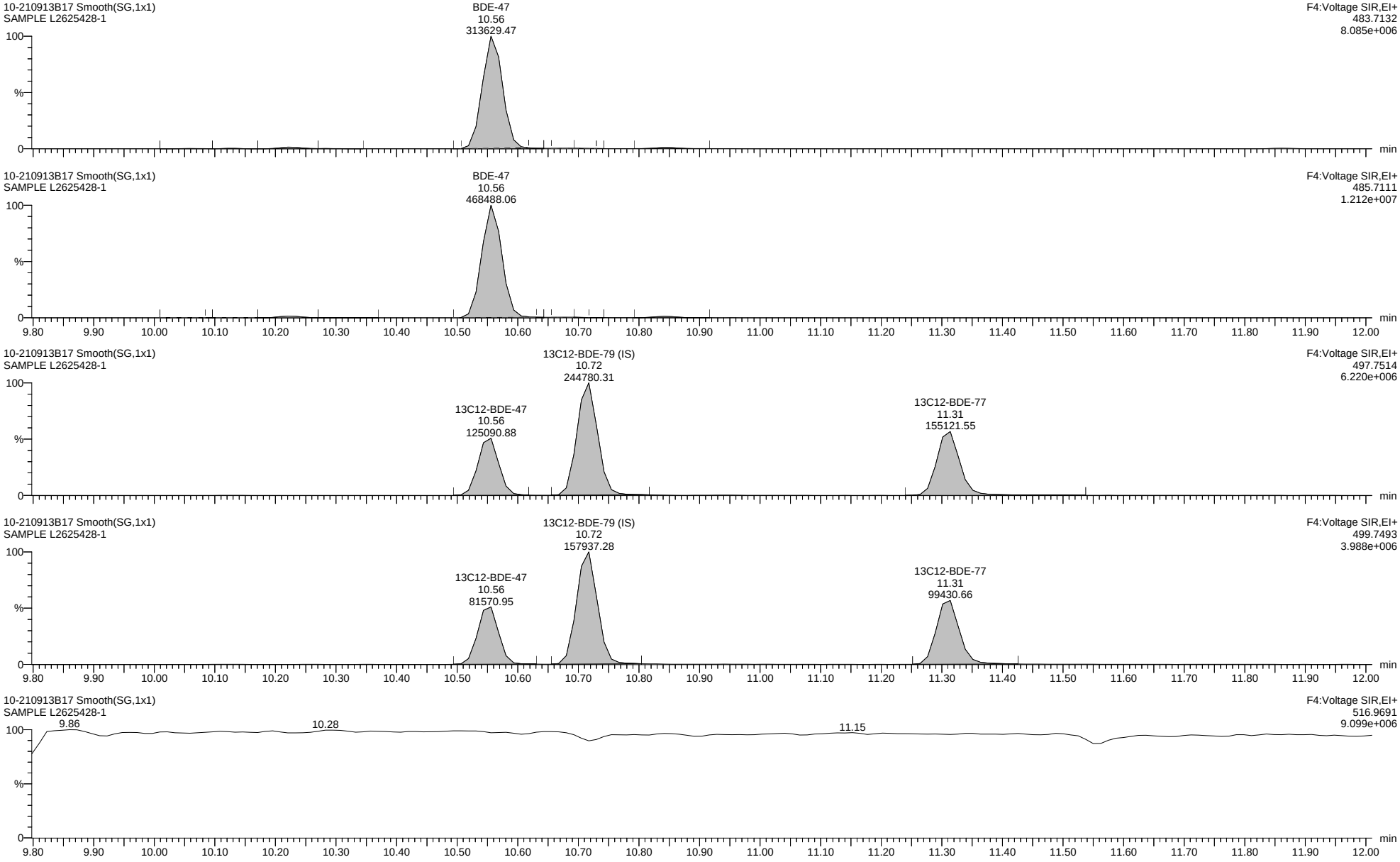

Quantify Sample Template Report **MassLynx MassLynx V4.1 SCN 901**

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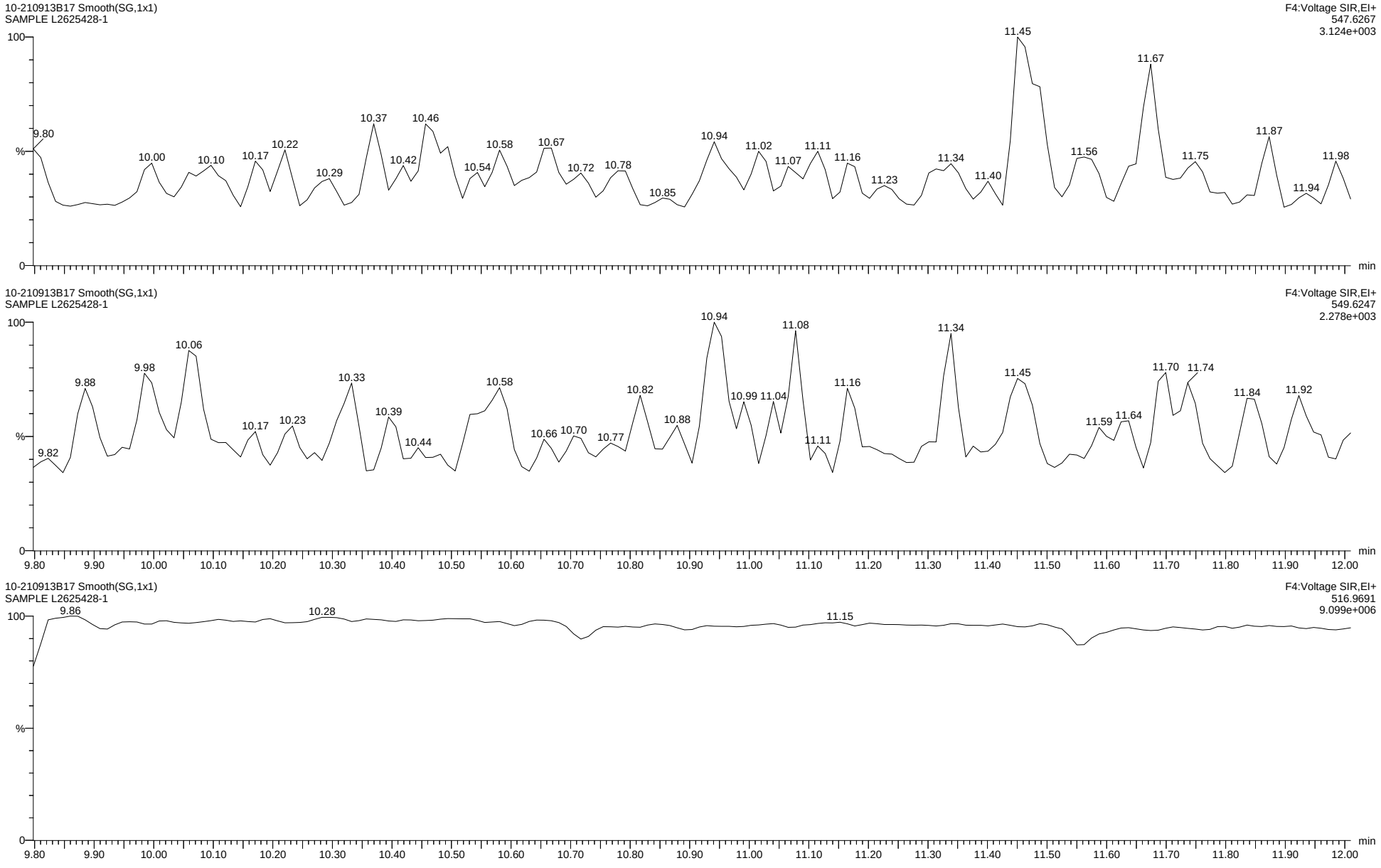

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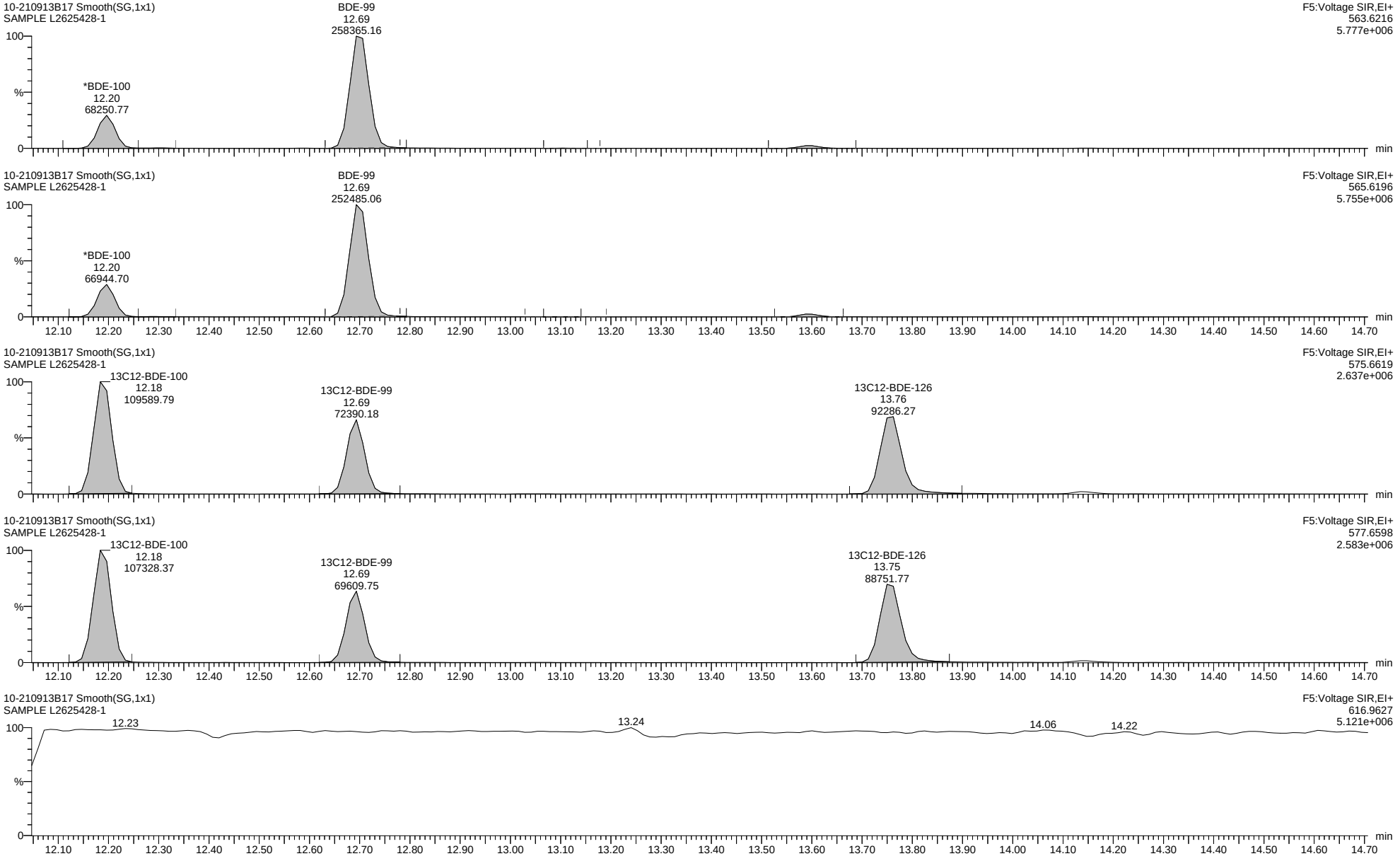

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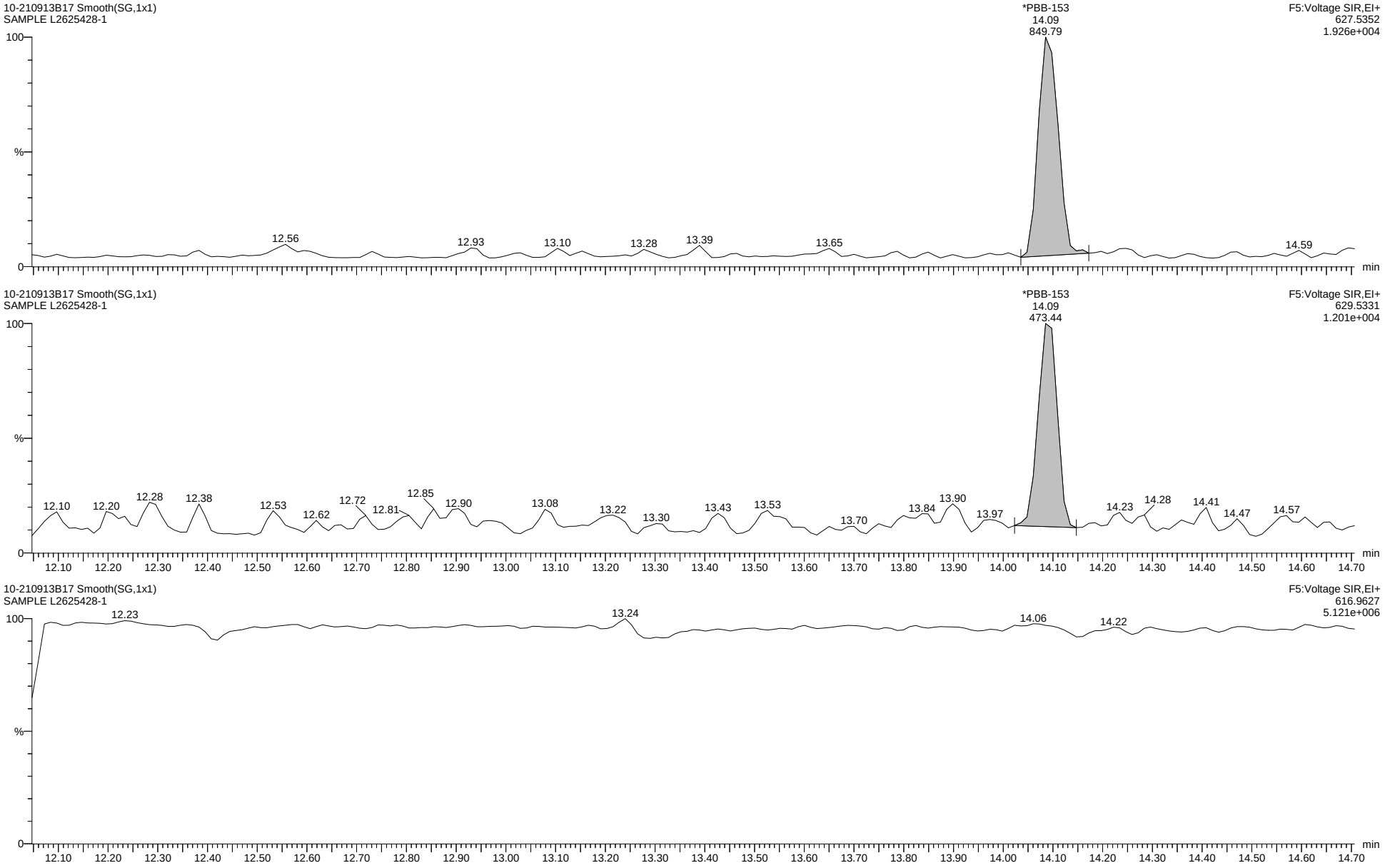

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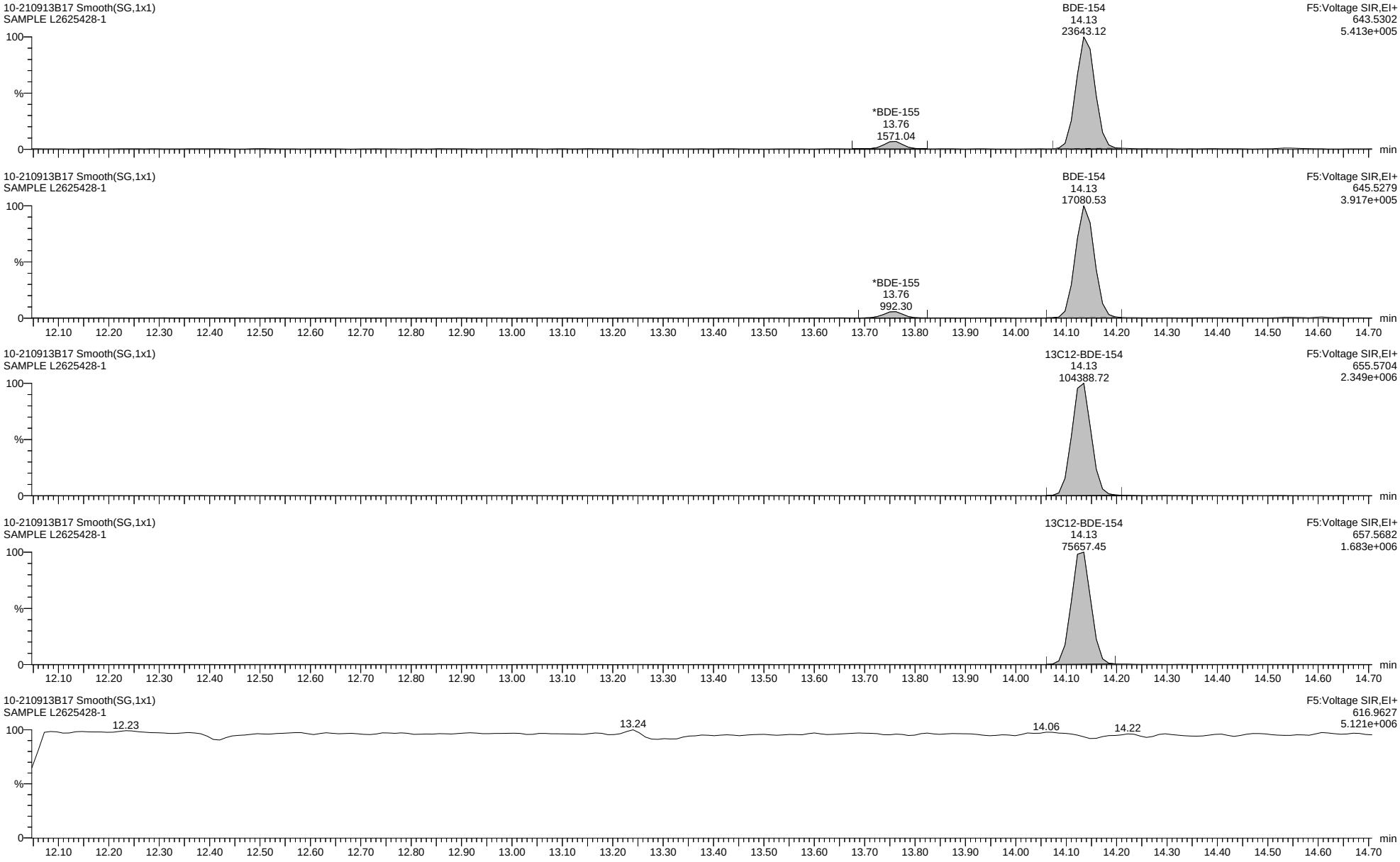

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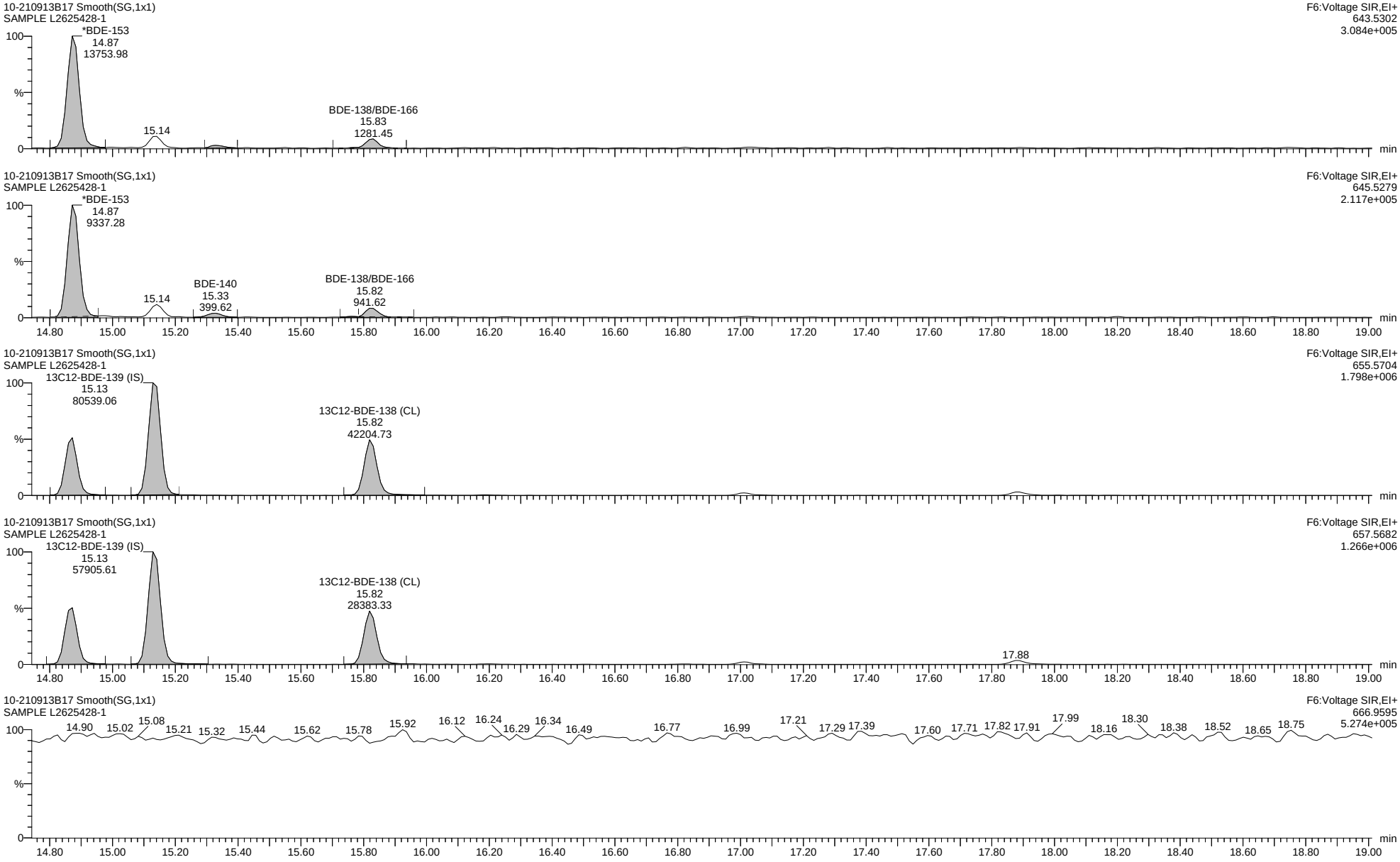

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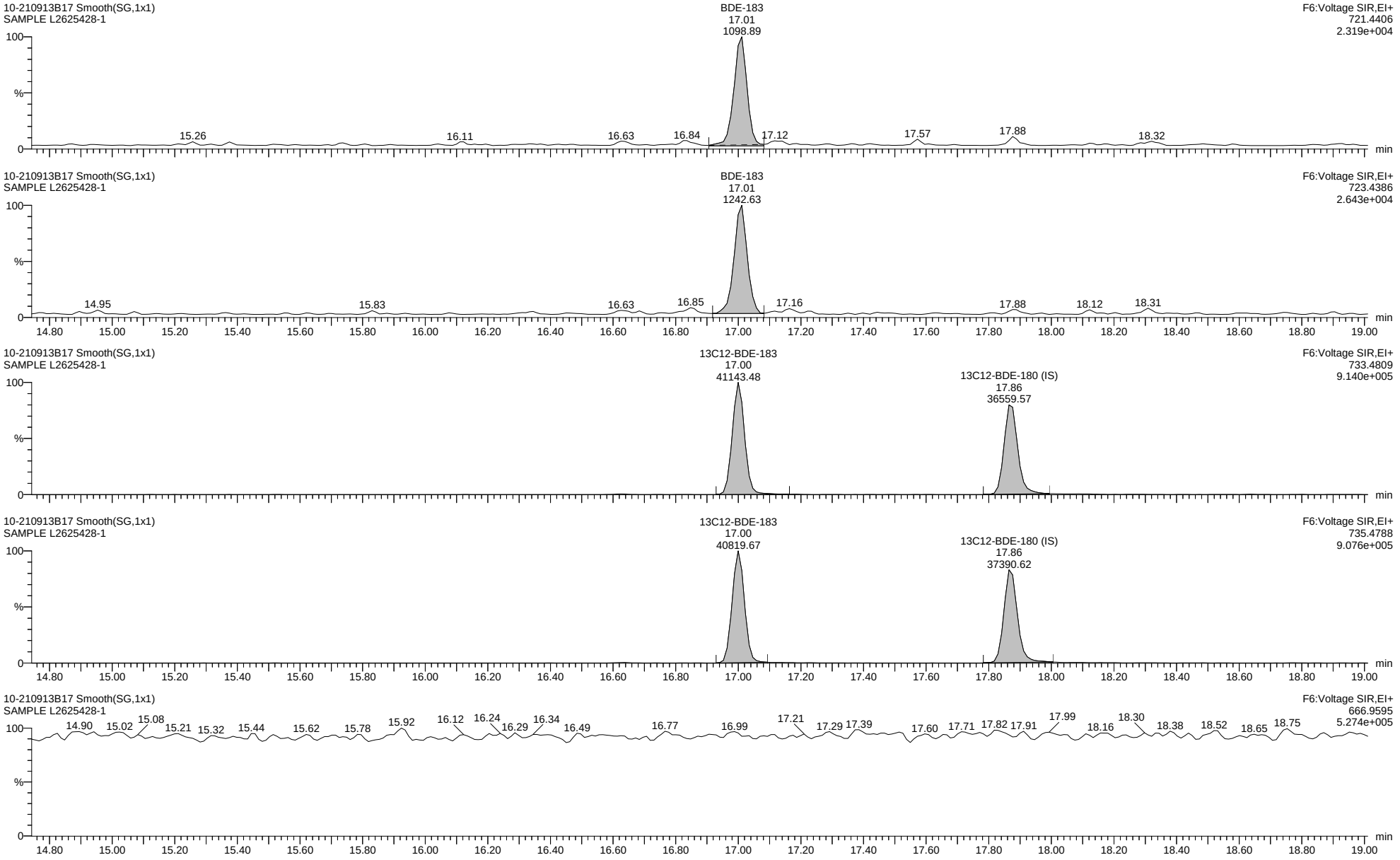

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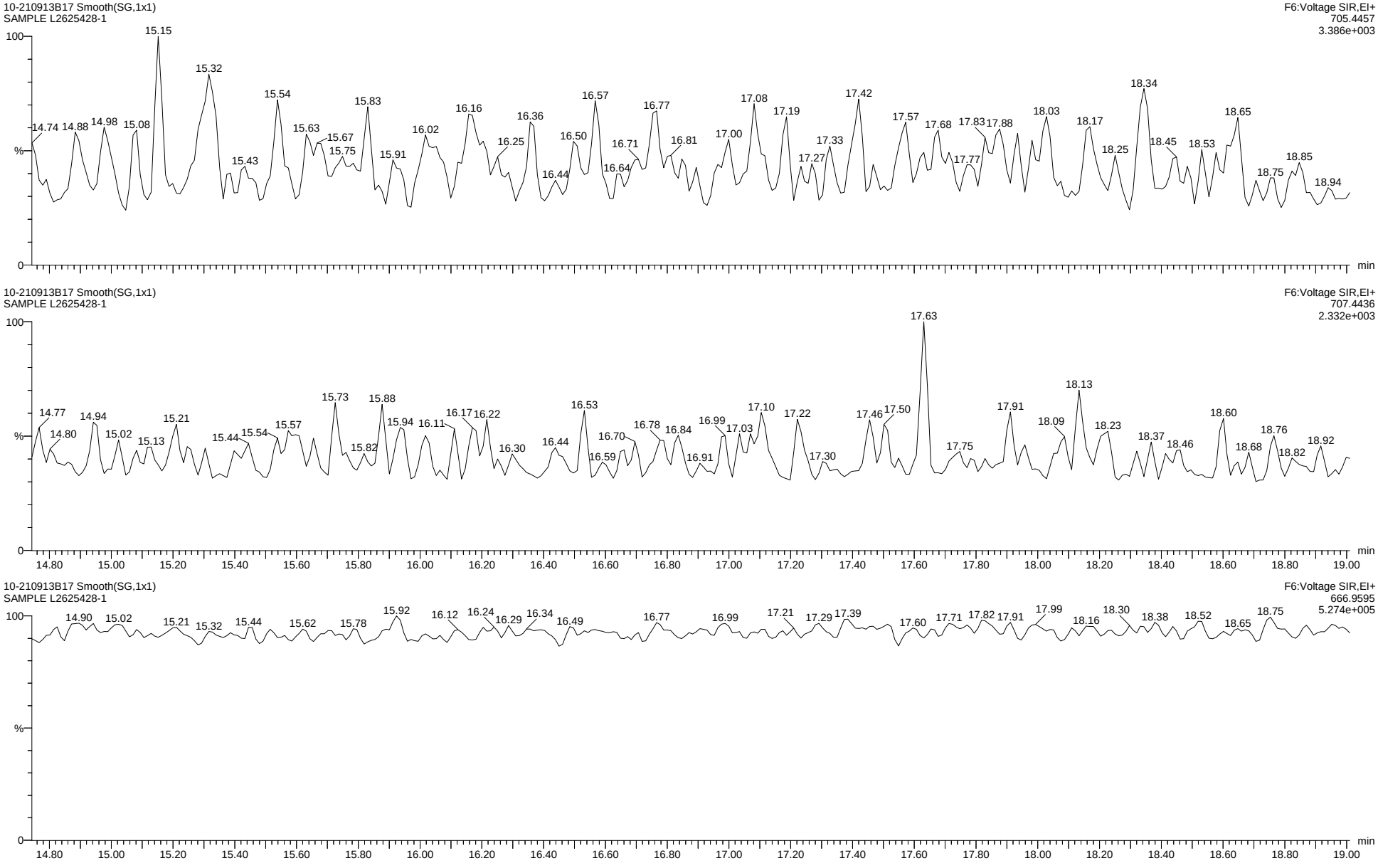

Quantify Sample Template Report **MassLynx MassLynx V4.1 SCN 901**

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Printed: Friday, September 17, 2021 12:20:40 Eastern Daylight Time

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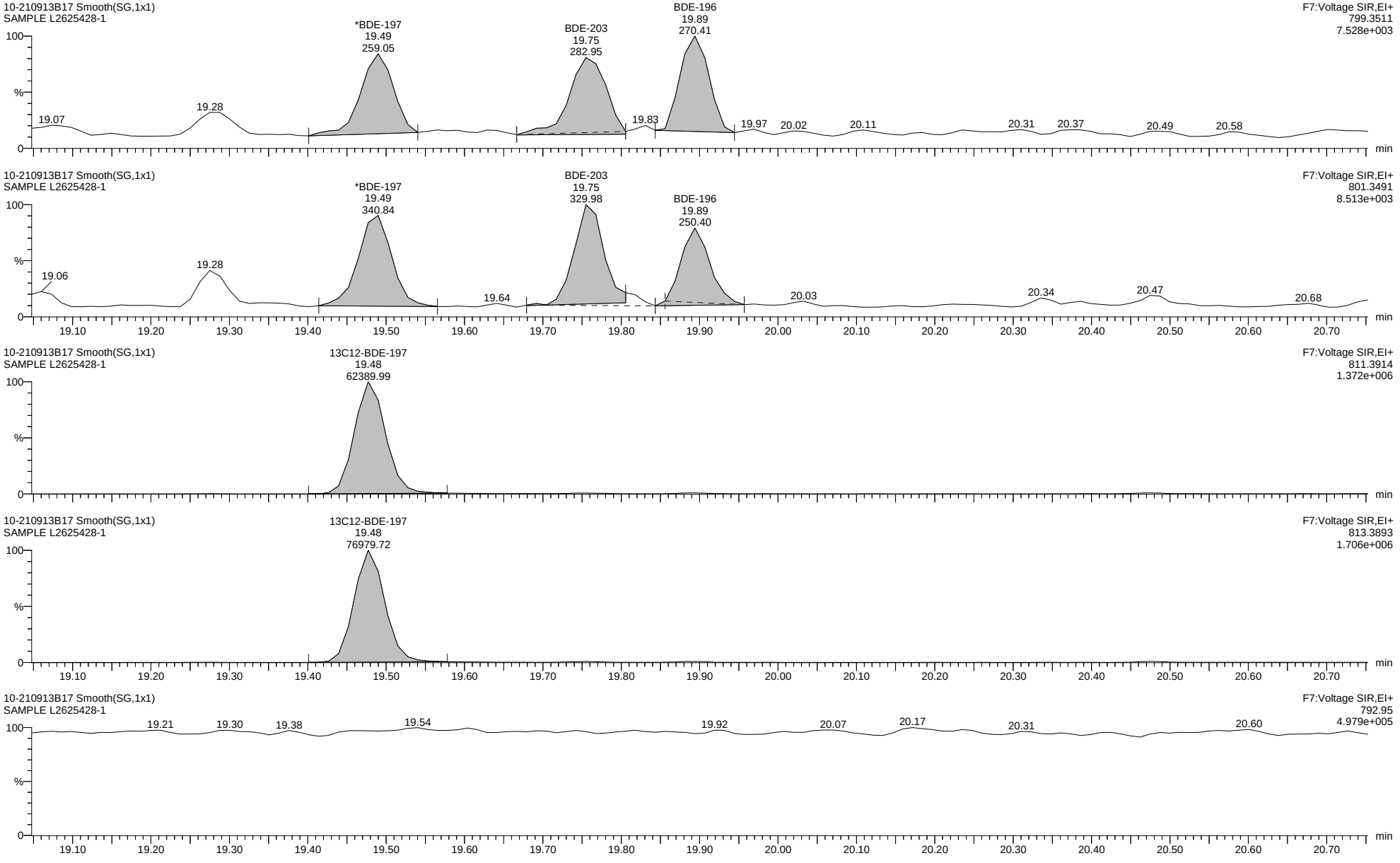
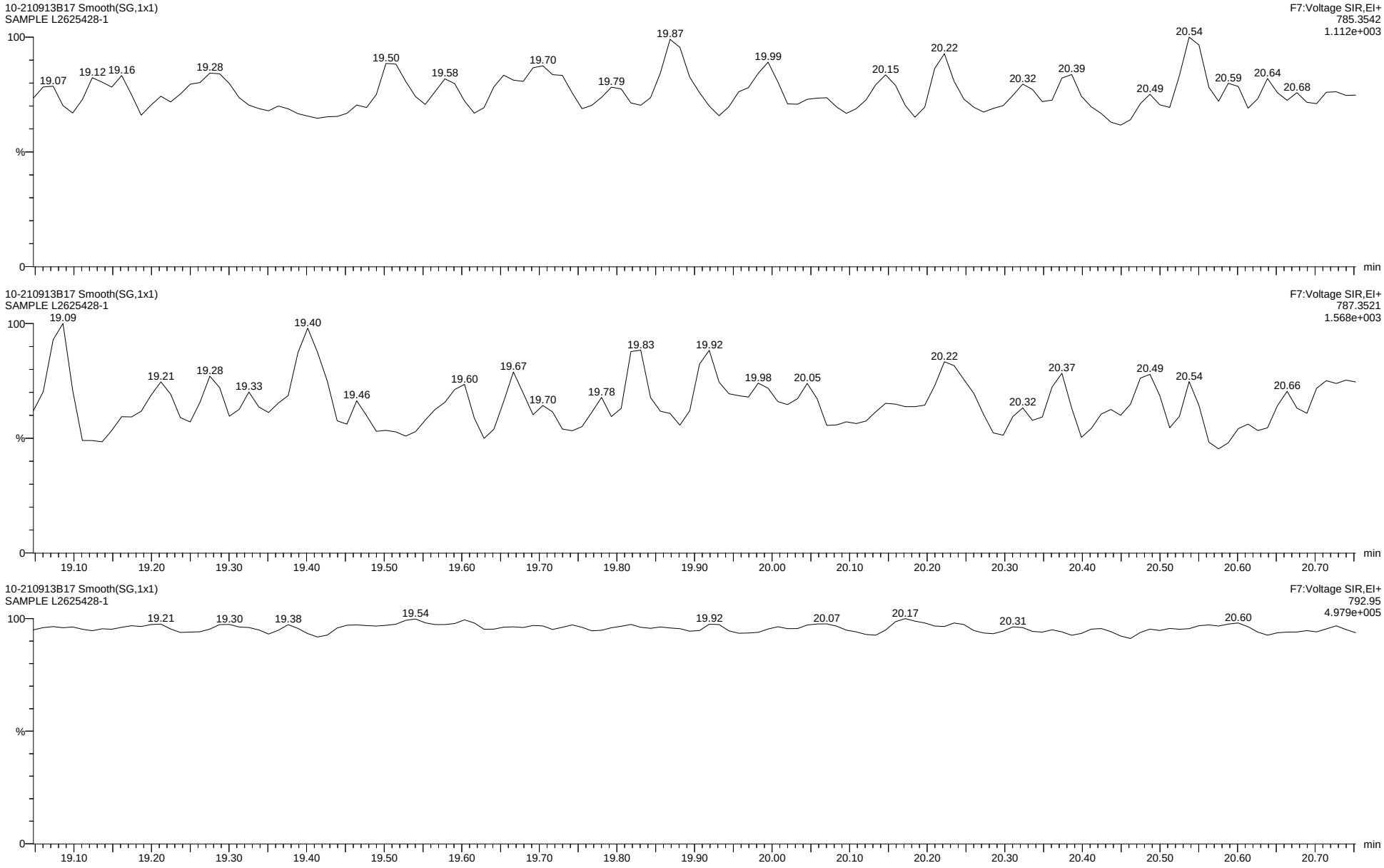


Dataset: I:\Organics Instrument\HIGHRES GCMS Completed Results Files\HR-10\2021\2109\10-210913B-Q1-PBDE.qld

Last Altered: Thursday, September 16, 2021 14:59:12 Eastern Daylight Time
Printed: Friday, September 17, 2021 12:20:40 Eastern Daylight Time

Name: 10-210913B17, Date: 14-Sep-2021, Time: 02:30:38, ID: L2625428-1, Description: SAMPLE, Vial: Tray1:20

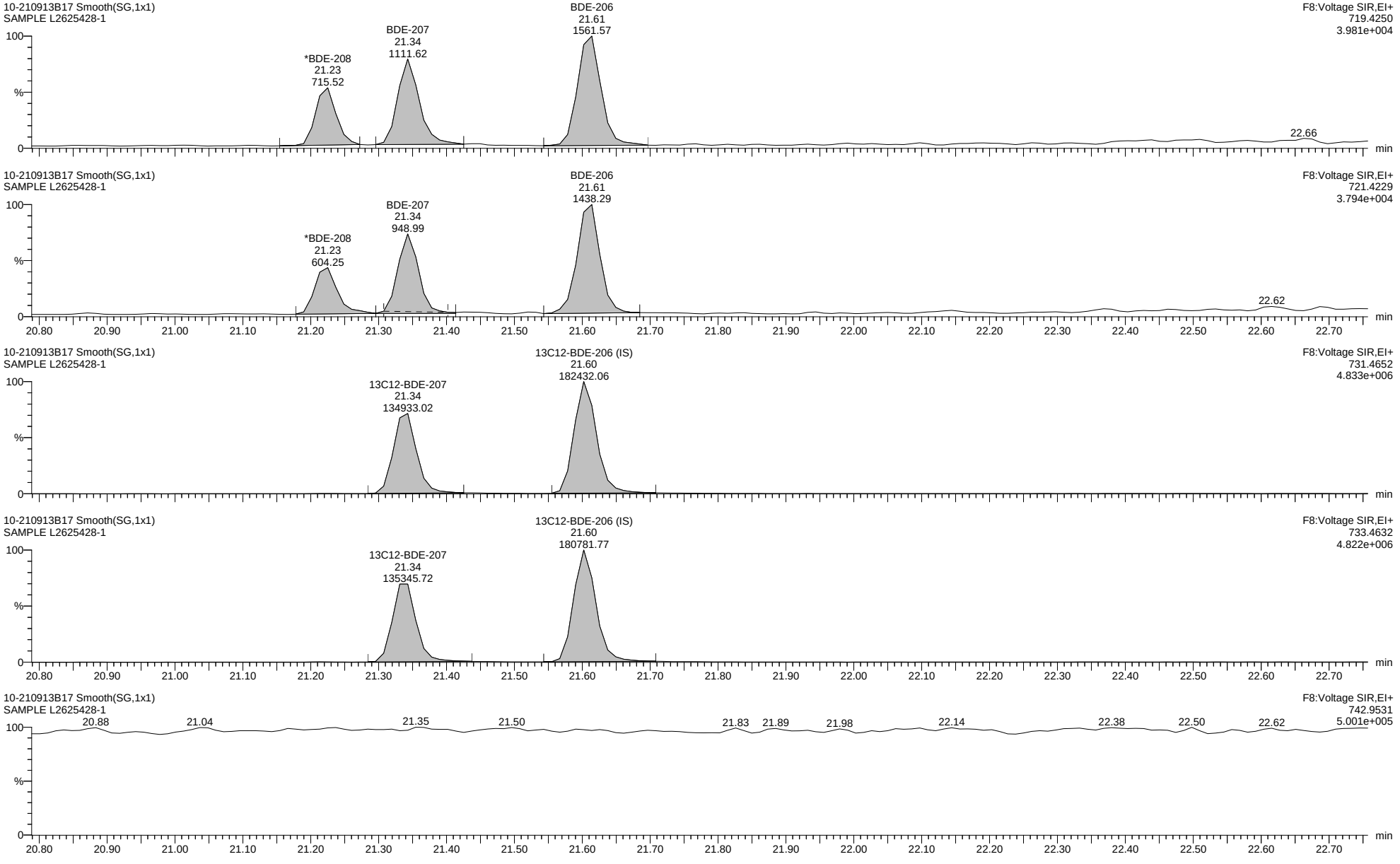


Quantify Sample Template Report **MassLynx MassLynx V4.1 SCN 901**

Dataset: I:\Organics Instrument\HIGHRES GCMS Completed Results Files\HR-10\2021\2109\10-210913B-Q1-PBDE.qld

Last Altered: Thursday, September 16, 2021 14:59:12 Eastern Daylight Time
Printed: Friday, September 17, 2021 12:20:40 Eastern Daylight Time

Name: 10-210913B17, Date: 14-Sep-2021, Time: 02:30:38, ID: L2625428-1, Description: SAMPLE, Vial: Tray1:20



Quantify Sample Template Report **MassLynx MassLynx V4.1 SCN 901**

Dataset: I:\Organics Instrument\HIGHRES GCMS Completed Results Files\HR-10\2021\2109\10-210913B-Q1-PBDE.qld

Last Altered: Thursday, September 16, 2021 14:59:12 Eastern Daylight Time
Printed: Friday, September 17, 2021 12:20:40 Eastern Daylight Time

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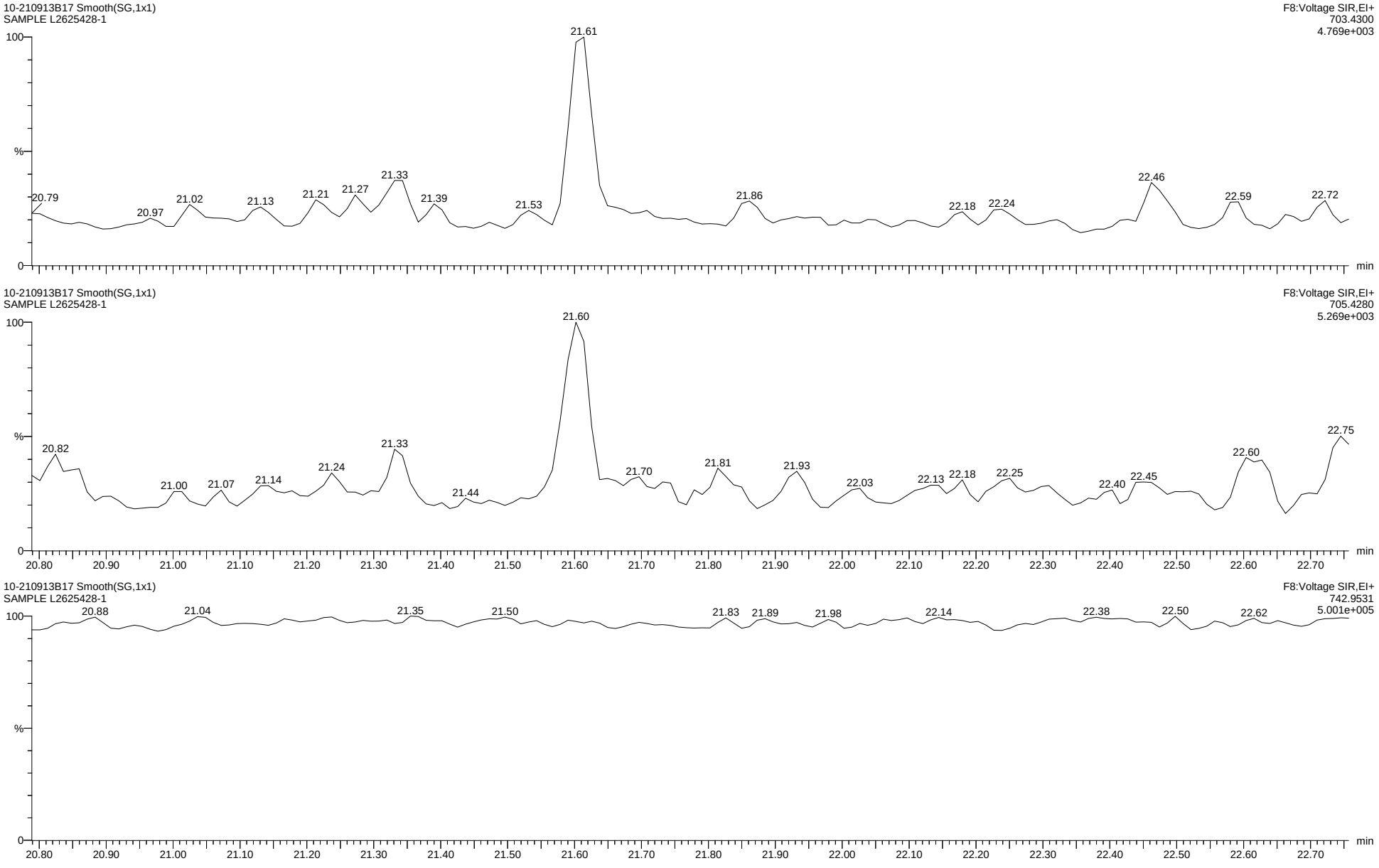
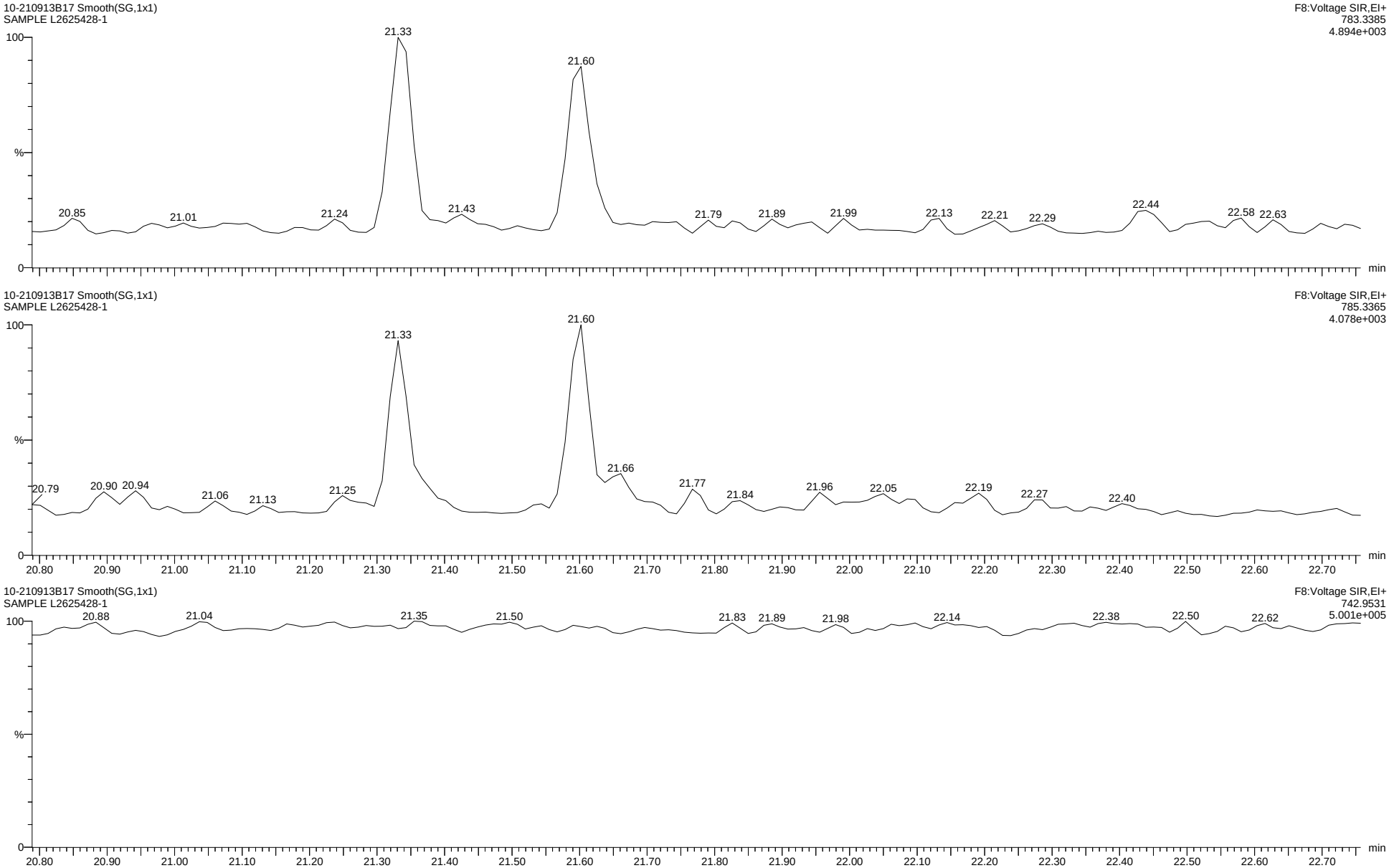


Name: 10-210913B17, Date: 14-Sep-2021, Time: 02:30:38, ID: L2625428-1, Description: SAMPLE, Vial: Tray1:20



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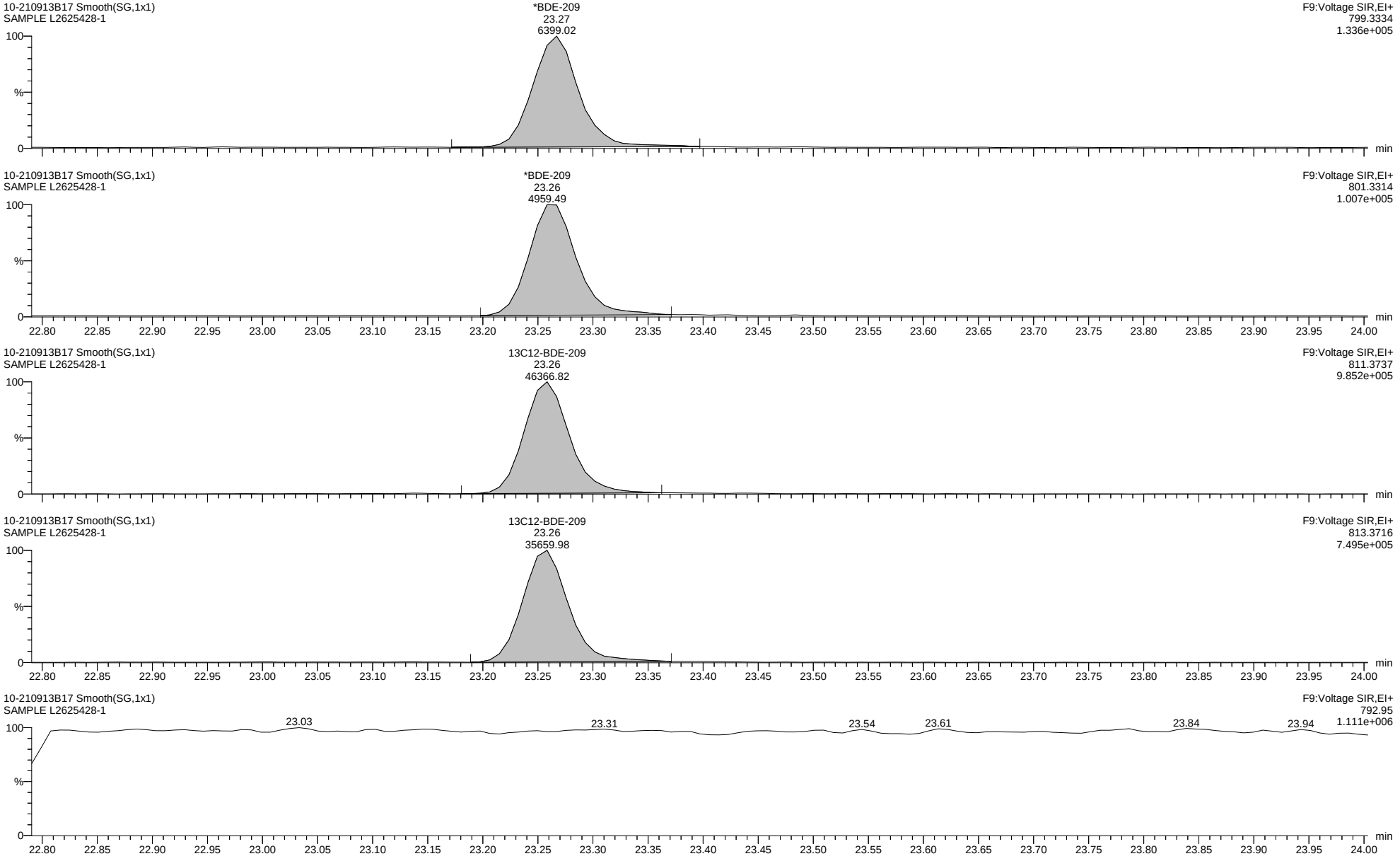

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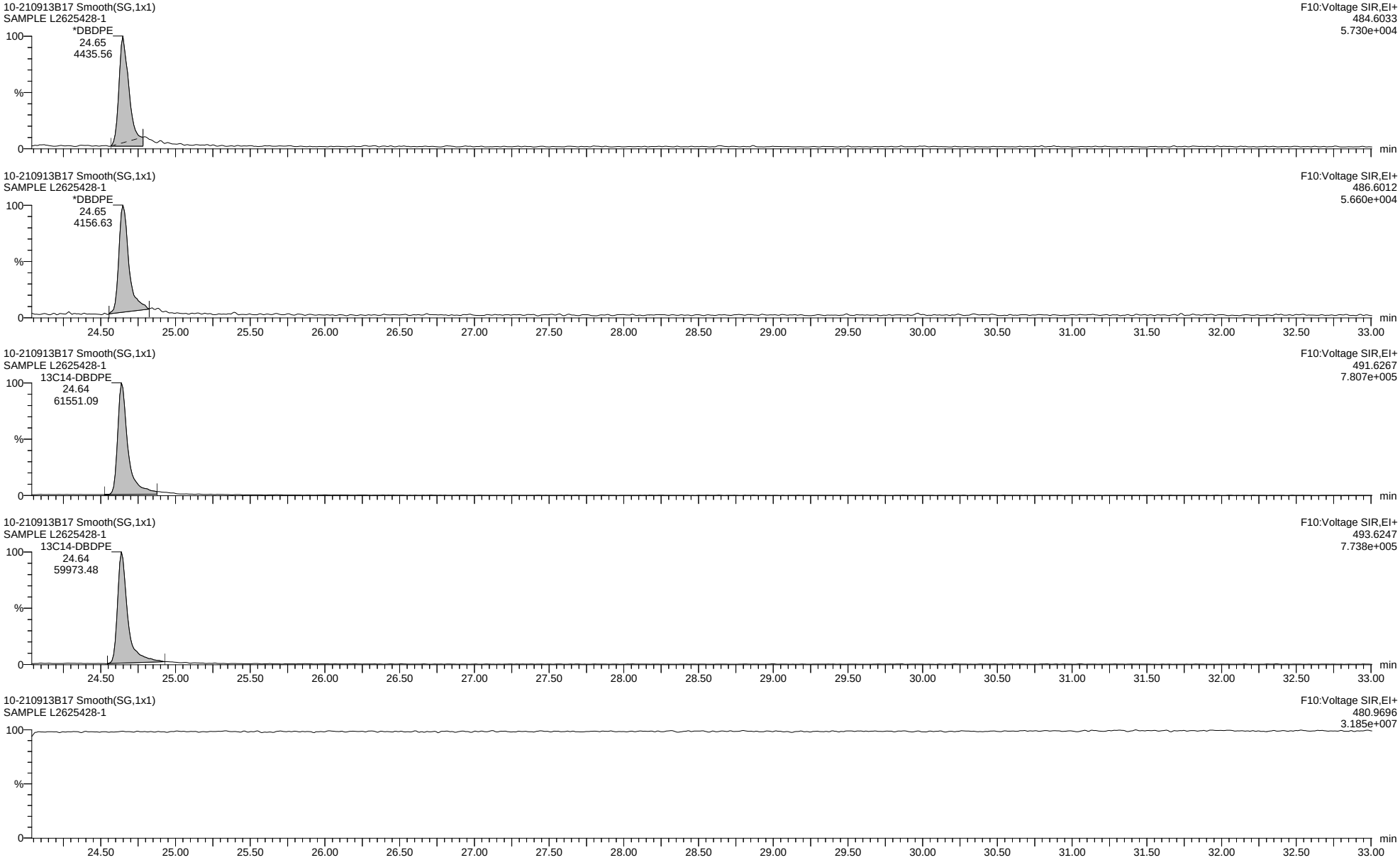
Last Altered: Thursday, September 16, 2021 14:59:12 Eastern Daylight Time
Printed: Friday, September 17, 2021 12:20:40 Eastern Daylight Time

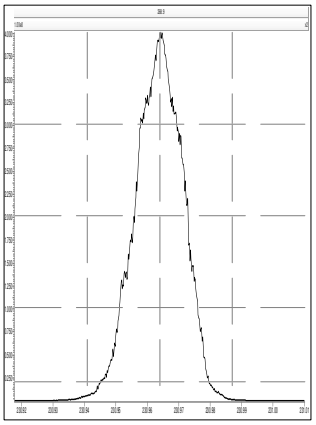
Name: 10-210913B17, Date: 14-Sep-2021, Time: 02:30:38, ID: L2625428-1, Description: SAMPLE, Vial: Tray1:20



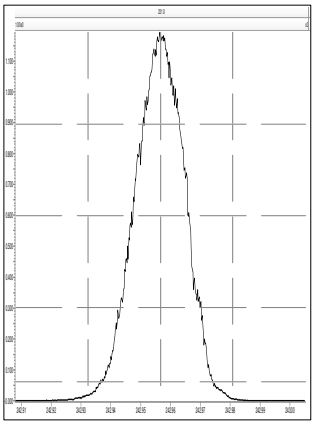
File: Experiment: PBDEX_1614.exp Reference: PfkALS.ref Function: 1 @ 400 (ppm)

Printed: Monday, September 13, 2021 16:51:47 Eastern Daylight Time

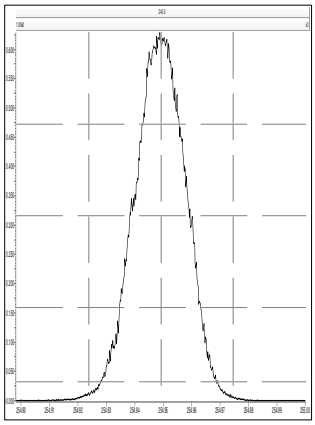
M 230.9856 R 6649



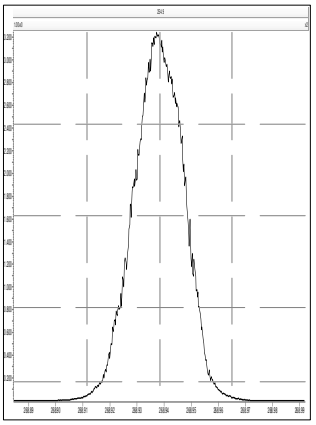
M 242.9856 R 6443



M 254.9856 R 6219



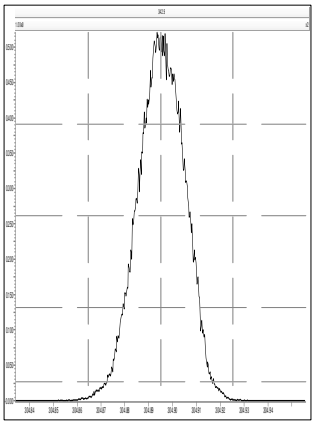
M 268.9824 R 6476



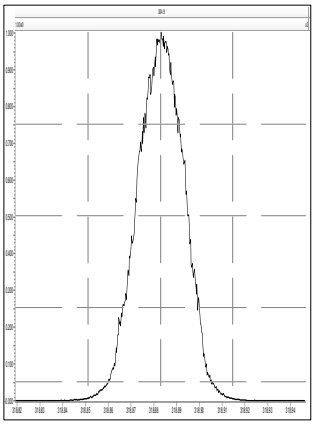
File: Experiment: PBDEX_1614.exp Reference: PfkALS.ref Function: 2 @ 400 (ppm)

Printed: Monday, September 13, 2021 16:52:22 Eastern Daylight Time

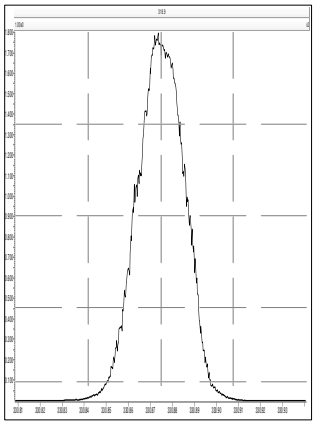
M 304.9824 R 6685



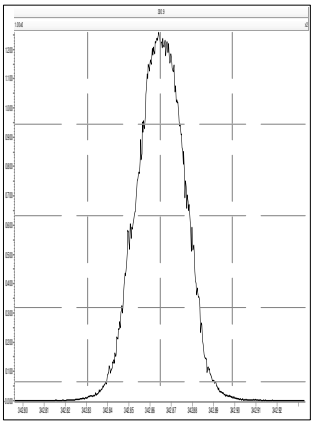
M 318.9792 R 7021



M 330.9792 R 6982



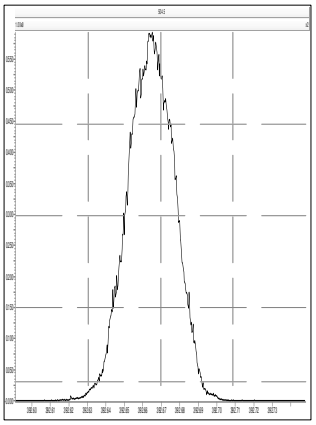
M 342.9792 R 6613



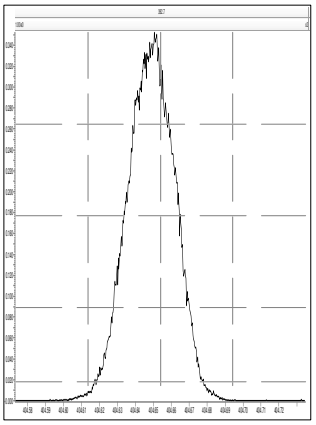
File: Experiment: PBDEX_1614.exp Reference: PfkALS.ref Function: 3 @ 400 (ppm)

Printed: Monday, September 13, 2021 16:52:48 Eastern Daylight Time

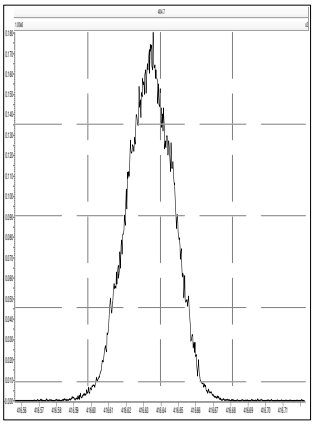
M 392.9760 R 6905



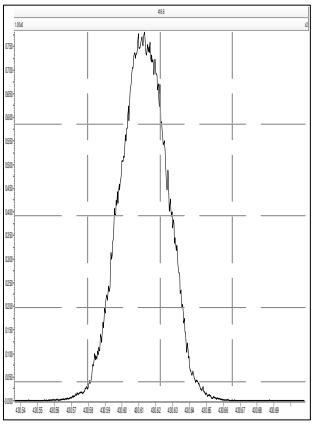
M 404.9760 R 6756



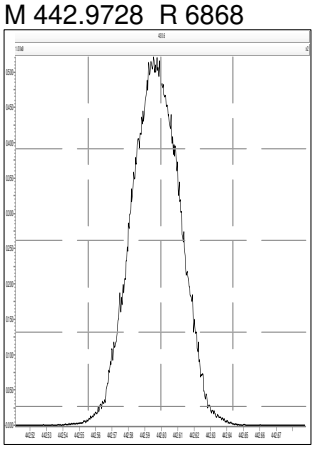
M 416.9760 R 6793



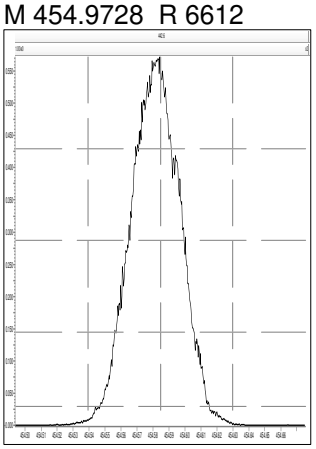
M 430.9728 R 6944



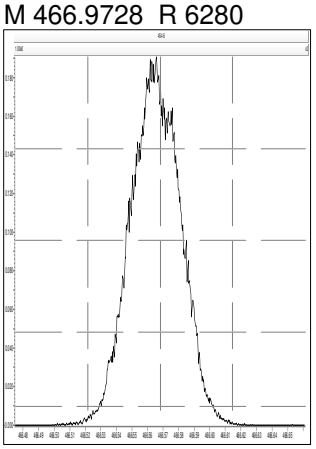
M 442.9728 R 6868



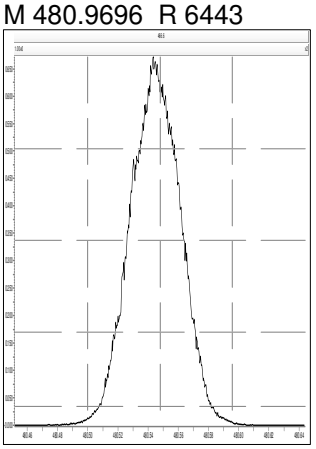
M 454.9728 R 6612



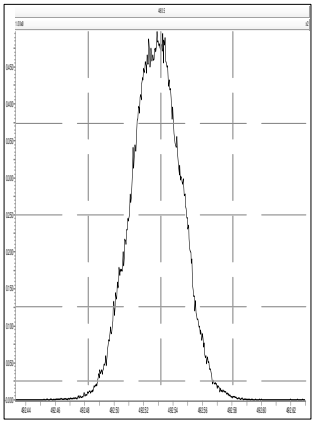
M 466.9728 R 6280



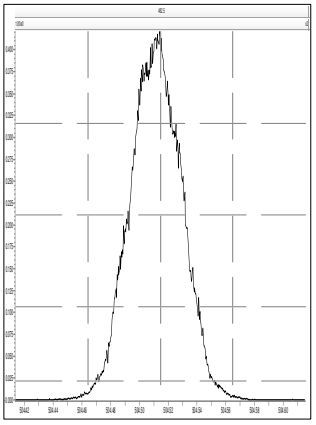
M 480.9696 R 6443



M 492.9696 R 6312



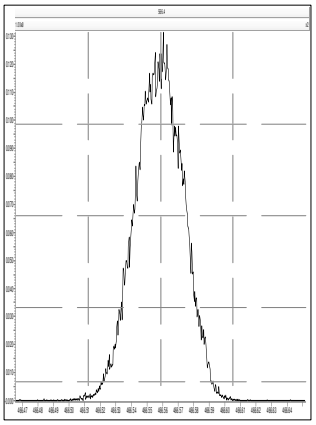
M 504.9696 R 6097



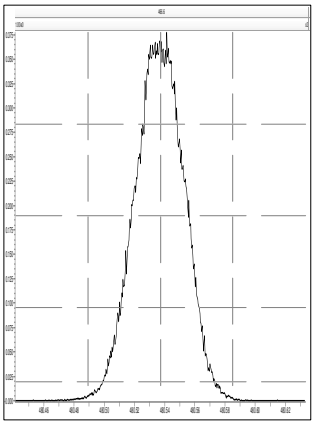
File: Experiment: PBDEX_1614.exp Reference: PfkALS.ref Function: 4 @ 400 (ppm)

Printed: Monday, September 13, 2021 16:53:19 Eastern Daylight Time

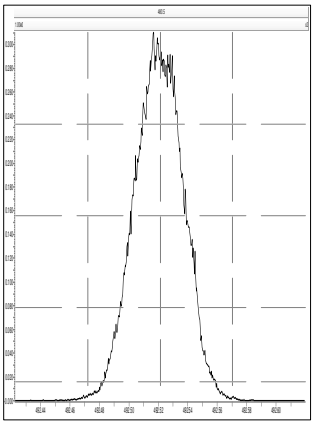
M 466.9728 R 6442



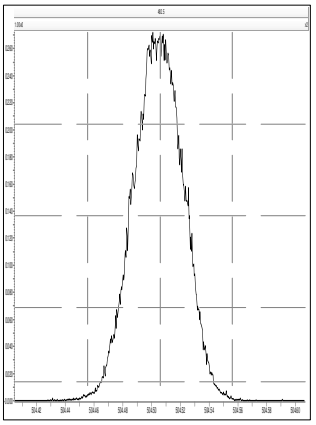
M 480.9696 R 6443



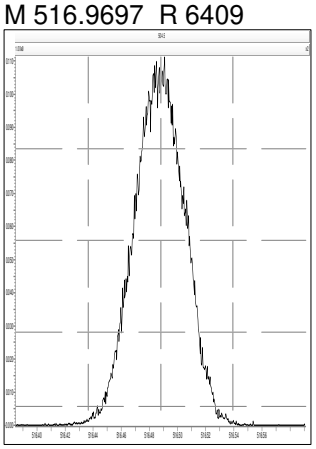
M 492.9696 R 6409



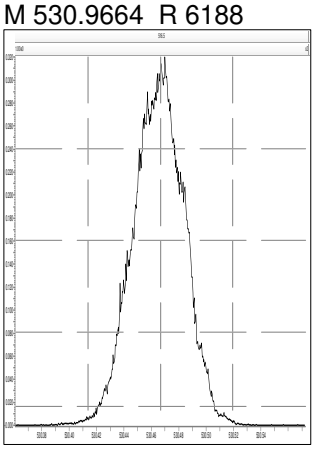
M 504.9696 R 6378



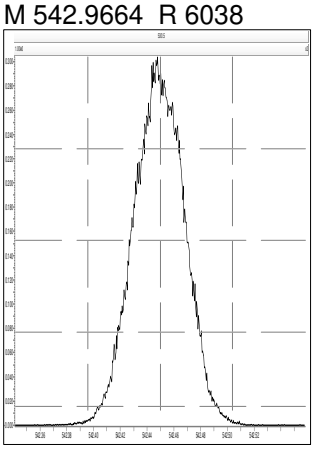
M 516.9697 R 6409



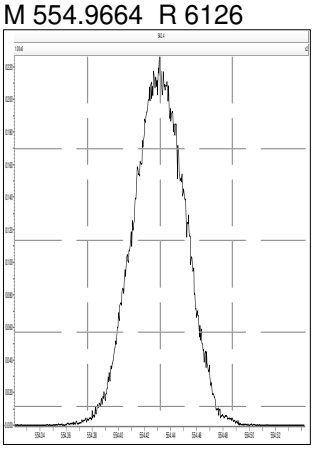
M 530.9664 R 6188



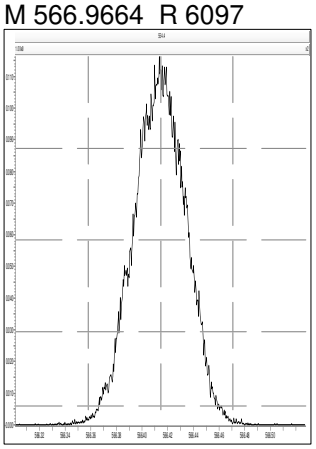
M 542.9664 R 6038



M 554.9664 R 6126



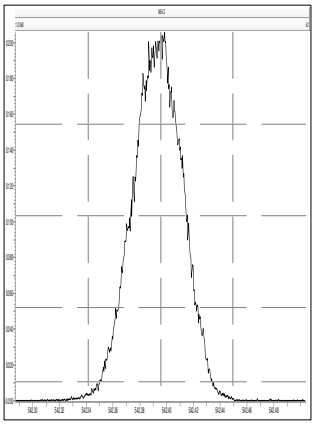
M 566.9664 R 6097



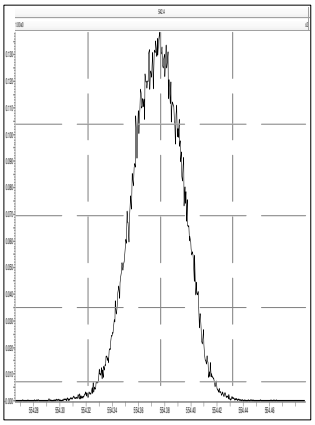
File: Experiment: PBDEX_1614.exp Reference: PfkALS.ref Function: 5 @ 400 (ppm)

Printed: Monday, September 13, 2021 16:53:48 Eastern Daylight Time

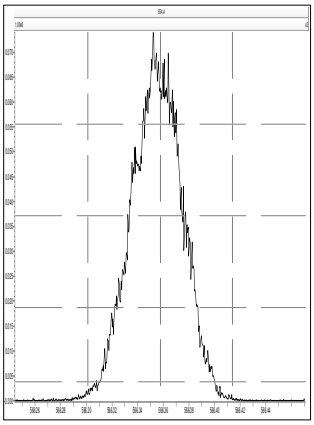
M 542.9664 R 6409



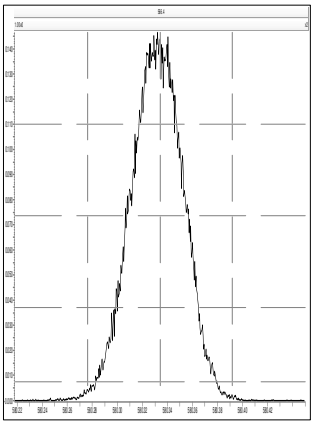
M 554.9664 R 6125



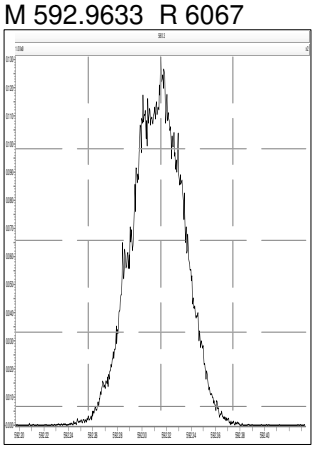
M 566.9664 R 6157



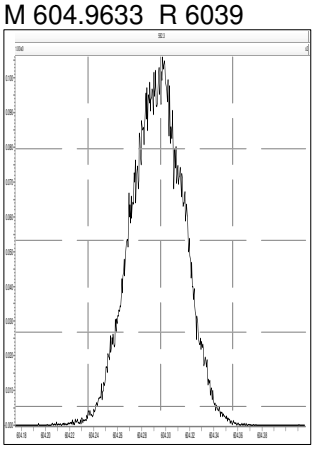
M 580.9633 R 6008



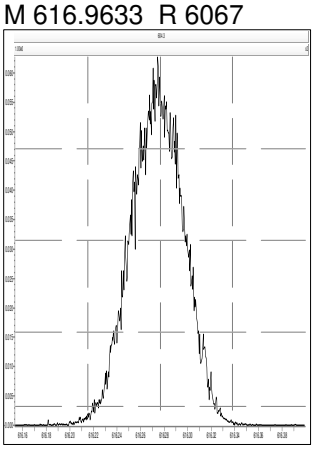
M 592.9633 R 6067



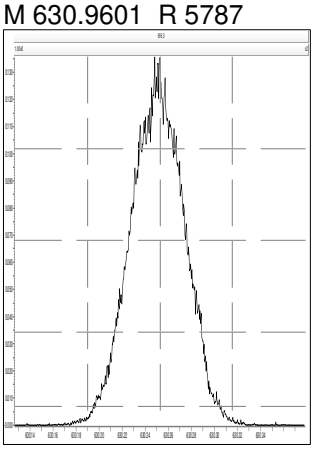
M 604.9633 R 6039



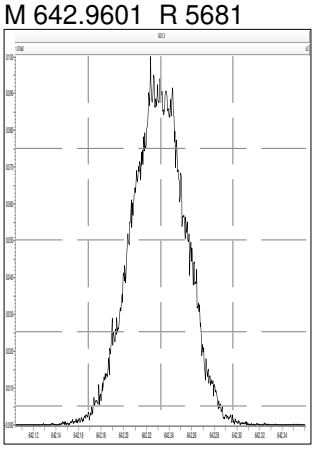
M 616.9633 R 6067



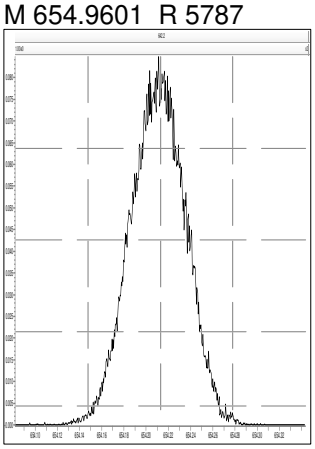
M 630.9601 R 5787



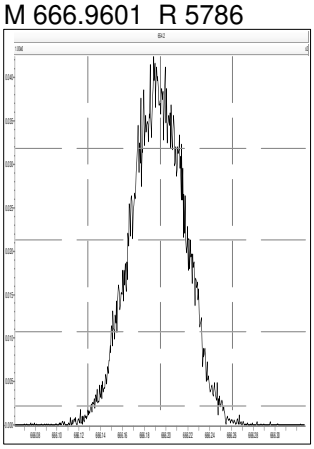
M 642.9601 R 5681



M 654.9601 R 5787



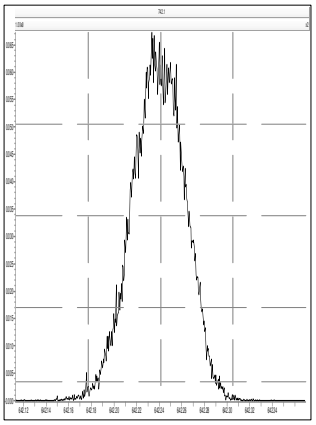
M 666.9601 R 5786



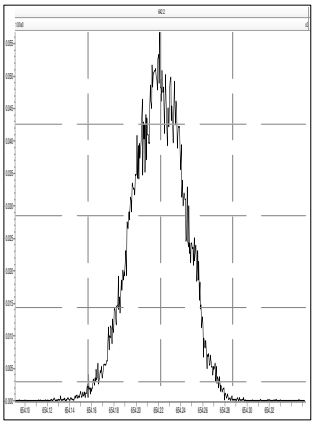
File: Experiment: PBDEX_1614.exp Reference: PfkALS.ref Function: 6 @ 400 (ppm)

Printed: Monday, September 13, 2021 16:54:19 Eastern Daylight Time

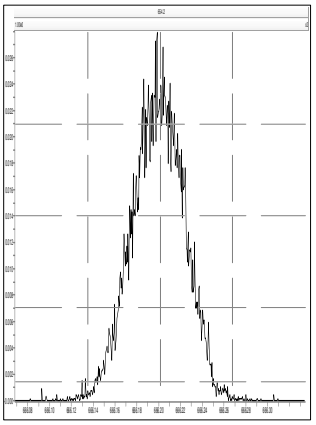
M 642.9601 R 6188



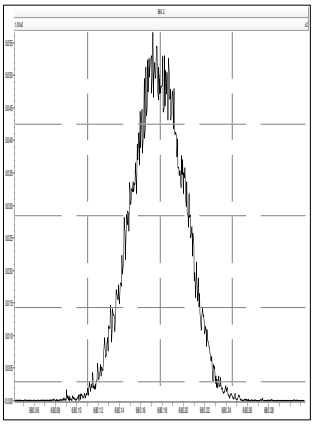
M 654.9601 R 5786



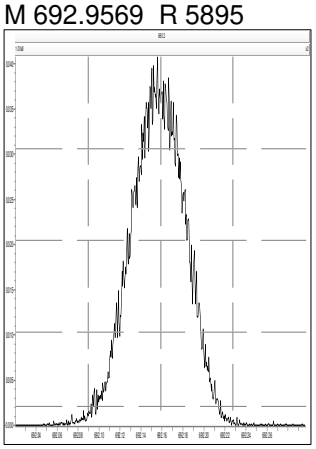
M 666.9601 R 5980



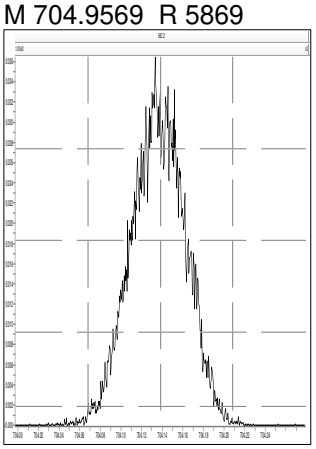
M 680.9569 R 6038



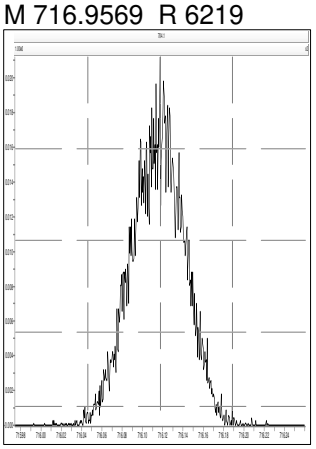
M 692.9569 R 5895



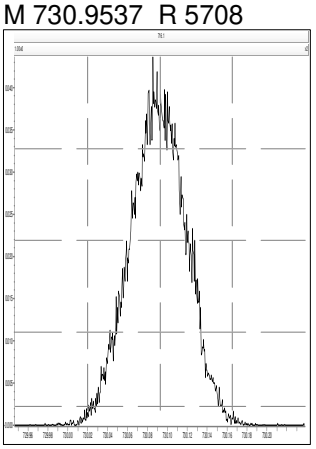
M 704.9569 R 5869



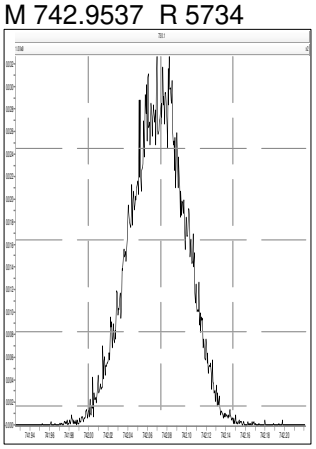
M 716.9569 R 6219



M 730.9537 R 5708



M 742.9537 R 5734



File: Experiment: PBDEX_1614.exp Reference: PfkALS.ref Function: 7 @ 400 (ppm)

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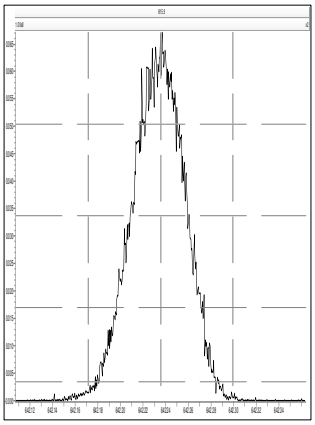
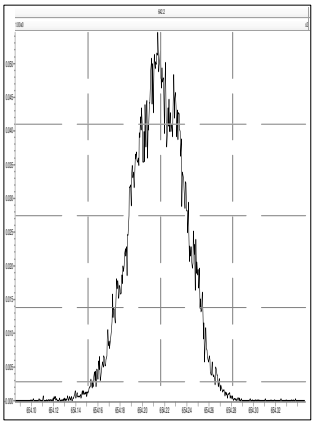
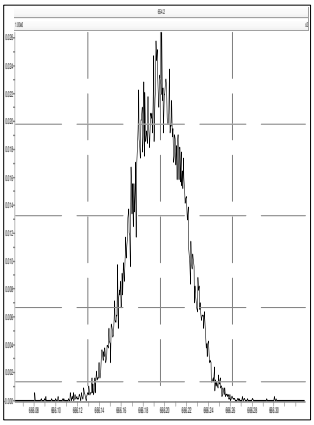
M 642.9601 R 6127



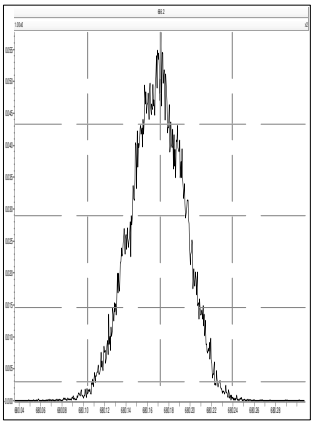
M 654.9601 R 5981



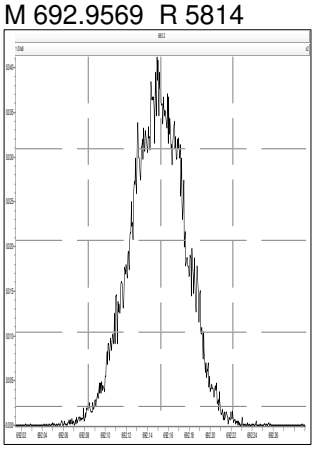
M 666.9601 R 6097



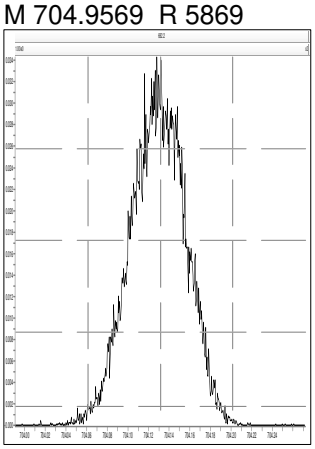
M 680.9569 R 6008



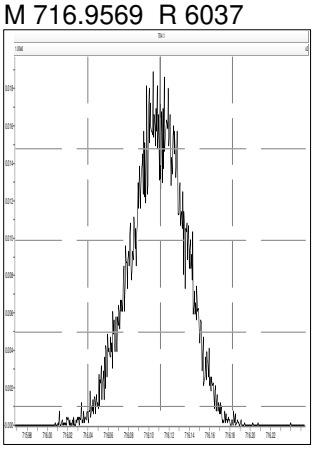
M 692.9569 R 5814



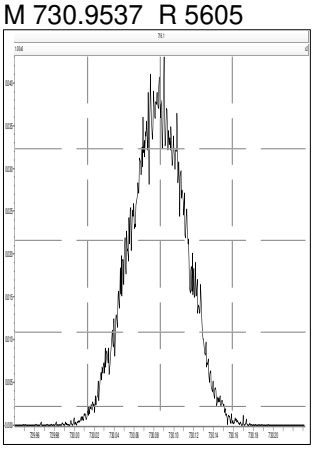
M 704.9569 R 5869



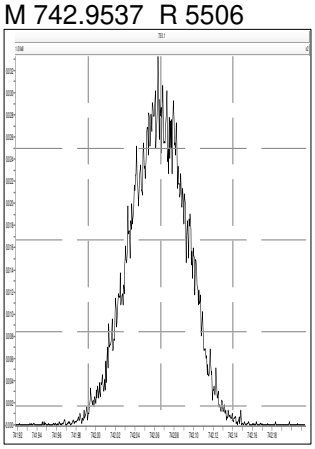
M 716.9569 R 6037



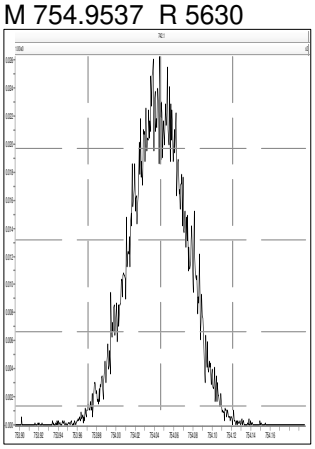
M 730.9537 R 5605



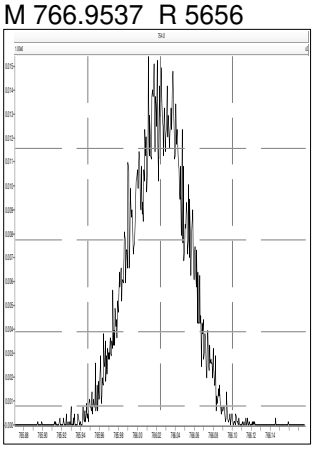
M 742.9537 R 5506



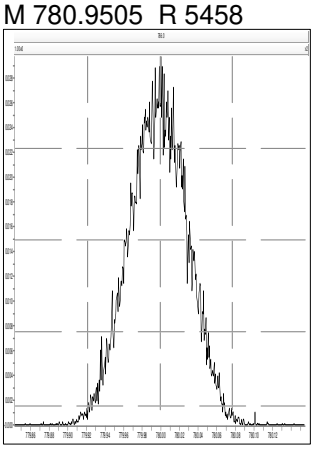
M 754.9537 R 5630



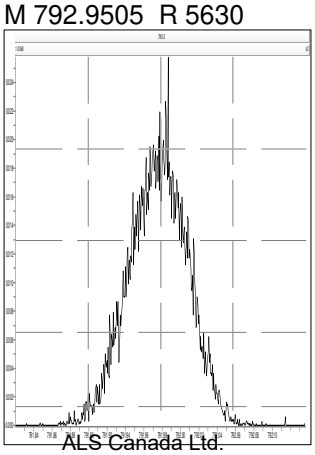
M 766.9537 R 5656



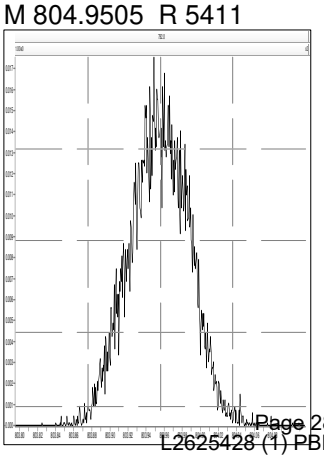
M 780.9505 R 5458



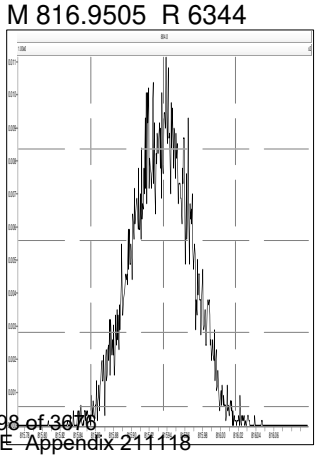
M 792.9505 R 5630



M 804.9505 R 5411



M 816.9505 R 6344



File: Experiment: PBDEX_1614.exp Reference: PfkALS.ref Function: 8 @ 400 (ppm)

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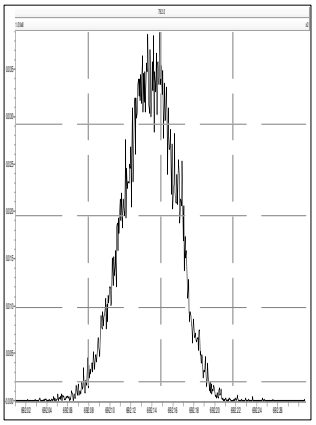
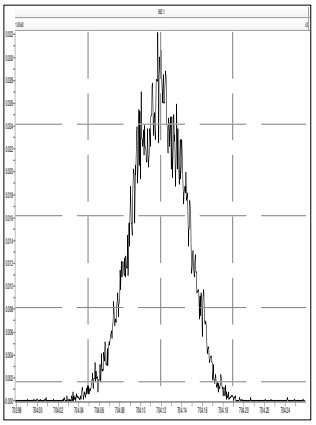
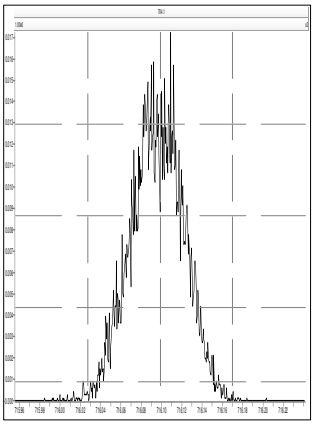
M 692.9569 R 6157



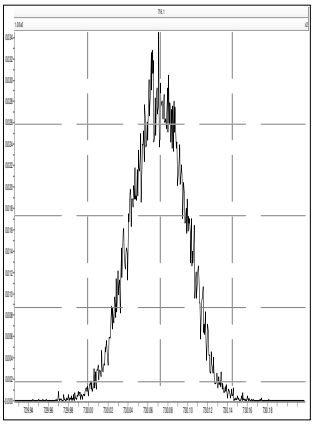
M 704.9569 R 6158



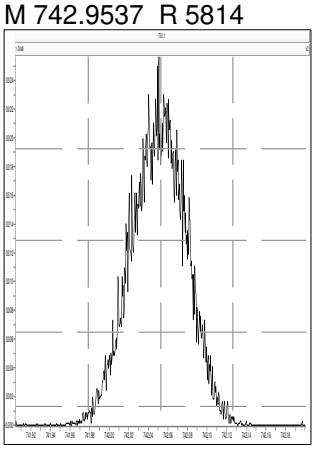
M 716.9569 R 6218



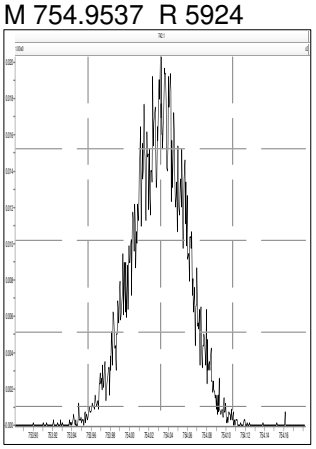
M 730.9537 R 6009



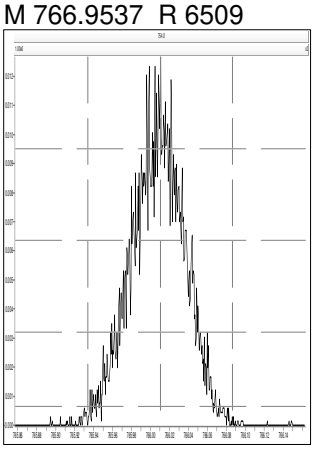
M 742.9537 R 5814



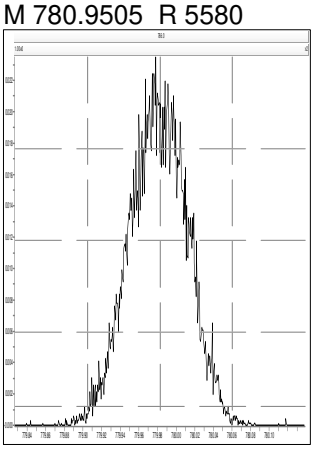
M 754.9537 R 5924



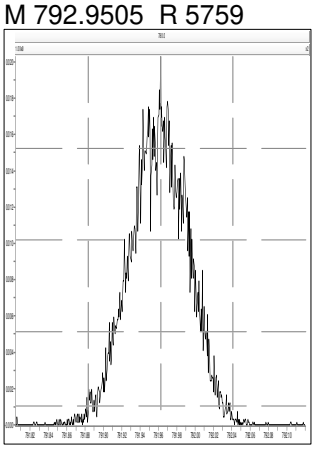
M 766.9537 R 6509



M 780.9505 R 5580



M 792.9505 R 5759



File: Experiment: PBDEX_1614.exp Reference: PfkALS.ref Function: 9 @ 400 (ppm)

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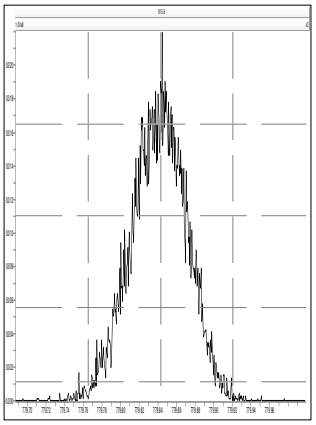
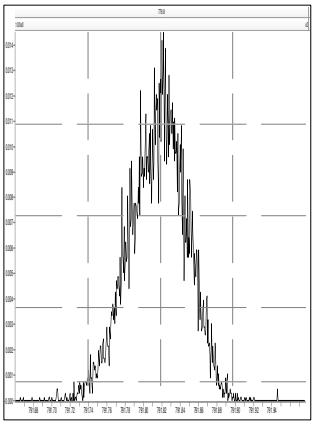
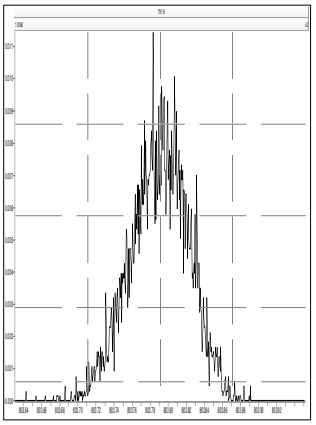
M 780.9505 R 5580



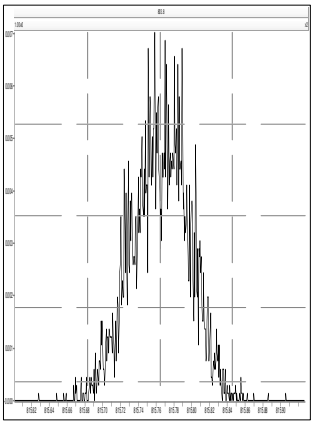
M 792.9505 R 5895



M 804.9505 R 5459



M 816.9505 R 5707



File: Experiment: PBDEX_1614.exp Reference: PfkALS.ref Function: 10 @ 400 (ppm)

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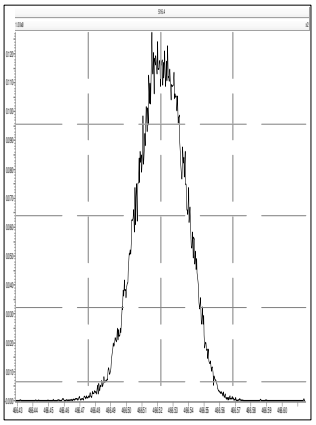
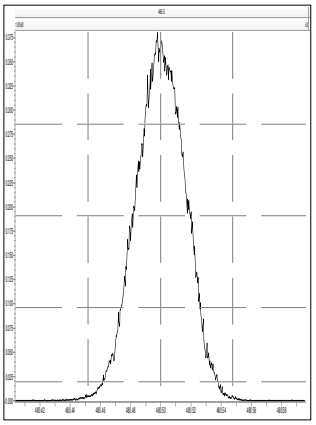
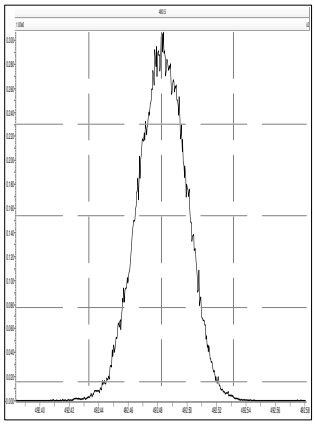
M 466.9728 R 6578



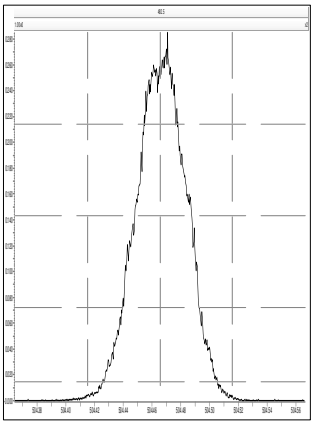
M 480.9696 R 6281



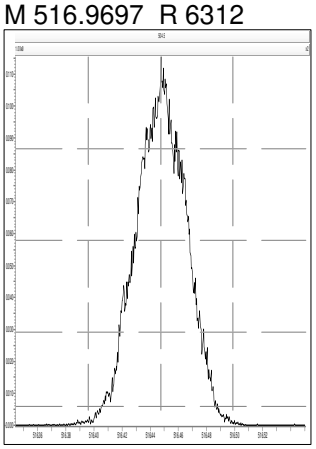
M 492.9696 R 6543



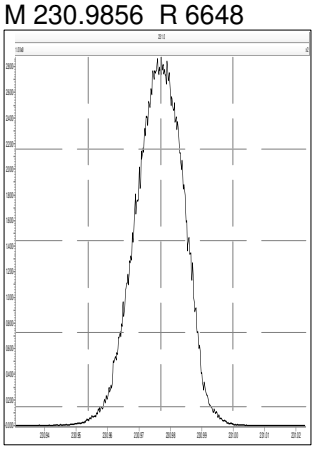
M 504.9696 R 6249



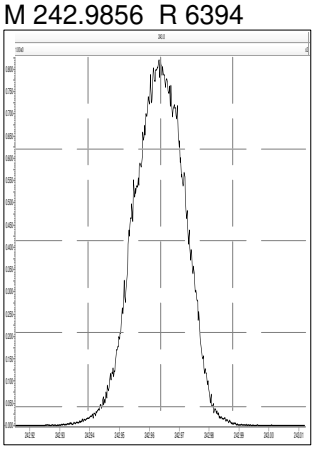
M 516.9697 R 6312



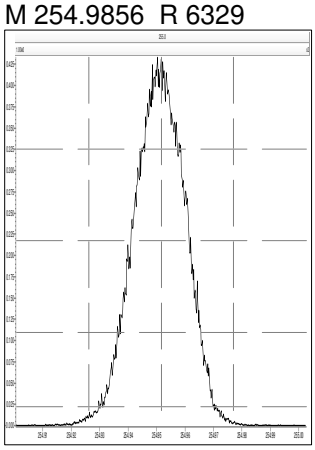
M 230.9856 R 6648



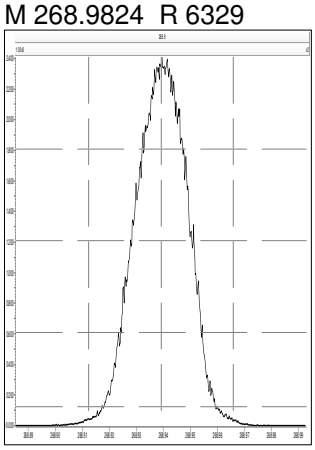
M 242.9856 R 6394



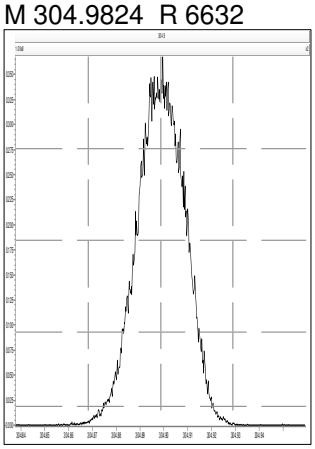
M 254.9856 R 6329



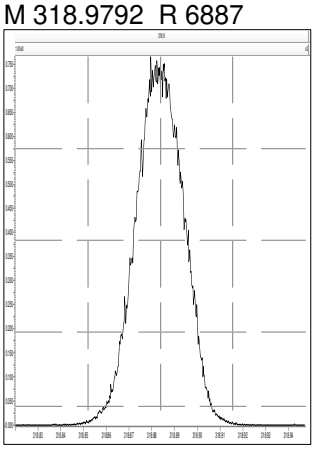
M 268.9824 R 6329



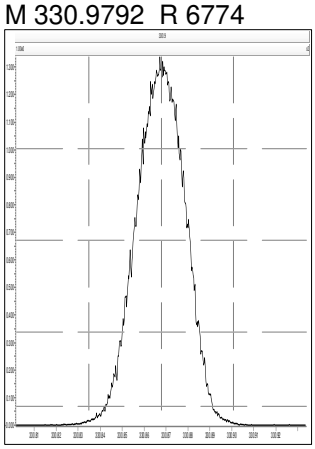
M 304.9824 R 6632



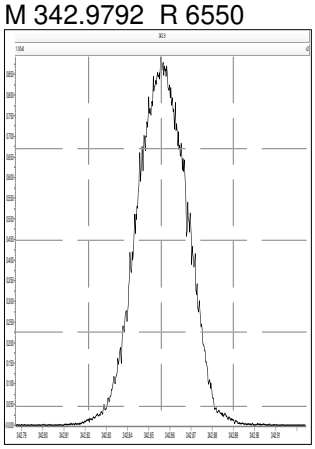
M 318.9792 R 6887



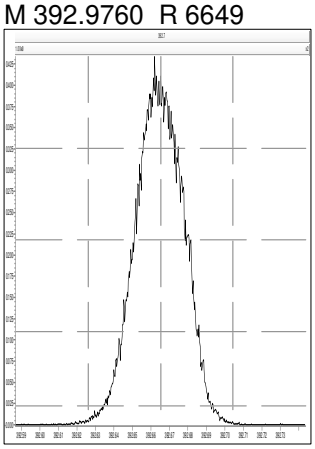
M 330.9792 R 6774



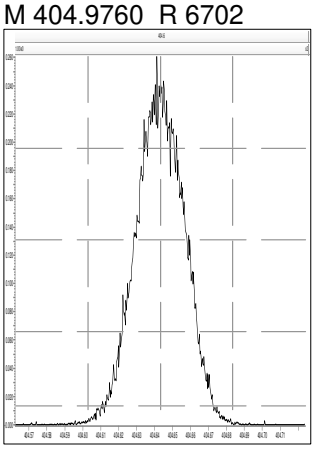
M 342.9792 R 6550



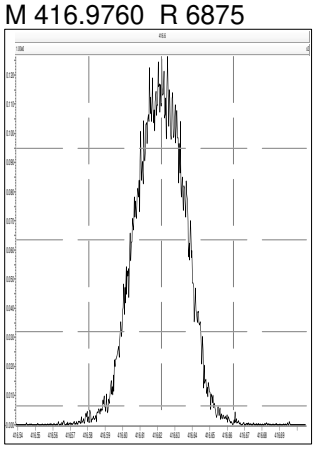
M 392.9760 R 6649



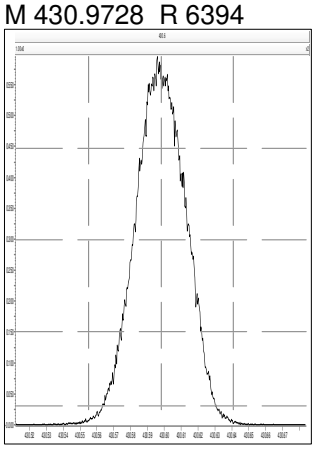
M 404.9760 R 6702



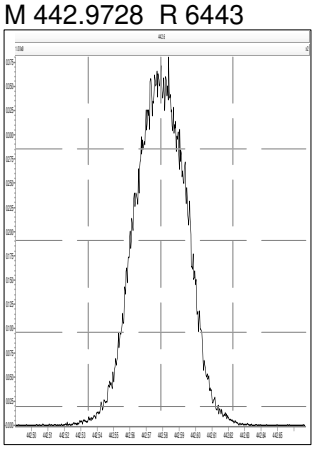
M 416.9760 R 6875



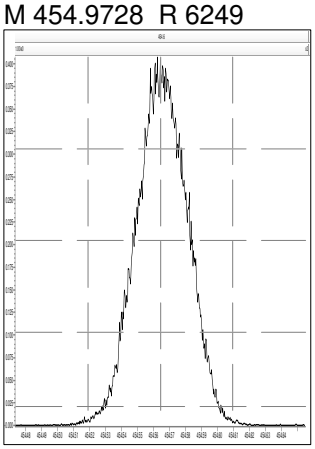
M 430.9728 R 6394



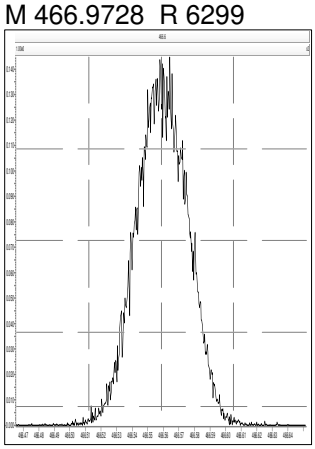
M 442.9728 R 6443



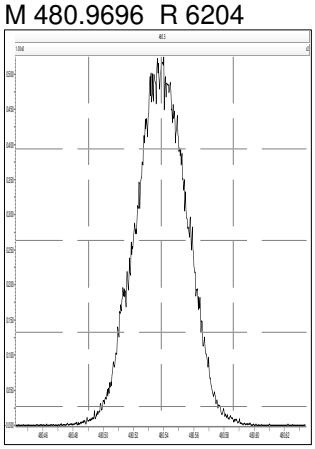
M 454.9728 R 6249



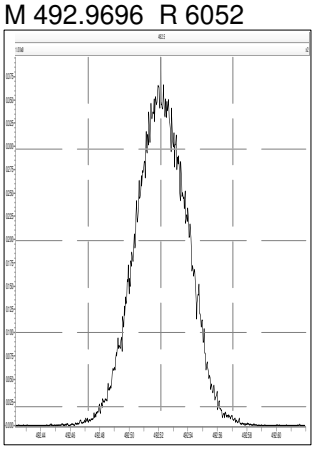
M 466.9728 R 6299



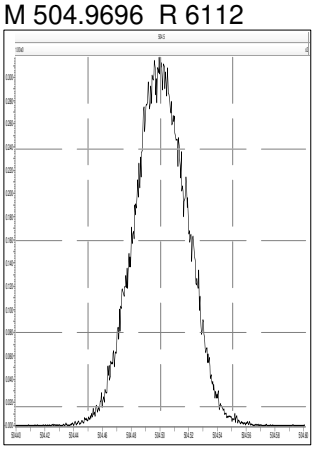
M 480.9696 R 6204



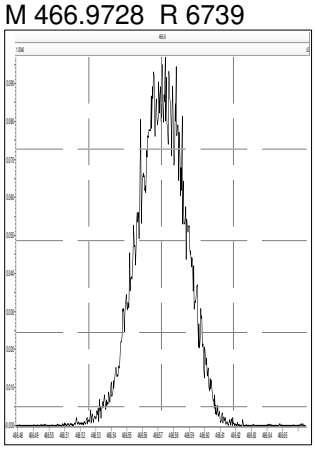
M 492.9696 R 6052



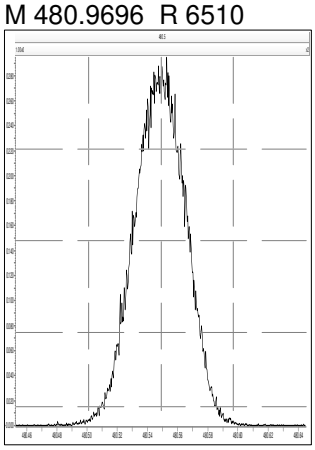
M 504.9696 R 6112



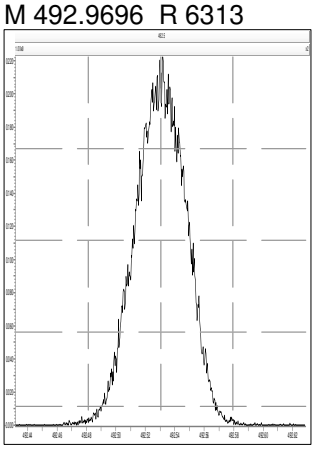
M 466.9728 R 6739



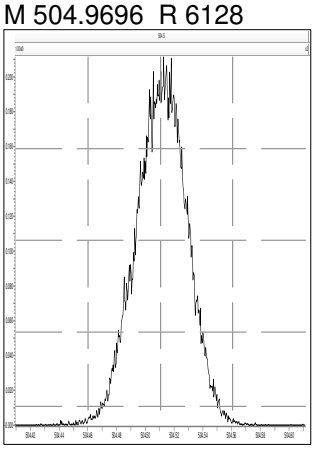
M 480.9696 R 6510



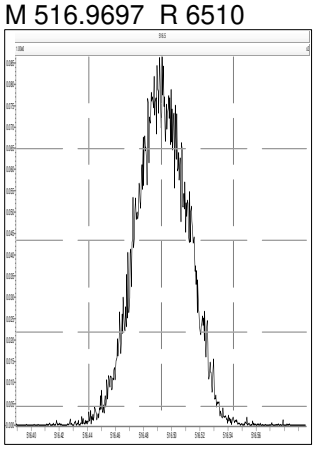
M 492.9696 R 6313



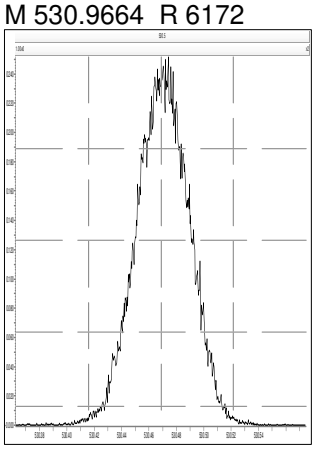
M 504.9696 R 6128



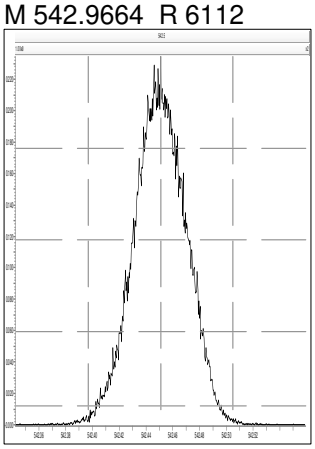
M 516.9697 R 6510



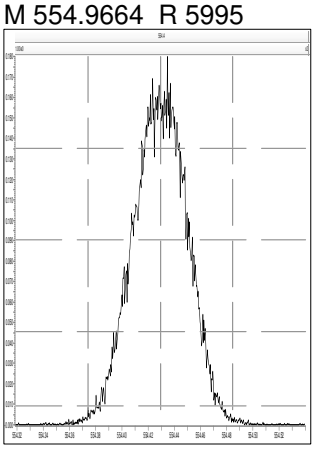
M 530.9664 R 6172



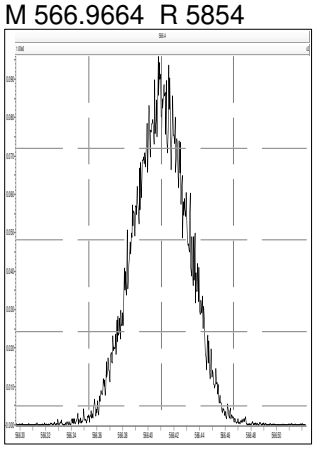
M 542.9664 R 6112



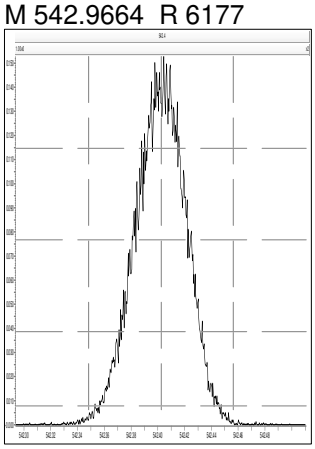
M 554.9664 R 5995



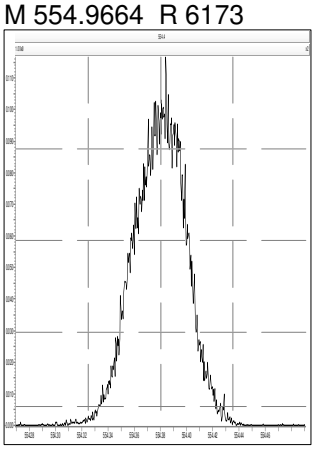
M 566.9664 R 5854



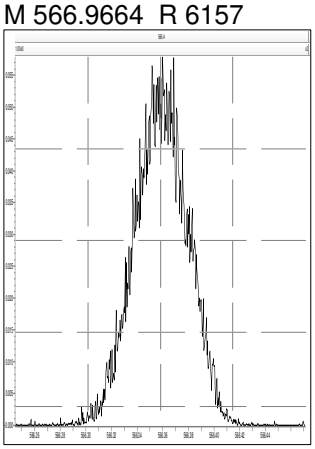
M 542.9664 R 6177



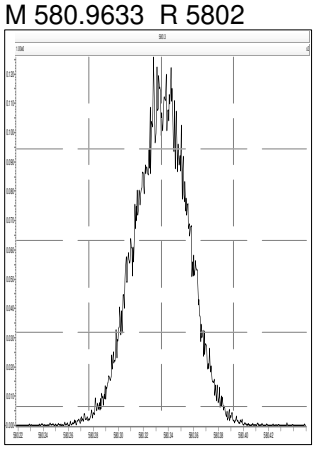
M 554.9664 R 6173



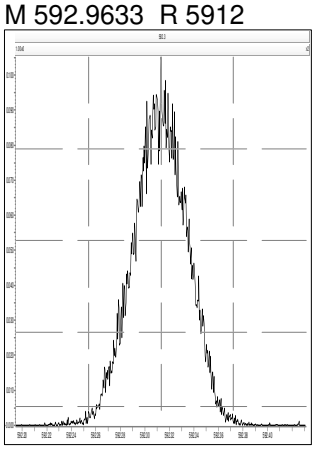
M 566.9664 R 6157



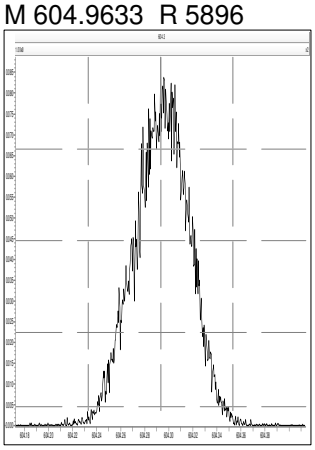
M 580.9633 R 5802



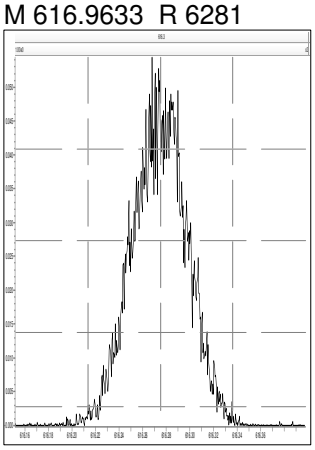
M 592.9633 R 5912



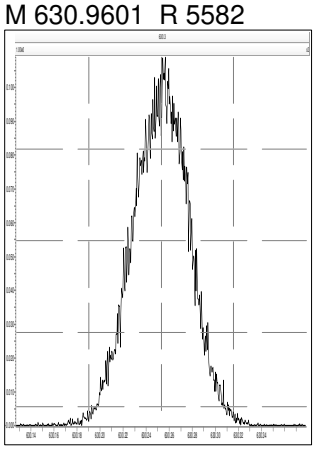
M 604.9633 R 5896



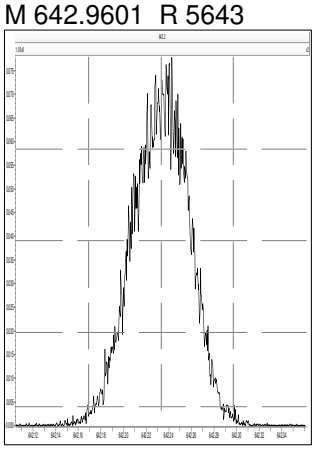
M 616.9633 R 6281



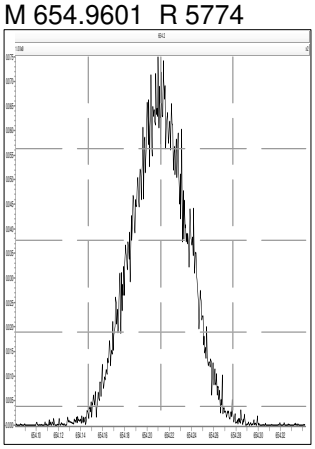
M 630.9601 R 5582



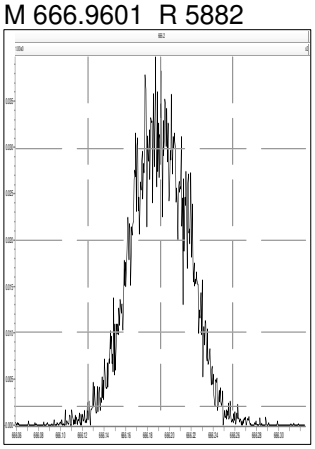
M 642.9601 R 5643



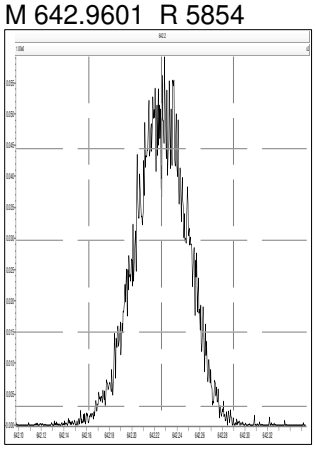
M 654.9601 R 5774



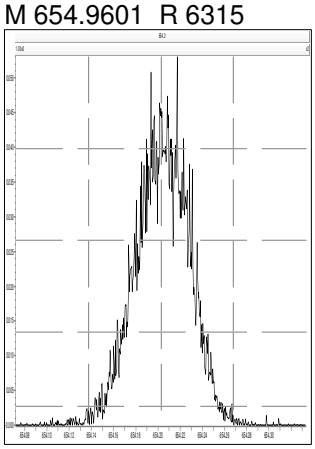
M 666.9601 R 5882



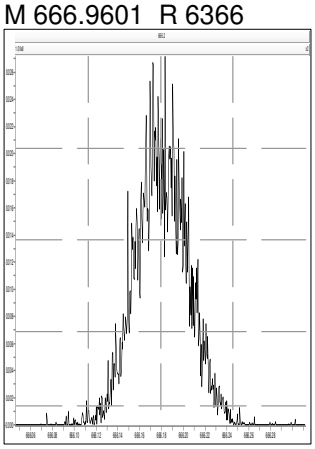
M 642.9601 R 5854



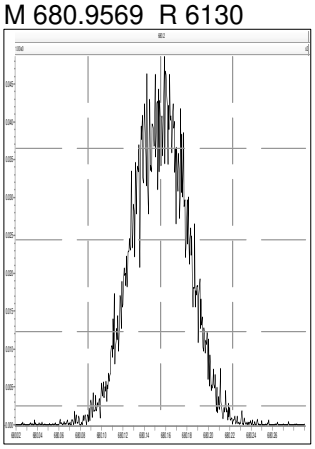
M 654.9601 R 6315



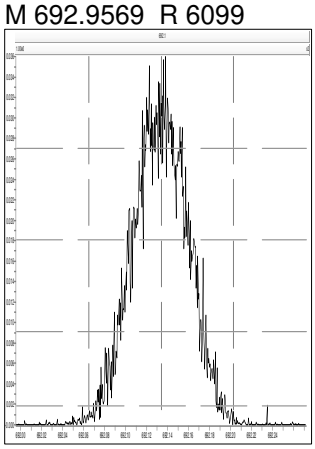
M 666.9601 R 6366



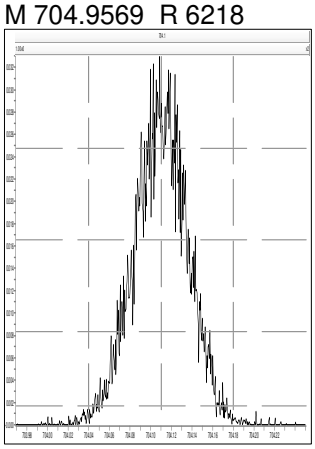
M 680.9569 R 6130



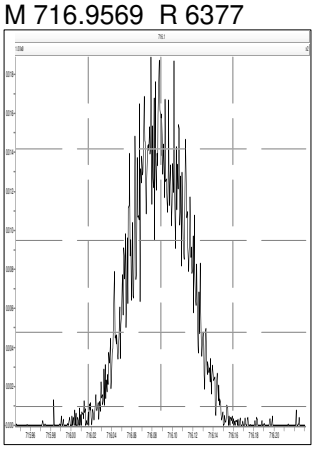
M 692.9569 R 6099



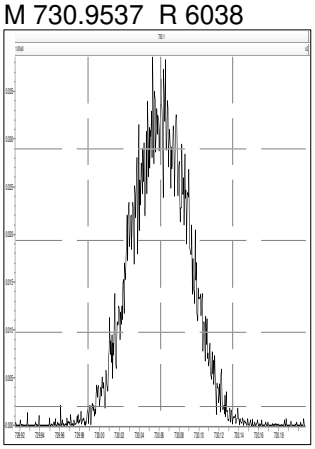
M 704.9569 R 6218



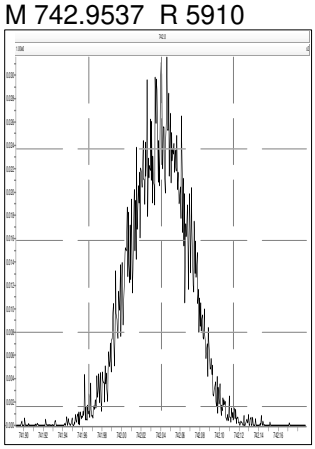
M 716.9569 R 6377



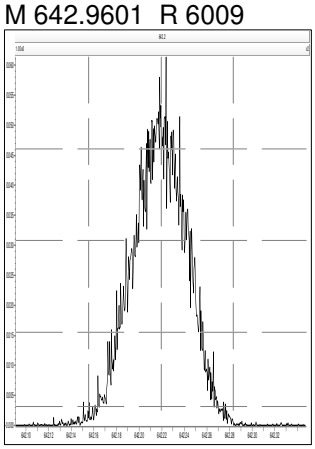
M 730.9537 R 6038



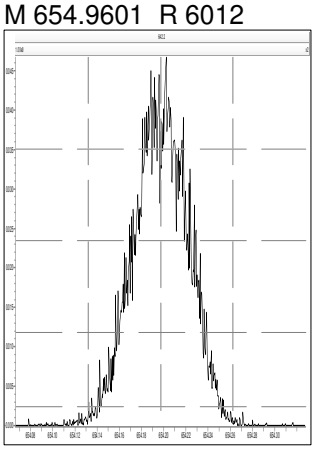
M 742.9537 R 5910



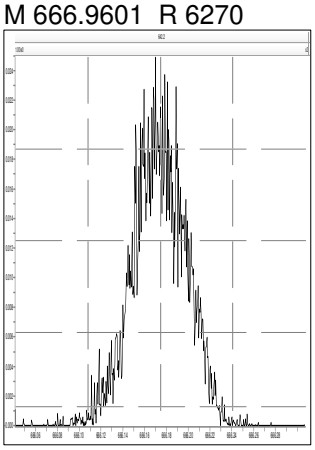
M 642.9601 R 6009



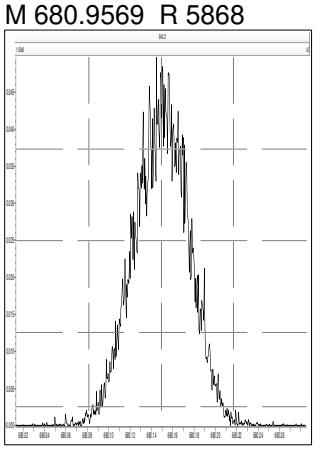
M 654.9601 R 6012



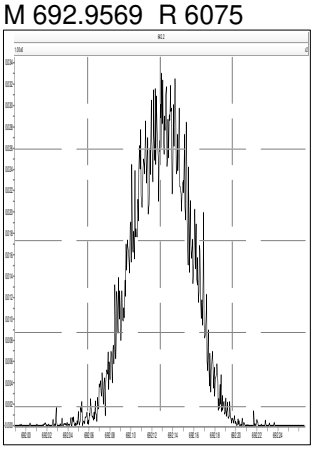
M 666.9601 R 6270



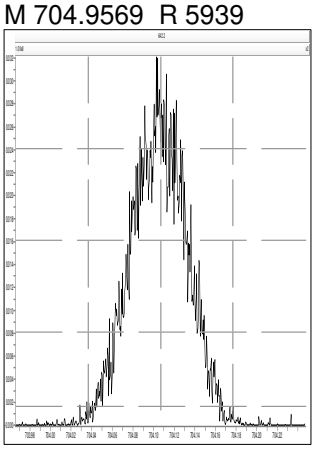
M 680.9569 R 5868



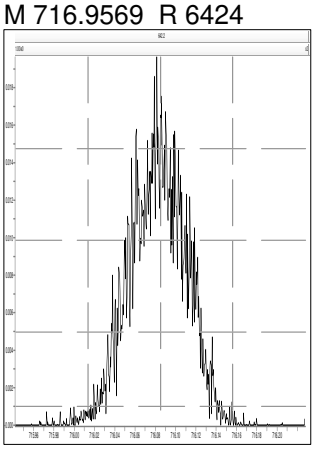
M 692.9569 R 6075



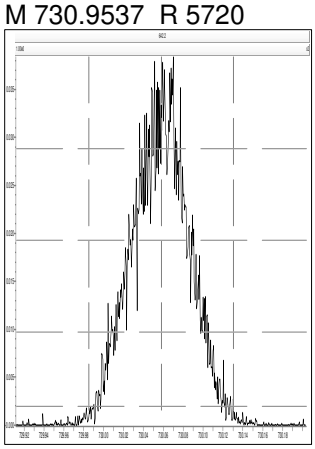
M 704.9569 R 5939



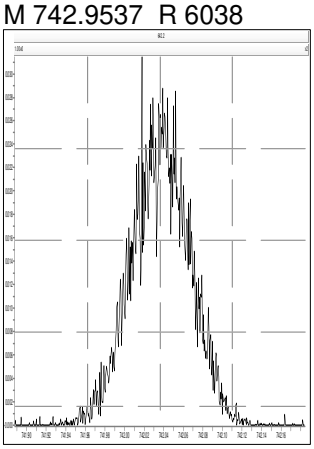
M 716.9569 R 6424



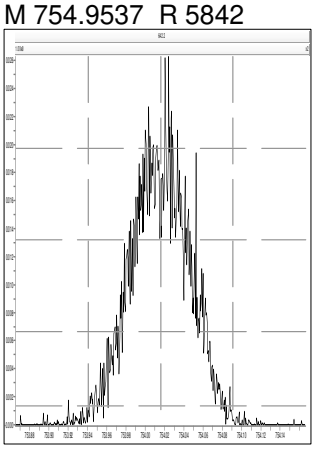
M 730.9537 R 5720



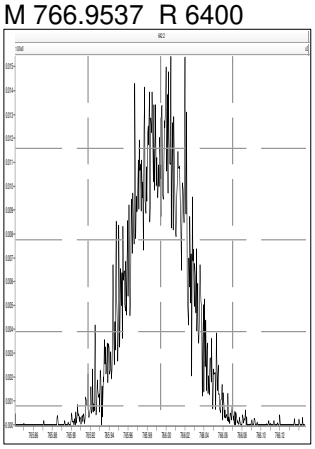
M 742.9537 R 6038



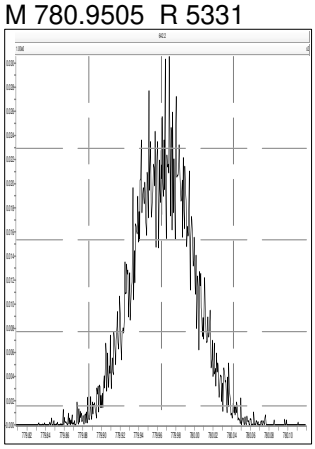
M 754.9537 R 5842



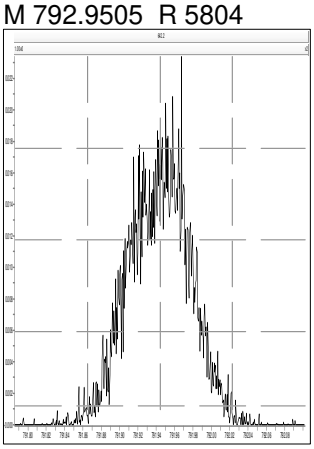
M 766.9537 R 6400



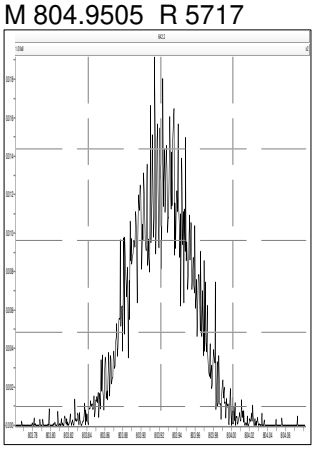
M 780.9505 R 5331



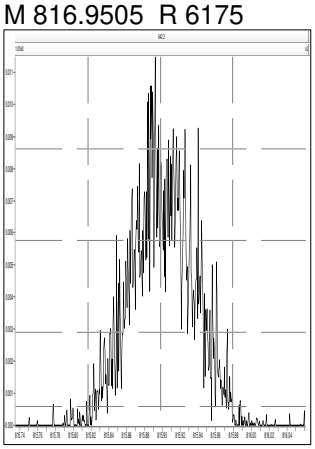
M 792.9505 R 5804



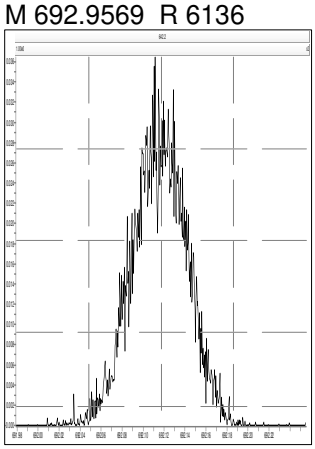
M 804.9505 R 5717



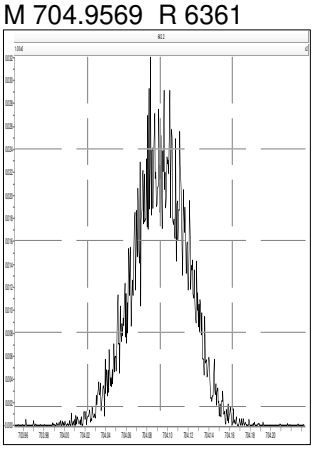
M 816.9505 R 6175



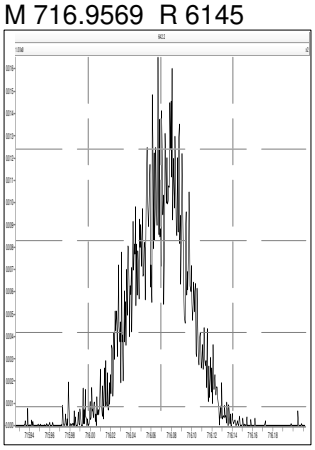
M 692.9569 R 6136



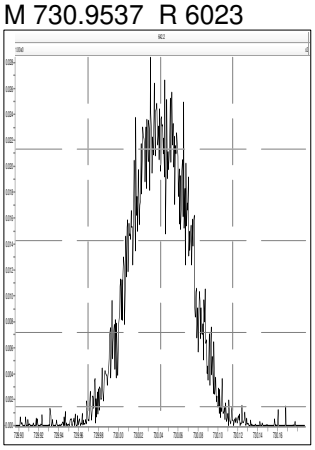
M 704.9569 R 6361



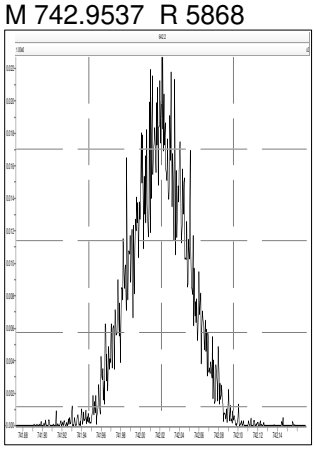
M 716.9569 R 6145



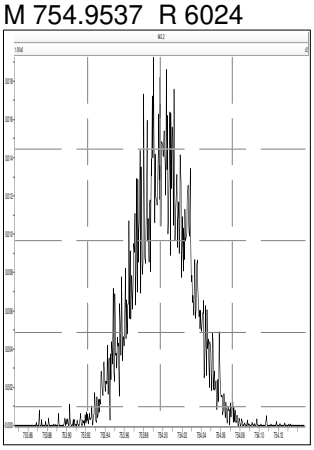
M 730.9537 R 6023



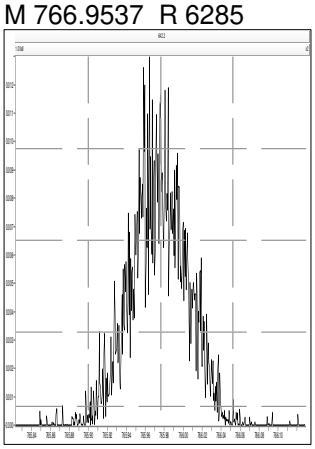
M 742.9537 R 5868



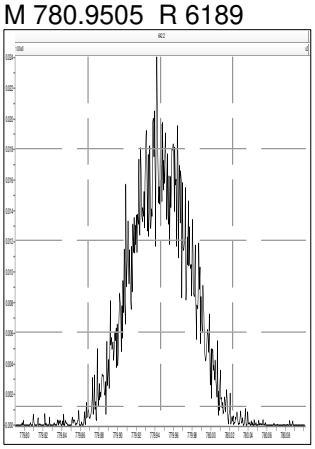
M 754.9537 R 6024



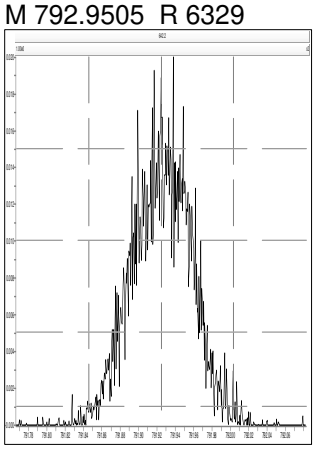
M 766.9537 R 6285



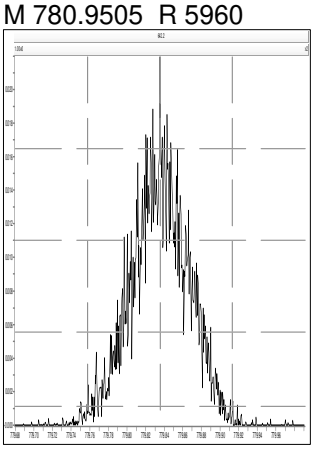
M 780.9505 R 6189



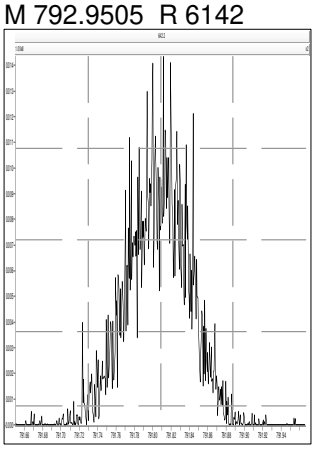
M 792.9505 R 6329



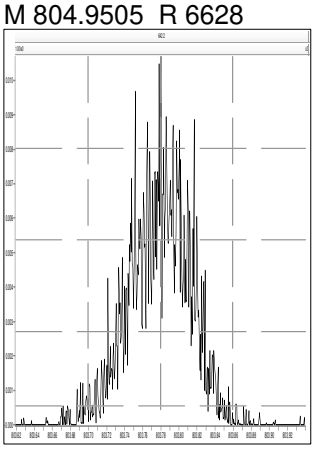
M 780.9505 R 5960



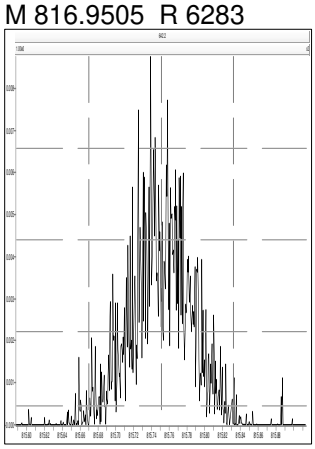
M 792.9505 R 6142



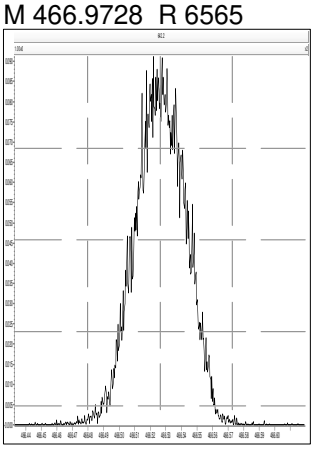
M 804.9505 R 6628



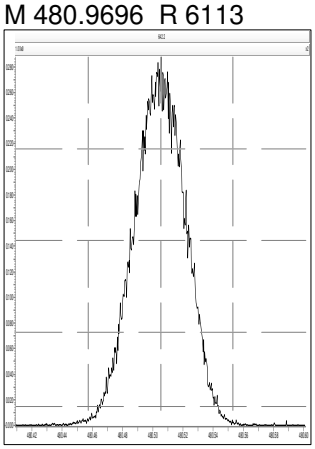
M 816.9505 R 6283



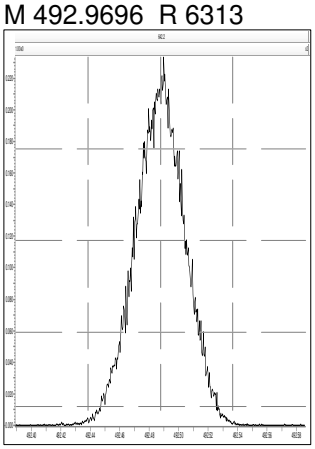
M 466.9728 R 6565



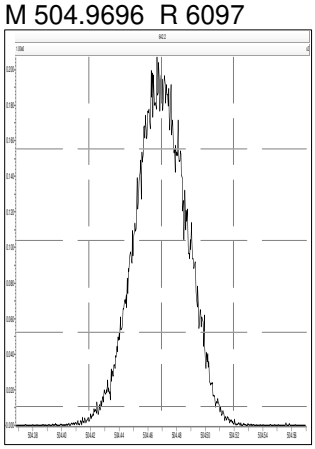
M 480.9696 R 6113



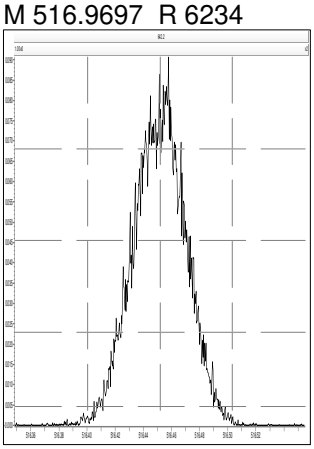
M 492.9696 R 6313



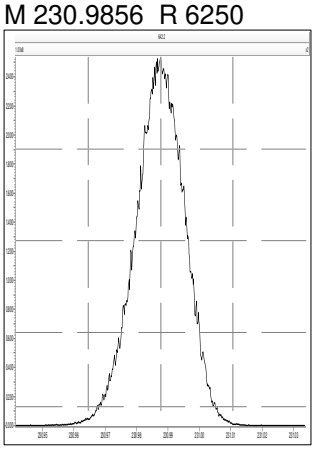
M 504.9696 R 6097



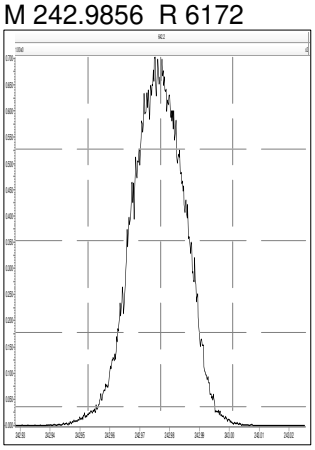
M 516.9697 R 6234



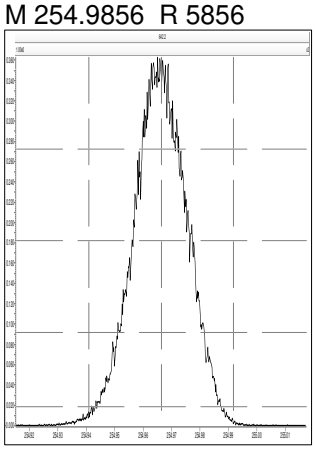
M 230.9856 R 6250



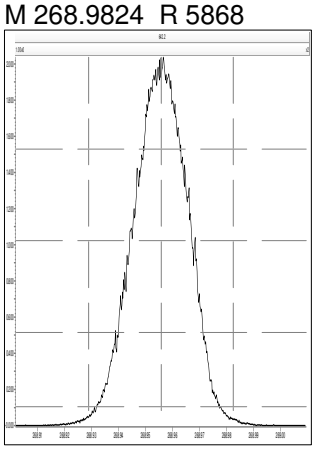
M 242.9856 R 6172



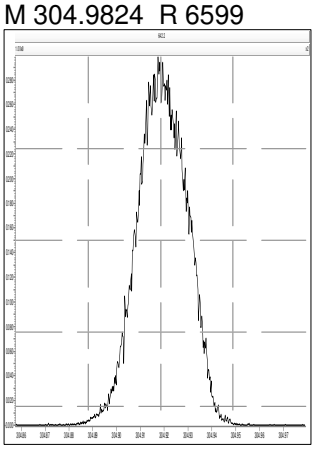
M 254.9856 R 5856



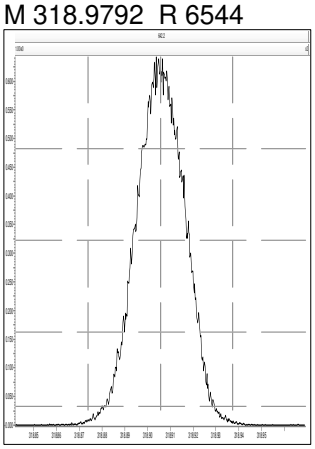
M 268.9824 R 5868



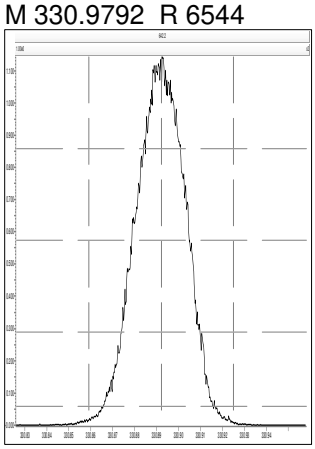
M 304.9824 R 6599



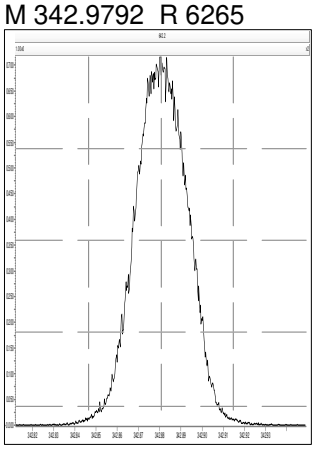
M 318.9792 R 6544



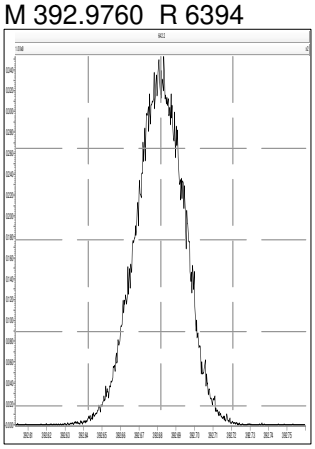
M 330.9792 R 6544



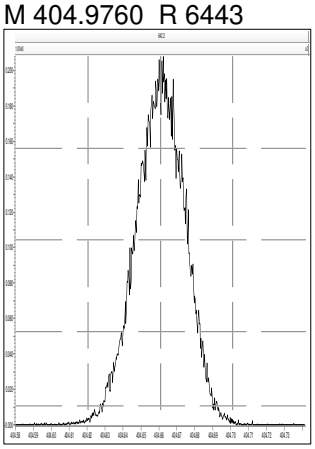
M 342.9792 R 6265



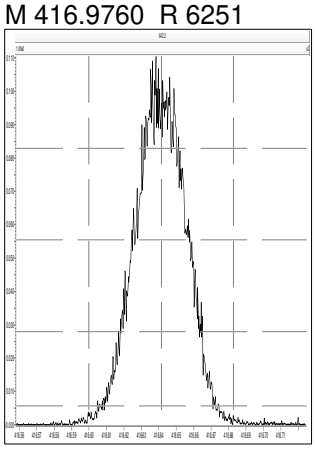
M 392.9760 R 6394



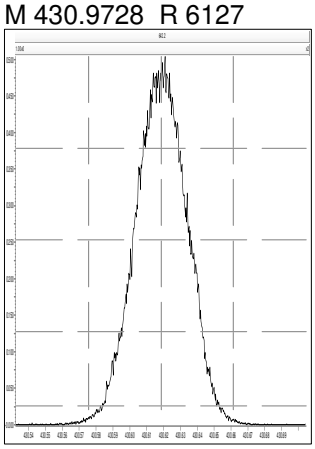
M 404.9760 R 6443



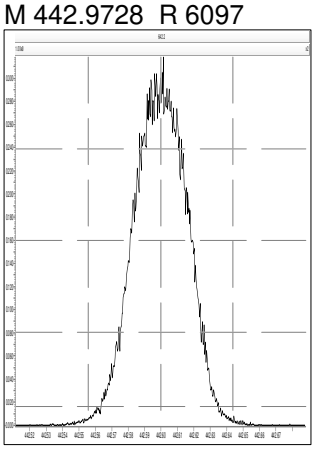
M 416.9760 R 6251



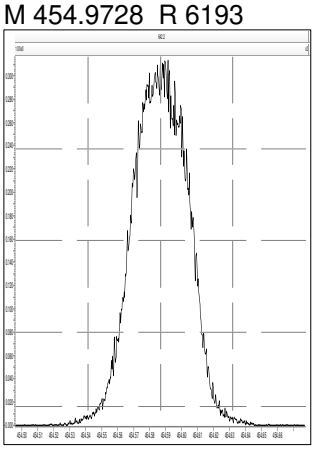
M 430.9728 R 6127



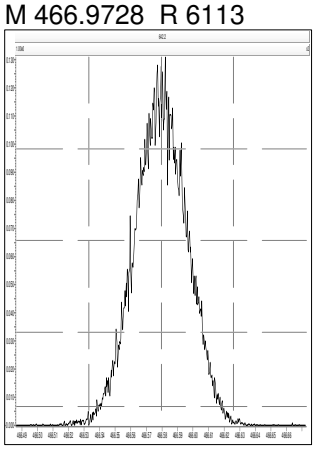
M 442.9728 R 6097



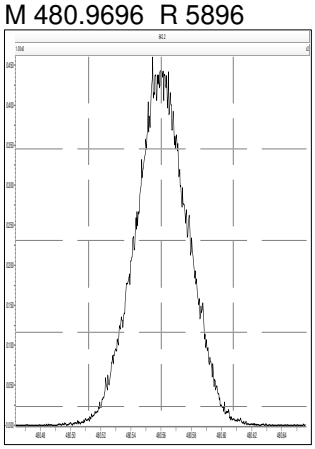
M 454.9728 R 6193



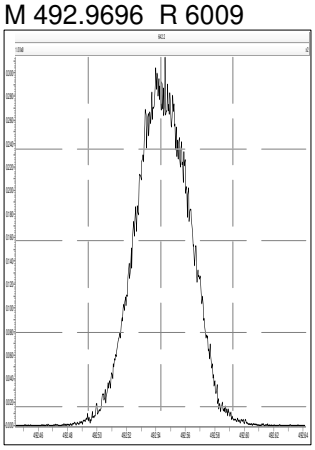
M 466.9728 R 6113



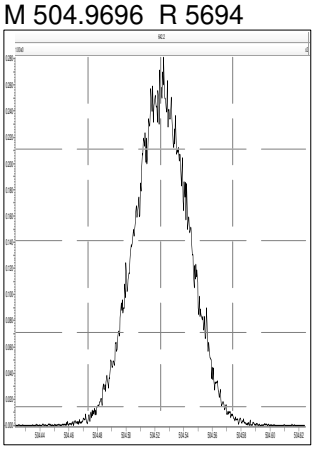
M 480.9696 R 5896



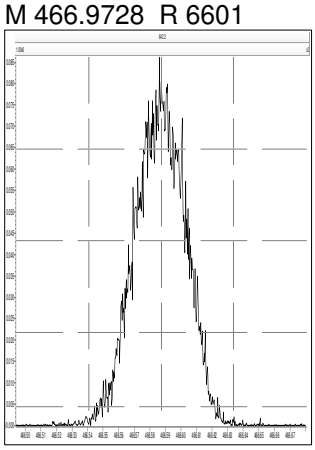
M 492.9696 R 6009



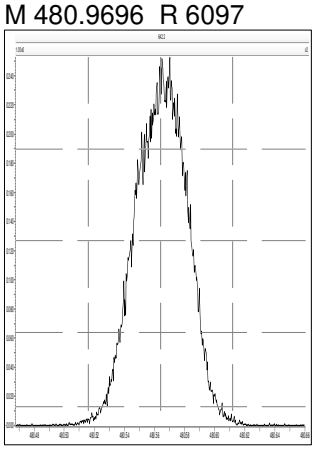
M 504.9696 R 5694



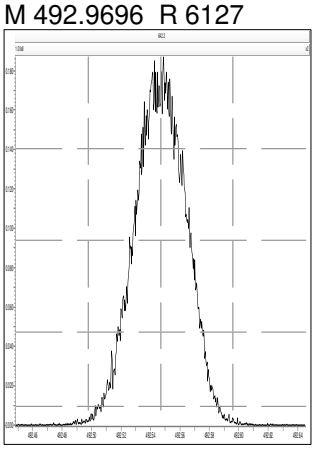
M 466.9728 R 6601



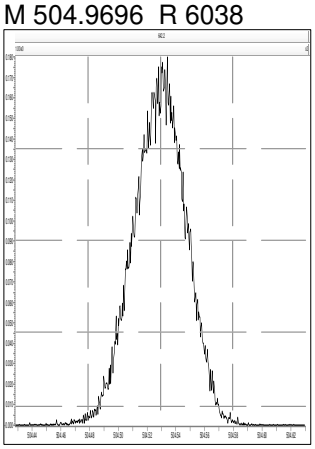
M 480.9696 R 6097



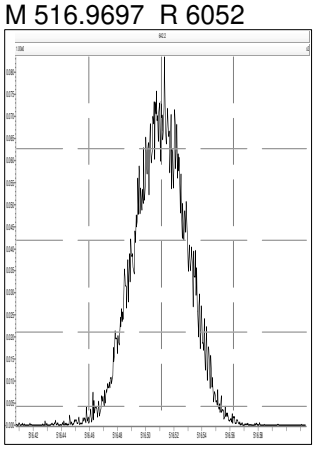
M 492.9696 R 6127



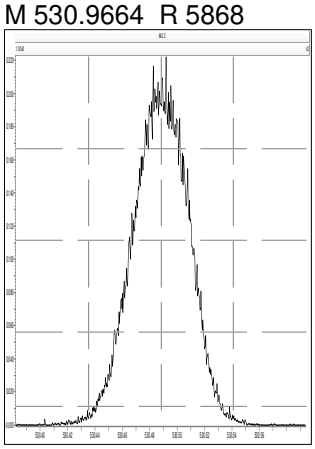
M 504.9696 R 6038



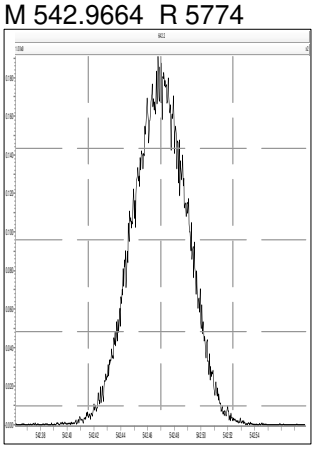
M 516.9697 R 6052



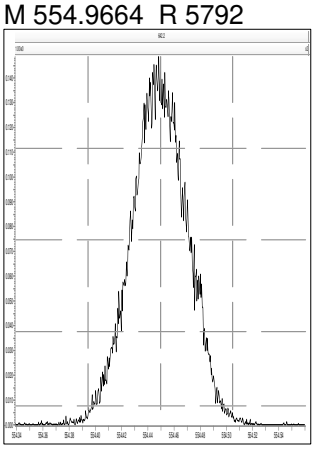
M 530.9664 R 5868



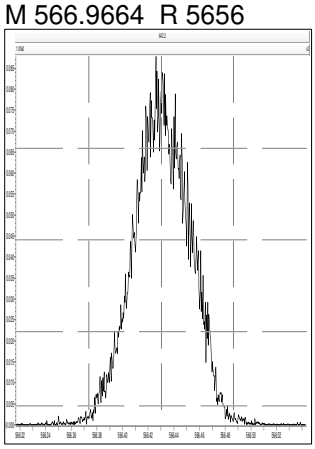
M 542.9664 R 5774



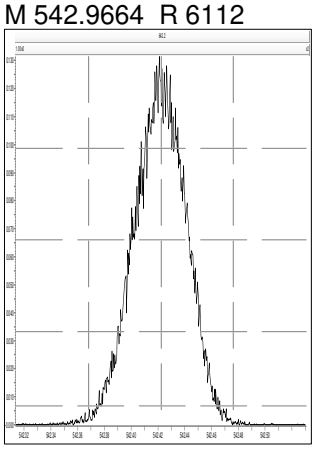
M 554.9664 R 5792



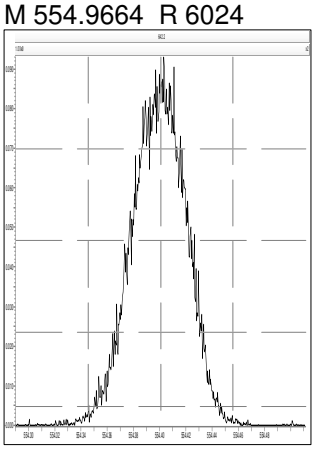
M 566.9664 R 5656



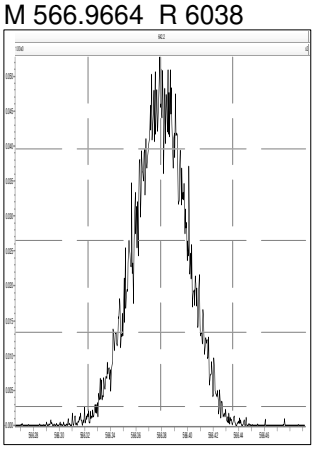
M 542.9664 R 6112



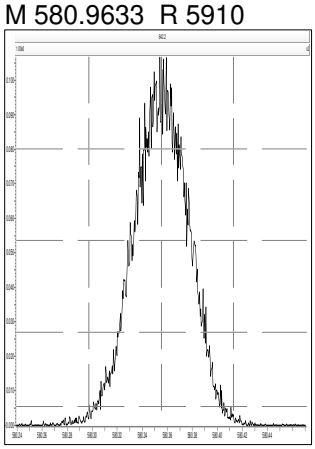
M 554.9664 R 6024



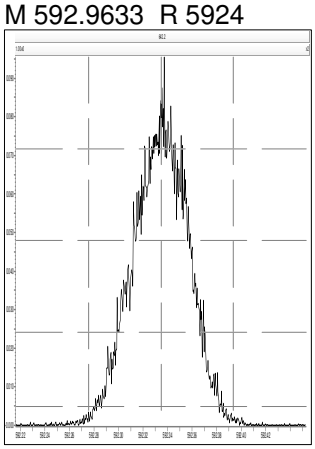
M 566.9664 R 6038



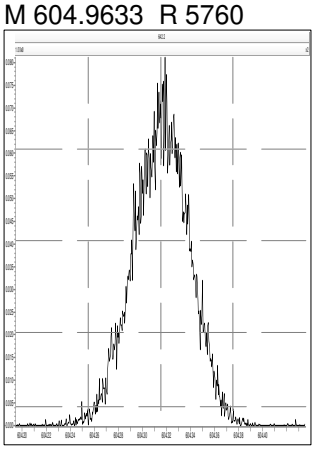
M 580.9633 R 5910



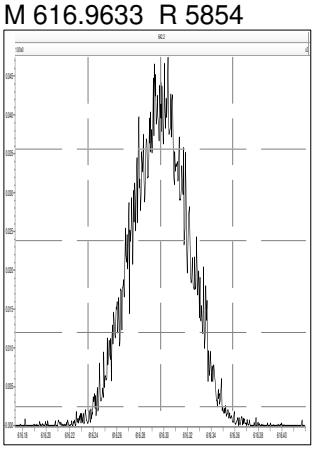
M 592.9633 R 5924



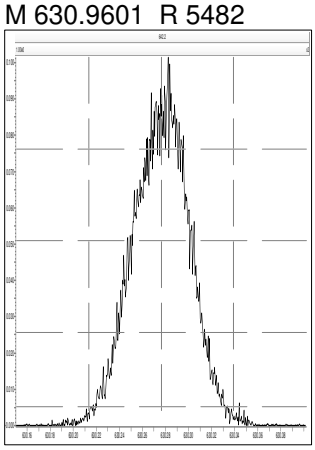
M 604.9633 R 5760



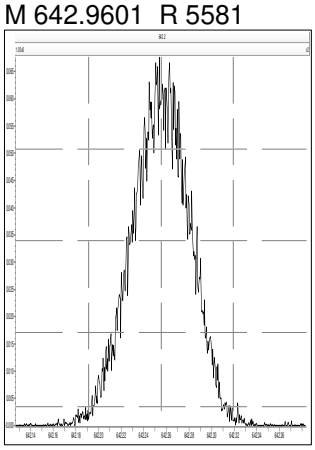
M 616.9633 R 5854



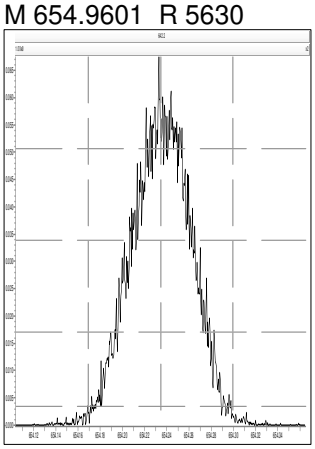
M 630.9601 R 5482



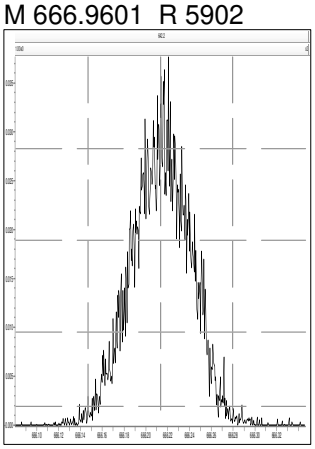
M 642.9601 R 5581



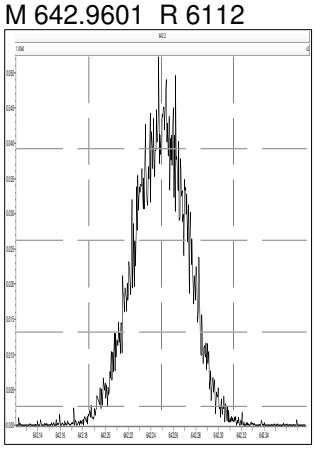
M 654.9601 R 5630



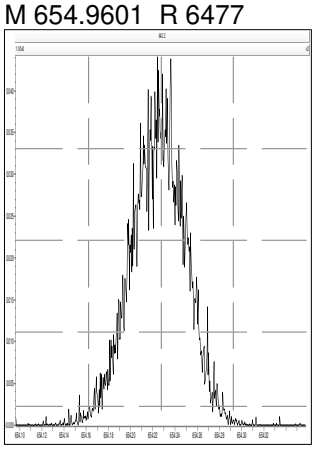
M 666.9601 R 5902



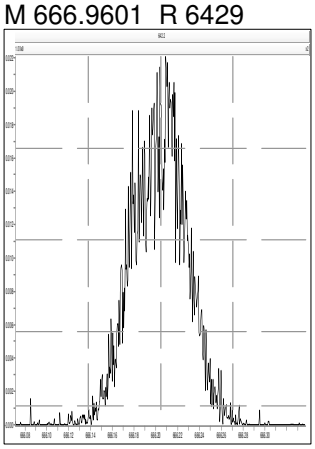
M 642.9601 R 6112



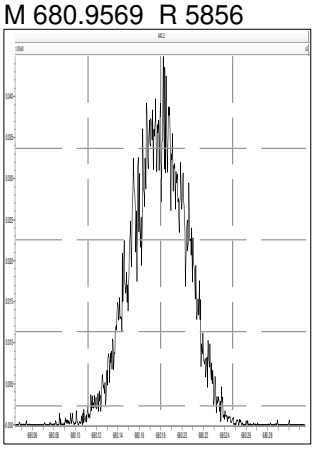
M 654.9601 R 6477



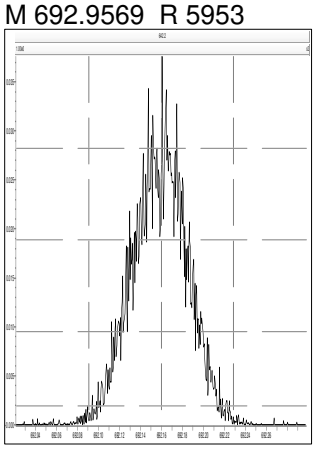
M 666.9601 R 6429



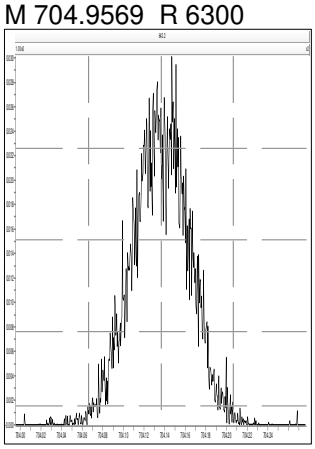
M 680.9569 R 5856



M 692.9569 R 5953



M 704.9569 R 6300



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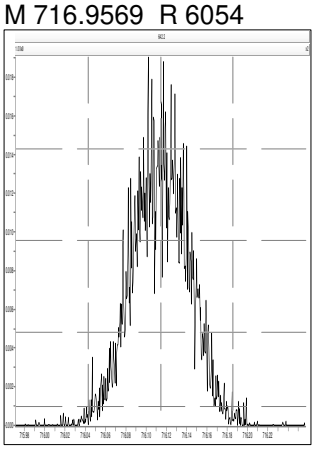

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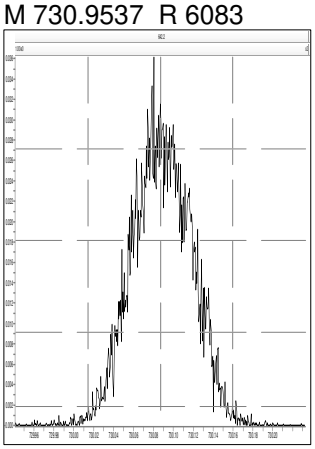
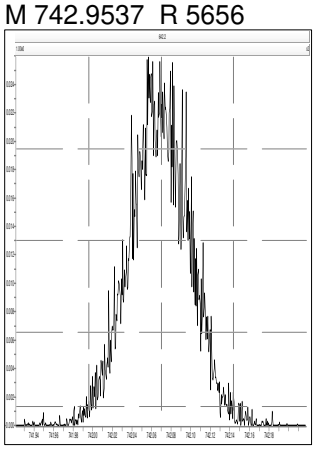
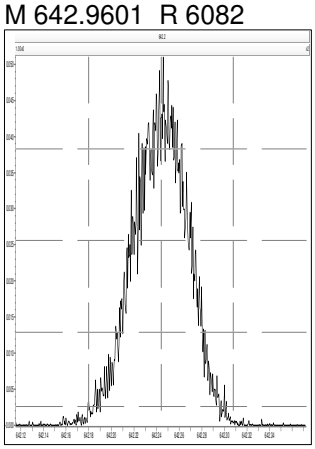


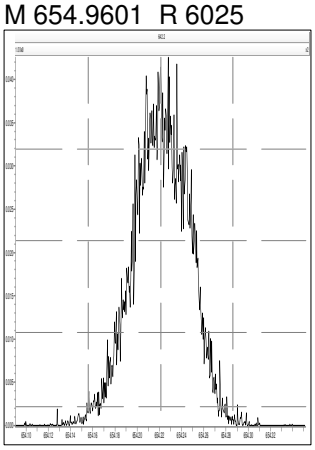
M 742.9537 R 5656



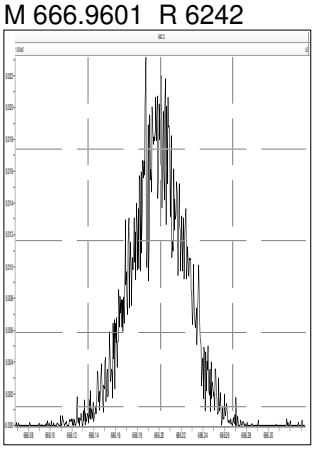
M 642.9601 R 6082



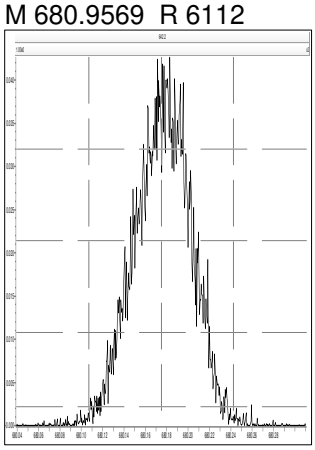
M 654.9601 R 6025



M 666.9601 R 6242



M 680.9569 R 6112



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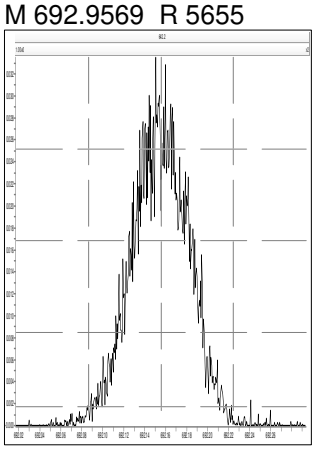
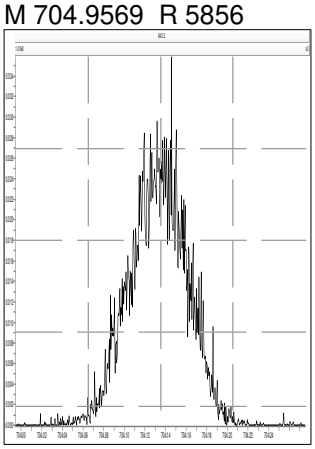
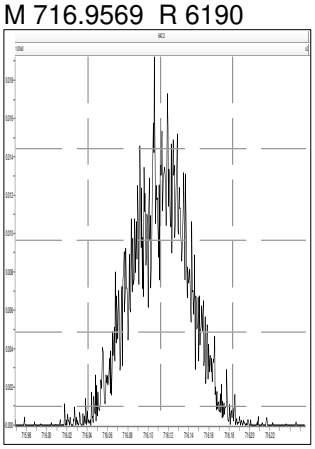


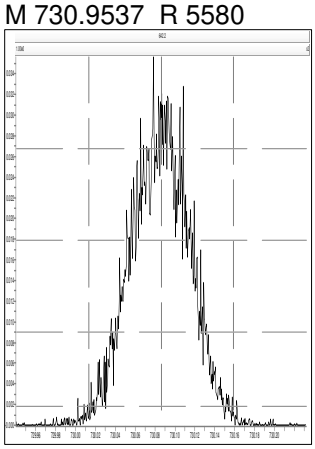
M 704.9569 R 5856



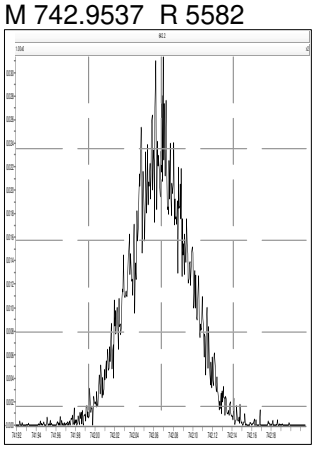
M 716.9569 R 6190



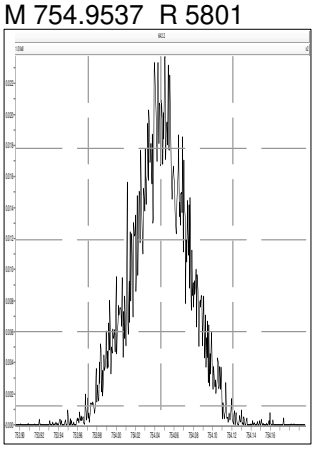
M 730.9537 R 5580



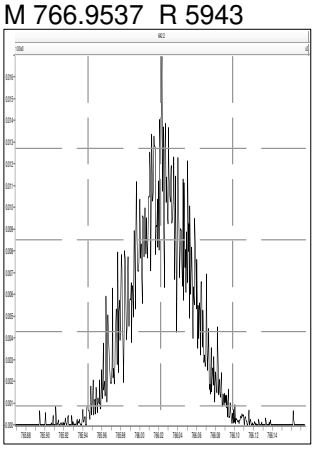
M 742.9537 R 5582



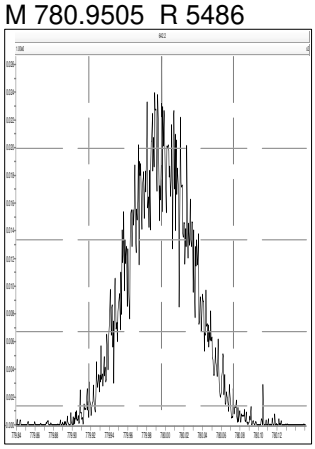
M 754.9537 R 5801



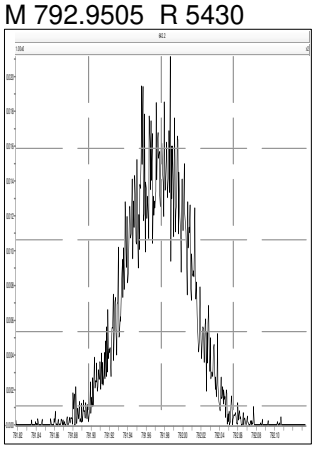
M 766.9537 R 5943



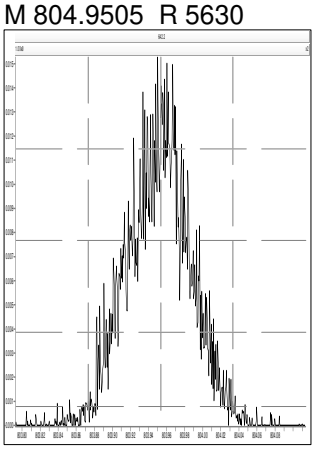
M 780.9505 R 5486



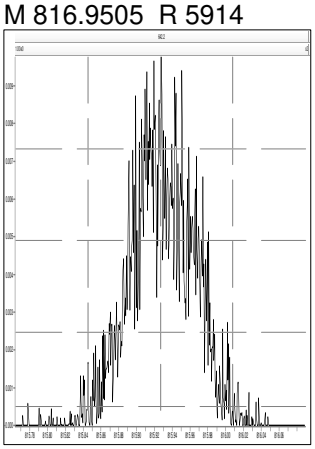
M 792.9505 R 5430



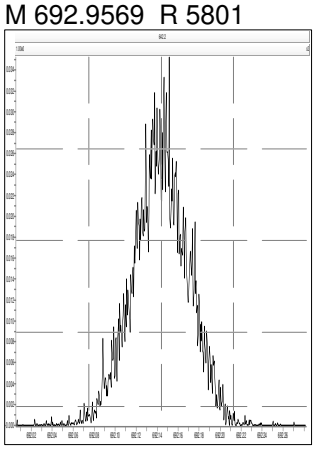
M 804.9505 R 5630



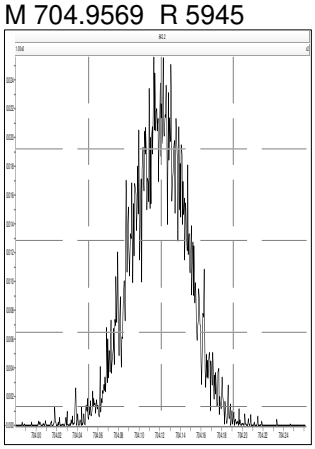
M 816.9505 R 5914



M 692.9569 R 5801



M 704.9569 R 5945



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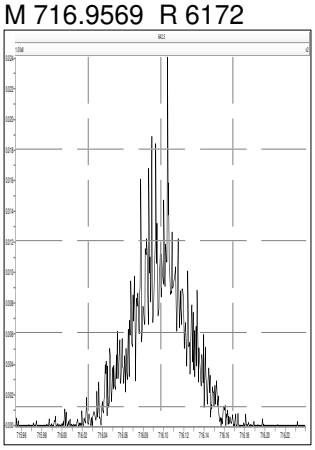
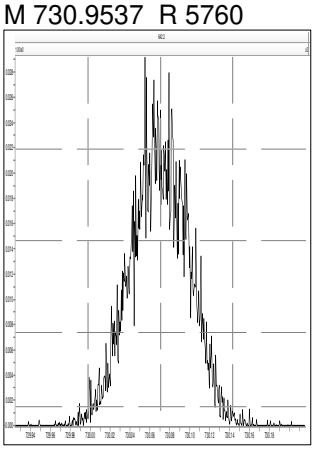
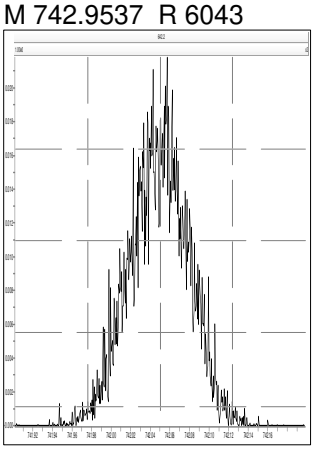


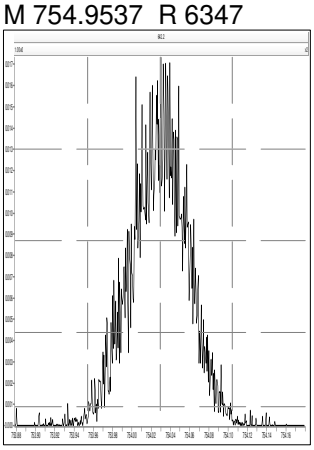
M 730.9537 R 5760



M 742.9537 R 6043



M 754.9537 R 6347



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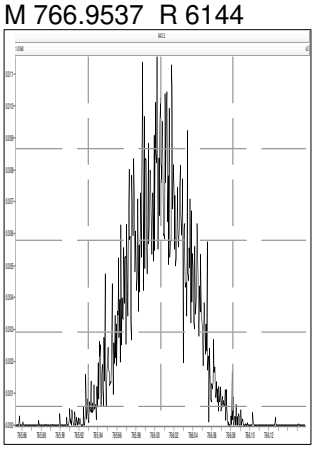
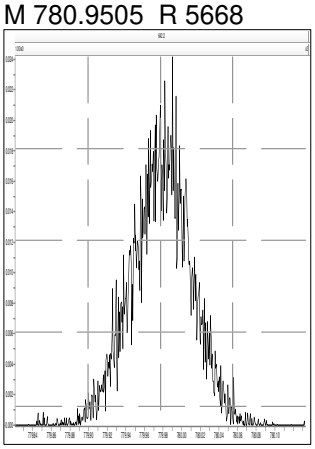
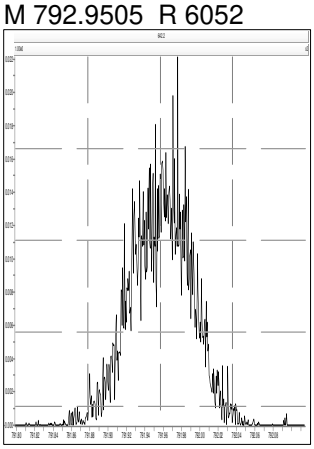


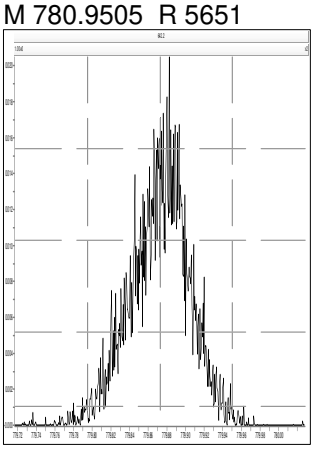
M 780.9505 R 5668



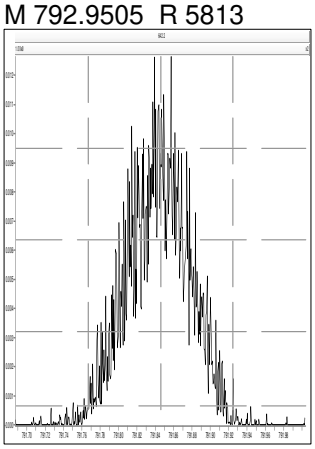
M 792.9505 R 6052



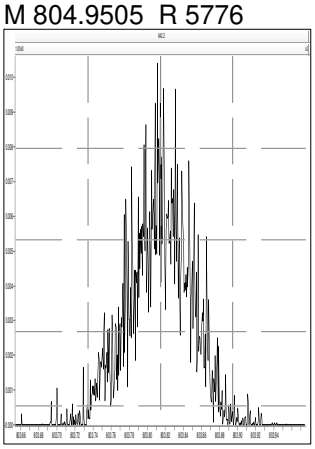
M 780.9505 R 5651



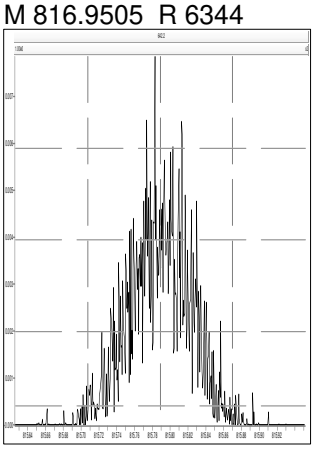
M 792.9505 R 5813



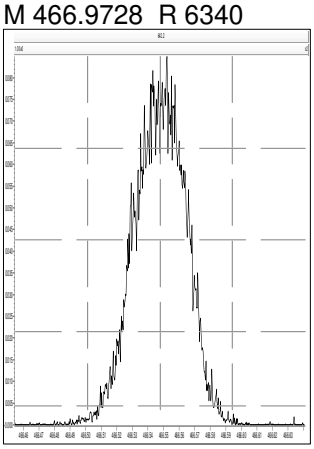
M 804.9505 R 5776



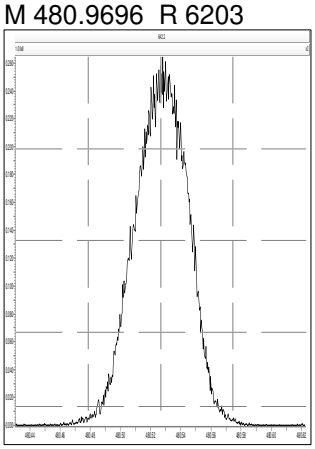
M 816.9505 R 6344



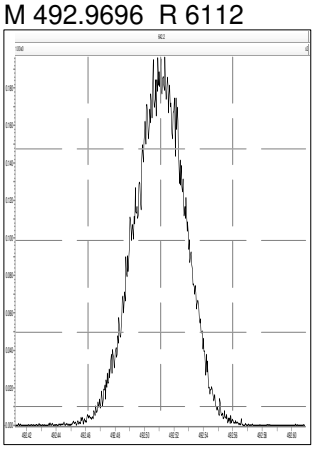
M 466.9728 R 6340



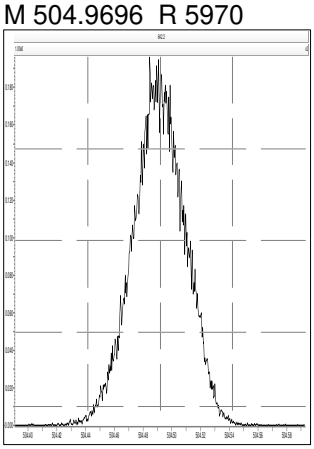
M 480.9696 R 6203



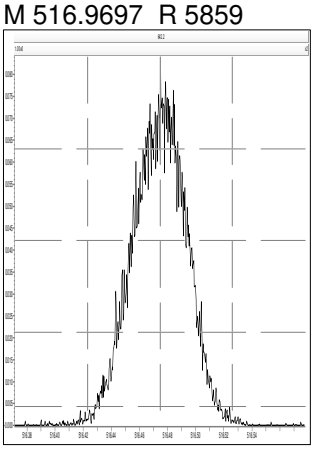
M 492.9696 R 6112



M 504.9696 R 5970



M 516.9697 R 5859



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2	10-210914A02	WG3603574-2 X5	LCS X5	PBDEX_1614	PBDEX_1614	Tray1:15	1.500000
3	10-210914A03	WG3696493-2 X5	LCS X5	PBDEX_1614	PBDEX_1614	Tray1:27	1.500000
4	10-210914A04	TOL1	IB	PBDEX_1614	PBDEX_1614	Tray1:7	1.500000
5	10-210914A05	TOL2	IB	PBDEX_1614	PBDEX_1614	Tray1:8	1.500000
6	10-210914A06	WG3555242-1 X5	MBLA X5	PBDEX_1614	PBDEX_1614	Tray1:29	1.500000
7	10-210914A07	L2623177-2 X5	DIL X5	PBDEX_1614	PBDEX_1614	Tray1:23	1.500000
8	10-210914A08	L2623177-3 X5	DIL X5	PBDEX_1614	PBDEX_1614	Tray1:24	1.500000
9	10-210914A09	L2623177-4 X5	DIL X5	PBDEX_1614	PBDEX_1614	Tray1:25	1.500000
10	10-210914A10	L2625428-2 X 15	DIL X15	PBDEX_1614	PBDEX_1614	Tray1:21	1.500000
11	10-210914A11	L2616632-1 X5	REWORK X5	PBDEX_1614	PBDEX_1614	Tray1:30	1.500000
12	10-210914A12	L2616632-7 X5	REWORK X5	PBDEX_1614	PBDEX_1614	Tray1:31	1.500000
13	10-210914A13	TOL1	IB	PBDEX_1614	PBDEX_1614	Tray1:7	1.500000
14	10-210914A14	L2617843-1 X15	DIL X15	PBDEX_1614	PBDEX_1614	Tray1:32	1.500000
15	10-210914A15	WG3585603-4 X15	DIL X15	PBDEX_1614	PBDEX_1614	Tray1:33	1.500000
16	10-210914A16	H10-21-CCV-0125	PBDEX-CS#3-003	PBDEX_1614	PBDEX_1614	Tray1:1	1.500000
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18	10-210914A18	L2625428-2 X 150	DIL X150	PBDEX_1614	PBDEX_1614	Tray1:34	1.500000
19	10-210914A19	L2617843-1 X 150	DIL X150	PBDEX_1614	PBDEX_1614	Tray1:35	1.500000
20	10-210914A20	L2625428-2 X 75	DILX75	PBDEX_1614	PBDEX_1614	Tray1:36	1.500000
21	10-210914A21	H10-21-CCV-0126	PBDEX-CS#3-003	PBDEX_1614	PBDEX_1614	Tray1:1	1.500000
22	10-210914A22	L2625428-2 X 15	DIL X15	PBDEX_1614	PBDEX_1614	Tray1:21	1.500000
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24	10-210914A24	L2625428-2 X 60	DIL X60	PBDEX_1614	PBDEX_1614	Tray1:37	1.500000
25	10-210914A25	H10-21-CCV-0127	PBDEX-CS#3-003	PBDEX_1614	PBDEX_1614	Tray1:1	1.500000
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VP✓

MR✓

CCV✓

	File Name	Sample ID	File Text	Sample Type	Na Conc A	Na Conc B	Na Conc C	Na Conc D	Na Conc E	Na Conc F	Na Conc G	Na Conc H	ES Conc 1	ES Conc 2	ES Conc 3	ES Conc 4	CS Conc	IS Conc 1	IS Conc 2
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2	10-210914A02	WG3603574-2 X5	LCS X5	QC	800	1200	1600	2000	2400	3200	4000	8000	2000	4000	10000	20000	2000	2000	10000
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4	10-210914A04	TOL1	IB	Analyte	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
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7	10-210914A07	L2623177-2 X5	DIL X5	Analyte	---	---	---	---	---	---	---	---	1000	2000	5000	10000	2000	2000	10000
8	10-210914A08	L2623177-3 X5	DIL X5	Analyte	---	---	---	---	---	---	---	---	1000	2000	5000	10000	2000	2000	10000
9	10-210914A09	L2623177-4 X5	DIL X5	Analyte	---	---	---	---	---	---	---	---	1000	2000	5000	10000	2000	2000	10000
10	10-210914A10	L2625428-2 X 15	DIL X15	Analyte	---	---	---	---	---	---	---	---	2000	4000	10000	20000	2000	2000	10000
11	10-210914A11	L2616632-1 X5	REWORK X5	Analyte	---	---	---	---	---	---	---	---	1000	2000	5000	10000	2000	1000	5000
12	10-210914A12	L2616632-7 X5	REWORK X5	Analyte	---	---	---	---	---	---	---	---	1000	2000	5000	10000	2000	1000	5000
13	10-210914A13	TOL1	IB	Analyte	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
14	10-210914A14	L2617843-1 X15	DIL X15	Analyte	---	---	---	---	---	---	---	---	2000	4000	10000	20000	2000	2000	10000
15	10-210914A15	WG3585603-4 X15	DIL X15	Analyte	---	---	---	---	---	---	---	---	2000	4000	10000	20000	2000	2000	10000
16	10-210914A16	H10-21-CCV-0125	PBDEX-CS#3-003	QC	20	30	40	50	60	80	100	200	50	100	250	500	50	50	250
17	10-210914A17	TOL1	IB	Analyte	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
18	10-210914A18	L2625428-2 X 150	DIL X150	QC	---	---	---	---	---	---	---	---	2000	4000	10000	20000	2000	2000	10000
19	10-210914A19	L2617843-1 X150	DIL X150	QC	---	---	---	---	---	---	---	---	2000	4000	10000	20000	2000	2000	10000
20	10-210914A20	L2625428-2 X 75	DIL X75	QC	---	---	---	---	---	---	---	---	2000	4000	10000	20000	2000	2000	10000
21	10-210914A21	H10-21-CCV-0126	PBDEX-CS#3-003	QC	20	30	40	50	60	80	100	200	50	100	250	500	50	50	250
22	10-210914A23	TOL2	IB	Analyte	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
23	10-210914A24	L2625428-2 X 60	DIL X60	Analyte	---	---	---	---	---	---	---	---	2000	4000	10000	20000	2000	2000	10000
24	10-210914A25	H10-21-CCV-0127	PBDEX-CS#3-003	QC	20	30	40	50	60	80	100	200	50	100	250	500	50	50	250

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Quantify Sample Summary Report **MassLynx MassLynx V4.1 SCN 901**

Dataset: I:\Organics Instrument\HIGHRES GCMS Completed Results Files\HR-10\2021\2109\10-210914A-Q.qld

Last Altered: Friday, September 17, 2021 11:47:47 Eastern Daylight Time
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Method: C:\MassLynx\PBDE.PRO\MethDB\PBDEX-DB5-1-210913B.mdb 14 Sep 2021 11:10:04
Calibration: C:\MassLynx\PBDE.PRO\CurveDB\10-210913B-ICAL-PBDE.cdb 14 Sep 2021 11:07:06

Name: 10-210914A01, Date: 14-Sep-2021, Time: 17:22:19, ID: WG3603564-2 X5, Description: LCS X5, Vial: Tray1:14

	Target Analyte	#Hom	Total Area	Ion1 Area	Ion2 Area	Ra	Ra Fail=YES	RT	RRT	RT LCL	RT UCL	Conc.	%Rec	Mod.Comment	Noise 1	Noise 2
1	*BDE-1														32922	45577
2	BDE-2														32922	45577
3	BDE-3														32922	45577
4	*BDE-10		825.939	255	571	0.45	NO	6.34	0.89	6.31	6.38	92.153004	11.5		506	995
5	BDE-7		2107.255	708	1400	0.51	NO	6.72	0.94	6.69	6.76	233.55862	29.2		506	995
6	BDE-8/BDE-11		18951.501	6195	12757	0.49	NO	6.90	0.96	6.86	6.93	1464.6136	91.5		506	995
7	BDE-12/BDE-13		41432.539	21926	19506	1.12	YES	6.99	0.98	6.96	7.02	2770.7002	173.2		506	995
8	BDE-15		13913.265	4490	9423	0.48	NO	7.15	1.00	7.11	7.18	784.49040	98.1		506	995
9	*BDE-30		2034.007	1015	1019	1.00	NO	7.85	0.90	7.82	7.88	304.47750	38.1		954	1013
10	BDE-32		8172.957	4078	4095	1.00	NO	8.29	0.95	8.26	8.33	893.79476	111.7		954	1013
11	BDE-17/BDE-25		11443.933	5676	5767	0.98	NO	8.46	0.97	8.43	8.49	1631.6168	102.0		954	1013
12	BDE-28/BDE-33		11610.725	5771	5839	0.99	NO	8.69	1.00	8.66	8.73	1590.0434	99.4		954	1013
13	BDE-35		7406.541	3608	3799	0.95	NO	8.84	1.02	8.80	8.87	734.66773	91.8		954	1013
14	BDE-37		7138.249	3471	3667	0.95	NO	9.04	1.04	9.00	9.07	707.77797	88.5		954	1013
15	*PBEB		7380.482	3784	3596	1.05	NO	9.04	0.90	9.00	9.07	685.17137	85.6		502	333
16	*PBB-52		9488.955	5641	3848	1.47	NO	9.14	0.91	9.10	9.17	871.97619	109.0		769	542
17	*HBB		6901.063	1915	4986	0.38	NO	10.02	1.00	9.99	10.05	764.64351	95.6		354	370
18	*BDE-75		6306.771	2480	3826	0.65	NO	10.08	0.95	10.05	10.12	913.14227	114.1	EG210917MB	502	596
19	BDE-51		7395.175	3048	4347	0.70	NO	10.15	0.96	10.11	10.18	902.59210	112.8	EG210917MB	502	596
20	BDE-49		3848.779	1514	2334	0.65	NO	10.25	0.97	10.21	10.28	737.38254	92.2		502	596
21	BDE-71		4350.361	1769	2581	0.69	NO	10.32	0.98	10.29	10.35	811.14568	101.4		502	596
22	BDE-47		5477.030	2162	3315	0.65	NO	10.58	1.00	10.55	10.61	811.90774	101.5		502	596
23	BDE-79		8239.983	3295	4945	0.67	NO	10.74	1.02	10.71	10.78	1009.3101	126.2	EG210917MB	502	596
24	BDE-66		5048.703	1892	3156	0.60	NO	10.87	1.03	10.83	10.90	1053.1349	131.6	EG210917MB	502	596
25	BDE-77		5608.389	2174	3435	0.63	NO	11.35	1.00	11.32	11.38	714.22527	89.3	EG210917MB	502	596
26	*PBB-101		15373.687	7680	7694	1.00	NO	11.48	1.01	11.44	11.51	1584.6851	99.0		483	553
27	*BDE-100		9831.658	4989	4843	1.03	NO	12.22	1.00	12.19	12.25	1239.5394	103.3		538	582
28	BDE-119/BDE-120		8543.843	4305	4239	1.02	NO	12.40	1.02	12.36	12.43	2541.1551	105.9		538	582
29	BDE-99		5256.836	2658	2599	1.02	NO	12.73	1.00	12.70	12.76	1132.9678	94.4		538	582
30	BDE-116		1518.467	808	711	1.14	NO	12.88	1.01	12.85	12.91	693.59757	57.8		538	582
31	BDE-83		2952.714	1429	1523	0.94	NO	13.02	1.02	12.98	13.05	1196.3602	99.7		538	582
32	BDE-118		3415.338	1679	1737	0.97	NO	13.14	1.03	13.11	13.17	1214.6055	101.2		538	582
33	BDE-85		3775.366	1811	1964	0.92	NO	13.63	0.99	13.59	13.66	1162.2402	96.9	EG210917MB	538	582
34	BDE-126		5181.618	2682	2500	1.07	NO	13.80	1.00	13.77	13.83	1251.3126	104.3	EG210917MB	538	582

Quantify Sample Summary Report **MassLynx MassLynx V4.1 SCN 901**

Dataset: I:\Organics Instrument\HIGHRES GCMS Completed Results Files\HR-10\2021\2109\10-210914A-Q.qld

Last Altered: Friday, September 17, 2021 11:47:47 Eastern Daylight Time
Printed: Friday, September 17, 2021 12:16:48 Eastern Daylight Time

Name: 10-210914A01, Date: 14-Sep-2021, Time: 17:22:19, ID: WG3603564-2 X5, Description: LCS X5, Vial: Tray1:14

	Target Analyte	#Hom	Total Area	Ion1 Area	Ion2 Area	Ra	Ra Fail=YES	RT	RRT	RT LCL	RT UCL	Conc.	%Rec	Mod.Comment	Noise 1	Noise 2
35	BDE-105		3247.992	1652	1596	1.03	NO	13.95	1.01	13.92	13.98	1143.8698	95.3	EG210917MB	538	582
36	*PBB-153		11157.630	6399	4759	1.34	NO	14.11	1.00	14.08	14.14	1611.8129	100.7		440	668
37	*BDE-155		13820.053	7926	5894	1.34	NO	13.77	0.97	13.74	13.81	1609.2294	100.6		749	347
38	BDE-154		12242.319	7070	5172	1.37	NO	14.16	1.00	14.13	14.19	1621.8047	101.4		749	347
39	*BDE-153		4283.518	2531	1753	1.44	NO	14.90	1.00	14.86	14.93	1494.9962	93.4		1061	554
40	BDE-140		6213.655	3372	2841	1.19	NO	15.36	1.01	15.33	15.40	1604.0815	100.3		1061	554
41	BDE-138/BDE-166		6049.973	3716	2334	1.59	YES	15.89	1.07	15.86	15.92	2833.0259	88.5	EG210917MB	1061	554
42	BDE-156		1541.450	967	574	1.68	YES	16.23	1.09	16.19	16.26	1116.6082	69.8	EG210917MB	1061	554
43	BDE-128		1910.859	1047	864	1.21	NO	16.86	0.99	16.83	16.89	1211.1000	75.7		1061	554
44	*BDE-184		5696.294	2777	2919	0.95	NO	16.66	0.98	16.63	16.69	2310.0287	115.5		331	463
45	BDE-183		3440.387	1683	1757	0.96	NO	17.03	1.00	17.00	17.07	2073.7098	103.7		331	463
46	BDE-191		2092.863	1072	1021	1.05	NO	17.60	1.03	17.56	17.63	2041.4920	102.1		331	463
47	BDE-181		1536.882	769	768	1.00	NO	18.15	1.01	18.11	18.18	1479.4866	74.0		331	463
48	BDE-190		748.739	382	367	1.04	NO	18.30	1.02	18.26	18.33	1066.8901	53.3		331	463
49	*PBB-180		2486.378	1166	1321	0.88	NO	17.14	0.96	17.11	17.17	1618.8217	101.2	EG210917MB	775	359
50	*BDE-197		1782.855	859	924	0.93	NO	19.51	1.00	19.48	19.55	2218.4026	110.9	EG210917MB	419	190
51	BDE-203		964.356	457	508	0.90	NO	19.79	1.01	19.76	19.83	1649.1687	82.5	EG210917MB	419	190
52	BDE-196		1152.408	562	590	0.95	YES	19.92	1.02	19.89	19.95	1718.1308	85.9	EG210917MB	419	190
53	*PBB-194		624.044	315	309	1.02	YES	19.99	1.03	19.96	20.03	1195.2836	74.7		219	294
54	*BDE-208		1059.296	545	514	1.06	NO	21.25	0.99	21.22	21.28	5634.4253	140.9		224	347
55	BDE-207		986.564	507	480	1.06	NO	21.37	1.00	21.33	21.40	4529.5996	113.2		224	347
56	BDE-206		601.514	313	289	1.08	NO	21.64	1.01	21.60	21.67	3654.5971	91.4	EG210917MB	224	347
57	*PBB-206														177	597
58	*PBB-209														250	158
59	*BDE-209														134	108
60	*DBDPE														234	350
61	13C12-BDE-3		5470.321	2787	2683	1.04	NO	5.11	0.48	5.08	5.15	65.703325	3.3		1005	2060
62	13C12-BDE-15		41840.959	13429	28412	0.47	NO	7.15	0.67	7.11	7.18	921.23963	46.1		2643	5685
63	13C12-BDE-28		21842.568	10416	11427	0.91	NO	8.69	0.81	8.66	8.73	1056.1967	52.8		1260	753
64	13C6-HBB		17234.819	12670	4564	2.78	NO	10.02	0.93	9.99	10.05	1157.7878	57.9		565	733
65	13C12-BDE-47		16075.678	10007	6068	1.65	NO	10.58	0.98	10.55	10.61	1120.7168	56.0		819	687
66	13C12-BDE-77		19836.567	12437	7400	1.68	NO	11.34	1.06	11.31	11.37	1312.5391	65.6	EG210917MB	819	687
67	13C12-BDE-100		20795.875	10491	10305	1.02	NO	12.21	0.81	12.18	12.24	1556.2001	77.8		904	552
68	13C12-BDE-99		11263.403	5704	5559	1.03	NO	12.72	0.84	12.68	12.75	1437.4676	71.9		904	552
69	13C12-BDE-126		10574.640	5400	5174	1.04	NO	13.79	0.91	13.75	13.82	1199.3807	60.0		904	552
70	13C12-BDE-154		16502.044	9769	6733	1.45	NO	14.16	0.93	14.13	14.19	1528.4167	76.4		948	636
71	13C12-BDE-153		4942.955	3003	1940	1.55	NO	14.90	0.98	14.86	14.93	1353.6954	67.7		1035	562

Quantify Sample Summary Report **MassLynx MassLynx V4.1 SCN 901**

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Last Altered: Friday, September 17, 2021 11:47:47 Eastern Daylight Time
Printed: Friday, September 17, 2021 12:16:48 Eastern Daylight Time

Name: 10-210914A01, Date: 14-Sep-2021, Time: 17:22:19, ID: WG3603564-2 X5, Description: LCS X5, Vial: Tray1:14

	Target Analyte	#Hom	Total Area	Ion1 Area	Ion2 Area	Ra	Ra Fail=YES	RT	RRT	RT LCL	RT UCL	Conc.	%Rec	Mod.Comment	Noise 1	Noise 2
72	13C12-BDE-183		4442.789	2227	2215	1.01	NO	17.02	0.95	16.99	17.06	1889.5191	94.5		433	383
73	13C12-BDE-197		4086.594	1764	2322	0.76	NO	19.50	1.09	19.47	19.54	2252.4294	56.3		379	249
74	13C12-BDE-207		2395.276	1140	1255	0.91	NO	21.37	0.99	21.33	21.40	9350.5751	93.5	EG210917MB	788	267
75	13C12-BDE-209														190	236
76	13C14-DBDPE														484	882
77	13C12-BDE-138 (CL)		4158.381	2492	1667	1.49	NO	15.85	1.05	15.82	15.89	1352.4685	67.6		1035	562
78	13C12-BDE-79 (IS)		32943.170	20249	12695	1.60	NO	10.74	0.71	10.71	10.78	3.7762002	0.2		819	687
79	13C12-BDE-139 (IS)		8589.376	4934	3655	1.35	NO	15.15	0.00	15.12	15.19	3.4083533	0.2		1035	562
80	13C12-BDE-180 (IS)		2224.950	1205	1020	1.18	NO	17.90	1.18	17.87	17.93	1.8931574	0.1	EG210917MB	433	383
81	13C12-BDE-206 (IS)		1928.878	993	936	1.06	NO	21.63	1.43	21.59	21.66	1.3359889	0.0		788	267
82	Total MoF1			0											32922	
83	Total DiF2	5		33573								5345.5158			506	
84	Total TriF3	6		23619								5862.3782			954	
85	Total PBEBF3	1		3784								685.17137			502	
86	Total TePBBF3	1		5641								871.97619			769	
87	Total HBBF4	1		1915								764.64351			354	
88	Total TetraF4	8		18335								6952.8406			502	
89	Total PePBBF4	1		7680								1584.6851			483	
90	Total PentaF5	9		22013								11575.648			538	
91	Total PBB-153	1		6399								1611.8129			440	
92	Total HexaF5	2		14997								3231.0341			749	
93	Total HexaF6	5		11633								8259.8118			1061	
94	Total HeptaF6	5		6683								8971.6072			331	
95	Total PBB-180	1		1166								1618.8217			775	
96	Total OctaF7	3		1878								5585.7020			419	
97	Total PBB-194	1		315								1195.2836			219	
98	Total NonaF8	3		1365								13818.622			224	
99	Total PBB-206			0											177	
100	Total PBB-209			0											250	
101	Total DecaF9			0											134	
102	Total DBDPEF10															
103	Total 13CMoF1	1		2787								65.703325			1005	
104	Total 13CDiF2	1		13429								921.23963			2643	
105	Total 13CTriF3	1		10416								1056.1967			1260	
106	Total 13CHBBF4	1		12670								1157.7878			565	
107	Total 13CTetraF4	3		42693								2437.0322			819	
108	Total 13CPentaF5	3		21596								4193.0485			904	

Quantify Sample Summary Report **MassLynx MassLynx V4.1 SCN 901**

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Last Altered: Friday, September 17, 2021 11:47:47 Eastern Daylight Time
Printed: Friday, September 17, 2021 12:16:48 Eastern Daylight Time

Name: 10-210914A01, Date: 14-Sep-2021, Time: 17:22:19, ID: WG3603564-2 X5, Description: LCS X5, Vial: Tray1:14

	Target Analyte	#Hom	Total Area	Ion1 Area	Ion2 Area	Ra	Ra Fail=YES	RT	RRT	RT LCL	RT UCL	Conc.	%Rec	Mod.Comment	Noise 1	Noise 2
109	Total 13CHexaF5	1		9769								1528.4167			948	
110	Total 13CHexaF6	3		10428								2709.5722			1035	
111	Total 13CHeptaF6	2		3433								1891.4122			433	
112	Total 13COctaF7	1		1764								2252.4294			379	
113	Total 13CNonaF8	2		2133								9351.9111			788	
114	Total 13CDecaF9			0											190	
115	Total 13CDBDPEF10															
116	Lockmass F1			0											363958	
117	Lockmass F2			0											781184	
118	Lockmass F3			0											430633	
119	Lockmass F4			0											149861	
120	Lockmass F5			0											83630	
121	Lockmass F6			0											34266	
122	Lockmass F7			0											17474	
123	Lockmass F8			0											22908	
124	Lockmass F9			0											22598	
125	Lockmass F10															

Quantify Sample Summary Report **MassLynx MassLynx V4.1 SCN 901**

Dataset: I:\Organics Instrument\HIGHRES GCMS Completed Results Files\HR-10\2021\2109\10-210914A-Q.qld

Last Altered: Friday, September 17, 2021 11:47:47 Eastern Daylight Time
Printed: Friday, September 17, 2021 12:16:48 Eastern Daylight Time

Name: 10-210914A16, Date: 15-Sep-2021, Time: 02:04:40, ID: H10-21-CCV-0125, Description: PBDEX-CS#3-003, Vial: Tray1:1

	Target Analyte	#Hom	Total Area	Ion1 Area	Ion2 Area	Ra	Ra Fail=YES	RT	RRT	RT LCL	RT UCL	Conc.	%Rec	Mod.Comment	Noise 1	Noise 2
1	*BDE-1		536284.281	269010	267274	1.01	NO	4.90	0.96	4.87	4.94	19.326310	96.6		30754	32497
2	BDE-2		837467.531	416358	421110	0.99	NO	5.01	0.98	4.97	5.04	20.540514	102.7		30754	32497
3	BDE-3		981469.407	489813	491656	1.00	NO	5.11	1.00	5.08	5.15	20.031205	100.2		30754	32497
4	*BDE-10		304550.148	101135	203415	0.50	NO	6.33	0.89	6.30	6.37	22.084512	110.4		1201	731
5	BDE-7		307957.086	101665	206292	0.49	NO	6.71	0.94	6.67	6.74	22.183828	110.9		1201	731
6	BDE-8/BDE-11		864437.219	287647	576790	0.50	NO	6.88	0.96	6.85	6.91	43.419057	108.5		1201	731
7	BDE-12/BDE-13		1002449.9...	330053	672397	0.49	NO	6.99	0.98	6.96	7.02	43.569057	108.9		1201	731
8	BDE-15		565336.563	187410	377926	0.50	NO	7.14	1.00	7.11	7.17	20.717298	103.6		1201	731
9	*BDE-30		199119.328	99692	99427	1.00	NO	7.84	0.90	7.80	7.87	22.054106	110.3		3577	1515
10	BDE-32		273758.625	137517	136241	1.01	NO	8.28	0.96	8.25	8.32	22.151323	110.8		3577	1515
11	BDE-17/BDE-25		410743.047	205665	205079	1.00	NO	8.45	0.97	8.42	8.48	43.329768	108.3		3577	1515
12	BDE-28/BDE-33		405312.001	205310	200002	1.03	NO	8.67	1.00	8.64	8.71	41.068835	102.7		3577	1515
13	BDE-35		295754.172	148714	147040	1.01	NO	8.83	1.02	8.79	8.86	21.705995	108.5		3577	1515
14	BDE-37		293188.750	145962	147227	0.99	NO	9.02	1.04	8.98	9.05	21.509283	107.5		3577	1515
15	*PBEB		277225.079	141541	135684	1.04	NO	9.03	0.90	8.99	9.06	23.494541	117.5		658	460
16	*PBB-52		268284.961	162126	106159	1.53	NO	9.13	0.91	9.09	9.16	22.506218	112.5		873	578
17	*HBB		208306.839	58278	150029	0.39	NO	10.01	1.00	9.98	10.04	21.070095	105.4		563	557
18	*BDE-75		163578.867	65252	98327	0.66	NO	10.07	0.95	10.04	10.10	19.255529	96.3		998	1081
19	BDE-51		213978.227	86024	127954	0.67	NO	10.13	0.96	10.10	10.17	21.232910	106.2		998	1081
20	BDE-49		136487.739	54151	82337	0.66	NO	10.23	0.97	10.20	10.27	21.259859	106.3		998	1081
21	BDE-71		143317.793	58035	85283	0.68	NO	10.29	0.98	10.26	10.33	21.725538	108.6		998	1081
22	BDE-47		182578.618	72778	109801	0.66	NO	10.57	1.00	10.53	10.60	20.873032	104.4		998	1081
23	BDE-79		208261.156	84085	124176	0.68	NO	10.73	1.02	10.70	10.76	20.739747	103.7		998	1081
24	BDE-66		129921.454	51422	78500	0.66	NO	10.85	1.03	10.82	10.89	22.033420	110.2		998	1081
25	BDE-77		192533.922	78154	114380	0.68	NO	11.33	1.00	11.29	11.36	20.850123	104.3		998	1081
26	*PBB-101		451752.953	227636	224117	1.02	NO	11.46	1.01	11.43	11.50	37.858449	94.6		1238	516
27	*BDE-100		254907.859	129167	125741	1.03	NO	12.20	1.00	12.16	12.23	31.267491	104.2		1141	1619
28	BDE-119/BDE-120		245948.391	123606	122342	1.01	NO	12.37	1.01	12.34	12.40	61.805705	103.0		1141	1619
29	BDE-99		171583.062	86347	85236	1.01	NO	12.71	1.00	12.67	12.74	31.847852	106.2		1141	1619
30	BDE-116		84063.469	42244	41819	1.01	NO	12.87	1.01	12.83	12.90	32.442639	108.1		1141	1619
31	BDE-83		91328.496	45770	45558	1.00	NO	12.99	1.02	12.96	13.03	31.264648	104.2		1141	1619
32	BDE-118		107579.527	54122	53457	1.01	NO	13.12	1.03	13.08	13.15	32.324948	107.7		1141	1619
33	BDE-85		127820.699	64677	63143	1.02	NO	13.60	0.99	13.57	13.63	33.246403	110.8		1141	1619
34	BDE-126		206326.344	104505	101821	1.03	NO	13.77	1.00	13.74	13.81	32.916410	109.7		1141	1619
35	BDE-105		111684.680	57589	54096	1.06	NO	13.92	1.01	13.89	13.96	33.232416	110.8		1141	1619
36	*PBB-153		305822.797	176097	129726	1.36	NO	14.10	1.00	14.06	14.13	40.910950	102.3		465	824
37	*BDE-155		373225.437	215754	157471	1.37	NO	13.76	0.97	13.73	13.80	40.244498	100.6		714	333

Quantify Sample Summary Report **MassLynx MassLynx V4.1 SCN 901**

Dataset: I:\Organics Instrument\HIGHRES GCMS Completed Results Files\HR-10\2021\2109\10-210914A-Q.qld

Last Altered: Friday, September 17, 2021 11:47:47 Eastern Daylight Time
Printed: Friday, September 17, 2021 12:16:48 Eastern Daylight Time

Name: 10-210914A16, Date: 15-Sep-2021, Time: 02:04:40, ID: H10-21-CCV-0125, Description: PBDEX-CS#3-003, Vial: Tray1:1

	Target Analyte	#Hom	Total Area	Ion1 Area	Ion2 Area	Ra	Ra Fail=YES	RT	RRT	RT LCL	RT UCL	Conc.	%Rec	Mod.Comment	Noise 1	Noise 2
38	BDE-154		321481.485	186335	135147	1.38	NO	14.15	1.00	14.11	14.18	42.136643	105.3		714	333
39	*BDE-153		157209.930	90007	67203	1.34	NO	14.88	1.00	14.85	14.92	41.860256	104.7		2687	1758
40	BDE-140		190291.554	110460	79832	1.38	NO	15.34	1.01	15.31	15.37	45.491037	113.7		2687	1758
41	BDE-138/BDE-166		213304.383	123302	90002	1.37	NO	15.87	1.07	15.83	15.90	92.496206	115.6		2687	1758
42	BDE-156		77175.106	45213	31962	1.41	NO	16.22	1.09	16.18	16.25	51.769699	129.4		2687	1758
43	BDE-128		89054.828	52088	36967	1.41	NO	16.84	0.99	16.80	16.87	52.267997	130.7		2687	1758
44	*BDE-184		206408.086	105217	101191	1.04	NO	16.64	0.98	16.60	16.67	49.760948	99.5		742	999
45	BDE-183		141668.000	72155	69513	1.04	NO	17.01	1.00	16.98	17.04	50.763248	101.5		742	999
46	BDE-191		89939.906	44976	44964	1.00	NO	17.57	1.03	17.54	17.61	52.155037	104.3		742	999
47	BDE-181		93194.734	47611	45584	1.04	NO	18.12	1.01	18.09	18.16	53.333347	106.7		742	999
48	BDE-190		62065.680	31824	30242	1.05	NO	18.27	1.02	18.24	18.31	52.574808	105.1		742	999
49	*PBB-180		103700.473	51180	52521	0.97	NO	17.12	0.96	17.08	17.15	40.137428	100.3		633	379
50	*BDE-197		122644.008	54553	68091	0.80	NO	19.50	1.00	19.47	19.54	51.072687	102.1		770	646
51	BDE-203		92437.261	41413	51024	0.81	NO	19.77	1.01	19.73	19.80	52.904523	105.8		770	646
52	BDE-196		106331.164	47865	58466	0.82	NO	19.91	1.02	19.87	19.94	53.055274	106.1		770	646
53	*PBB-194		62966.961	35624	27343	1.30	NO	19.97	1.02	19.94	20.00	40.363285	100.9		199	574
54	*BDE-208		281519.141	141142	140378	1.01	NO	21.23	0.99	21.19	21.26	100.35569	100.4		1524	1366
55	BDE-207		332175.312	163889	168286	0.97	NO	21.35	1.00	21.32	21.39	102.21242	102.2		1524	1366
56	BDE-206		310303.328	155341	154962	1.00	NO	21.61	1.01	21.58	21.65	126.35195	126.4		1524	1366
57	*PBB-206		106250.996	52798	53453	0.99	NO	21.07	0.99	21.04	21.11	95.354061	95.4		844	1071
58	*PBB-209		147327.320	81281	66046	1.23	NO	21.97	1.03	21.93	22.00	115.66339	115.7		718	791
59	*BDE-209		142032.480	80456	61576	1.31	NO	23.28	1.00	23.24	23.31	103.36922	103.4		525	699
60	*DBDPE		269226.015	136699	132527	1.03	NO	24.67	1.00	24.64	24.70	207.74285	103.9		350	477
61	13C12-BDE-3		3075908.2...	1512614	1563294	0.97	NO	5.10	0.48	5.07	5.14	50.125817	100.3		1531	2655
62	13C12-BDE-15		1609437.6...	534000	1075438	0.50	NO	7.13	0.67	7.10	7.16	48.079363	96.2		2561	3157
63	13C12-BDE-28		738023.906	371232	366792	1.01	NO	8.67	0.81	8.64	8.71	48.420036	96.8		1197	2422
64	13C6-HBB		471983.453	341209	130774	2.61	NO	10.00	0.93	9.96	10.03	43.019224	86.0		872	980
65	13C12-BDE-47		521117.000	315079	206038	1.53	NO	10.56	0.98	10.52	10.59	49.291881	98.6		3939	1817
66	13C12-BDE-77		583179.501	345419	237760	1.45	NO	11.31	1.06	11.28	11.35	52.355408	104.7		3939	1817
67	13C12-BDE-100		534368.641	272930	261439	1.04	NO	12.20	0.81	12.16	12.23	43.247152	86.5		3033	2545
68	13C12-BDE-99		326961.813	164005	162956	1.01	NO	12.69	0.84	12.66	12.73	45.128799	90.3		3033	2545
69	13C12-BDE-126		400173.422	201957	198216	1.02	NO	13.76	0.91	13.73	13.80	49.087170	98.2		3033	2545
70	13C12-BDE-154		416973.672	241683	175291	1.38	NO	14.13	0.93	14.10	14.17	41.767739	83.5		894	479
71	13C12-BDE-153		161973.602	95289	66685	1.43	NO	14.87	0.98	14.84	14.91	47.974099	95.9		1536	826
72	13C12-BDE-183		186835.219	93088	93747	0.99	NO	17.01	0.95	16.98	17.04	40.965208	81.9		629	623
73	13C12-BDE-197		305269.531	135853	169416	0.80	NO	19.49	1.09	19.46	19.52	86.742910	86.7		791	730
74	13C12-BDE-207		893498.469	446147	447351	1.00	NO	21.34	0.99	21.31	21.38	204.28948	81.7		1633	2591

Quantify Sample Summary Report **MassLynx MassLynx V4.1 SCN 901**

Dataset: I:\Organics Instrument\HIGHRES GCMS Completed Results Files\HR-10\2021\2109\10-210914A-Q.qld

Last Altered: Friday, September 17, 2021 11:47:47 Eastern Daylight Time
Printed: Friday, September 17, 2021 12:16:48 Eastern Daylight Time

Name: 10-210914A16, Date: 15-Sep-2021, Time: 02:04:40, ID: H10-21-CCV-0125, Description: PBDEX-CS#3-003, Vial: Tray1:1

	Target Analyte	#Hom	Total Area	Ion1 Area	Ion2 Area	Ra	Ra Fail=YES	RT	RRT	RT LCL	RT UCL	Conc.	%Rec	Mod.Comment	Noise 1	Noise 2
75	13C12-BDE-209		355761.344	199597	156165	1.28	NO	23.27	1.08	23.23	23.30	315.49906	126.2		1480	1160
76	13C14-DBDPE		727505.219	373541	353964	1.06	NO	24.66	1.14	24.63	24.69	864.74972	172.9		781	1154
77	13C12-BDE-138 (CL)		144502.641	84999	59504	1.43	NO	15.83	1.05	15.80	15.86	50.828461	101.7		1536	826
78	13C12-BDE-79 (IS)		607004.406	366779	240225	1.53	NO	10.72	0.71	10.68	10.75	69.579526	139.2		3939	1817
79	13C12-BDE-139 (IS)		198551.571	115299	83253	1.38	NO	15.14	0.00	15.11	15.17	78.787318	157.6		1536	826
80	13C12-BDE-180 (IS)		107894.532	54133	53762	1.01	NO	17.88	1.18	17.84	17.91	91.804907	183.6		629	623
81	13C12-BDE-206 (IS)		823332.657	415185	408148	1.02	NO	21.61	1.43	21.58	21.65	570.26069	228.1		1633	2591
82	Total MoF1	3		1175181								59.898029			30754	
83	Total DiF2	5		1007911								151.97375			1201	
84	Total TriF3	6		942860								171.81931			3577	
85	Total PBEBF3	1		141541								23.494541			658	
86	Total TePBBF3	1		162126								22.506218			873	
87	Total HBBF4	1		58278								21.070095			563	
88	Total TetraF4	8		549900								167.97016			998	
89	Total PePBBF4	1		227636								37.858449			1238	
90	Total PentaF5	9		708029								320.34851			1141	
91	Total PBB-153	1		176097								40.910950			465	
92	Total HexaF5	2		402089								82.381141			714	
93	Total HexaF6	5		421070								283.88519			2687	
94	Total HeptaF6	5		301782								258.58739			742	
95	Total PBB-180	1		51180								40.137428			633	
96	Total OctaF7	3		143832								157.03249			770	
97	Total PBB-194	1		35624								40.363285			199	
98	Total NonaF8	3		460371								328.92006			1524	
99	Total PBB-206	1		52798								95.354061			844	
100	Total PBB-209	1		81281								115.66339			718	
101	Total DecaF9	1		80456								103.36922			525	
102	Total DBDPEF10															
103	Total 13CMoF1	1		1512614								50.125817			1531	
104	Total 13CDiF2	1		534000								48.079363			2561	
105	Total 13CTriF3	1		371232								48.420036			1197	
106	Total 13CHBBF4	1		341209								43.019224			872	
107	Total 13CTetraF4	3		1027278								171.22681			3939	
108	Total 13CPentaF5	3		638892								137.46312			3033	
109	Total 13CHexaF5	1		241683								41.767739			894	
110	Total 13CHexaF6	3		295586								177.58988			1536	
111	Total 13CHeptaF6	2		147221								132.77011			629	

Dataset: I:\Organics Instrument\HIGHRES GCMS Completed Results Files\HR-10\2021\2109\10-210914A-Q.qld

Last Altered: Friday, September 17, 2021 11:47:47 Eastern Daylight Time
Printed: Friday, September 17, 2021 12:16:48 Eastern Daylight Time

Name: 10-210914A16, Date: 15-Sep-2021, Time: 02:04:40, ID: H10-21-CCV-0125, Description: PBDEX-CS#3-003, Vial: Tray1:1

	Target Analyte	#Hom	Total Area	Ion1 Area	Ion2 Area	Ra	Ra Fail=YES	RT	RRT	RT LCL	RT UCL	Conc.	%Rec	Mod.Comment	Noise 1	Noise 2
112	Total 13COctaF7	1		135853								86.742910			791	
113	Total 13CNonaF8	2		861332								774.55017			1633	
114	Total 13CDecaF9	1		199597								315.49906			1480	
115	Total 13CDBDPEF10															
116	Lockmass F1			0											251208	
117	Lockmass F2			0											551230	
118	Lockmass F3			0											248880	
119	Lockmass F4			0											88206	
120	Lockmass F5			0											71278	
121	Lockmass F6			0											22711	
122	Lockmass F7			0											13710	
123	Lockmass F8			0											22459	
124	Lockmass F9			0											24329	
125	Lockmass F10															

Quantify Audit Report MassLynx MassLynx V4.1 SCN 901

Dataset: I:\Organics Instrument\HIGHRES GCMS Completed Results Files\HR-10\2021\2109\10-210914A-Q.qld

Last Altered: Friday, September 17, 2021 11:47:47 Eastern Daylight Time
Printed: Friday, September 17, 2021 12:16:48 Eastern Daylight Time

Date	Time	Event	Details	Comments
17-Sep-21	11:35:53	Process Extract		
17-Sep-21	11:35:54	Process Integrate		
17-Sep-21	11:35:55	Process Quantify		
17-Sep-21	11:36:00	Dataset Created		
17-Sep-21	11:40:46	Pre modification peak	Sample:10-210914A01, Compound:TetraF4, RT:10.146	
17-Sep-21	11:40:46	Peak modified	Sample:10-210914A01, Compound:TetraF4, RT:10.146	EG210917MB
17-Sep-21	11:40:46	Pre modification peak	Sample:10-210914A01, Compound:TetraF4, RT:10.084	
17-Sep-21	11:40:46	Peak modified	Sample:10-210914A01, Compound:TetraF4, RT:10.084	EG210917MB
17-Sep-21	11:40:46	Pre modification peak	Sample:10-210914A01, Compound:TetraF4, RT:10.866	
17-Sep-21	11:40:46	Peak modified	Sample:10-210914A01, Compound:TetraF4, RT:10.866	EG210917MB
17-Sep-21	11:40:46	Pre modification peak	Sample:10-210914A01, Compound:TetraF4, RT:10.866	
17-Sep-21	11:40:46	Peak modified	Sample:10-210914A01, Compound:TetraF4, RT:10.866	EG210917MB
17-Sep-21	11:40:46	Pre modification peak	Sample:10-210914A01, Compound:TetraF4, RT:10.742	
17-Sep-21	11:40:46	Peak modified	Sample:10-210914A01, Compound:TetraF4, RT:10.742	EG210917MB
17-Sep-21	11:41:16	Pre modification peak	Sample:10-210914A01, Compound:TetraF4, RT:11.351	
17-Sep-21	11:41:16	Peak modified	Sample:10-210914A01, Compound:TetraF4, RT:11.351	EG210917MB
17-Sep-21	11:41:16	Pre modification peak	Sample:10-210914A01, Compound:TetraF4, RT:11.351	
17-Sep-21	11:41:16	Peak modified	Sample:10-210914A01, Compound:TetraF4, RT:11.351	EG210917MB
17-Sep-21	11:42:11	Pre modification peak	Sample:10-210914A01, Compound:PentaF5, RT:13.948	
17-Sep-21	11:42:11	Peak modified	Sample:10-210914A01, Compound:PentaF5, RT:13.948	EG210917MB
17-Sep-21	11:42:11	Pre modification peak	Sample:10-210914A01, Compound:PentaF5, RT:13.787	
17-Sep-21	11:42:11	Peak modified	Sample:10-210914A01, Compound:PentaF5, RT:13.787	EG210917MB
17-Sep-21	11:42:11	Pre modification peak	Sample:10-210914A01, Compound:PentaF5, RT:13.625	
17-Sep-21	11:42:11	Peak modified	Sample:10-210914A01, Compound:PentaF5, RT:13.625	EG210917MB
17-Sep-21	11:42:11	Pre modification peak	Sample:10-210914A01, Compound:PentaF5, RT:13.948	
17-Sep-21	11:42:11	Peak modified	Sample:10-210914A01, Compound:PentaF5, RT:13.948	EG210917MB
17-Sep-21	11:42:47	Pre modification peak	Sample:10-210914A01, Compound:HexaF6, RT:15.877	
17-Sep-21	11:42:47	Peak modified	Sample:10-210914A01, Compound:HexaF6, RT:15.877	EG210917MB
17-Sep-21	11:42:47	Pre modification peak	Sample:10-210914A01, Compound:HexaF6, RT:15.889	
17-Sep-21	11:42:47	Peak modified	Sample:10-210914A01, Compound:HexaF6, RT:15.889	EG210917MB
17-Sep-21	11:43:22	Pre modification peak	Sample:10-210914A01, Compound:HexaF6, RT:16.216	
17-Sep-21	11:43:22	Peak modified	Sample:10-210914A01, Compound:HexaF6, RT:16.216	EG210917MB
17-Sep-21	11:43:22	Pre modification peak	Sample:10-210914A01, Compound:HexaF6, RT:16.228	
17-Sep-21	11:43:22	Peak modified	Sample:10-210914A01, Compound:HexaF6, RT:16.228	EG210917MB
17-Sep-21	11:43:45	Pre modification peak	Sample:10-210914A01, Compound:PBB180F6, RT:17.140	
17-Sep-21	11:43:45	Peak modified	Sample:10-210914A01, Compound:PBB180F6, RT:17.140	EG210917MB
17-Sep-21	11:43:45	Pre modification peak	Sample:10-210914A01, Compound:PBB180F6, RT:17.140	
17-Sep-21	11:43:45	Peak modified	Sample:10-210914A01, Compound:PBB180F6, RT:17.140	EG210917MB
17-Sep-21	11:44:46	Pre modification peak	Sample:10-210914A01, Compound:OctaF7, RT:19.919	
17-Sep-21	11:44:46	Peak modified	Sample:10-210914A01, Compound:OctaF7, RT:19.919	EG210917MB
17-Sep-21	11:44:46	Pre modification peak	Sample:10-210914A01, Compound:OctaF7, RT:19.515	
17-Sep-21	11:44:46	Peak modified	Sample:10-210914A01, Compound:OctaF7, RT:19.515	EG210917MB
17-Sep-21	11:44:46	Pre modification peak	Sample:10-210914A01, Compound:OctaF7, RT:19.919	
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17-Sep-21	11:44:46	Pre modification peak	Sample:10-210914A01, Compound:OctaF7, RT:19.793	
17-Sep-21	11:44:46	Peak modified	Sample:10-210914A01, Compound:OctaF7, RT:19.793	EG210917MB
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17-Sep-21	11:45:26	Peak modified	Sample:10-210914A01, Compound:OctaF7, RT:19.919	EG210917MB
17-Sep-21	11:45:26	Peak modified	Sample:10-210914A01, Compound:OctaF7, RT:19.919	EG210917MB
17-Sep-21	11:46:16	Pre modification peak	Sample:10-210914A01, Compound:NonaF8, RT:21.626	
17-Sep-21	11:46:16	Peak modified	Sample:10-210914A01, Compound:NonaF8, RT:21.626	EG210917MB
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Quantify Audit Report MassLynx MassLynx V4.1 SCN 901

Dataset: I:\Organics Instrument\HIGHRES GCMS Completed Results Files\HR-10\2021\2109\10-210914A-Q.qld

Last Altered: Friday, September 17, 2021 11:47:47 Eastern Daylight Time
Printed: Friday, September 17, 2021 12:16:48 Eastern Daylight Time

Date	Time	Event	Details	Comments
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17-Sep-21	11:46:49	Pre modification peak	Sample:10-210914A01, Compound:13CTetraF4, RT:11.339	
17-Sep-21	11:46:49	Peak modified	Sample:10-210914A01, Compound:13CTetraF4, RT:11.339	EG210917MB
17-Sep-21	11:46:49	Pre modification peak	Sample:10-210914A01, Compound:13CTetraF4, RT:11.339	
17-Sep-21	11:46:49	Peak modified	Sample:10-210914A01, Compound:13CTetraF4, RT:11.339	EG210917MB
17-Sep-21	11:47:16	Pre modification peak	Sample:10-210914A01, Compound:13CNonaF8, RT:21.355	
17-Sep-21	11:47:16	Peak modified	Sample:10-210914A01, Compound:13CNonaF8, RT:21.355	EG210917MB
17-Sep-21	11:47:16	Pre modification peak	Sample:10-210914A01, Compound:13CNonaF8, RT:21.367	
17-Sep-21	11:47:16	Peak modified	Sample:10-210914A01, Compound:13CNonaF8, RT:21.367	EG210917MB
17-Sep-21	11:47:45	Pre modification peak	Sample:10-210914A01, Compound:13CHeptaF6, RT:17.900	
17-Sep-21	11:47:45	Peak modified	Sample:10-210914A01, Compound:13CHeptaF6, RT:17.900	EG210917MB
17-Sep-21	11:48:31	Dataset Saved	Saved to 'I:\Organics Instrument\HIGHRES GCMS Complete...	

Dataset: I:\Organics Instrument\HIGHRES GCMS Completed Results Files\HR-10\2021\2109\10-210914A-Q.qld

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Calibration: C:\MassLynx\PBDE.PRO\CurveDB\10-210913B-ICAL-PBDE.cdb 14 Sep 2021 11:07:06

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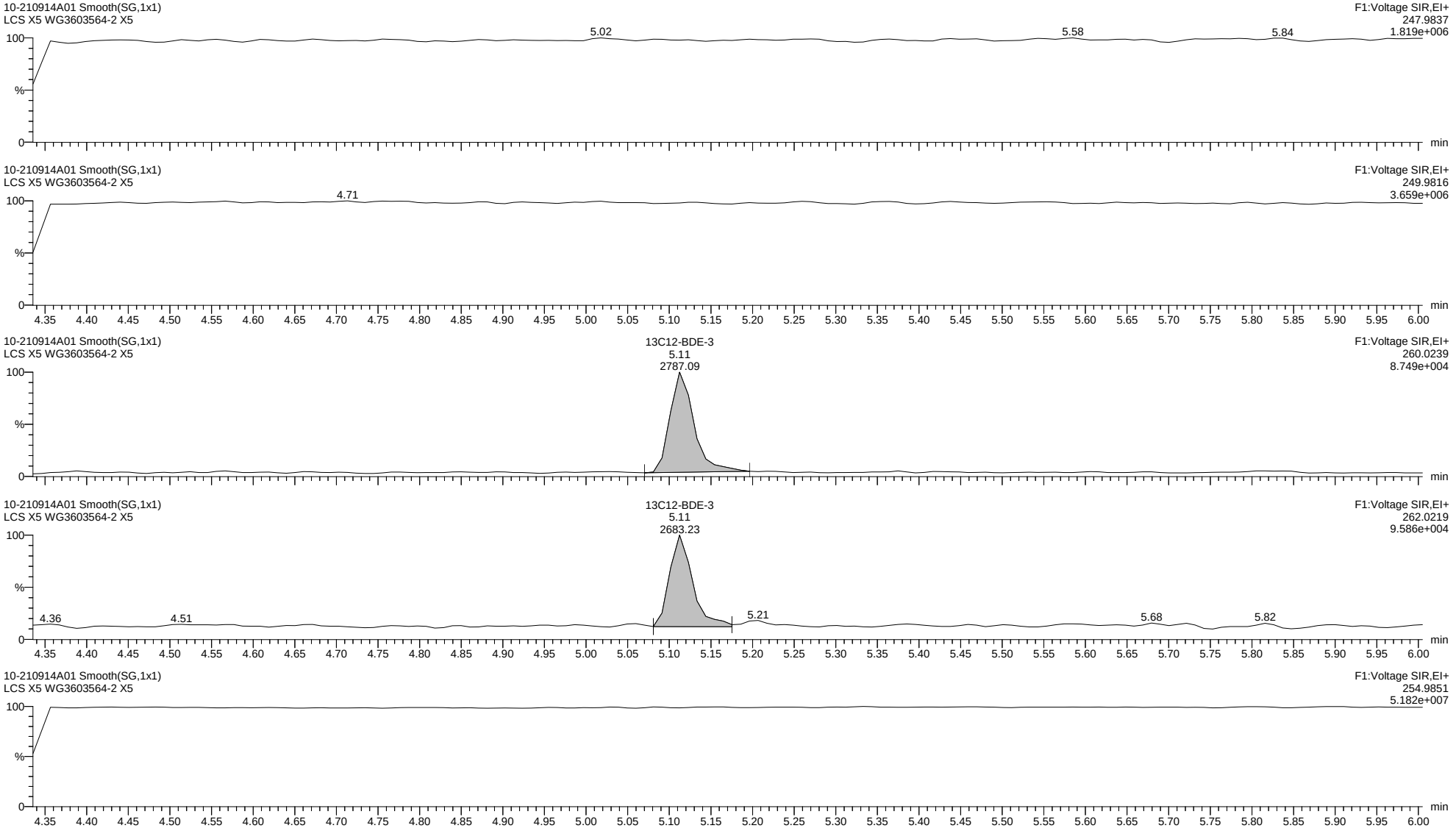

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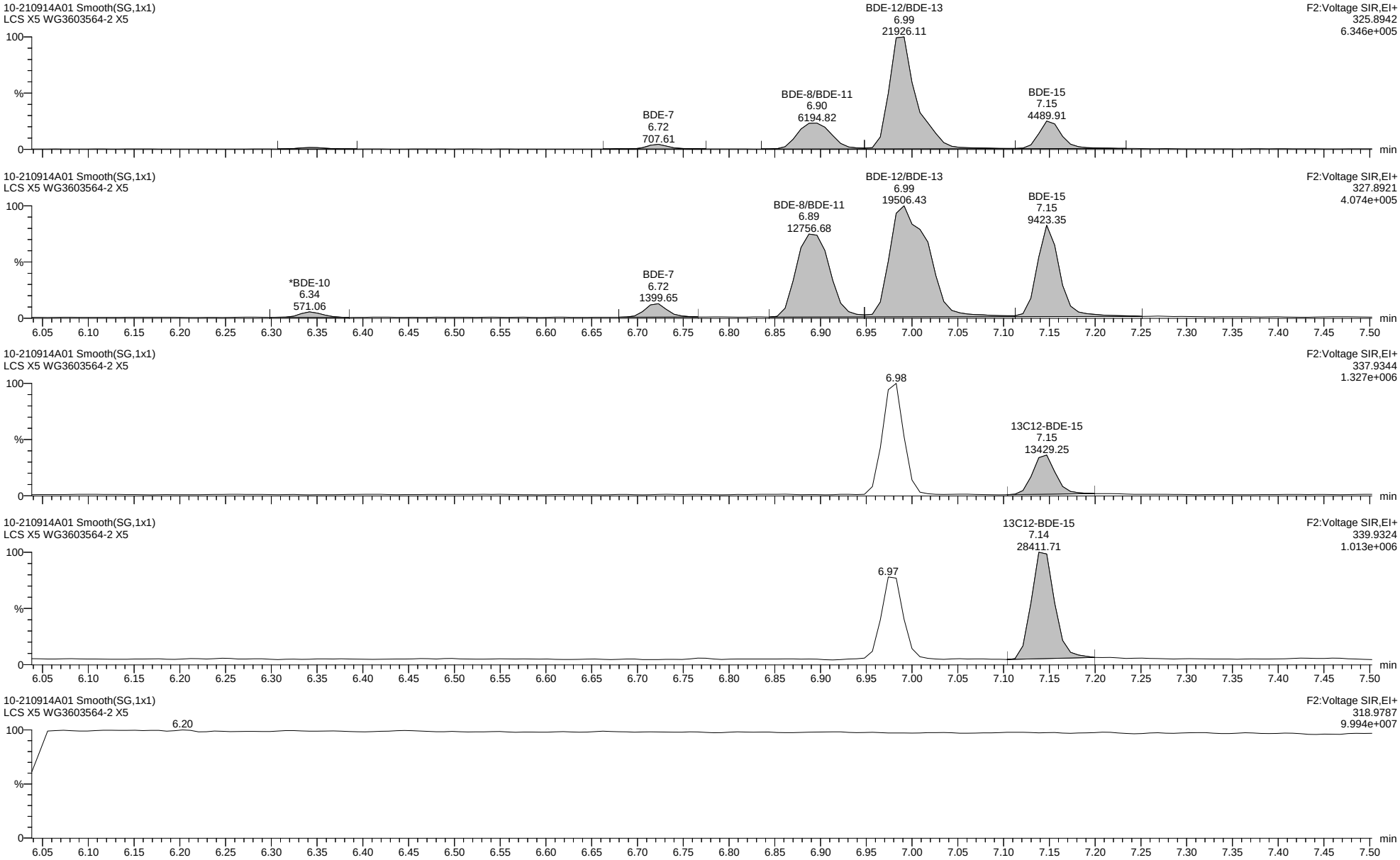

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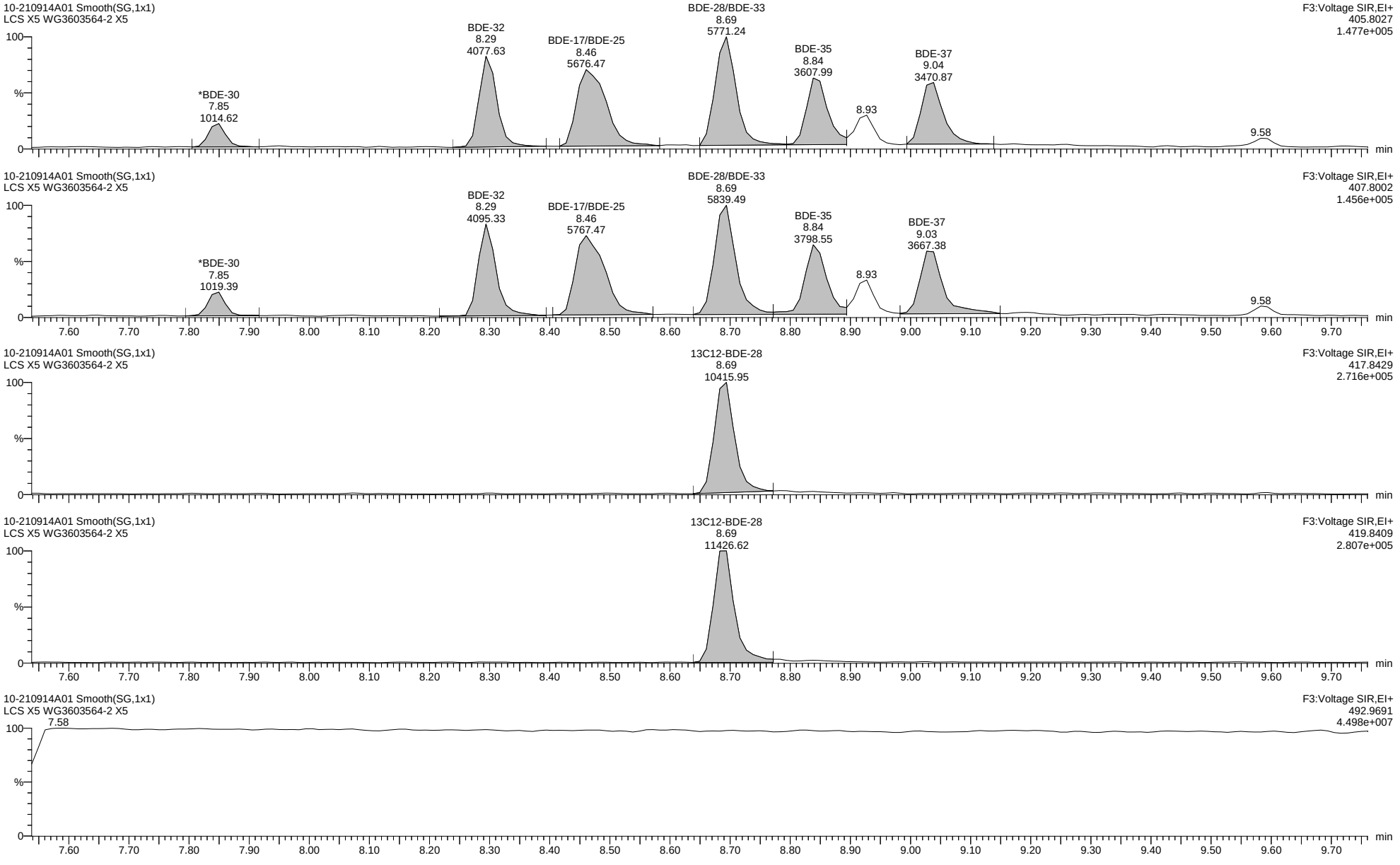

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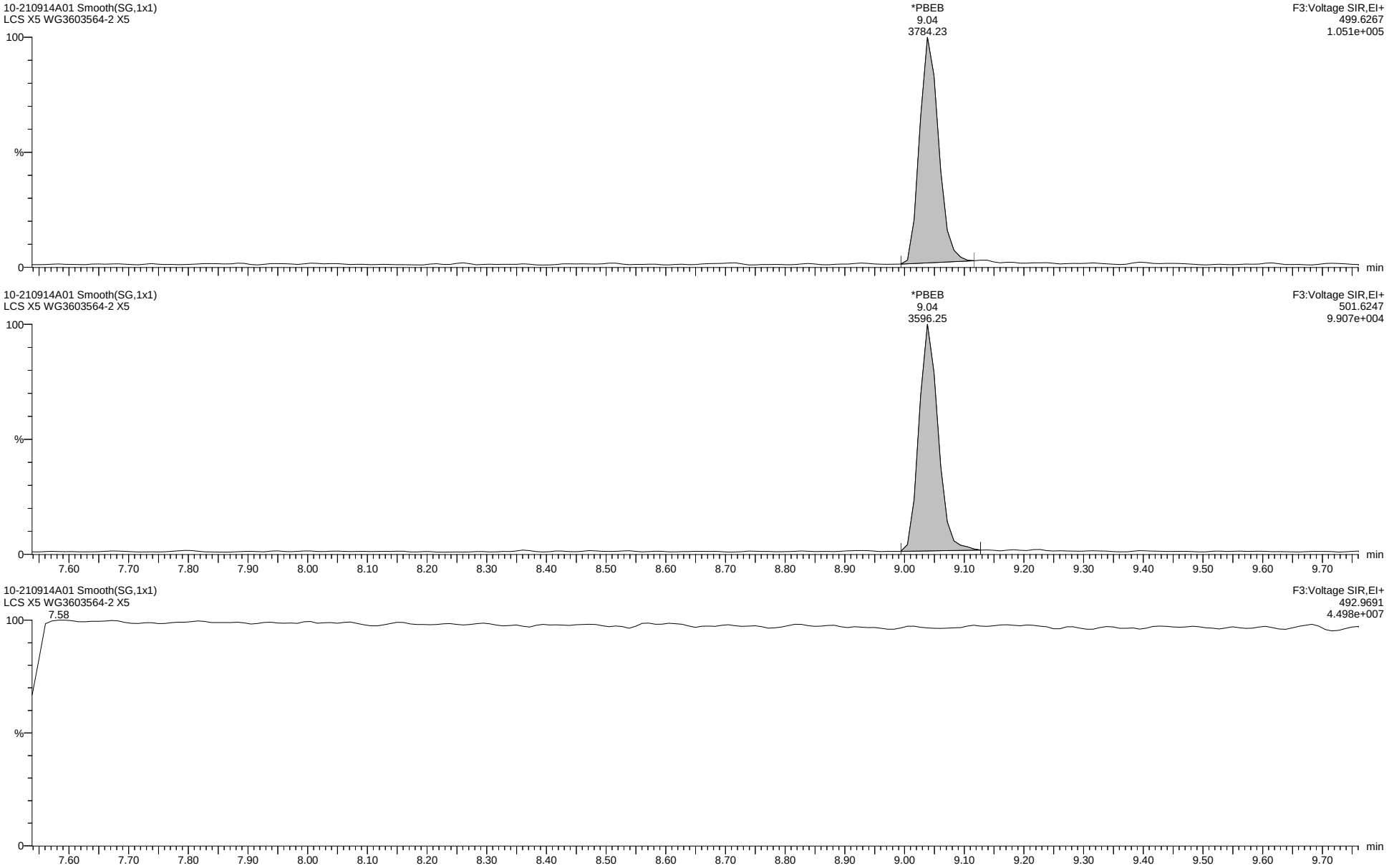

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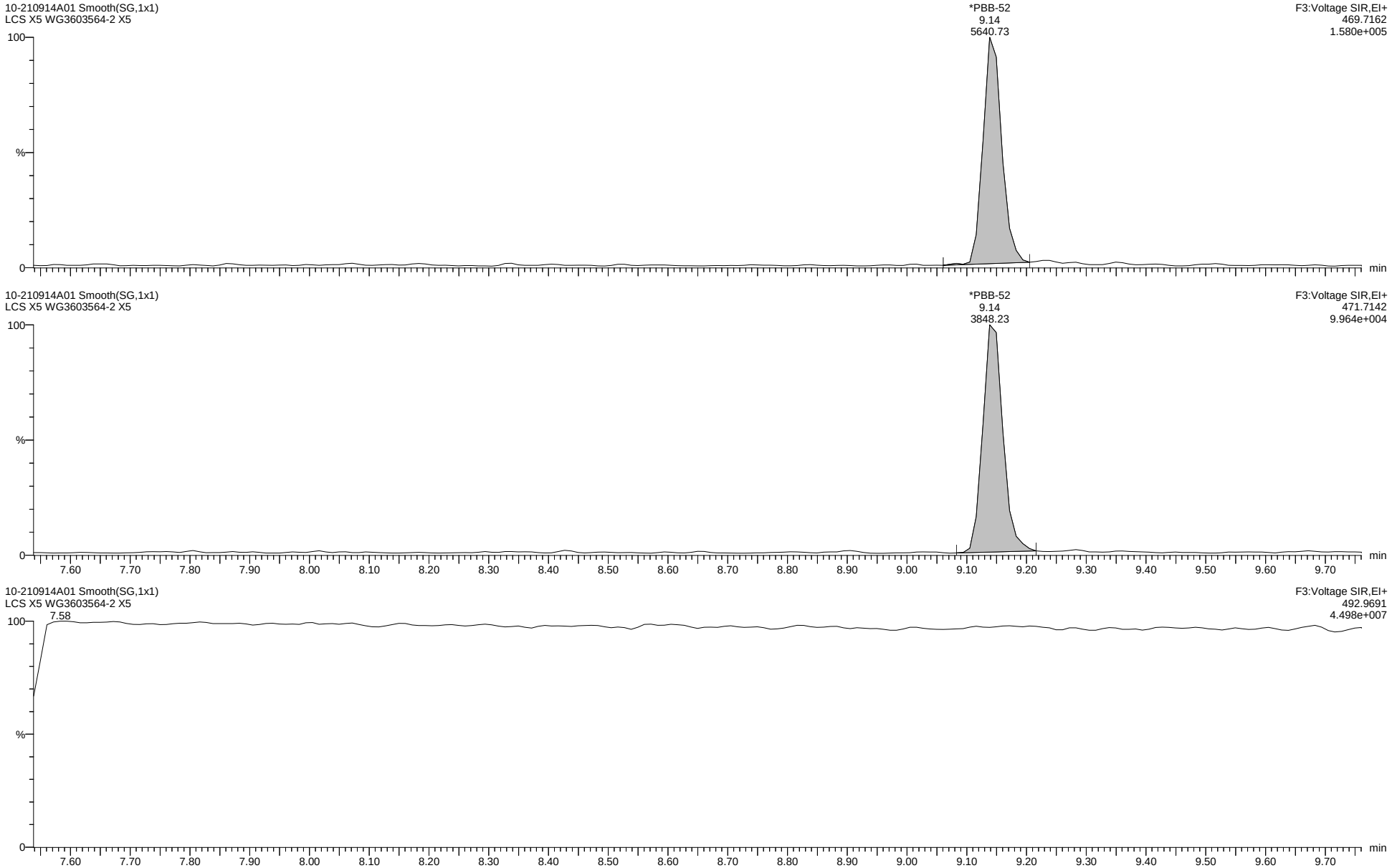

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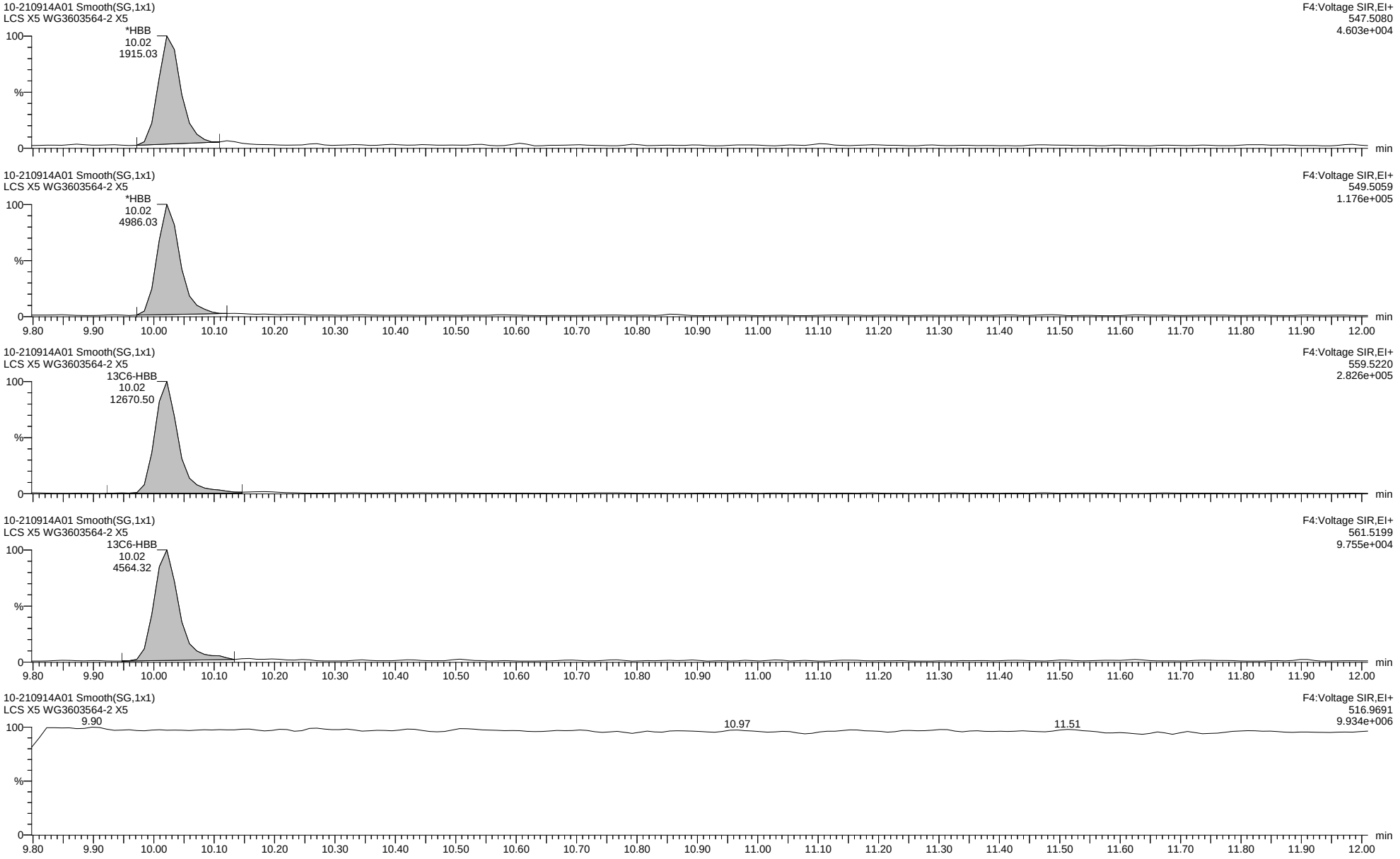

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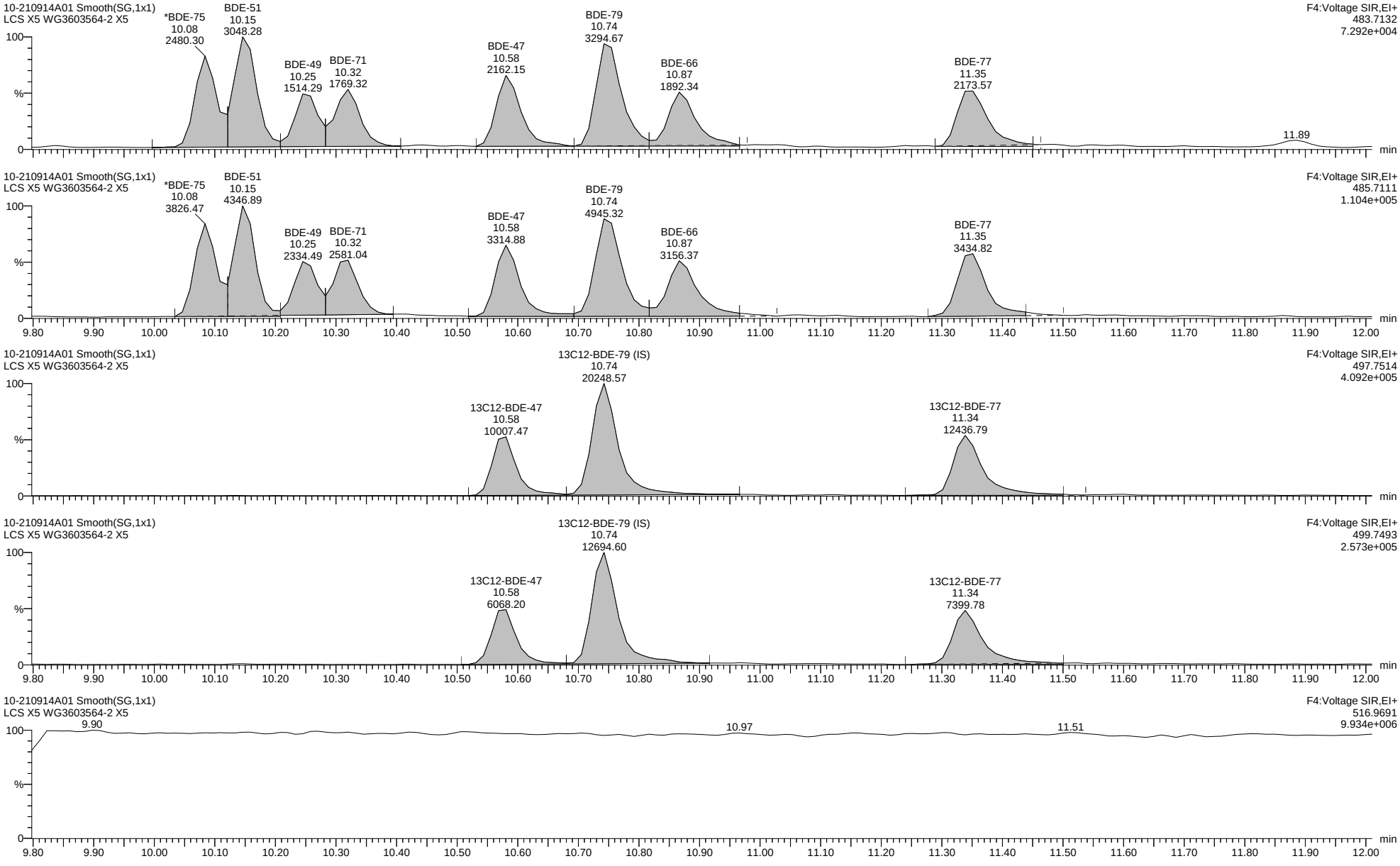

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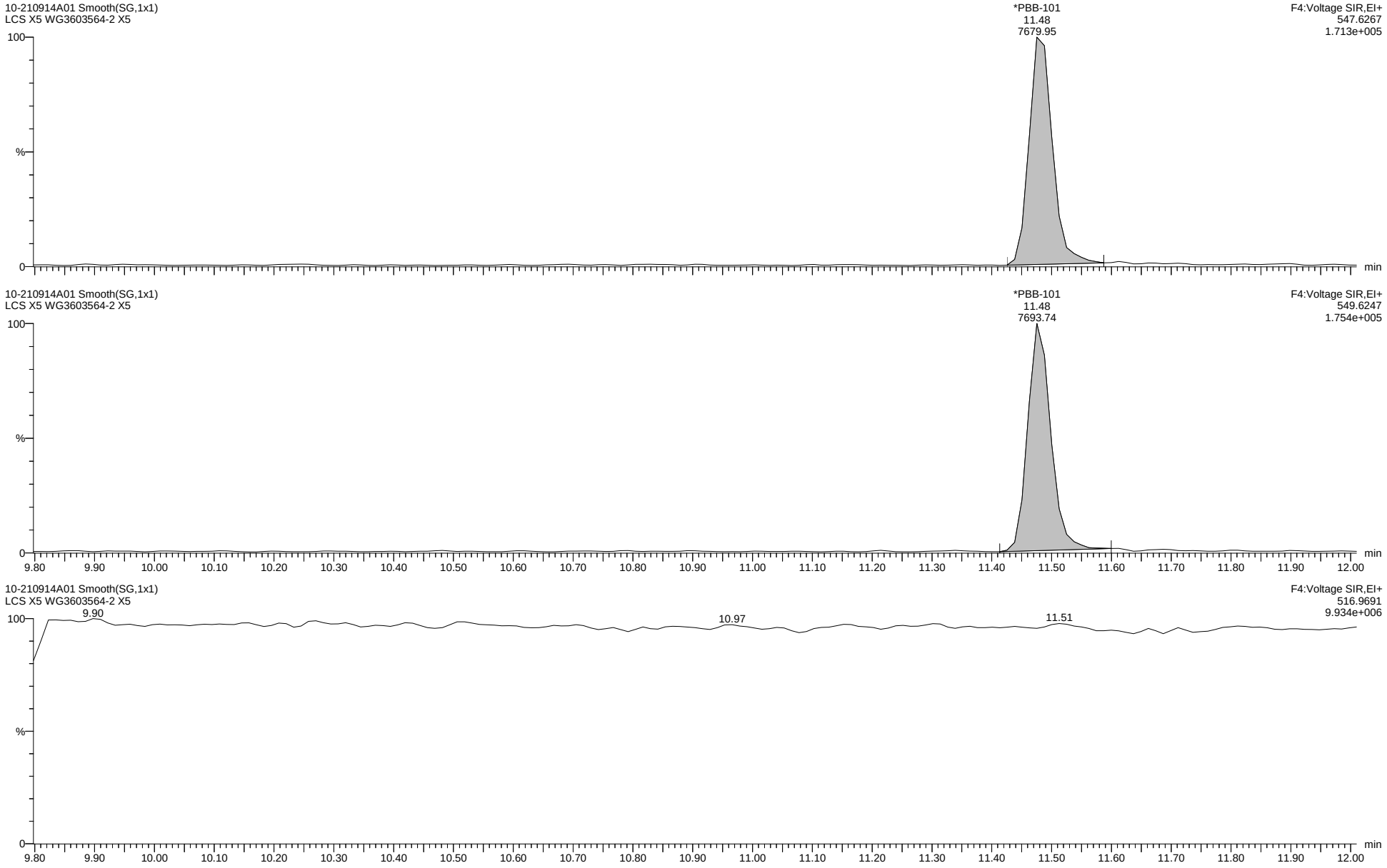

Quantify Sample Template Report **MassLynx MassLynx V4.1 SCN 901**

Dataset: I:\Organics Instrument\HIGHRES GCMS Completed Results Files\HR-10\2021\2109\10-210914A-Q.qld

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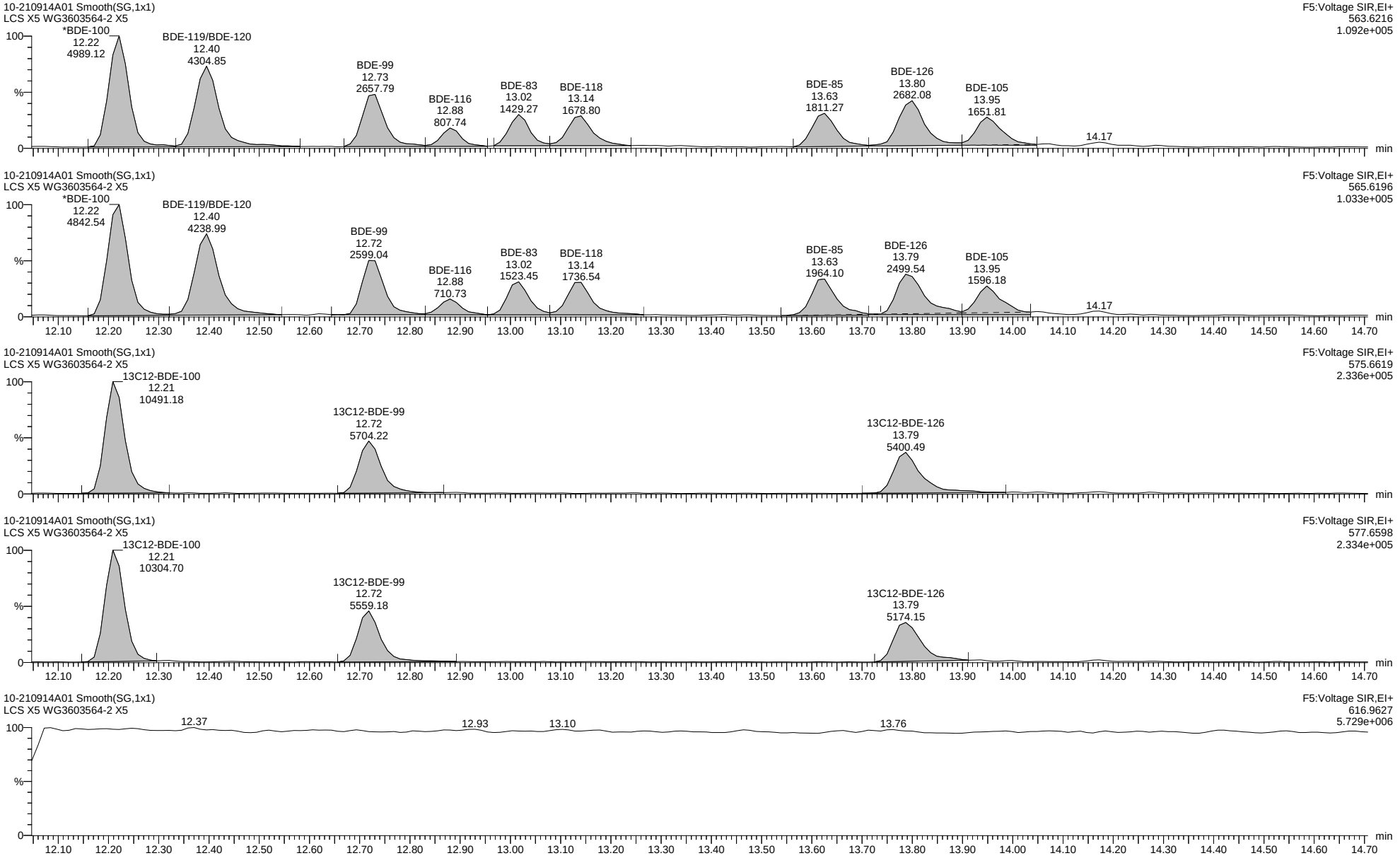

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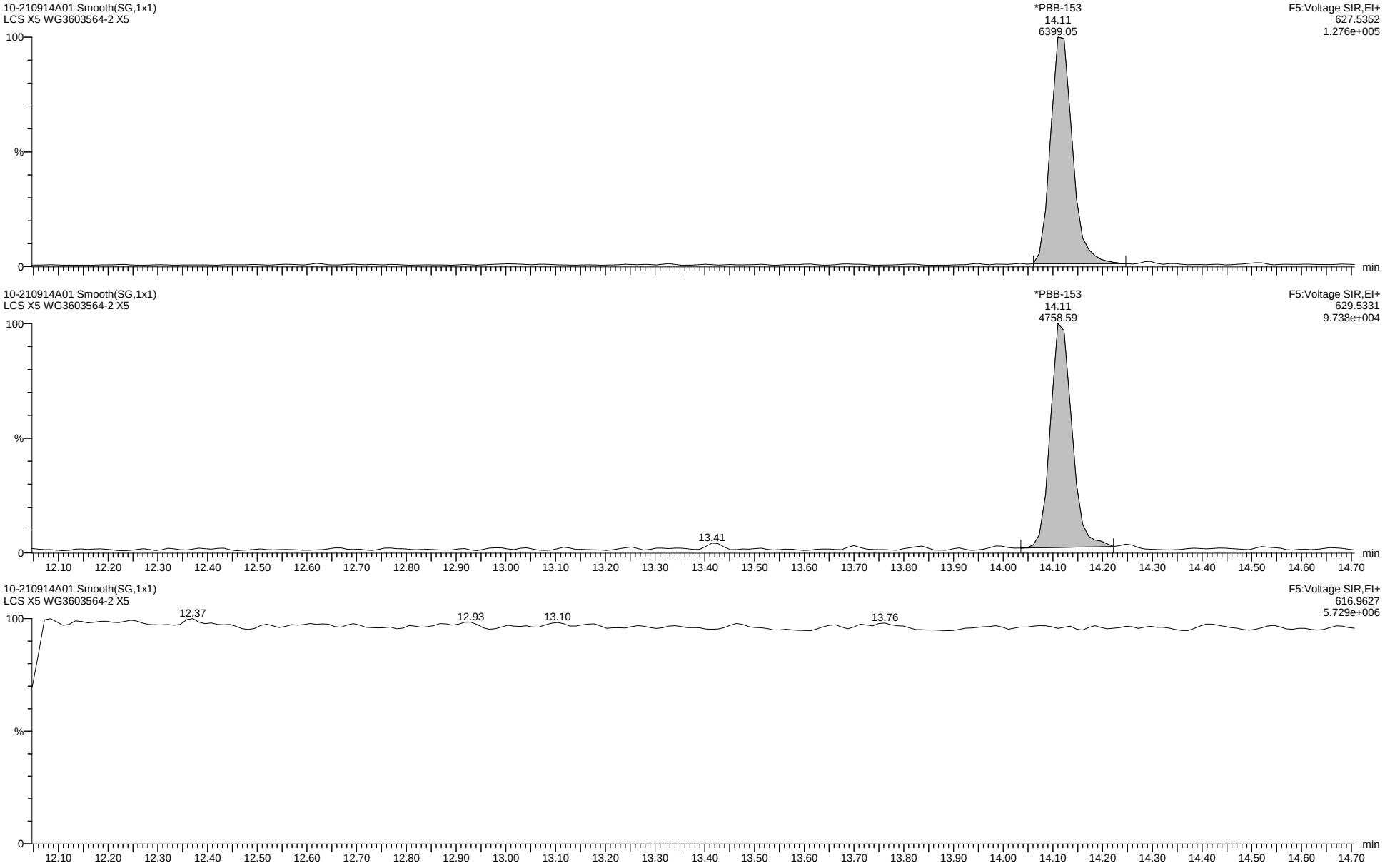

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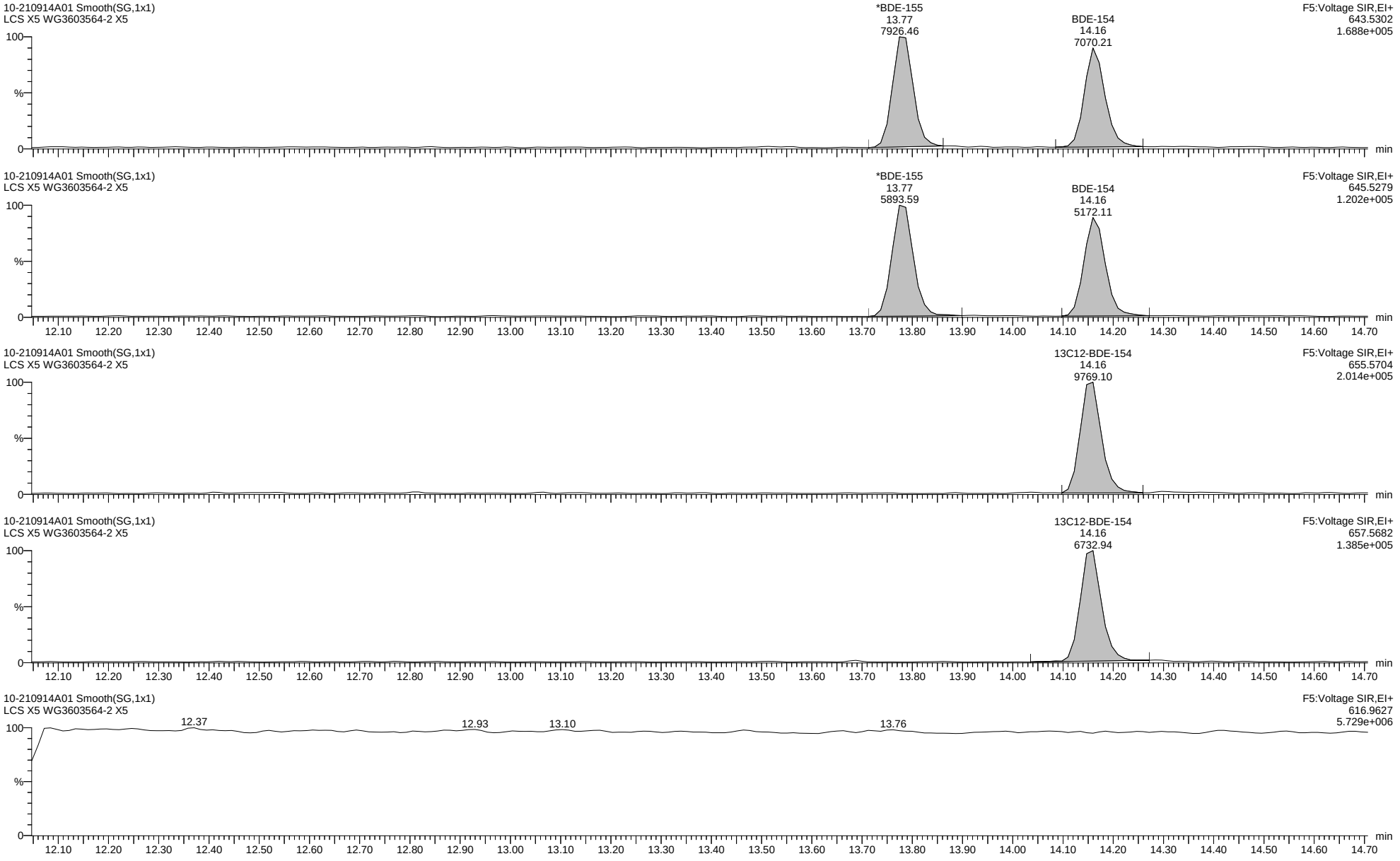

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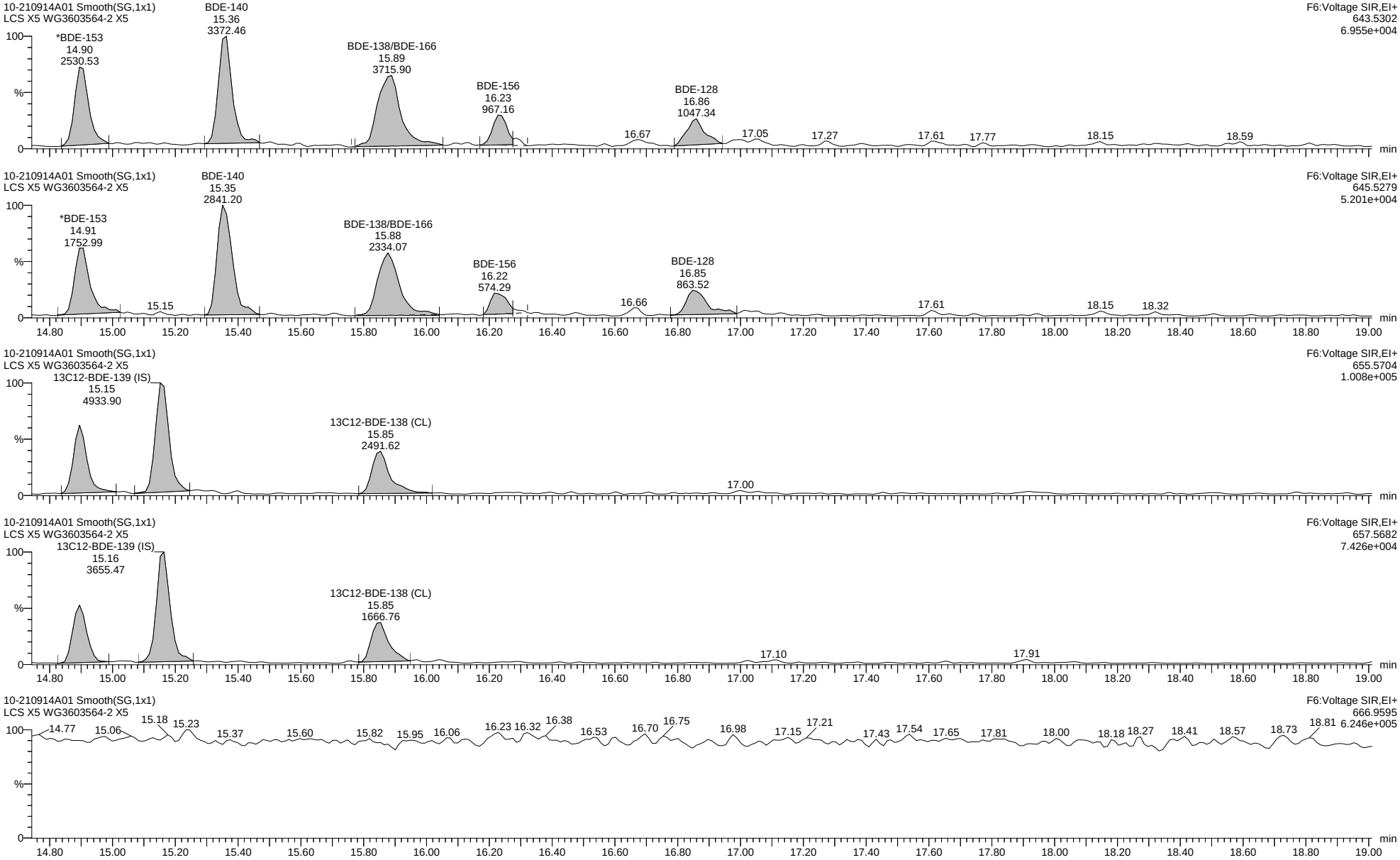

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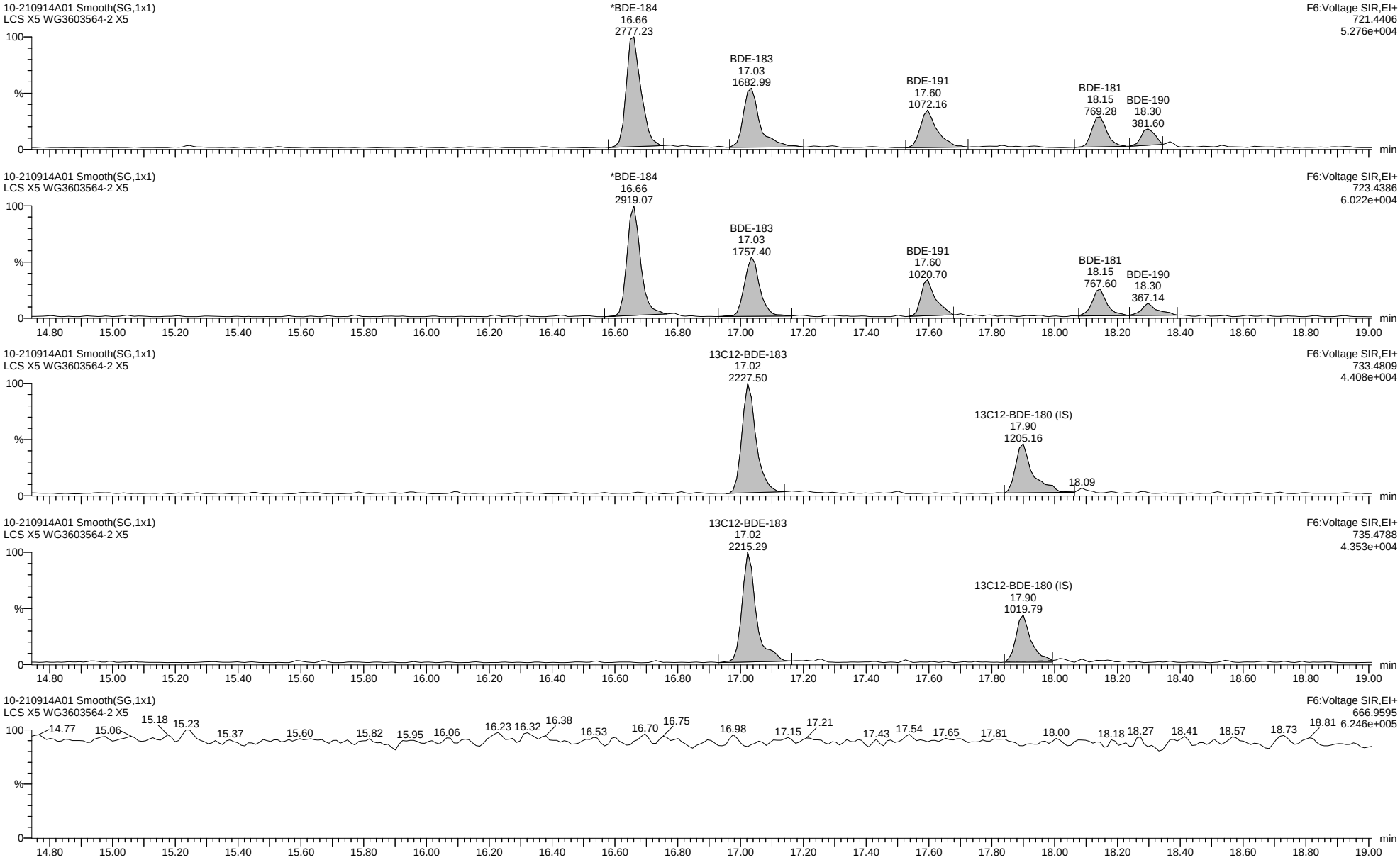

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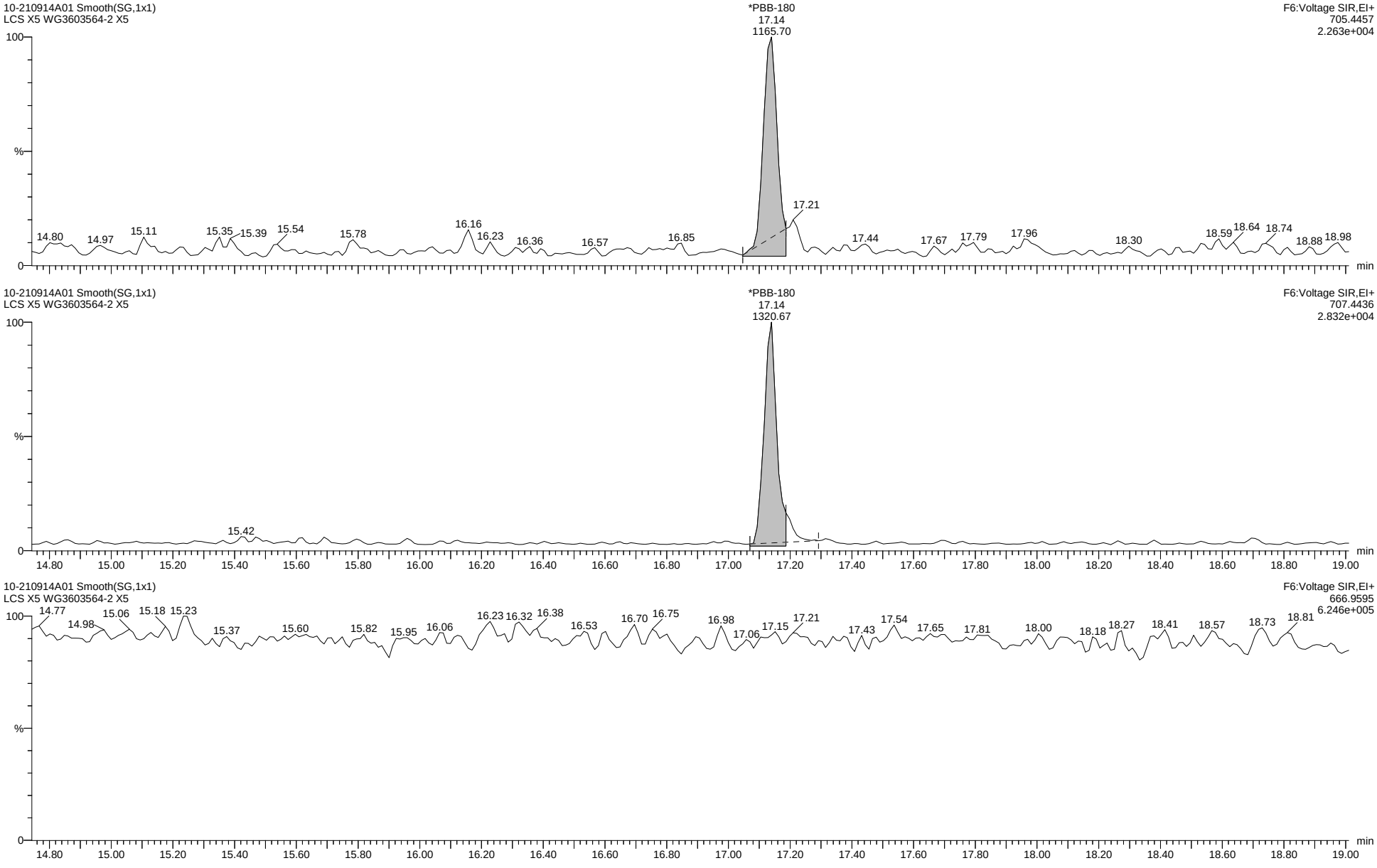

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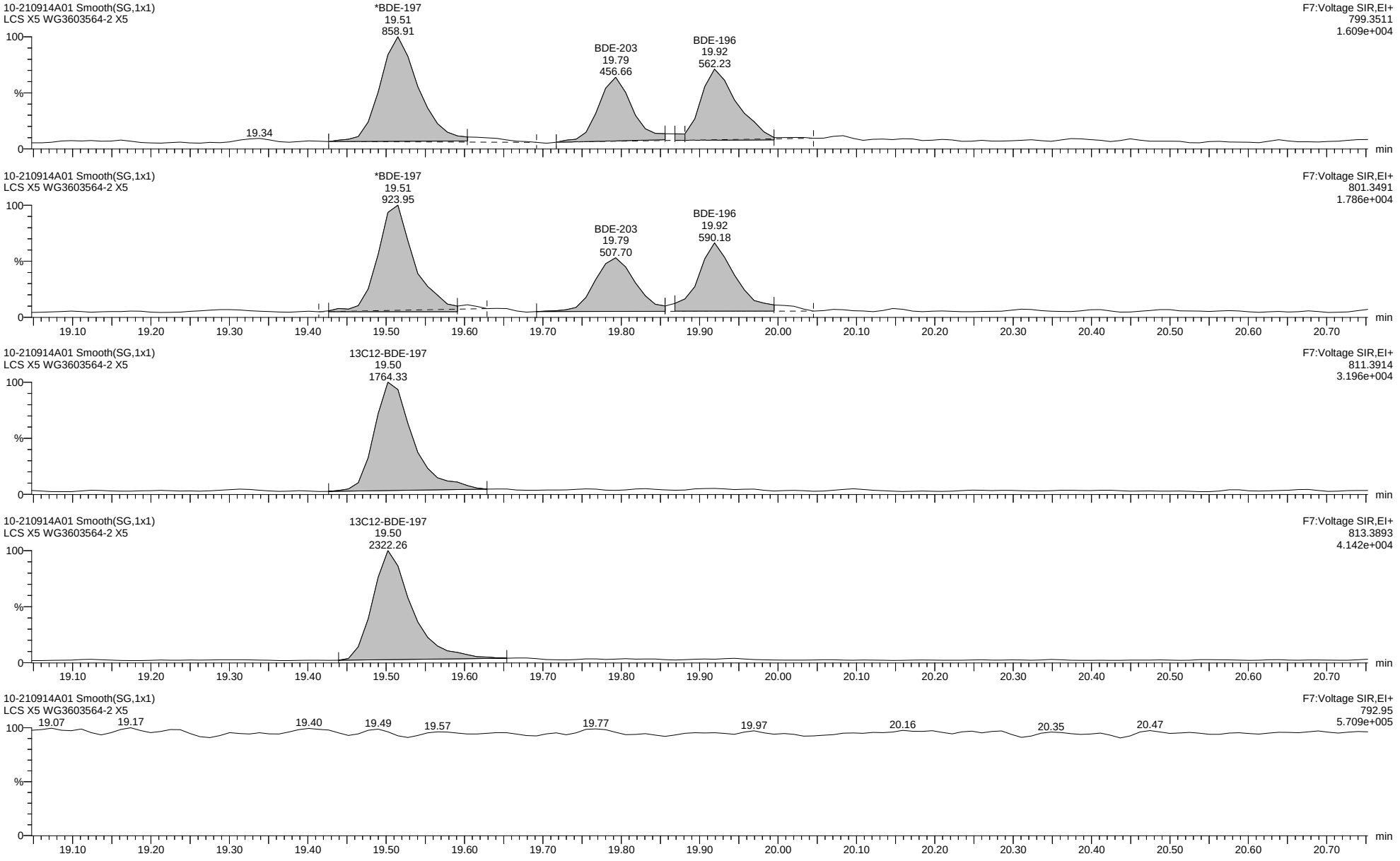

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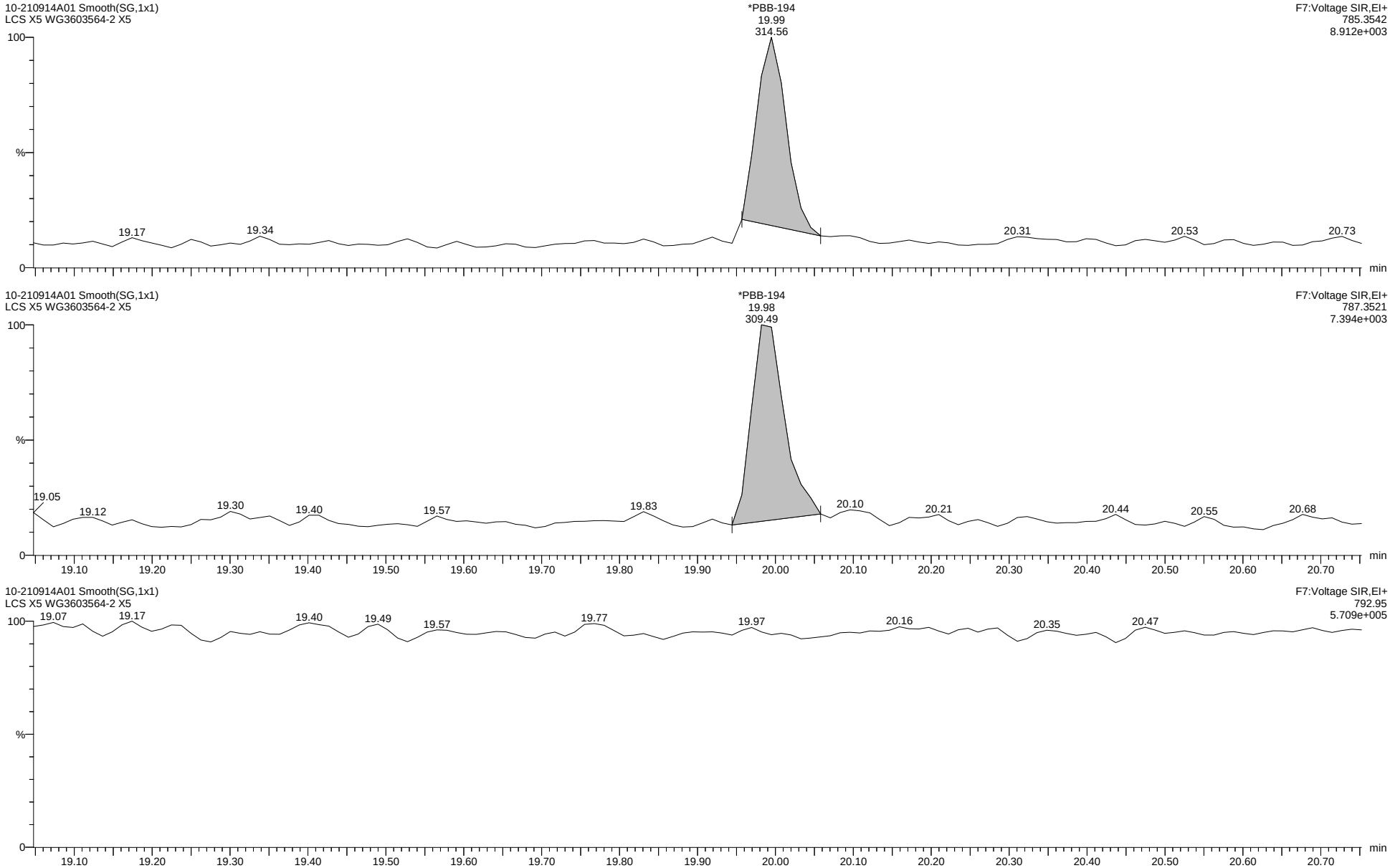

Quantify Sample Template Report **MassLynx MassLynx V4.1 SCN 901**

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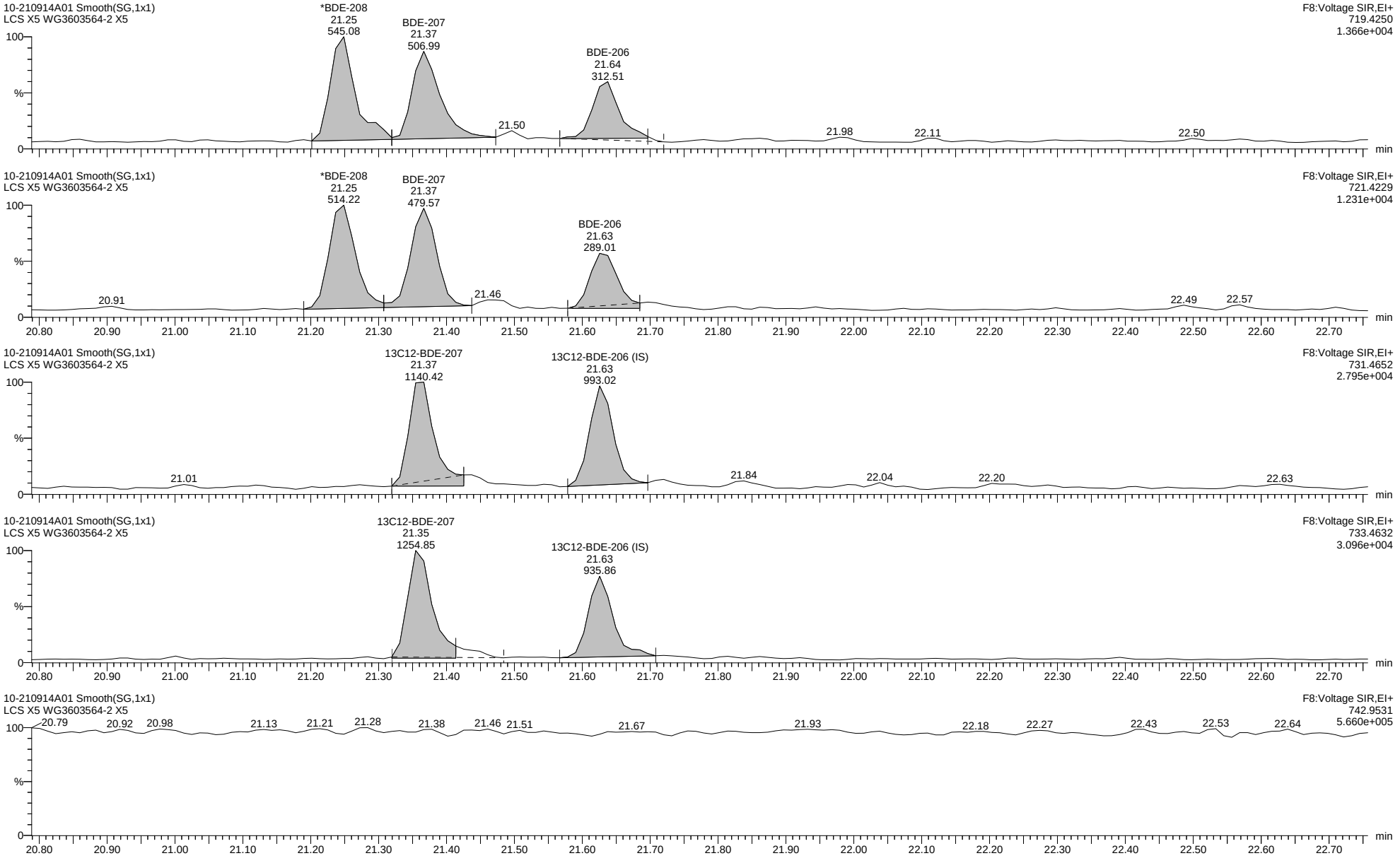

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Printed: Friday, September 17, 2021 12:16:48 Eastern Daylight Time

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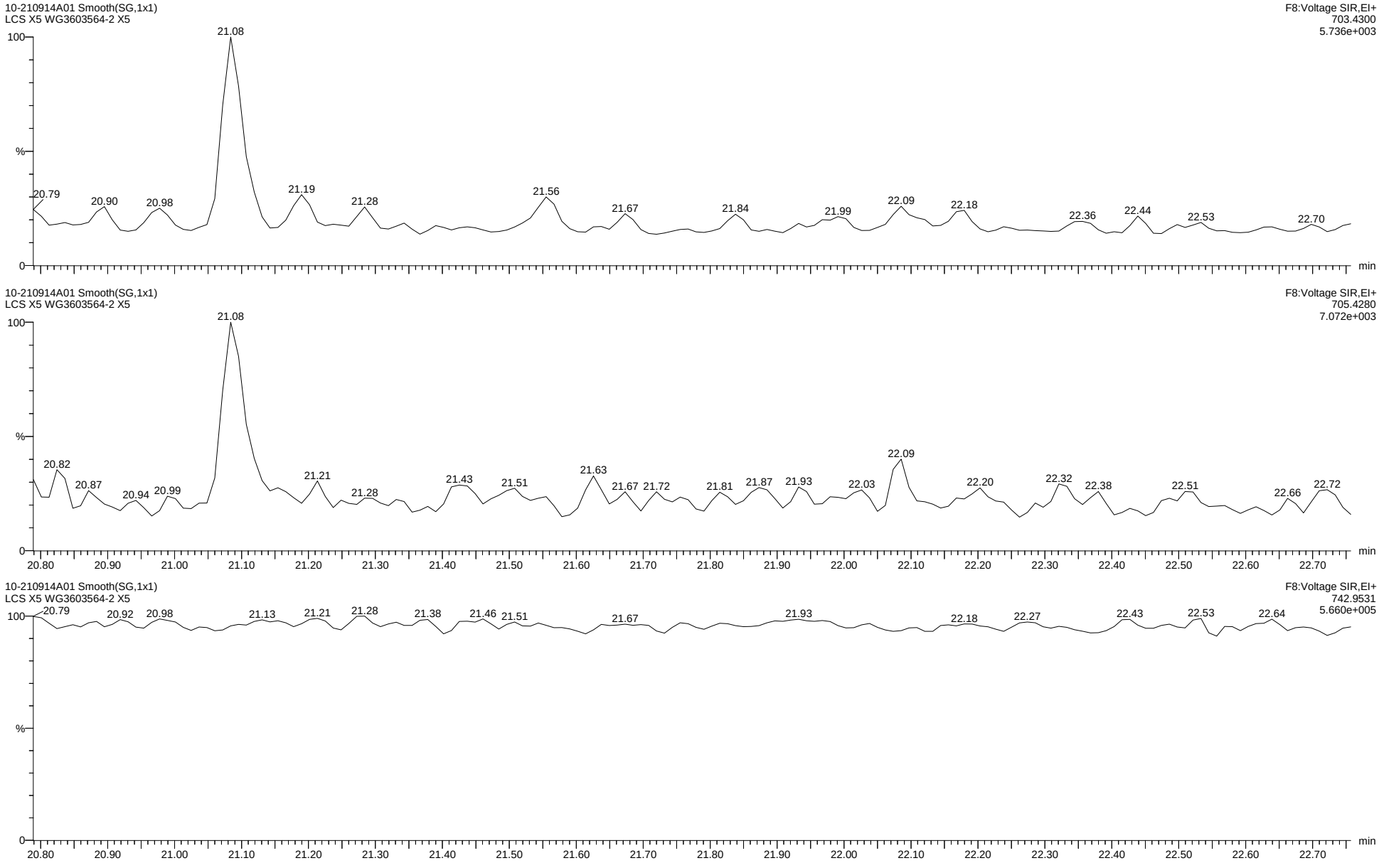

Quantify Sample Template Report **MassLynx MassLynx V4.1 SCN 901**

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Printed: Friday, September 17, 2021 12:16:48 Eastern Daylight Time

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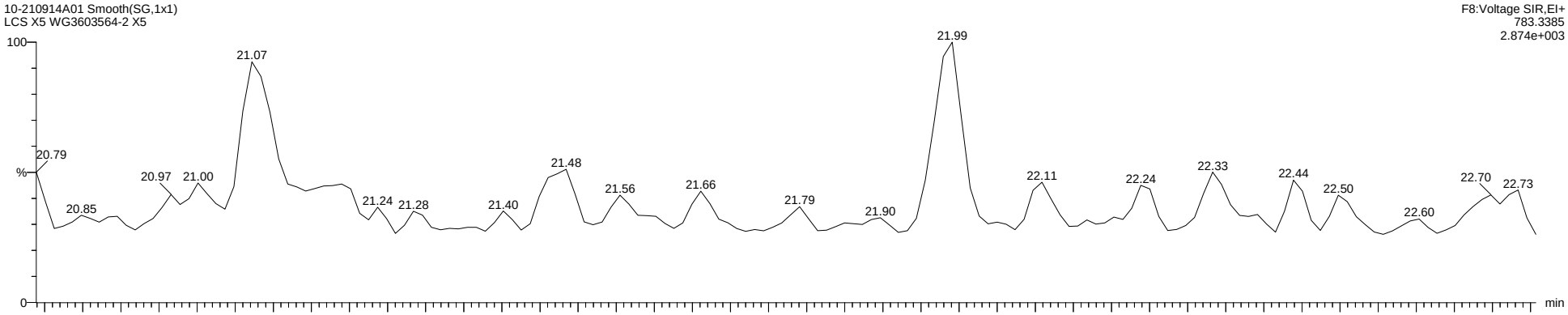

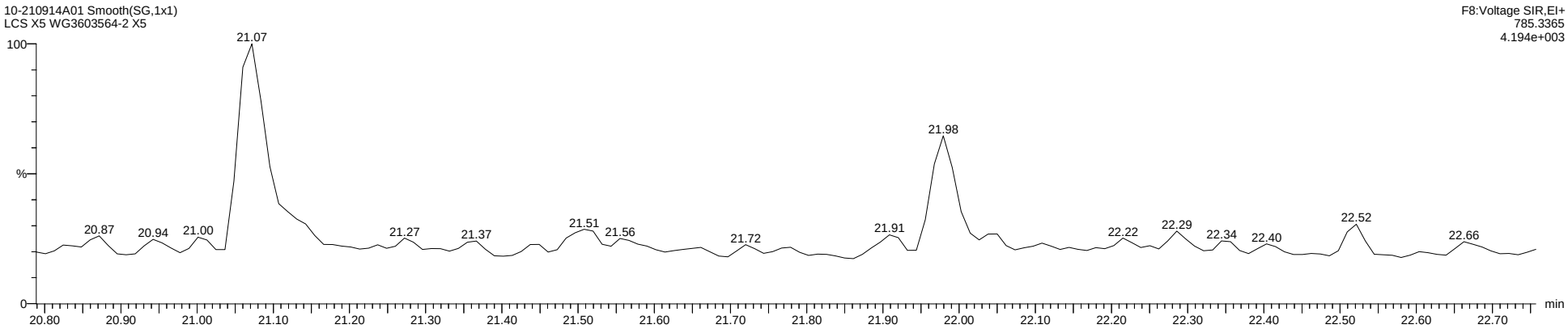

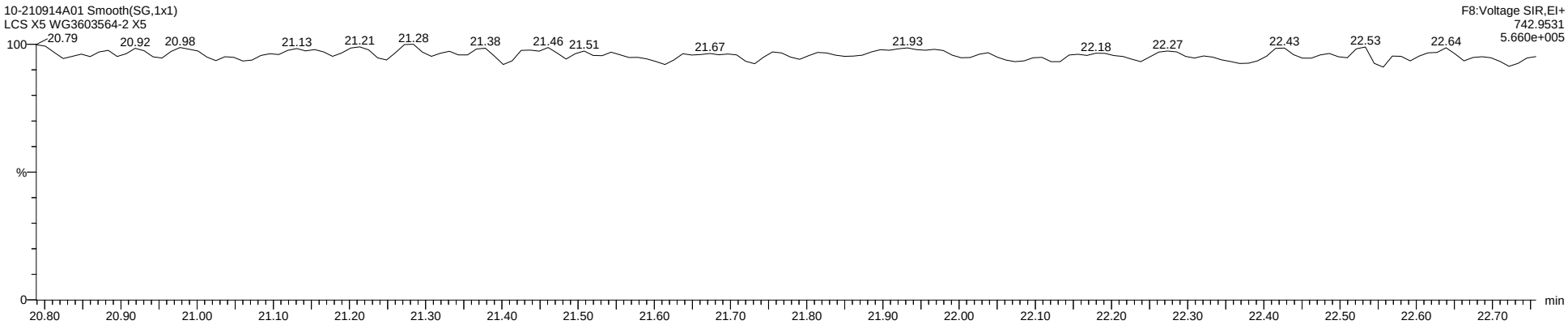

Quantify Sample Template Report **MassLynx MassLynx V4.1 SCN 901**

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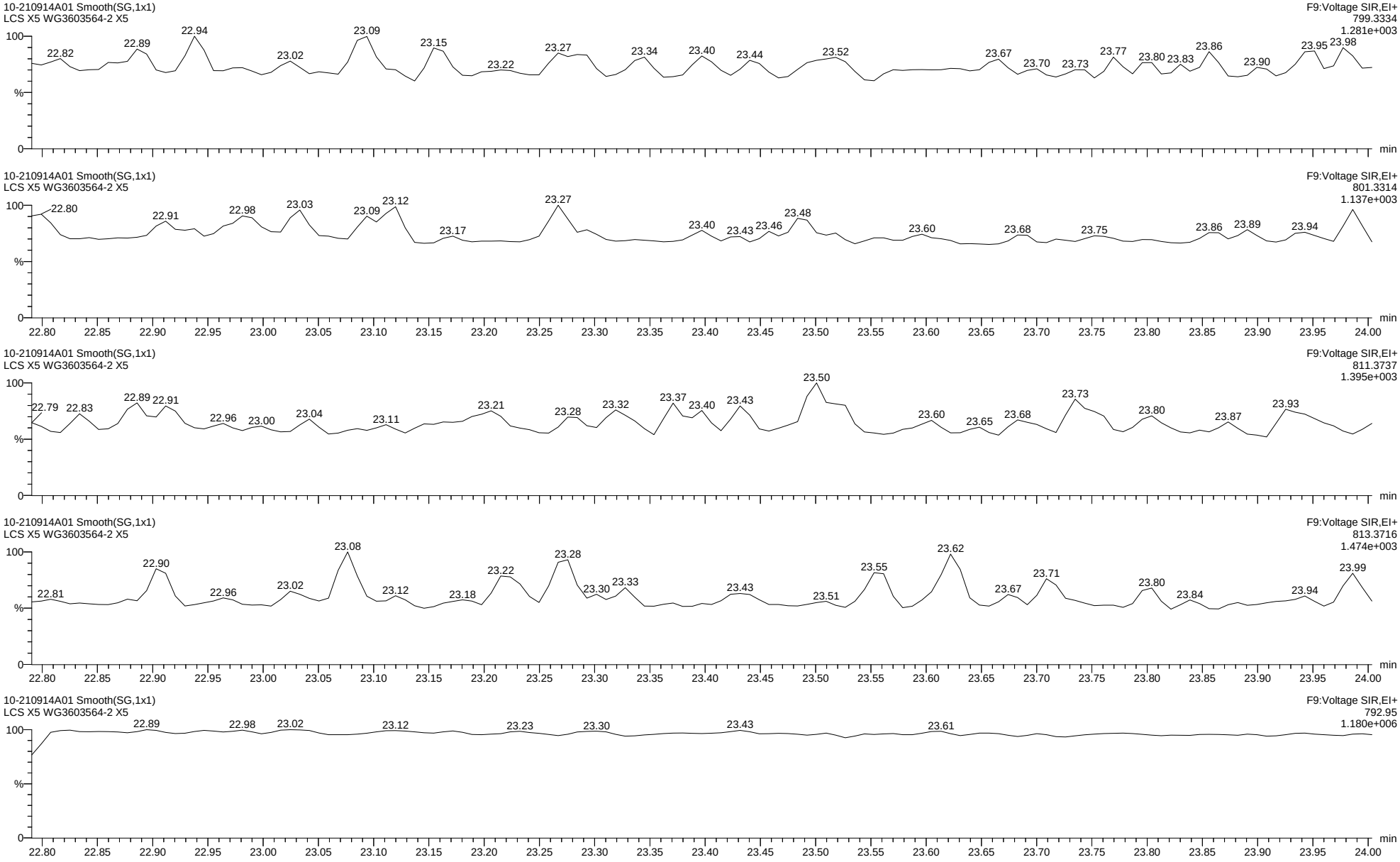

Quantify Sample Template Report **MassLynx MassLynx V4.1 SCN 901**

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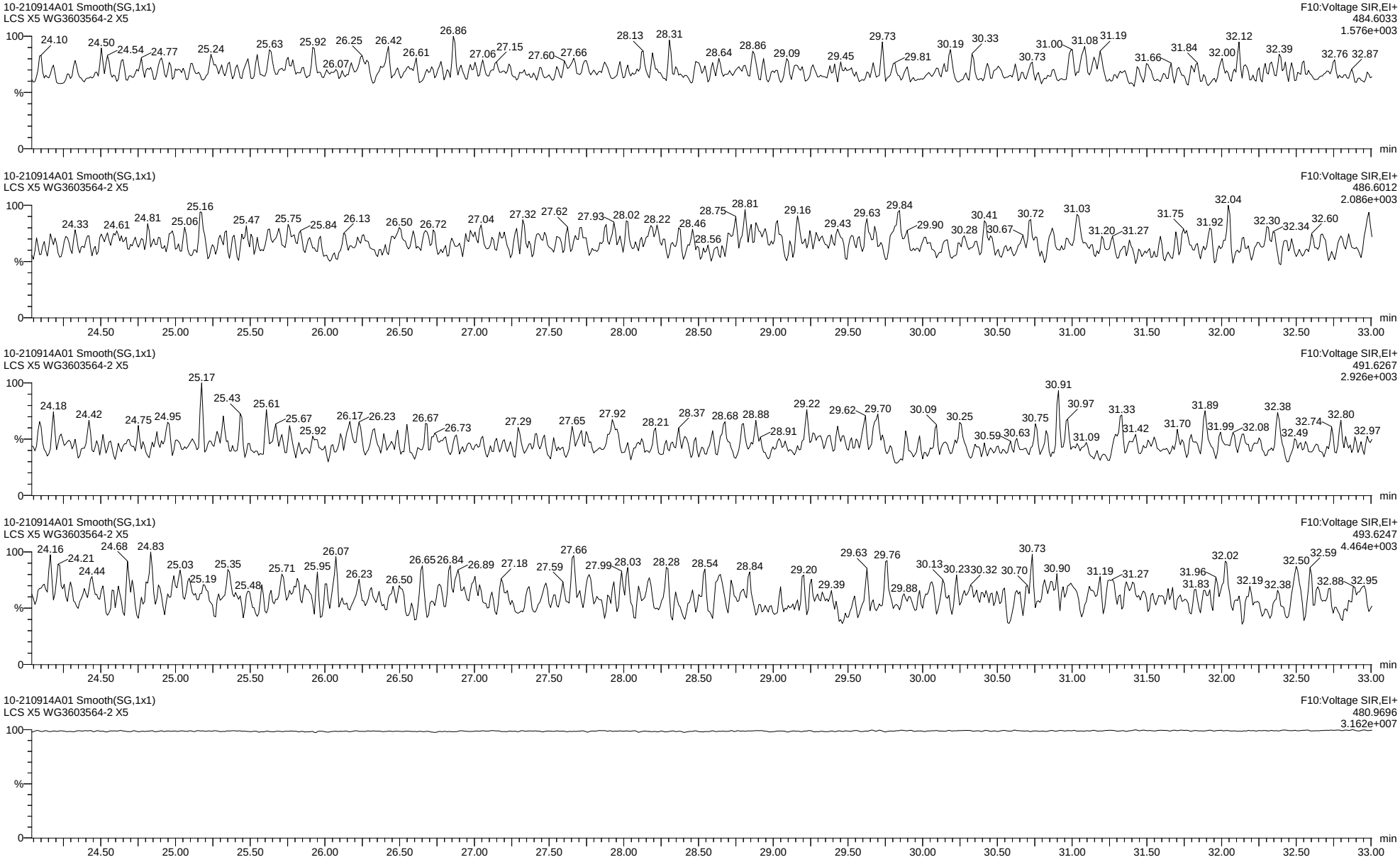

Quantify Sample Template Report **MassLynx MassLynx V4.1 SCN 901**

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Printed: Friday, September 17, 2021 12:16:48 Eastern Daylight Time

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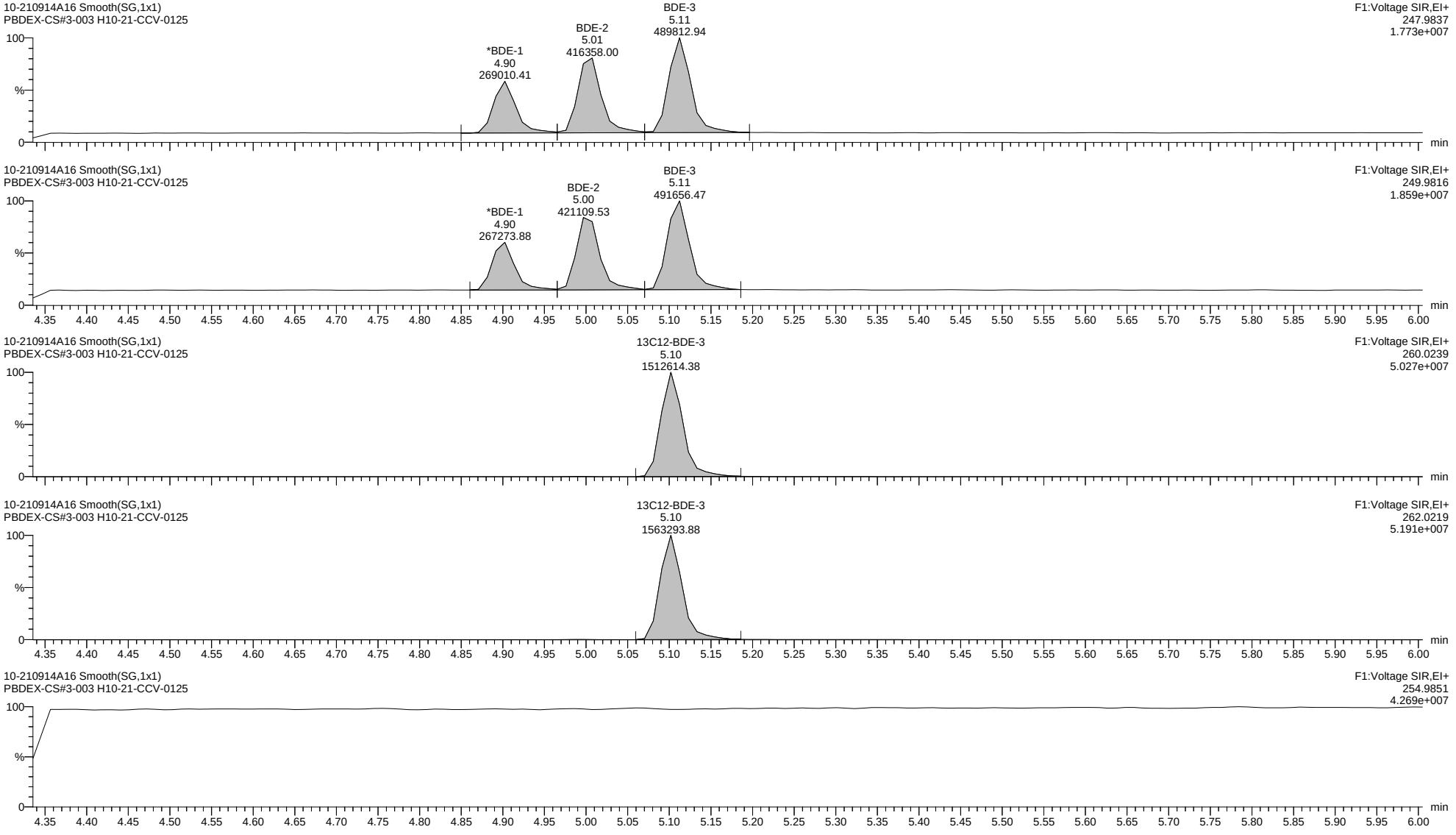

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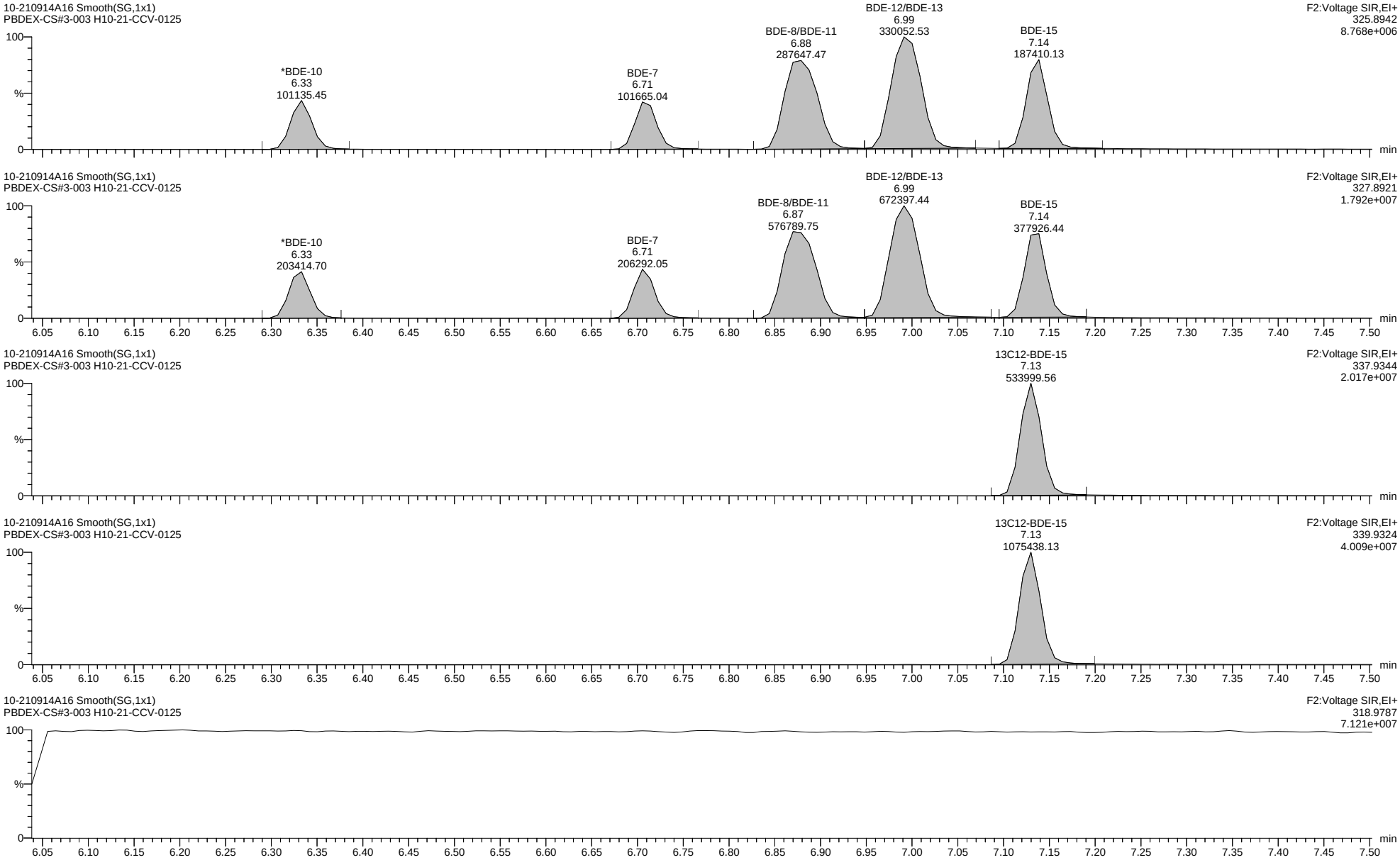

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Last Altered: Friday, September 17, 2021 11:47:47 Eastern Daylight Time
Printed: Friday, September 17, 2021 12:16:48 Eastern Daylight Time

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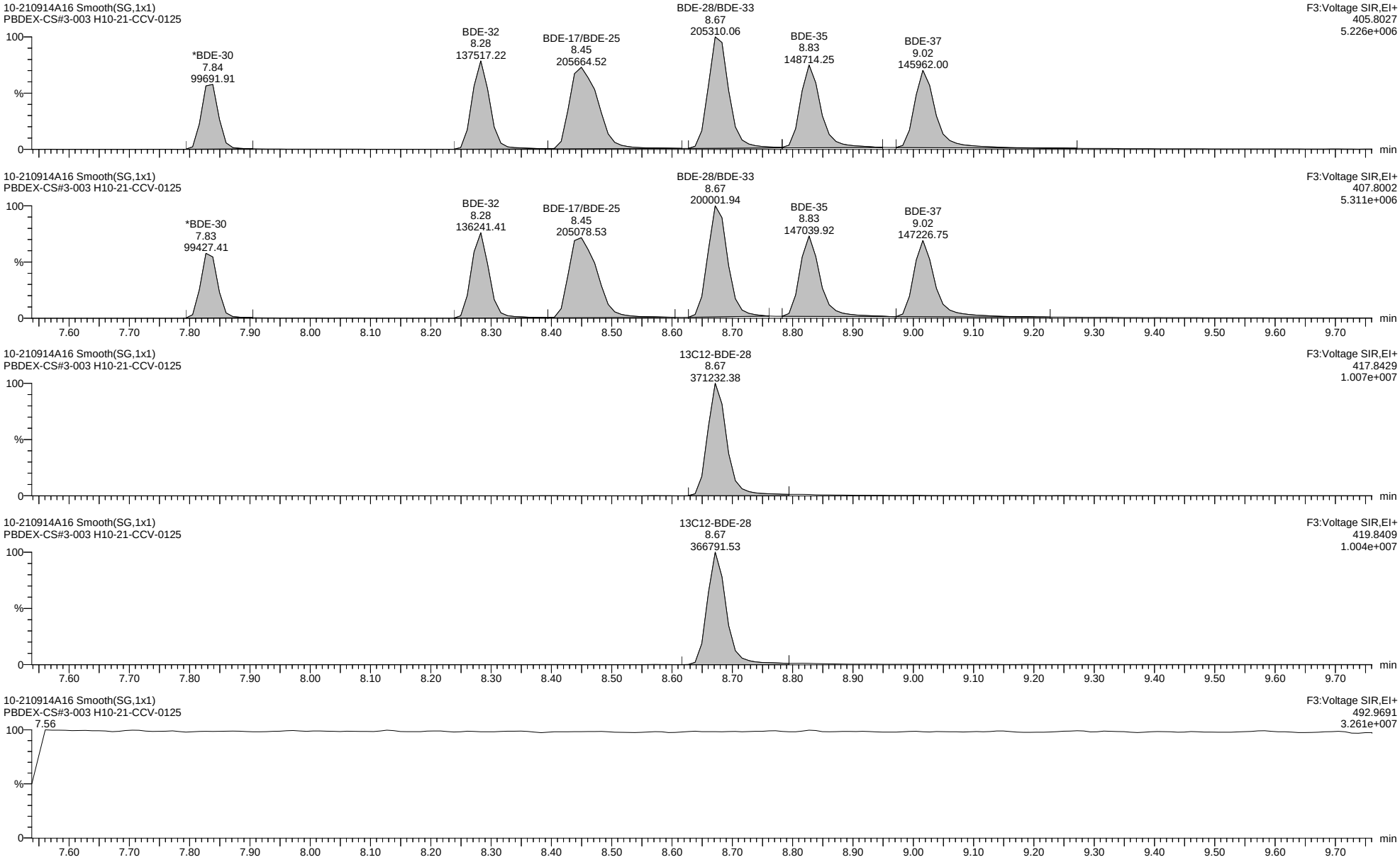

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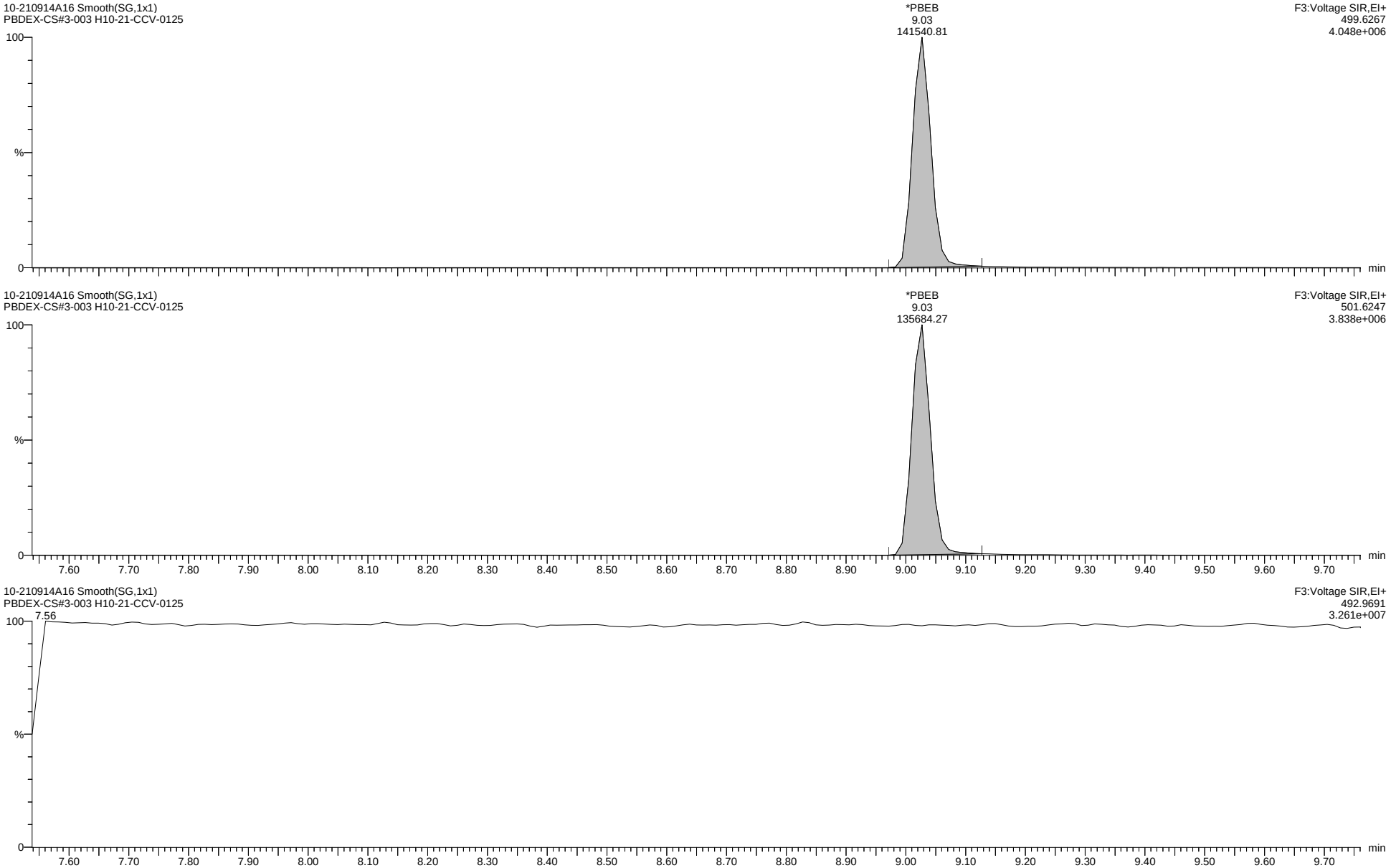

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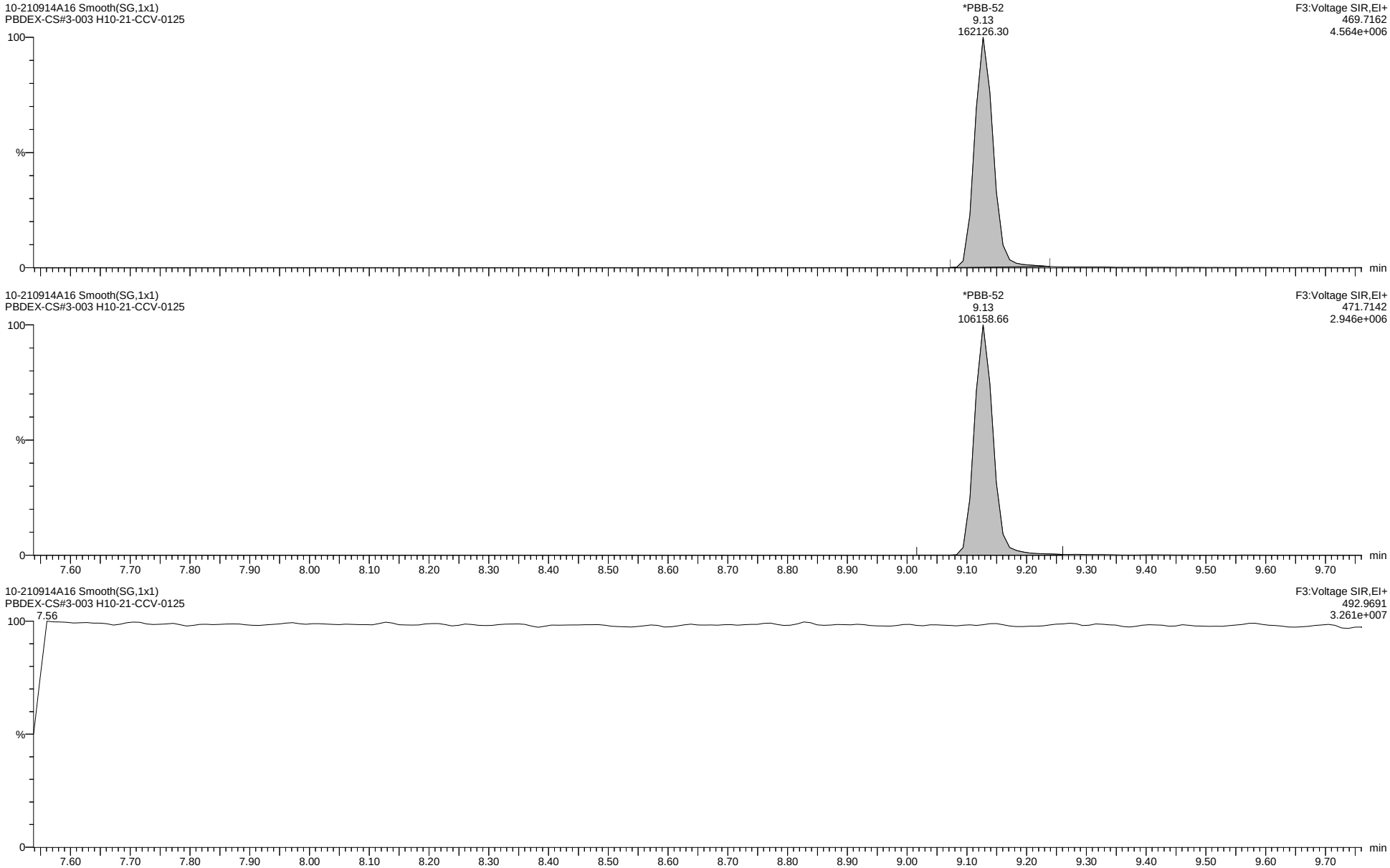

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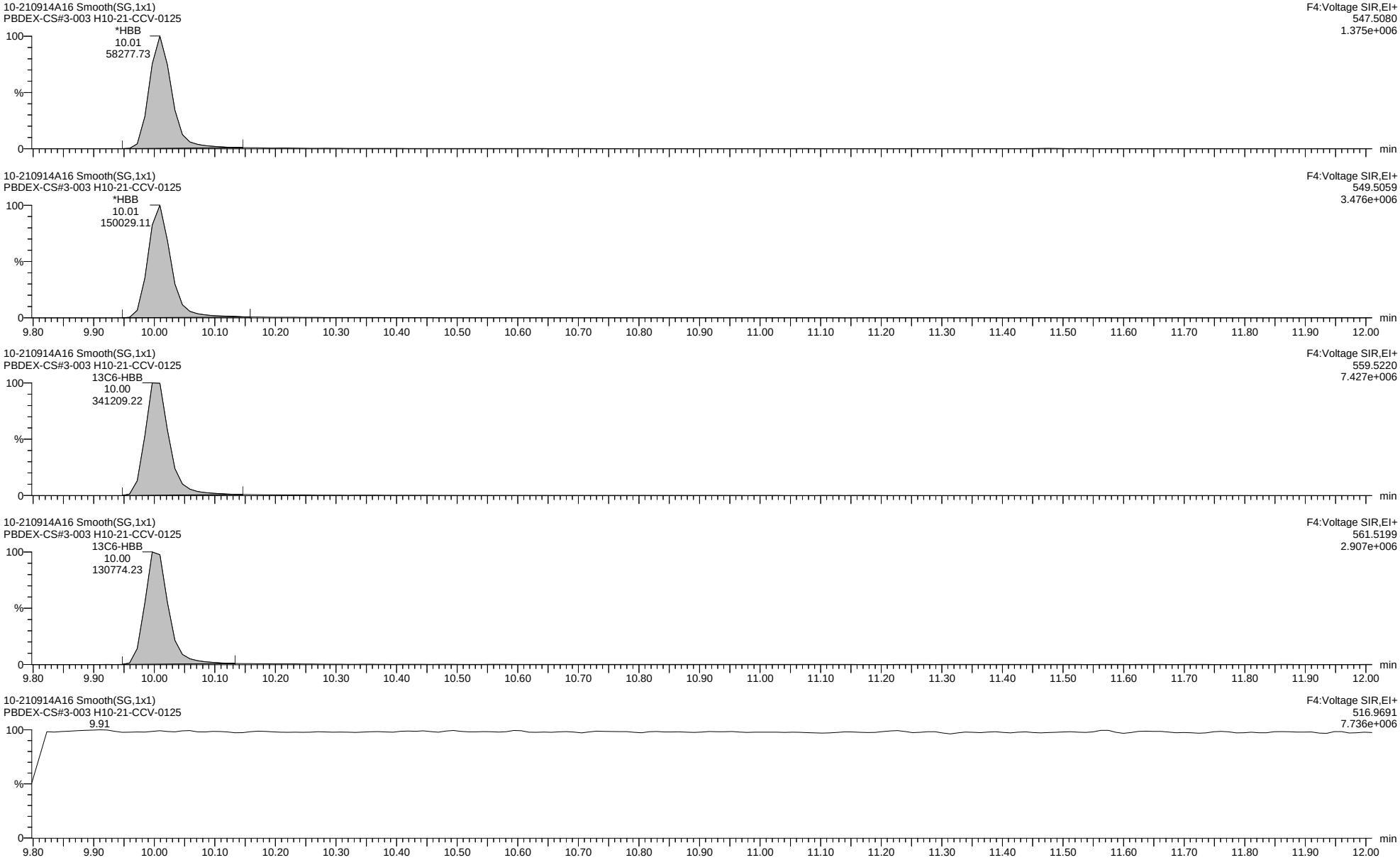

Quantify Sample Template Report **MassLynx MassLynx V4.1 SCN 901**

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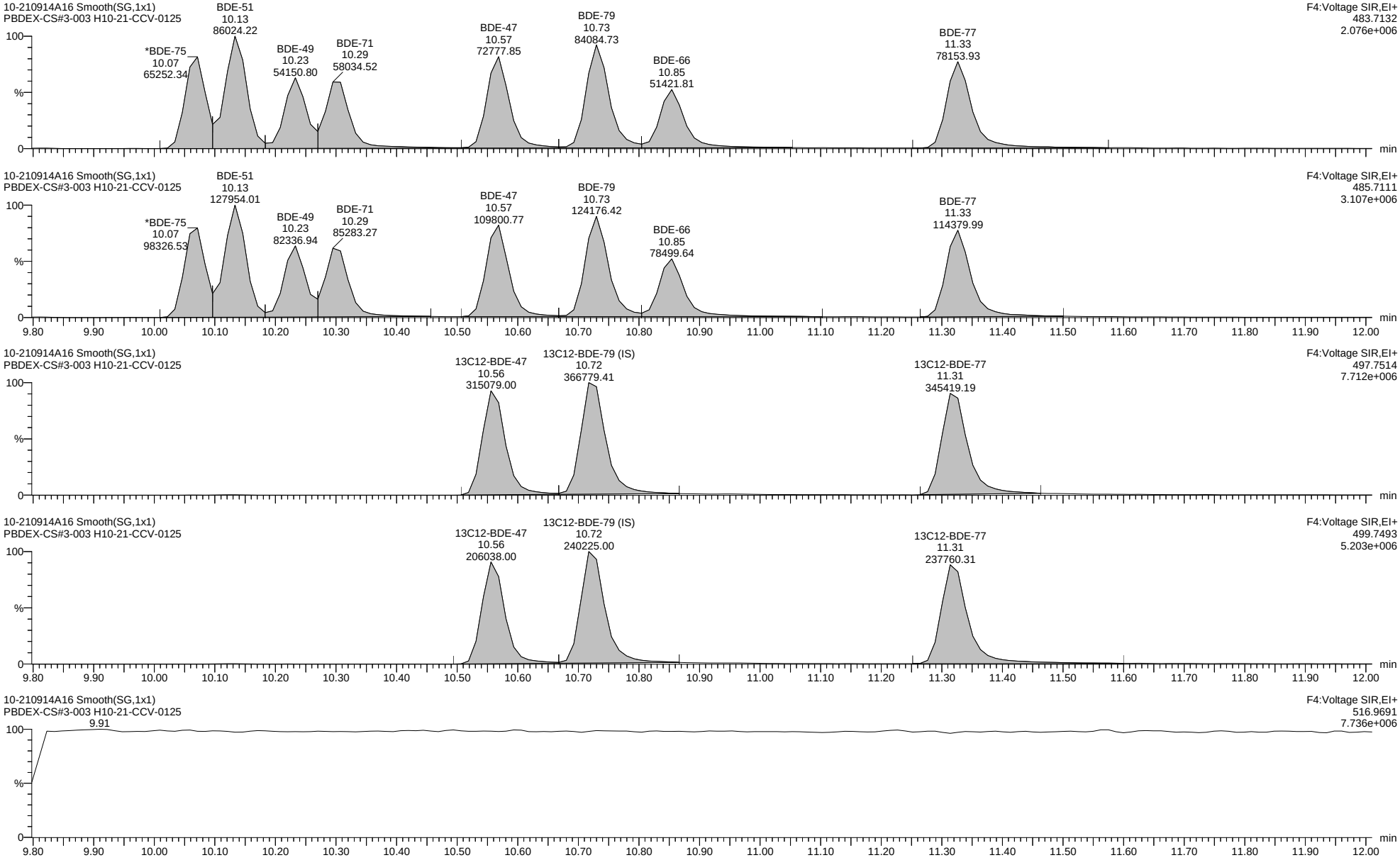

Quantify Sample Template Report **MassLynx MassLynx V4.1 SCN 901**

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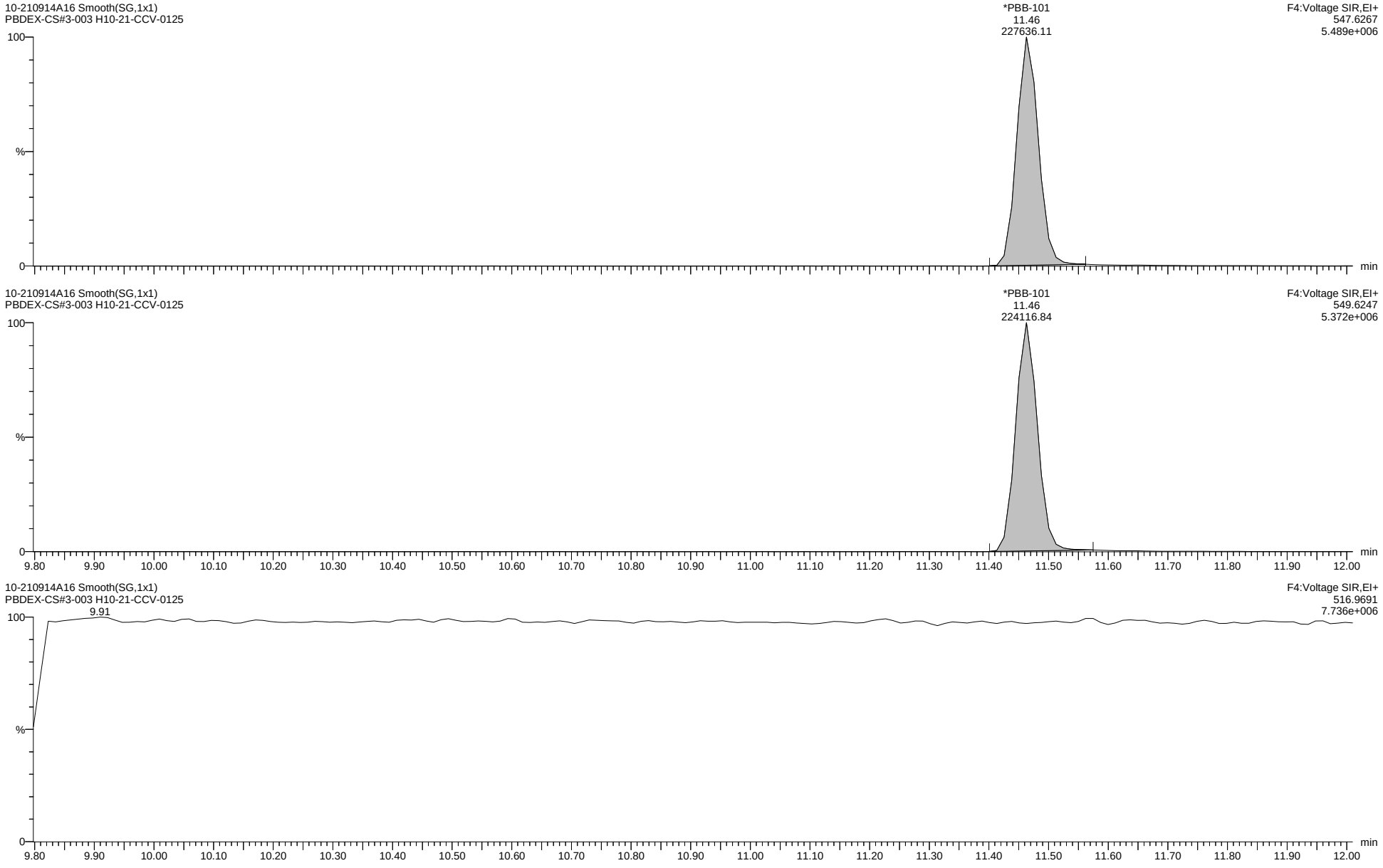

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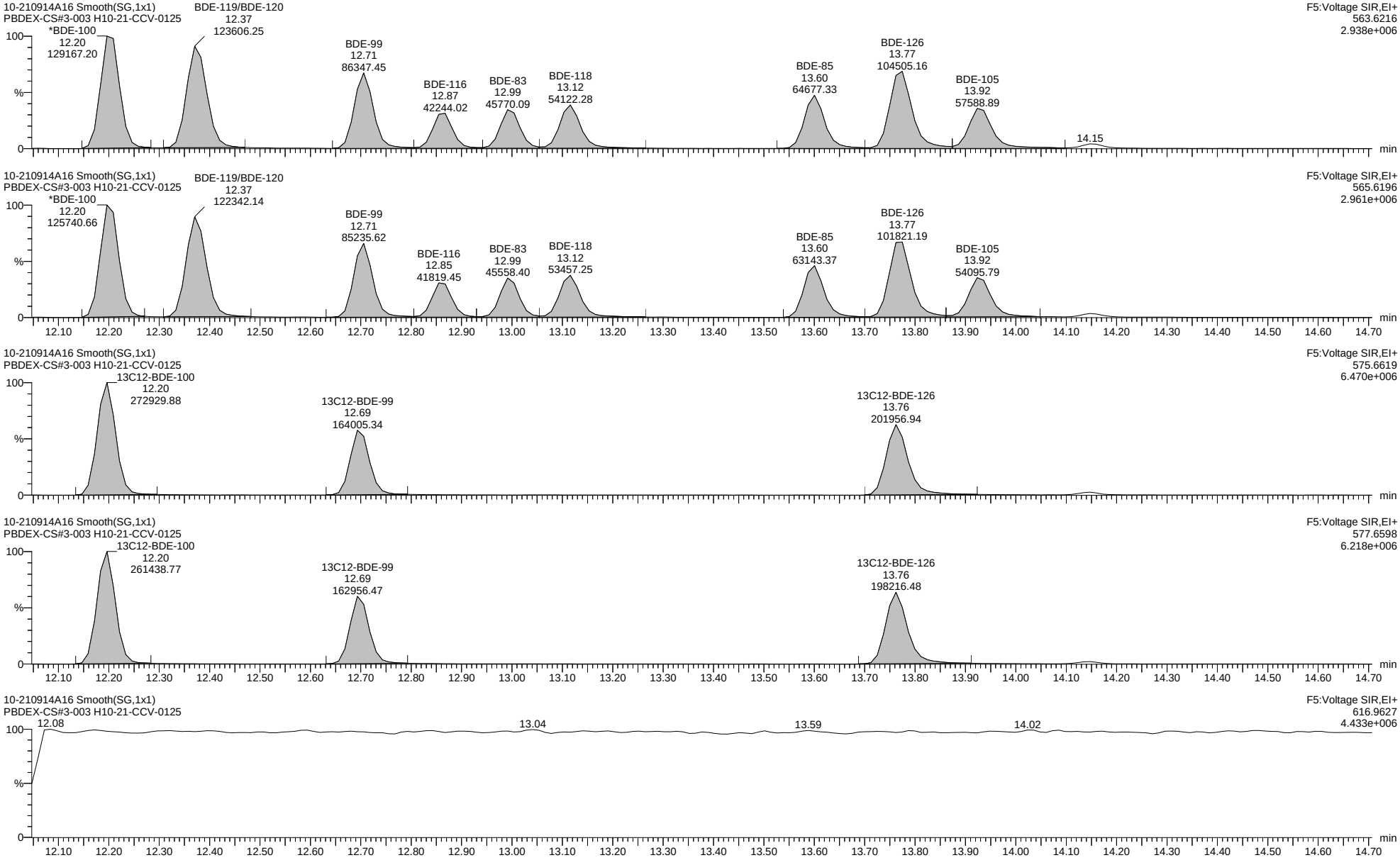

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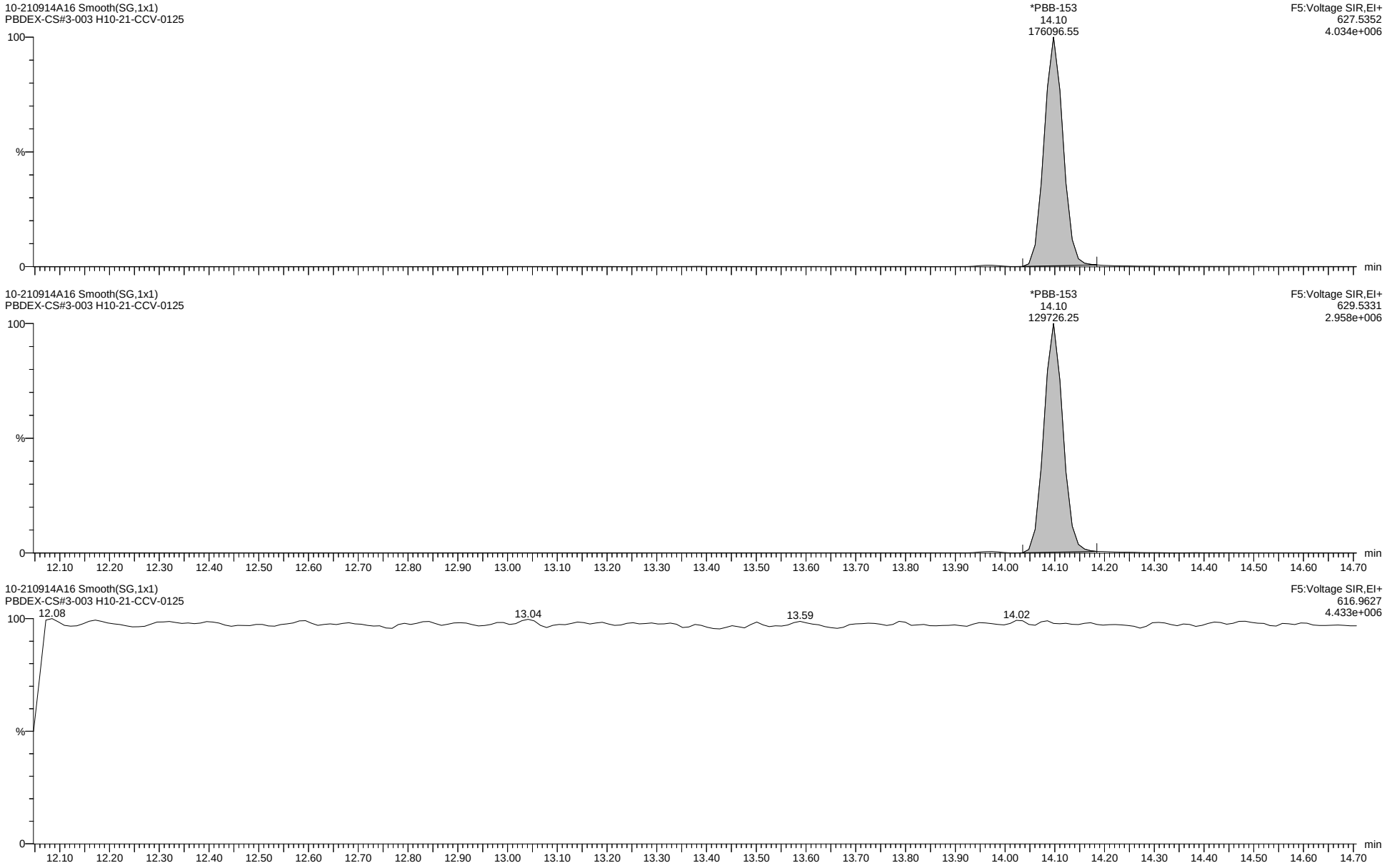

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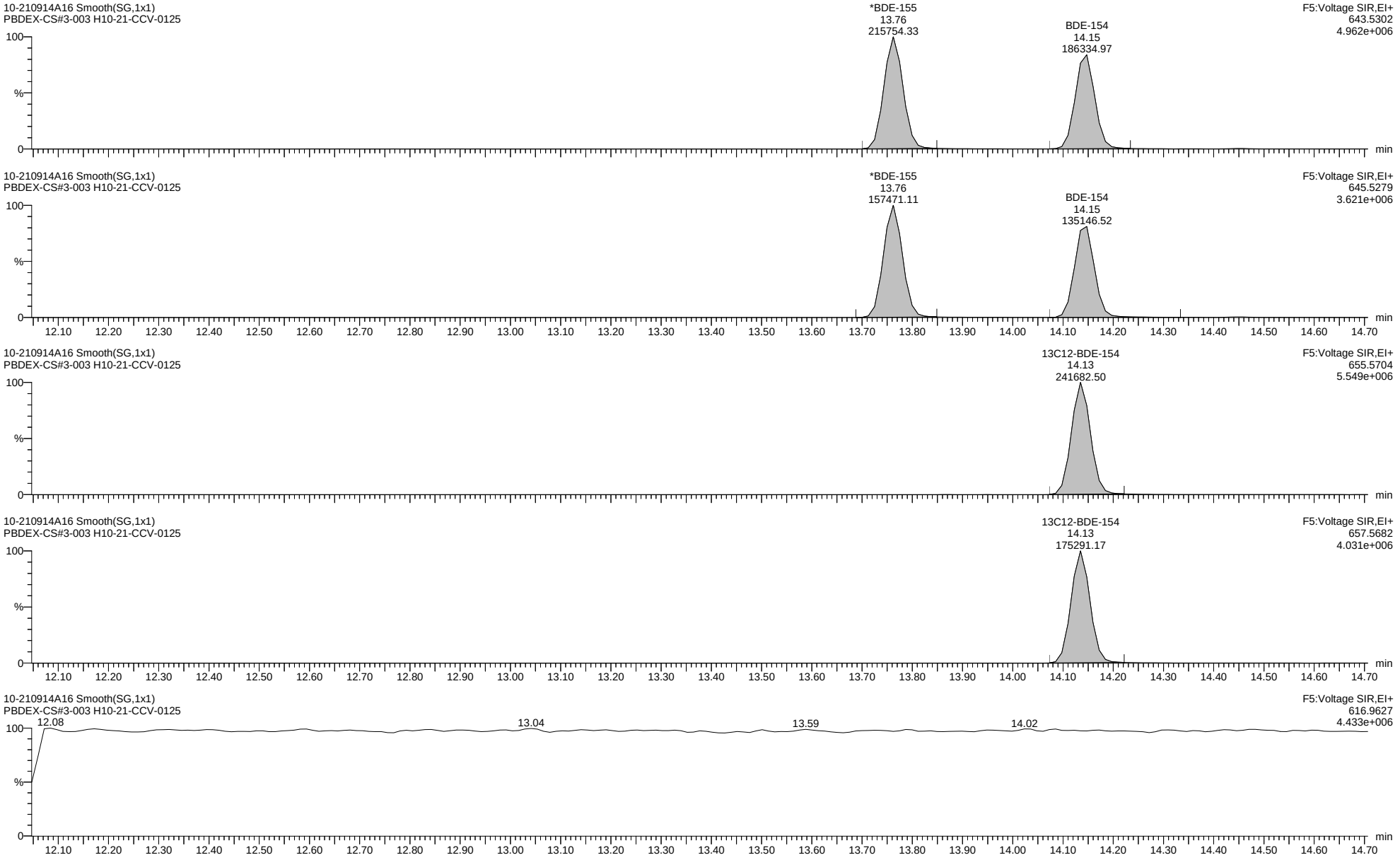

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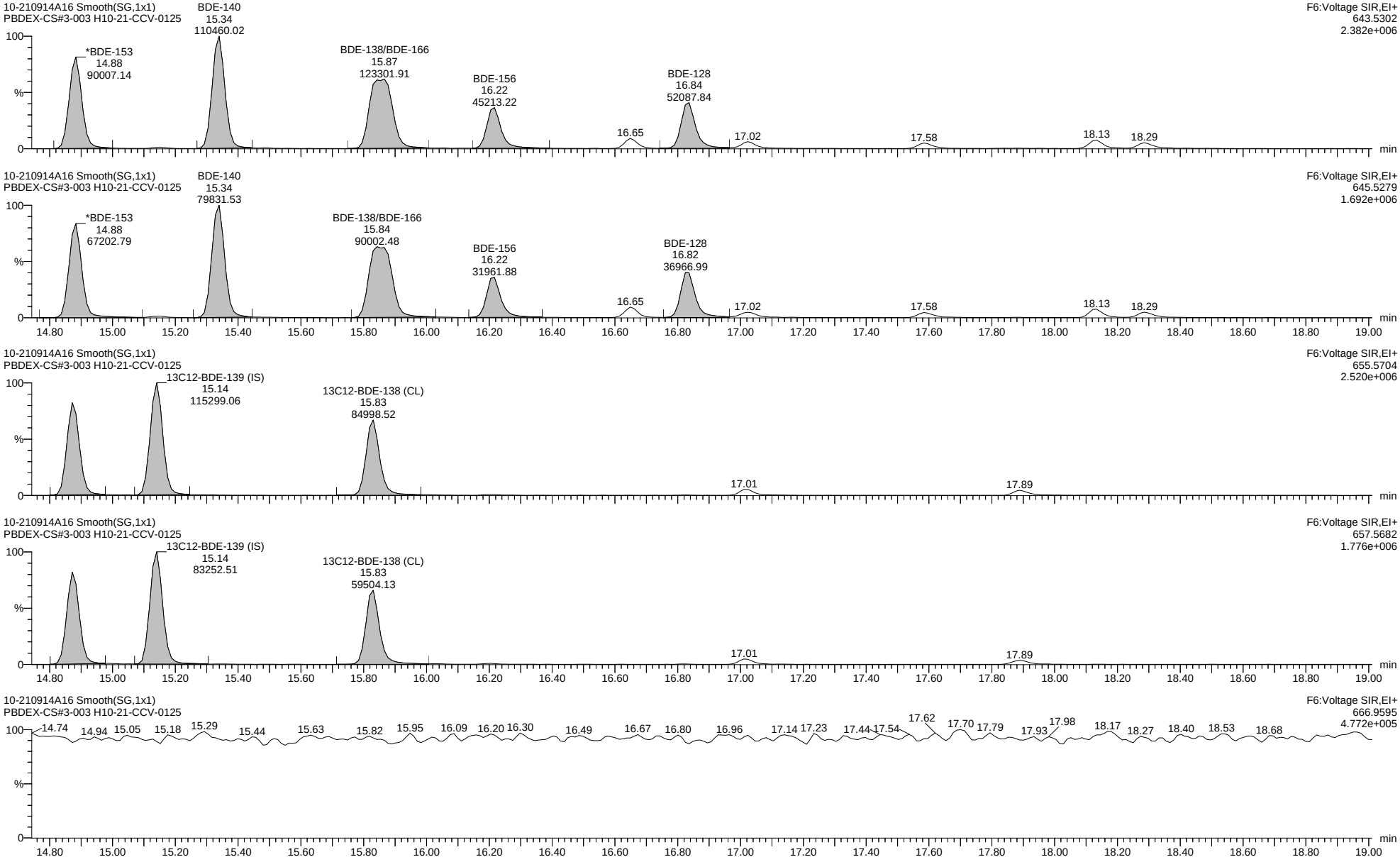

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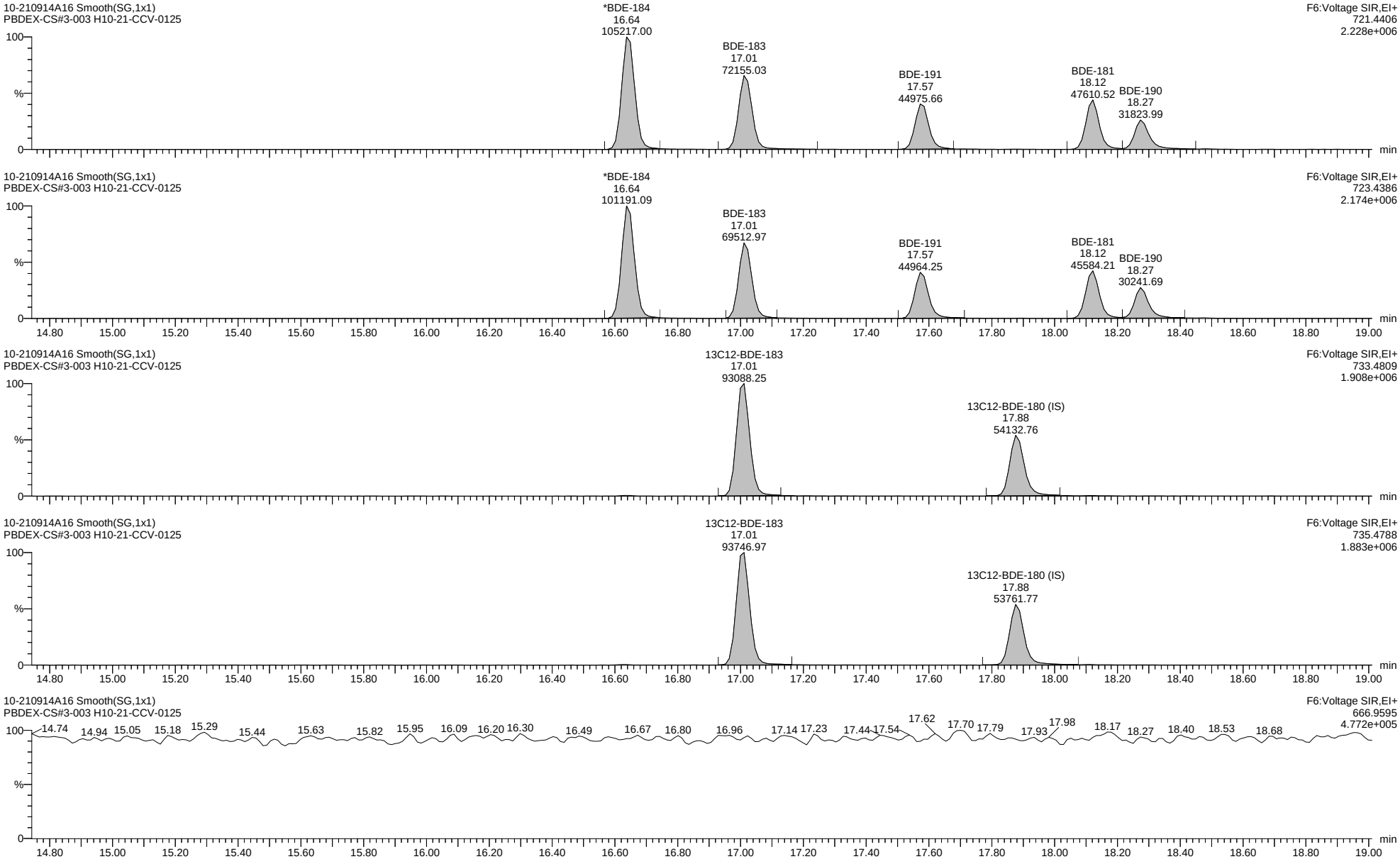

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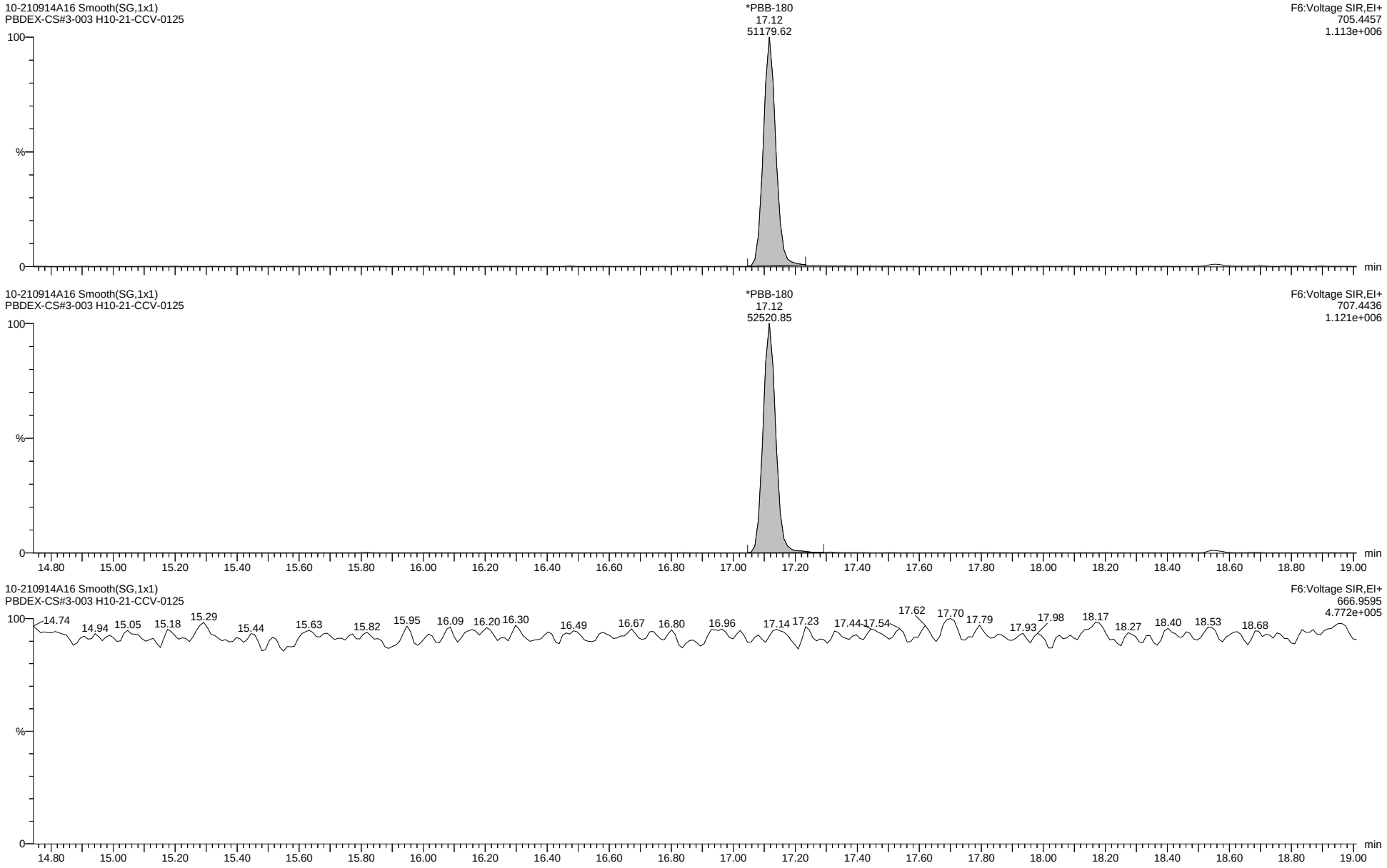

Quantify Sample Template Report **MassLynx MassLynx V4.1 SCN 901**

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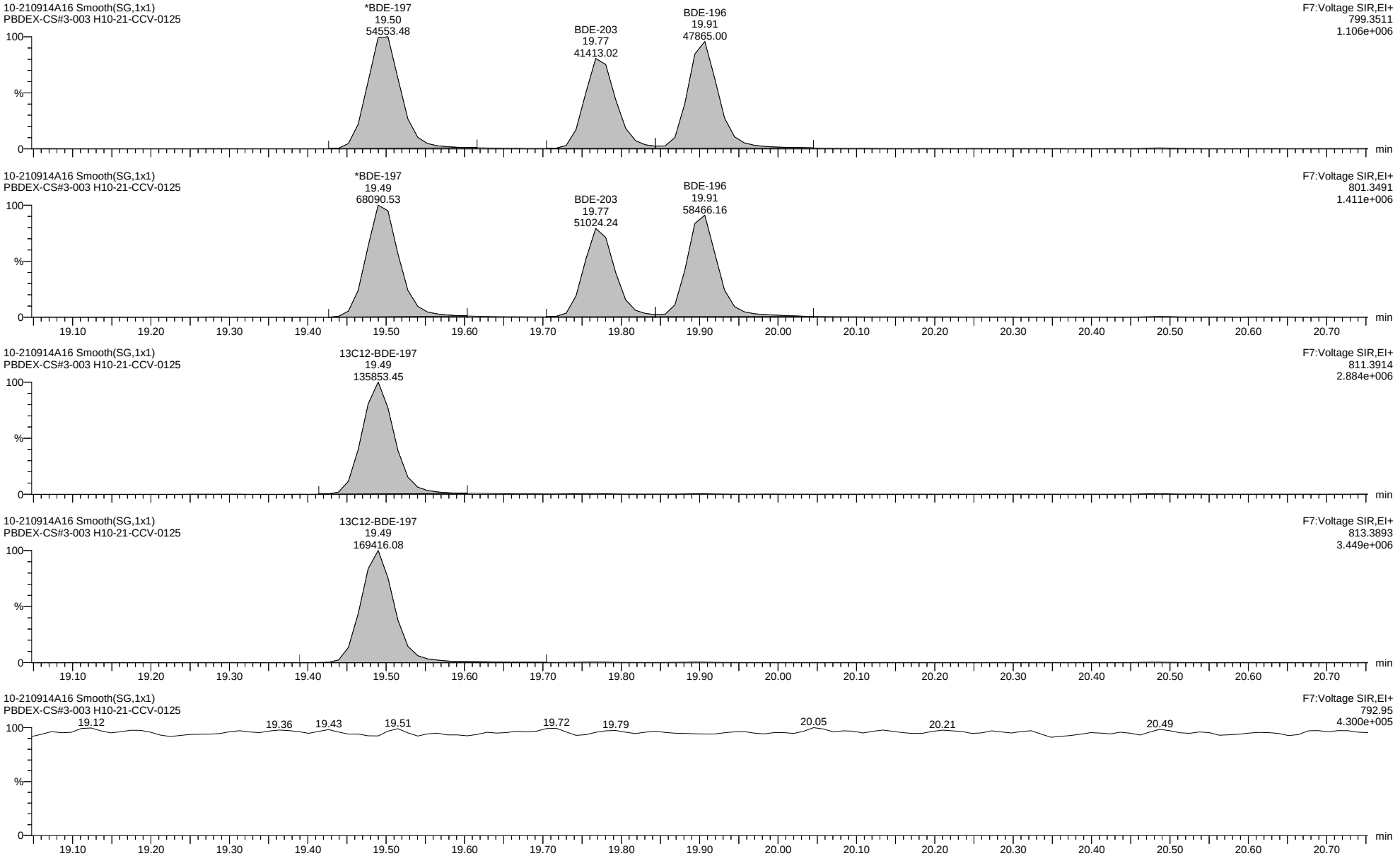

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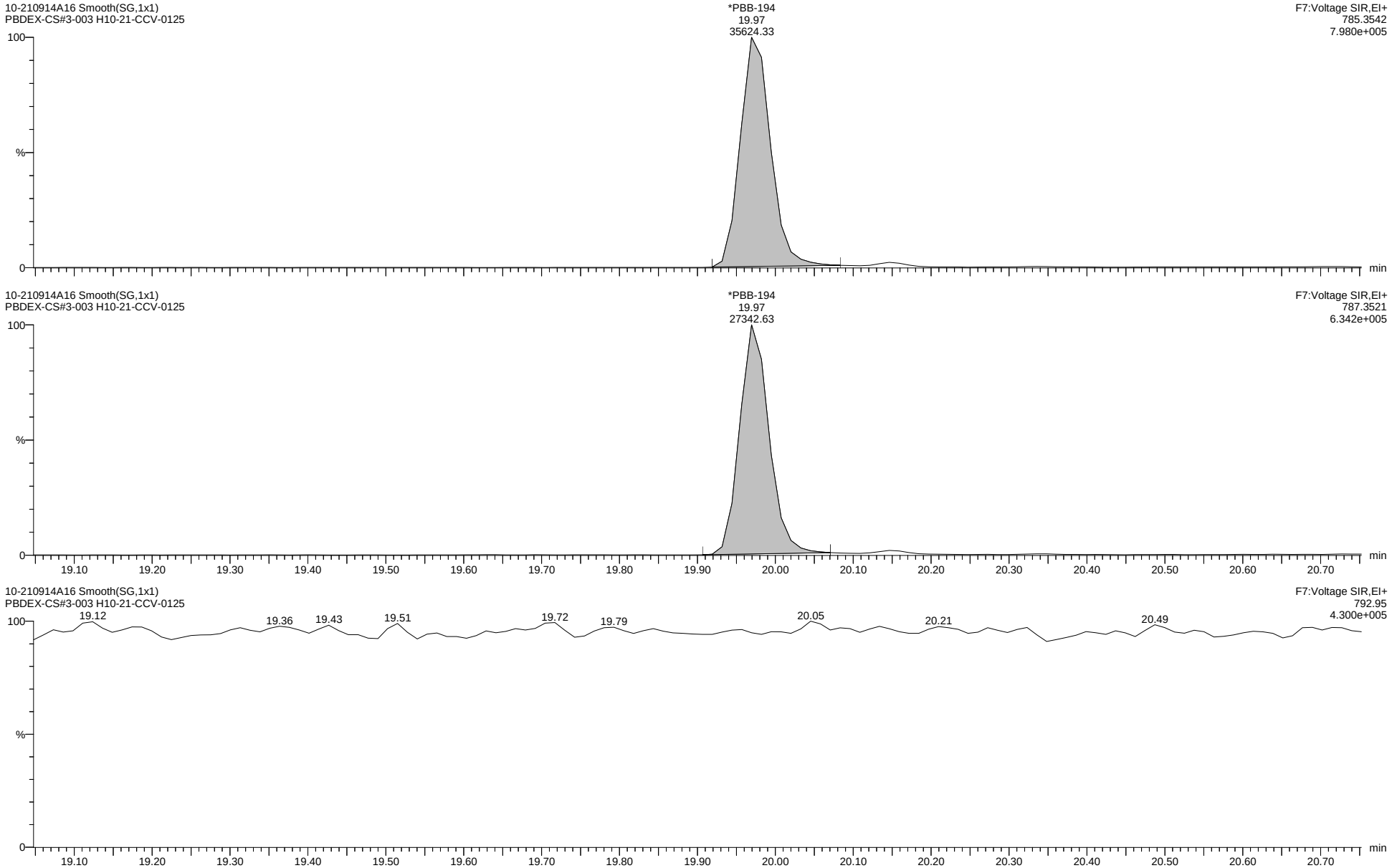

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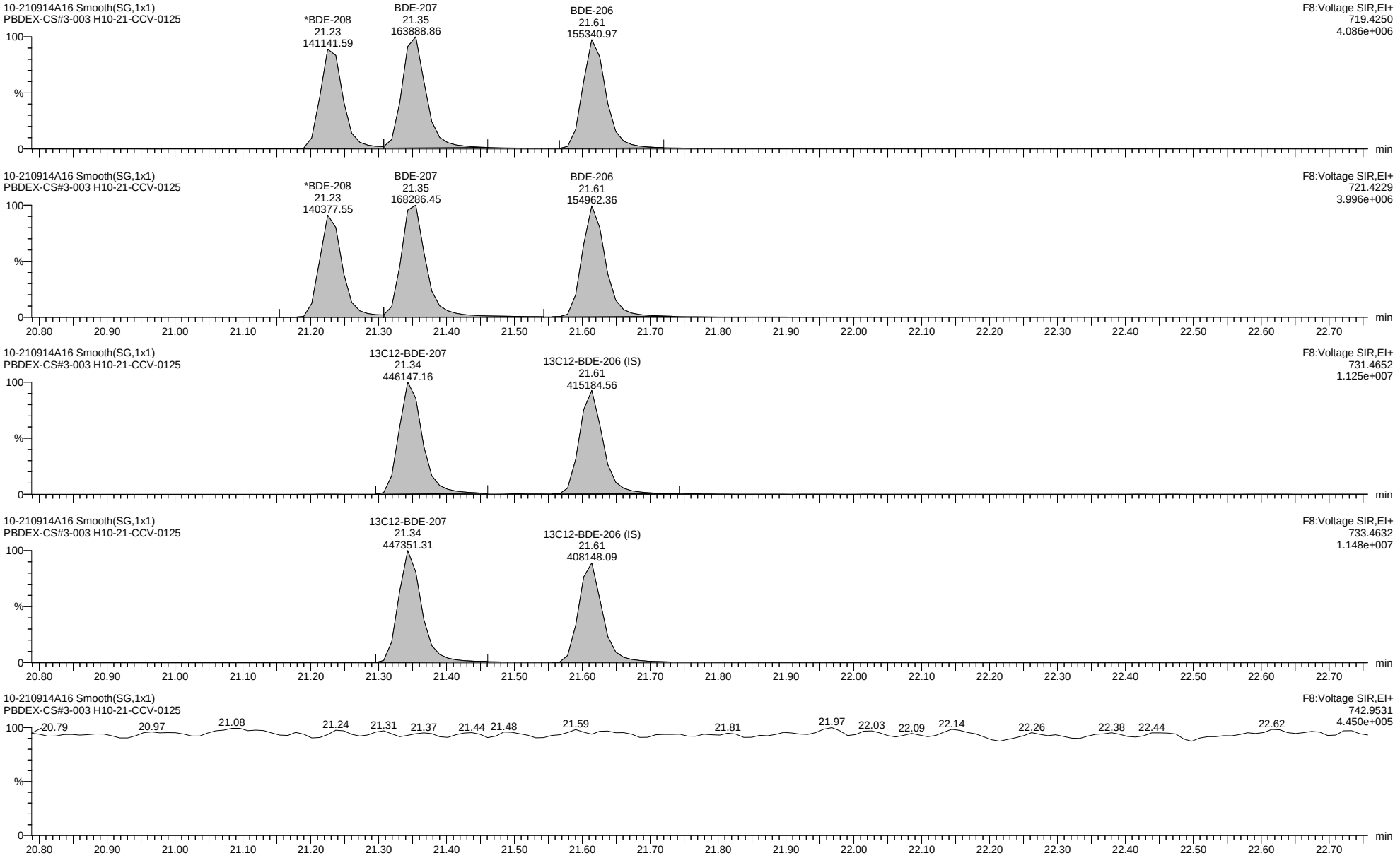

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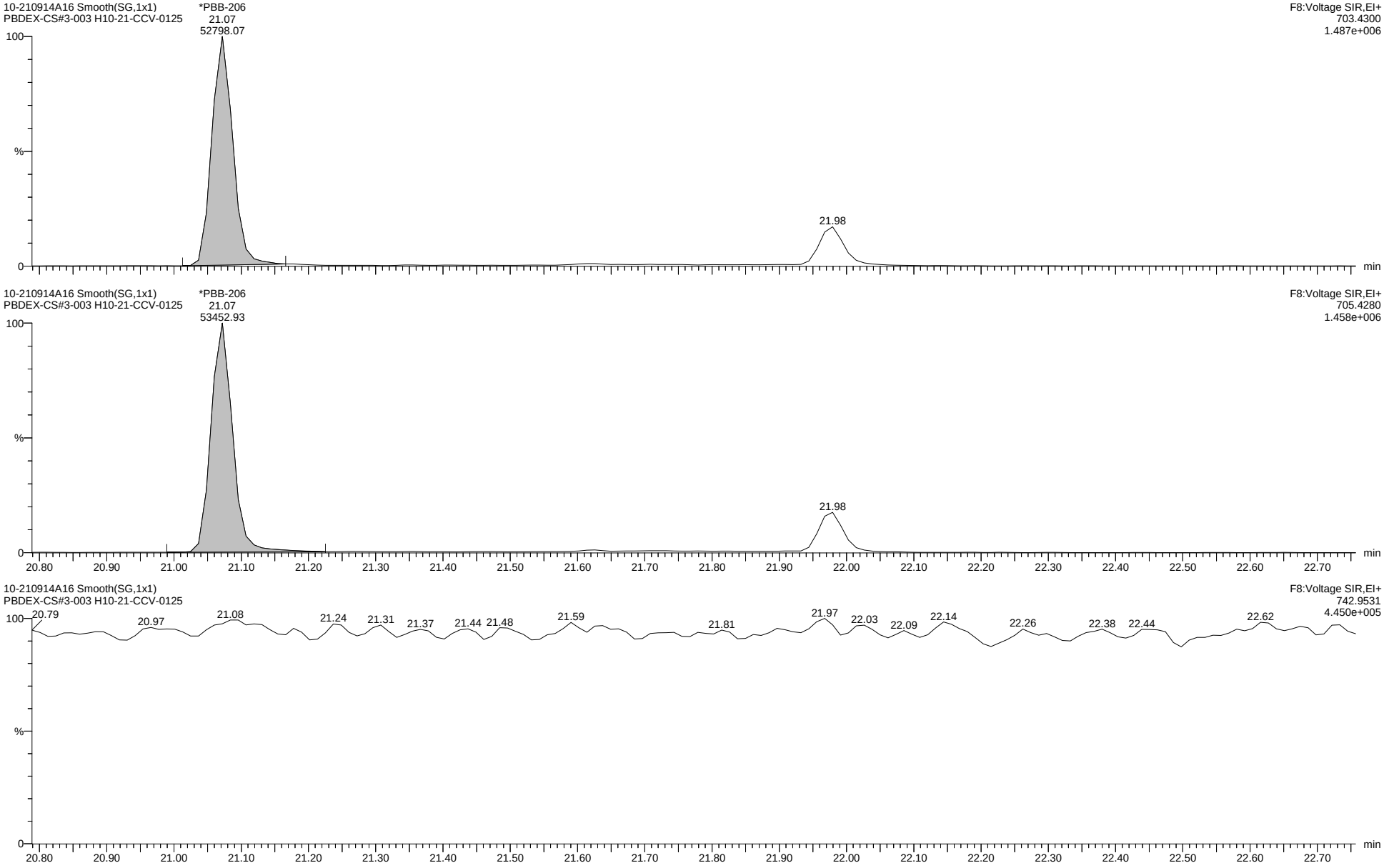

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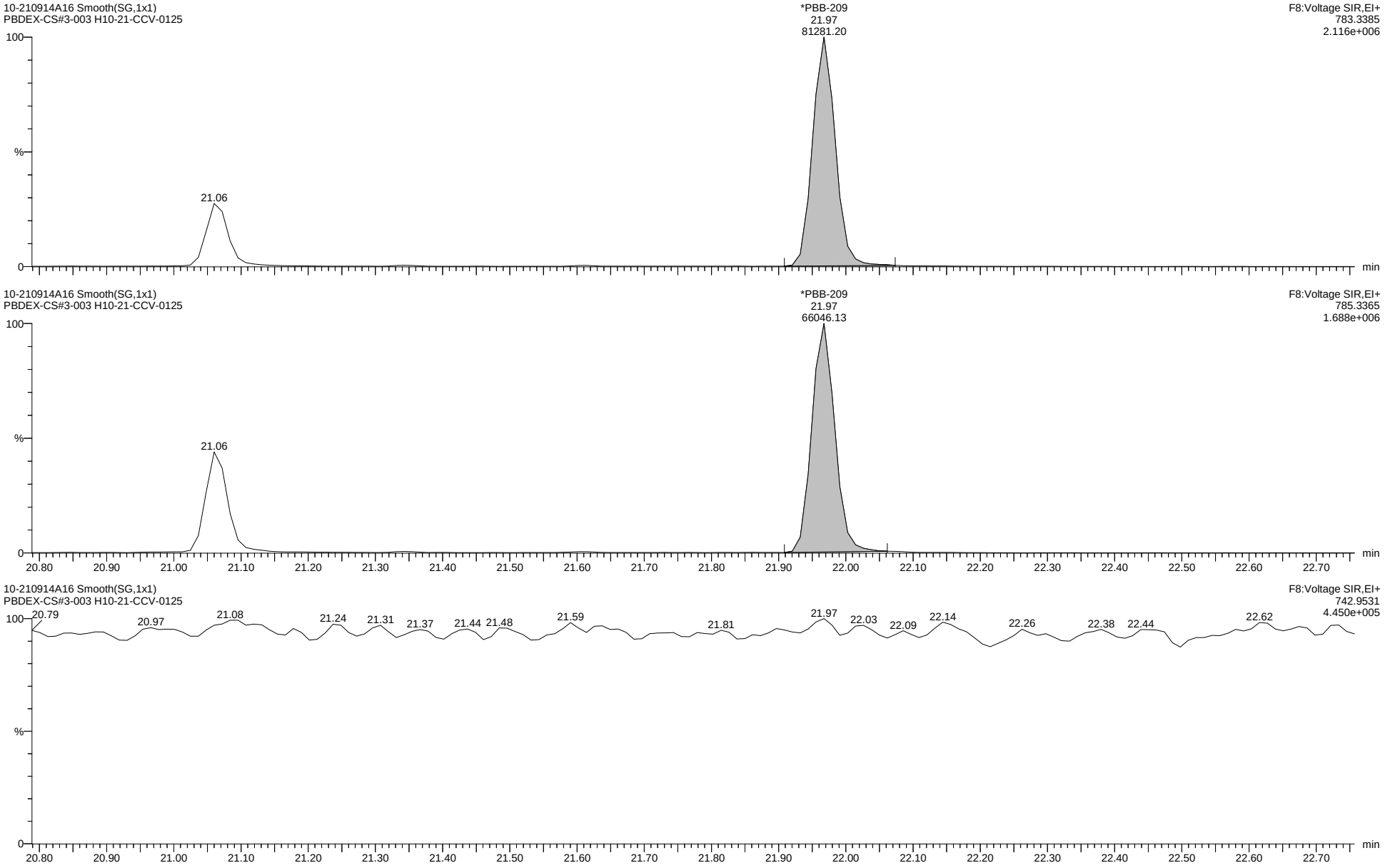

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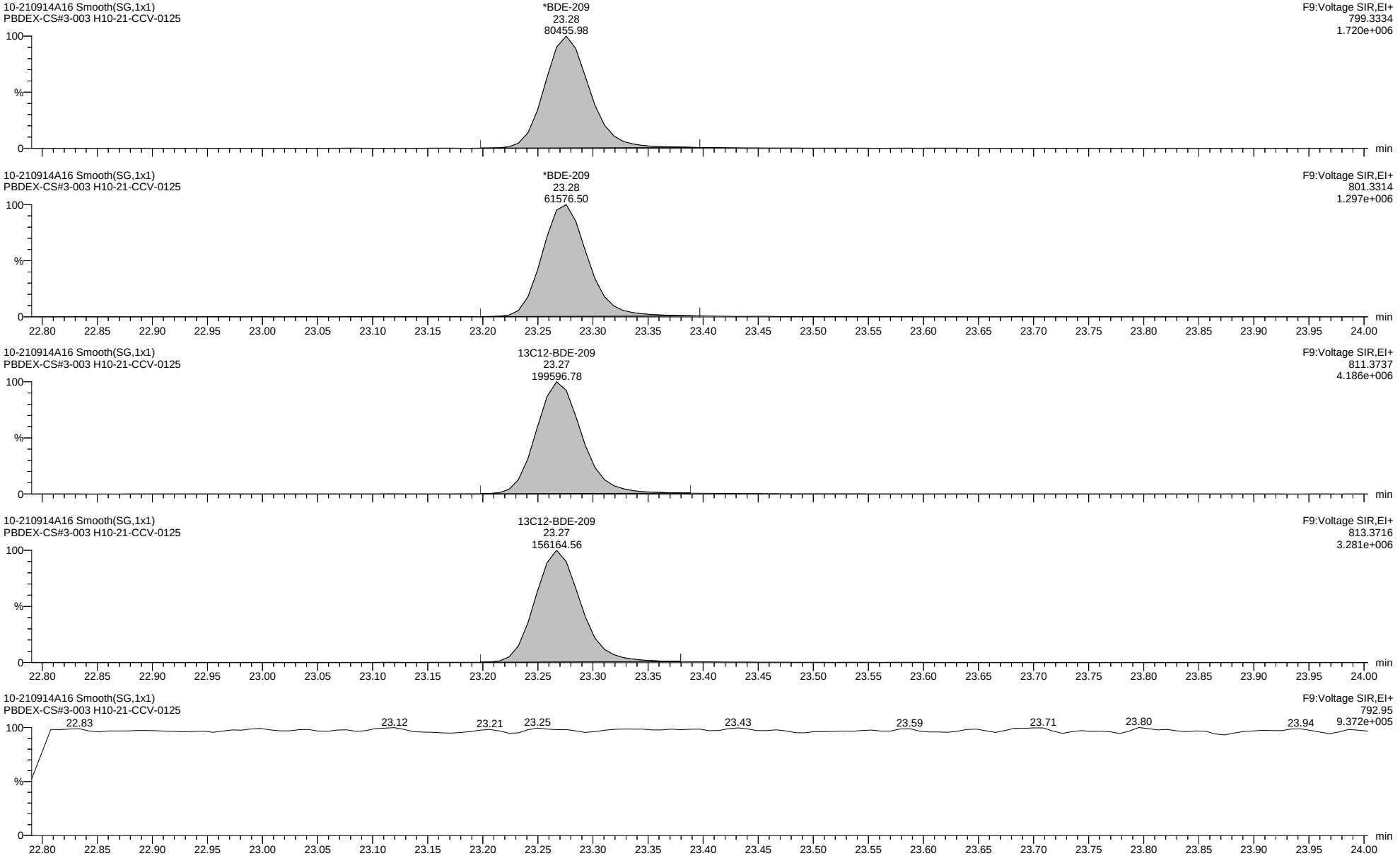

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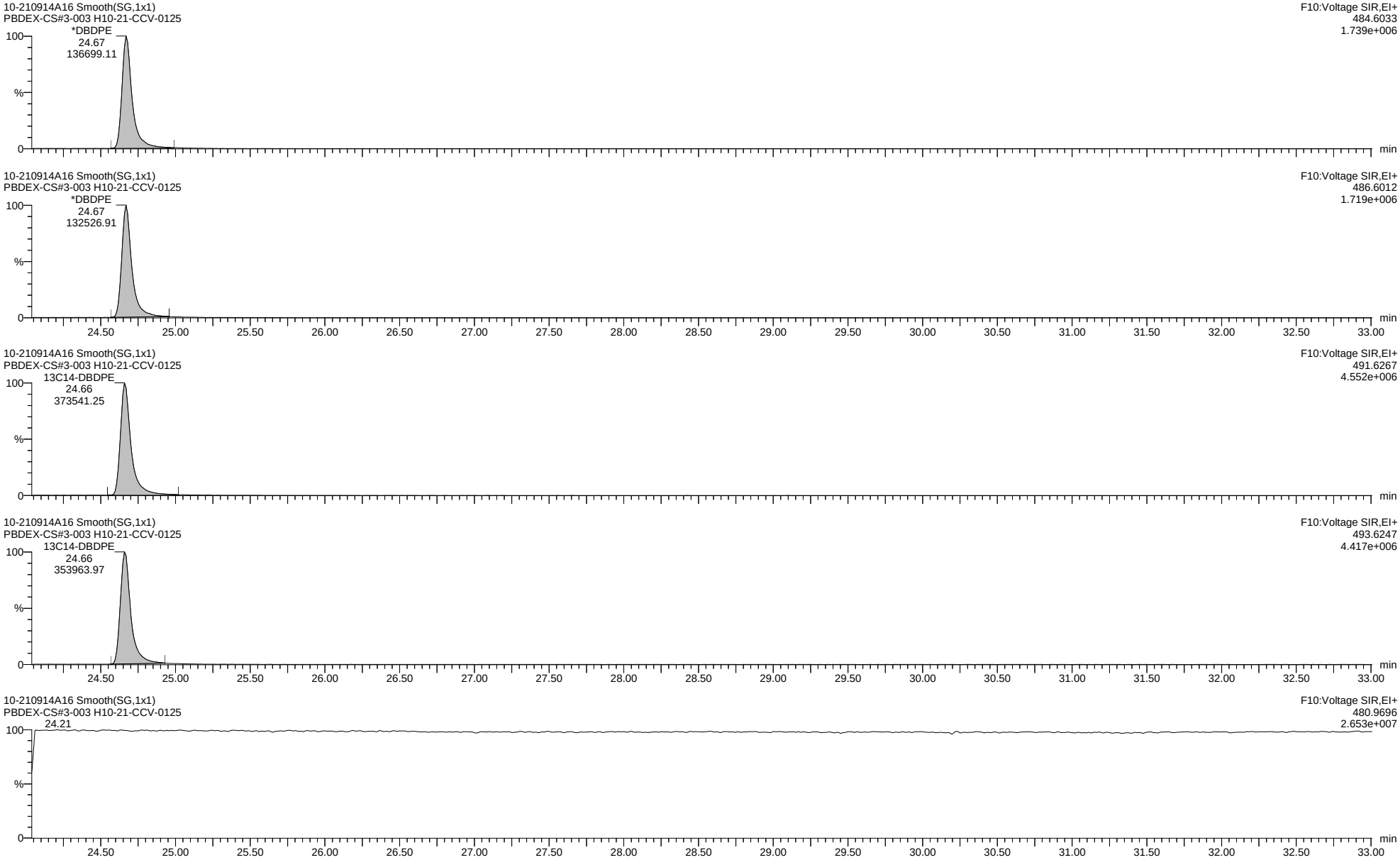

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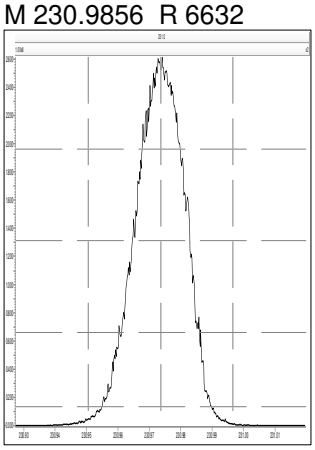

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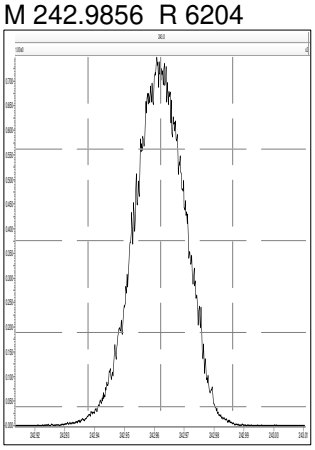

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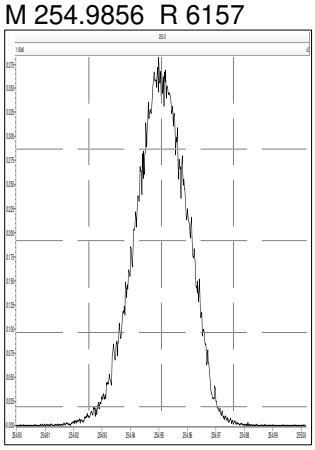

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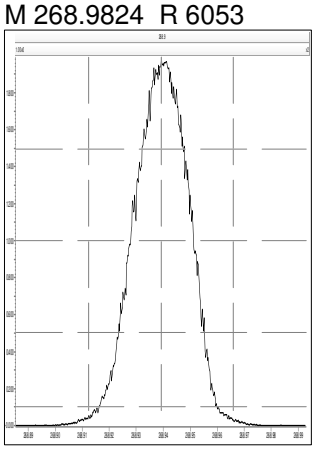

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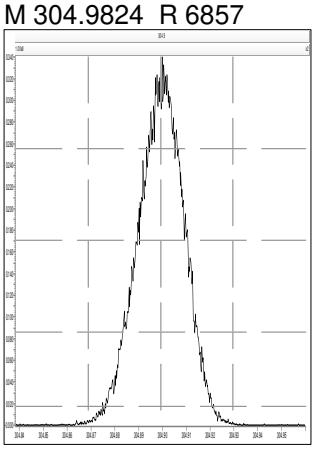

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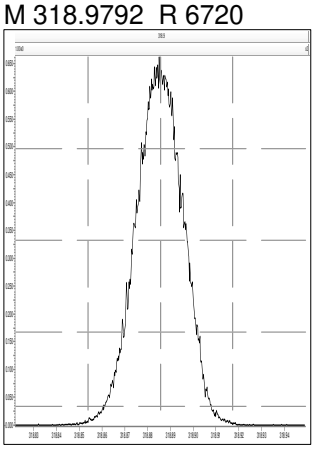

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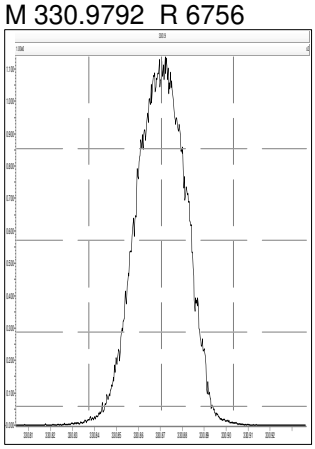

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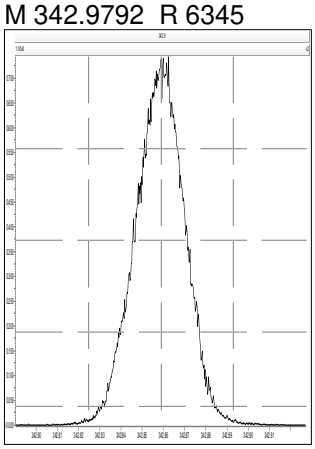

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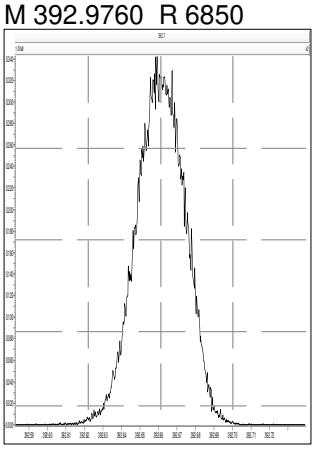

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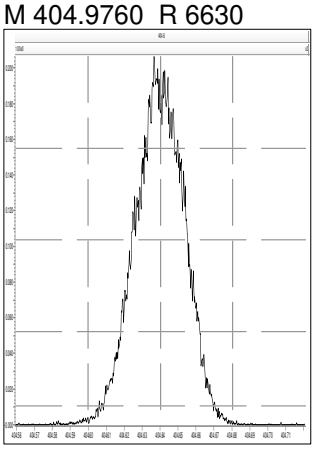

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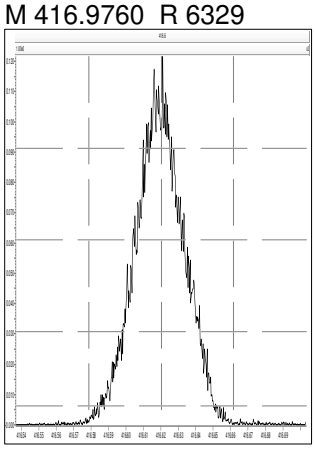

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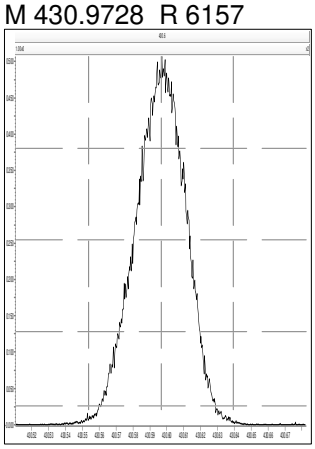

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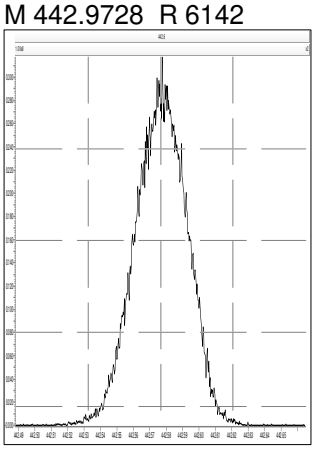

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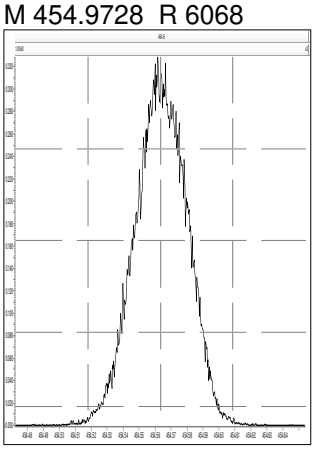
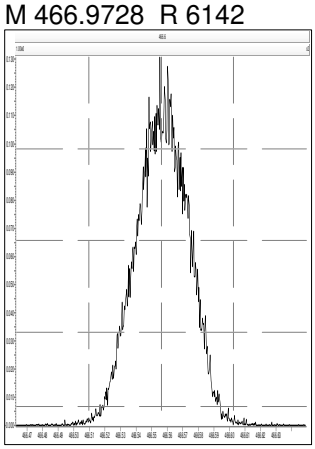


M 466.9728 R 6142



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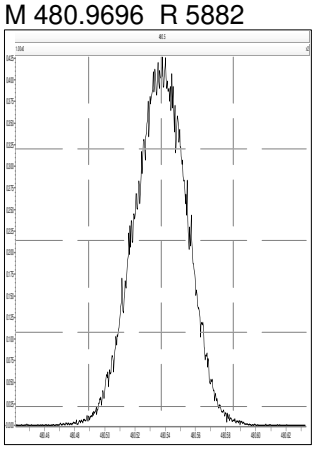

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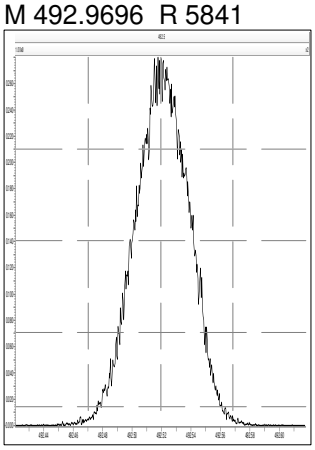

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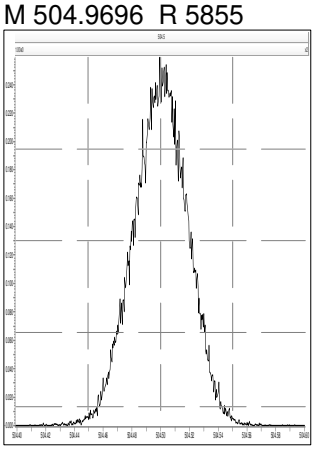

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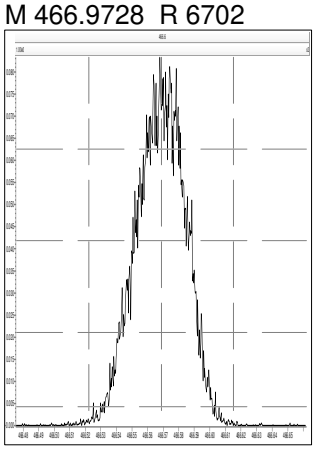

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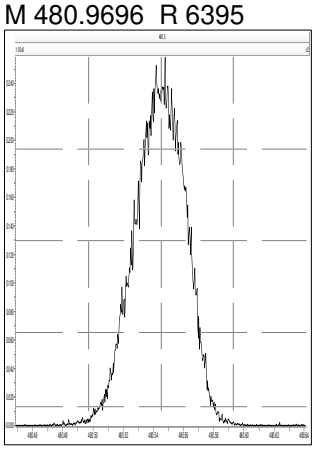

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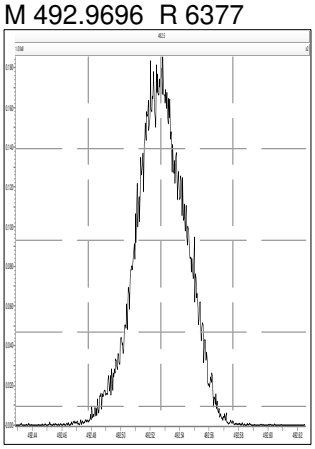

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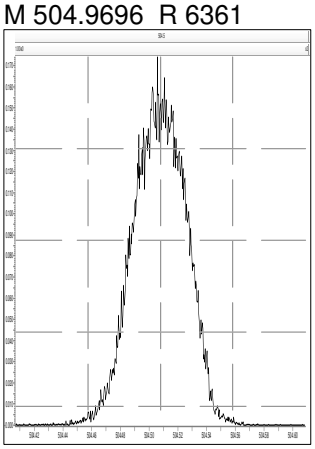
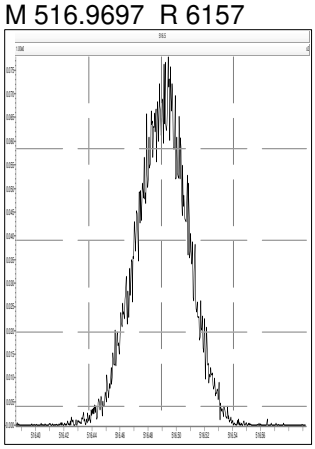
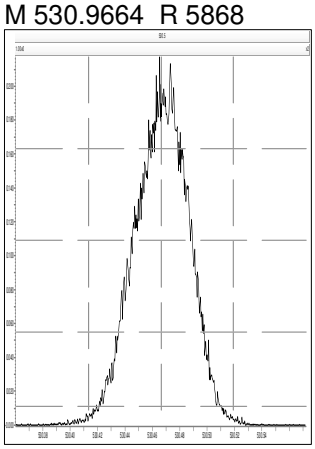


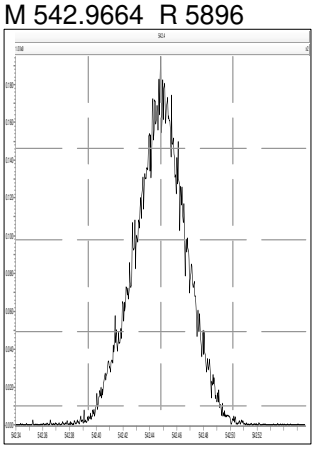
M 516.9697 R 6157



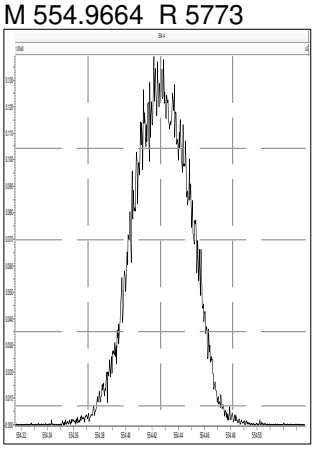
M 530.9664 R 5868



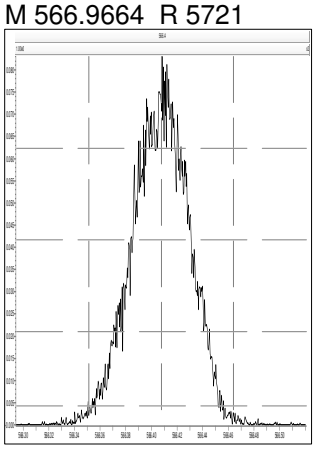
M 542.9664 R 5896



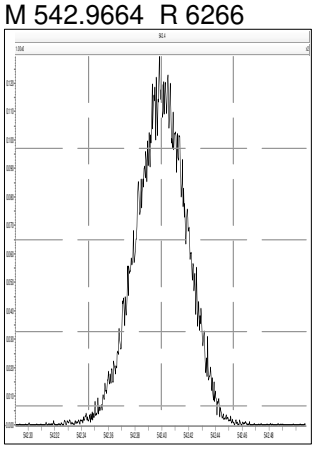
M 554.9664 R 5773



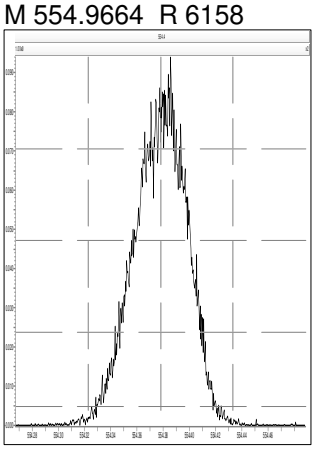
M 566.9664 R 5721



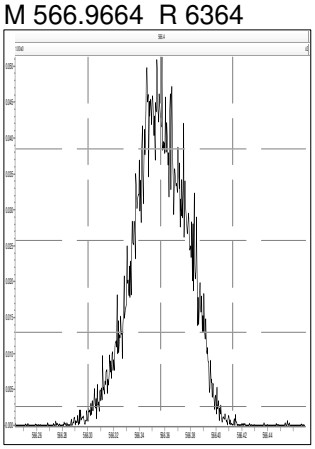
M 542.9664 R 6266



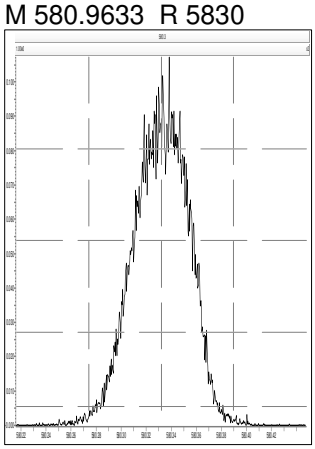
M 554.9664 R 6158



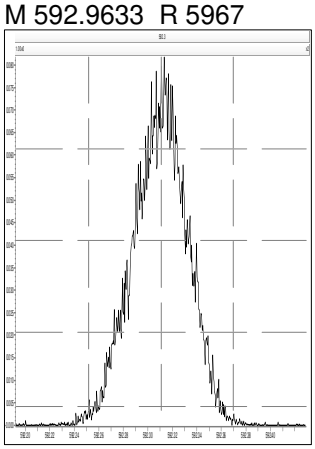
M 566.9664 R 6364



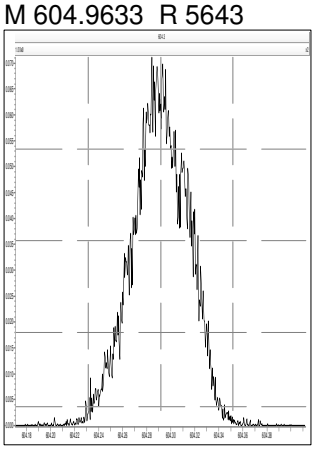
M 580.9633 R 5830



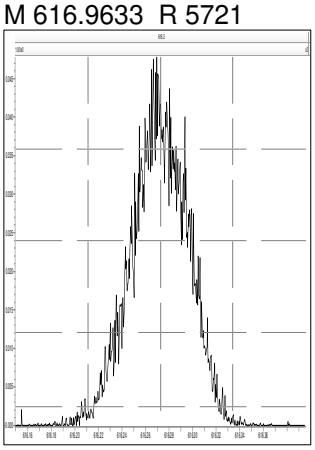
M 592.9633 R 5967



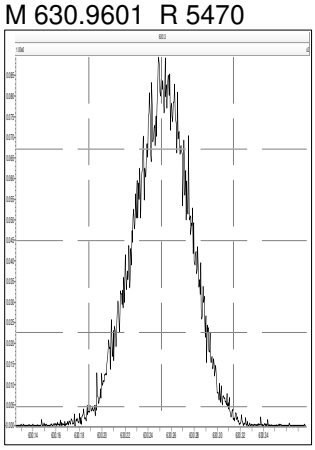
M 604.9633 R 5643



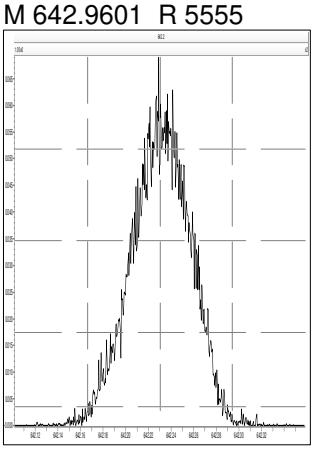
M 616.9633 R 5721



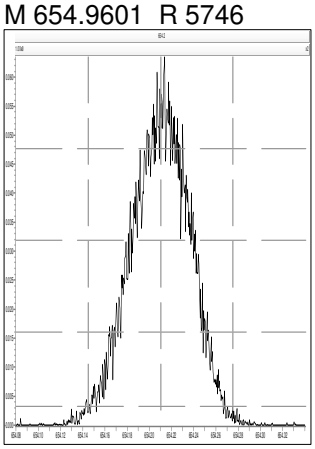
M 630.9601 R 5470



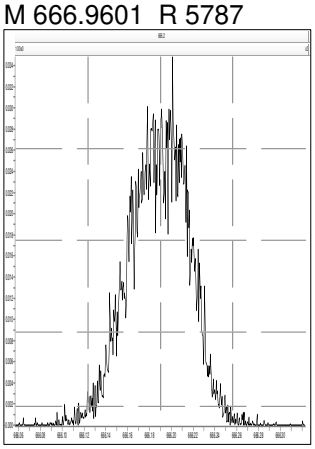
M 642.9601 R 5555



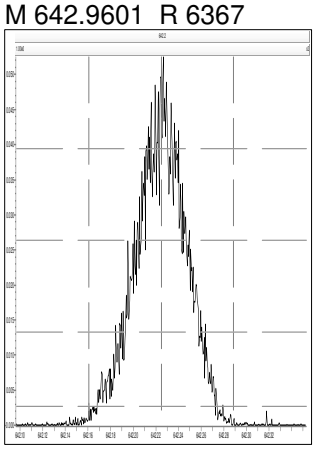
M 654.9601 R 5746



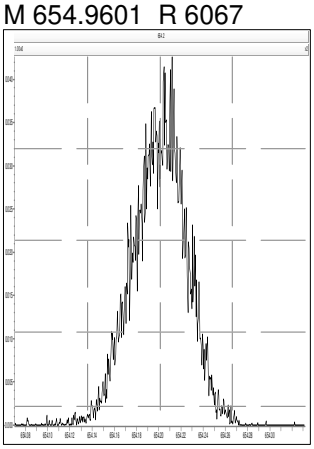
M 666.9601 R 5787



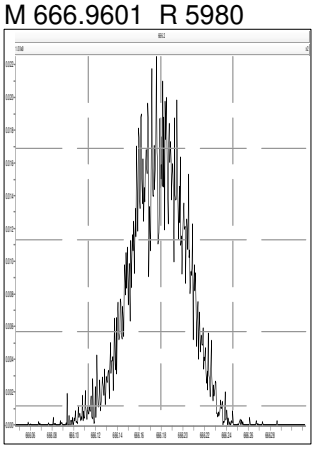
M 642.9601 R 6367



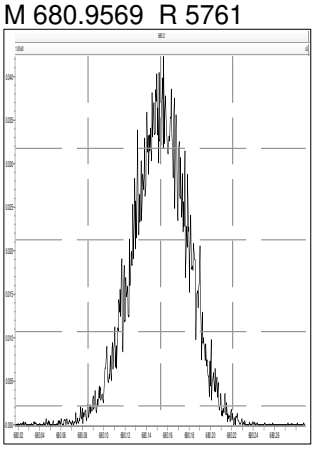
M 654.9601 R 6067



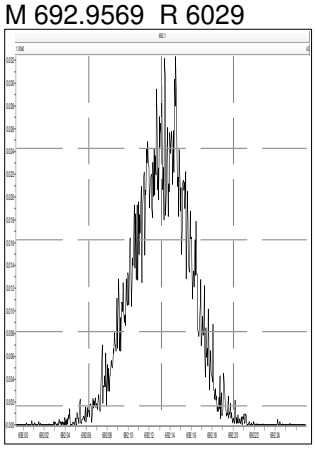
M 666.9601 R 5980



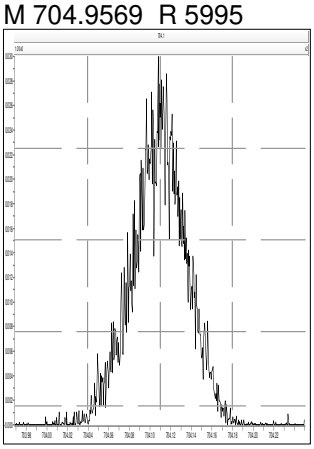
M 680.9569 R 5761



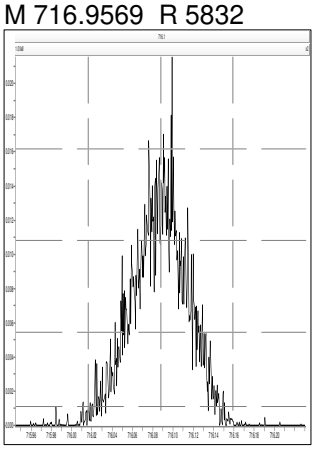
M 692.9569 R 6029



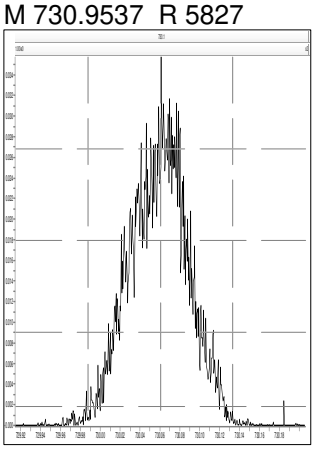
M 704.9569 R 5995



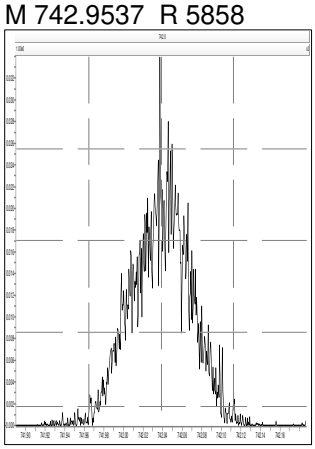
M 716.9569 R 5832



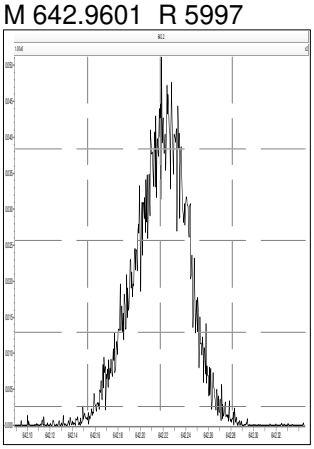
M 730.9537 R 5827



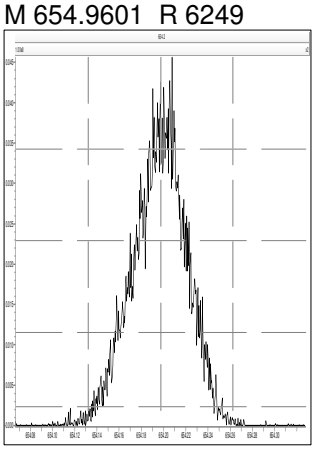
M 742.9537 R 5858



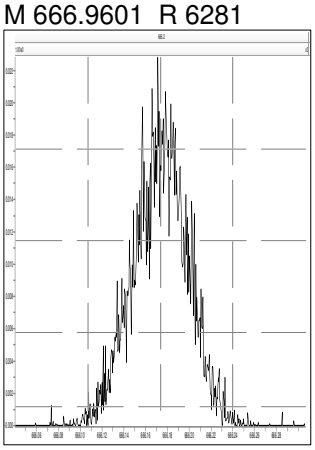
M 642.9601 R 5997



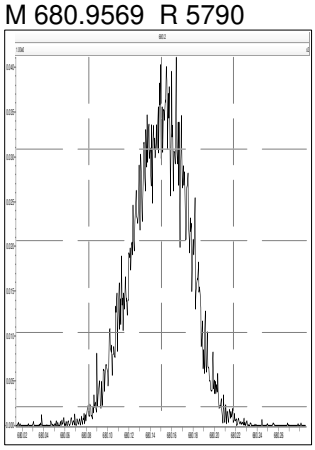
M 654.9601 R 6249



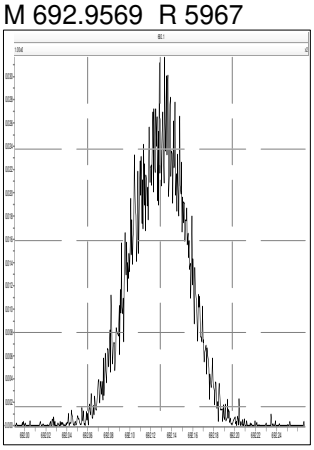
M 666.9601 R 6281



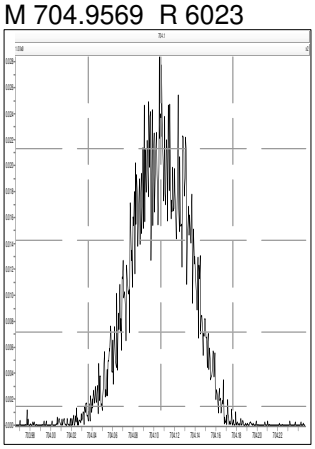
M 680.9569 R 5790



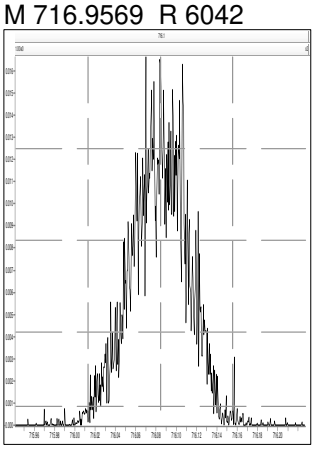
M 692.9569 R 5967



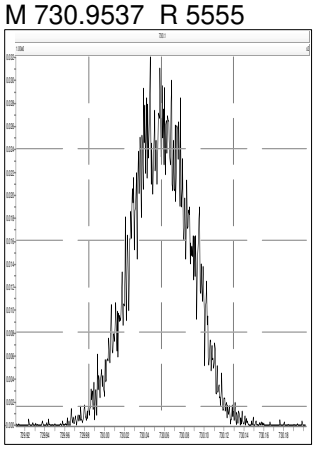
M 704.9569 R 6023



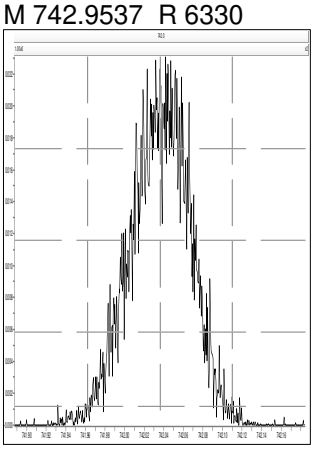
M 716.9569 R 6042



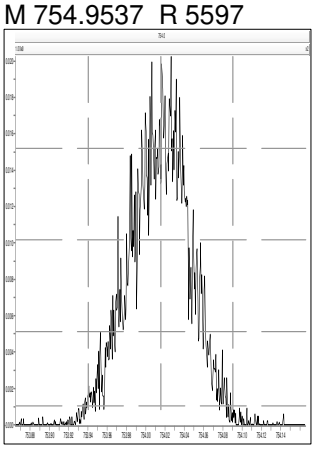
M 730.9537 R 5555



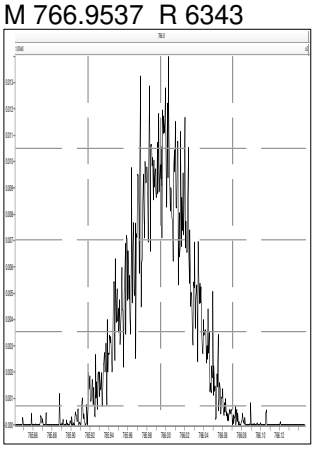
M 742.9537 R 6330



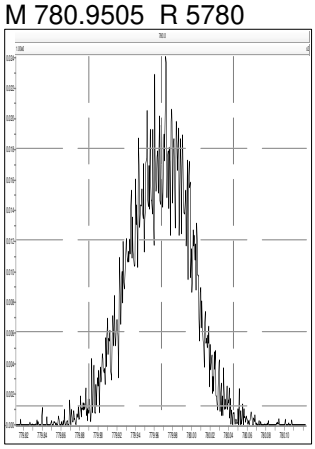
M 754.9537 R 5597



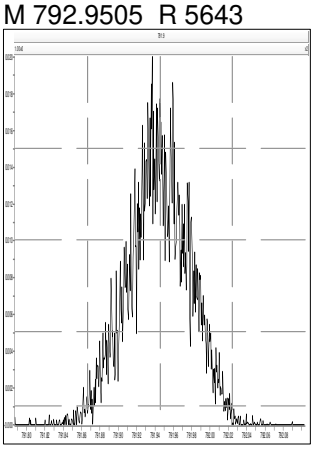
M 766.9537 R 6343



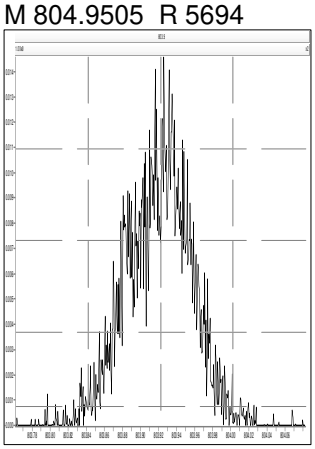
M 780.9505 R 5780



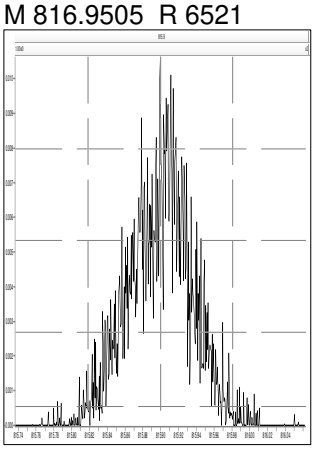
M 792.9505 R 5643



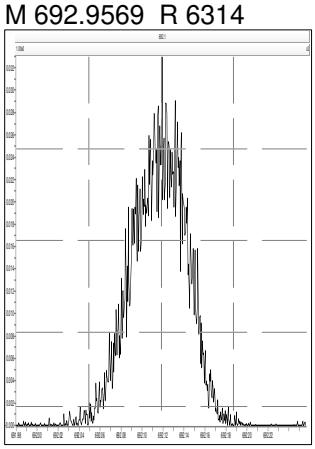
M 804.9505 R 5694



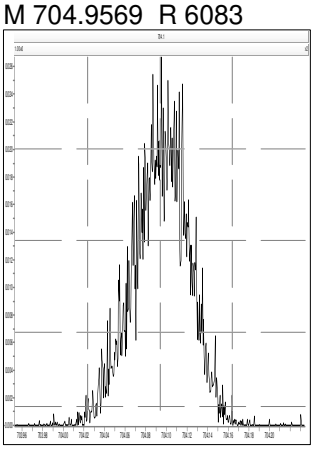
M 816.9505 R 6521



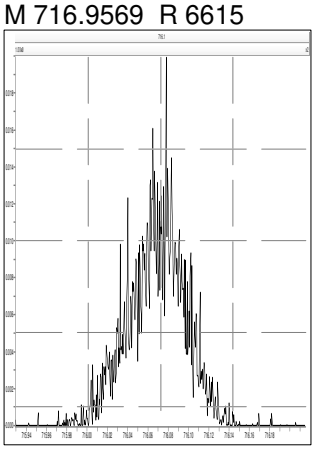
M 692.9569 R 6314



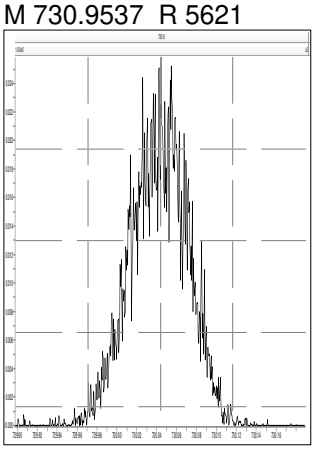
M 704.9569 R 6083



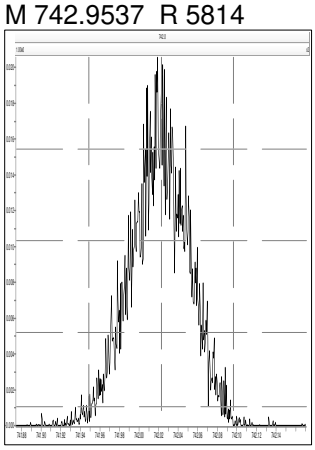
M 716.9569 R 6615



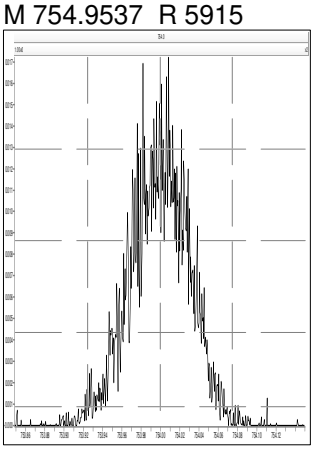
M 730.9537 R 5621



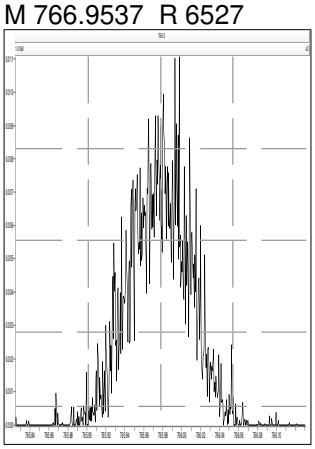
M 742.9537 R 5814



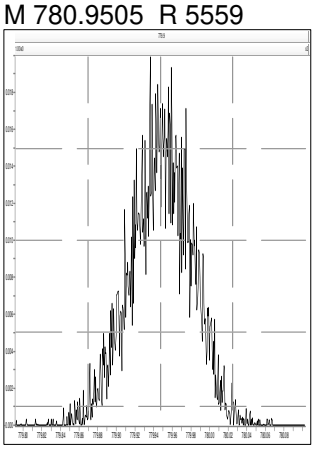
M 754.9537 R 5915



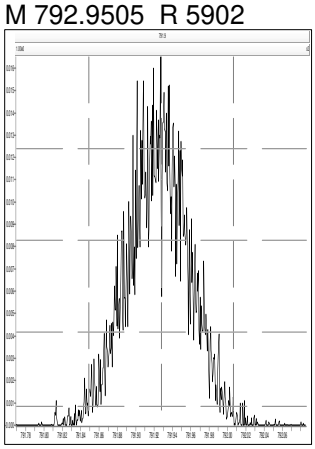
M 766.9537 R 6527



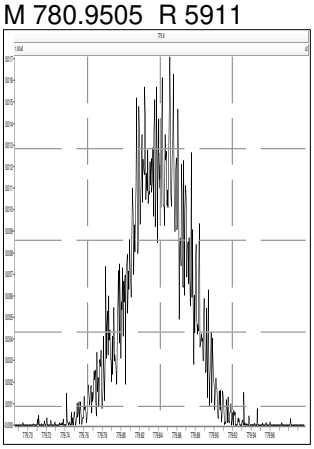
M 780.9505 R 5559



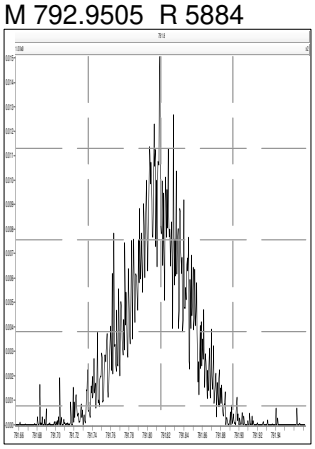
M 792.9505 R 5902



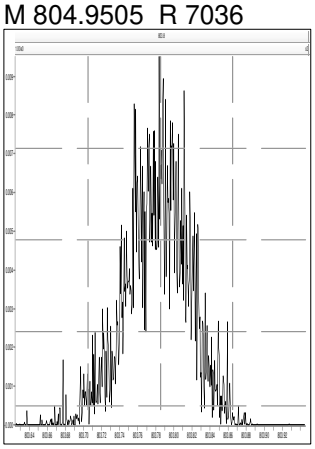
M 780.9505 R 5911



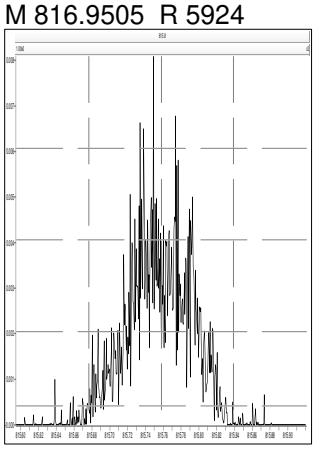
M 792.9505 R 5884



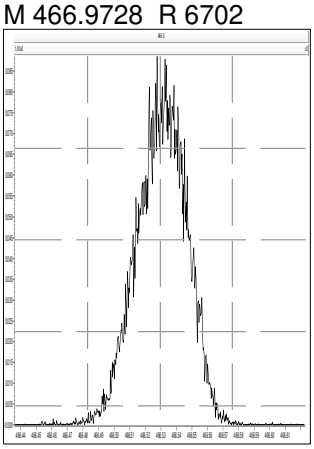
M 804.9505 R 7036



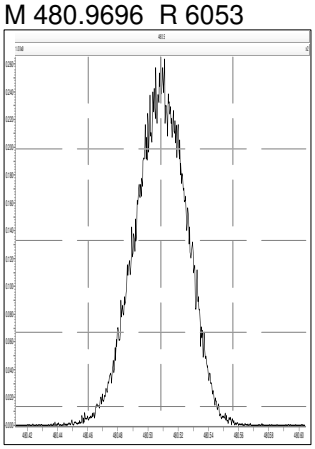
M 816.9505 R 5924



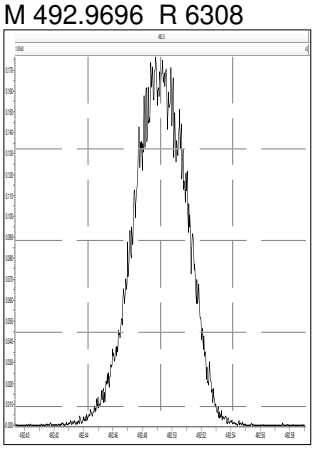
M 466.9728 R 6702



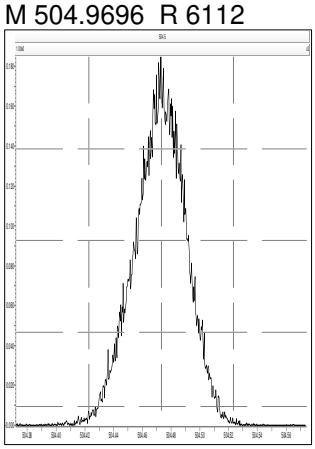
M 480.9696 R 6053



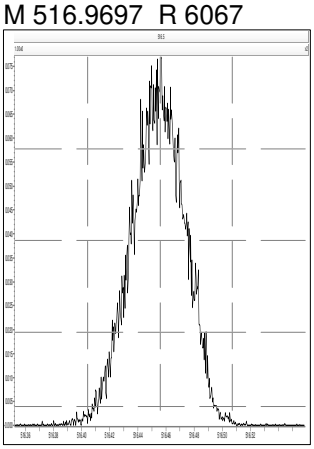
M 492.9696 R 6308



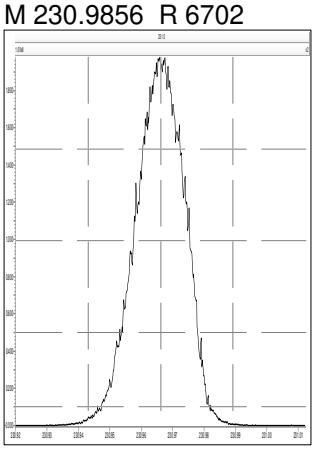
M 504.9696 R 6112



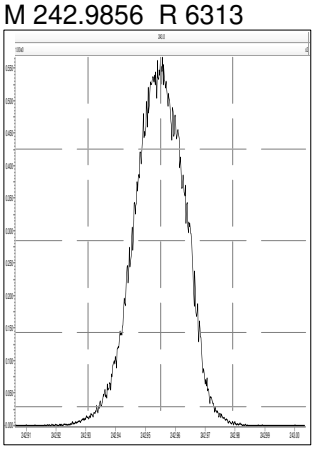
M 516.9697 R 6067



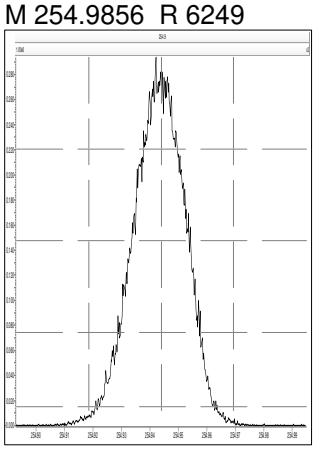
M 230.9856 R 6702



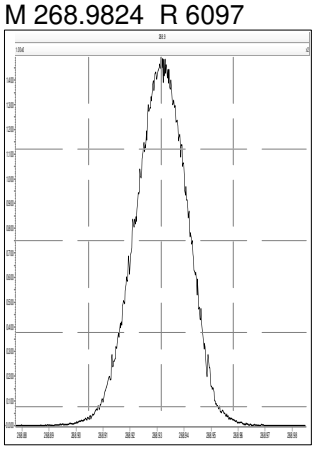
M 242.9856 R 6313



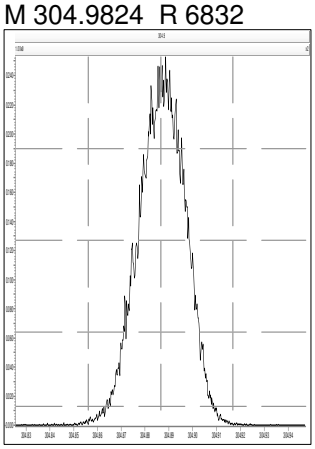
M 254.9856 R 6249



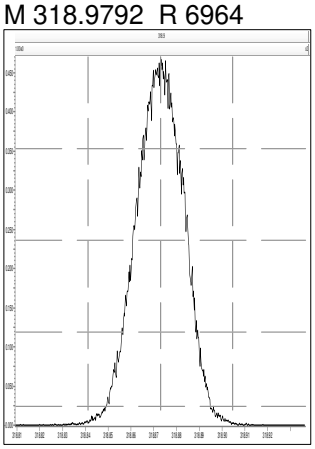
M 268.9824 R 6097



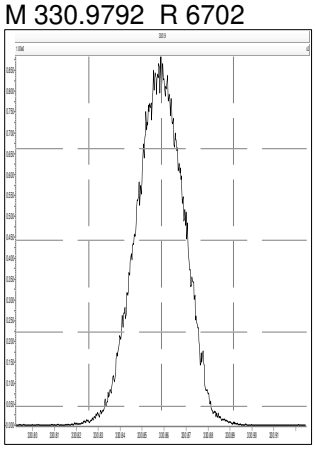
M 304.9824 R 6832



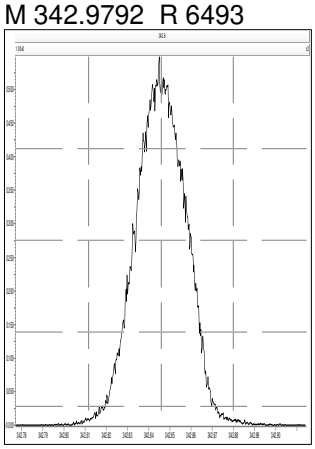
M 318.9792 R 6964



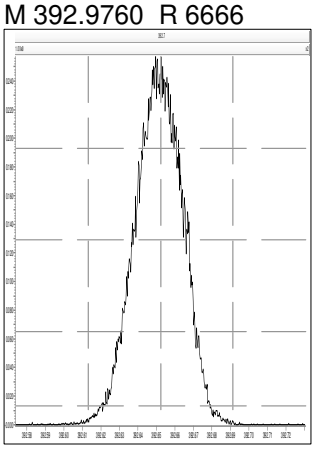
M 330.9792 R 6702



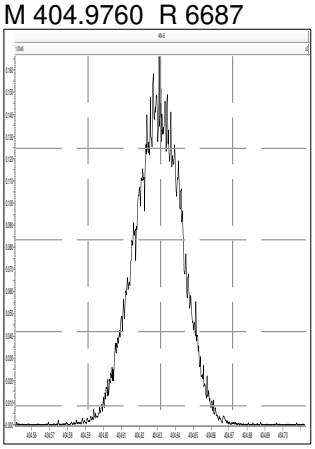
M 342.9792 R 6493



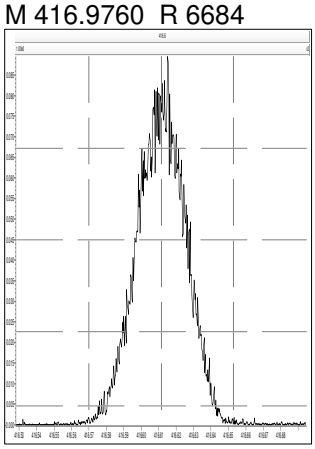
M 392.9760 R 6666



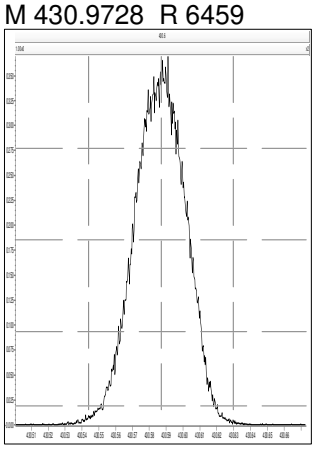
M 404.9760 R 6687



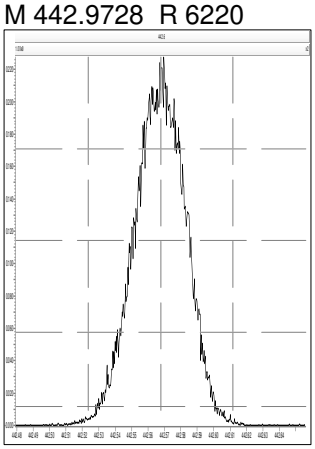
M 416.9760 R 6684



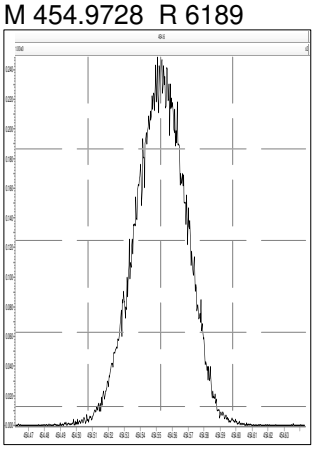
M 430.9728 R 6459



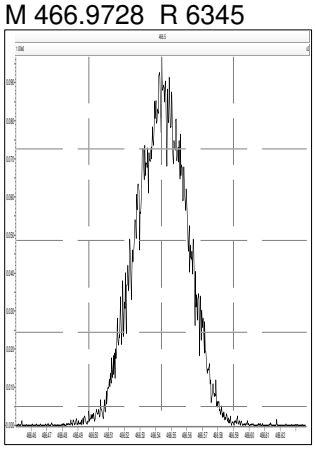
M 442.9728 R 6220



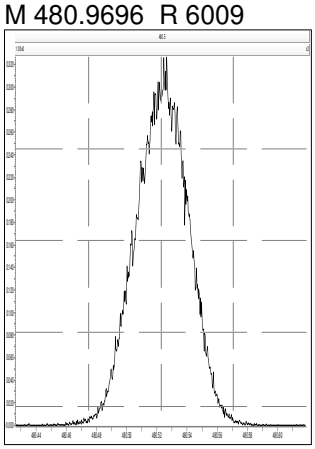
M 454.9728 R 6189



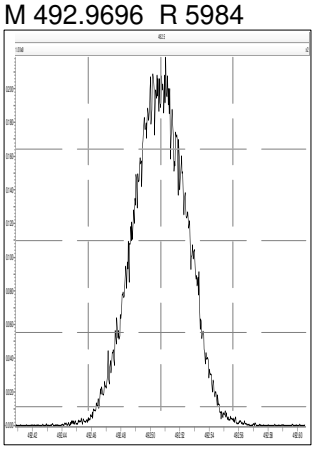
M 466.9728 R 6345



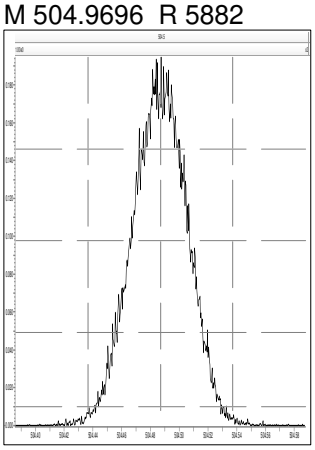
M 480.9696 R 6009



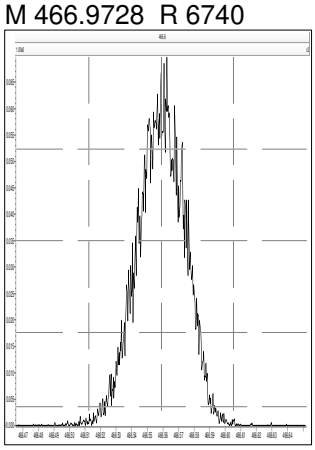
M 492.9696 R 5984



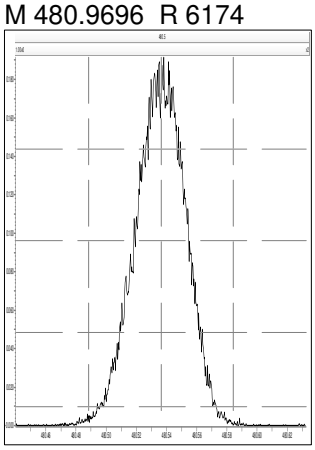
M 504.9696 R 5882



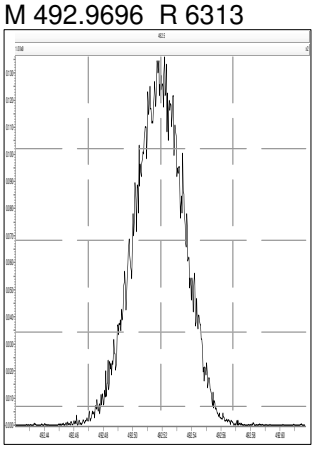
M 466.9728 R 6740



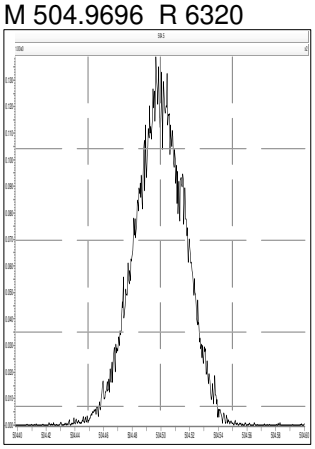
M 480.9696 R 6174



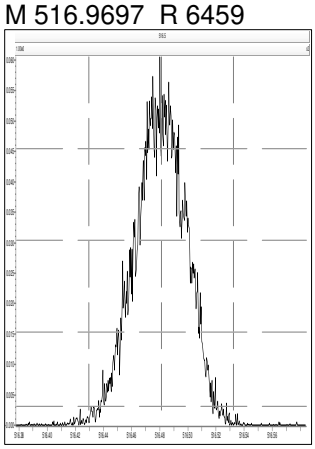
M 492.9696 R 6313



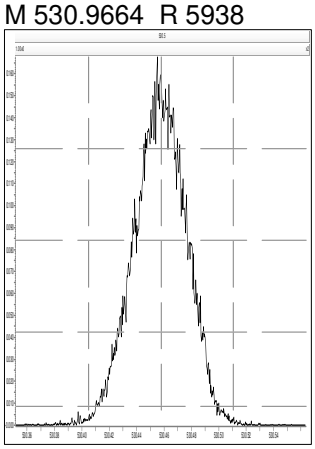
M 504.9696 R 6320



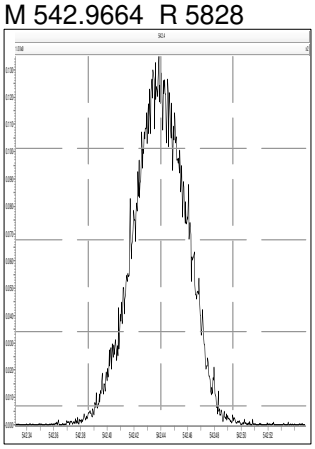
M 516.9697 R 6459



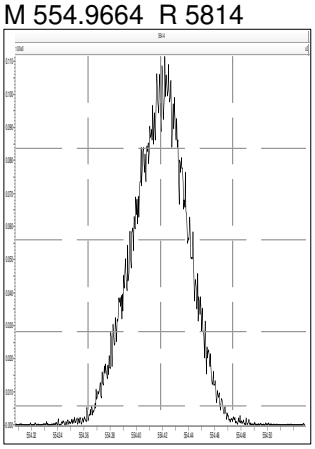
M 530.9664 R 5938



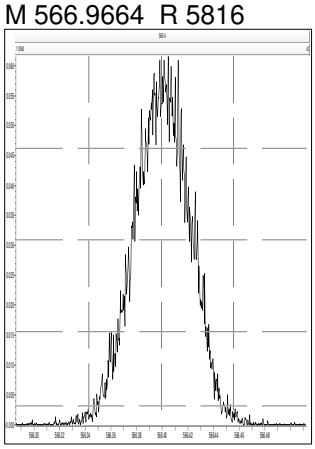
M 542.9664 R 5828



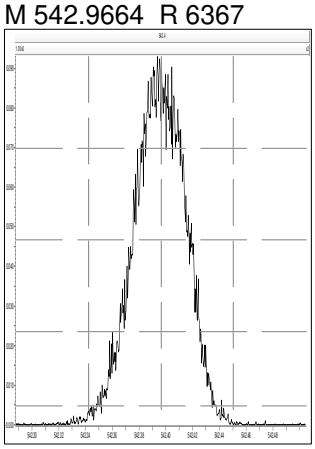
M 554.9664 R 5814



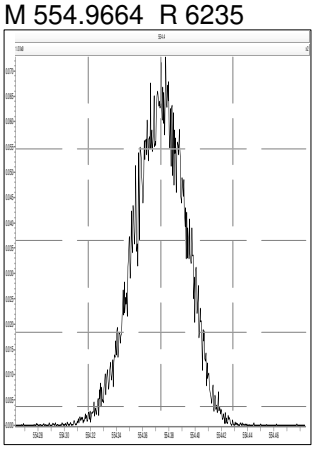
M 566.9664 R 5816



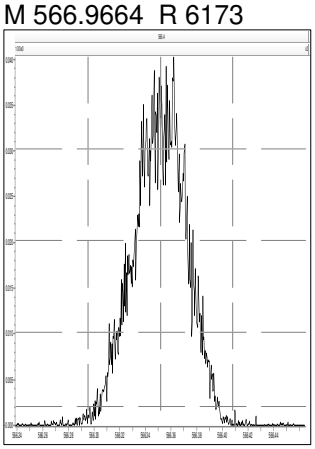
M 542.9664 R 6367



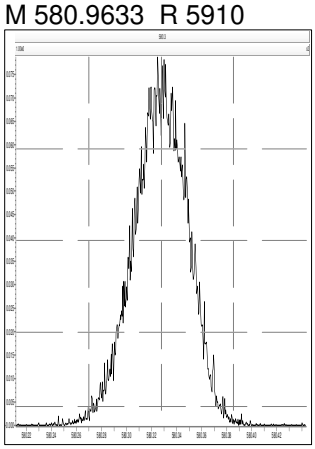
M 554.9664 R 6235



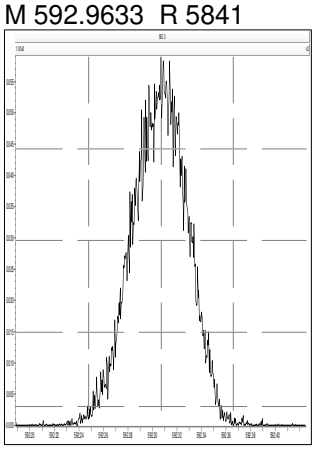
M 566.9664 R 6173



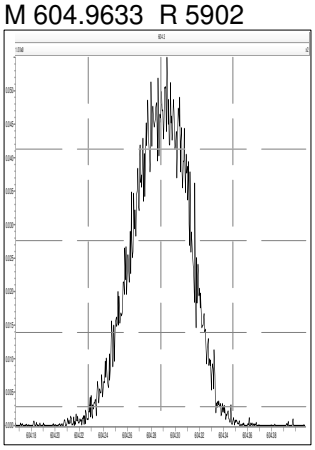
M 580.9633 R 5910



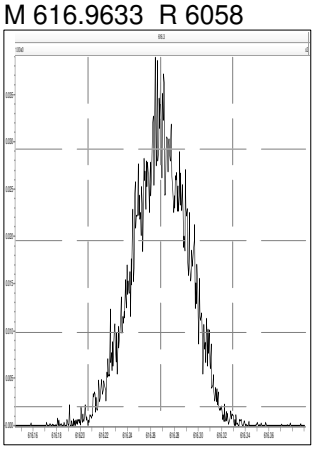
M 592.9633 R 5841



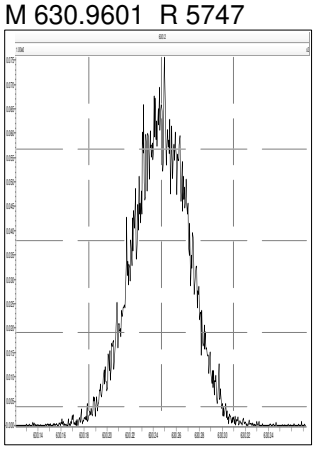
M 604.9633 R 5902



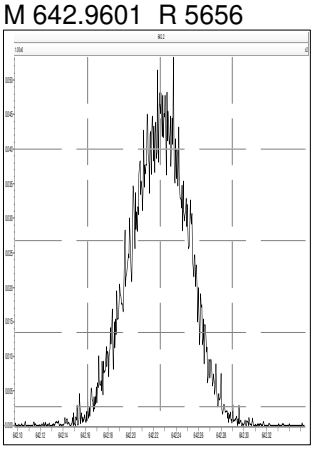
M 616.9633 R 6058



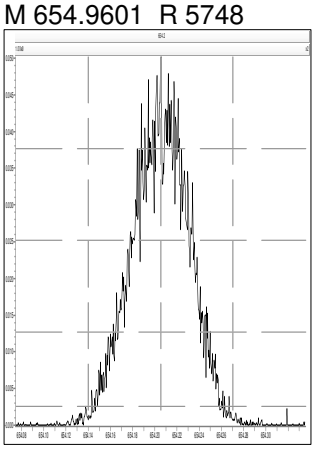
M 630.9601 R 5747



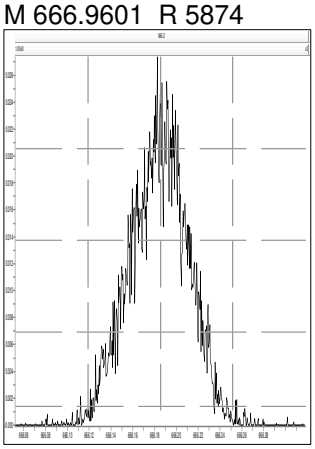
M 642.9601 R 5656



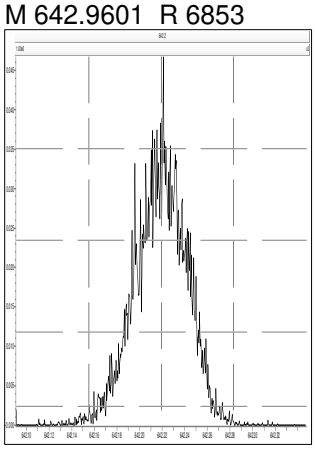
M 654.9601 R 5748



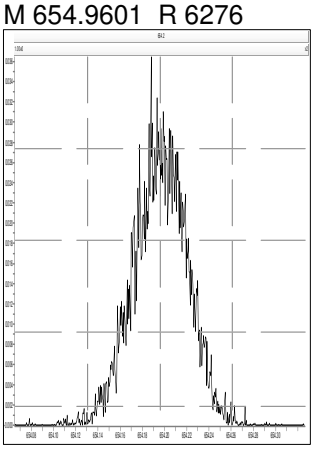
M 666.9601 R 5874



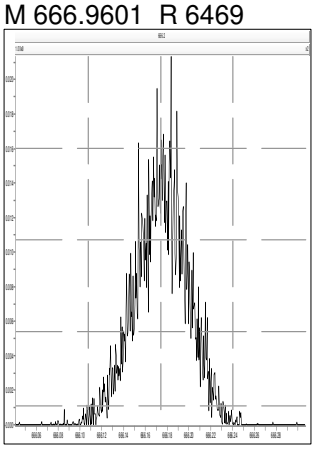
M 642.9601 R 6853



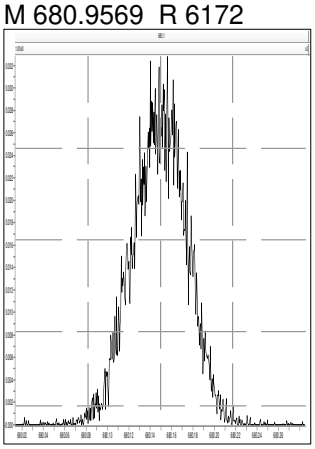
M 654.9601 R 6276



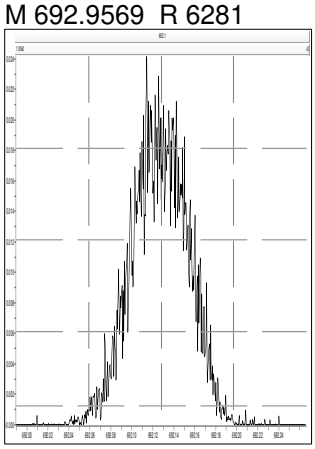
M 666.9601 R 6469



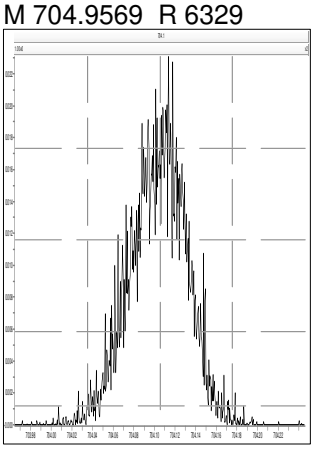
M 680.9569 R 6172



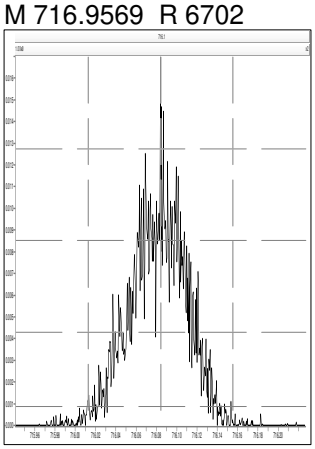
M 692.9569 R 6281



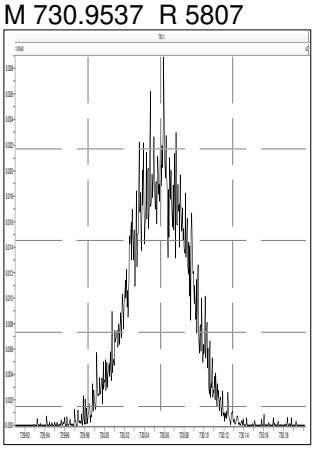
M 704.9569 R 6329



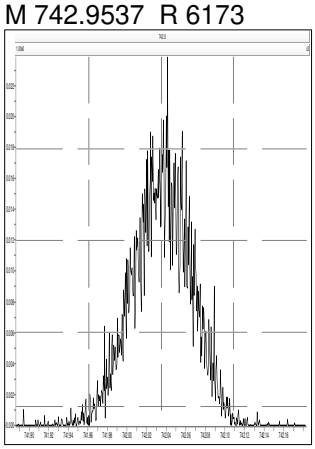
M 716.9569 R 6702



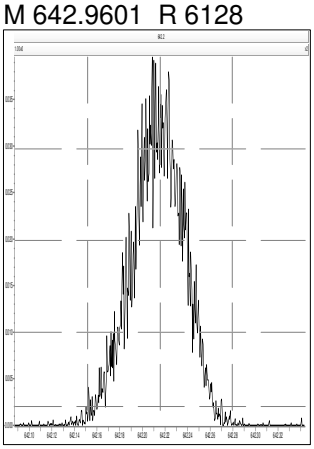
M 730.9537 R 5807



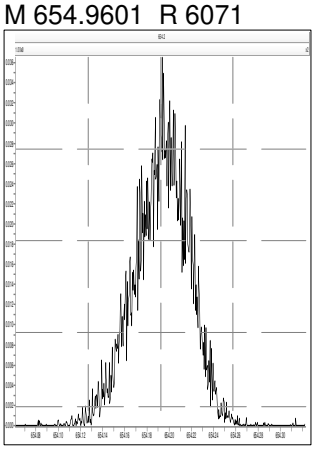
M 742.9537 R 6173



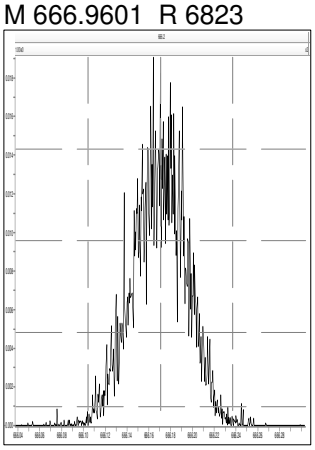
M 642.9601 R 6128



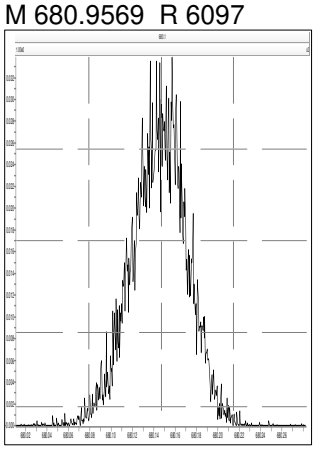
M 654.9601 R 6071



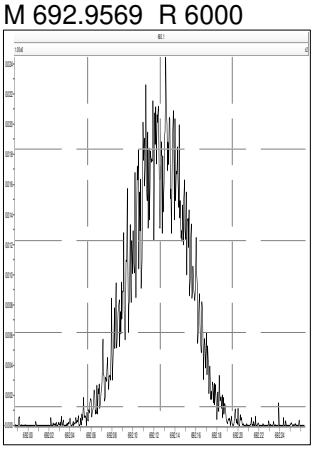
M 666.9601 R 6823



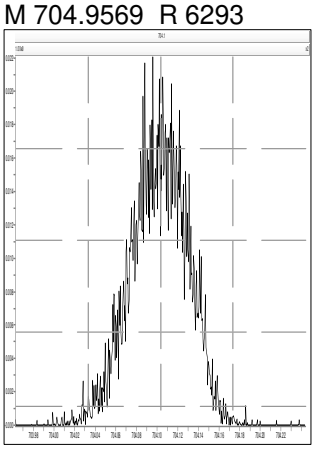
M 680.9569 R 6097



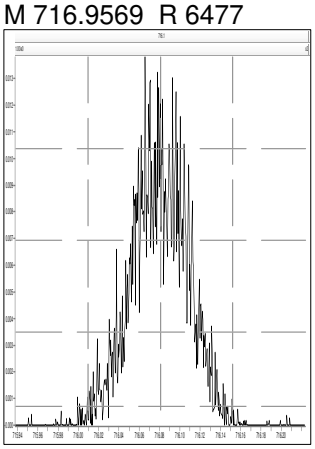
M 692.9569 R 6000



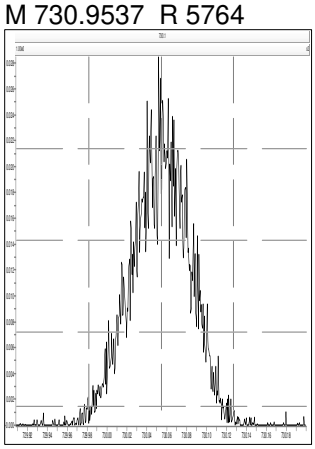
M 704.9569 R 6293



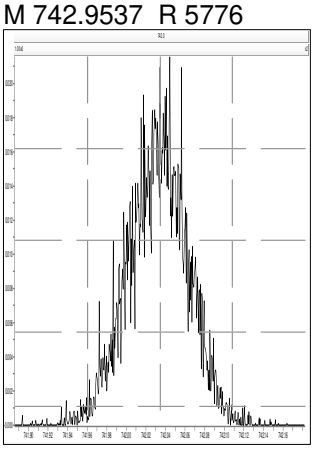
M 716.9569 R 6477



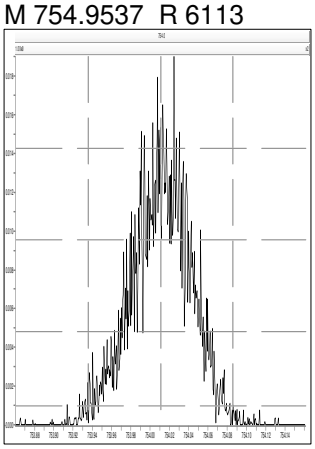
M 730.9537 R 5764



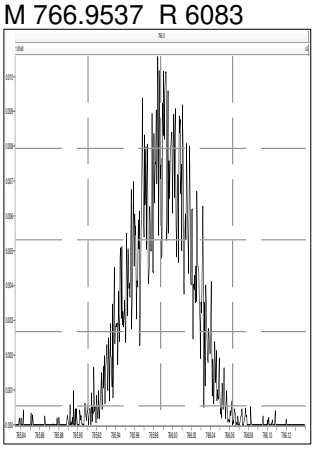
M 742.9537 R 5776



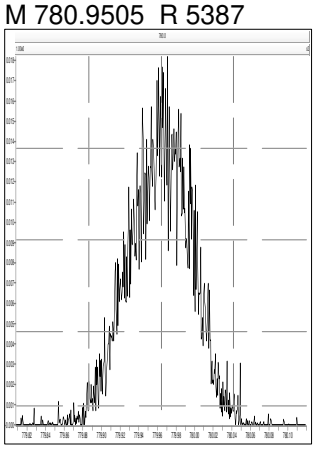
M 754.9537 R 6113



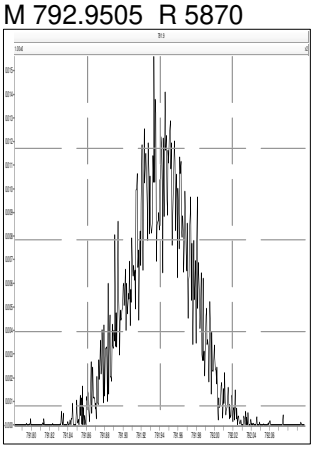
M 766.9537 R 6083



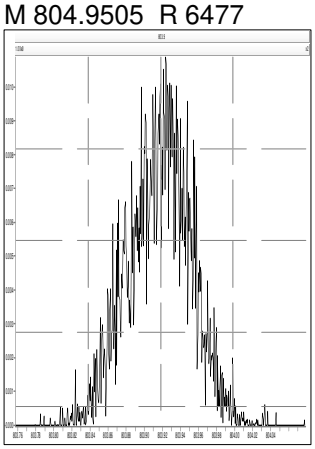
M 780.9505 R 5387



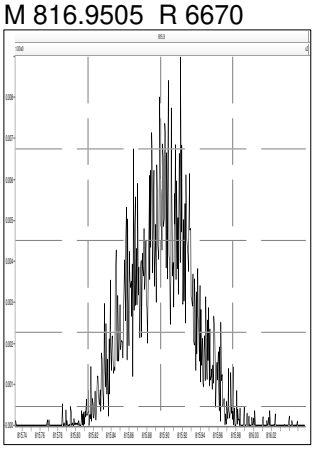
M 792.9505 R 5870



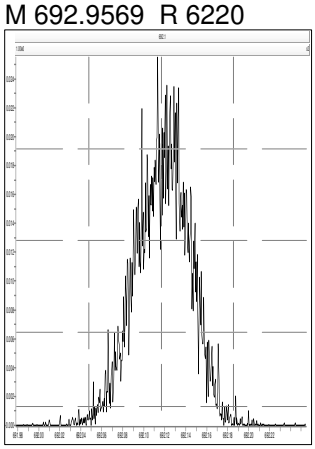
M 804.9505 R 6477



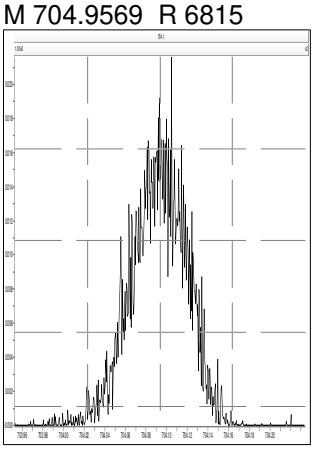
M 816.9505 R 6670



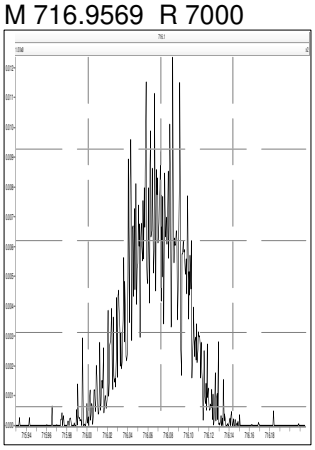
M 692.9569 R 6220



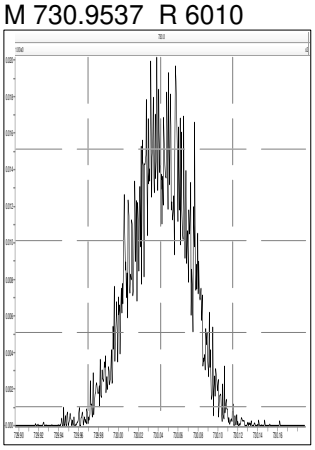
M 704.9569 R 6815



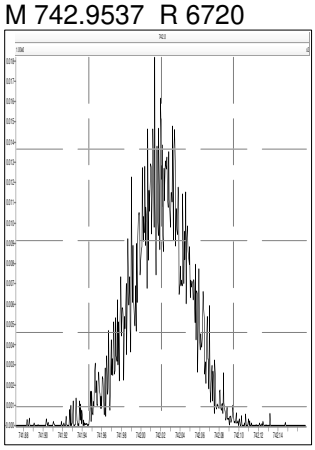
M 716.9569 R 7000



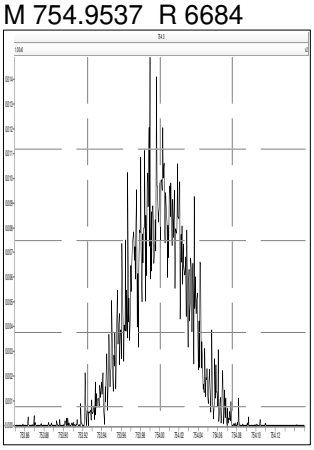
M 730.9537 R 6010



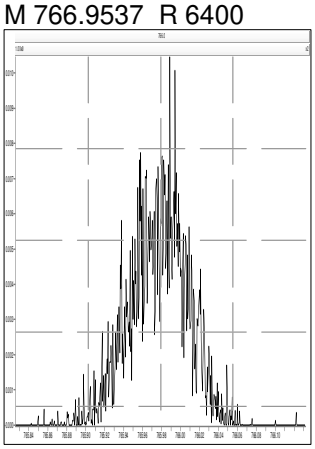
M 742.9537 R 6720



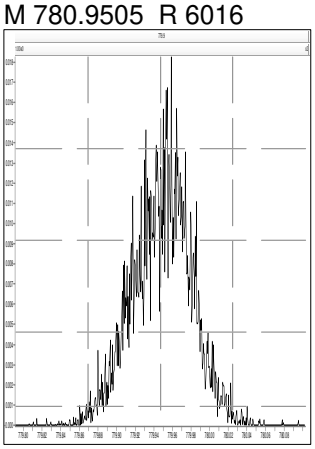
M 754.9537 R 6684



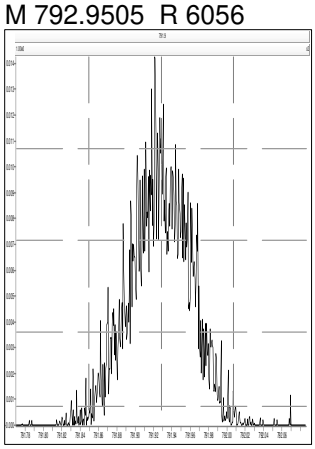
M 766.9537 R 6400



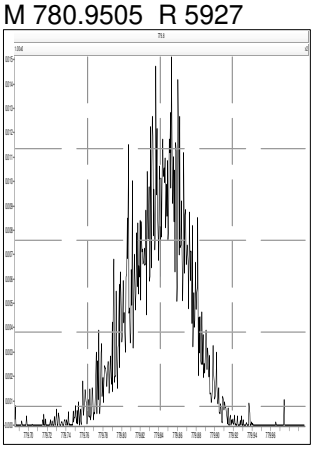
M 780.9505 R 6016



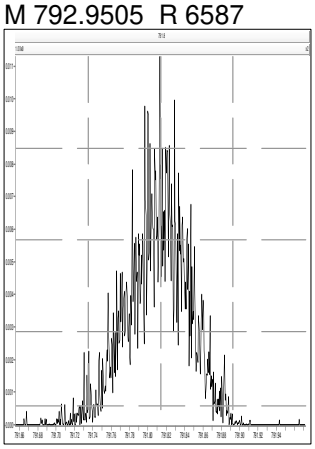
M 792.9505 R 6056



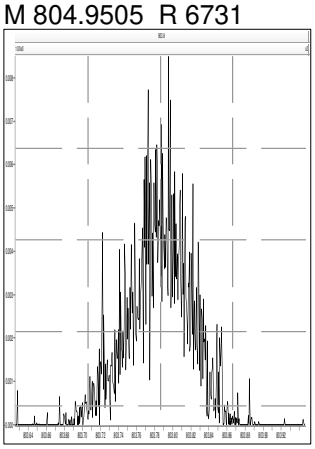
M 780.9505 R 5927



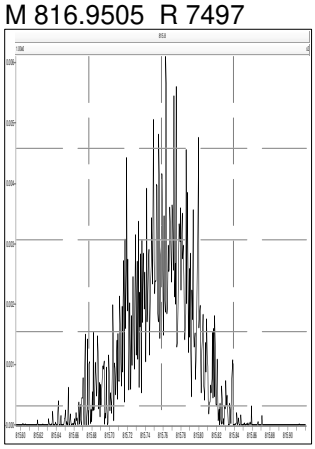
M 792.9505 R 6587



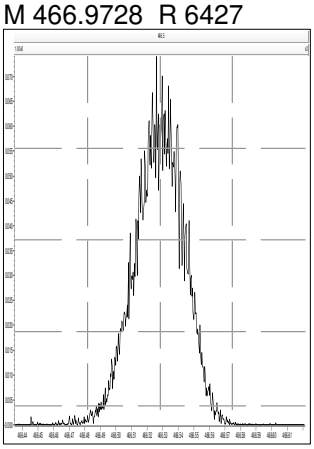
M 804.9505 R 6731



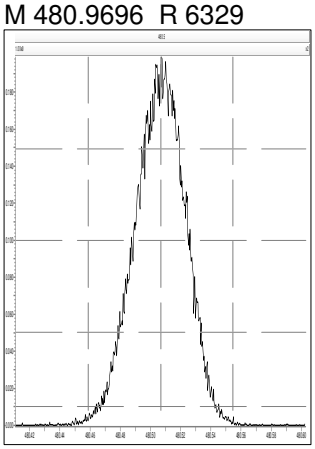
M 816.9505 R 7497



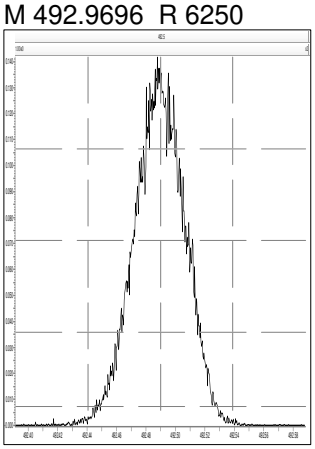
M 466.9728 R 6427



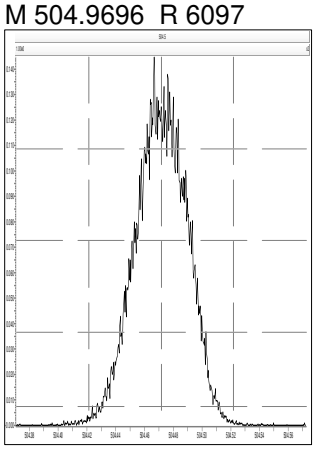
M 480.9696 R 6329



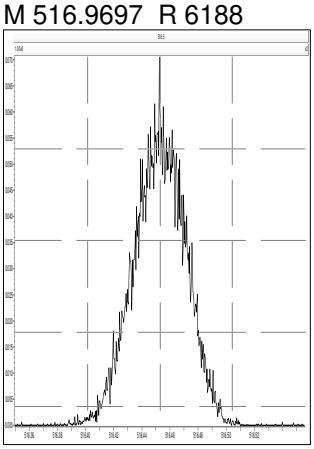
M 492.9696 R 6250



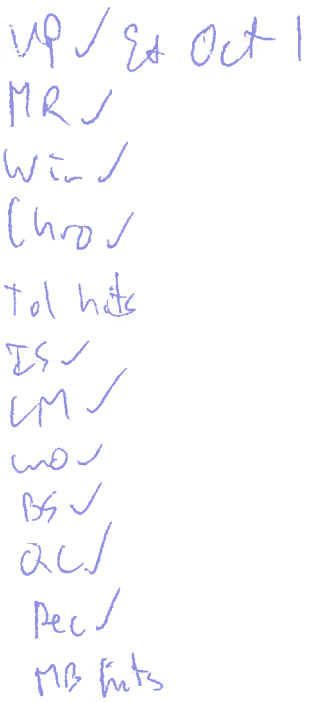
M 504.9696 R 6097



M 516.9697 R 6188



	File Name	Sample ID	File Text	MS File	Inlet File	Vial	Inject Volume
1	9-210930B01	H9-21-CCV-781	PBDEX-CS#3-002	PBDEX_1614	PBDE_DB5	Tray1:40	1.500000
2	9-210930B02	H9-21-CCV-781	PBDEX-CS#3-002	PBDEX_1614	PBDE_DB5	Tray1:40	1.500000
3	9-210930B03	H9-21-CS#2-009	PBDEX-CS#2-002	PBDEX_1614	PBDE_DB5	Tray1:42	1.500000
4	9-210930B04	H9-21-CS#1-009	PBDEX-CS#1-002	PBDEX_1614	PBDE_DB5	Tray1:43	1.500000
5	9-210930B05	H9-21-CS#5-009	PBDEX-CS#5-002	PBDEX_1614	PBDE_DB5	Tray1:44	1.500000
6	9-210930B06	H9-21-CS#4-009	PBDEX-CS#4-002	PBDEX_1614	PBDE_DB5	Tray1:45	1.500000
7	9-210930B07	H9-21-RS#2-009	PBDEX-RS#2-002	PBDEX_1614	PBDE_DB5	Tray1:46	1.500000
8	9-210930B08	H9-21-RS#3-009	PBDEX-RS#3-002	PBDEX_1614	PBDE_DB5	Tray1:47	1.500000
9	9-210930B09	~~H9-21-CCV-778~~ NON	~~PBDEX-CS#3-002~~	PBDEX_1614	PBDE_DB5	Tray1:1	1.500000
10	9-210930B10	WG3584882-2	DIL	PBDEX_1614	PBDE_DB5	Tray1:55	1.500000
11	9-210930B11	TOLUENE	INST BLK	PBDEX_1614	PBDE_DB5	Tray1:41	1.500000
12	9-210930B12	WG3584882-1	DIL	PBDEX_1614	PBDE_DB5	Tray1:56	1.500000
13	9-210930B13	L2616632-2	DIL	PBDEX_1614	PBDE_DB5	Tray1:57	1.500000
14	9-210930B14	L2616632-3	DIL	PBDEX_1614	PBDE_DB5	Tray1:58	1.500000
15	9-210930B15	L2616632-4	DIL	PBDEX_1614	PBDE_DB5	Tray1:59	1.500000
16	9-210930B16	L2616632-5	DIL	PBDEX_1614	PBDE_DB5	Tray1:60	1.500000
17	9-210930B17	L2616632-6	DIL	PBDEX_1614	PBDE_DB5	Tray1:61	1.500000
18	9-210930B18	L2616632-8	DIL	PBDEX_1614	PBDE_DB5	Tray1:62	1.500000
19	9-210930B19	L2616632-9	DIL	PBDEX_1614	PBDE_DB5	Tray1:63	1.500000
20	9-210930B20	L2616632-10	DIL	PBDEX_1614	PBDE_DB5	Tray1:64	1.500000
21	9-210930B21	~~H9-21-CCV-779~~ NON	~~PBDEX-CS#3-002~~	PBDEX_1614	PBDE_DB5	Tray1:1	1.500000
22	9-210930B22	WG3591012-2	LCS	PBDEX_1614	PBDE_DB5	Tray1:66	1.500000
23	9-210930B23	H9-21-CCV-779	PBDEX-CS#3-002	PBDEX_1614	PBDE_DB5	Tray1:40	1.500000
24	---	---	---	---	---	---	0.000000
25	---	Column DB5	Serial No US0702425H	---	---	---	0.000000
26	---	15X0.25X0.1		---	---	---	0.000000
27	---	Detector	380	---	---	---	0.000000
28	---	OP	ES	---	---	---	0.000000



Sample List Report **MassLynx MassLynx V4.1 SCN 901**

Sample List: C:\MassLynx\PBDE.PRO\SampleDB\9-210930B-PBDE-ICAL RS.SPL
Last Modified: Thursday, November 18, 2021 09:52:44 Eastern Standard Time
Printed: Thursday, November 18, 2021 09:53:02 Eastern Standard Time

	File Name	Sample ID	File Text	Sample Type	Na Conc A	Na Conc B	Na Conc C	Na Conc D	Na Conc E	Na Conc F	Na Conc G	Na Conc H	ES Conc 1	ES Conc 2	ES Conc 3	ES Conc 4	CS Conc	IS Conc 1	IS Conc 2	Sample Size
1	9-210930B04	H9-21-CS#1-009	PBDEX-CS#1-002	Standard	1	1.5	2	2.5	3	4	5	10	50	100	250	500	50	50	250	0.000
2	9-210930B03	H9-21-CS#2-009	PBDEX-CS#2-002	Standard	4	6	8	10	12	16	20	40	50	100	250	500	50	50	250	0.000
3	9-210930B02	H9-21-CCV-781	PBDEX-CS#3-002	Standard	20	30	40	50	60	80	100	200	50	100	250	500	50	50	250	0.000
4	9-210930B06	H9-21-CS#4-009	PBDEX-CS#4-002	Standard	80	120	160	200	240	320	400	800	50	100	250	500	50	50	250	0.000
5	9-210930B05	H9-21-CS#5-009	PBDEX-CS#5-002	Standard	240	360	480	600	720	960	1200	2400	50	100	250	500	50	50	250	0.000
6	9-210930B07	H9-21-RS#2-009	PBDEX-RS#2-002	Analyte	---	---	---	---	---	---	---	---	50	100	250	500	50	50	250	0.000
7	9-210930B08	H9-21-RS#3-009	PBDEX-RS#3-002	Analyte	---	---	---	---	---	---	---	---	50	100	250	500	50	50	250	0.000

Quantify Sample Summary Report **MassLynx MassLynx V4.1 SCN 901**

Dataset: I:\Organics Instrument\HIGHRES GCMS Completed Results Files\HR-9\2109\9-210930B-PBDE-ICAL.qld

Last Altered: Friday, October 01, 2021 09:18:22 Eastern Daylight Time
Printed: Thursday, November 18, 2021 10:17:57 Eastern Standard Time

Method: C:\MassLynx\PBDE.PRO\Methods\PBDEX-DB5-1-210930B.mdb 28 Sep 2021 13:06:19
Calibration: C:\MassLynx\PBDE.PRO\CurveDB\9-210930B-PBDEX-ICAL.cdb 01 Oct 2021 10:18:22

Name: 9-210930B04, Date: 30-Sep-2021, Time: 18:07:37, ID: H9-21-CS#1-009, Description: PBDEX-CS#1-002, Vial: Tray1:43

	Target Analyte	#Hom	Total Area	Ion1 Area	Ion2 Area	Ra	Ra Fail=YES	RT	RRT	RT LCL	RT UCL	Conc.	%Rec	Mod.Comment	Noise 1	Noise 2
1	*BDE-1		123939.671	61882	62057	1.00	NO	4.83	0.96	4.80	4.87	1.0520499	105.2		60161	89536
2	BDE-2		191327.602	96948	94380	1.03	NO	4.93	0.98	4.90	4.96	1.0696096	107.0		60161	89536
3	BDE-3		214190.079	109421	104769	1.04	NO	5.04	1.00	5.01	5.08	1.0434598	104.3		60161	89536
4	*BDE-10		75520.389	25857	49664	0.52	NO	6.26	0.89	6.23	6.29	1.0231148	102.3		1813	2391
5	BDE-7		78744.947	26778	51967	0.52	NO	6.63	0.94	6.60	6.67	0.99059065	99.1		1813	2391
6	BDE-8/BDE-11		222471.898	75373	147099	0.51	NO	6.80	0.96	6.76	6.83	1.9833049	99.2		1813	2391
7	BDE-12/BDE-13		255191.375	87022	168169	0.52	NO	6.92	0.98	6.88	6.95	1.9992307	100.0		1813	2391
8	BDE-15		151856.801	51023	100834	0.51	NO	7.06	1.00	7.02	7.09	0.99981156	100.0		1813	2391
9	*BDE-30		62287.230	31430	30857	1.02	NO	7.76	0.90	7.73	7.79	1.0029723	100.3		3107	6339
10	BDE-32		87534.324	43460	44074	0.99	NO	8.20	0.95	8.17	8.24	1.0099183	101.0		3107	6339
11	BDE-17/BDE-25		136683.891	68511	68173	1.00	NO	8.37	0.97	8.34	8.40	1.9770601	98.9		3107	6339
12	BDE-28/BDE-33		141421.719	70655	70767	1.00	NO	8.60	1.00	8.57	8.64	1.9867370	99.3		3107	6339
13	BDE-35		101637.458	50180	51458	0.98	NO	8.76	1.02	8.73	8.79	0.96000387	96.0		3107	6339
14	BDE-37		102143.661	51669	50475	1.02	NO	8.95	1.04	8.92	8.98	0.96585486	96.6		3107	6339
15	*PBEB		59571.543	29931	29640	1.01	NO	8.96	0.90	8.93	8.99	0.93363835	93.4		1643	1541
16	*PBB-52		59641.495	36097	23545	1.53	NO	9.06	0.91	9.03	9.09	1.0014103	100.1		2451	1622
17	*HBB		53772.495	15471	38302	0.40	NO	9.94	1.00	9.91	9.97	1.0013044	100.1		915	1201
18	*BDE-75		69103.274	27890	41214	0.68	NO	10.00	0.95	9.97	10.04	0.99350687	99.4		2077	2322
19	BDE-51		71139.379	28943	42196	0.69	NO	10.08	0.96	10.04	10.11	0.92524681	92.5		2077	2322
20	BDE-49		51232.657	20627	30606	0.67	NO	10.16	0.97	10.13	10.20	0.97053508	97.1		2077	2322
21	BDE-71		48415.088	19560	28855	0.68	NO	10.24	0.98	10.21	10.27	0.92761537	92.8		2077	2322
22	BDE-47		80689.590	32323	48366	0.67	NO	10.50	1.00	10.47	10.53	0.99811671	99.8		2077	2322
23	BDE-79		93293.714	37968	55325	0.69	NO	10.66	1.02	10.63	10.70	0.99035577	99.0		2077	2322
24	BDE-66		49603.486	20377	29226	0.70	NO	10.79	1.03	10.75	10.82	0.97701768	97.7		2077	2322
25	BDE-77		88422.293	35590	52832	0.67	NO	11.26	1.00	11.22	11.29	0.98898742	98.9		2077	2322
26	*PBB-101		124360.020	61605	62755	0.98	NO	11.41	1.01	11.37	11.44	1.9598328	98.0		1582	1588
27	*BDE-100		112660.058	57376	55284	1.04	NO	12.14	1.00	12.11	12.17	1.4573109	97.2		1756	1126
28	BDE-119/BDE-120		106498.449	54833	51666	1.06	NO	12.31	1.01	12.28	12.35	2.9183034	97.3		1756	1126
29	BDE-99		72665.984	36734	35932	1.02	NO	12.65	1.00	12.62	12.68	1.4567210	97.1		1756	1126
30	BDE-116		31390.822	16007	15384	1.04	NO	12.81	1.01	12.78	12.85	1.3752225	91.7		1756	1126
31	BDE-83		40250.854	20307	19944	1.02	NO	12.94	1.02	12.90	12.97	1.4404097	96.0		1756	1126
32	BDE-118		46034.078	23093	22941	1.01	NO	13.06	1.03	13.03	13.09	1.4103594	94.0		1756	1126
33	BDE-85		51849.406	26647	25203	1.06	NO	13.54	0.99	13.51	13.58	1.3844177	92.3		1756	1126
34	BDE-126		85116.461	42634	42483	1.00	NO	13.71	1.00	13.67	13.74	1.4953598	99.7		1756	1126

Quantify Sample Summary Report **MassLynx MassLynx V4.1 SCN 901**

Dataset: I:\Organics Instrument\HIGHRES GCMS Completed Results Files\HR-9\2109\9-210930B-PBDE-ICAL.qld

Last Altered: Friday, October 01, 2021 09:18:22 Eastern Daylight Time
Printed: Thursday, November 18, 2021 10:17:57 Eastern Standard Time

Name: 9-210930B04, Date: 30-Sep-2021, Time: 18:07:37, ID: H9-21-CS#1-009, Description: PBDEX-CS#1-002, Vial: Tray1:43

	Target Analyte	#Hom	Total Area	Ion1 Area	Ion2 Area	Ra	Ra Fail=YES	RT	RRT	RT LCL	RT UCL	Conc.	%Rec	Mod.Comment	Noise 1	Noise 2
35	BDE-105		43621.974	21839	21783	1.00	NO	13.87	1.01	13.83	13.90	1.3609777	90.7		1756	1126
36	*PBB-153		87565.125	51257	36309	1.41	NO	14.04	1.00	14.01	14.08	1.9610497	98.1		1455	2185
37	*BDE-155		110734.547	64176	46558	1.38	NO	13.71	0.97	13.67	13.74	1.9724573	98.6		2979	1414
38	BDE-154		97752.262	57735	40017	1.44	NO	14.09	1.00	14.06	14.13	1.9807423	99.0		2979	1414
39	*BDE-153		57312.175	32643	24669	1.32	NO	14.82	1.00	14.79	14.85	1.9513145	97.6		4286	2684
40	BDE-140		67413.807	38675	28739	1.35	NO	15.29	1.01	15.25	15.32	1.8716111	93.6		4286	2684
41	BDE-138/BDE-166		76002.098	44281	31721	1.40	NO	15.78	1.06	15.74	15.81	3.6469056	91.2		4286	2684
42	BDE-156		25031.756	14269	10763	1.33	NO	16.15	1.09	16.12	16.18	1.6209125	81.0		4286	2684
43	BDE-128		27318.872	15984	11335	1.41	NO	16.77	0.99	16.74	16.80	1.5747040	78.7		4286	2684
44	*BDE-184		66003.989	33393	32611	1.02	NO	16.58	0.98	16.55	16.62	2.3955942	95.8		1242	1373
45	BDE-183		45076.507	22455	22622	0.99	NO	16.96	1.00	16.92	16.99	2.4232728	96.9		1242	1373
46	BDE-191		27816.683	14165	13652	1.04	NO	17.52	1.03	17.49	17.55	2.2086102	88.3		1242	1373
47	BDE-181		26626.193	13515	13111	1.03	NO	18.06	1.01	18.02	18.09	2.1154581	84.6		1242	1373
48	BDE-190		18022.586	8974	9049	0.99	NO	18.21	1.02	18.18	18.24	2.0752325	83.0		1242	1373
49	*PBB-180		34444.418	17039	17405	0.98	NO	17.06	0.96	17.03	17.10	1.8287720	91.4		3131	1213
50	*BDE-197		37794.974	16264	21531	0.76	NO	19.43	1.00	19.40	19.46	2.4117005	96.5		2023	1361
51	BDE-203		23597.399	10291	13306	0.77	NO	19.69	1.01	19.66	19.73	2.0895118	83.6		2023	1361
52	BDE-196		24297.228	10845	13452	0.81	NO	19.82	1.02	19.79	19.85	1.9217021	76.9		2023	1361
53	*PBB-194		15152.672	8421	6732	1.25	NO	19.90	1.02	19.86	19.93	1.5446591	77.2		1200	1214
54	*BDE-208		77500.285	39123	38378	1.02	NO	21.14	0.99	21.11	21.18	4.0693069	81.4		2463	2100
55	BDE-207		110389.907	55893	54497	1.03	NO	21.27	1.00	21.24	21.31	4.8885102	97.8		2463	2100
56	BDE-206		92902.715	48390	44513	1.09	NO	21.54	1.01	21.51	21.58	5.0885911	101.8		2463	2100
57	*PBB-206		31211.275	15132	16079	0.94	NO	20.99	0.99	20.96	21.02	4.5586839	91.2		2394	1787
58	*PBB-209		28057.829	15473	12585	1.23	NO	21.90	1.03	21.86	21.93	4.3222159	86.4		1902	1605
59	*BDE-209		39431.075	22439	16992	1.32	NO	23.22	1.00	23.18	23.25	4.9351710	98.7		1746	1192
60	*DBDPE		45333.194	21924	23409	0.94	NO	24.62	1.00	24.59	24.65	9.4641262	94.6		1118	1446
61	13C12-BDE-3		11493184....	5792130	5701055	1.02	NO	5.03	0.47	5.00	5.07	49.993288	100.0		5579	7916
62	13C12-BDE-15		7832217.5...	2663610	5168608	0.52	NO	7.06	0.66	7.02	7.09	48.840729	97.7		6904	15232
63	13C12-BDE-28		4499065.0...	2283580	2215485	1.03	NO	8.60	0.81	8.57	8.64	47.971442	95.9		4431	5306
64	13C6-HBB		2506512.9...	1804245	702268	2.57	NO	9.94	0.93	9.91	9.97	48.531008	97.1		3841	2772
65	13C12-BDE-47		4128577.6...	2515420	1613158	1.56	NO	10.50	0.98	10.47	10.53	49.988592	100.0		11057	6303
66	13C12-BDE-77		4770919.2...	2906590	1864329	1.56	NO	11.26	1.06	11.22	11.29	49.069611	98.1		11057	6303
67	13C12-BDE-100		4474591.0...	2265332	2209260	1.03	NO	12.14	0.80	12.11	12.17	50.998412	102.0		7926	6222
68	13C12-BDE-99		2664477.6...	1354666	1309812	1.03	NO	12.64	0.84	12.60	12.67	49.302881	98.6		7926	6222
69	13C12-BDE-126		3077073.2...	1557653	1519421	1.03	NO	13.71	0.91	13.67	13.74	45.372710	90.7		7926	6222
70	13C12-BDE-154		2585914.6...	1498914	1087001	1.38	NO	14.08	0.93	14.05	14.11	47.743639	95.5		3228	1870
71	13C12-BDE-153		1392570.0...	808790	583780	1.39	NO	14.82	0.98	14.79	14.85	46.861253	93.7		5178	4874

Quantify Sample Summary Report **MassLynx MassLynx V4.1 SCN 901**

Dataset: I:\Organics Instrument\HIGHRES GCMS Completed Results Files\HR-9\2109\9-210930B-PBDE-ICAL.qld

Last Altered: Friday, October 01, 2021 09:18:22 Eastern Daylight Time
Printed: Thursday, November 18, 2021 10:17:57 Eastern Standard Time

Name: 9-210930B04, Date: 30-Sep-2021, Time: 18:07:37, ID: H9-21-CS#1-009, Description: PBDEX-CS#1-002, Vial: Tray1:43

	Target Analyte	#Hom	Total Area	Ion1 Area	Ion2 Area	Ra	Ra Fail=YES	RT	RRT	RT LCL	RT UCL	Conc.	%Rec	Mod.Comment	Noise 1	Noise 2
72	13C12-BDE-183		1116729.626	568475	548255	1.04	NO	16.95	0.95	16.91	16.98	47.442201	94.9		2114	2293
73	13C12-BDE-197		1922343.1...	862801	1059542	0.81	NO	19.42	1.09	19.38	19.45	95.805455	95.8		4762	3378
74	13C12-BDE-207		5650476.2...	2845283	2805194	1.01	NO	21.26	0.99	21.23	21.29	240.34185	96.1		14173	13023
75	13C12-BDE-209		2032219.0...	1137437	894782	1.27	NO	23.21	1.08	23.18	23.24	236.08447	94.4		11090	8085
76	13C14-DBDPE		2457111.875	1264917	1192195	1.06	NO	24.61	1.14	24.58	24.64	447.86767	89.6		3854	5743
77	13C12-BDE-138 (CL)		1203531.4...	698200	505331	1.38	NO	15.77	1.04	15.73	15.80	44.893959	89.8		5178	4874
78	13C12-BDE-79 (IS)		4886810.5...	2981251	1905560	1.56	NO	10.66	0.71	10.63	10.70	52.463692	104.9		11057	6303
79	13C12-BDE-139 (IS)		1710704.2...	987412	723292	1.37	NO	15.09	0.00	15.05	15.12	51.967275	103.9		5178	4874
80	13C12-BDE-180 (IS)		649675.594	332253	317422	1.05	NO	17.81	1.18	17.78	17.85	47.140052	94.3		2114	2293
81	13C12-BDE-206 (IS)		4667082.0...	2358069	2309014	1.02	NO	21.53	1.43	21.50	21.56	190.69985	76.3		14173	13023
82	Total MoF1	3		268252								3.1651193			60161	
83	Total DiF2	5		266053								6.9960527			1813	
84	Total TriF3	6		315905								7.9025465			3107	
85	Total PBEBF3	1		29931								0.93363835			1643	
86	Total TePBBF3	1		36097								1.0014103			2451	
87	Total HBBF4	1		15471								1.0013044			915	
88	Total TetraF4	8		223278								7.7713817			2077	
89	Total PePBBF4	1		61605								1.9598328			1582	
90	Total PentaF5	9		299468								14.299082			1756	
91	Total PBB-153	1		51257								1.9610497			1455	
92	Total HexaF5	2		121911								3.9531996			2979	
93	Total HexaF6	5		145851								10.665448			4286	
94	Total HeptaF6	5		92501								11.218168			1242	
95	Total PBB-180	1		17039								1.8287720			3131	
96	Total OctaF7	3		37401								6.4229144			2023	
97	Total PBB-194	1		8421								1.5446591			1200	
98	Total NonaF8	3		143405								14.046408			2463	
99	Total PBB-206	1		15132								4.5586839			2394	
100	Total PBB-209	1		15473								4.3222159			1902	
101	Total DecaF9	1		22439								4.9351710			1746	
102	Total DBDPEF10															
103	Total 13CMoF1	1		5792130								49.993288			5579	
104	Total 13CDiF2	1		2663610								48.840729			6904	
105	Total 13CTriF3	1		2283580								47.971442			4431	
106	Total 13CHBBF4	1		1804245								48.531008			3841	
107	Total 13CTetraF4	3		8403261								151.52189			11057	
108	Total 13CPentaF5	3		5177650								145.67400			7926	

Quantify Sample Summary Report **MassLynx MassLynx V4.1 SCN 901**

Dataset: I:\Organics Instrument\HIGHRES GCMS Completed Results Files\HR-9\2109\9-210930B-PBDE-ICAL.qld

Last Altered: Friday, October 01, 2021 09:18:22 Eastern Daylight Time
Printed: Thursday, November 18, 2021 10:17:57 Eastern Standard Time

Name: 9-210930B04, Date: 30-Sep-2021, Time: 18:07:37, ID: H9-21-CS#1-009, Description: PBDEX-CS#1-002, Vial: Tray1:43

	Target Analyte	#Hom	Total Area	Ion1 Area	Ion2 Area	Ra	Ra Fail=YES	RT	RRT	RT LCL	RT UCL	Conc.	%Rec	Mod.Comment	Noise 1	Noise 2
109	Total 13CHexaF5	1		1498914								47.743639			3228	
110	Total 13CHexaF6	3		2494403								143.72249			5178	
111	Total 13CHeptaF6	2		900728								94.582253			2114	
112	Total 13COctaF7	1		862801								95.805455			4762	
113	Total 13CNonaF8	2		5203351								431.04170			14173	
114	Total 13CDecaF9	1		1137437								236.08447			11090	
115	Total 13CDBDPEF10															
116	Lockmass F1			0											972403	
117	Lockmass F2			0											1599074	
118	Lockmass F3			0											753788	
119	Lockmass F4			0											353012	
120	Lockmass F5			0											217801	
121	Lockmass F6			0											78804	
122	Lockmass F7			0											46941	
123	Lockmass F8			0											62413	
124	Lockmass F9			0											85372	
125	Lockmass F10															

Quantify Sample Summary Report **MassLynx MassLynx V4.1 SCN 901**

Dataset: I:\Organics Instrument\HIGHRES GCMS Completed Results Files\HR-9\2109\9-210930B-PBDE-ICAL.qld

Last Altered: Friday, October 01, 2021 09:18:22 Eastern Daylight Time
Printed: Thursday, November 18, 2021 10:17:57 Eastern Standard Time

Name: 9-210930B03, Date: 30-Sep-2021, Time: 17:31:12, ID: H9-21-CS#2-009, Description: PBDEX-CS#2-002, Vial: Tray1:42

	Target Analyte	#Hom	Total Area	Ion1 Area	Ion2 Area	Ra	Ra Fail=YES	RT	RRT	RT LCL	RT UCL	Conc.	%Rec	Mod.Comment	Noise 1	Noise 2
1	*BDE-1		492207.672	249560	242647	1.03	NO	4.82	0.96	4.79	4.86	4.0222630	100.6		86145	132051
2	BDE-2		759436.001	379359	380077	1.00	NO	4.93	0.98	4.90	4.96	4.0872849	102.2		86145	132051
3	BDE-3		898095.875	444994	453102	0.98	NO	5.03	1.00	5.00	5.07	4.2120658	105.3		86145	132051
4	*BDE-10		306978.125	104048	202930	0.51	NO	6.25	0.89	6.22	6.28	3.9811011	99.5		2519	3982
5	BDE-7		335068.234	113898	221170	0.51	NO	6.62	0.94	6.59	6.66	4.0349708	100.9		2519	3982
6	BDE-8/BDE-11		933885.594	318448	615438	0.52	NO	6.79	0.96	6.75	6.82	7.9697302	99.6		2519	3982
7	BDE-12/BDE-13		1073834.2...	362611	711223	0.51	NO	6.91	0.98	6.88	6.94	8.0532243	100.7		2519	3982
8	BDE-15		645855.390	218162	427693	0.51	NO	7.05	1.00	7.01	7.08	4.0705661	101.8		2519	3982
9	*BDE-30		266049.141	131701	134348	0.98	NO	7.75	0.90	7.72	7.78	3.9925263	99.8		3446	4428
10	BDE-32		373807.110	188366	185441	1.02	NO	8.20	0.95	8.17	8.24	4.0193093	100.5		3446	4428
11	BDE-17/BDE-25		576816.032	290608	286208	1.02	NO	8.37	0.97	8.34	8.40	7.7756351	97.2		3446	4428
12	BDE-28/BDE-33		595192.156	299218	295974	1.01	NO	8.59	1.00	8.56	8.63	7.7925118	97.4		3446	4428
13	BDE-35		442435.750	222375	220060	1.01	NO	8.75	1.02	8.72	8.78	3.8946228	97.4		3446	4428
14	BDE-37		437395.844	220617	216779	1.02	NO	8.94	1.04	8.90	8.97	3.8545271	96.4		3446	4428
15	*PBEB		263427.618	133191	130237	1.02	NO	8.95	0.90	8.92	8.98	3.9535334	98.8		1440	1512
16	*PBB-52		246789.626	148582	98208	1.51	NO	9.05	0.91	9.02	9.08	3.9680278	99.2		1961	1385
17	*HBB		219498.297	63480	156018	0.41	NO	9.94	1.00	9.91	9.97	3.9140050	97.9		1232	1896
18	*BDE-75		283111.492	113765	169346	0.67	NO	9.99	0.95	9.96	10.02	3.8980647	97.5		3662	4444
19	BDE-51		314291.954	128297	185995	0.69	NO	10.07	0.96	10.03	10.10	3.9147144	97.9		3662	4444
20	BDE-49		214984.625	87931	127054	0.69	NO	10.16	0.97	10.13	10.20	3.9002375	97.5		3662	4444
21	BDE-71		219355.633	89505	129850	0.69	NO	10.23	0.98	10.19	10.26	4.0249018	100.6		3662	4444
22	BDE-47		332166.157	133647	198519	0.67	NO	10.50	1.00	10.47	10.53	3.9458945	98.6		3662	4444
23	BDE-79		389169.094	157270	231899	0.68	NO	10.66	1.02	10.63	10.70	3.9563663	98.9		3662	4444
24	BDE-66		205519.164	84364	121155	0.70	NO	10.79	1.03	10.75	10.82	3.8766968	96.9		3662	4444
25	BDE-77		369183.563	148472	220712	0.67	NO	11.26	1.00	11.23	11.29	3.9450169	98.6		3662	4444
26	*PBB-101		511507.578	256692	254816	1.01	NO	11.40	1.01	11.36	11.43	7.7198633	96.5		2086	1741
27	*BDE-100		468594.688	236546	232049	1.02	NO	12.14	1.00	12.11	12.17	5.9462183	99.1		2435	3731
28	BDE-119/BDE-120		442197.297	223637	218560	1.02	NO	12.30	1.01	12.27	12.34	11.609085	96.7		2435	3731
29	BDE-99		307717.516	155363	152354	1.02	NO	12.64	1.00	12.60	12.67	5.9217958	98.7		2435	3731
30	BDE-116		139555.376	70455	69101	1.02	NO	12.80	1.01	12.77	12.83	5.8574905	97.6		2435	3731
31	BDE-83		172330.805	86811	85520	1.02	NO	12.94	1.02	12.90	12.97	5.9083821	98.5		2435	3731
32	BDE-118		198006.875	99896	98111	1.02	NO	13.05	1.03	13.01	13.08	5.8119967	96.9		2435	3731
33	BDE-85		223086.547	112913	110174	1.02	NO	13.53	0.99	13.50	13.57	5.7067844	95.1		2435	3731
34	BDE-126		363005.812	182610	180395	1.01	NO	13.71	1.00	13.67	13.74	5.8994482	98.3		2435	3731
35	BDE-105		184519.602	91615	92905	0.99	NO	13.86	1.01	13.82	13.89	5.5154751	91.9		2435	3731
36	*PBB-153		372233.844	215962	156272	1.38	NO	14.03	1.00	14.00	14.06	7.8559547	98.2		1040	2453
37	*BDE-155		467957.719	268366	199592	1.34	NO	13.69	0.97	13.66	13.73	7.8551917	98.2		2306	1146

Quantify Sample Summary Report **MassLynx MassLynx V4.1 SCN 901**

Dataset: I:\Organics Instrument\HIGHRES GCMS Completed Results Files\HR-9\2109\9-210930B-PBDE-ICAL.qld

Last Altered: Friday, October 01, 2021 09:18:22 Eastern Daylight Time
Printed: Thursday, November 18, 2021 10:17:57 Eastern Standard Time

Name: 9-210930B03, Date: 30-Sep-2021, Time: 17:31:12, ID: H9-21-CS#2-009, Description: PBDEX-CS#2-002, Vial: Tray1:42

	Target Analyte	#Hom	Total Area	Ion1 Area	Ion2 Area	Ra	Ra Fail=YES	RT	RRT	RT LCL	RT UCL	Conc.	%Rec	Mod.Comment	Noise 1	Noise 2
38	BDE-154		410554.016	236307	174247	1.36	NO	14.08	1.00	14.05	14.11	7.9005216	98.8		2306	1146
39	*BDE-153		247003.961	141939	105064	1.35	NO	14.82	1.00	14.79	14.85	7.8134226	97.7		5016	3325
40	BDE-140		297782.789	170223	127560	1.33	NO	15.27	1.01	15.24	15.31	7.7909790	97.4		5016	3325
41	BDE-138/BDE-166		324241.641	186835	137407	1.36	NO	15.78	1.07	15.74	15.81	14.662007	91.6		5016	3325
42	BDE-156		114036.258	65571	48466	1.35	NO	16.14	1.09	16.11	16.17	6.9588408	87.0		5016	3325
43	BDE-128		129392.234	75172	54220	1.39	NO	16.76	0.99	16.73	16.79	7.0286202	87.9		5016	3325
44	*BDE-184		295001.531	148769	146233	1.02	NO	16.57	0.98	16.54	16.61	9.8057341	98.1		1791	1804
45	BDE-183		200775.172	101171	99604	1.02	NO	16.95	1.00	16.91	16.98	9.8849580	98.8		1791	1804
46	BDE-191		125174.281	65553	59621	1.10	NO	17.51	1.03	17.47	17.54	9.1021000	91.0		1791	1804
47	BDE-181		127832.364	65695	62137	1.06	NO	18.05	1.01	18.01	18.08	9.3014136	93.0		1791	1804
48	BDE-190		83234.125	41770	41464	1.01	NO	18.21	1.02	18.18	18.24	8.7773588	87.8		1791	1804
49	*PBB-180		161587.164	81427	80160	1.02	NO	17.05	0.96	17.02	17.09	7.8570649	98.2		2574	1486
50	*BDE-197		169265.328	75739	93526	0.81	NO	19.42	1.00	19.38	19.45	9.7240209	97.2		2570	660
51	BDE-203		109237.645	49422	59816	0.83	NO	19.68	1.01	19.65	19.72	8.7084641	87.1		2570	660
52	BDE-196		116691.629	53846	62846	0.86	NO	19.82	1.02	19.79	19.85	8.3091691	83.1		2570	660
53	*PBB-194		70498.559	39805	30693	1.30	NO	19.88	1.02	19.85	19.92	6.4701183	80.9		1798	1460
54	*BDE-208		368169.141	183880	184289	1.00	NO	21.13	0.99	21.10	21.16	16.832429	84.2		4983	4990
55	BDE-207		508805.766	253316	255490	0.99	NO	21.26	1.00	21.23	21.29	19.619207	98.1		4983	4990
56	BDE-206		414315.547	207229	207087	1.00	NO	21.53	1.01	21.50	21.56	19.759805	98.8		4983	4990
57	*PBB-206		145566.781	69277	76290	0.91	NO	20.98	0.99	20.94	21.01	18.512817	92.6		4475	4394
58	*PBB-209		132020.039	70229	61791	1.14	NO	21.88	1.03	21.85	21.92	17.708204	88.5		2452	3818
59	*BDE-209		178874.461	99029	79846	1.24	NO	23.21	1.00	23.18	23.24	19.721642	98.6		2310	2028
60	*DBDPE		215403.422	111998	103405	1.08	NO	24.61	1.00	24.58	24.64	37.741981	94.4		1401	1733
61	13C12-BDE-3		11938350....	6020589	5917762	1.02	NO	5.02	0.47	4.99	5.06	50.189141	100.4		2585	5357
62	13C12-BDE-15		8181805.0...	2772211	5409594	0.51	NO	7.05	0.66	7.01	7.08	49.310642	98.6		6985	20904
63	13C12-BDE-28		4827544.2...	2464791	2362754	1.04	NO	8.59	0.81	8.56	8.63	49.748605	99.5		4702	3702
64	13C6-HBB		2617493.8...	1876700	740794	2.53	NO	9.93	0.93	9.90	9.96	48.981172	98.0		4240	2354
65	13C12-BDE-47		4299066.7...	2610406	1688661	1.55	NO	10.49	0.98	10.45	10.52	50.308199	100.6		10256	5771
66	13C12-BDE-77		4993724.1...	3035643	1958081	1.55	NO	11.25	1.06	11.21	11.28	49.639709	99.3		10256	5771
67	13C12-BDE-100		4561336.2...	2315581	2245755	1.03	NO	12.13	0.80	12.09	12.16	48.583268	97.2		4982	6244
68	13C12-BDE-99		2775595.0...	1412067	1363528	1.04	NO	12.64	0.84	12.60	12.67	47.996287	96.0		4982	6244
69	13C12-BDE-126		3326382.3...	1693945	1632438	1.04	NO	13.69	0.91	13.66	13.73	45.837443	91.7		4982	6244
70	13C12-BDE-154		2722888.6...	1575715	1147174	1.37	NO	14.07	0.93	14.03	14.10	46.981030	94.0		3139	1725
71	13C12-BDE-153		1498856.4...	866670	632187	1.37	NO	14.81	0.98	14.77	14.84	47.135509	94.3		4827	3590
72	13C12-BDE-183		1219369.3...	614385	604984	1.02	NO	16.93	0.95	16.90	16.97	46.852252	93.7		2169	2125
73	13C12-BDE-197		2135218.7...	962474	1172745	0.82	NO	19.42	1.09	19.38	19.45	96.245429	96.2		3069	3170
74	13C12-BDE-207		6489373.7...	3262366	3227008	1.01	NO	21.26	0.99	21.23	21.29	248.34725	99.3		6201	13859

Quantify Sample Summary Report **MassLynx MassLynx V4.1 SCN 901**

Dataset: I:\Organics Instrument\HIGHRES GCMS Completed Results Files\HR-9\2109\9-210930B-PBDE-ICAL.qld

Last Altered: Friday, October 01, 2021 09:18:22 Eastern Daylight Time
Printed: Thursday, November 18, 2021 10:17:57 Eastern Standard Time

Name: 9-210930B03, Date: 30-Sep-2021, Time: 17:31:12, ID: H9-21-CS#2-009, Description: PBDEX-CS#2-002, Vial: Tray1:42

	Target Analyte	#Hom	Total Area	Ion1 Area	Ion2 Area	Ra	Ra Fail=YES	RT	RRT	RT LCL	RT UCL	Conc.	%Rec	Mod.Comment	Noise 1	Noise 2
75	13C12-BDE-209		2306956.3...	1285463	1021493	1.26	NO	23.20	1.08	23.17	23.23	241.12846	96.5		8534	8894
76	13C14-DBDPE		2927635.7...	1505576	1422060	1.06	NO	24.60	1.14	24.57	24.63	480.12469	96.0		4144	5451
77	13C12-BDE-138 (CL)		1312705.3...	757937	554768	1.37	NO	15.77	1.05	15.73	15.80	45.760317	91.5		4827	3590
78	13C12-BDE-79 (IS)		5056282.8...	3060807	1995476	1.53	NO	10.65	0.71	10.62	10.68	54.283109	108.6		10256	5771
79	13C12-BDE-139 (IS)		1830558.5...	1060107	770452	1.38	NO	15.08	0.00	15.04	15.11	55.608173	111.2		4827	3590
80	13C12-BDE-180 (IS)		718320.281	366102	352218	1.04	NO	17.81	1.18	17.78	17.85	52.120868	104.2		2169	2125
81	13C12-BDE-206 (IS)		5187202.7...	2608686	2578517	1.01	NO	21.52	1.43	21.49	21.55	211.95231	84.8		6201	13859
82	Total MoF1	3		1073913								12.321614			86145	
83	Total DiF2	5		1117168								28.109593			2519	
84	Total TriF3	6		1352886								31.329132			3446	
85	Total PBEBF3	1		133191								3.9535334			1440	
86	Total TePBBF3	1		148582								3.9680278			1961	
87	Total HBBF4	1		63480								3.9140050			1232	
88	Total TetraF4	8		943251								31.461893			3662	
89	Total PePBBF4	1		256692								7.7198633			2086	
90	Total PentaF5	9		1259845								58.176676			2435	
91	Total PBB-153	1		215962								7.8559547			1040	
92	Total HexaF5	2		504673								15.755713			2306	
93	Total HexaF6	5		639740								44.253869			5016	
94	Total HeptaF6	5		422958								46.871565			1791	
95	Total PBB-180	1		81427								7.8570649			2574	
96	Total OctaF7	3		179007								26.741654			2570	
97	Total PBB-194	1		39805								6.4701183			1798	
98	Total NonaF8	3		644425								56.211441			4983	
99	Total PBB-206	1		69277								18.512817			4475	
100	Total PBB-209	1		70229								17.708204			2452	
101	Total DecaF9	1		99029								19.721642			2310	
102	Total DBDPEF10															
103	Total 13CMoF1	1		6020589								50.189141			2585	
104	Total 13CDiF2	1		2772211								49.310642			6985	
105	Total 13CTriF3	1		2464791								49.748605			4702	
106	Total 13CHBBF4	1		1876700								48.981172			4240	
107	Total 13CTetraF4	3		8706856								154.23102			10256	
108	Total 13CPentaF5	3		5421593								142.41700			4982	
109	Total 13CHexaF5	1		1575715								46.981030			3139	
110	Total 13CHexaF6	3		2684713								148.50400			4827	
111	Total 13CHeptaF6	2		980488								98.973120			2169	

Quantify Sample Summary Report **MassLynx MassLynx V4.1 SCN 901**

Dataset: I:\Organics Instrument\HIGHRES GCMS Completed Results Files\HR-9\2109\9-210930B-PBDE-ICAL.qld

Last Altered: Friday, October 01, 2021 09:18:22 Eastern Daylight Time
Printed: Thursday, November 18, 2021 10:17:57 Eastern Standard Time

Name: 9-210930B03, Date: 30-Sep-2021, Time: 17:31:12, ID: H9-21-CS#2-009, Description: PBDEX-CS#2-002, Vial: Tray1:42

	Target Analyte	#Hom	Total Area	Ion1 Area	Ion2 Area	Ra	Ra Fail=YES	RT	RRT	RT LCL	RT UCL	Conc.	%Rec	Mod.Comment	Noise 1	Noise 2
112	Total 13COctaF7	1		962474								96.245429			3069	
113	Total 13CNonaF8	2		5871051								460.29955			6201	
114	Total 13CDecaF9	1		1285463								241.12846			8534	
115	Total 13CDBDPEF10															
116	Lockmass F1			0											728531	
117	Lockmass F2			0											1821051	
118	Lockmass F3			0											795082	
119	Lockmass F4			0											347997	
120	Lockmass F5			0											209855	
121	Lockmass F6			0											84054	
122	Lockmass F7			0											49573	
123	Lockmass F8			0											55433	
124	Lockmass F9			0											86919	
125	Lockmass F10															

Quantify Sample Summary Report **MassLynx MassLynx V4.1 SCN 901**

Dataset: I:\Organics Instrument\HIGHRES GCMS Completed Results Files\HR-9\2109\9-210930B-PBDE-ICAL.qld

Last Altered: Friday, October 01, 2021 09:18:22 Eastern Daylight Time
Printed: Thursday, November 18, 2021 10:17:57 Eastern Standard Time

Name: 9-210930B02, Date: 30-Sep-2021, Time: 16:54:31, ID: H9-21-CCV-781, Description: PBDEX-CS#3-002, Vial: Tray1:40

	Target Analyte	#Hom	Total Area	Ion1 Area	Ion2 Area	Ra	Ra Fail=YES	RT	RRT	RT LCL	RT UCL	Conc.	%Rec	Mod.Comment	Noise 1	Noise 2
1	*BDE-1		1494600.2...	759551	735050	1.03	NO	4.82	0.96	4.79	4.86	19.638493	98.2		70693	111552
2	BDE-2		2390553.8...	1200946	1189608	1.01	NO	4.92	0.98	4.88	4.95	20.687275	103.4		70693	111552
3	BDE-3		2772840.1...	1388660	1384180	1.00	NO	5.03	1.00	5.00	5.07	20.910205	104.6		70693	111552
4	*BDE-10		976880.938	329406	647475	0.51	NO	6.24	0.89	6.21	6.28	20.378514	101.9		2749	3117
5	BDE-7		1043502.0...	352909	690593	0.51	NO	6.62	0.94	6.59	6.66	20.213223	101.1		2749	3117
6	BDE-8/BDE-11		2961903.1...	1000129	1961774	0.51	NO	6.79	0.96	6.75	6.82	40.658924	101.6		2749	3117
7	BDE-12/BDE-13		3437101.3...	1169049	2268052	0.52	NO	6.91	0.98	6.88	6.94	41.462928	103.7		2749	3117
8	BDE-15		2027320.7...	681498	1345822	0.51	NO	7.05	1.00	7.01	7.08	20.553088	102.8		2749	3117
9	*BDE-30		830456.001	417126	413330	1.01	NO	7.74	0.90	7.70	7.77	20.497095	102.5		5166	6372
10	BDE-32		1145387.0...	576286	569101	1.01	NO	8.19	0.95	8.16	8.23	20.255636	101.3		5166	6372
11	BDE-17/BDE-25		1838945.3...	922076	916869	1.01	NO	8.36	0.97	8.33	8.39	40.771543	101.9		5166	6372
12	BDE-28/BDE-33		1865399.0...	938161	927238	1.01	NO	8.58	1.00	8.55	8.62	40.168146	100.4		5166	6372
13	BDE-35		1410822.8...	704625	706198	1.00	NO	8.74	1.02	8.70	8.77	20.425724	102.1		5166	6372
14	BDE-37		1406906.8...	703005	703902	1.00	NO	8.93	1.04	8.89	8.96	20.391612	102.0		5166	6372
15	*PBEB		858735.062	430588	428147	1.01	NO	8.94	0.90	8.90	8.97	20.934543	104.7		1963	1429
16	*PBB-52		777337.250	469837	307500	1.53	NO	9.04	0.91	9.00	9.07	20.301937	101.5		2773	2635
17	*HBB		698568.594	200247	498322	0.40	NO	9.92	1.00	9.88	9.95	20.233894	101.2		1579	2233
18	*BDE-75		885679.344	358273	527406	0.68	NO	9.98	0.95	9.95	10.01	20.792039	104.0		6108	5991
19	BDE-51		996620.344	407895	588726	0.69	NO	10.05	0.96	10.02	10.09	21.165356	105.8		6108	5991
20	BDE-49		668071.938	266562	401510	0.66	NO	10.14	0.97	10.11	10.17	20.665023	103.3		6108	5991
21	BDE-71		673092.375	273133	399960	0.68	NO	10.21	0.98	10.18	10.25	21.057664	105.3		6108	5991
22	BDE-47		981431.532	399090	582341	0.69	NO	10.48	1.00	10.44	10.51	20.040529	100.2		6108	5991
23	BDE-79		1171152.657	472617	698536	0.68	NO	10.64	1.02	10.60	10.67	20.300217	101.5		6108	5991
24	BDE-66		627742.406	252436	375307	0.67	NO	10.76	1.03	10.73	10.79	20.189241	100.9		6108	5991
25	BDE-77		1093813.1...	442958	650855	0.68	NO	11.23	1.00	11.20	11.27	19.790760	99.0		6108	5991
26	*PBB-101		1572908.3...	791575	781334	1.01	NO	11.38	1.01	11.35	11.42	40.475289	101.2		2106	2148
27	*BDE-100		1394390.9...	702904	691487	1.02	NO	12.12	1.00	12.08	12.15	29.856623	99.5		1744	4607
28	BDE-119/BDE-120		1369998.2...	688285	681713	1.01	NO	12.29	1.01	12.26	12.32	59.959669	99.9		1744	4607
29	BDE-99		942384.313	476847	465538	1.02	NO	12.63	1.00	12.59	12.66	30.041724	100.1		1744	4607
30	BDE-116		432385.360	219796	212590	1.03	NO	12.77	1.01	12.74	12.81	30.254733	100.8		1744	4607
31	BDE-83		541449.876	272660	268790	1.01	NO	12.91	1.02	12.88	12.94	30.947191	103.2		1744	4607
32	BDE-118		615518.376	310322	305196	1.02	NO	13.02	1.03	12.99	13.06	30.119200	100.4		1744	4607
33	BDE-85		712112.907	359759	352354	1.02	NO	13.52	0.99	13.49	13.55	30.368564	101.2		1744	4607
34	BDE-126		1134034.5...	573500	560534	1.02	NO	13.68	1.00	13.65	13.72	30.384849	101.3		1744	4607
35	BDE-105		602616.876	305643	296974	1.03	NO	13.84	1.01	13.81	13.88	30.028873	100.1		1744	4607
36	*PBB-153		1170796.0...	670329	500467	1.34	NO	14.02	1.00	13.98	14.05	40.347270	100.9		966	1791
37	*BDE-155		1469624.3...	847354	622271	1.36	NO	13.68	0.97	13.65	13.72	40.281563	100.7		3292	1681

Quantify Sample Summary Report **MassLynx MassLynx V4.1 SCN 901**

Dataset: I:\Organics Instrument\HIGHRES GCMS Completed Results Files\HR-9\2109\9-210930B-PBDE-ICAL.qld

Last Altered: Friday, October 01, 2021 09:18:22 Eastern Daylight Time
Printed: Thursday, November 18, 2021 10:17:57 Eastern Standard Time

Name: 9-210930B02, Date: 30-Sep-2021, Time: 16:54:31, ID: H9-21-CCV-781, Description: PBDEX-CS#3-002, Vial: Tray1:40

	Target Analyte	#Hom	Total Area	Ion1 Area	Ion2 Area	Ra	Ra Fail=YES	RT	RRT	RT LCL	RT UCL	Conc.	%Rec	Mod.Comment	Noise 1	Noise 2
38	BDE-154		1279753.9...	738888	540866	1.37	NO	14.05	1.00	14.02	14.09	40.133311	100.3		3292	1681
39	*BDE-153		763667.844	439487	324181	1.36	NO	14.80	1.00	14.76	14.83	39.586987	99.0		6205	5803
40	BDE-140		928989.969	533780	395210	1.35	NO	15.25	1.01	15.22	15.28	39.687456	99.2		6205	5803
41	BDE-138/BDE-166		1052846.4...	603192	449654	1.34	NO	15.75	1.07	15.72	15.79	77.739089	97.2		6205	5803
42	BDE-156		383715.766	222230	161486	1.38	NO	16.12	1.09	16.08	16.15	38.234321	95.6		6205	5803
43	BDE-128		450854.890	258131	192724	1.34	NO	16.74	0.99	16.70	16.77	39.989728	100.0		6205	5803
44	*BDE-184		987419.782	498558	488862	1.02	NO	16.56	0.98	16.53	16.59	50.525865	101.1		1918	2376
45	BDE-183		656665.282	333818	322848	1.03	NO	16.92	1.00	16.89	16.96	49.769694	99.5		1918	2376
46	BDE-191		451461.844	230165	221297	1.04	NO	17.48	1.03	17.45	17.52	50.536323	101.1		1918	2376
47	BDE-181		435601.141	221332	214269	1.03	NO	18.03	1.01	18.00	18.07	48.792518	97.6		1918	2376
48	BDE-190		296587.625	150859	145729	1.04	NO	18.19	1.02	18.15	18.22	48.147257	96.3		1918	2376
49	*PBB-180		528685.844	266117	262569	1.01	NO	17.03	0.96	17.00	17.06	39.573754	98.9		2981	1710
50	*BDE-197		540442.453	241535	298907	0.81	NO	19.40	1.00	19.37	19.44	50.081056	100.2		4235	2406
51	BDE-203		388569.954	174880	213690	0.82	NO	19.67	1.01	19.64	19.70	49.967152	99.9		4235	2406
52	BDE-196		418524.797	187448	231077	0.81	NO	19.80	1.02	19.76	19.83	48.071229	96.1		4235	2406
53	*PBB-194		261703.031	147297	114407	1.29	NO	19.87	1.02	19.84	19.91	38.742431	96.9		2544	1893
54	*BDE-208		1402482.5...	705008	697475	1.01	NO	21.13	1.00	21.10	21.16	102.45130	102.5		7898	10220
55	BDE-207		1598657.6...	806892	791766	1.02	NO	21.25	1.00	21.22	21.28	98.493036	98.5		7898	10220
56	BDE-206		1250398.0...	633351	617047	1.03	NO	21.52	1.01	21.49	21.55	95.284072	95.3		7898	10220
57	*PBB-206		531938.844	257909	274030	0.94	NO	20.97	0.99	20.93	21.00	108.09175	108.1		11433	7396
58	*PBB-209		499366.625	268612	230754	1.16	NO	21.87	1.03	21.84	21.91	107.02243	107.0		3052	3811
59	*BDE-209		515885.063	285992	229893	1.24	NO	23.18	1.00	23.15	23.22	98.772654	98.8		3297	2625
60	*DBDPE		634109.062	329895	304214	1.08	NO	24.57	1.00	24.53	24.60	204.13548	102.1		1580	2210
61	13C12-BDE-3		7424774.7...	3704895	3719880	1.00	NO	5.02	0.47	4.99	5.06	53.071673	106.1		2826	4510
62	13C12-BDE-15		5086441.2...	1728751	3357690	0.51	NO	7.04	0.66	7.01	7.07	52.121824	104.2		7110	16843
63	13C12-BDE-28		2935191.8...	1494471	1440721	1.04	NO	8.58	0.81	8.55	8.62	51.428656	102.9		4596	3498
64	13C6-HBB		1611407.9...	1157197	454211	2.55	NO	9.92	0.93	9.88	9.95	51.269966	102.5		2455	2211
65	13C12-BDE-47		2501008.0...	1515276	985732	1.54	NO	10.48	0.98	10.44	10.51	49.761529	99.5		5712	8357
66	13C12-BDE-77		2949251.0...	1786527	1162724	1.54	NO	11.23	1.06	11.20	11.27	49.846016	99.7		5712	8357
67	13C12-BDE-100		2703207.8...	1369612	1333596	1.03	NO	12.12	0.80	12.08	12.15	47.106253	94.2		4634	5388
68	13C12-BDE-99		1675562.0...	848951	826612	1.03	NO	12.61	0.84	12.58	12.65	47.404168	94.8		4634	5388
69	13C12-BDE-126		2017619.0...	1033094	984525	1.05	NO	13.67	0.91	13.64	13.70	45.487478	91.0		4634	5388
70	13C12-BDE-154		1670847.5...	966272	704575	1.37	NO	14.05	0.93	14.02	14.09	47.166534	94.3		2937	1516
71	13C12-BDE-153		914638.532	533311	381328	1.40	NO	14.78	0.98	14.75	14.82	47.058939	94.1		4110	3514
72	13C12-BDE-183		792098.469	399373	392726	1.02	NO	16.92	0.95	16.89	16.96	48.571124	97.1		1948	1851
73	13C12-BDE-197		1323720.3...	590708	733013	0.81	NO	19.39	1.09	19.36	19.43	95.222096	95.2		4812	3586
74	13C12-BDE-207		4061459.8...	2050020	2011440	1.02	NO	21.24	0.99	21.20	21.27	260.45740	104.2		7260	11686

Quantify Sample Summary Report **MassLynx MassLynx V4.1 SCN 901**

Dataset: I:\Organics Instrument\HIGHRES GCMS Completed Results Files\HR-9\2109\9-210930B-PBDE-ICAL.qld

Last Altered: Friday, October 01, 2021 09:18:22 Eastern Daylight Time
Printed: Thursday, November 18, 2021 10:17:57 Eastern Standard Time

Name: 9-210930B02, Date: 30-Sep-2021, Time: 16:54:31, ID: H9-21-CCV-781, Description: PBDEX-CS#3-002, Vial: Tray1:40

	Target Analyte	#Hom	Total Area	Ion1 Area	Ion2 Area	Ra	Ra Fail=YES	RT	RRT	RT LCL	RT UCL	Conc.	%Rec	Mod.Comment	Noise 1	Noise 2
75	13C12-BDE-209		1328465.6...	741220	587246	1.26	NO	23.17	1.08	23.14	23.21	232.67913	93.1		8752	7493
76	13C14-DBDPE		1593435.8...	838186	755250	1.11	NO	24.56	1.14	24.52	24.59	437.89457	87.6		3121	5567
77	13C12-BDE-138 (CL)		828057.094	479236	348821	1.37	NO	15.74	1.05	15.71	15.78	47.226585	94.5		4110	3514
78	13C12-BDE-79 (IS)		2973838.1...	1806918	1166920	1.55	NO	10.64	0.71	10.60	10.67	31.926454	63.9		5712	8357
79	13C12-BDE-139 (IS)		1118868.719	652260	466608	1.40	NO	15.05	0.00	15.02	15.09	33.988668	68.0		4110	3514
80	13C12-BDE-180 (IS)		450105.547	229650	220456	1.04	NO	17.79	1.18	17.75	17.82	32.659375	65.3		1948	1851
81	13C12-BDE-206 (IS)		3095531.6...	1561359	1534173	1.02	NO	21.51	1.43	21.47	21.54	126.48533	50.6		7260	11686
82	Total MoF1	3		3349157								61.235974			70693	
83	Total DiF2	5		3532992								143.26668			2749	
84	Total TriF3	6		4261279								162.50976			5166	
85	Total PBEBF3	1		430588								20.934543			1963	
86	Total TePBBF3	1		469837								20.301937			2773	
87	Total HBBF4	1		200247								20.233894			1579	
88	Total TetraF4	8		2872963								164.00083			6108	
89	Total PePBBF4	1		791575								40.475289			2106	
90	Total PentaF5	9		3909717								301.96143			1744	
91	Total PBB-153	1		670329								40.347270			966	
92	Total HexaF5	2		1586242								80.414874			3292	
93	Total HexaF6	5		2056819								235.23758			6205	
94	Total HeptaF6	5		1434731								247.77166			1918	
95	Total PBB-180	1		266117								39.573754			2981	
96	Total OctaF7	3		603863								148.11944			4235	
97	Total PBB-194	1		147297								38.742431			2544	
98	Total NonaF8	3		2145251								296.22841			7898	
99	Total PBB-206	1		257909								108.09175			11433	
100	Total PBB-209	1		268612								107.02243			3052	
101	Total DecaF9	1		285992								98.772654			3297	
102	Total DBDPEF10															
103	Total 13CMoF1	1		3704895								53.071673			2826	
104	Total 13CDiF2	1		1728751								52.121824			7110	
105	Total 13CTriF3	1		1494471								51.428656			4596	
106	Total 13CHBBF4	1		1157197								51.269966			2455	
107	Total 13CTetraF4	3		5108721								131.53400			5712	
108	Total 13CPentaF5	3		3251657								139.99790			4634	
109	Total 13CHexaF5	1		966272								47.166534			2937	
110	Total 13CHexaF6	3		1664807								128.27419			4110	
111	Total 13CHeptaF6	2		629023								81.230499			1948	

Quantify Sample Summary Report **MassLynx MassLynx V4.1 SCN 901**

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Printed: Thursday, November 18, 2021 10:17:57 Eastern Standard Time

Name: 9-210930B02, Date: 30-Sep-2021, Time: 16:54:31, ID: H9-21-CCV-781, Description: PBDEX-CS#3-002, Vial: Tray1:40

	Target Analyte	#Hom	Total Area	Ion1 Area	Ion2 Area	Ra	Ra Fail=YES	RT	RRT	RT LCL	RT UCL	Conc.	%Rec	Mod.Comment	Noise 1	Noise 2
112	Total 13COctaF7	1		590708								95.222096			4812	
113	Total 13CNonaF8	2		3611379								386.94274			7260	
114	Total 13CDecaF9	1		741220								232.67913			8752	
115	Total 13CDBDPEF10															
116	Lockmass F1			0											1185928	
117	Lockmass F2			0											1718258	
118	Lockmass F3			0											906251	
119	Lockmass F4			0											301519	
120	Lockmass F5			0											171569	
121	Lockmass F6			0											76823	
122	Lockmass F7			0											45522	
123	Lockmass F8			0											63165	
124	Lockmass F9			0											90996	
125	Lockmass F10															

Quantify Sample Summary Report **MassLynx MassLynx V4.1 SCN 901**

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Last Altered: Friday, October 01, 2021 09:18:22 Eastern Daylight Time
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Name: 9-210930B06, Date: 30-Sep-2021, Time: 19:20:36, ID: H9-21-CS#4-009, Description: PBDEX-CS#4-002, Vial: Tray1:45

	Target Analyte	#Hom	Total Area	Ion1 Area	Ion2 Area	Ra	Ra Fail=YES	RT	RRT	RT LCL	RT UCL	Conc.	%Rec	Mod.Comment	Noise 1	Noise 2
1	*BDE-1		8623360.5...	4351755	4271606	1.02	NO	4.83	0.96	4.80	4.87	77.276950	96.6		74478	89058
2	BDE-2		13870113....	7027340	6842774	1.03	NO	4.94	0.98	4.91	4.97	81.860630	102.3		74478	89058
3	BDE-3		16158682....	8177406	7981277	1.02	NO	5.04	1.00	5.01	5.08	83.105494	103.9		74478	89058
4	*BDE-10		5663677.2...	1940865	3722813	0.52	NO	6.26	0.89	6.23	6.29	78.570187	98.2		6637	7759
5	BDE-7		6180699.0...	2102534	4078166	0.52	NO	6.64	0.94	6.61	6.67	79.617448	99.5		6637	7759
6	BDE-8/BDE-11		17746568....	6040469	11706100	0.52	NO	6.80	0.96	6.76	6.83	162.00479	101.3		6637	7759
7	BDE-12/BDE-13		20581550....	6999098	13582452	0.52	NO	6.93	0.98	6.89	6.96	165.11028	103.2		6637	7759
8	BDE-15		12300417....	4204591	8095827	0.52	NO	7.07	1.00	7.03	7.10	82.928324	103.7		6637	7759
9	*BDE-30		4896622.7...	2456401	2440222	1.01	NO	7.76	0.90	7.73	7.79	79.074824	98.8		7872	8080
10	BDE-32		6784873.2...	3392813	3392060	1.00	NO	8.22	0.95	8.18	8.25	78.505717	98.1		7872	8080
11	BDE-17/BDE-25		11076062....	5549128	5526935	1.00	NO	8.37	0.97	8.34	8.40	160.67178	100.4		7872	8080
12	BDE-28/BDE-33		11453633....	5758124	5695510	1.01	NO	8.60	1.00	8.57	8.64	161.36867	100.9		7872	8080
13	BDE-35		8482563.5...	4279710	4202854	1.02	NO	8.76	1.02	8.73	8.79	80.352239	100.4		7872	8080
14	BDE-37		8418902.2...	4257583	4161319	1.02	NO	8.95	1.04	8.92	8.98	79.837621	99.8		7872	8080
15	*PBEB		4969560.2...	2512257	2457303	1.02	NO	8.96	0.90	8.93	8.99	81.035456	101.3		2133	1740
16	*PBB-52		4629511.0...	2804108	1825404	1.54	NO	9.06	0.91	9.03	9.09	80.875306	101.1		2348	5052
17	*HBB		4159368.5...	1201537	2957832	0.41	NO	9.95	1.00	9.92	9.99	80.584336	100.7		1856	1840
18	*BDE-75		5327809.7...	2145370	3182440	0.67	NO	10.00	0.95	9.97	10.04	78.524213	98.2		6807	6768
19	BDE-51		6086101.7...	2467051	3619051	0.68	NO	10.08	0.96	10.04	10.11	81.146421	101.4		6807	6768
20	BDE-49		4096335.3...	1659792	2436544	0.68	NO	10.17	0.97	10.13	10.20	79.550424	99.4		6807	6768
21	BDE-71		4124840.2...	1677835	2447005	0.69	NO	10.24	0.98	10.21	10.27	81.017153	101.3		6807	6768
22	BDE-47		6246909.0...	2529924	3716985	0.68	NO	10.50	1.00	10.47	10.53	79.975442	100.0		6807	6768
23	BDE-79		7416834.7...	2996596	4420239	0.68	NO	10.67	1.02	10.64	10.71	80.712369	100.9		6807	6768
24	BDE-66		3939912.1...	1595926	2343986	0.68	NO	10.79	1.03	10.75	10.82	79.553519	99.4		6807	6768
25	BDE-77		7071571.5...	2864118	4207454	0.68	NO	11.27	1.00	11.24	11.30	80.421520	100.5		6807	6768
26	*PBB-101		9964312.5...	5008796	4955517	1.01	NO	11.41	1.01	11.37	11.44	160.97863	100.6		4275	1374
27	*BDE-100		8957116.0...	4538834	4418283	1.03	NO	12.15	1.00	12.12	12.19	121.57938	101.3		14577	1
28	BDE-119/BDE-120		9218401.5...	4654490	4563912	1.02	NO	12.31	1.01	12.28	12.35	249.62132	104.0		14577	1
29	BDE-99		5992188.7...	3031059	2961130	1.02	NO	12.65	1.00	12.62	12.68	121.00299	100.8		14577	1
30	BDE-116		2800887.2...	1407884	1393003	1.01	NO	12.81	1.01	12.78	12.85	121.25644	101.0		14577	1
31	BDE-83		3436443.3...	1737017	1699427	1.02	NO	12.94	1.02	12.90	12.97	121.52315	101.3		14577	1
32	BDE-118		4052421.0...	2057295	1995126	1.03	NO	13.06	1.03	13.03	13.09	122.68848	102.2		14577	1
33	BDE-85		4627866.5...	2328719	2299147	1.01	NO	13.55	0.99	13.51	13.58	122.10770	101.8		14577	1
34	BDE-126		7606090.2...	3837583	3768508	1.02	NO	13.72	1.00	13.69	13.75	119.91642	99.9		14577	1
35	BDE-105		4027857.0...	2036711	1991146	1.02	NO	13.87	1.01	13.83	13.90	124.18199	103.5		14577	1
36	*PBB-153		7435419.7...	4285421	3149999	1.36	NO	14.04	1.00	14.01	14.08	159.52643	99.7		2761	1498
37	*BDE-155		9537838.5...	5478632	4059207	1.35	NO	13.71	0.97	13.67	13.74	162.75869	101.7		2414	2500

Quantify Sample Summary Report **MassLynx MassLynx V4.1 SCN 901**

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Name: 9-210930B06, Date: 30-Sep-2021, Time: 19:20:36, ID: H9-21-CS#4-009, Description: PBDEX-CS#4-002, Vial: Tray1:45

	Target Analyte	#Hom	Total Area	Ion1 Area	Ion2 Area	Ra	Ra Fail=YES	RT	RRT	RT LCL	RT UCL	Conc.	%Rec	Mod.Comment	Noise 1	Noise 2
38	BDE-154		8308481.2...	4784554	3523927	1.36	NO	14.09	1.00	14.06	14.13	161.31916	100.8		2414	2500
39	*BDE-153		5013365.5...	2900988	2112378	1.37	NO	14.83	1.00	14.80	14.86	163.45795	102.2		9781	8623
40	BDE-140		6162031.0...	3539031	2623000	1.35	NO	15.29	1.01	15.25	15.32	163.89298	102.4		9781	8623
41	BDE-138/BDE-166		7231813.2...	4148865	3082949	1.35	NO	15.78	1.06	15.74	15.81	332.44199	103.9	ES211001MJ	9781	8623
42	BDE-156		2747802.1...	1564730	1183073	1.32	NO	16.15	1.09	16.12	16.19	170.46038	106.5		9781	8623
43	BDE-128		3129664.0...	1824450	1305214	1.40	NO	16.77	0.99	16.74	16.80	172.82383	108.0		9781	8623
44	*BDE-184		6572419.7...	3335089	3237331	1.03	NO	16.58	0.98	16.55	16.62	202.60680	101.3		3176	2837
45	BDE-183		4421586.0...	2230174	2191412	1.02	NO	16.96	1.00	16.92	16.99	201.89045	100.9		3176	2837
46	BDE-191		3036659.3...	1538523	1498137	1.03	NO	17.52	1.03	17.49	17.55	204.78374	102.4		3176	2837
47	BDE-181		3088849.3...	1554959	1533890	1.01	NO	18.07	1.01	18.04	18.10	208.43841	104.2		3176	2837
48	BDE-190		2140024.3...	1077498	1062527	1.01	NO	18.22	1.02	18.19	18.25	209.29268	104.6		3176	2837
49	*PBB-180		3662688.8...	1855075	1807614	1.03	NO	17.06	0.96	17.03	17.10	165.16818	103.2		3026	2592
50	*BDE-197		3639901.0...	1623924	2015977	0.81	NO	19.43	1.00	19.40	19.46	200.91843	100.5		5272	4067
51	BDE-203		2756322.3...	1245569	1510753	0.82	NO	19.71	1.01	19.67	19.74	211.13079	105.6		5272	4067
52	BDE-196		3276047.2...	1464563	1811485	0.81	NO	19.83	1.02	19.80	19.87	224.14052	112.1		5272	4067
53	*PBB-194		2065460.6...	1148833	916628	1.25	NO	19.90	1.02	19.86	19.93	182.13828	113.8		1885	3378
54	*BDE-208		13009668....	6568213	6441456	1.02	NO	21.15	0.99	21.12	21.19	439.86359	110.0		23215	14319
55	BDE-207		14337144....	7255888	7081257	1.02	NO	21.27	1.00	21.24	21.31	408.83160	102.2		23215	14319
56	BDE-206		11134325....	5632753	5501573	1.02	NO	21.54	1.01	21.51	21.58	392.70615	98.2		23215	14319
57	*PBB-206		4251140.2...	2110840	2140300	0.99	NO	20.99	0.99	20.96	21.02	399.82325	100.0		14712	18863
58	*PBB-209		4160938.7...	2299726	1861213	1.24	NO	21.90	1.03	21.86	21.93	412.74171	103.2		8185	7925
59	*BDE-209		4902870.0...	2726513	2176357	1.25	NO	23.23	1.00	23.19	23.26	396.28310	99.1		3623	3786
60	*DBDPE		6185075.0...	2996556	3188519	0.94	NO	24.63	1.00	24.60	24.66	805.11299	100.6		2523	3144
61	13C12-BDE-3		10886617....	5507223	5379395	1.02	NO	5.03	0.47	5.00	5.07	48.918247	97.8		4270	6111
62	13C12-BDE-15		7648664.5...	2587924	5060741	0.51	NO	7.06	0.66	7.02	7.09	49.270799	98.5		7024	20543
63	13C12-BDE-28		4486117.0...	2284645	2201472	1.04	NO	8.60	0.81	8.57	8.64	49.412599	98.8		5012	3971
64	13C6-HBB		2409088.0...	1731322	677767	2.55	NO	9.94	0.93	9.91	9.97	48.184641	96.4		3211	2044
65	13C12-BDE-47		3989080.5...	2430654	1558426	1.56	NO	10.50	0.98	10.47	10.53	49.894175	99.8		7629	5259
66	13C12-BDE-77		4692180.6...	2852094	1840087	1.55	NO	11.26	1.06	11.23	11.29	49.853065	99.7		7629	5259
67	13C12-BDE-100		4264261.7...	2163979	2100283	1.03	NO	12.14	0.80	12.11	12.17	51.129671	102.3		3581	5131
68	13C12-BDE-99		2645128.0...	1347431	1297697	1.04	NO	12.64	0.84	12.60	12.67	51.491168	103.0		3581	5131
69	13C12-BDE-126		3428884.1...	1746803	1682081	1.04	NO	13.71	0.91	13.67	13.74	53.190678	106.4		3581	5131
70	13C12-BDE-154		2698677.7...	1558204	1140474	1.37	NO	14.08	0.93	14.05	14.11	52.417728	104.8		3516	1573
71	13C12-BDE-153		1454188.6...	842442	611747	1.38	NO	14.82	0.98	14.79	14.85	51.480578	103.0		4946	3847
72	13C12-BDE-183		1314808.1...	672466	642342	1.05	NO	16.96	0.95	16.92	16.99	52.475415	105.0		2390	3094
73	13C12-BDE-197		2222235.3...	998346	1223889	0.82	NO	19.43	1.09	19.40	19.46	104.04616	104.0		3535	2288
74	13C12-BDE-207		8775066.5...	4446759	4328308	1.03	NO	21.27	0.99	21.24	21.31	255.16268	102.1		10183	12042

Quantify Sample Summary Report **MassLynx MassLynx V4.1 SCN 901**

Dataset: I:\Organics Instrument\HIGHRES GCMS Completed Results Files\HR-9\2109\9-210930B-PBDE-ICAL.qld

Last Altered: Friday, October 01, 2021 09:18:22 Eastern Daylight Time
Printed: Thursday, November 18, 2021 10:17:57 Eastern Standard Time

Name: 9-210930B06, Date: 30-Sep-2021, Time: 19:20:36, ID: H9-21-CS#4-009, Description: PBDEX-CS#4-002, Vial: Tray1:45

	Target Analyte	#Hom	Total Area	Ion1 Area	Ion2 Area	Ra	Ra Fail=YES	RT	RRT	RT LCL	RT UCL	Conc.	%Rec	Mod.Comment	Noise 1	Noise 2
75	13C12-BDE-209		3146871.0...	1783893	1362978	1.31	NO	23.22	1.08	23.18	23.25	249.91839	100.0		7991	9035
76	13C14-DBDPE		3940735.3...	2016693	1924042	1.05	NO	24.62	1.14	24.59	24.65	491.04856	98.2		3366	5089
77	13C12-BDE-138 (CL)		1332348.6...	769914	562435	1.37	NO	15.78	1.05	15.74	15.81	52.284645	104.6		4946	3847
78	13C12-BDE-79 (IS)		4730629.1...	2881967	1848662	1.56	NO	10.66	0.71	10.63	10.70	50.786964	101.6		7629	5259
79	13C12-BDE-139 (IS)		1626106.9...	939182	686925	1.37	NO	15.09	0.00	15.05	15.12	49.397403	98.8		4946	3847
80	13C12-BDE-180 (IS)		691544.032	348715	342829	1.02	NO	17.82	1.18	17.79	17.86	50.178000	100.4		2390	3094
81	13C12-BDE-206 (IS)		6826892.2...	3438929	3387963	1.01	NO	21.54	1.43	21.51	21.58	278.95103	111.6		10183	12042
82	Total MoF1	3		19556500								242.24307			74478	
83	Total DiF2	5		21287555								568.23103			6637	
84	Total TriF3	6		25693758								639.81085			7872	
85	Total PBEBF3	1		2512257								81.035456			2133	
86	Total TePBBF3	1		2804108								80.875306			2348	
87	Total HBBF4	1		1201537								80.584336			1856	
88	Total TetraF4	8		17936612								640.90106			6807	
89	Total PePBBF4	1		5008796								160.97863			4275	
90	Total PentaF5	9		25629590								1223.8779			14577	
91	Total PBB-153	1		4285421								159.52643			2761	
92	Total HexaF5	2		10263186								324.07785			2414	
93	Total HexaF6	5		13978064								1003.0771			9781	
94	Total HeptaF6	5		9736243								1027.0121			3176	
95	Total PBB-180	1		1855075								165.16818			3026	
96	Total OctaF7	3		4334056								636.18975			5272	
97	Total PBB-194	1		1148833								182.13828			1885	
98	Total NonaF8	3		19456854								1241.4013			23215	
99	Total PBB-206	1		2110840								399.82325			14712	
100	Total PBB-209	1		2299726								412.74171			8185	
101	Total DecaF9	1		2726513								396.28310			3623	
102	Total DBDPEF10															
103	Total 13CMoF1	1		5507223								48.918247			4270	
104	Total 13CDiF2	1		2587924								49.270799			7024	
105	Total 13CTriF3	1		2284645								49.412599			5012	
106	Total 13CHBBF4	1		1731322								48.184641			3211	
107	Total 13CTetraF4	3		8164715								150.53420			7629	
108	Total 13CPentaF5	3		5258213								155.81152			3581	
109	Total 13CHexaF5	1		1558204								52.417728			3516	
110	Total 13CHexaF6	3		2551537								153.16263			4946	
111	Total 13CHeptaF6	2		1021181								102.65341			2390	

Quantify Sample Summary Report **MassLynx MassLynx V4.1 SCN 901**

Dataset: I:\Organics Instrument\HIGHRES GCMS Completed Results Files\HR-9\2109\9-210930B-PBDE-ICAL.qld

Last Altered: Friday, October 01, 2021 09:18:22 Eastern Daylight Time
Printed: Thursday, November 18, 2021 10:17:57 Eastern Standard Time

Name: 9-210930B06, Date: 30-Sep-2021, Time: 19:20:36, ID: H9-21-CS#4-009, Description: PBDEX-CS#4-002, Vial: Tray1:45

	Target Analyte	#Hom	Total Area	Ion1 Area	Ion2 Area	Ra	Ra Fail=YES	RT	RRT	RT LCL	RT UCL	Conc.	%Rec	Mod.Comment	Noise 1	Noise 2
112	Total 13COctaF7	1		998346								104.04616			3535	
113	Total 13CNonaF8	2		7885688								534.11371			10183	
114	Total 13CDecaF9	1		1783893								249.91839			7991	
115	Total 13CDBDPEF10															
116	Lockmass F1			0											621632	
117	Lockmass F2			0											1488144	
118	Lockmass F3			0											998479	
119	Lockmass F4			0											253246	
120	Lockmass F5			0											139605	
121	Lockmass F6			0											84472	
122	Lockmass F7			0											36225	
123	Lockmass F8			0											68795	
124	Lockmass F9			0											89594	
125	Lockmass F10															

Quantify Sample Summary Report **MassLynx MassLynx V4.1 SCN 901**

Dataset: I:\Organics Instrument\HIGHRES GCMS Completed Results Files\HR-9\2109\9-210930B-PBDE-ICAL.qld

Last Altered: Friday, October 01, 2021 09:18:22 Eastern Daylight Time
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Name: 9-210930B05, Date: 30-Sep-2021, Time: 18:44:07, ID: H9-21-CS#5-009, Description: PBDEX-CS#5-002, Vial: Tray1:44

	Target Analyte	#Hom	Total Area	Ion1 Area	Ion2 Area	Ra	Ra Fail=YES	RT	RRT	RT LCL	RT UCL	Conc.	%Rec	Mod.Comment	Noise 1	Noise 2
1	*BDE-1		31041190....	15751090	15290100	1.03	NO	4.84	0.96	4.81	4.88	238.67946	99.4		92515	110558
2	BDE-2		40328840....	19833056	20495784	0.97	NO	4.95	0.98	4.92	4.98	204.22742	85.1		92515	110558
3	BDE-3		44552430....	22642242	21910188	1.03	NO	5.05	1.00	5.02	5.09	196.60675	81.9		92515	110558
4	*BDE-10		20707925....	7011426	13696499	0.51	NO	6.27	0.89	6.23	6.30	235.33365	98.1		5232	7897
5	BDE-7		22624693....	7621718	15002976	0.51	NO	6.64	0.94	6.61	6.67	238.74898	99.5		5232	7897
6	BDE-8/BDE-11		63102968....	22249580	40853388	0.54	NO	6.81	0.96	6.77	6.84	471.90155	98.3		5232	7897
7	BDE-12/BDE-13		67577426....	26281374	41296052	0.64	YES	6.93	0.98	6.89	6.96	444.10519	92.5		5232	7897
8	BDE-15		39904252....	15413292	24490960	0.63	YES	7.07	1.00	7.04	7.11	220.38923	91.8		5232	7897
9	*BDE-30		18176652....	9065873	9110779	1.00	NO	7.77	0.90	7.74	7.80	236.54546	98.6		5693	9140
10	BDE-32		25511289....	12743255	12768034	1.00	NO	8.22	0.95	8.18	8.25	237.87625	99.1		5693	9140
11	BDE-17/BDE-25		41718982....	21009396	20709586	1.01	NO	8.38	0.97	8.35	8.42	487.69361	101.6		5693	9140
12	BDE-28/BDE-33		43114692....	21651044	21463648	1.01	NO	8.62	1.00	8.58	8.65	489.50865	102.0		5693	9140
13	BDE-35		32717977....	16517239	16200738	1.02	NO	8.77	1.02	8.74	8.80	249.75630	104.1		5693	9140
14	BDE-37		33068377....	16675236	16393141	1.02	NO	8.96	1.04	8.93	8.99	252.71100	105.3		5693	9140
15	*PBEB		19663515....	9893148	9770367	1.01	NO	8.97	0.90	8.94	9.00	244.39390	101.8		2205	4323
16	*PBB-52		17673627....	10667158	7006469	1.52	NO	9.07	0.91	9.04	9.10	235.33070	98.1		2264	1974
17	*HBB		16271769....	4671396	11600374	0.40	NO	9.95	1.00	9.92	9.99	240.28691	100.1		1946	1843
18	*BDE-75		20018476....	8184346	11834131	0.69	NO	10.02	0.95	9.98	10.05	242.59737	101.1		9136	5181
19	BDE-51		22405714....	9346636	13059078	0.72	NO	10.08	0.96	10.04	10.11	245.63436	102.3		9136	5181
20	BDE-49		15432595....	6512094	8920502	0.73	NO	10.18	0.97	10.14	10.21	246.42578	102.7		9136	5181
21	BDE-71		14869112....	6183551	8685561	0.71	NO	10.25	0.98	10.22	10.29	240.13477	100.1		9136	5181
22	BDE-47		22721981....	9151258	13570723	0.67	NO	10.51	1.00	10.48	10.55	243.28565	101.4		9136	5181
23	BDE-79		26731706....	10839888	15891818	0.68	NO	10.67	1.02	10.64	10.71	239.19293	99.7		9136	5181
24	BDE-66		15177398....	6144242	9033157	0.68	NO	10.80	1.03	10.77	10.83	251.98249	105.0		9136	5181
25	BDE-77		26813118....	10850787	15962331	0.68	NO	11.27	1.00	11.24	11.30	247.18832	103.0		9136	5181
26	*PBB-101		37475002....	18921814	18553188	1.02	NO	11.42	1.01	11.39	11.45	497.80897	103.7		1406	2584
27	*BDE-100		33290892....	16821808	16469084	1.02	NO	12.15	1.00	12.12	12.19	370.45467	102.9		1	1
28	BDE-119/BDE-120		34474522....	17438344	17036178	1.02	NO	12.33	1.01	12.29	12.36	734.68211	102.0		1	1
29	BDE-99		22980235....	11605580	11374655	1.02	NO	12.66	1.00	12.63	12.70	371.56955	103.2		1	1
30	BDE-116		11495746....	5819085	5676662	1.03	NO	12.81	1.01	12.78	12.85	391.67107	108.8		1	1
31	BDE-83		13074134....	6553850	6520285	1.01	NO	12.95	1.02	12.92	12.98	363.86302	101.1		1	1
32	BDE-118		16086895....	8137677	7949219	1.02	NO	13.06	1.03	13.03	13.09	383.29808	106.5		1	1
33	BDE-85		19002256....	9585582	9416674	1.02	NO	13.56	0.99	13.52	13.59	394.58681	109.6		1	1
34	BDE-126		31079914....	15725591	15354323	1.02	NO	13.72	1.00	13.69	13.75	362.77932	100.8		1	1
35	BDE-105		16878788....	8575835	8302954	1.03	NO	13.88	1.01	13.85	13.91	409.54441	113.8		1	1
36	*PBB-153		29830485....	17187702	12642783	1.36	NO	14.05	1.00	14.02	14.09	495.24425	103.2		1194	1850
37	*BDE-155		36626847....	21124292	15502555	1.36	NO	13.72	0.97	13.69	13.75	483.64391	100.8		2995	1156

Quantify Sample Summary Report **MassLynx MassLynx V4.1 SCN 901**

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Name: 9-210930B05, Date: 30-Sep-2021, Time: 18:44:07, ID: H9-21-CS#5-009, Description: PBDEX-CS#5-002, Vial: Tray1:44

	Target Analyte	#Hom	Total Area	Ion1 Area	Ion2 Area	Ra	Ra Fail=YES	RT	RRT	RT LCL	RT UCL	Conc.	%Rec	Mod.Comment	Noise 1	Noise 2
38	BDE-154		31720914....	18271144	13449770	1.36	NO	14.10	1.00	14.07	14.14	485.03334	101.0		2995	1156
39	*BDE-153		20354674....	11745019	8609655	1.36	NO	14.83	1.00	14.80	14.86	497.46147	103.6		15386	13396
40	BDE-140		25043673....	14423893	10619780	1.36	NO	15.29	1.01	15.25	15.32	515.42618	107.4		15386	13396
41	BDE-138/BDE-166		31340572....	18156960	13183612	1.38	NO	15.79	1.06	15.76	15.82	1114.8272	116.1	ES211001MJ	15386	13396
42	BDE-156		12983674....	7488212	5495463	1.36	NO	16.16	1.09	16.13	16.20	623.25756	129.8		15386	13396
43	BDE-128		14088432....	8122003	5966430	1.36	NO	16.78	0.99	16.75	16.82	602.00560	125.4		15386	13396
44	*BDE-184		28466982....	14415577	14051405	1.03	NO	16.60	0.98	16.56	16.63	622.58257	103.8		3632	8190
45	BDE-183		19213727....	9722179	9491548	1.02	NO	16.97	1.00	16.94	17.00	622.40937	103.7		3632	8190
46	BDE-191		14694059....	7438944	7255116	1.03	NO	17.53	1.03	17.50	17.56	703.02048	117.2		3632	8190
47	BDE-181		15109794....	7620057	7489738	1.02	NO	18.07	1.01	18.04	18.10	723.37980	120.6		3632	8190
48	BDE-190		11092652....	5613508	5479145	1.02	NO	18.23	1.02	18.20	18.27	769.65754	128.3		3632	8190
49	*PBB-180		16231156....	8216223	8014933	1.03	NO	17.08	0.96	17.04	17.11	519.28122	108.2		3882	3849
50	*BDE-197		16235620....	7277281	8958339	0.81	NO	19.44	1.00	19.41	19.48	634.02265	105.7		7514	9415
51	BDE-203		13710966....	6133080	7577887	0.81	NO	19.71	1.01	19.67	19.74	743.01114	123.8		7514	9415
52	BDE-196		16341103....	7348890	8992213	0.82	NO	19.83	1.02	19.80	19.87	790.96502	131.8		7514	9415
53	*PBB-194		10094357....	5658422	4435935	1.28	NO	19.91	1.02	19.88	19.94	629.75070	131.2		3576	5342
54	*BDE-208		66068012....	33302724	32765288	1.02	NO	21.15	0.99	21.12	21.19	1464.4142	122.0		27946	23645
55	BDE-207		66395238....	33386064	33009174	1.01	NO	21.28	1.00	21.25	21.32	1241.1939	103.4		27946	23645
56	BDE-206		54996306....	27984050	27012256	1.04	NO	21.55	1.01	21.52	21.59	1271.6225	106.0		27946	23645
57	*PBB-206		21061236....	10522489	10538747	1.00	NO	21.00	0.99	20.97	21.03	1298.5760	108.2		26530	42291
58	*PBB-209		21185608....	11809152	9376456	1.26	NO	21.91	1.03	21.87	21.94	1377.6817	114.8		24336	19566
59	*BDE-209		28632838....	16005575	12627263	1.27	NO	23.23	1.00	23.20	23.27	1258.1393	104.8		8777	9760
60	*DBDPE		41424082....	21001382	20422700	1.03	NO	24.66	1.00	24.63	24.69	2599.1261	108.3		3965	3942
61	13C12-BDE-3		12687899....	6428569	6259331	1.03	NO	5.04	0.47	5.01	5.08	47.827651	95.7		3217	6459
62	13C12-BDE-15		9336787.0...	3176110	6160677	0.52	NO	7.07	0.66	7.03	7.10	50.456005	100.9		6113	16876
63	13C12-BDE-28		5566874.7...	2827111	2739764	1.03	NO	8.62	0.81	8.58	8.65	51.438698	102.9		4653	5264
64	13C6-HBB		3160680.3...	2275587	885094	2.57	NO	9.95	0.93	9.92	9.99	53.033214	106.1		2630	2275
65	13C12-BDE-47		4769732.0...	2906334	1863398	1.56	NO	10.50	0.98	10.47	10.53	50.047506	100.1		4489	4669
66	13C12-BDE-77		5788292.0...	3516803	2271489	1.55	NO	11.27	1.06	11.24	11.30	51.591599	103.2		4489	4669
67	13C12-BDE-100		5201468.0...	2641028	2560440	1.03	NO	12.15	0.81	12.12	12.19	52.182396	104.4		5081	5614
68	13C12-BDE-99		3303479.7...	1678400	1625079	1.03	NO	12.65	0.84	12.62	12.68	53.805497	107.6		5081	5614
69	13C12-BDE-126		4631346.5...	2362618	2268729	1.04	NO	13.72	0.91	13.69	13.75	60.111690	120.2		5081	5614
70	13C12-BDE-154		3426805.3...	1975113	1451692	1.36	NO	14.09	0.93	14.06	14.13	55.691068	111.4		2520	1562
71	13C12-BDE-153		1940001.8...	1118344	821658	1.36	NO	14.83	0.98	14.80	14.86	57.463722	114.9		6248	3099
72	13C12-BDE-183		1853256.6...	939134	914122	1.03	NO	16.96	0.95	16.92	16.99	54.659008	109.3		2525	1796
73	13C12-BDE-197		3141118.750	1408251	1732867	0.81	NO	19.43	1.09	19.40	19.46	108.68086	108.7		5356	1588
74	13C12-BDE-207		13385343....	6774431	6610913	1.02	NO	21.27	0.99	21.24	21.31	245.69082	98.3		10108	9728

Quantify Sample Summary Report **MassLynx MassLynx V4.1 SCN 901**

Dataset: I:\Organics Instrument\HIGHRES GCMS Completed Results Files\HR-9\2109\9-210930B-PBDE-ICAL.qld

Last Altered: Friday, October 01, 2021 09:18:22 Eastern Daylight Time
Printed: Thursday, November 18, 2021 10:17:57 Eastern Standard Time

Name: 9-210930B05, Date: 30-Sep-2021, Time: 18:44:07, ID: H9-21-CS#5-009, Description: PBDEX-CS#5-002, Vial: Tray1:44

	Target Analyte	#Hom	Total Area	Ion1 Area	Ion2 Area	Ra	Ra Fail=YES	RT	RRT	RT LCL	RT UCL	Conc.	%Rec	Mod.Comment	Noise 1	Noise 2
75	13C12-BDE-209		5788550.0...	3244079	2544472	1.27	NO	23.23	1.08	23.19	23.26	290.18954	116.1		6742	11953
76	13C14-DBDPE		8175506.7...	4184644	3990863	1.05	NO	24.65	1.14	24.62	24.68	643.06451	128.6		3977	4976
77	13C12-BDE-138 (CL)		1822327.3...	1055347	766980	1.38	NO	15.78	1.05	15.74	15.81	59.834495	119.7		6248	3099
78	13C12-BDE-79 (IS)		5639070.0...	3420307	2218764	1.54	NO	10.66	0.71	10.63	10.70	60.539780	121.1		4489	4669
79	13C12-BDE-139 (IS)		1943480.3...	1121965	821515	1.37	NO	15.09	0.00	15.05	15.12	59.038481	118.1		6248	3099
80	13C12-BDE-180 (IS)		935808.906	471439	464370	1.02	NO	17.82	1.18	17.79	17.86	67.901705	135.8		2525	1796
81	13C12-BDE-206 (IS)		10815095....	5482042	5333054	1.03	NO	21.54	1.43	21.51	21.58	441.91148	176.8		10108	9728
82	Total MoF1	3		58226388								639.51363			92515	
83	Total DiF2	5		78577390								1610.4786			5232	
84	Total TriF3	6		97662043								1954.0913			5693	
85	Total PBEBF3	1		9893148								244.39390			2205	
86	Total TePBBF3	1		10667158								235.33070			2264	
87	Total HBBF4	1		4671396								240.28691			1946	
88	Total TetraF4	8		67212801								1956.4417			9136	
89	Total PePBBF4	1		18921814								497.80897			1406	
90	Total PentaF5	9		100263351								3782.4491			1	
91	Total PBB-153	1		17187702								495.24425			1194	
92	Total HexaF5	2		39395436								968.67725			2995	
93	Total HexaF6	5		59936086								3352.9780			15386	
94	Total HeptaF6	5		44810264								3441.0498			3632	
95	Total PBB-180	1		8216223								519.28122			3882	
96	Total OctaF7	3		20759251								2167.9988			7514	
97	Total PBB-194	1		5658422								629.75070			3576	
98	Total NonaF8	3		94672838								3977.2307			27946	
99	Total PBB-206	1		10522489								1298.5760			26530	
100	Total PBB-209	1		11809152								1377.6817			24336	
101	Total DecaF9	1		16005575								1258.1393			8777	
102	Total DBDPEF10															
103	Total 13CMoF1	1		6428569								47.827651			3217	
104	Total 13CDiF2	1		3176110								50.456005			6113	
105	Total 13CTriF3	1		2827111								51.438698			4653	
106	Total 13CHBBF4	1		2275587								53.033214			2630	
107	Total 13CTetraF4	3		9843443								162.17889			4489	
108	Total 13CPentaF5	3		6682047								166.09958			5081	
109	Total 13CHexaF5	1		1975113								55.691068			2520	
110	Total 13CHexaF6	3		3295656								176.33670			6248	
111	Total 13CHeptaF6	2		1410573								122.56071			2525	

Quantify Sample Summary Report **MassLynx MassLynx V4.1 SCN 901**

Dataset: I:\Organics Instrument\HIGHRES GCMS Completed Results Files\HR-9\2109\9-210930B-PBDE-ICAL.qld

Last Altered: Friday, October 01, 2021 09:18:22 Eastern Daylight Time
Printed: Thursday, November 18, 2021 10:17:57 Eastern Standard Time

Name: 9-210930B05, Date: 30-Sep-2021, Time: 18:44:07, ID: H9-21-CS#5-009, Description: PBDEX-CS#5-002, Vial: Tray1:44

	Target Analyte	#Hom	Total Area	Ion1 Area	Ion2 Area	Ra	Ra Fail=YES	RT	RRT	RT LCL	RT UCL	Conc.	%Rec	Mod.Comment	Noise 1	Noise 2
112	Total 13COctaF7	1		1408251								108.68086			5356	
113	Total 13CNonaF8	2		12256473								687.60230			10108	
114	Total 13CDecaF9	1		3244079								290.18954			6742	
115	Total 13CDBDPEF10															
116	Lockmass F1			0											712595	
117	Lockmass F2			0											1212664	
118	Lockmass F3			0											830850	
119	Lockmass F4			0											391342	
120	Lockmass F5			0											214490	
121	Lockmass F6			0											89760	
122	Lockmass F7			0											53137	
123	Lockmass F8			0											64524	
124	Lockmass F9			0											62665	
125	Lockmass F10															

Quantify Audit Report MassLynx MassLynx V4.1 SCN 901

Dataset: I:\Organics Instrument\HIGHRES GCMS Completed Results Files\HR-9\2109\9-210930B-PBDE-ICAL.qld

Last Altered: Friday, October 01, 2021 09:18:22 Eastern Daylight Time
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Date	Time	Event	Details	Comments
01-Oct-21	09:05:02	Process Extract		
01-Oct-21	09:05:02	Process Integrate		
01-Oct-21	09:05:02	Process Calibrate		
01-Oct-21	09:05:03	Process Quantify		
01-Oct-21	09:05:03	Dataset Created		
01-Oct-21	09:05:29	Method modified		
01-Oct-21	09:05:37	Process Calibrate		
01-Oct-21	09:05:37	Process Quantify		
01-Oct-21	09:05:45	Method modified		
01-Oct-21	09:05:52	Process Calibrate		
01-Oct-21	09:05:52	Process Quantify		
01-Oct-21	09:07:39	Calibration Saved	Saved to 'C:\MassLynx\PBDE.PRO\CurveDB\9-210930B-PBD...	
01-Oct-21	09:08:07	Dataset Saved	Saved to 'I:\Organics Instrument\HIGHRES GCMS Complete...	
01-Oct-21	09:08:23	Method Saved	Saved to 'C:\MassLynx\PBDE.PRO\Methods\PBDEX-DB5-1-2...	
01-Oct-21	09:08:25	Dataset Saved	Saved to 'I:\Organics Instrument\HIGHRES GCMS Complete...	
01-Oct-21	09:18:07	Pre modification peak	Sample:9-210930B06, Compound:HexaF6, RT:15.778	
01-Oct-21	09:18:07	Peak modified	Sample:9-210930B06, Compound:HexaF6, RT:15.778	ES211001MJ
01-Oct-21	09:18:07	Pre modification peak	Sample:9-210930B06, Compound:HexaF6, RT:14.538	
01-Oct-21	09:18:07	Peak modified	Sample:9-210930B06, Compound:HexaF6, RT:14.538	ES211001MJ
01-Oct-21	09:18:07	Pre modification peak	Sample:9-210930B06, Compound:HexaF6, RT:15.778	
01-Oct-21	09:18:07	Peak modified	Sample:9-210930B06, Compound:HexaF6, RT:15.778	ES211001MJ
01-Oct-21	09:18:07	Pre modification peak	Sample:9-210930B06, Compound:HexaF6, RT:15.696	
01-Oct-21	09:18:07	Peak modified	Sample:9-210930B06, Compound:HexaF6, RT:15.696	ES211001MJ
01-Oct-21	09:18:20	Pre modification peak	Sample:9-210930B05, Compound:HexaF6, RT:15.789	
01-Oct-21	09:18:20	Peak modified	Sample:9-210930B05, Compound:HexaF6, RT:15.789	ES211001MJ
01-Oct-21	09:18:20	Pre modification peak	Sample:9-210930B05, Compound:HexaF6, RT:15.707	
01-Oct-21	09:18:20	Peak modified	Sample:9-210930B05, Compound:HexaF6, RT:15.707	ES211001MJ
01-Oct-21	09:18:20	Pre modification peak	Sample:9-210930B05, Compound:HexaF6, RT:15.707	
01-Oct-21	09:18:20	Peak modified	Sample:9-210930B05, Compound:HexaF6, RT:15.707	ES211001MJ
01-Oct-21	09:18:20	Pre modification peak	Sample:9-210930B05, Compound:HexaF6, RT:15.789	
01-Oct-21	09:18:20	Peak modified	Sample:9-210930B05, Compound:HexaF6, RT:15.789	ES211001MJ
01-Oct-21	09:18:34	Calibration Saved	Saved to 'C:\MassLynx\PBDE.PRO\CurveDB\9-210930B-PBD...	
01-Oct-21	09:18:38	Dataset Saved	Saved to 'I:\Organics Instrument\HIGHRES GCMS Complete...	

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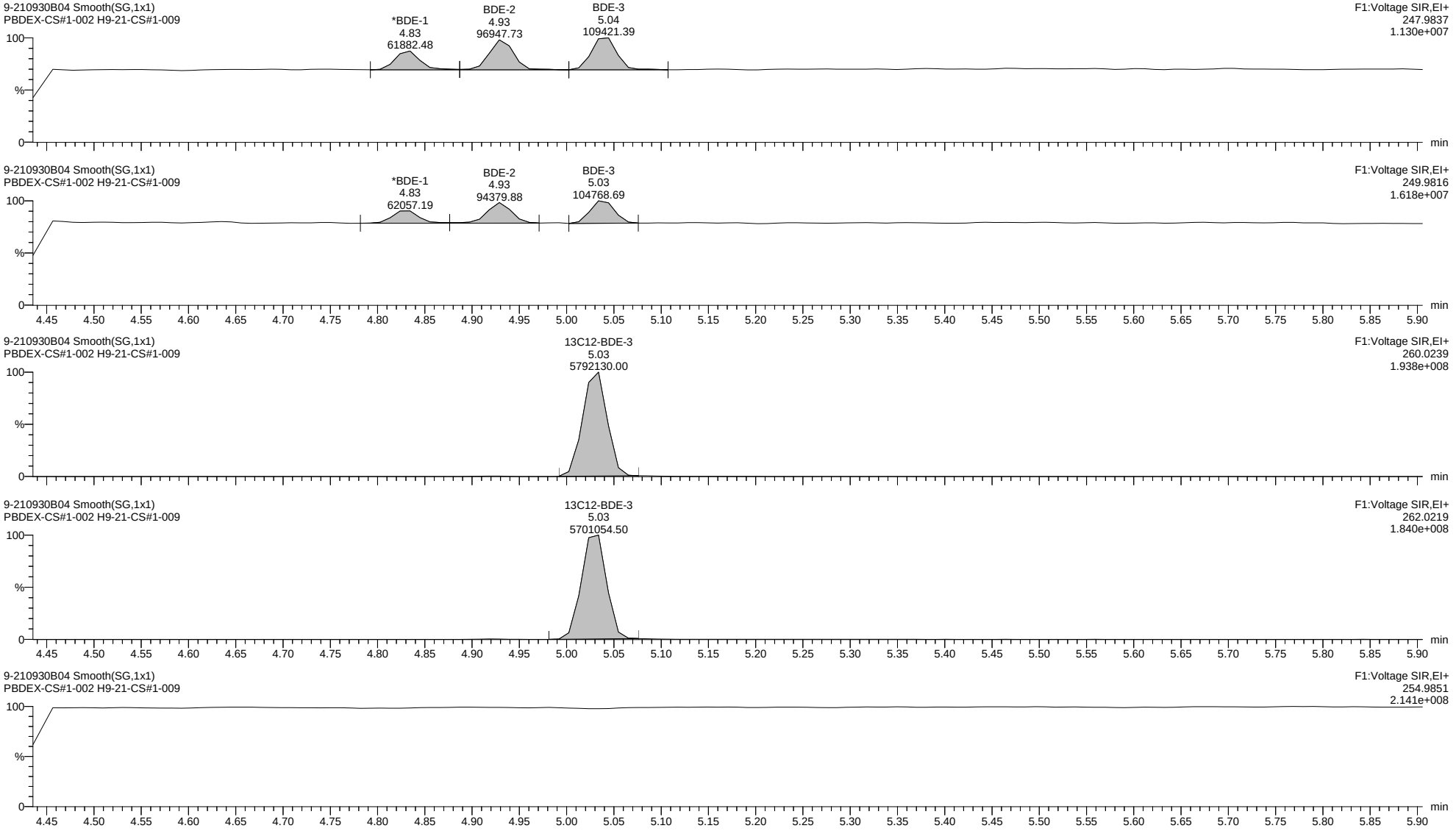
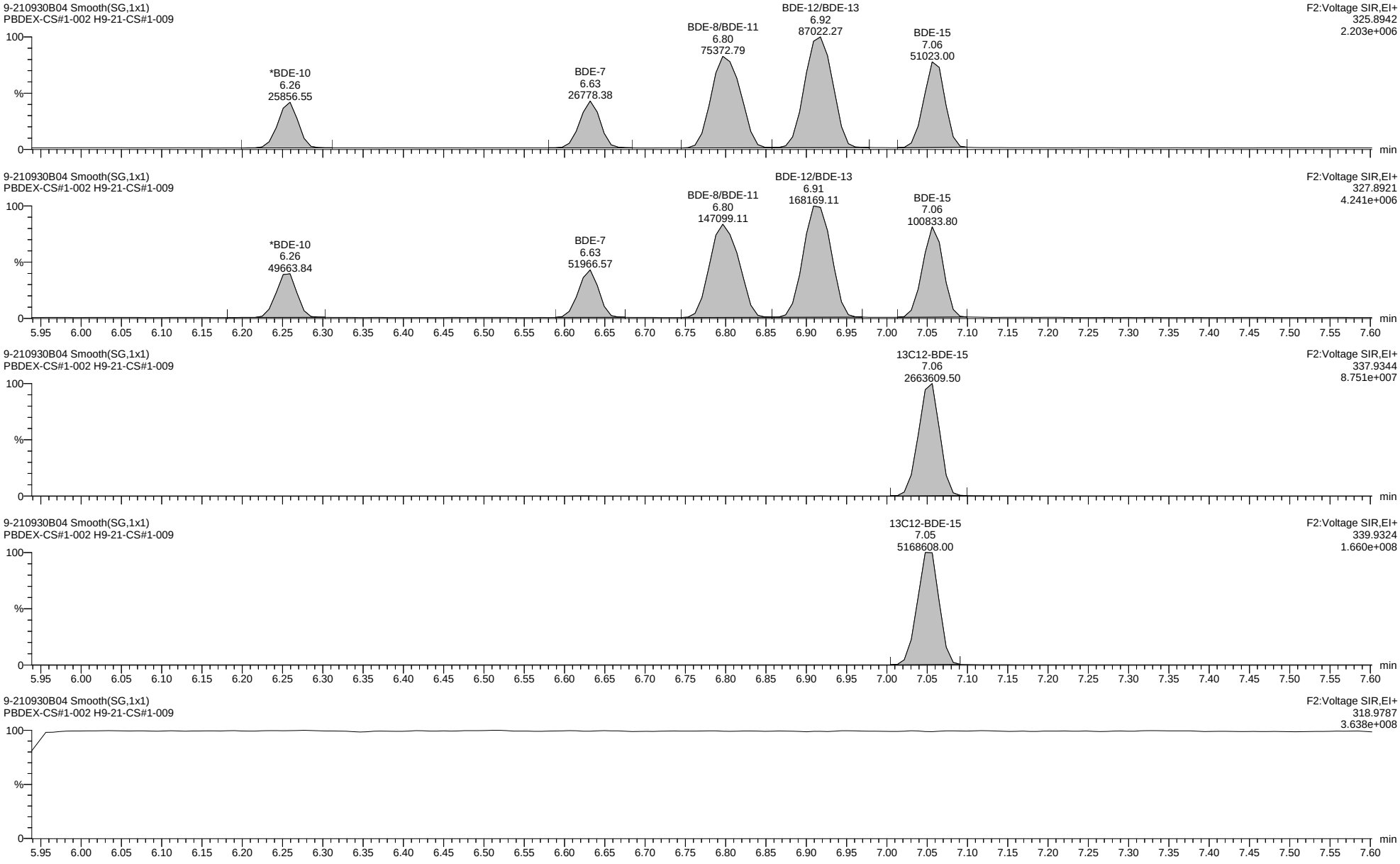
Calibration: C:\MassLynx\PBDE.PRO\CurveDB\9-210930B-PBDEX-ICAL.cdb 01 Oct 2021 10:18:22

Name: 9-210930B04, Date: 30-Sep-2021, Time: 18:07:37, ID: H9-21-CS#1-009, Description: PBDEX-CS#1-002, Vial: Tray1:43



Name: 9-210930B04, Date: 30-Sep-2021, Time: 18:07:37, ID: H9-21-CS#1-009, Description: PBDEX-CS#1-002, Vial: Tray1:43



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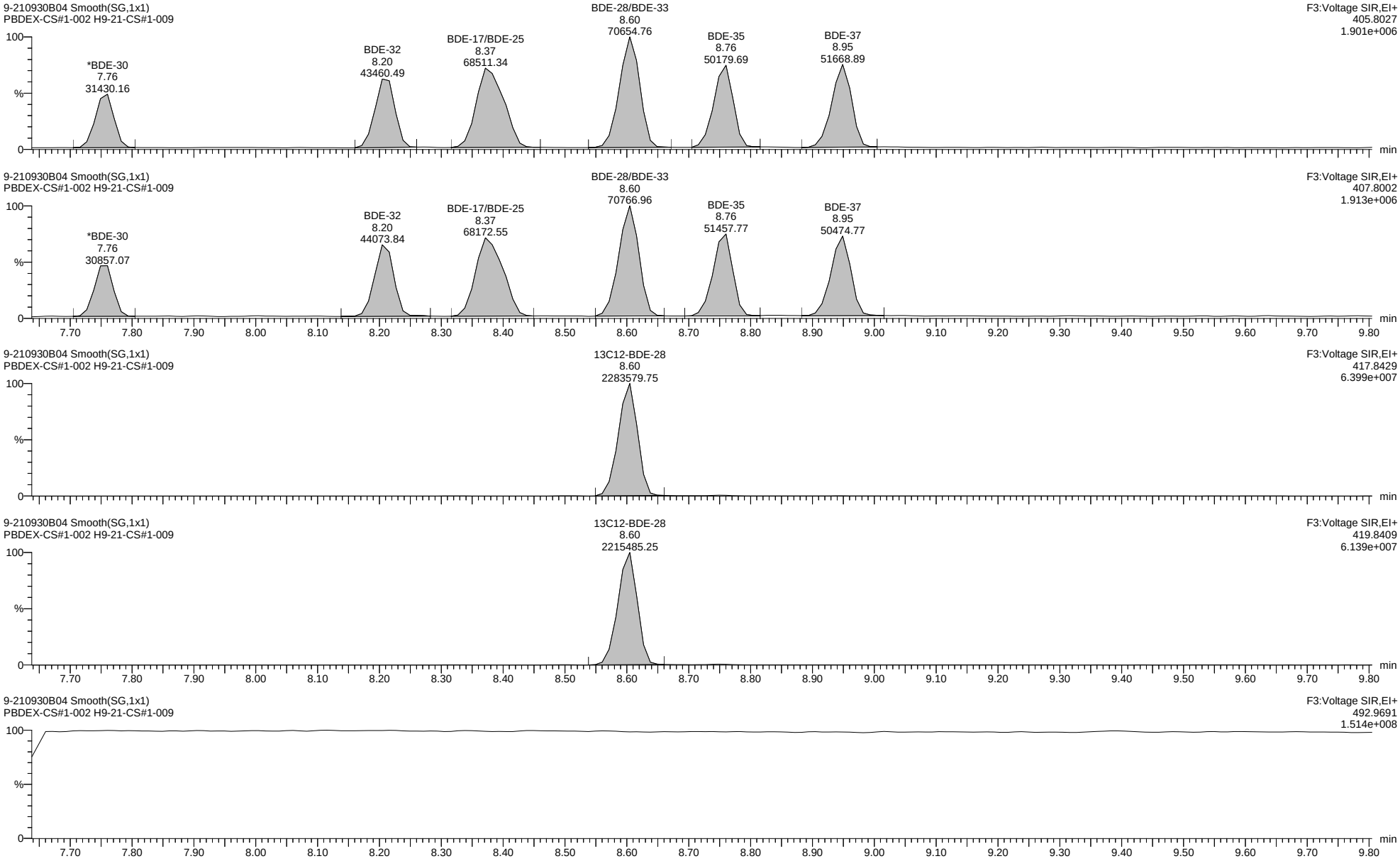

Dataset: I:\Organics Instrument\HIGHRES GCMS Completed Results Files\HR-9\2109\9-210930B-PBDE-ICAL.qld

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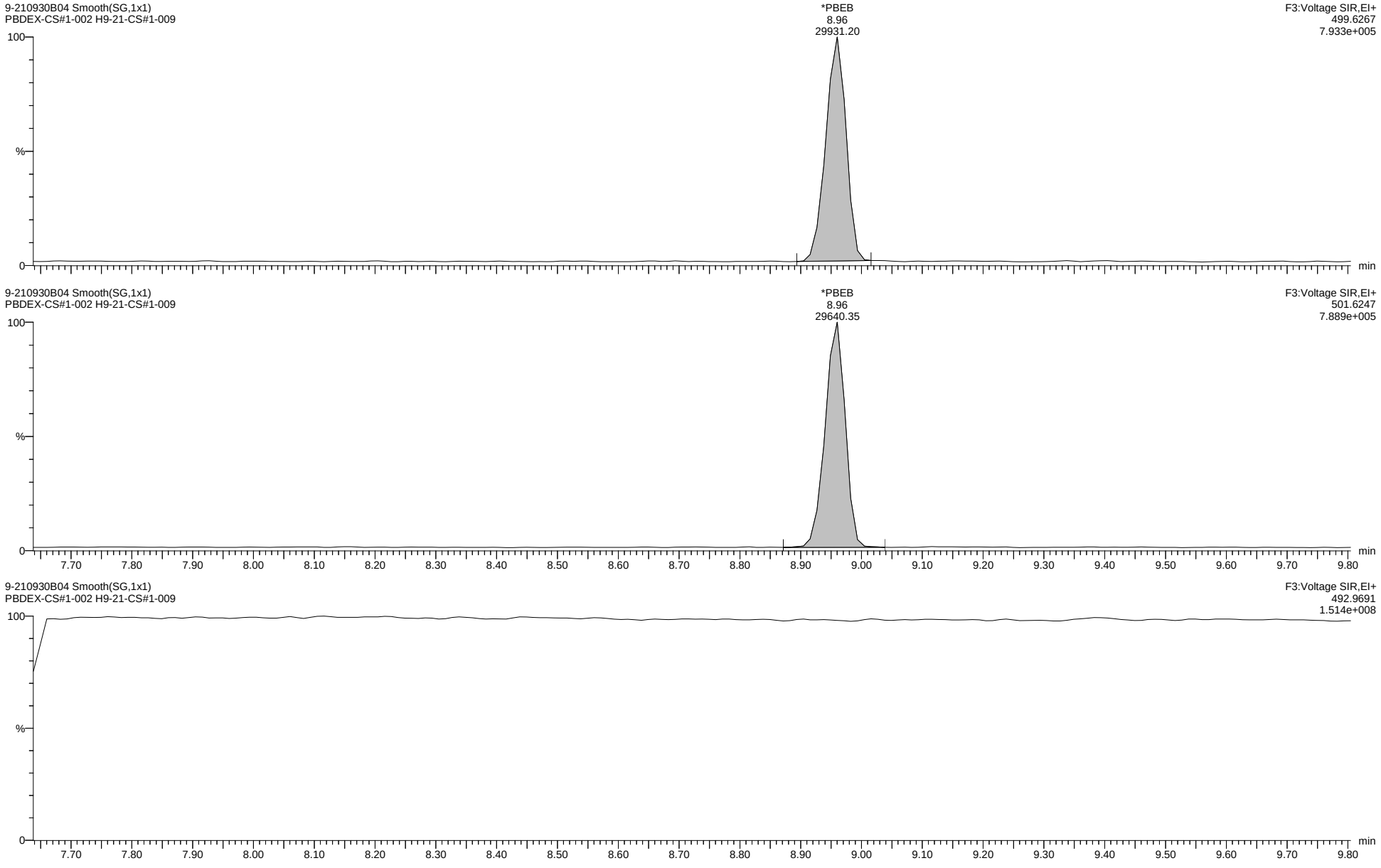

Dataset: I:\Organics Instrument\HIGHRES GCMS Completed Results Files\HR-9\2109\9-210930B-PBDE-ICAL.qld

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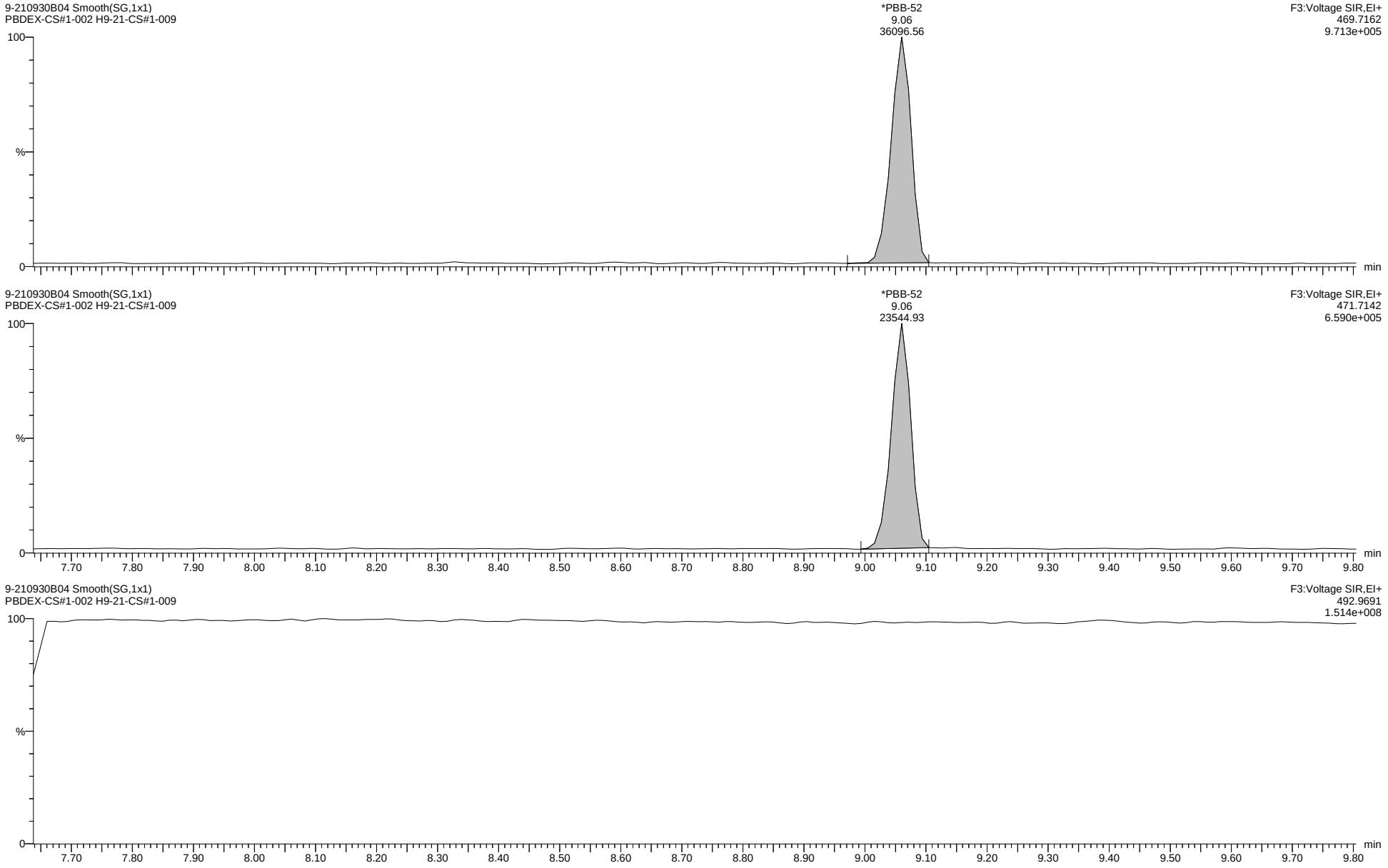

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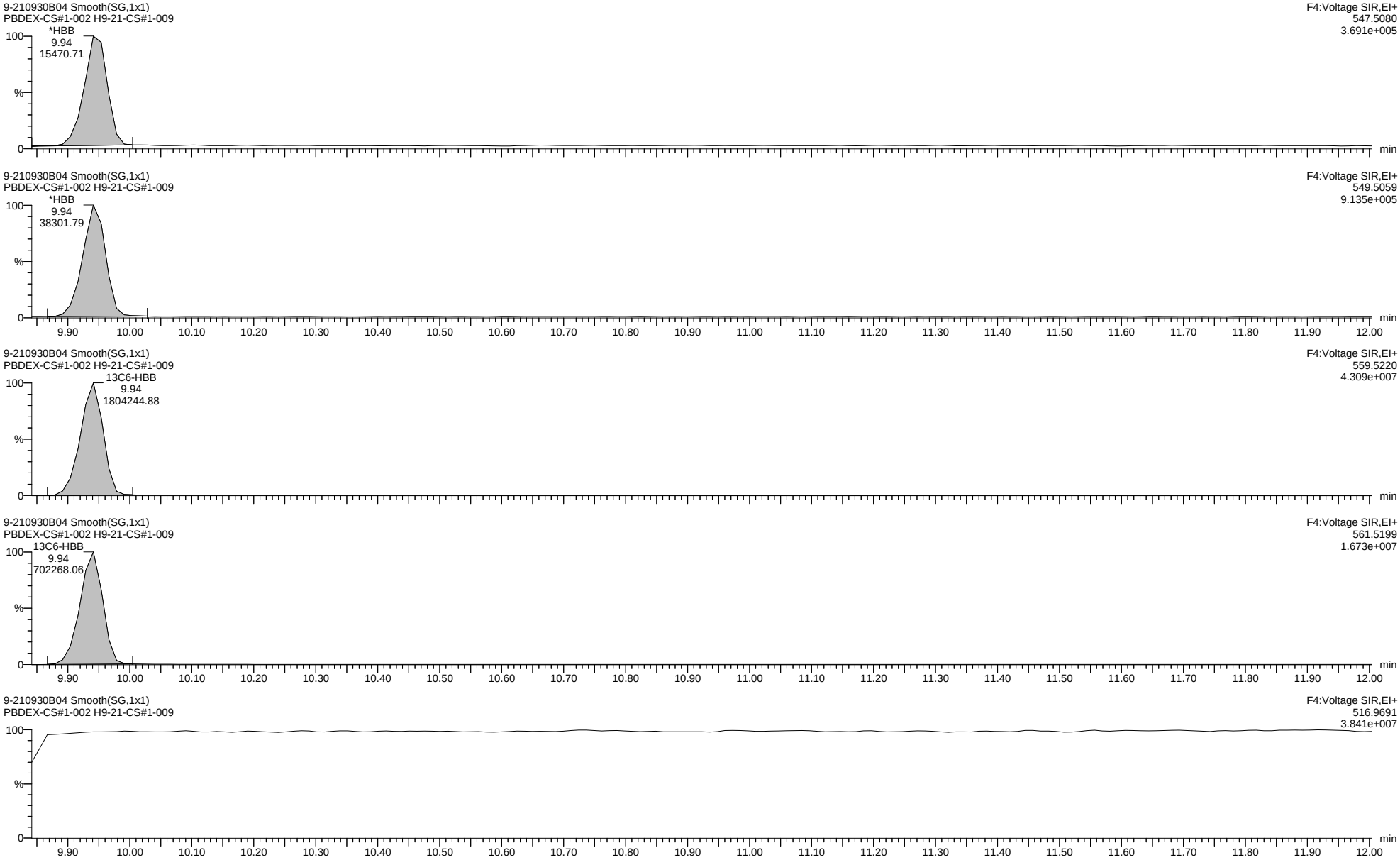
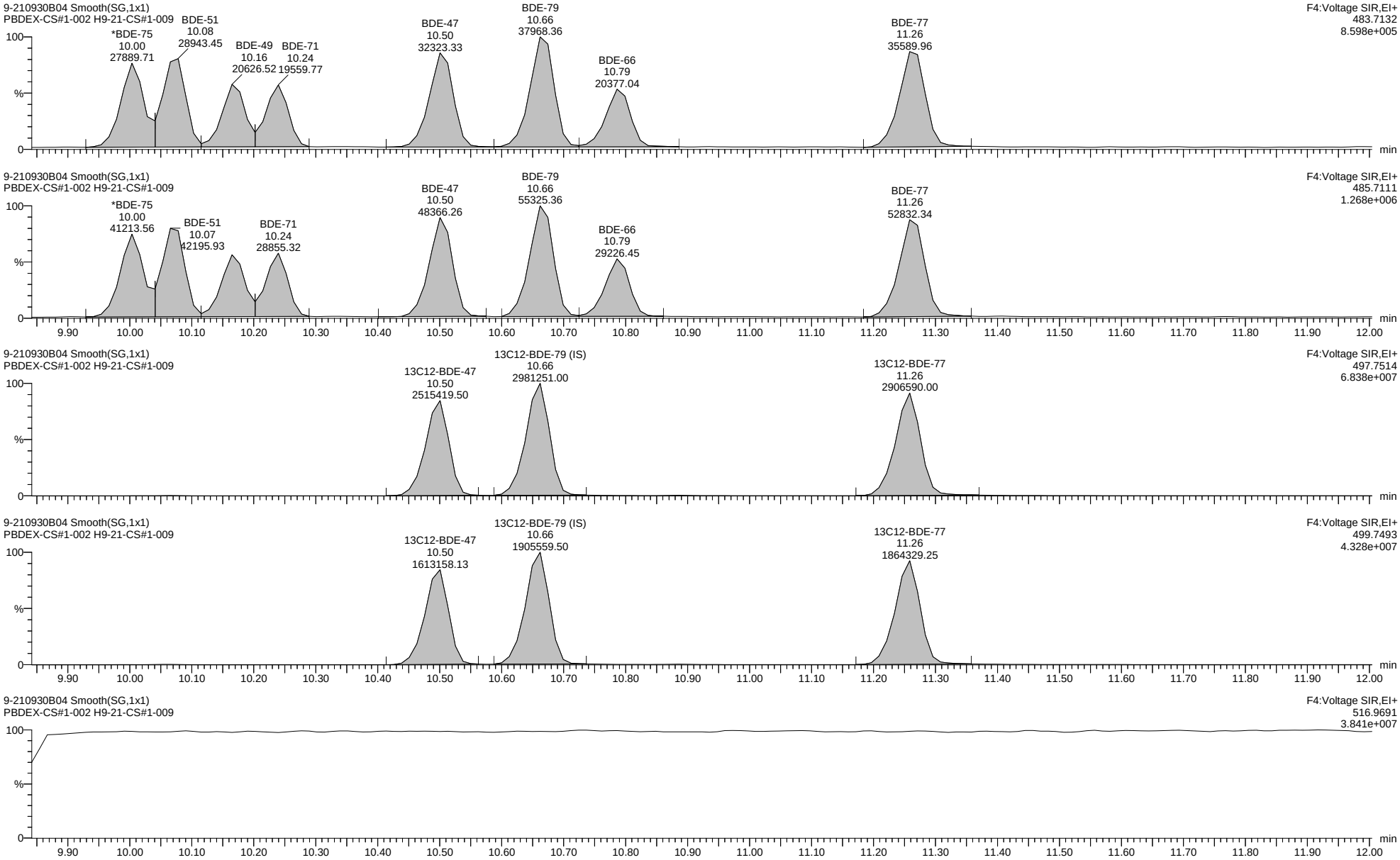


Name: 9-210930B04, Date: 30-Sep-2021, Time: 18:07:37, ID: H9-21-CS#1-009, Description: PBDEX-CS#1-002, Vial: Tray1:43



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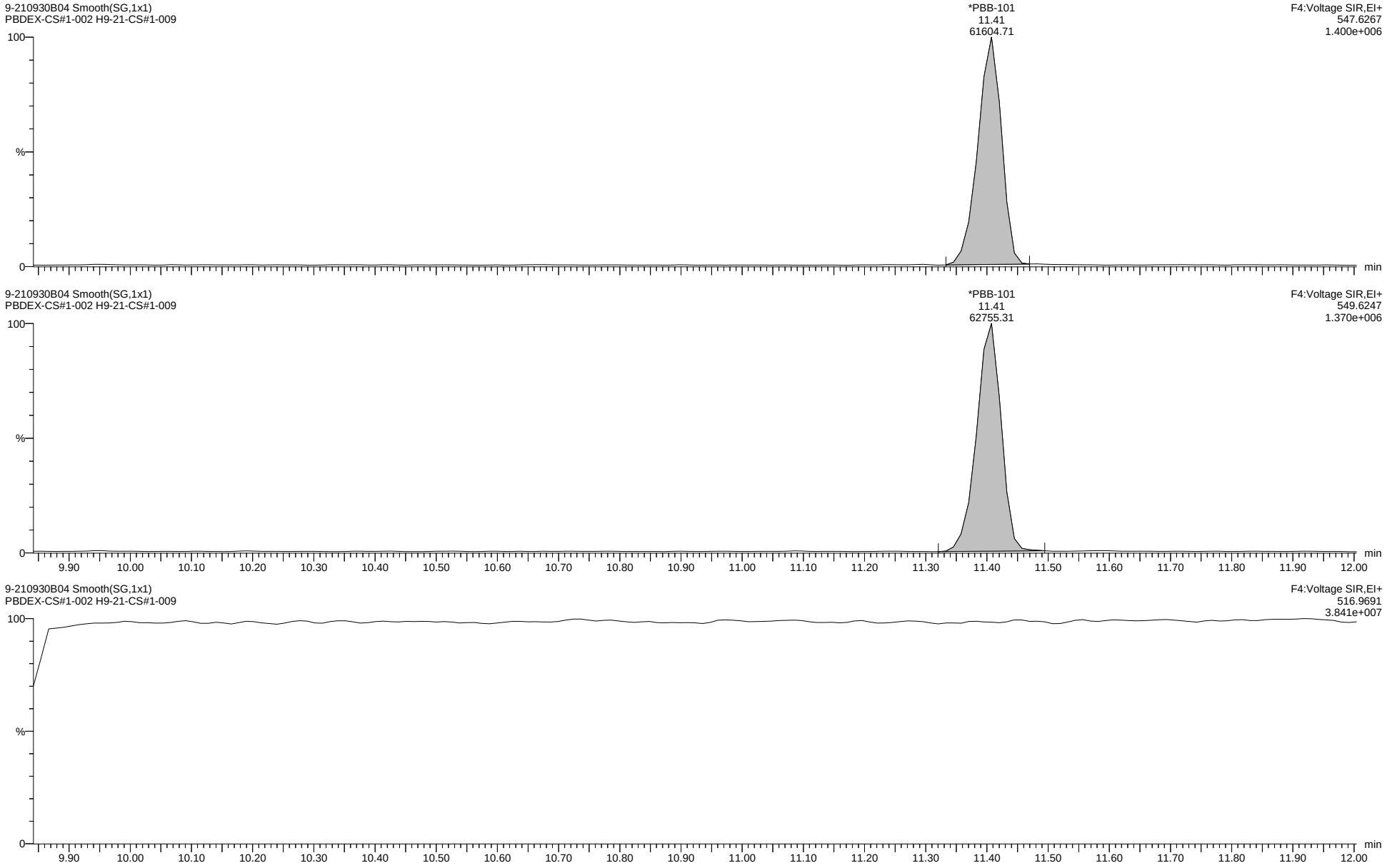

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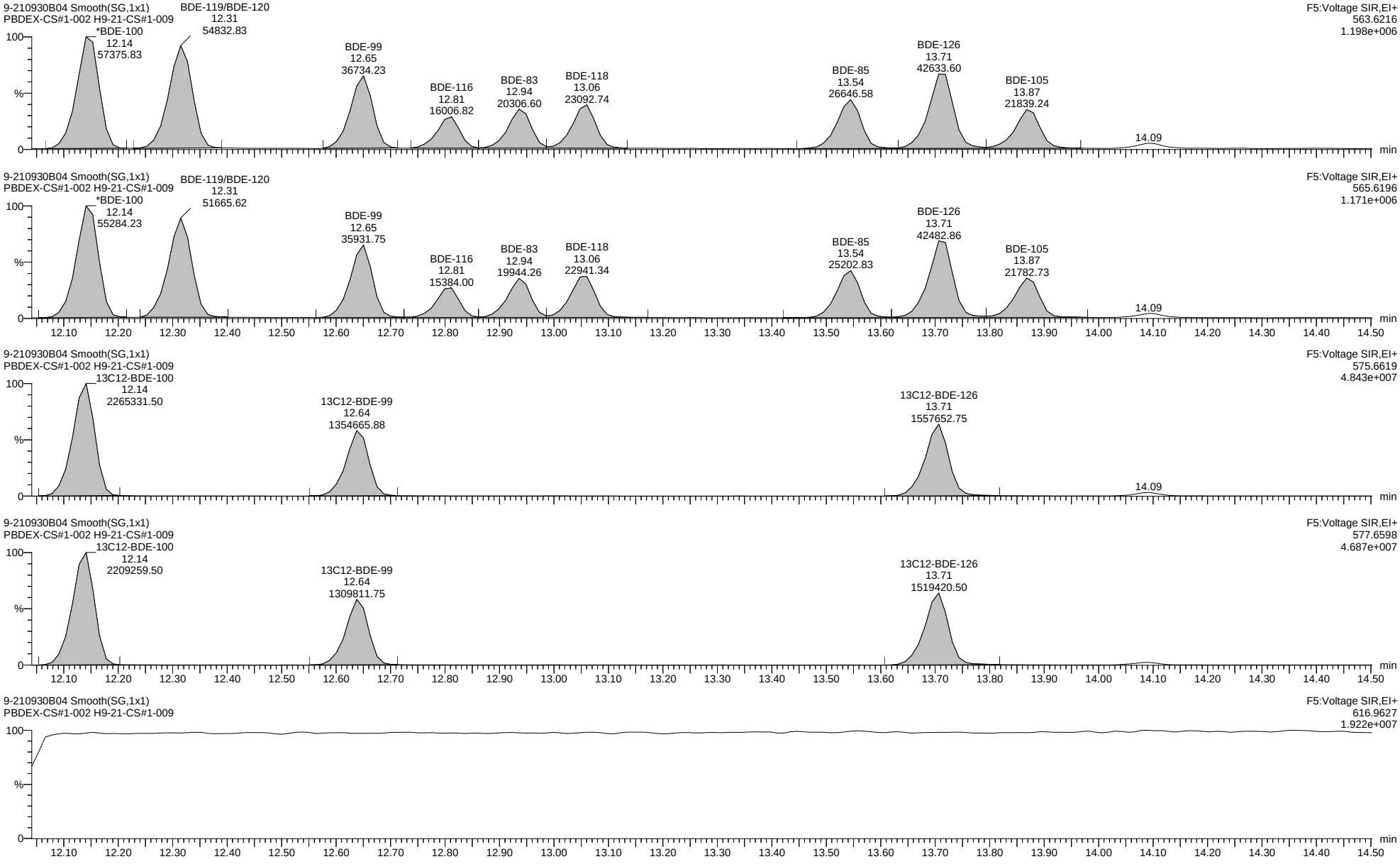

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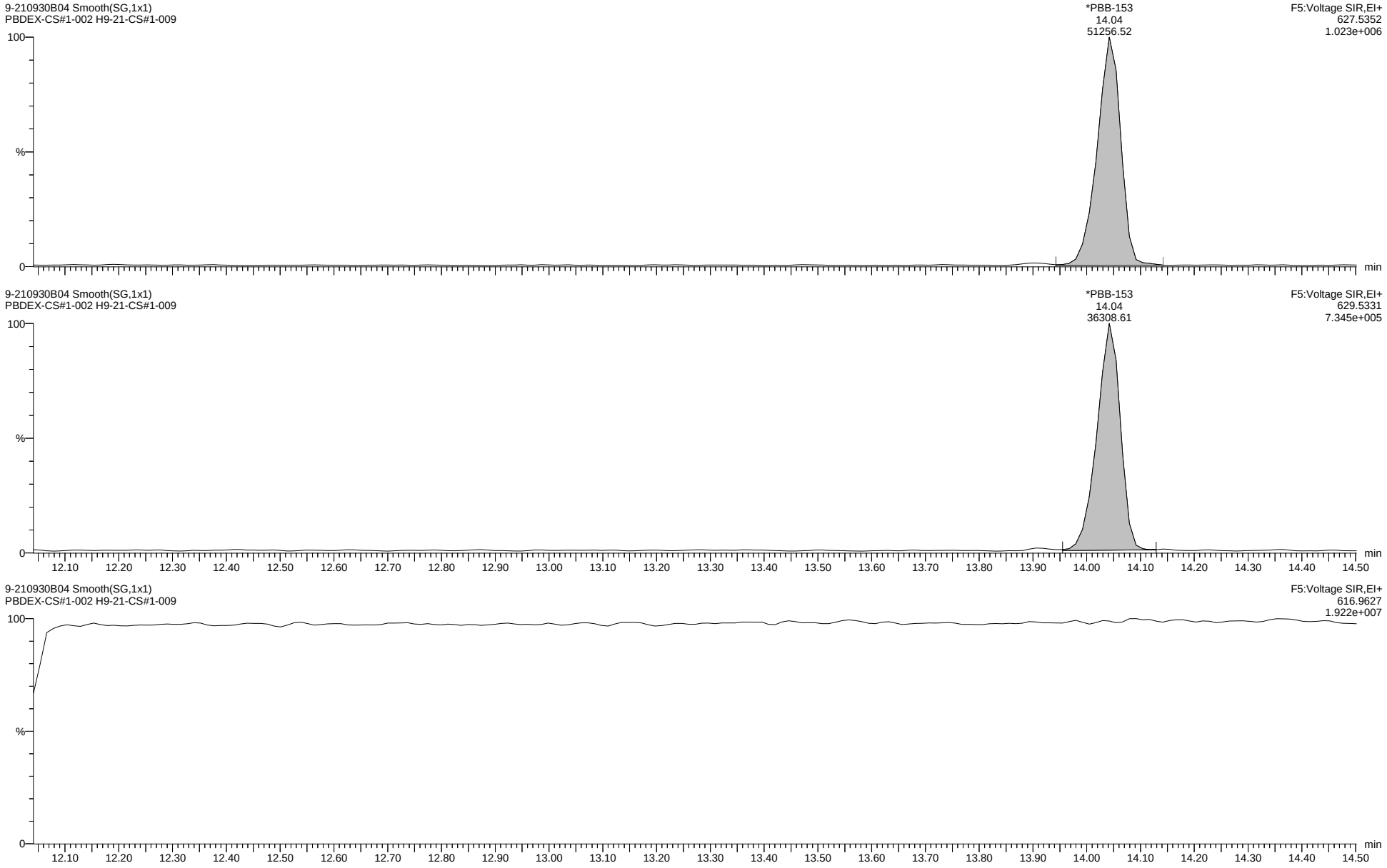

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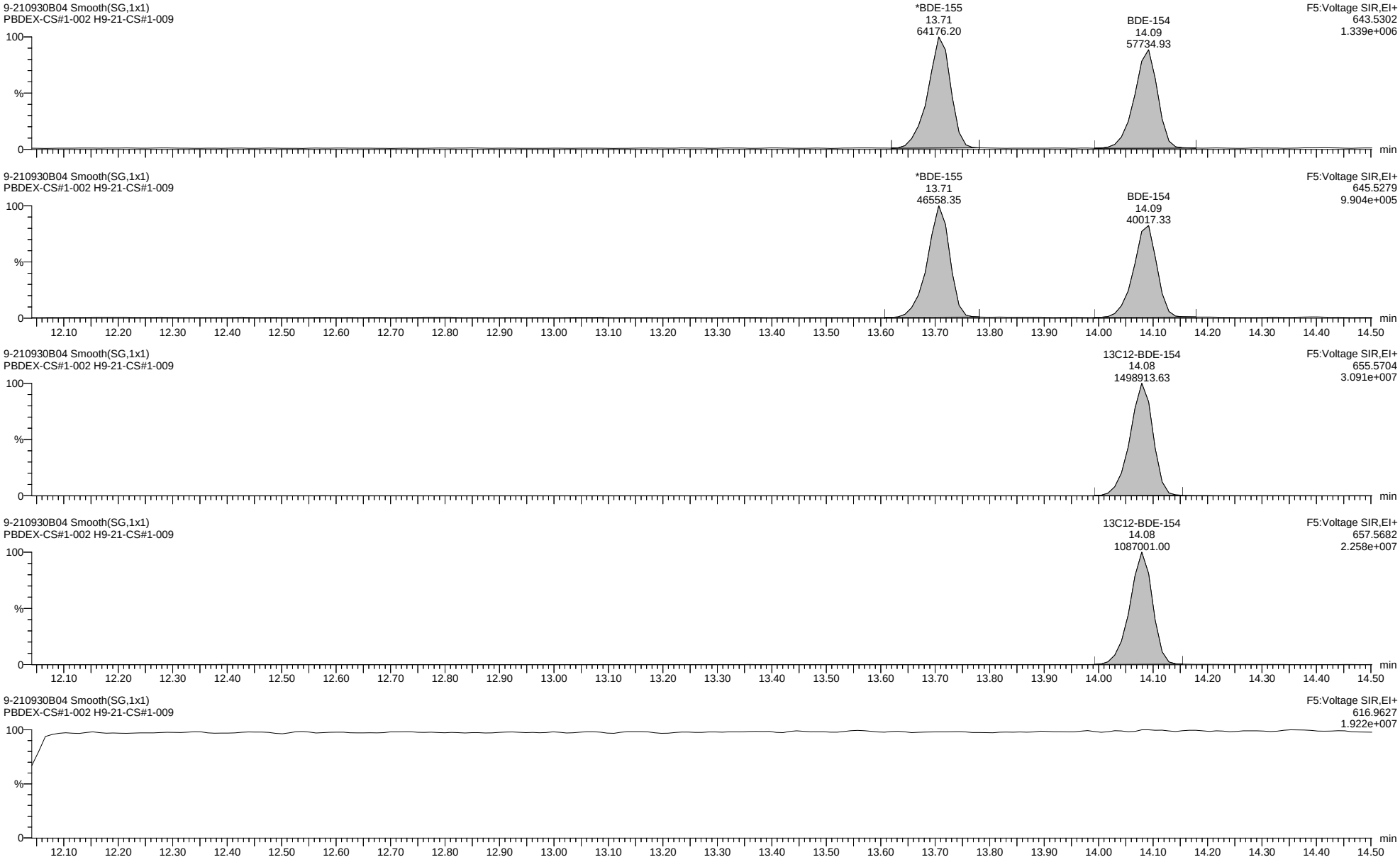

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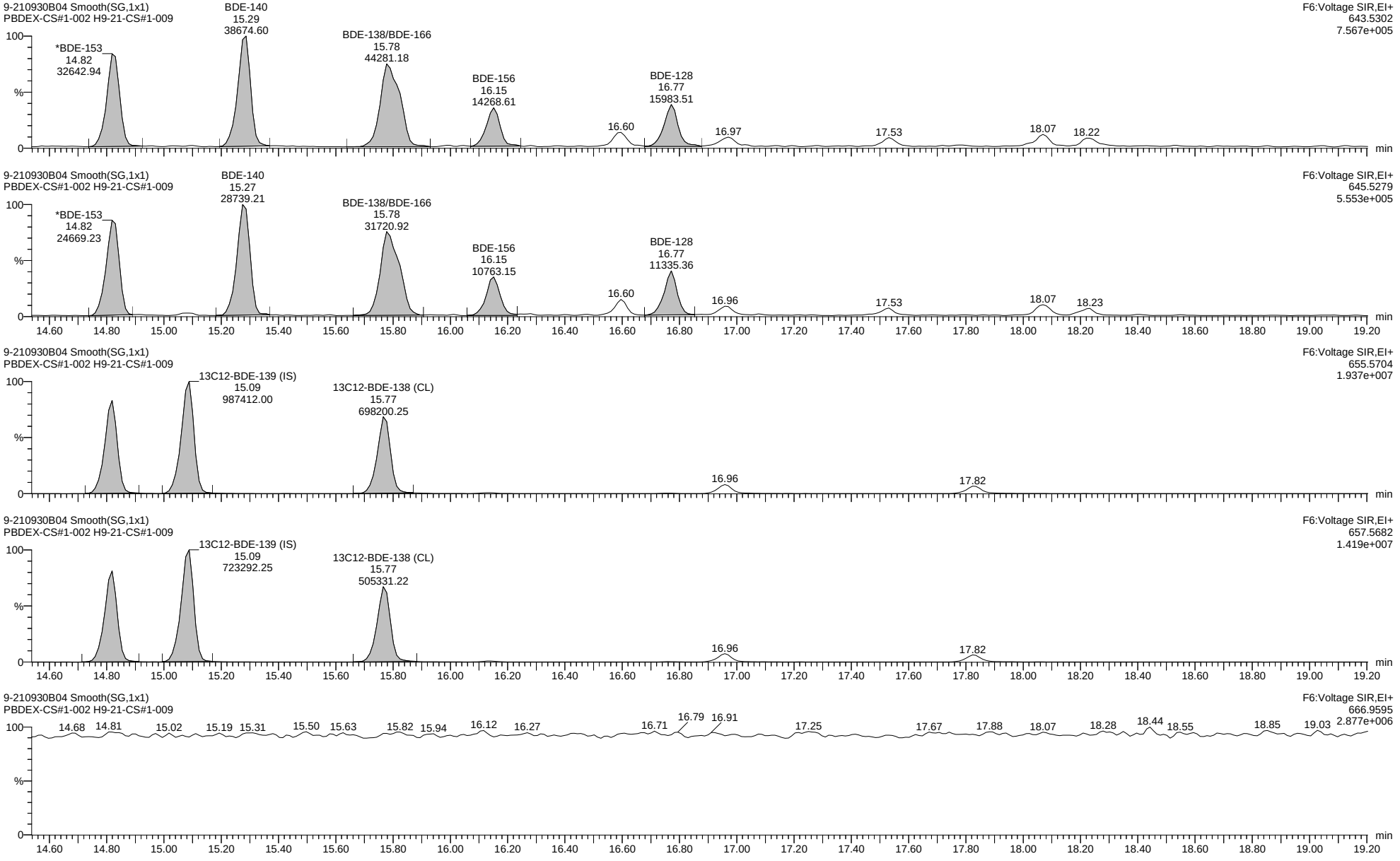
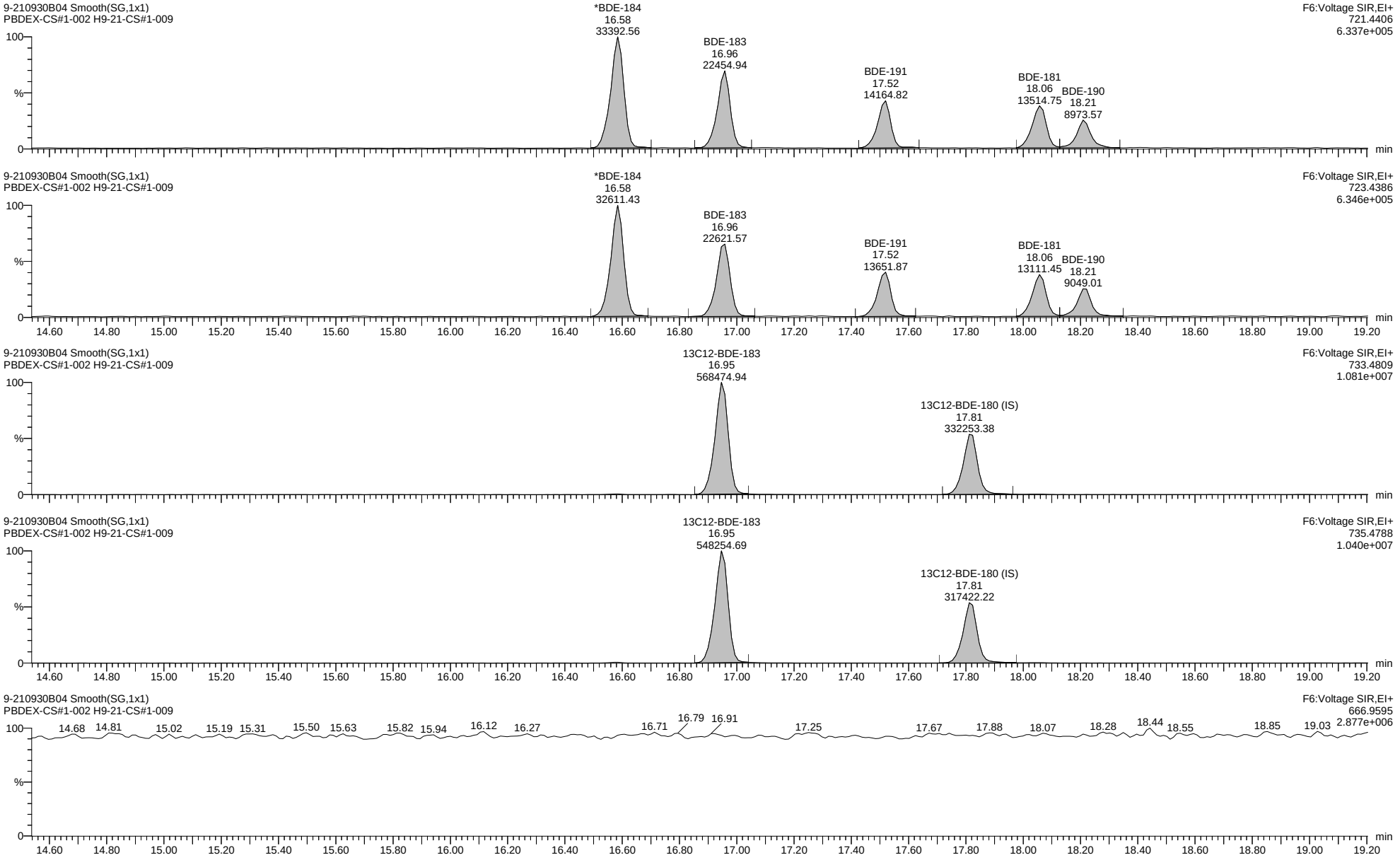
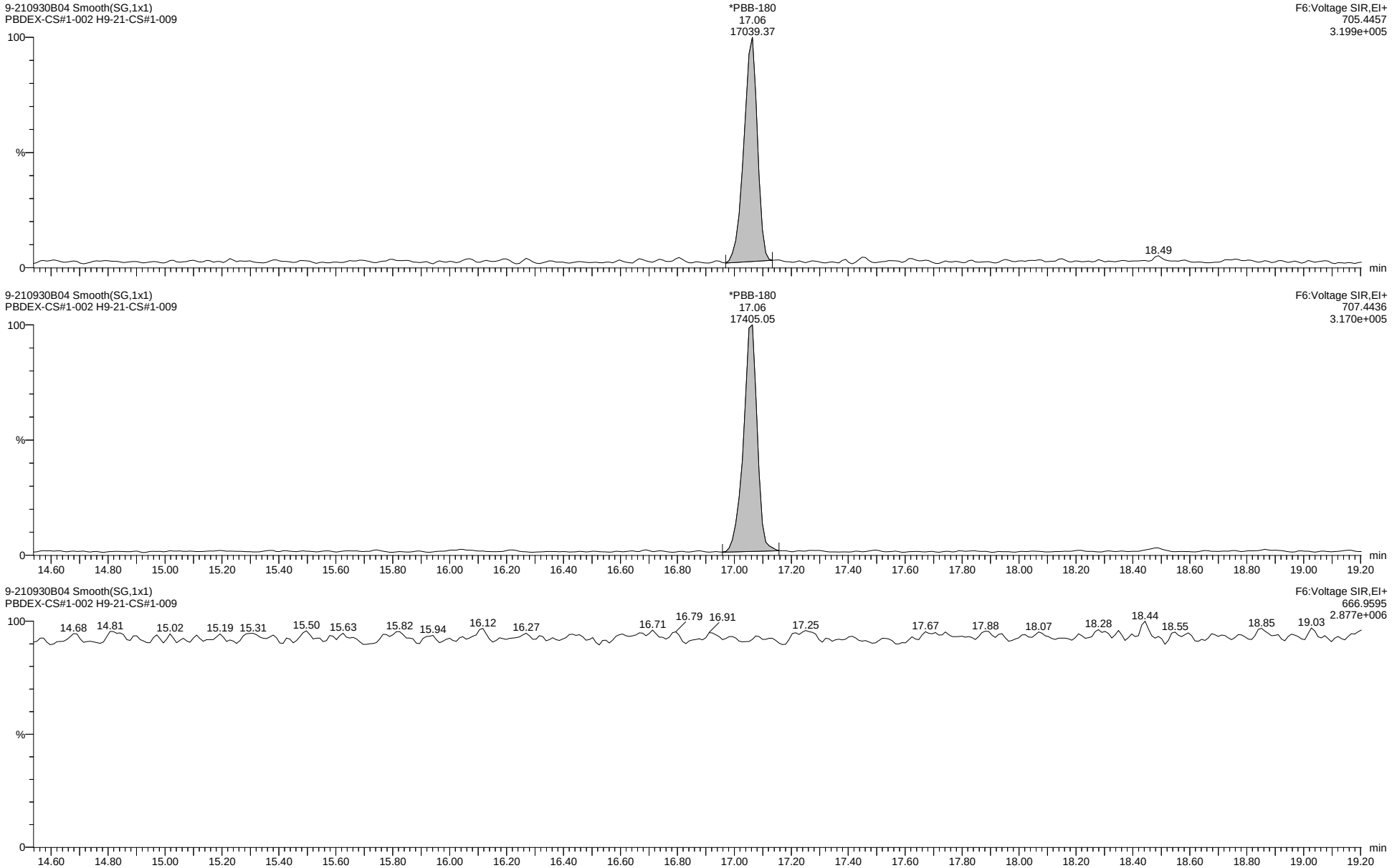


Name: 9-210930B04, Date: 30-Sep-2021, Time: 18:07:37, ID: H9-21-CS#1-009, Description: PBDEX-CS#1-002, Vial: Tray1:43



Name: 9-210930B04, Date: 30-Sep-2021, Time: 18:07:37, ID: H9-21-CS#1-009, Description: PBDEX-CS#1-002, Vial: Tray1:43



Quantify Sample Template Report **MassLynx MassLynx V4.1 SCN 901**

Dataset: I:\Organics Instrument\HIGHRES GCMS Completed Results Files\HR-9\2109\9-210930B-PBDE-ICAL.qld

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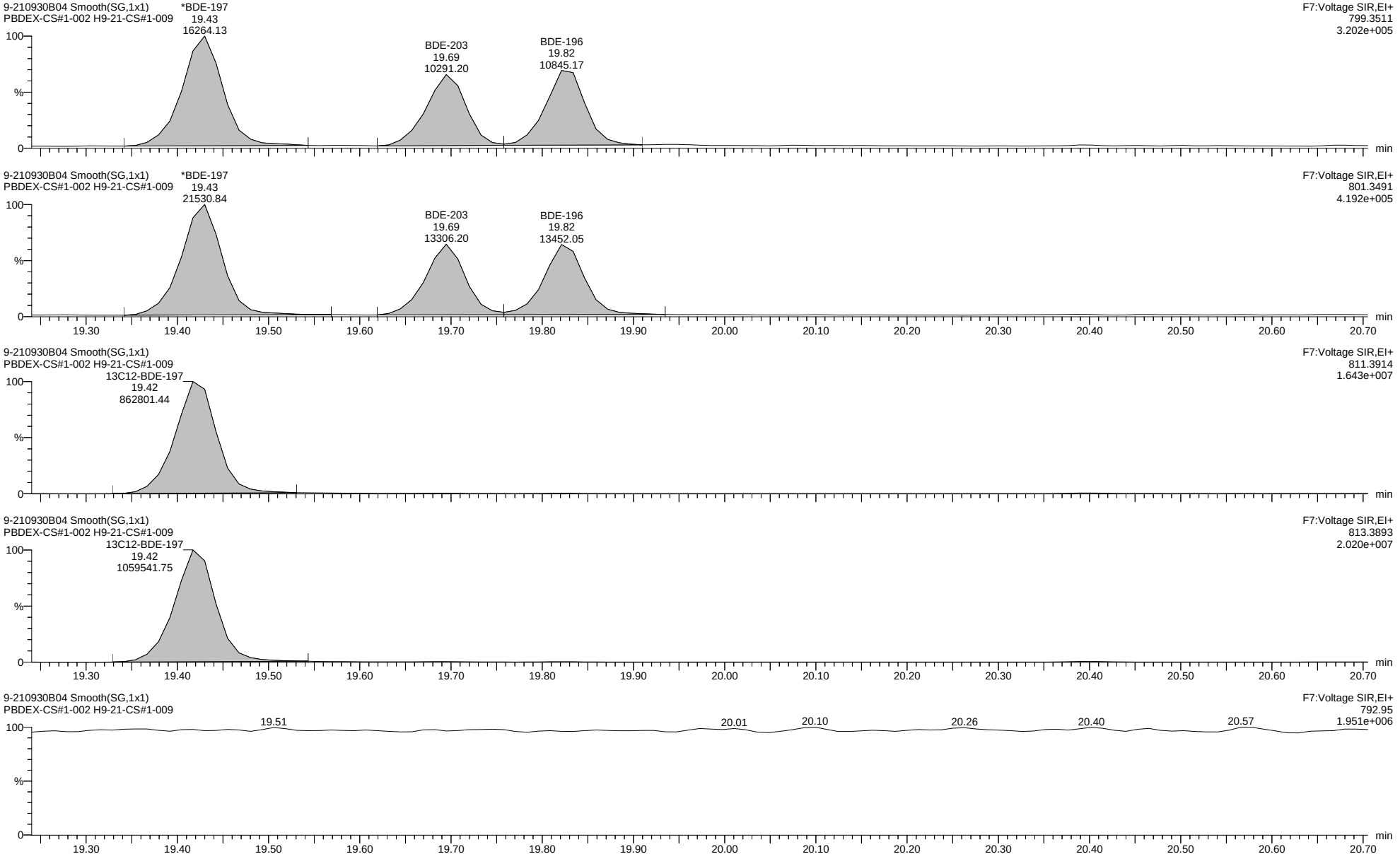
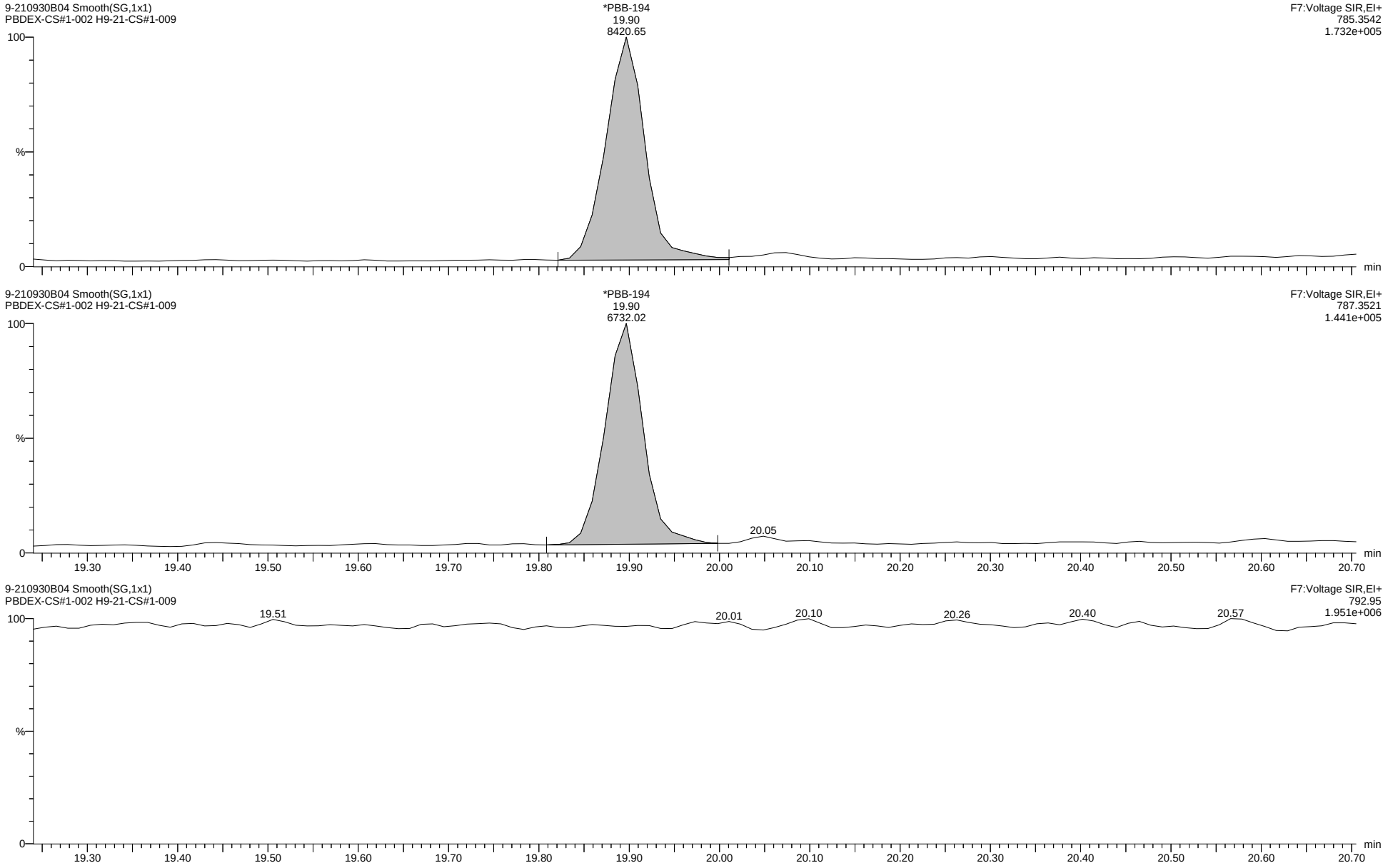


Name: 9-210930B04, Date: 30-Sep-2021, Time: 18:07:37, ID: H9-21-CS#1-009, Description: PBDEX-CS#1-002, Vial: Tray1:43



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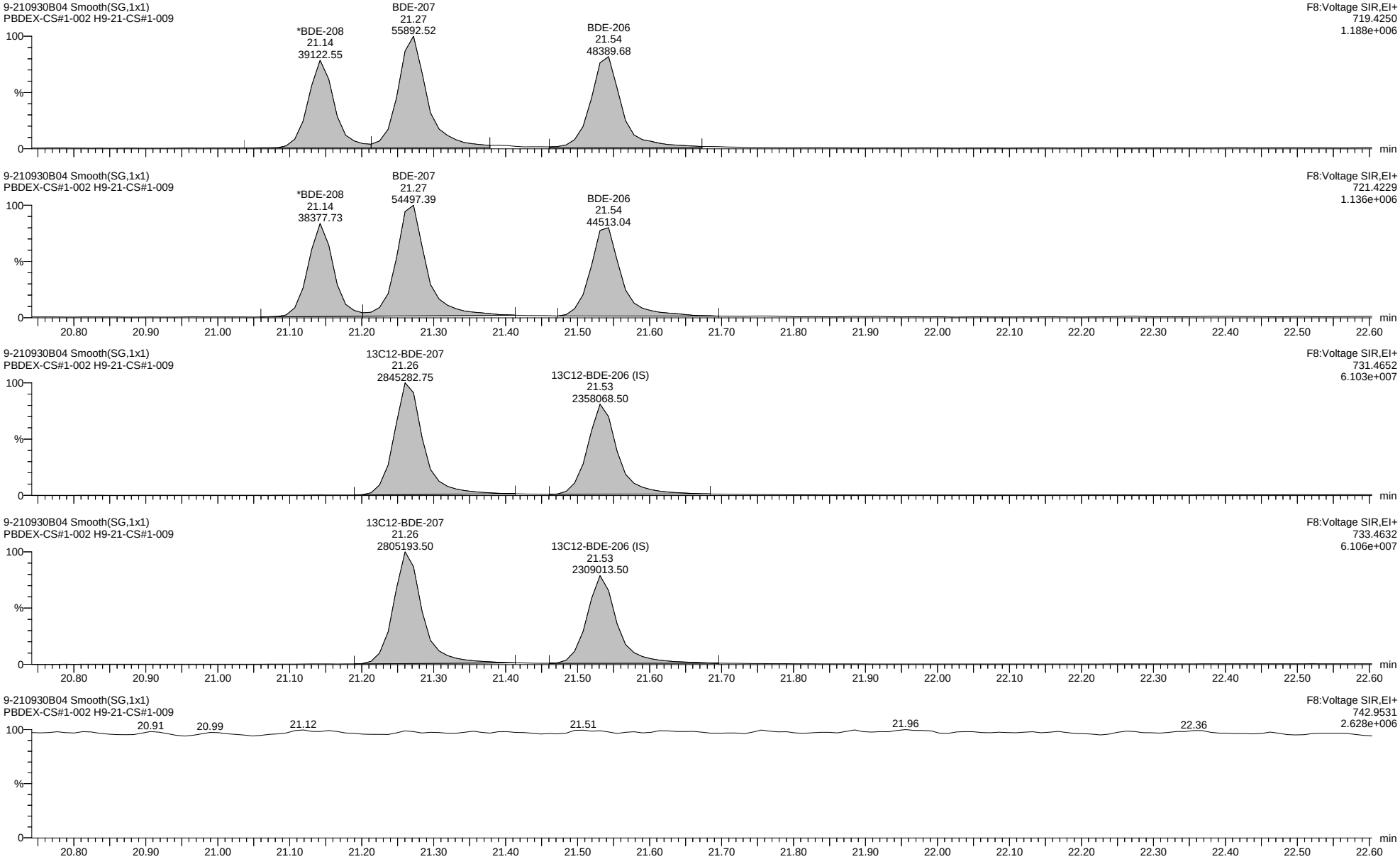

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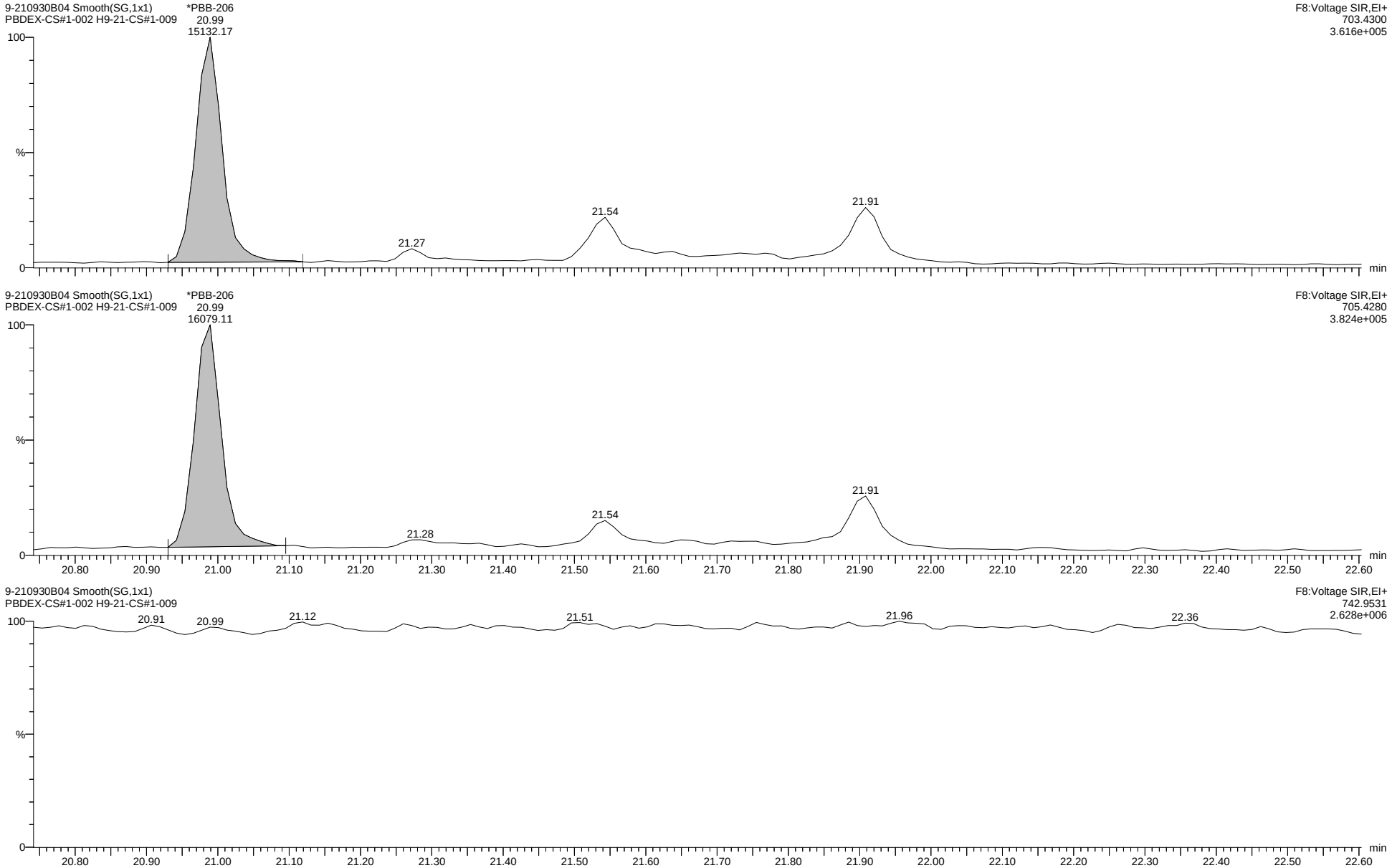

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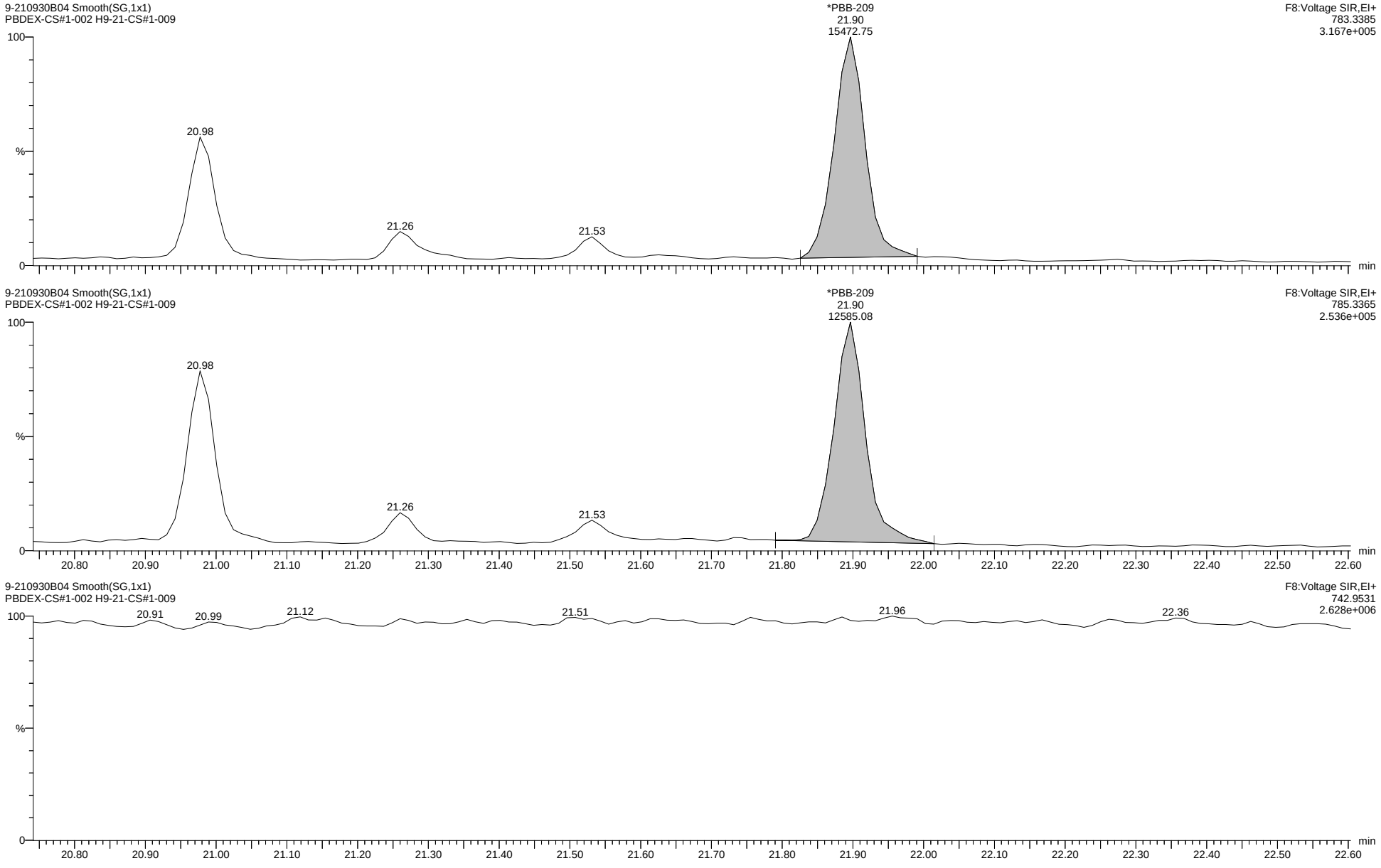

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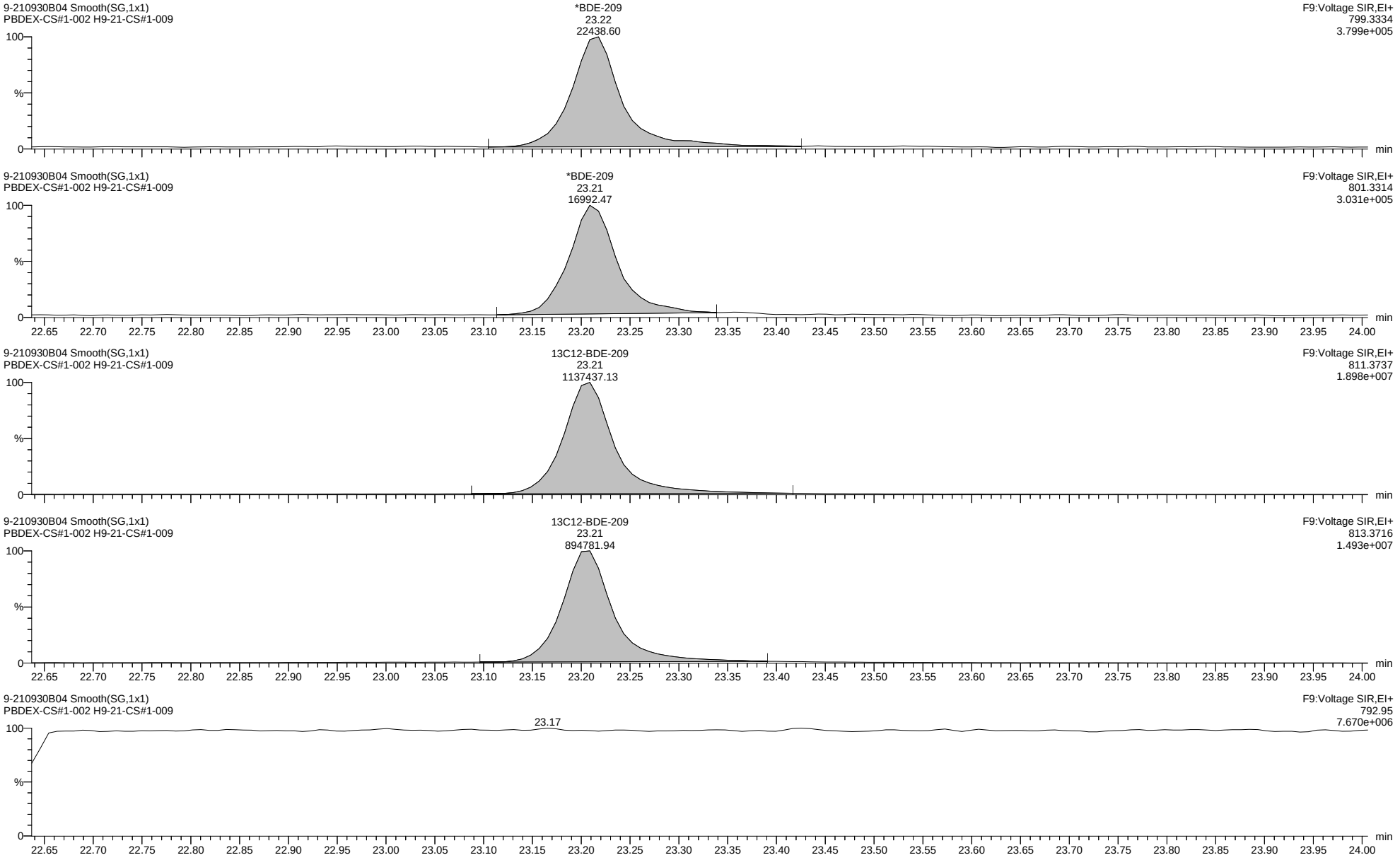

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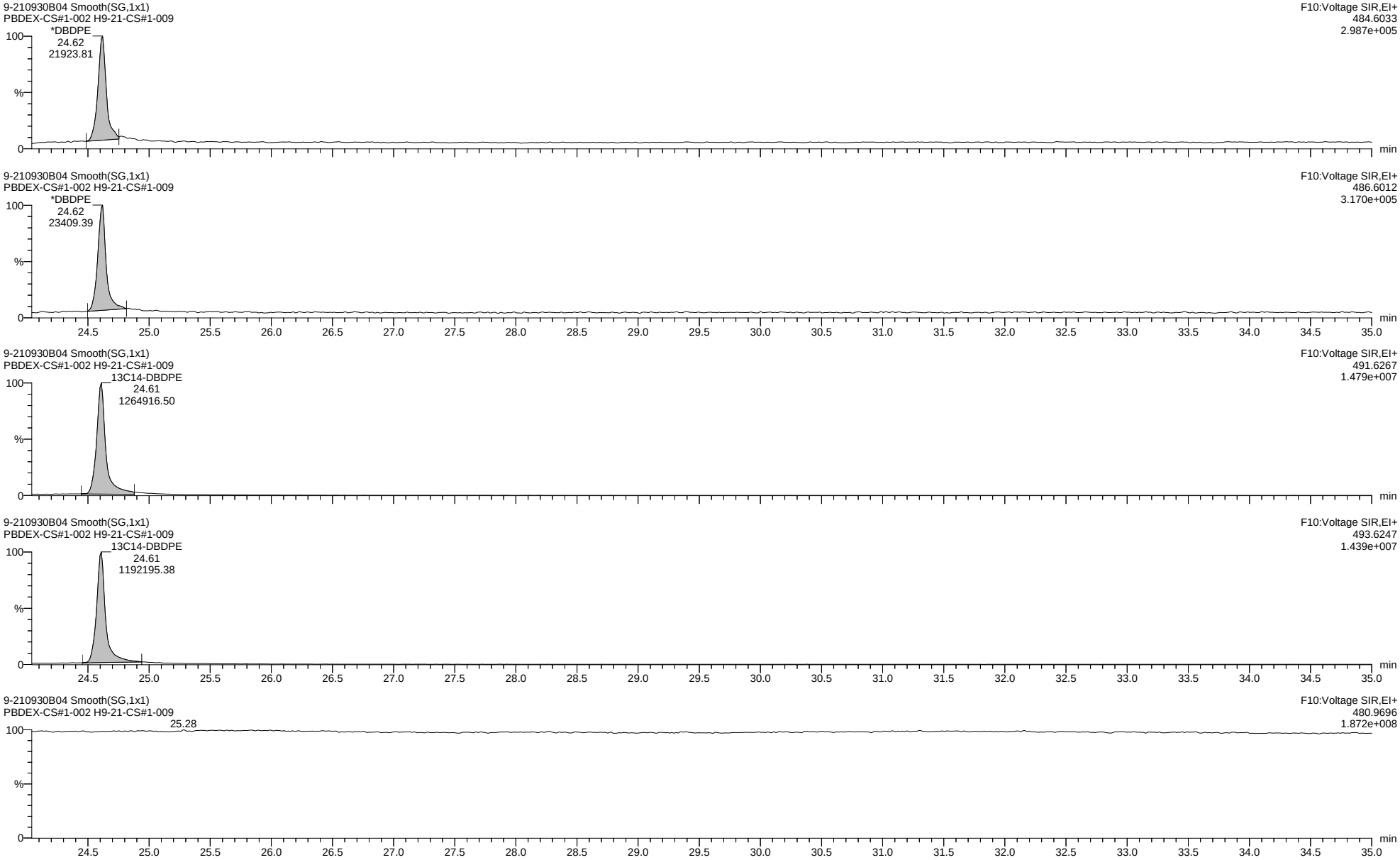


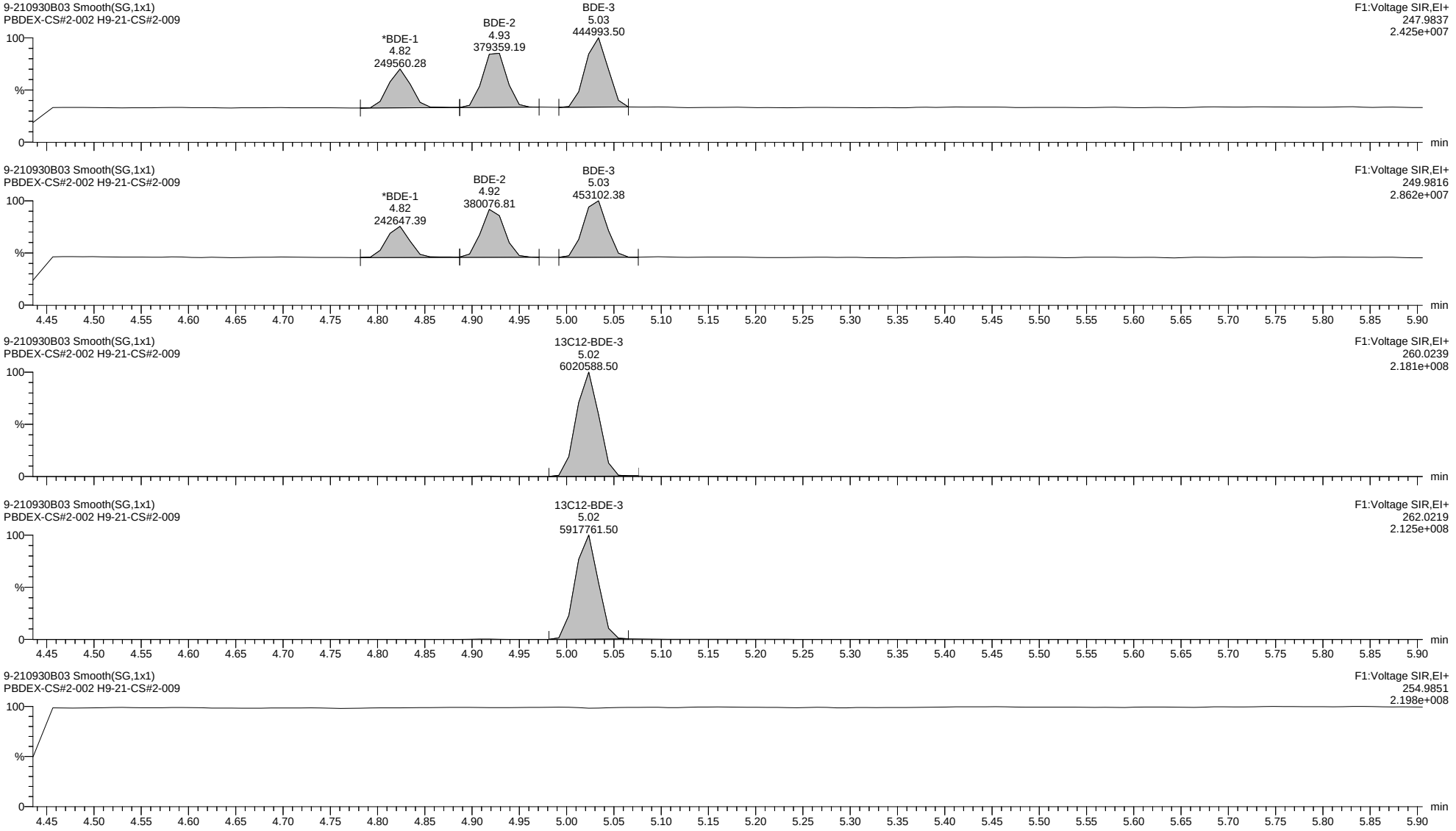
Quantify Sample Template Report **MassLynx MassLynx V4.1 SCN 901**

Dataset: I:\Organics Instrument\HIGHRES GCMS Completed Results Files\HR-9\2109\9-210930B-PBDE-ICAL.qld

Last Altered: Friday, October 01, 2021 09:18:22 Eastern Daylight Time
Printed: Thursday, November 18, 2021 10:17:57 Eastern Standard Time

Method: C:\MassLynx\PBDE.PRO\Methods\PBDEX-DB5-1-210930B.mdb 28 Sep 2021 13:06:19
Calibration: C:\MassLynx\PBDE.PRO\CurveDB\9-210930B-PBDEX-ICAL.cdb 01 Oct 2021 10:18:22

Name: 9-210930B03, Date: 30-Sep-2021, Time: 17:31:12, ID: H9-21-CS#2-009, Description: PBDEX-CS#2-002, Vial: Tray1:42



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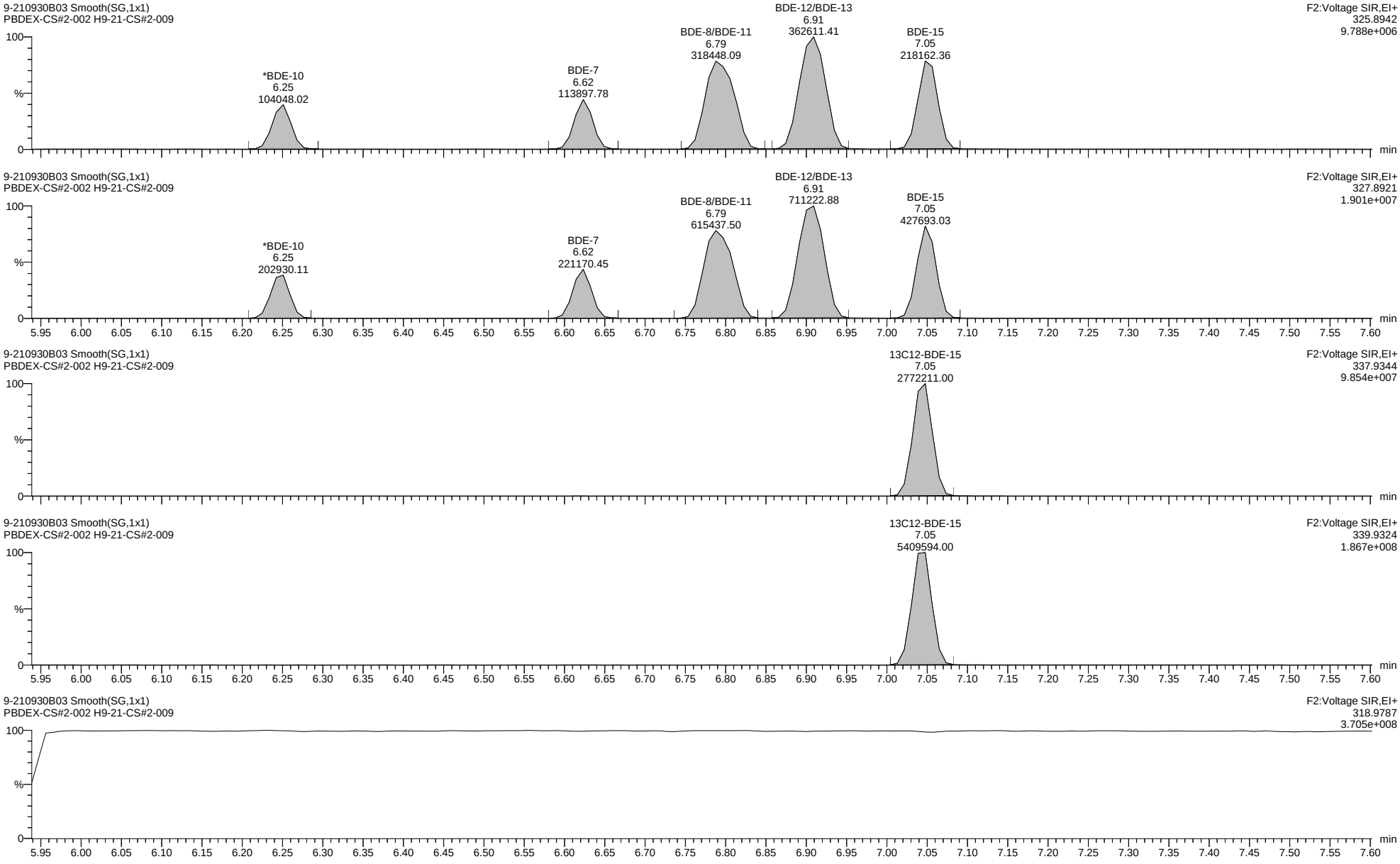

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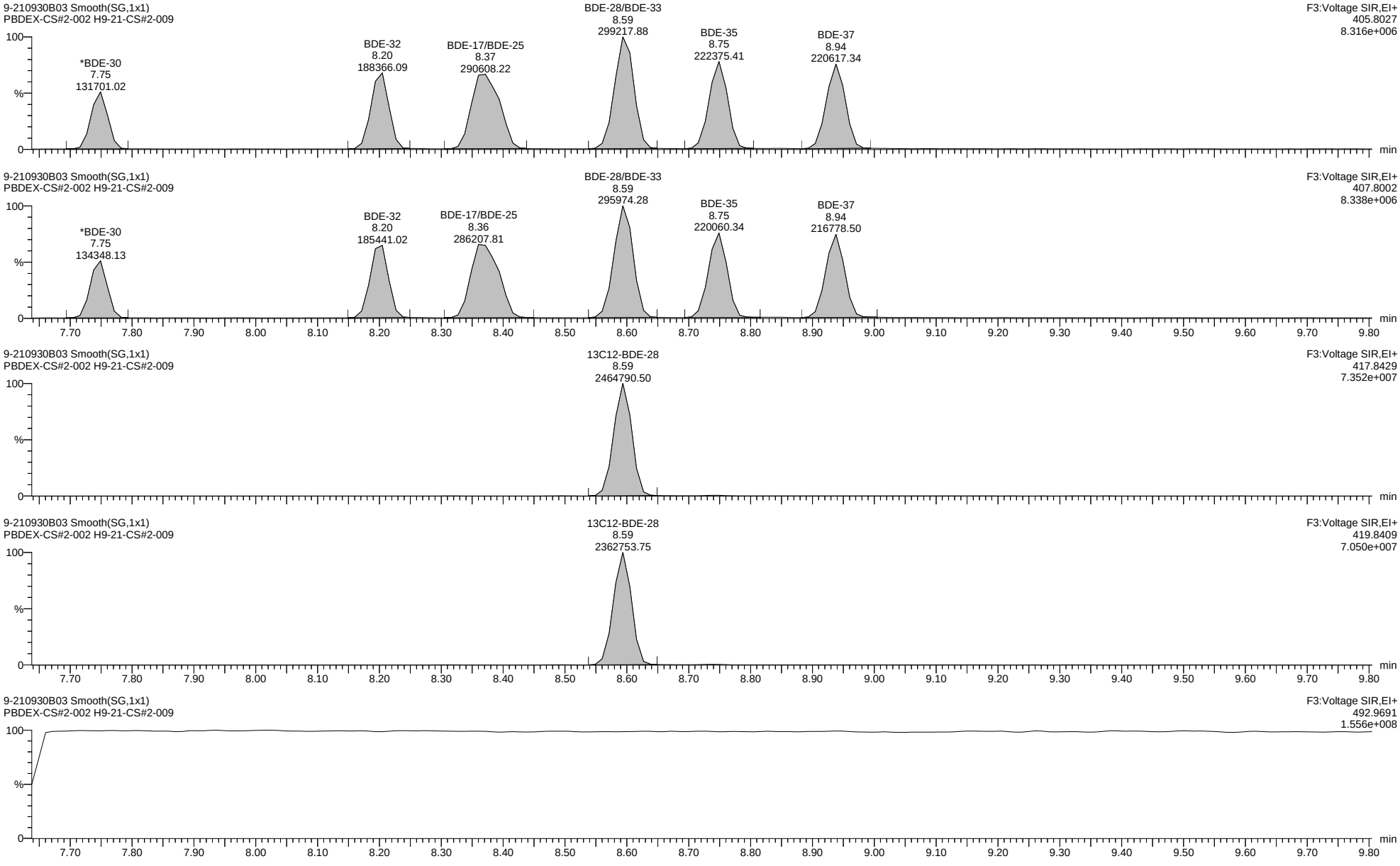

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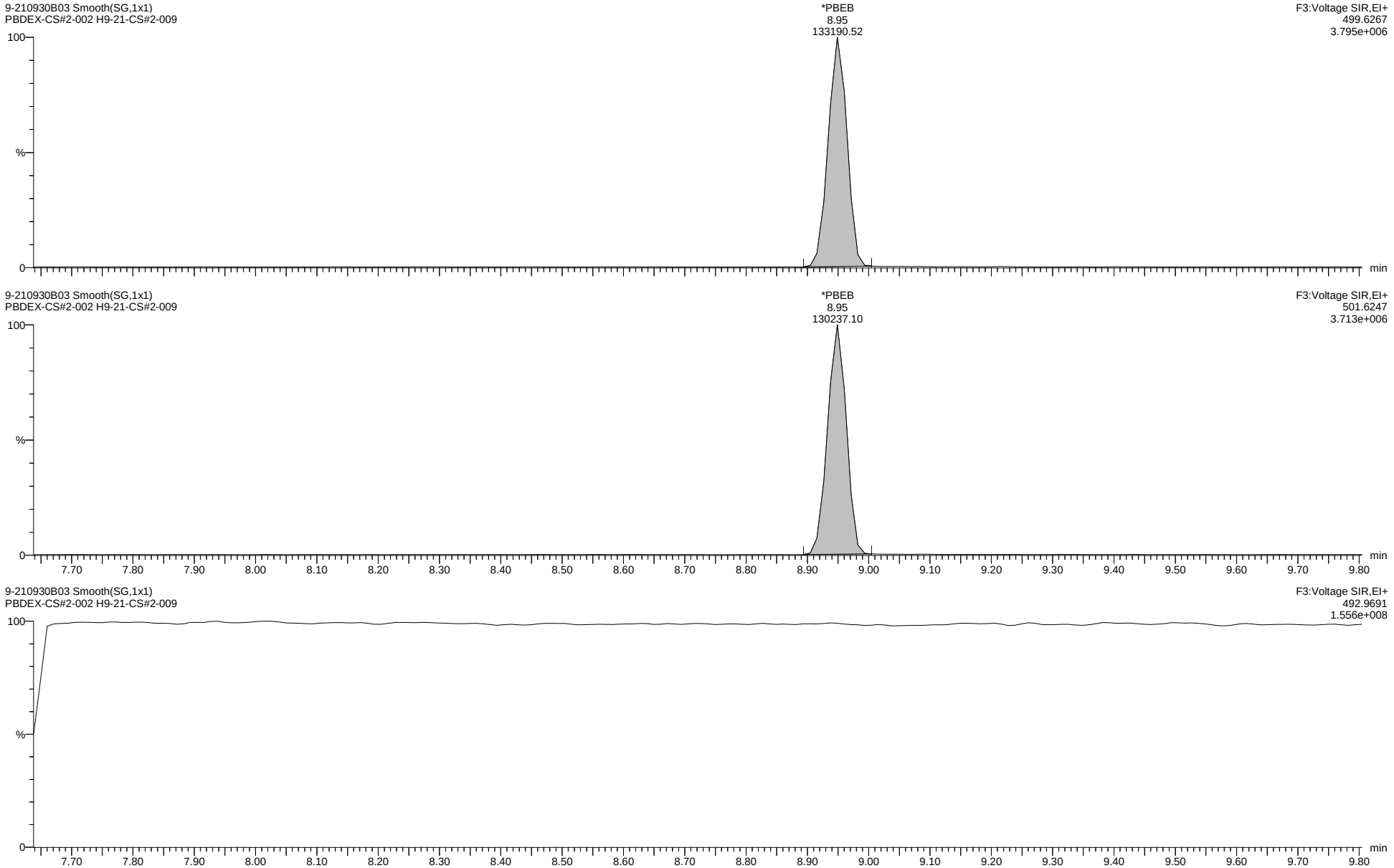

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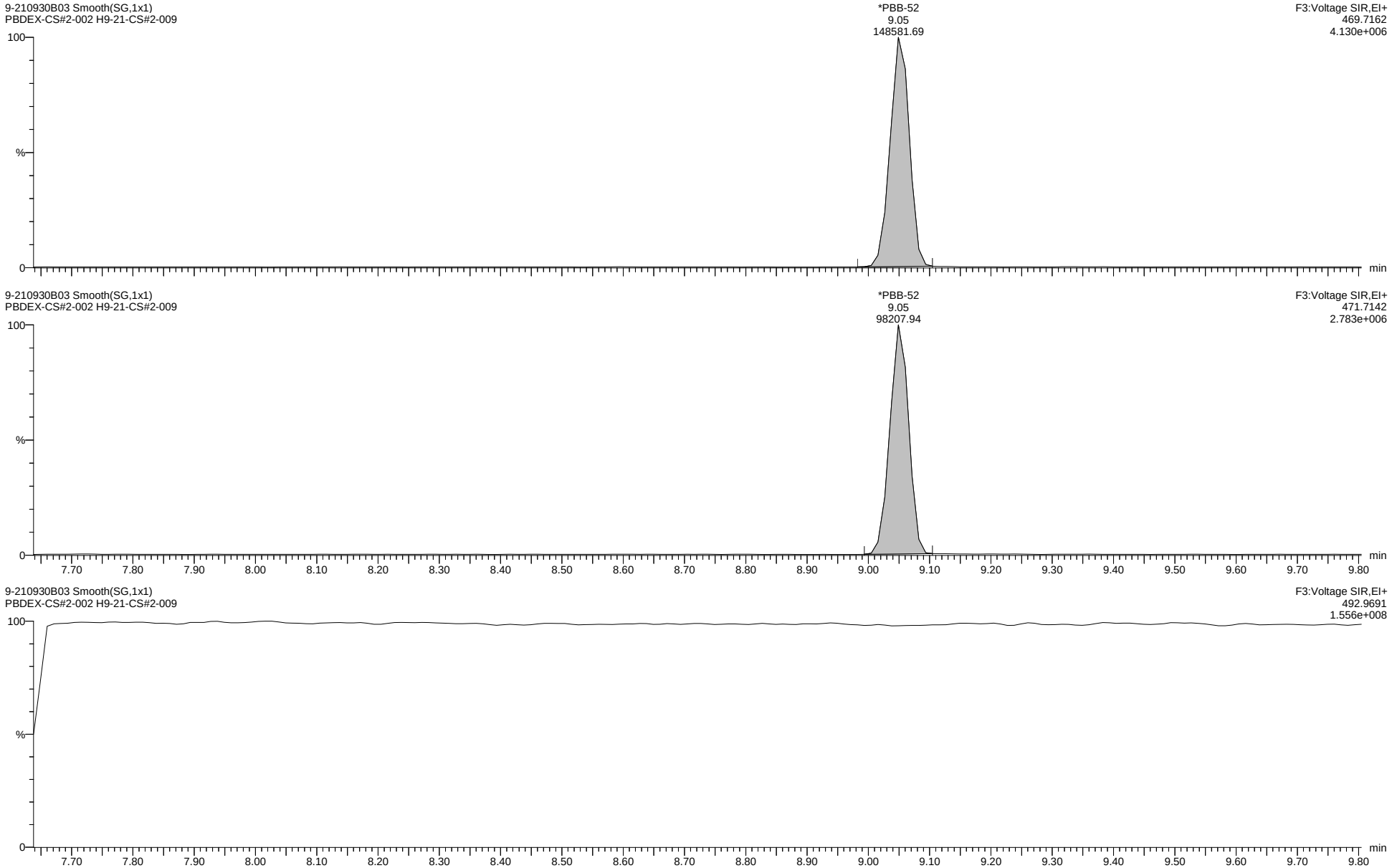

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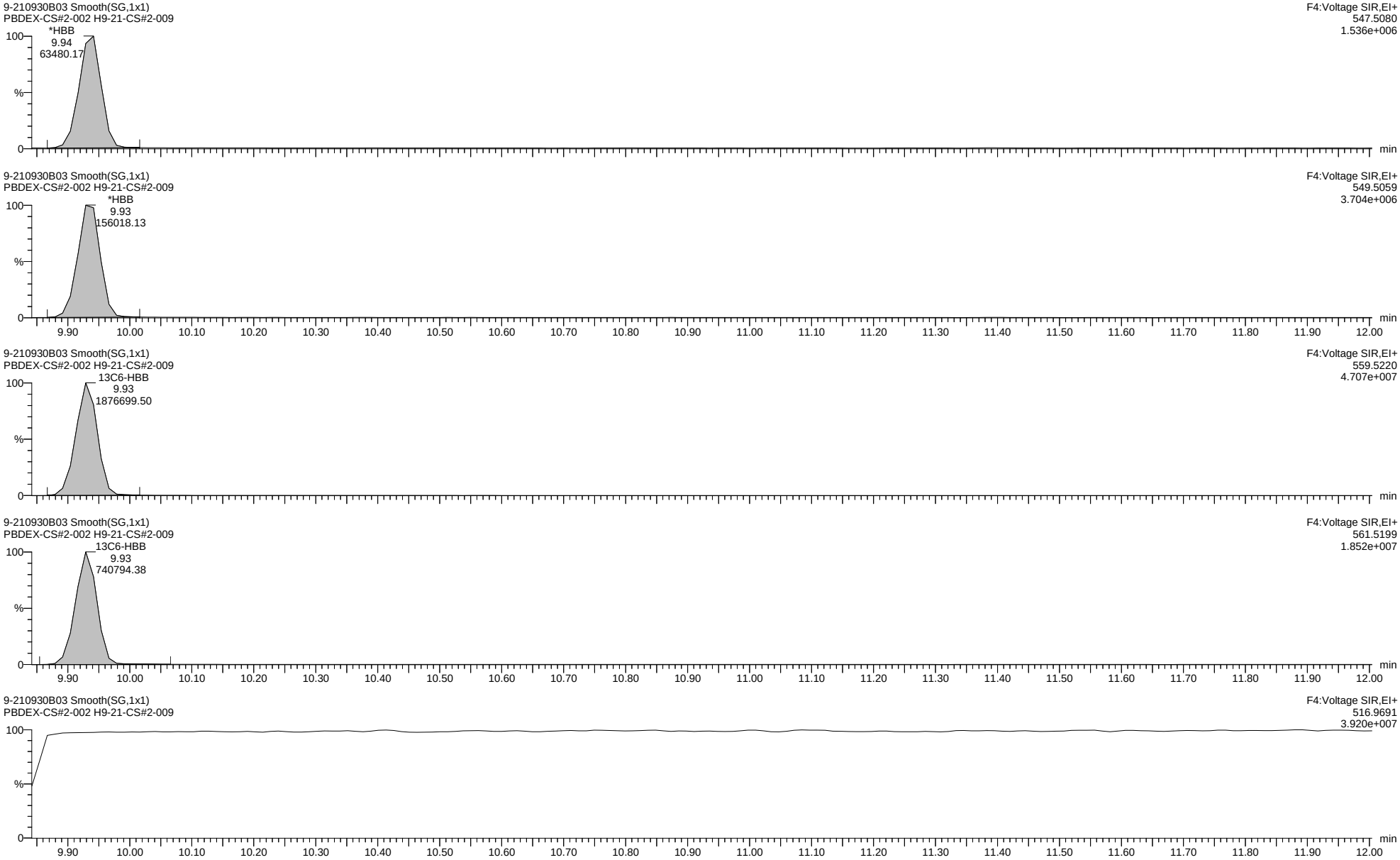

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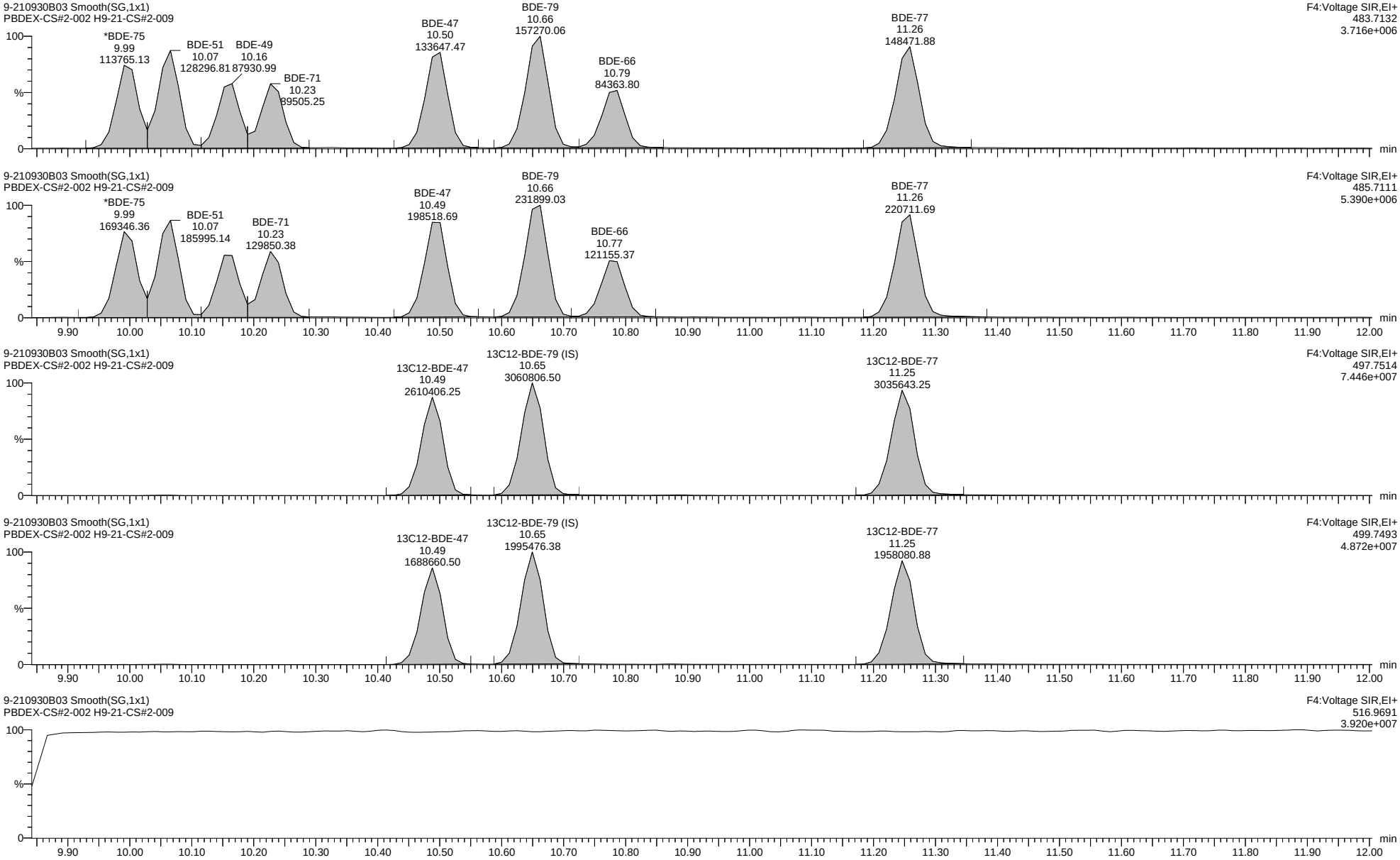

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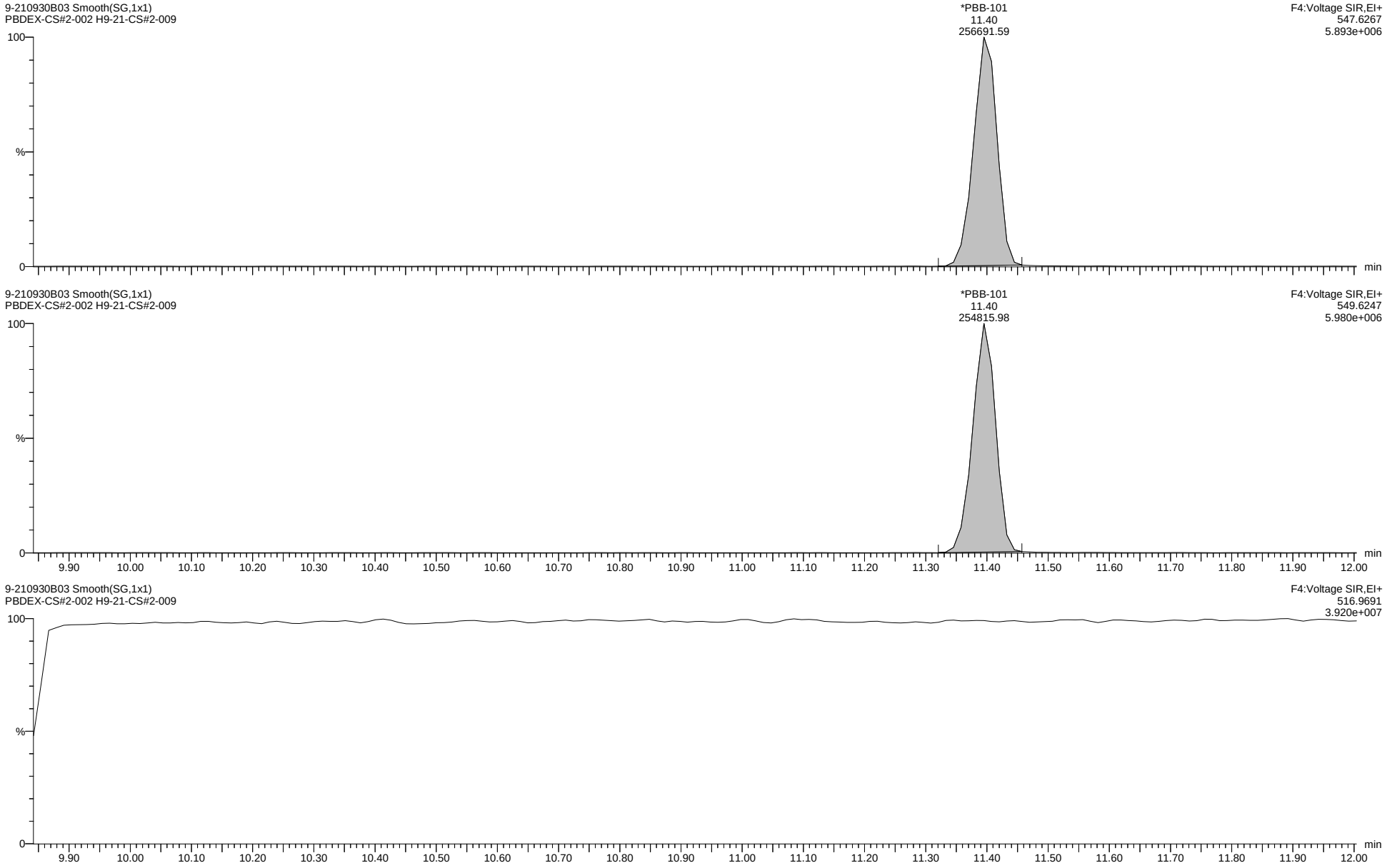

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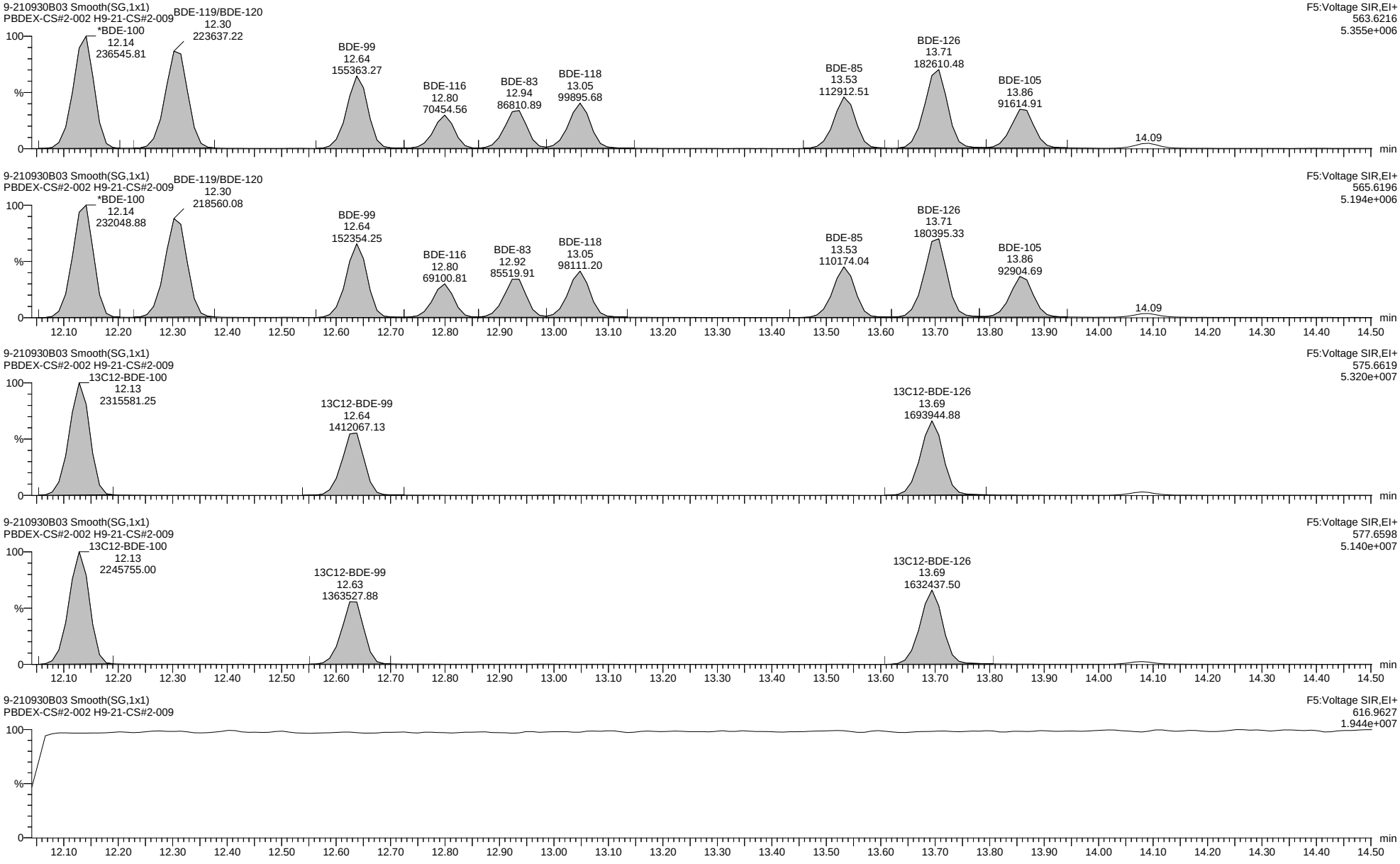

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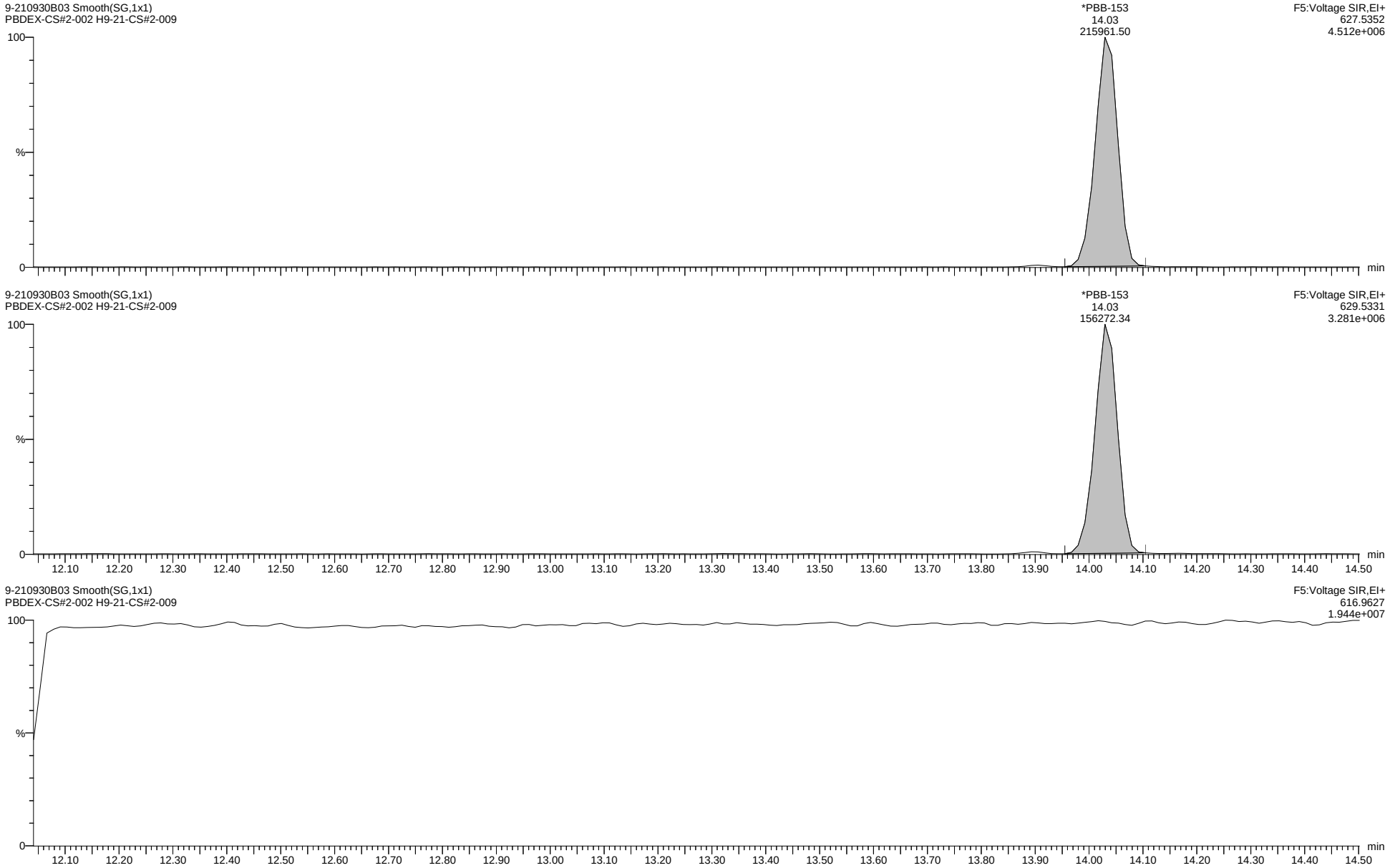

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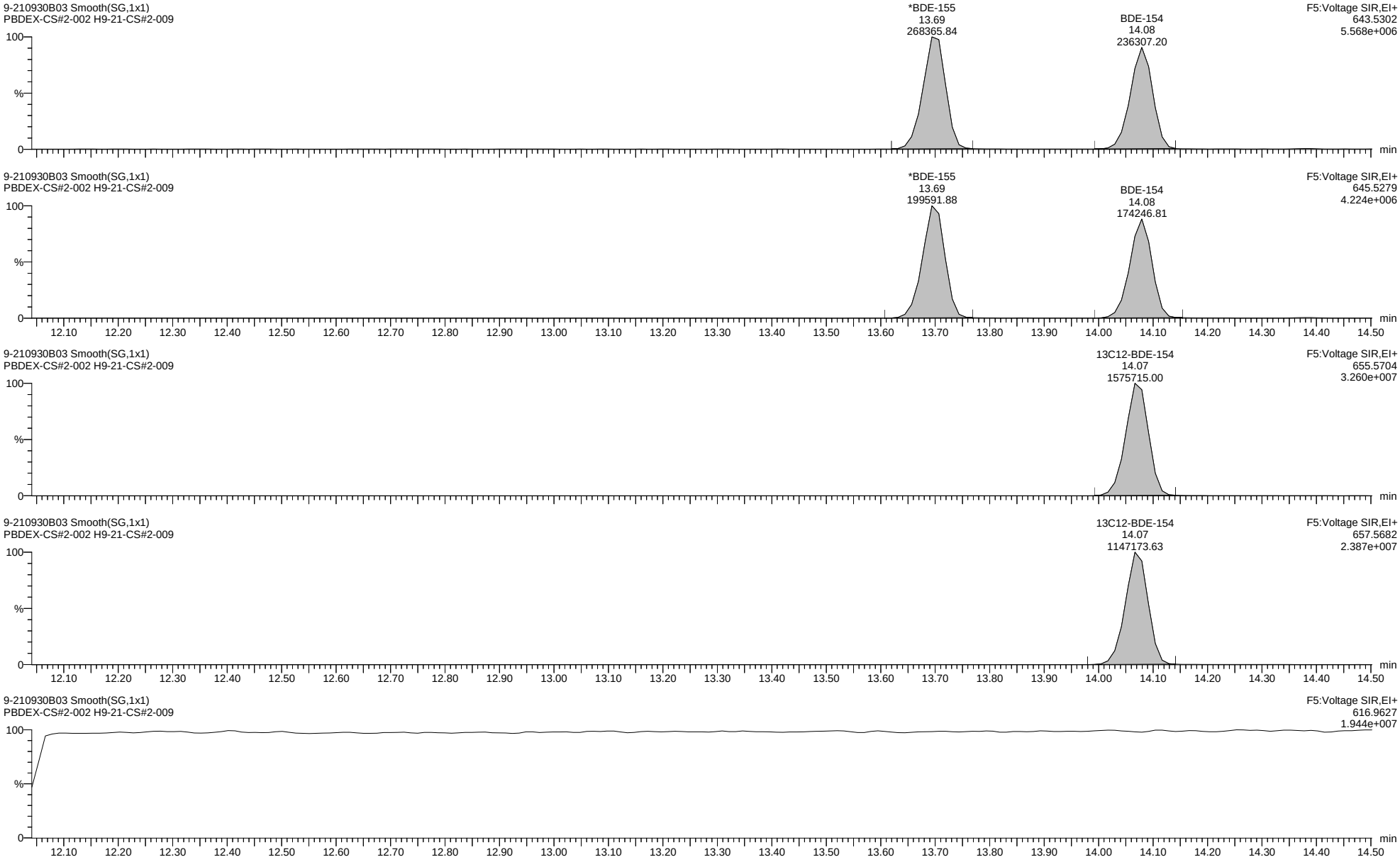

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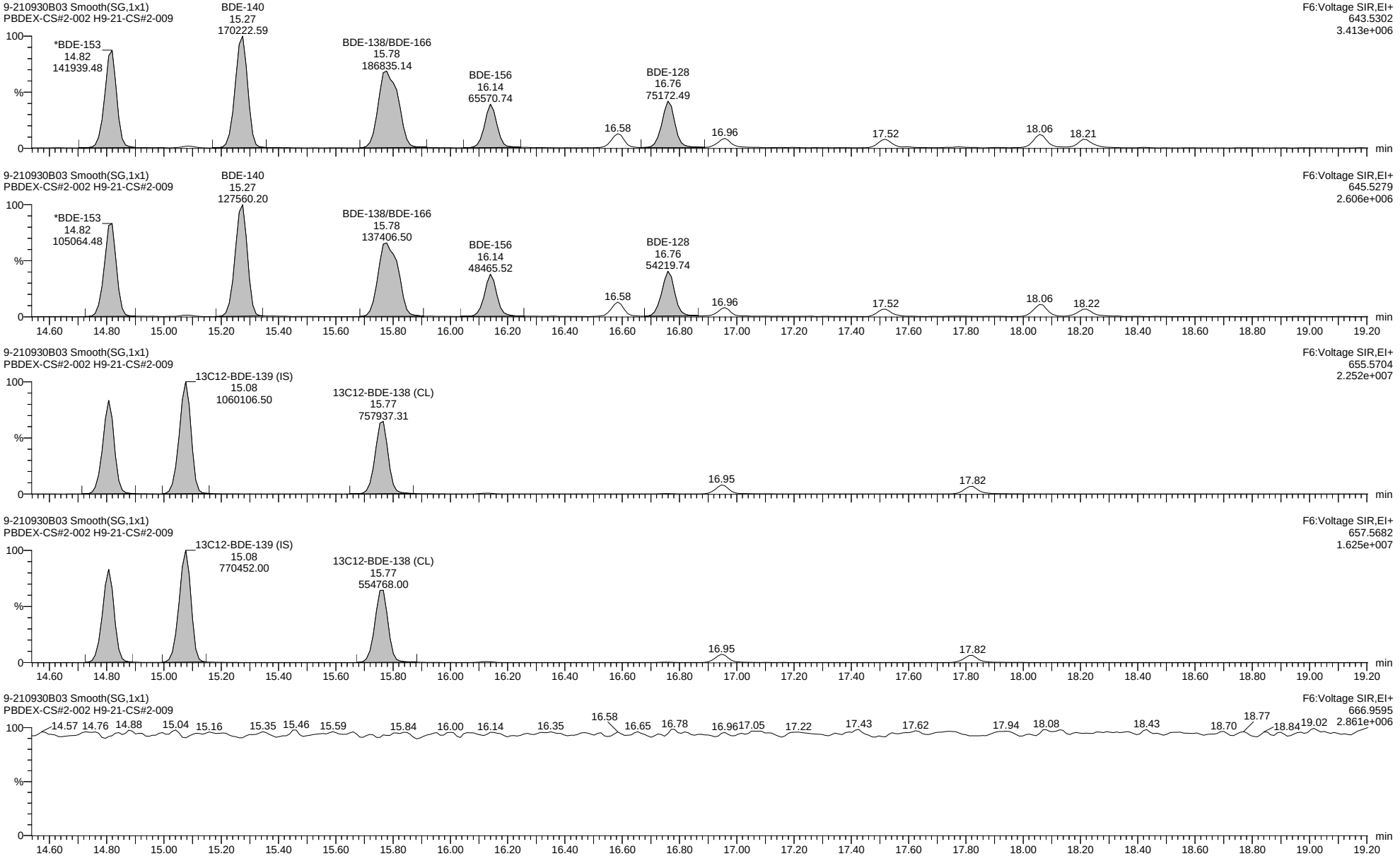

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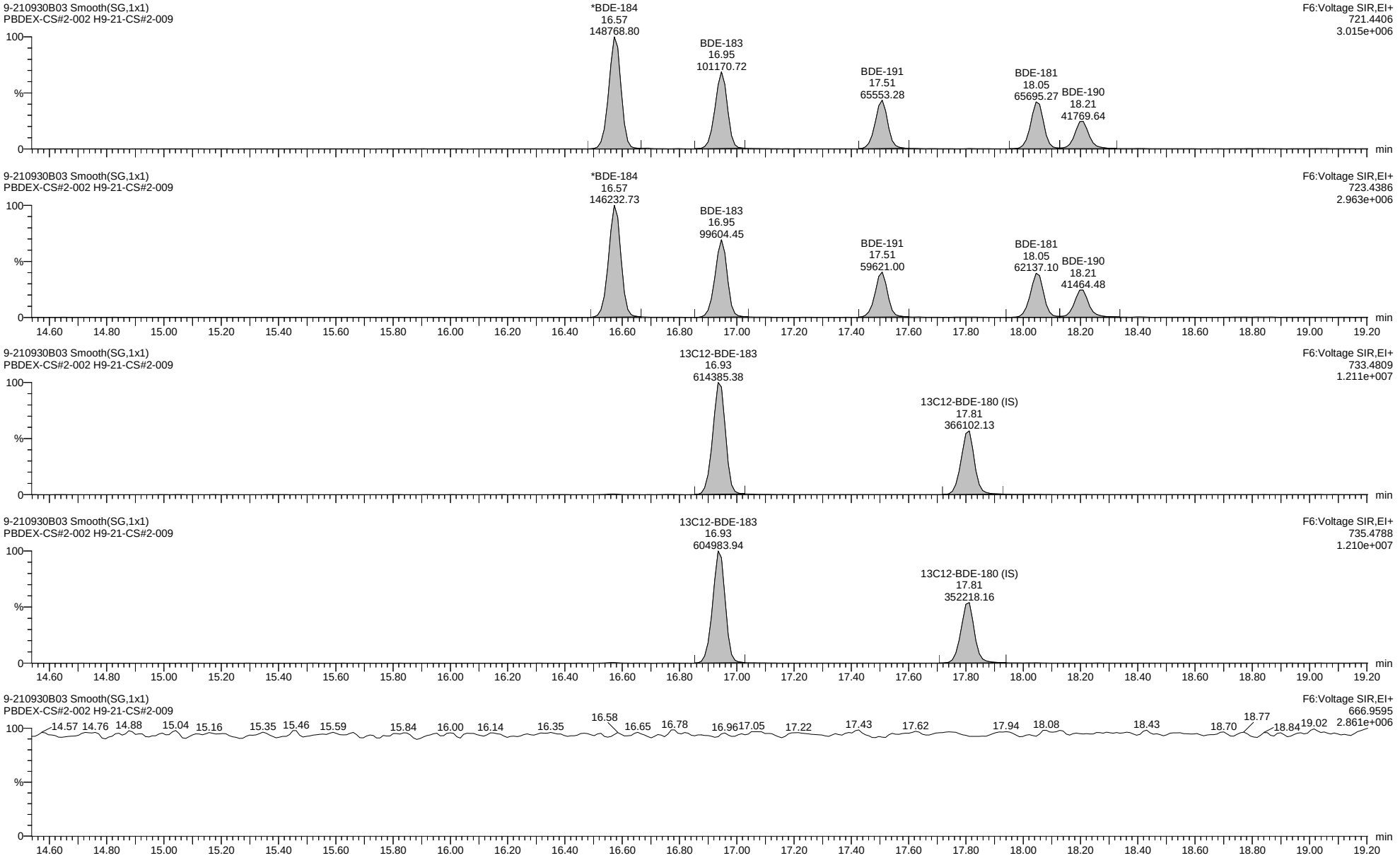

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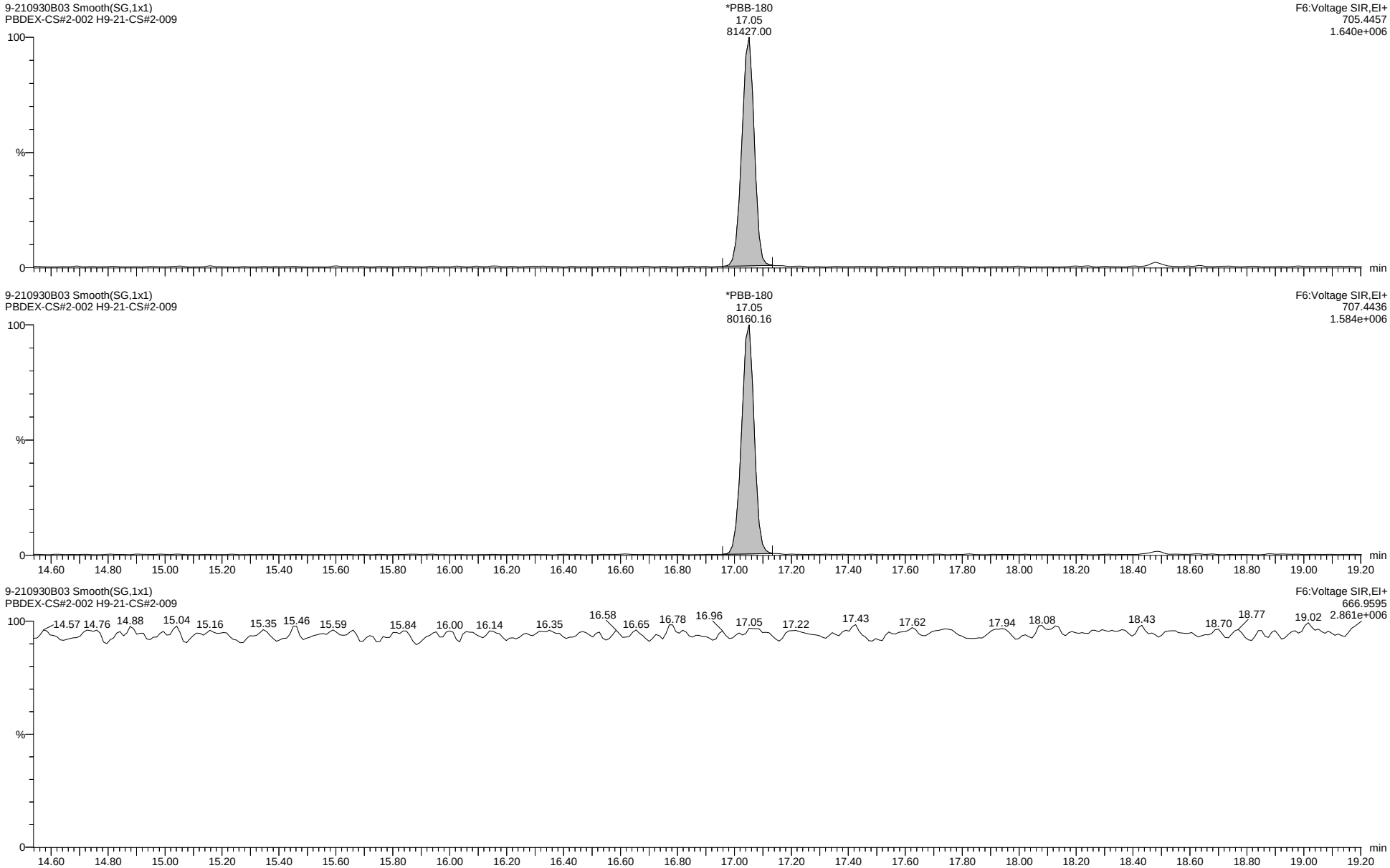

Quantify Sample Template Report **MassLynx MassLynx V4.1 SCN 901**

Dataset: I:\Organics Instrument\HIGHRES GCMS Completed Results Files\HR-9\2109\9-210930B-PBDE-ICAL.qld

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Printed: Thursday, November 18, 2021 10:17:57 Eastern Standard Time

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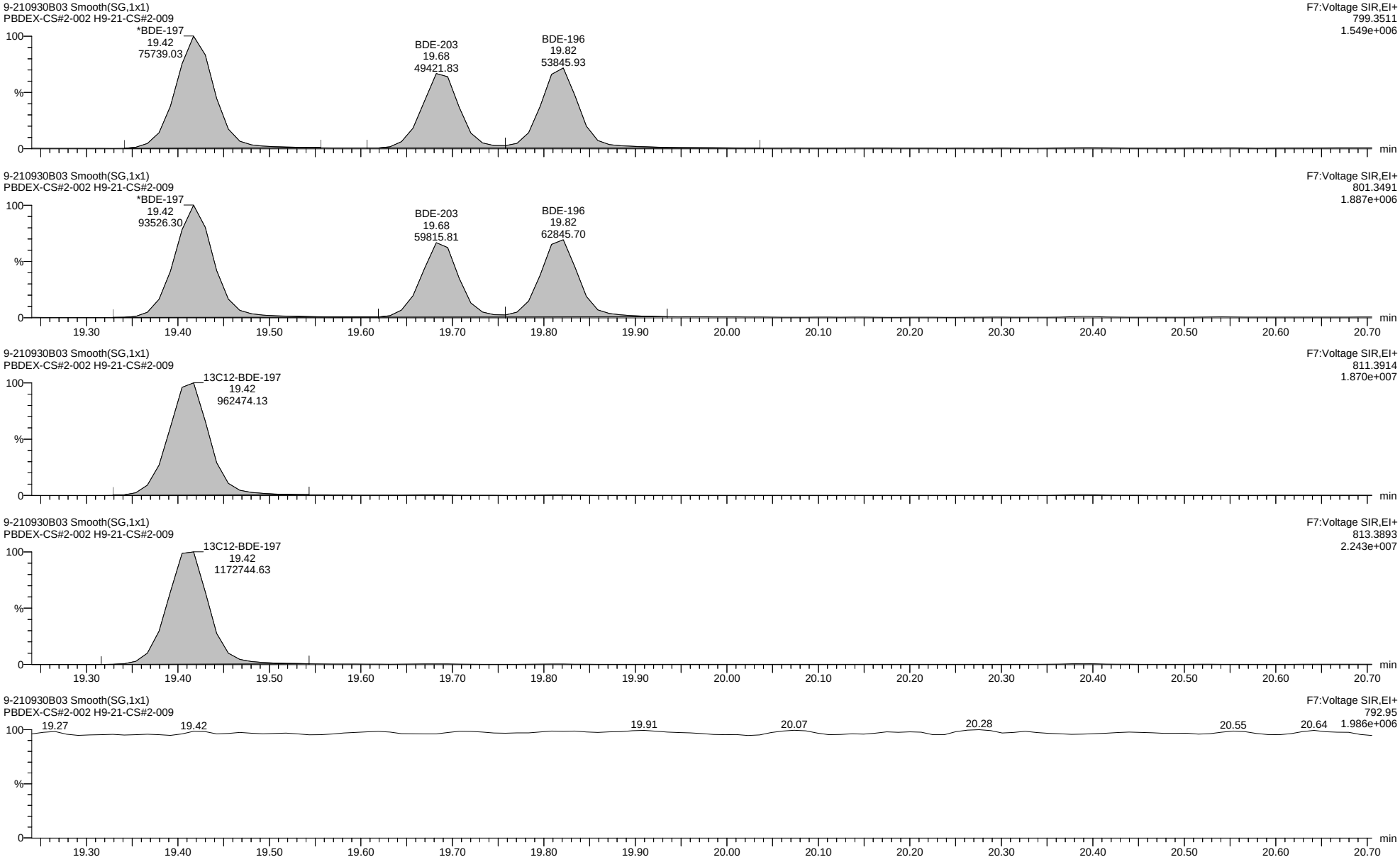

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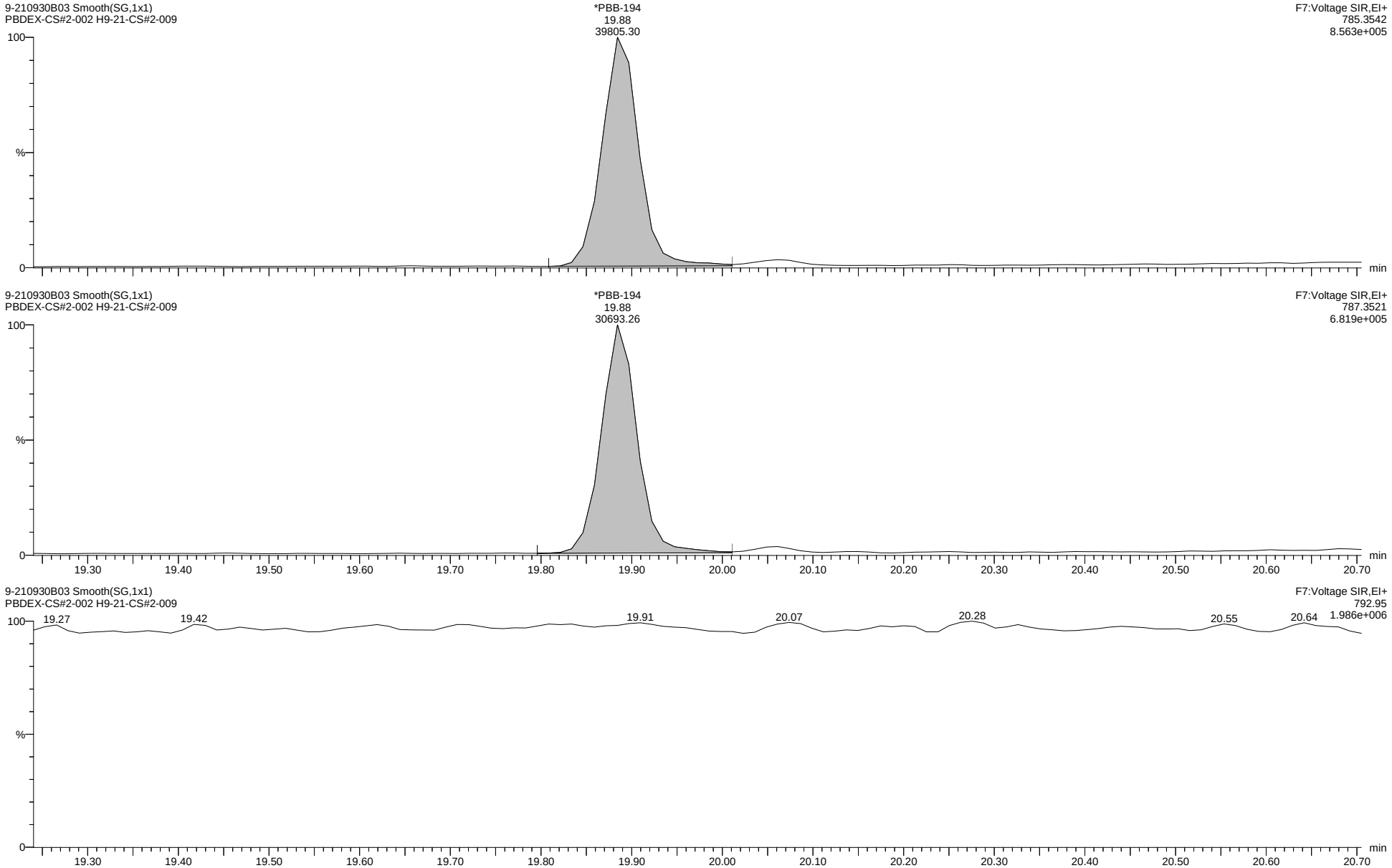

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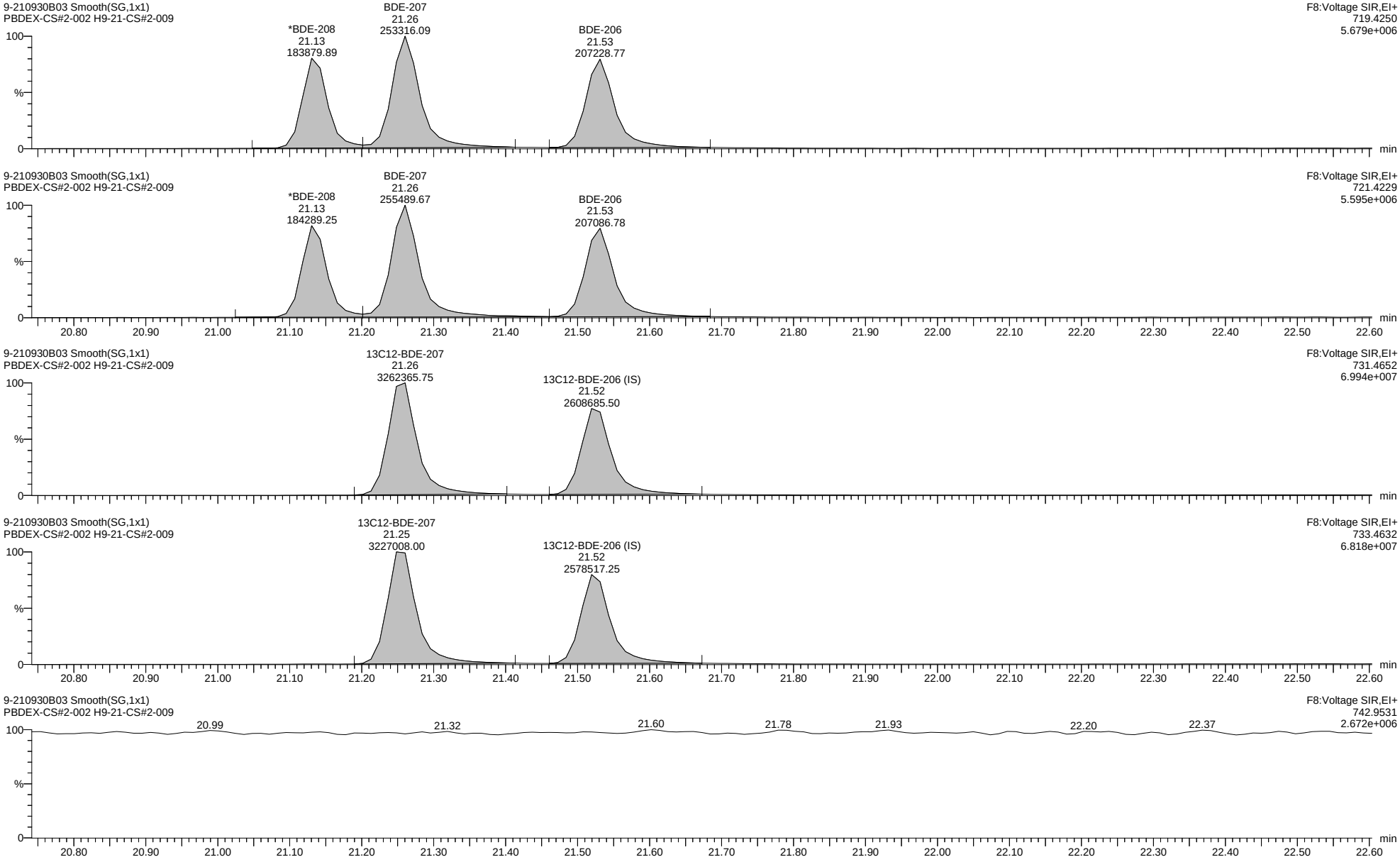

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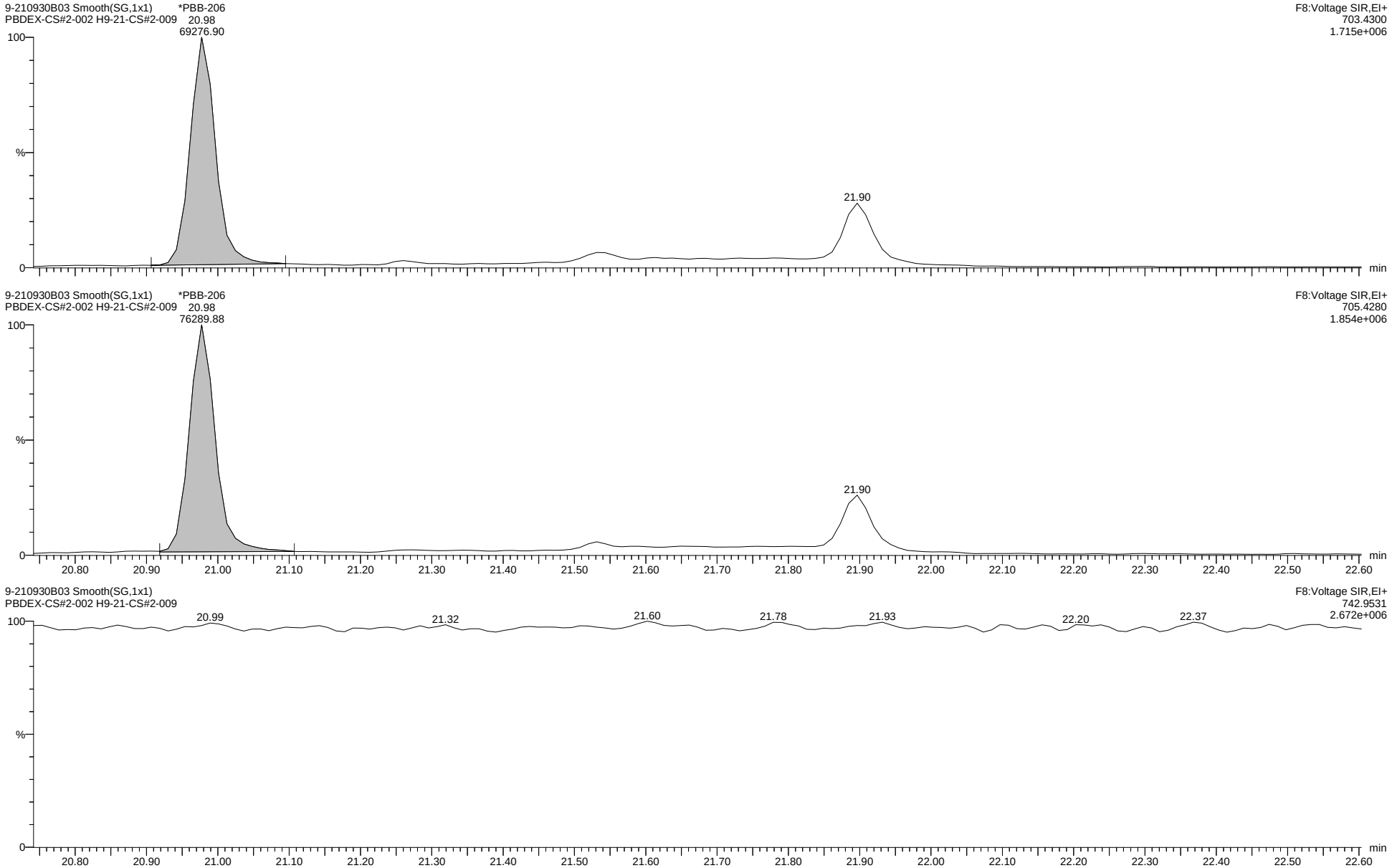

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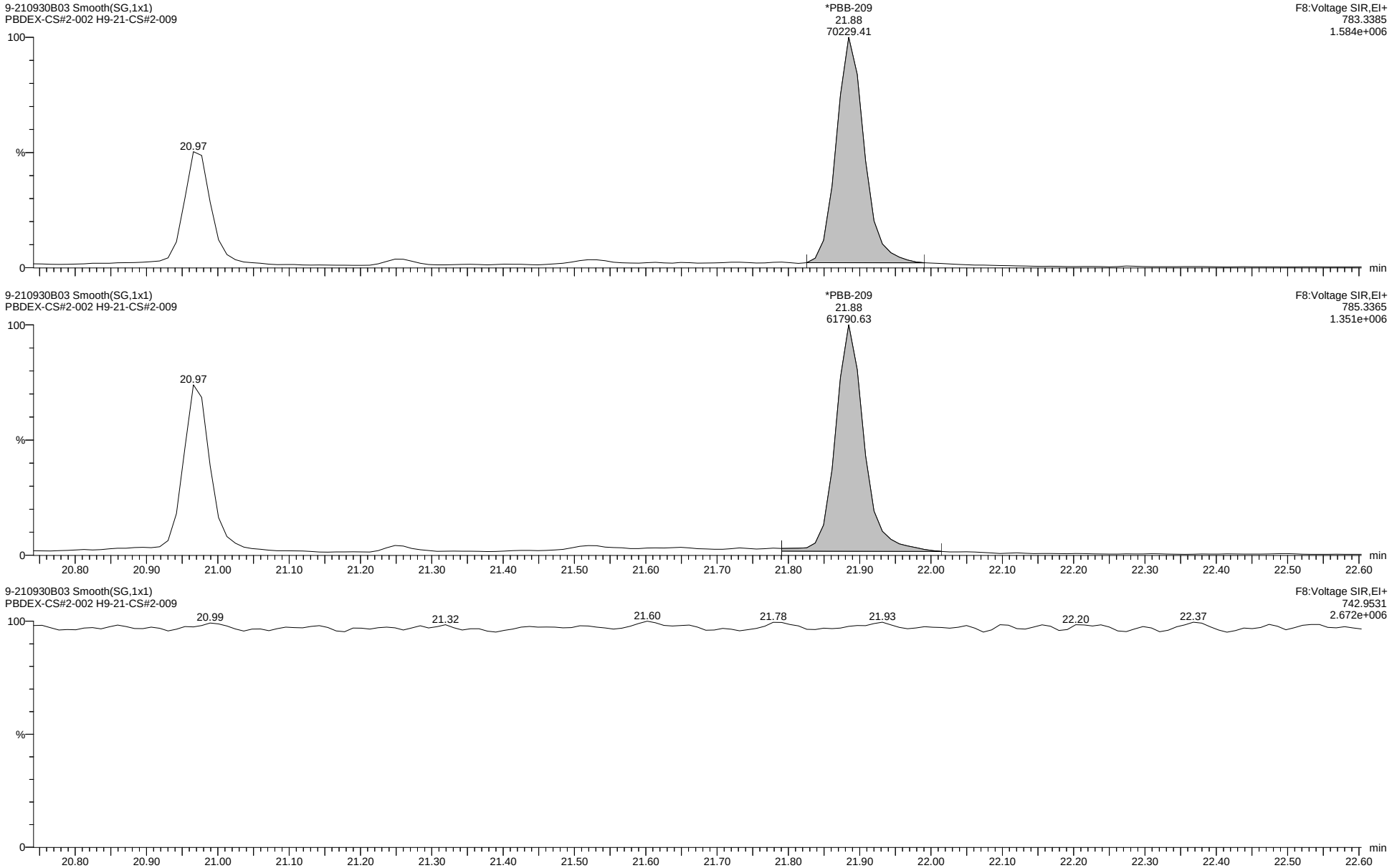

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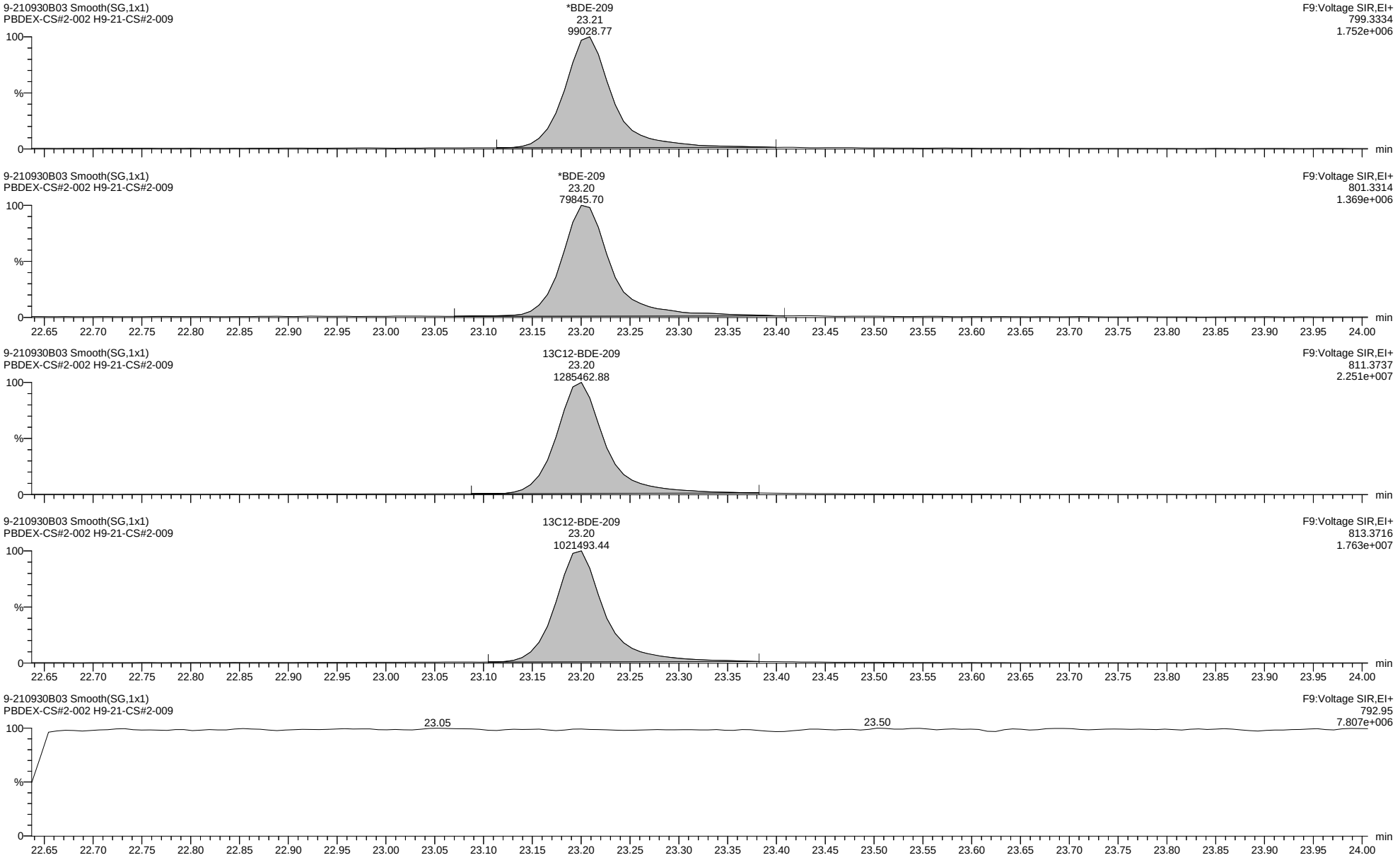

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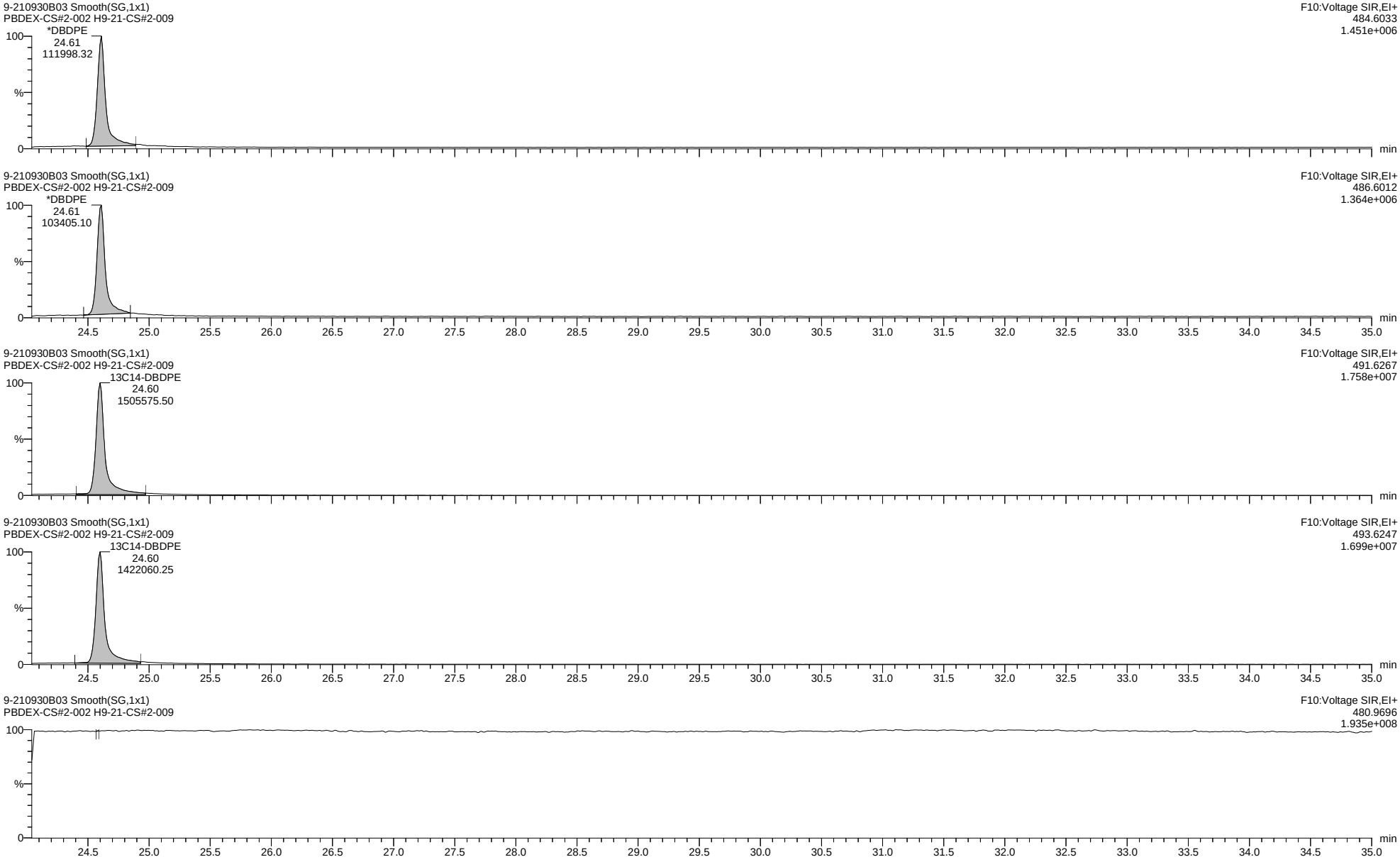

Quantify Sample Template Report **MassLynx MassLynx V4.1 SCN 901**

Dataset: I:\Organics Instrument\HIGHRES GCMS Completed Results Files\HR-9\2109\9-210930B-PBDE-ICAL.qld

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Printed: Thursday, November 18, 2021 10:17:57 Eastern Standard Time

Method: C:\MassLynx\PBDE.PRO\Methods\PBDEX-DB5-1-210930B.mdb 28 Sep 2021 13:06:19
Calibration: C:\MassLynx\PBDE.PRO\CurveDB\9-210930B-PBDEX-ICAL.cdb 01 Oct 2021 10:18:22

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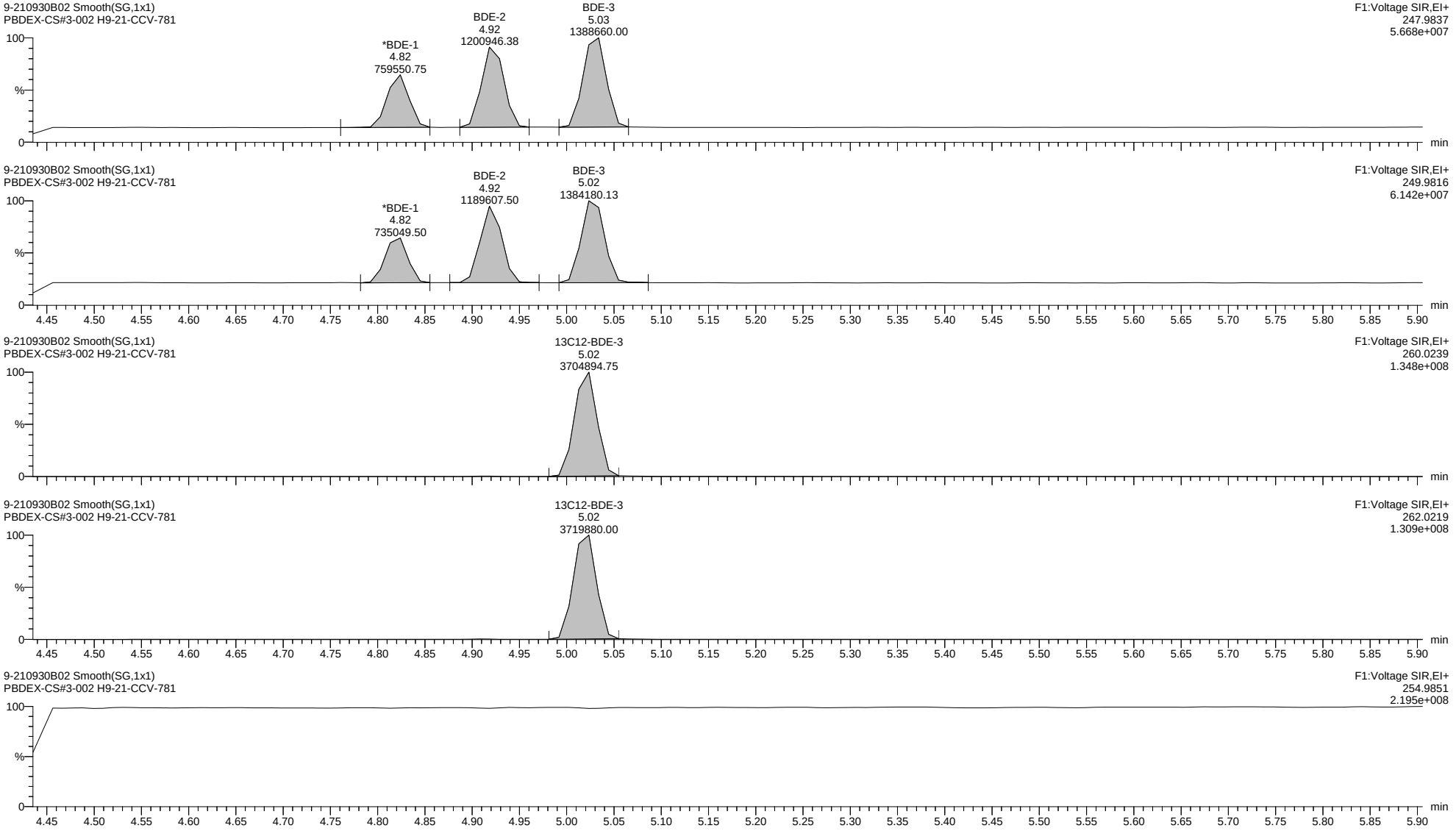

Quantify Sample Template Report **MassLynx MassLynx V4.1 SCN 901**

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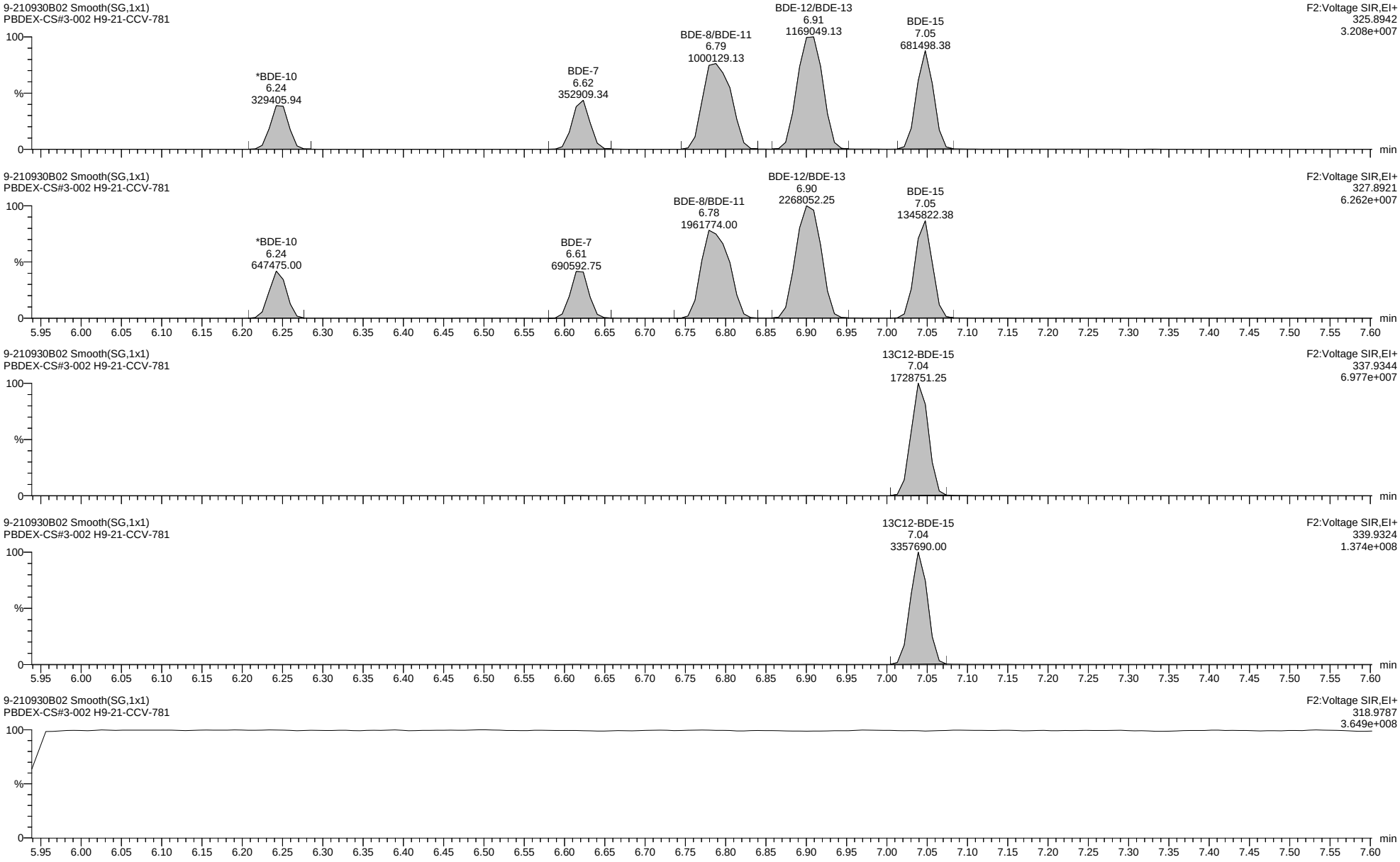

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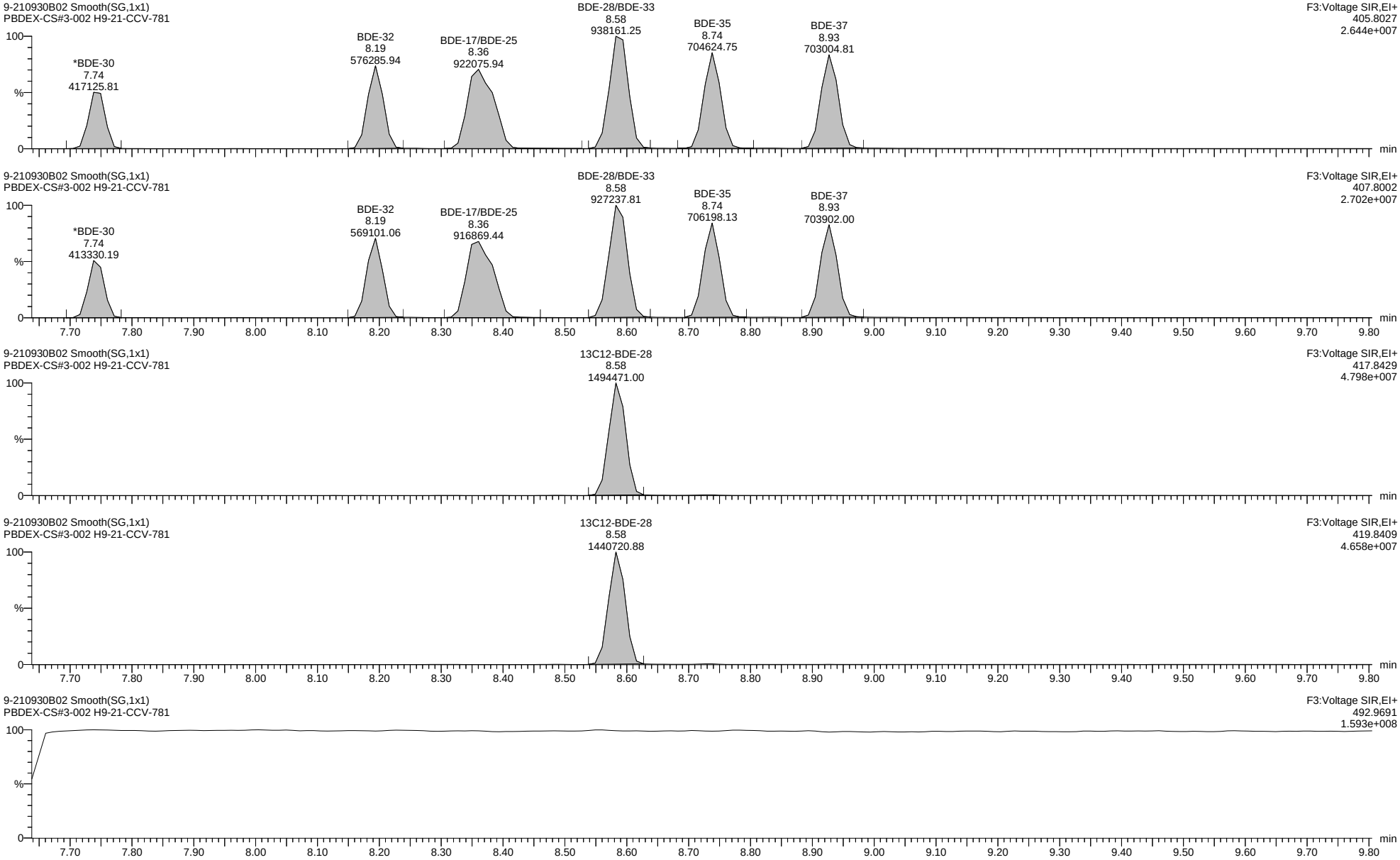

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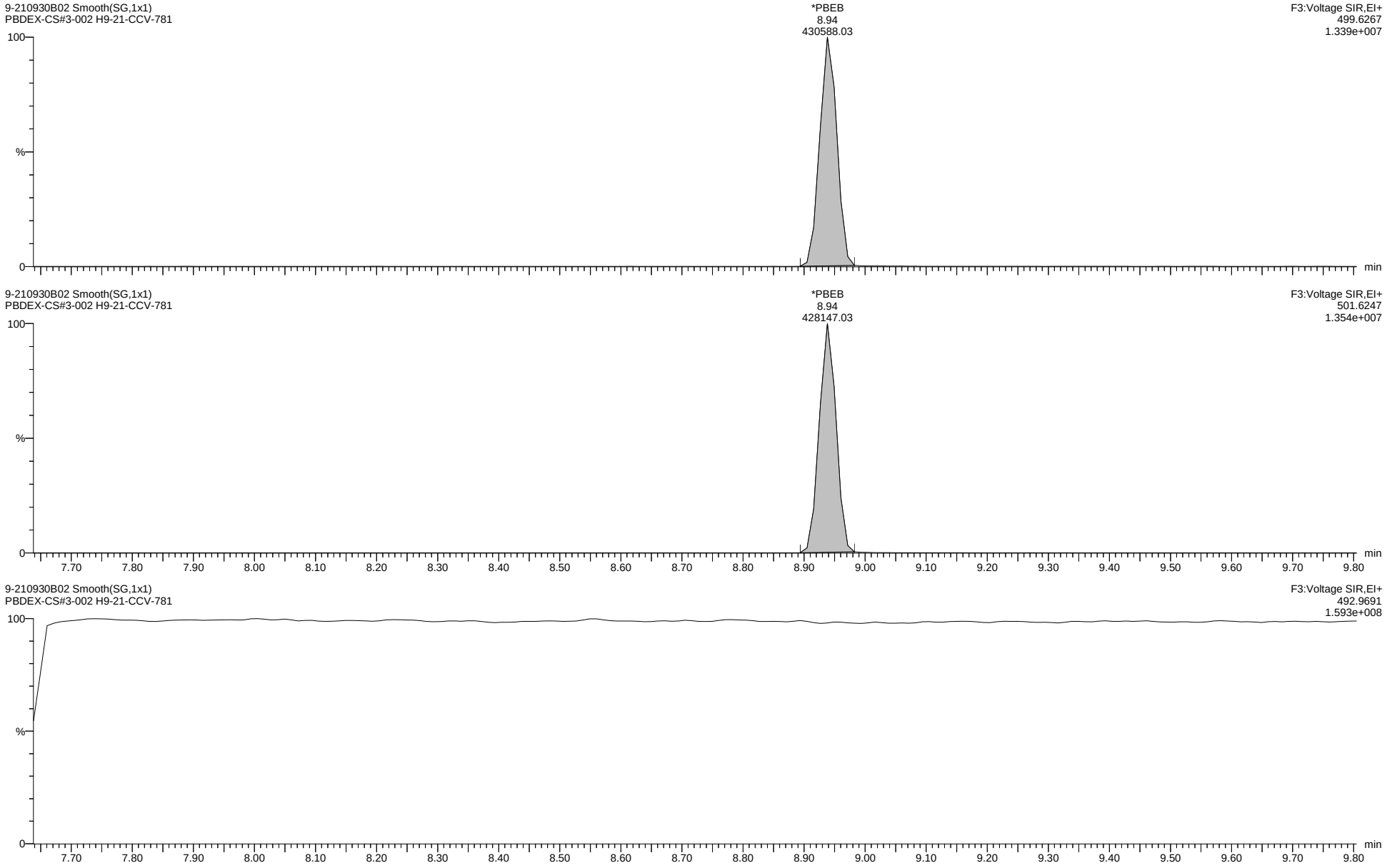

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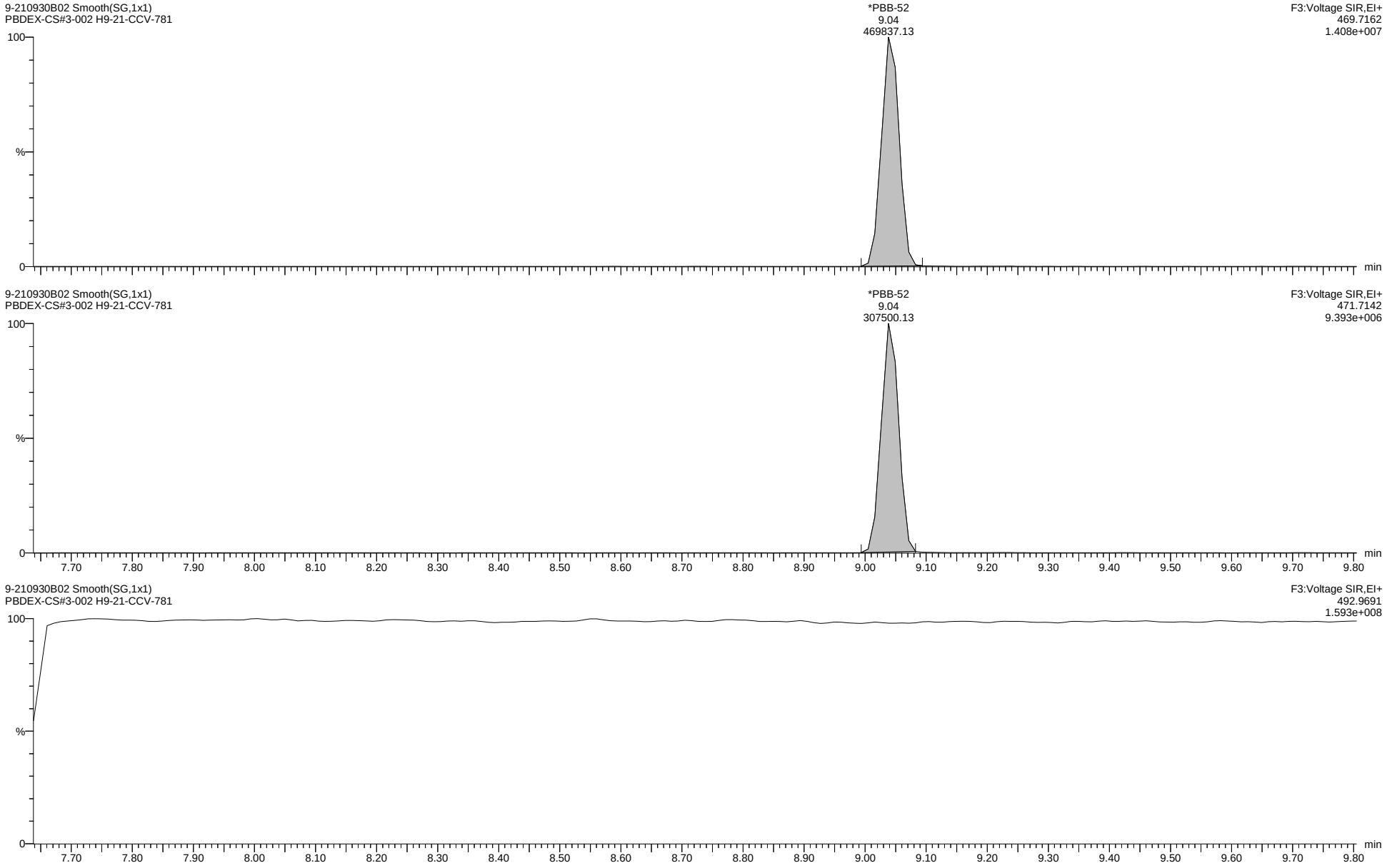

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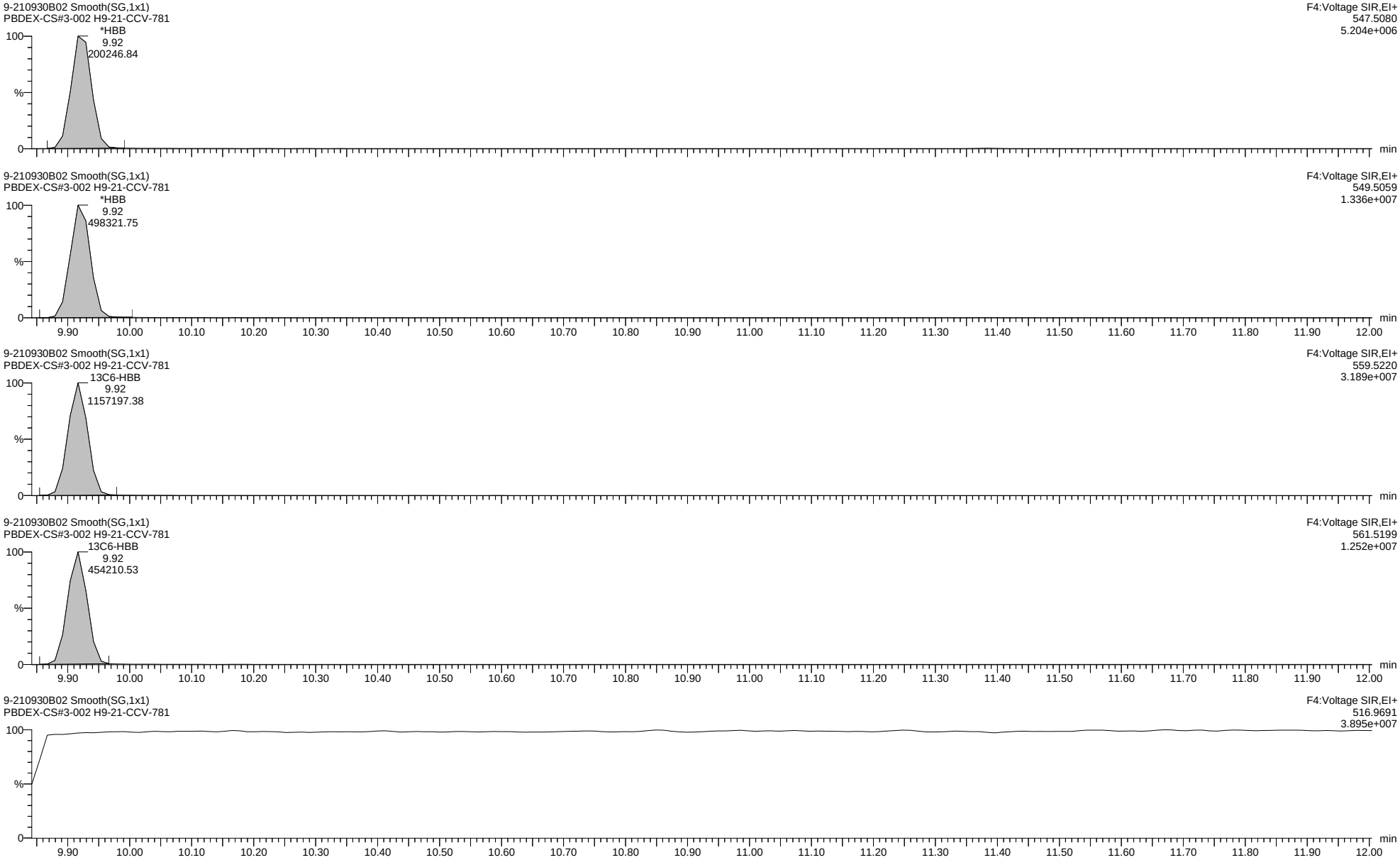

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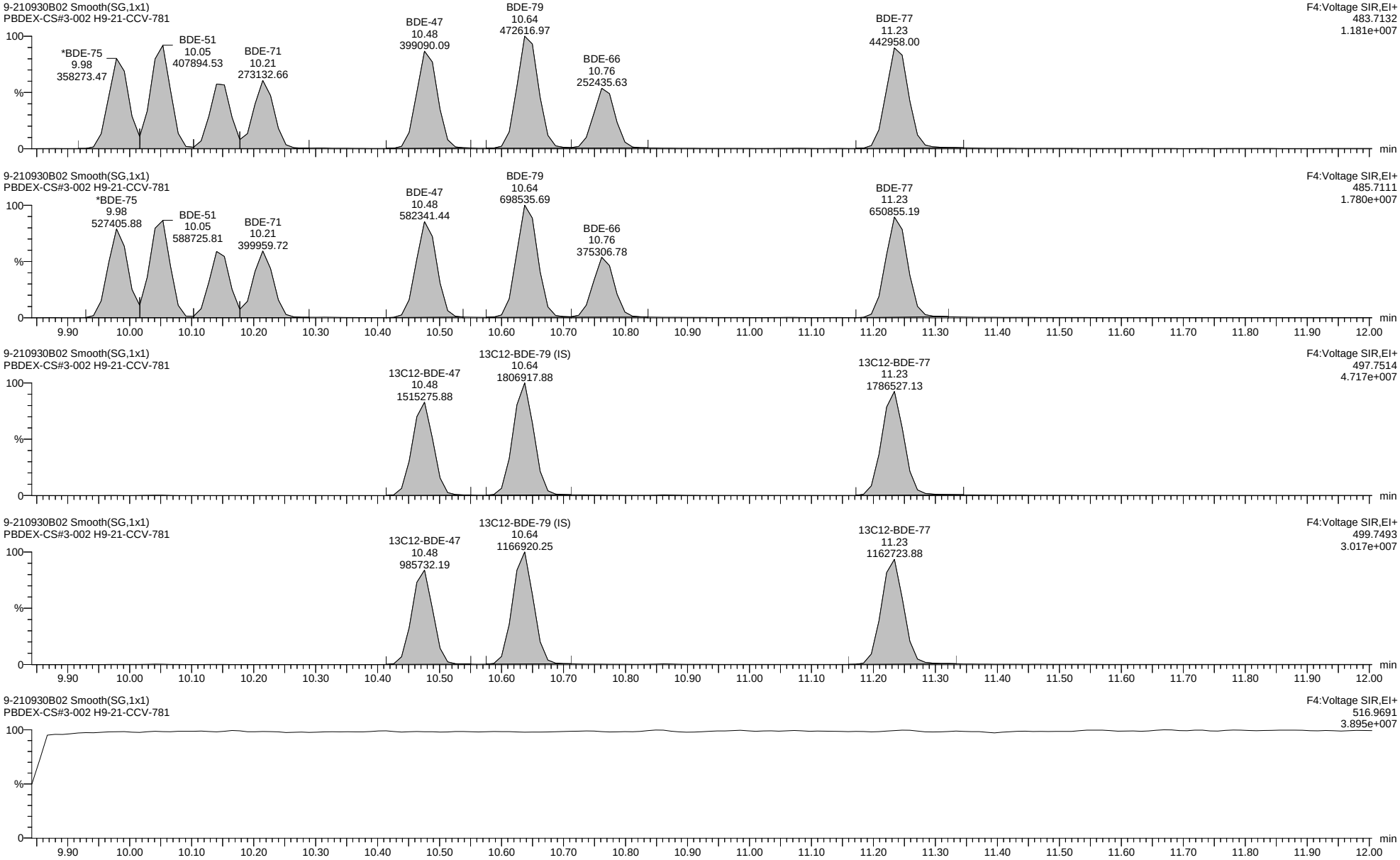

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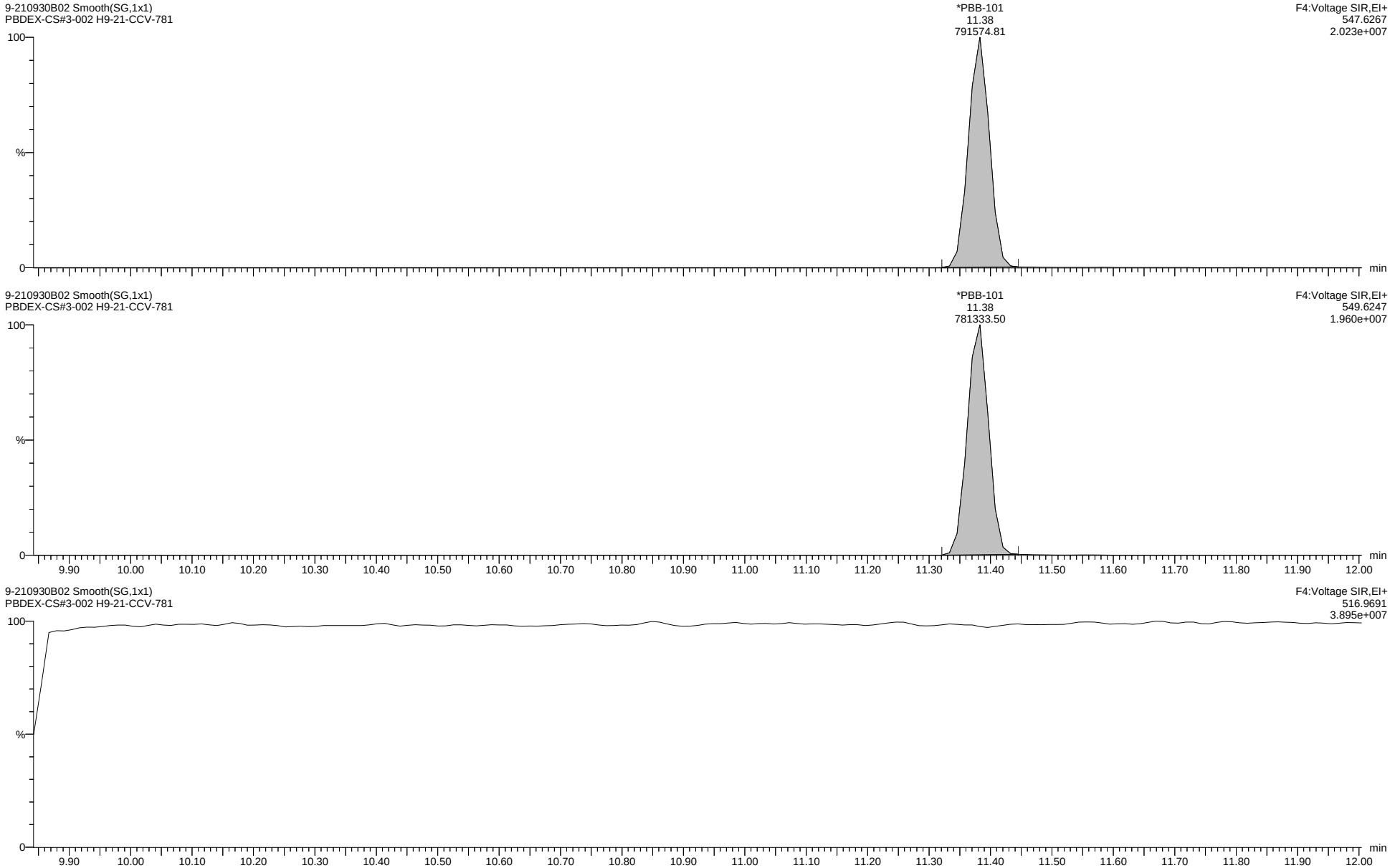

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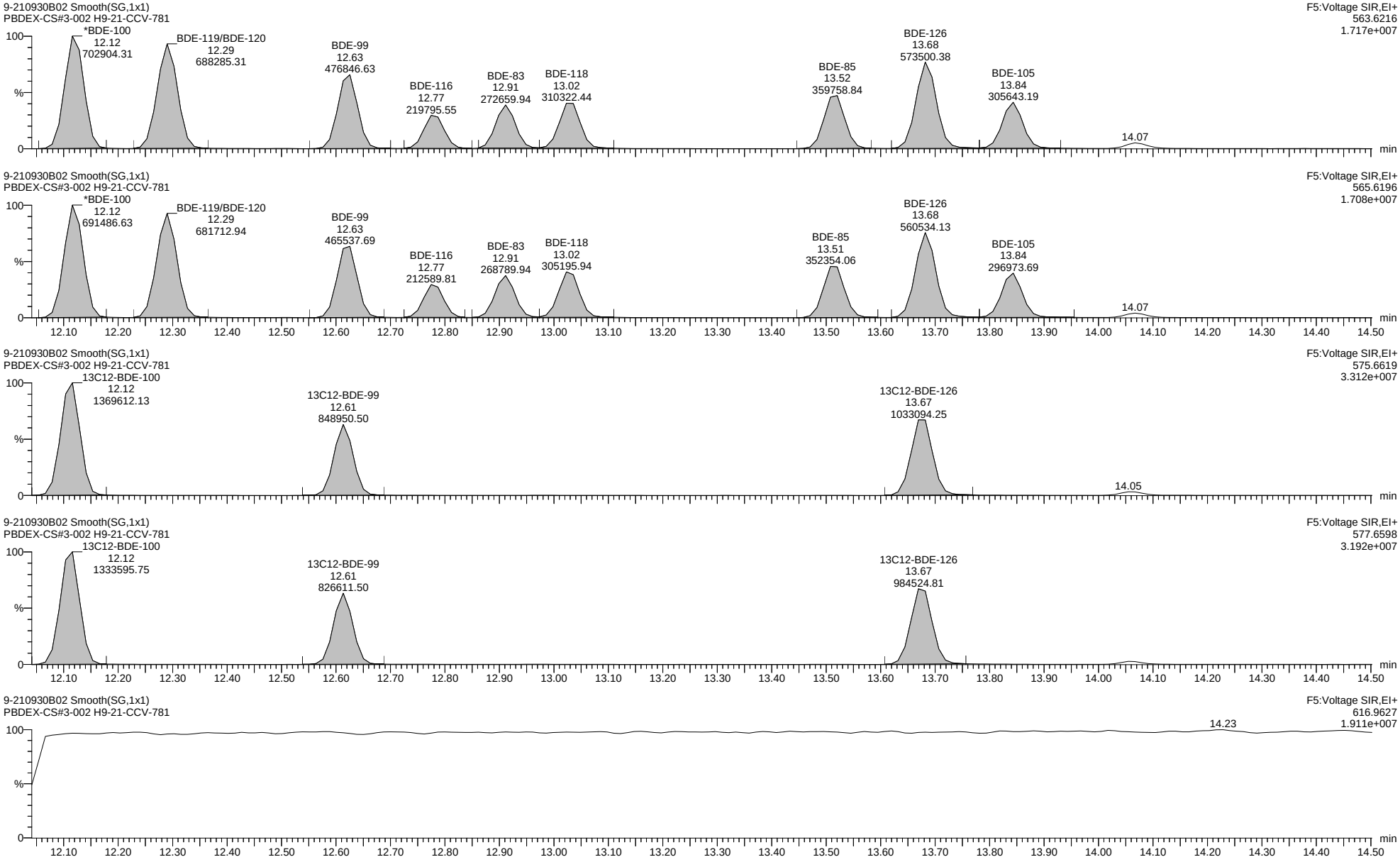

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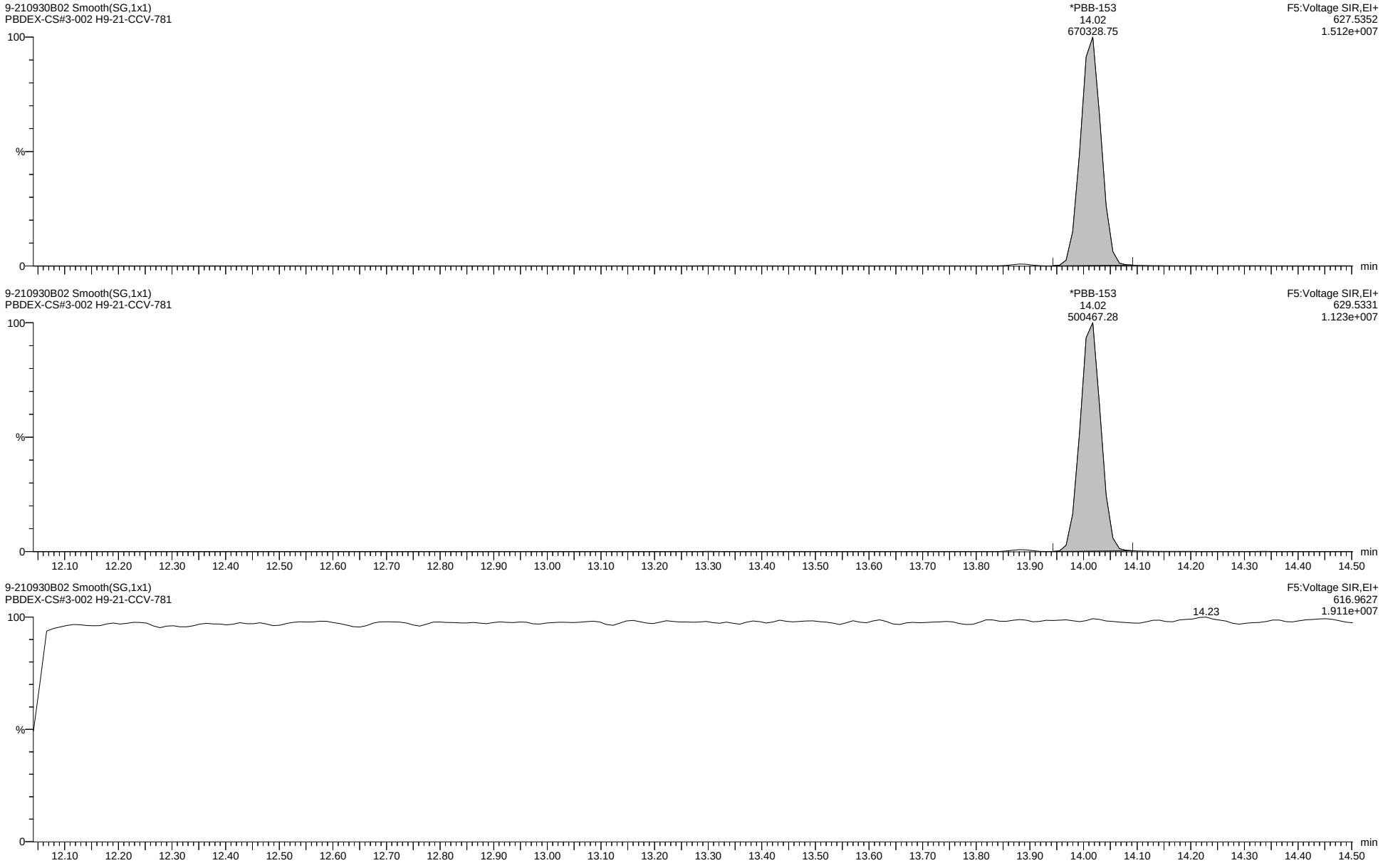

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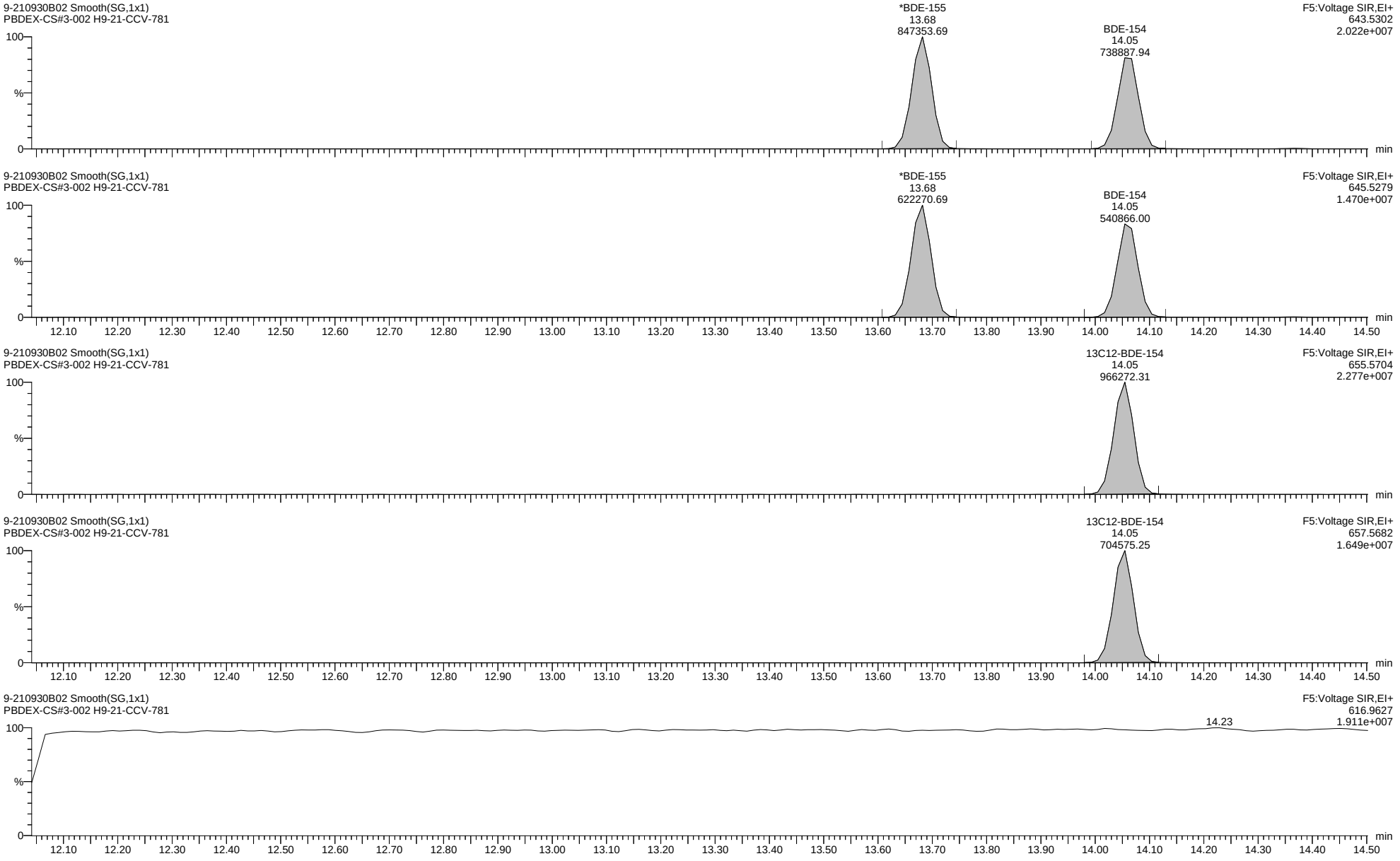

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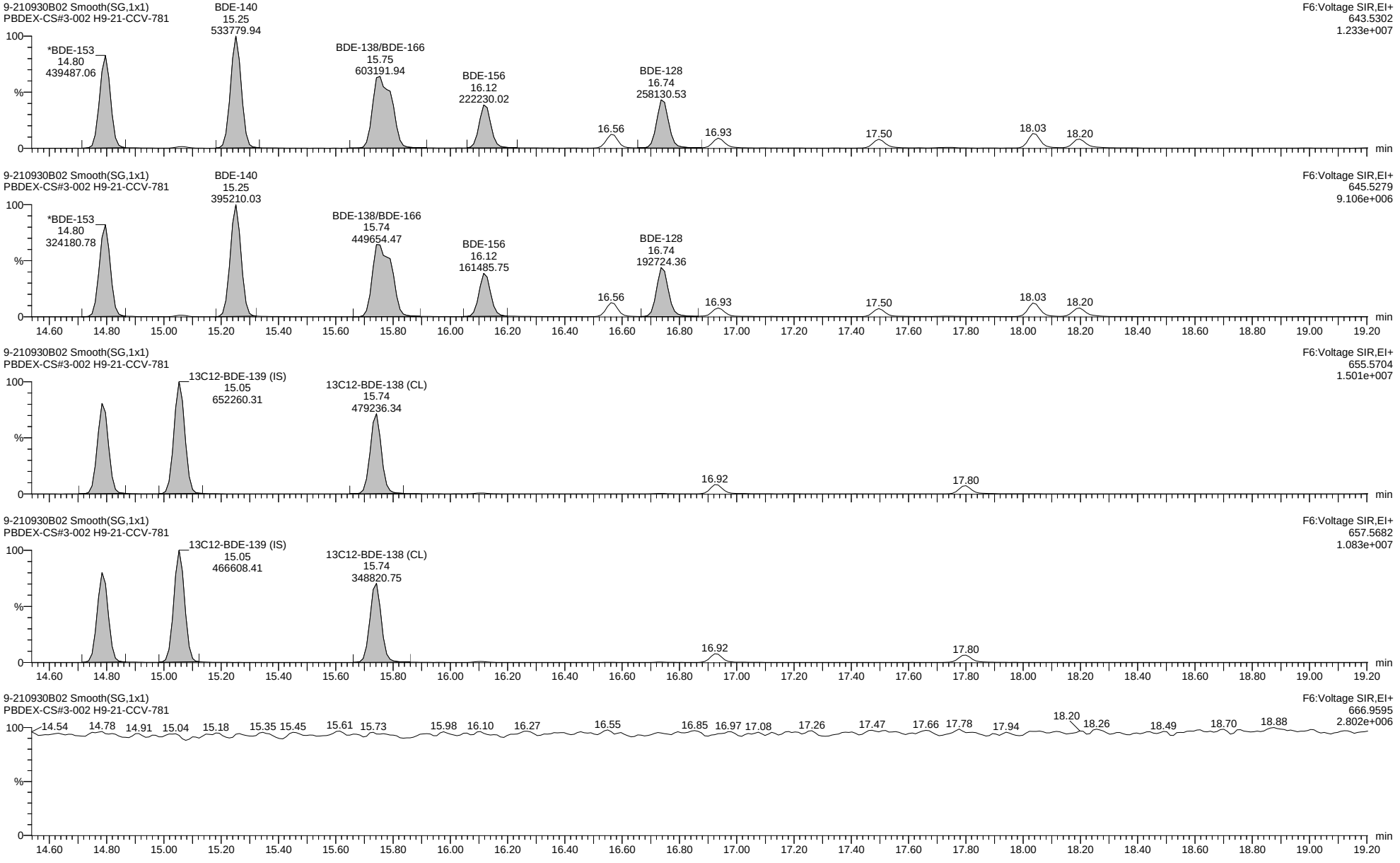

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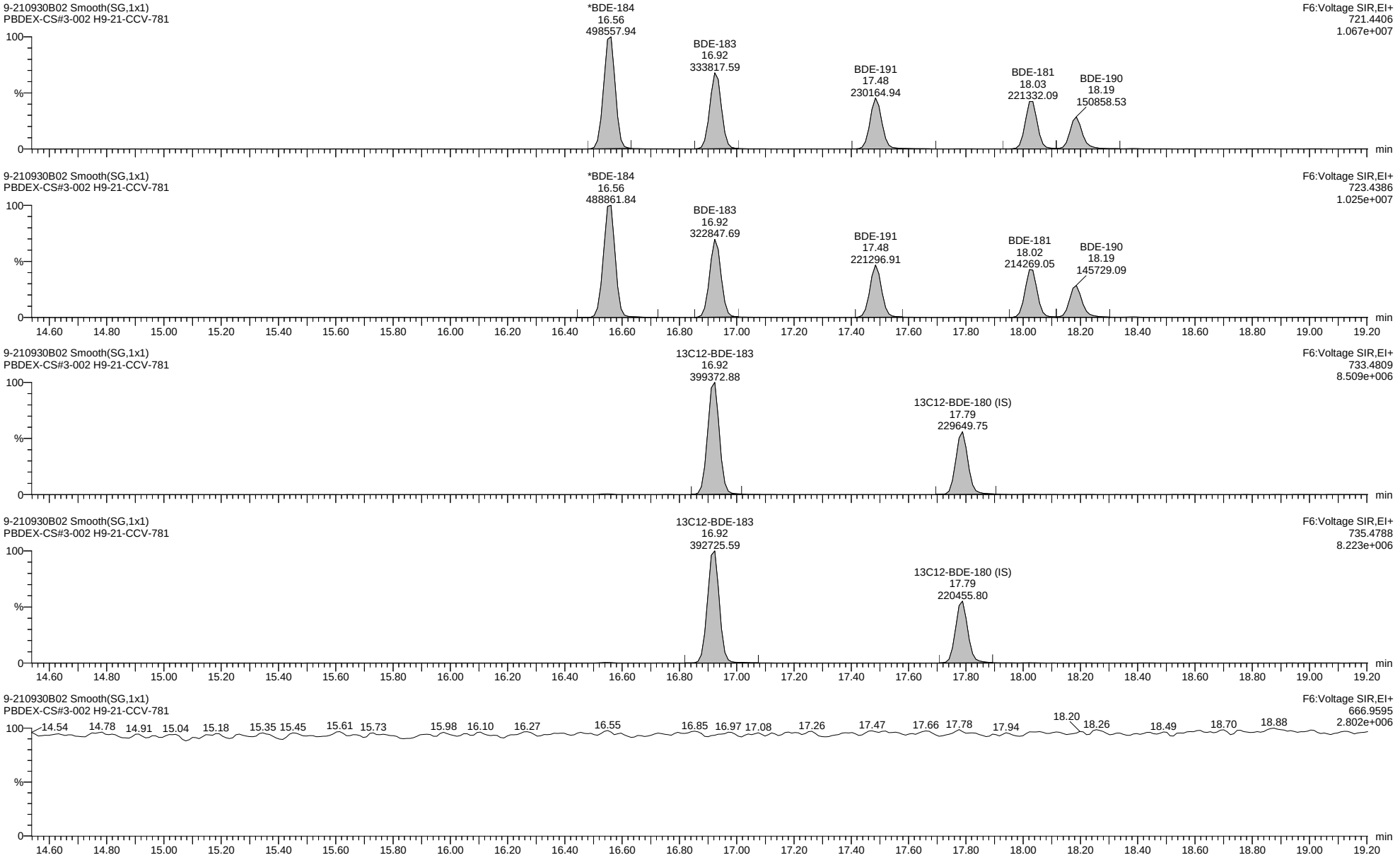

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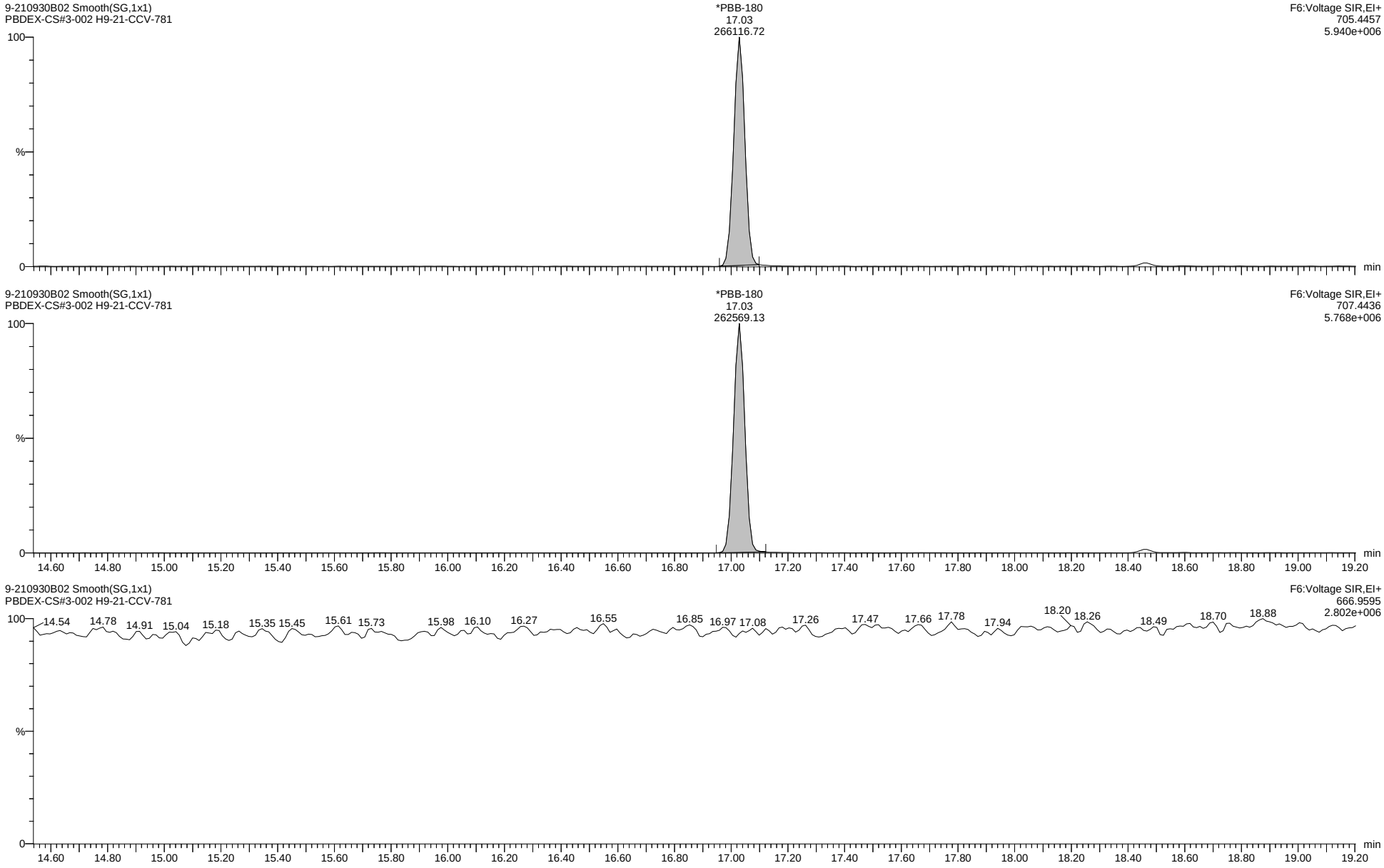

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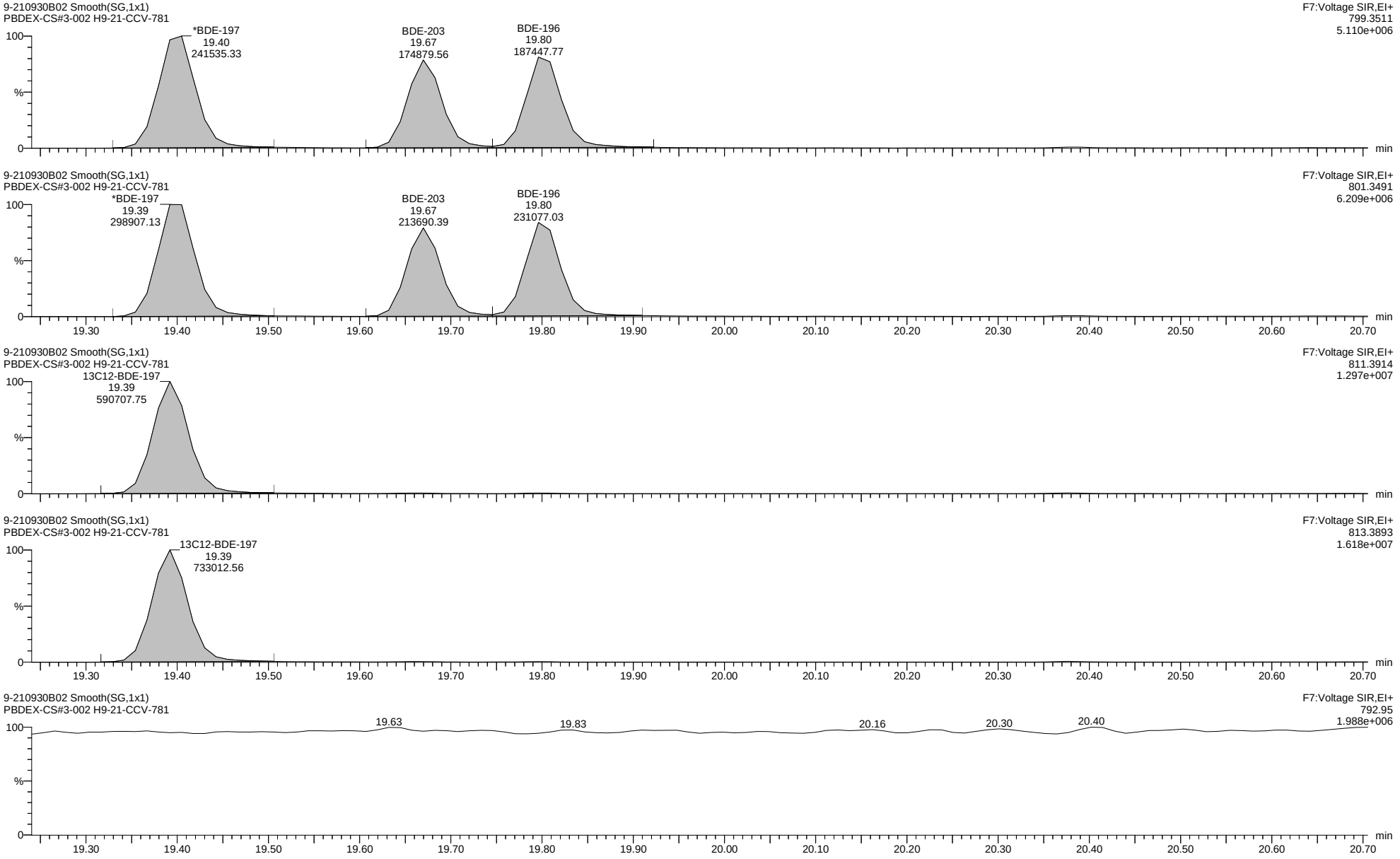

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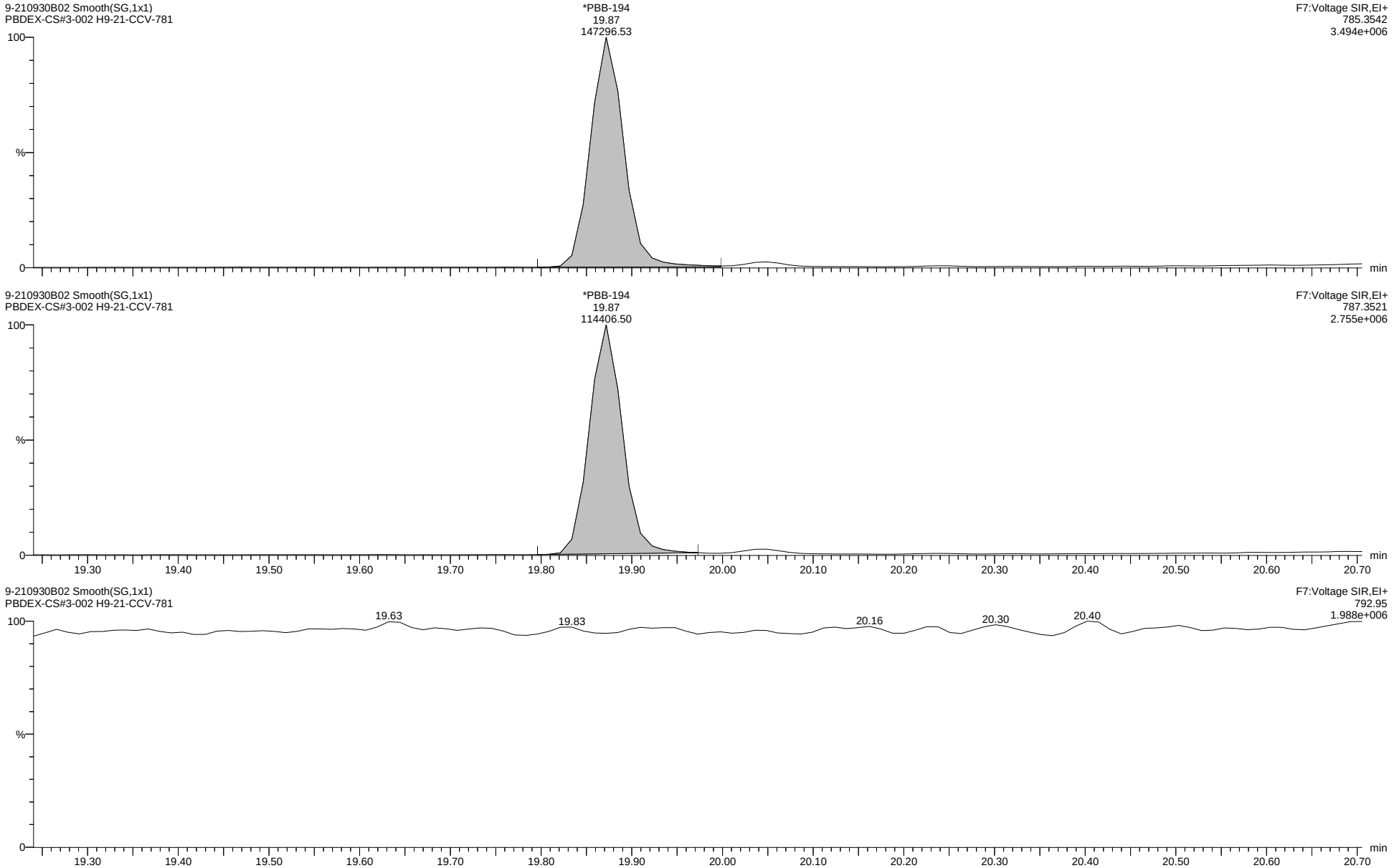

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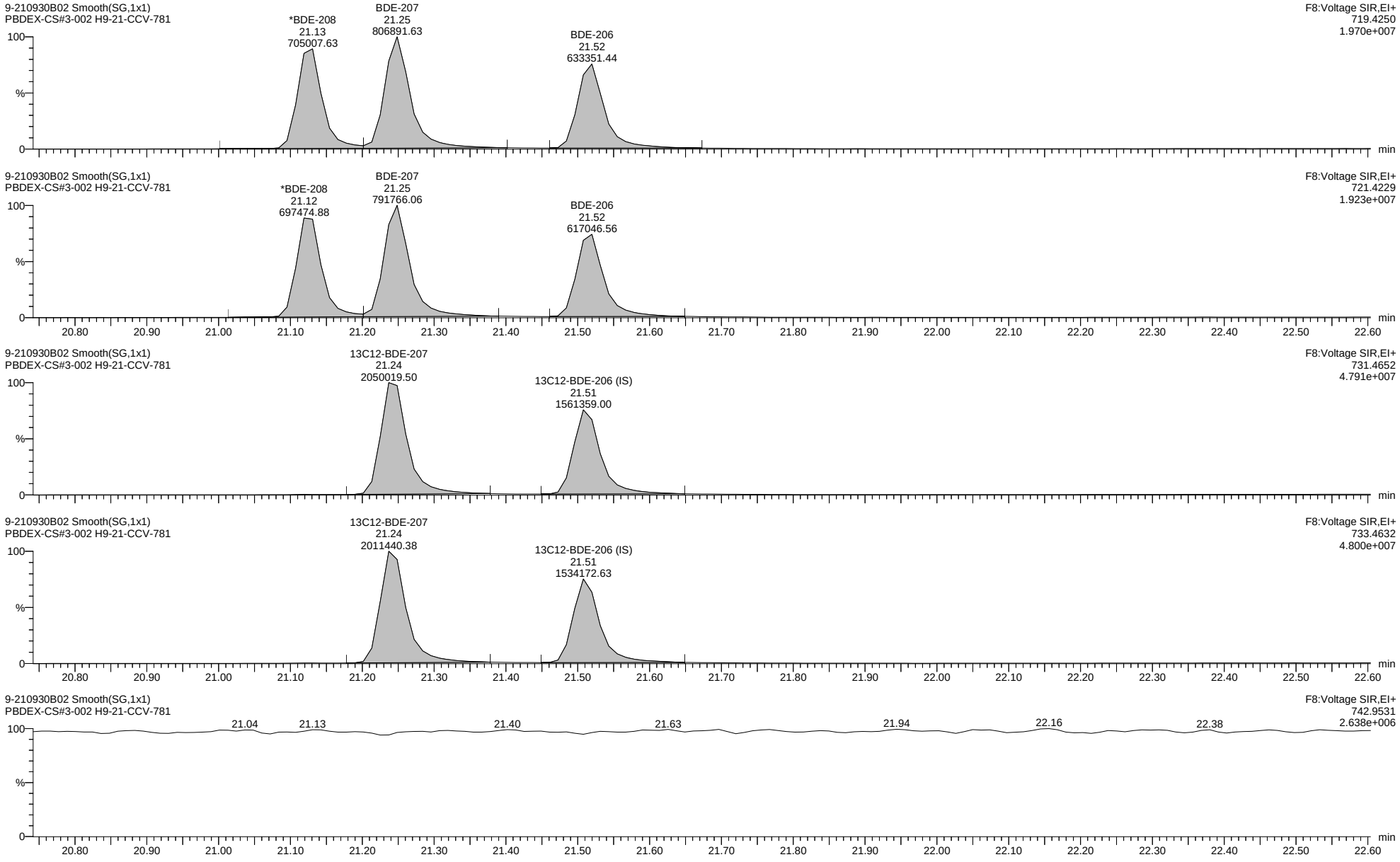

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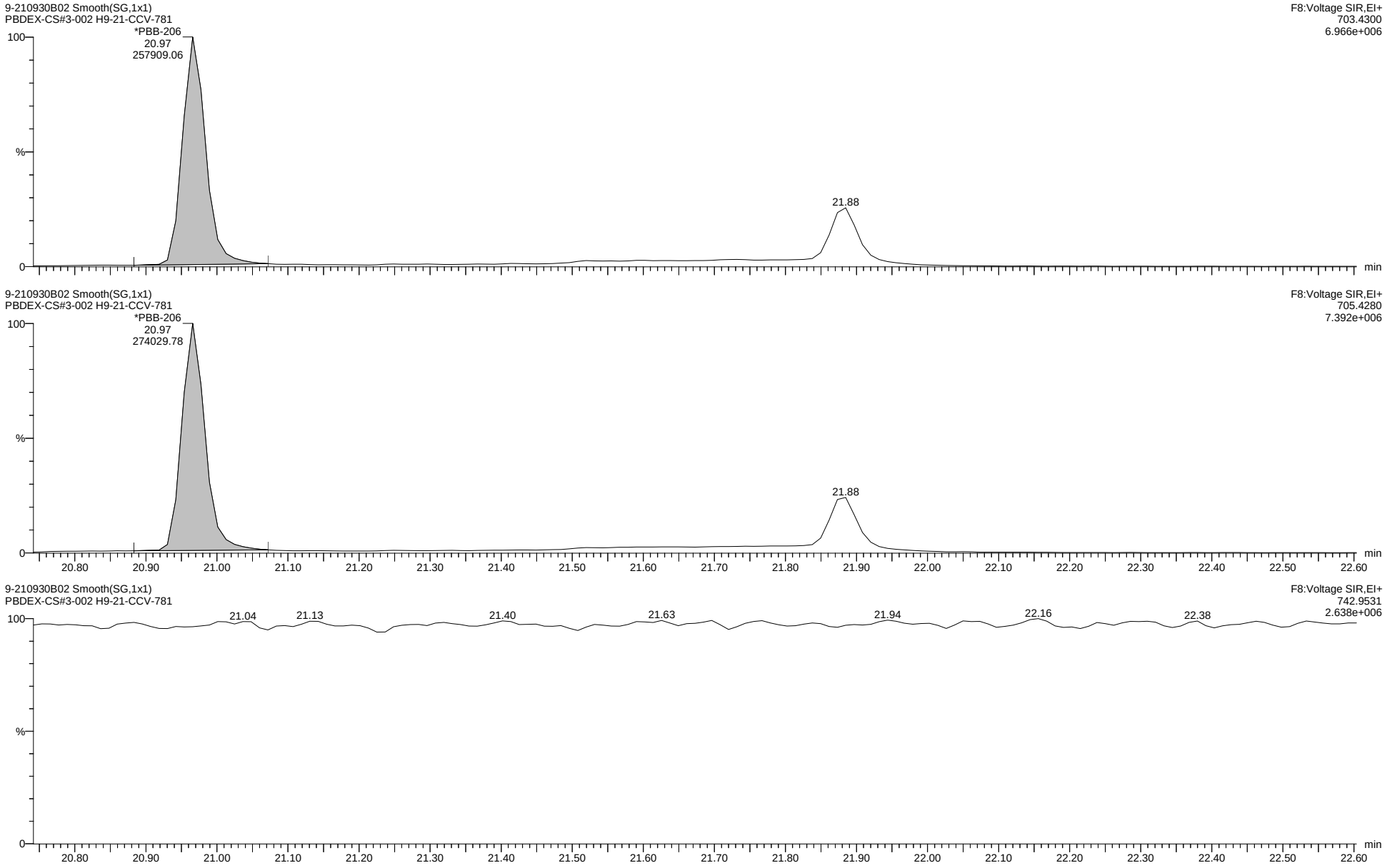

Dataset: I:\Organics Instrument\HIGHRES GCMS Completed Results Files\HR-9\2109\9-210930B-PBDE-ICAL.qld

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Printed: Thursday, November 18, 2021 10:17:57 Eastern Standard Time

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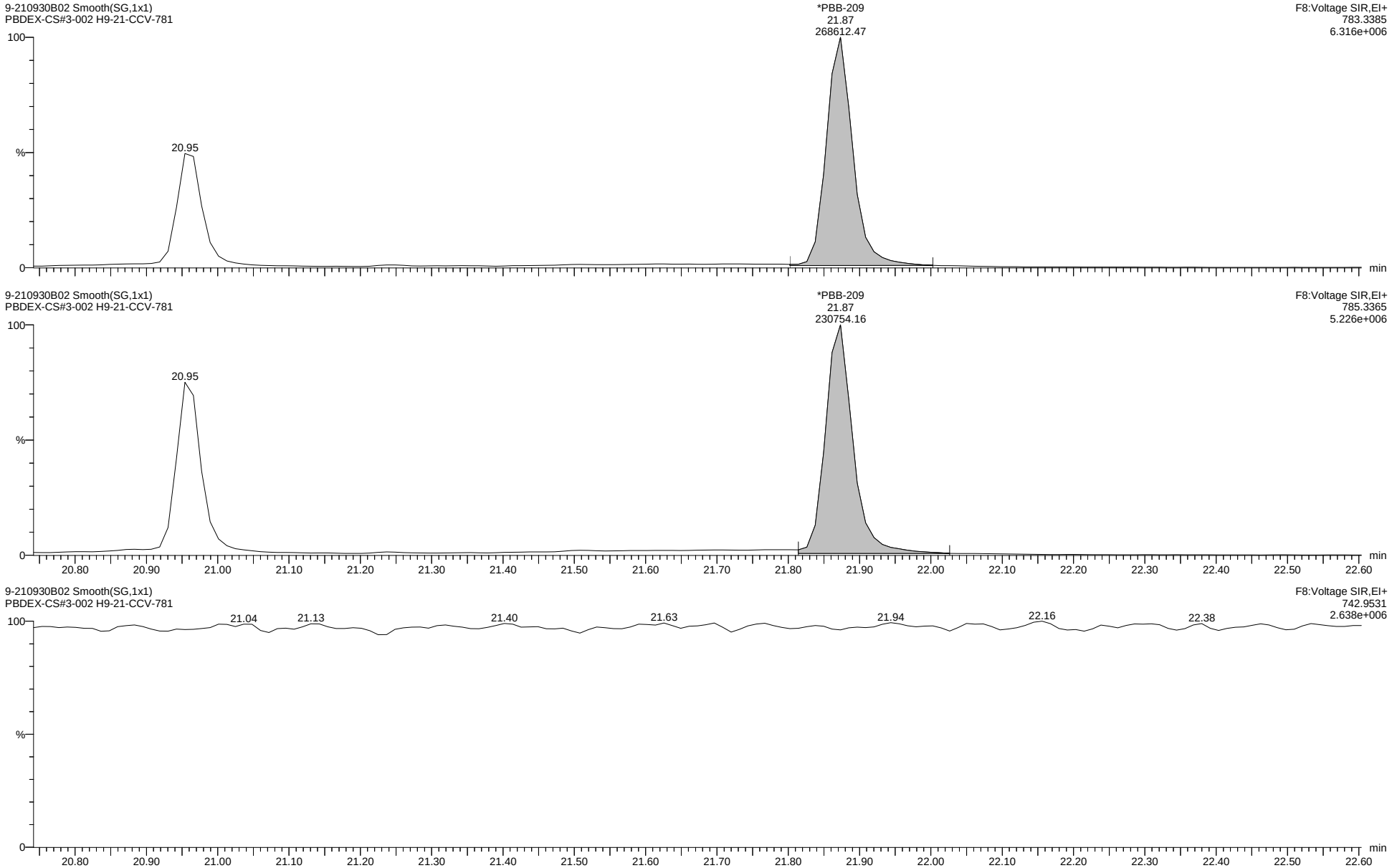

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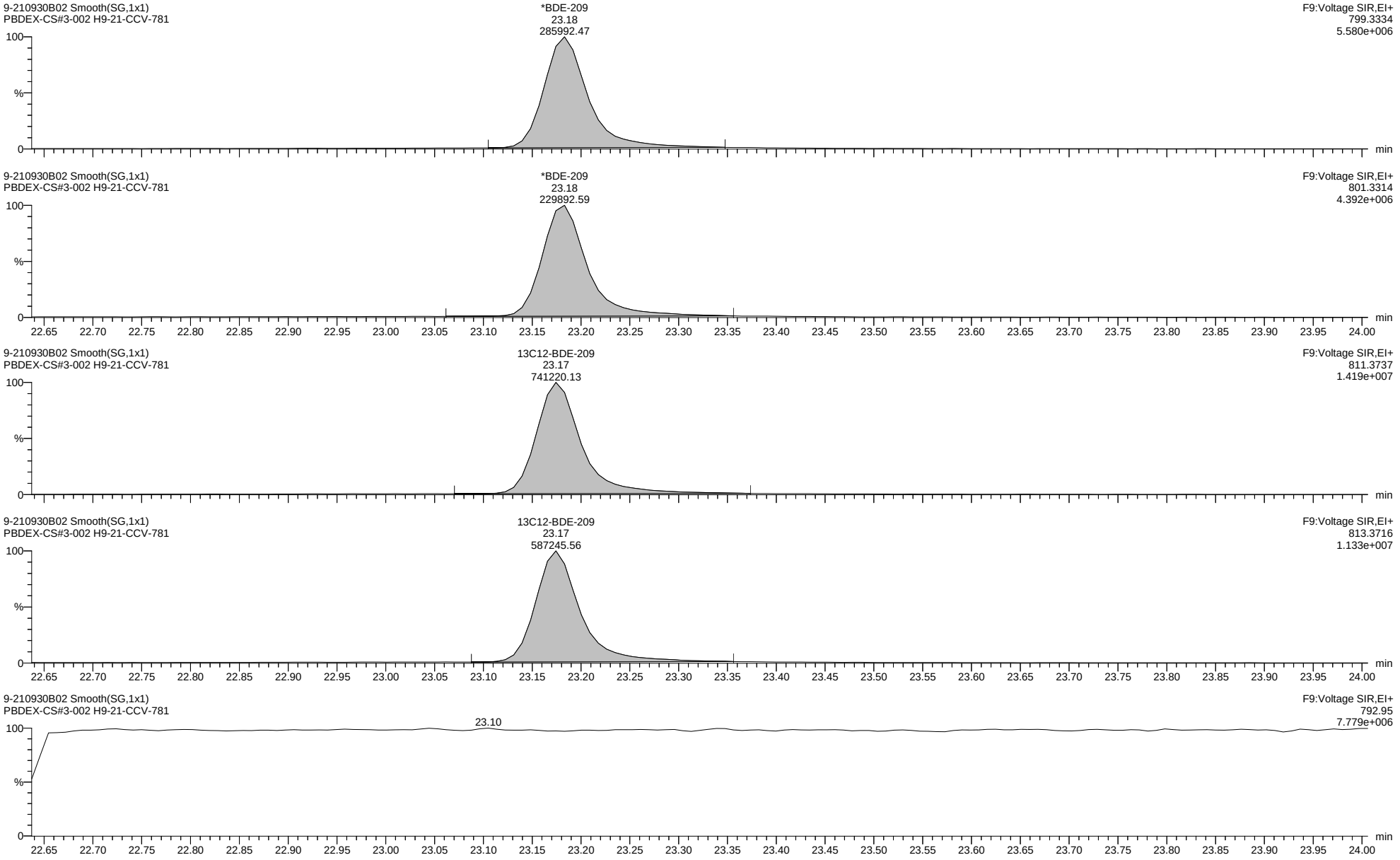

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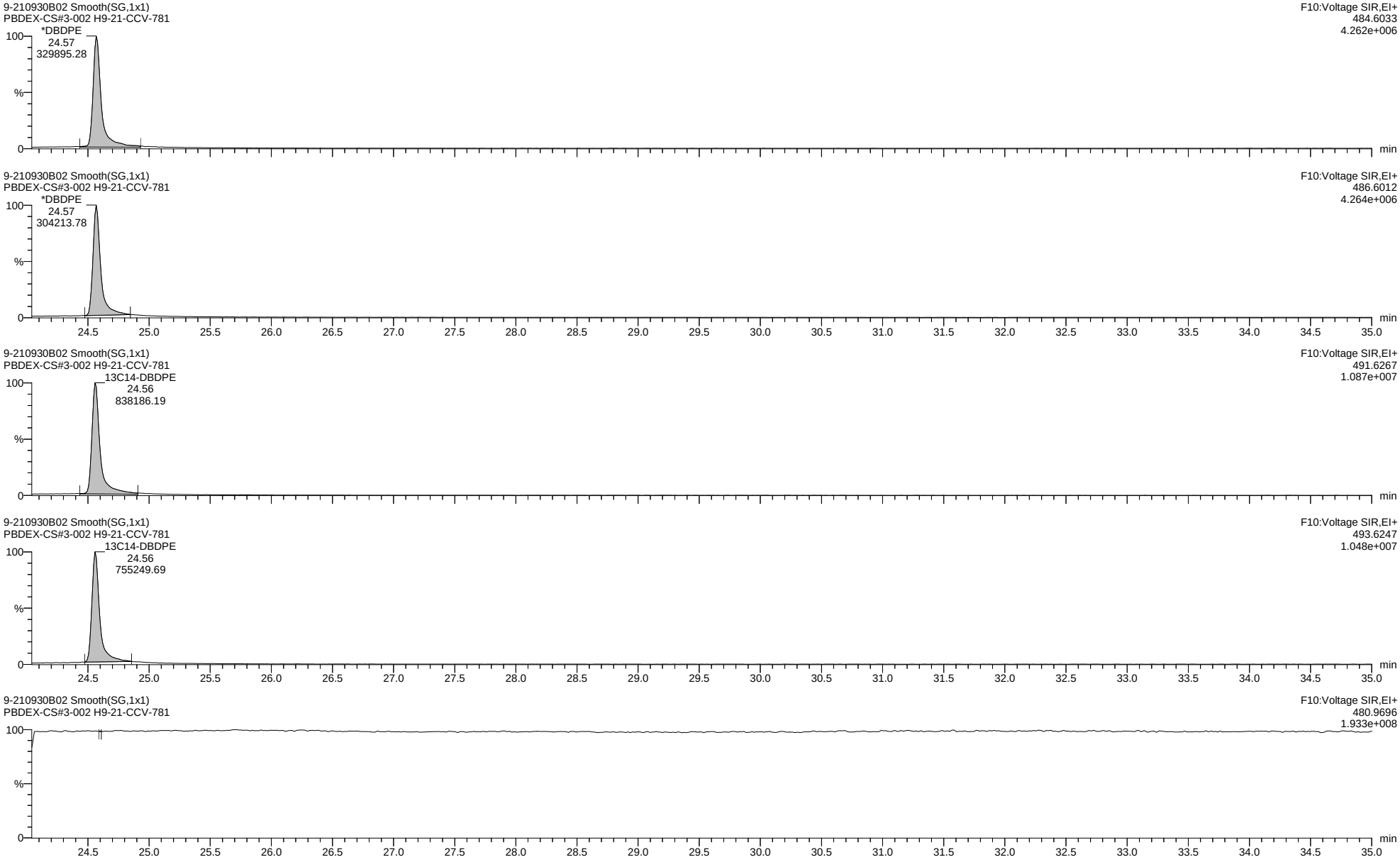

Quantify Sample Template Report **MassLynx MassLynx V4.1 SCN 901**

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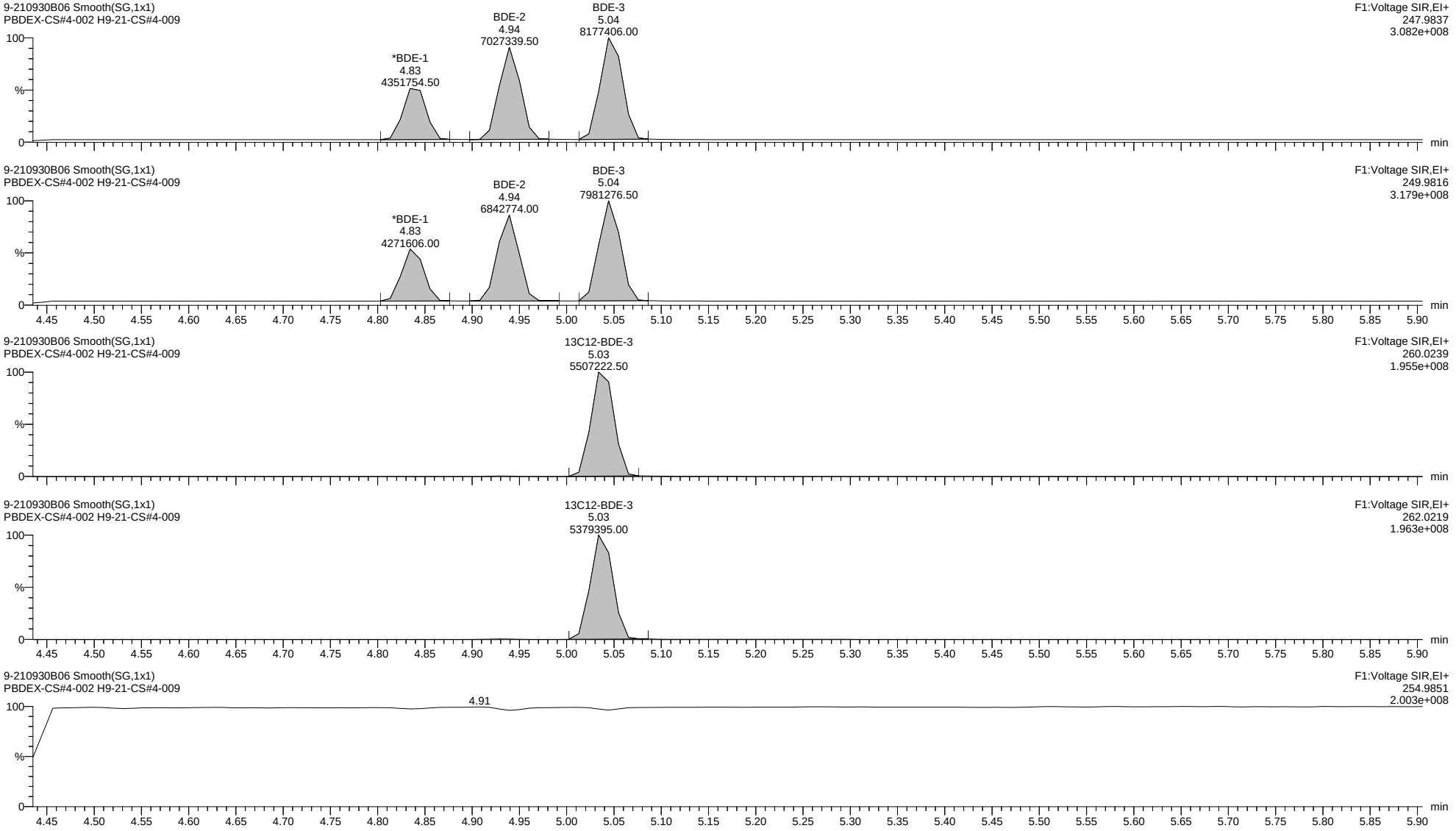
Name: 9-210930B06, Date: 30-Sep-2021, Time: 19:20:36, ID: H9-21-CS#4-009, Description: PBDEX-CS#4-002, Vial: Tray1:45



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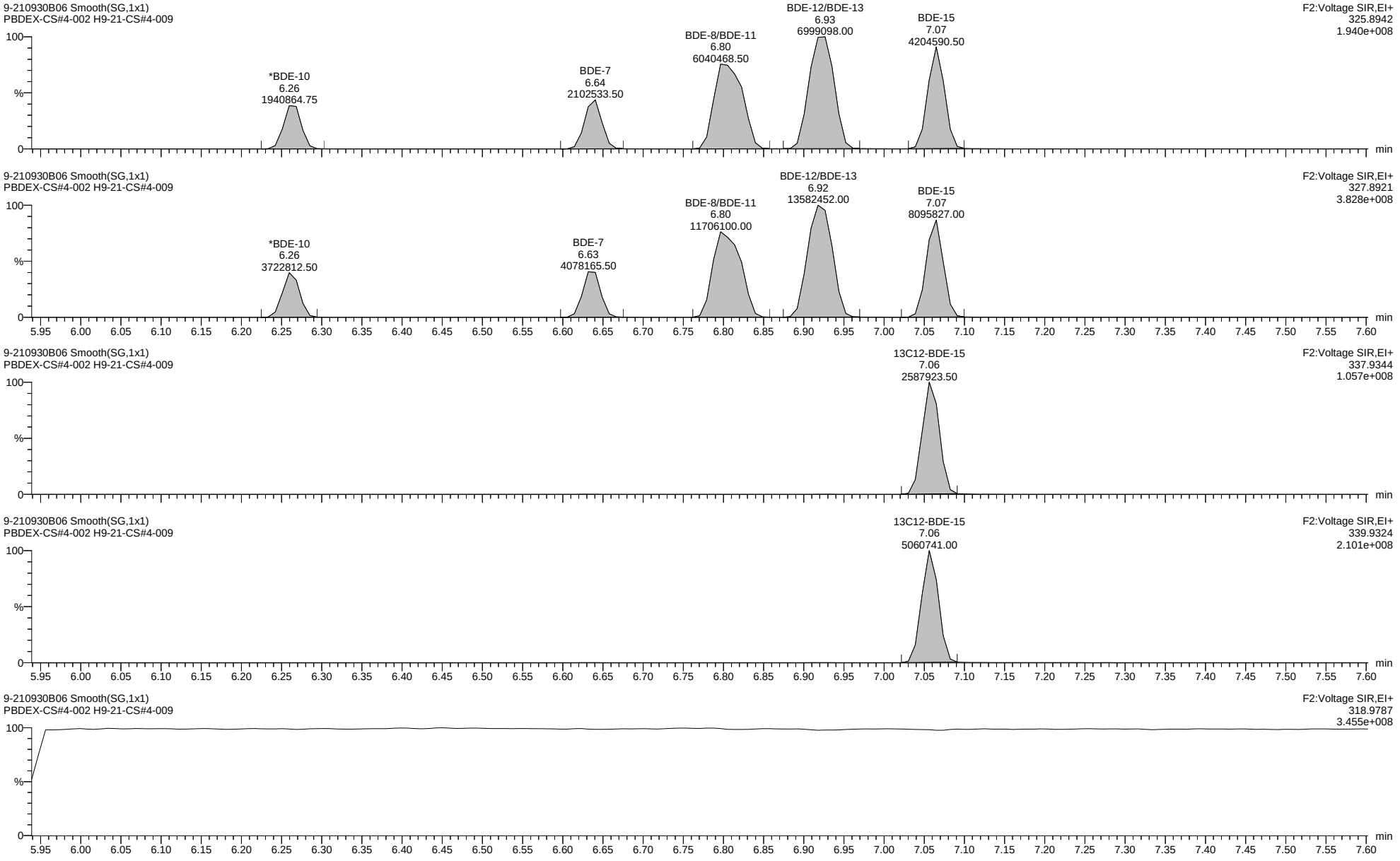

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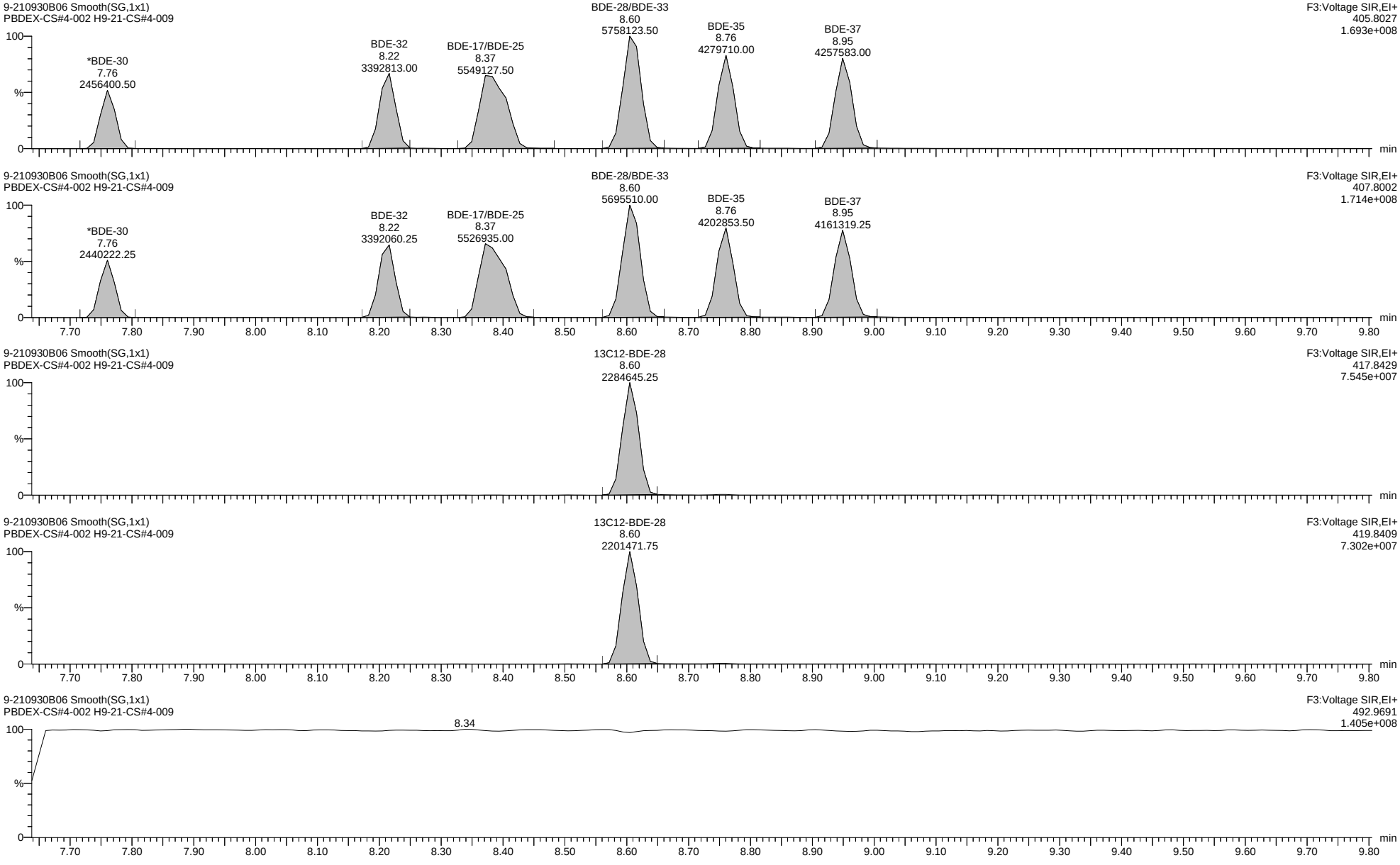

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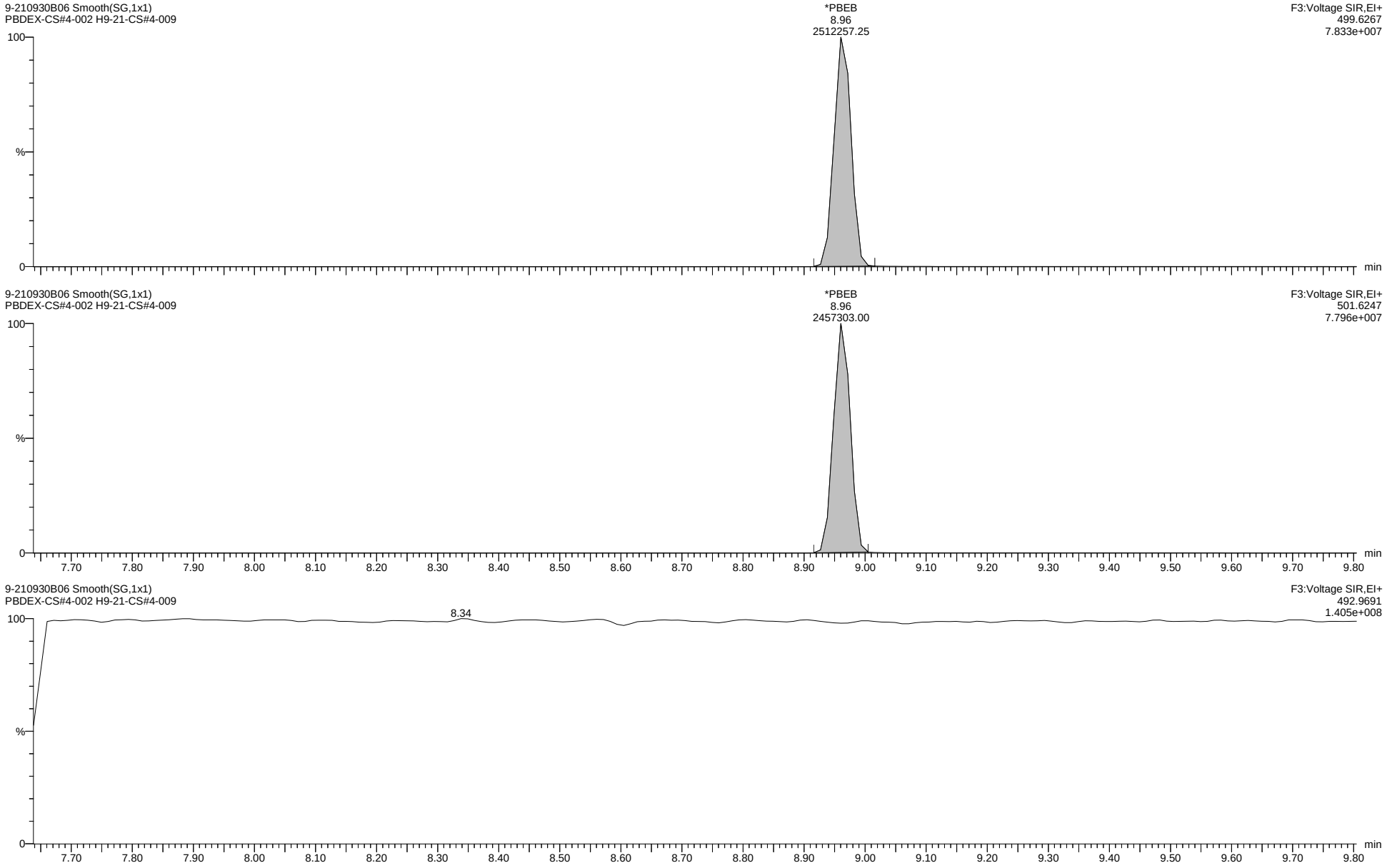

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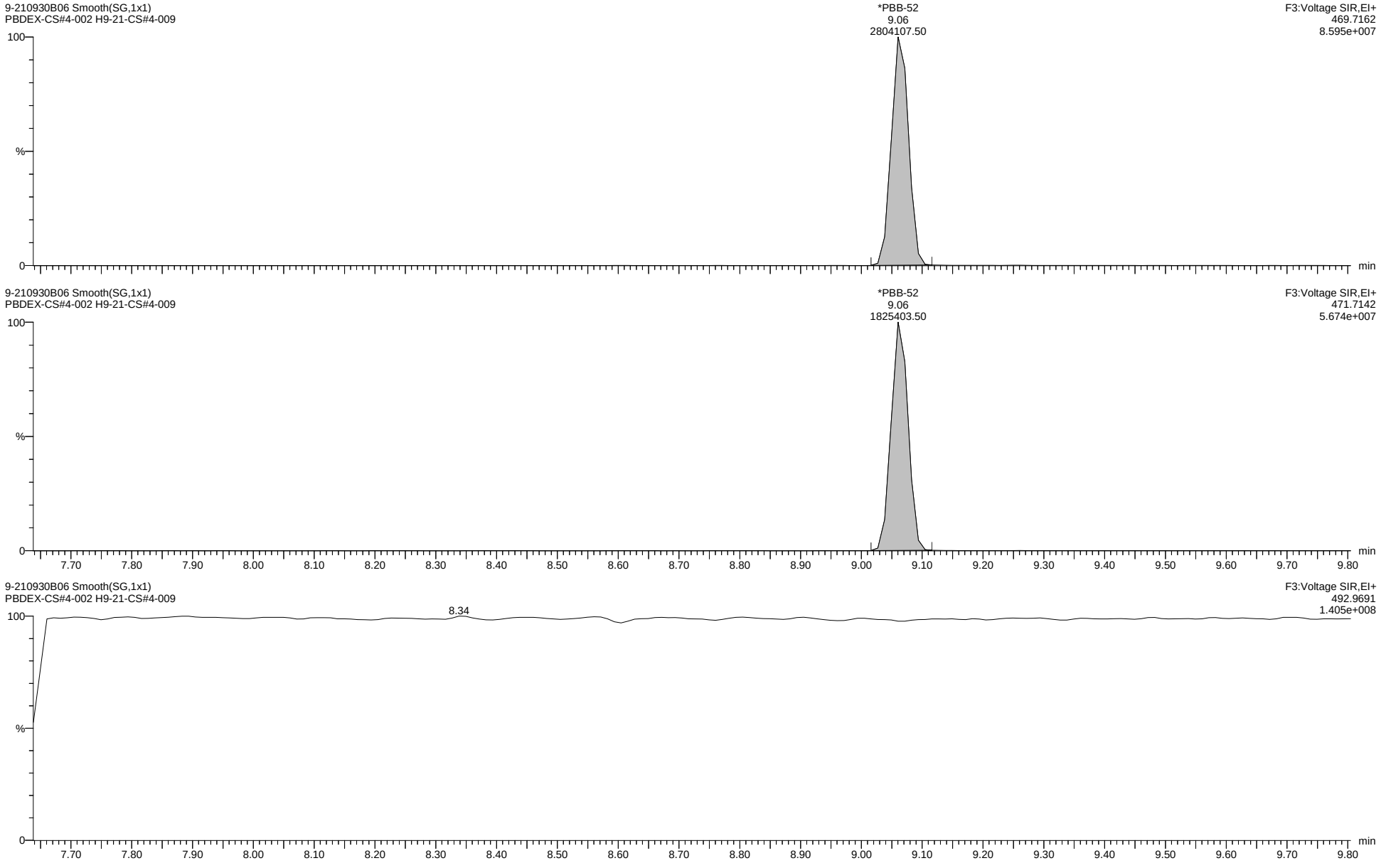

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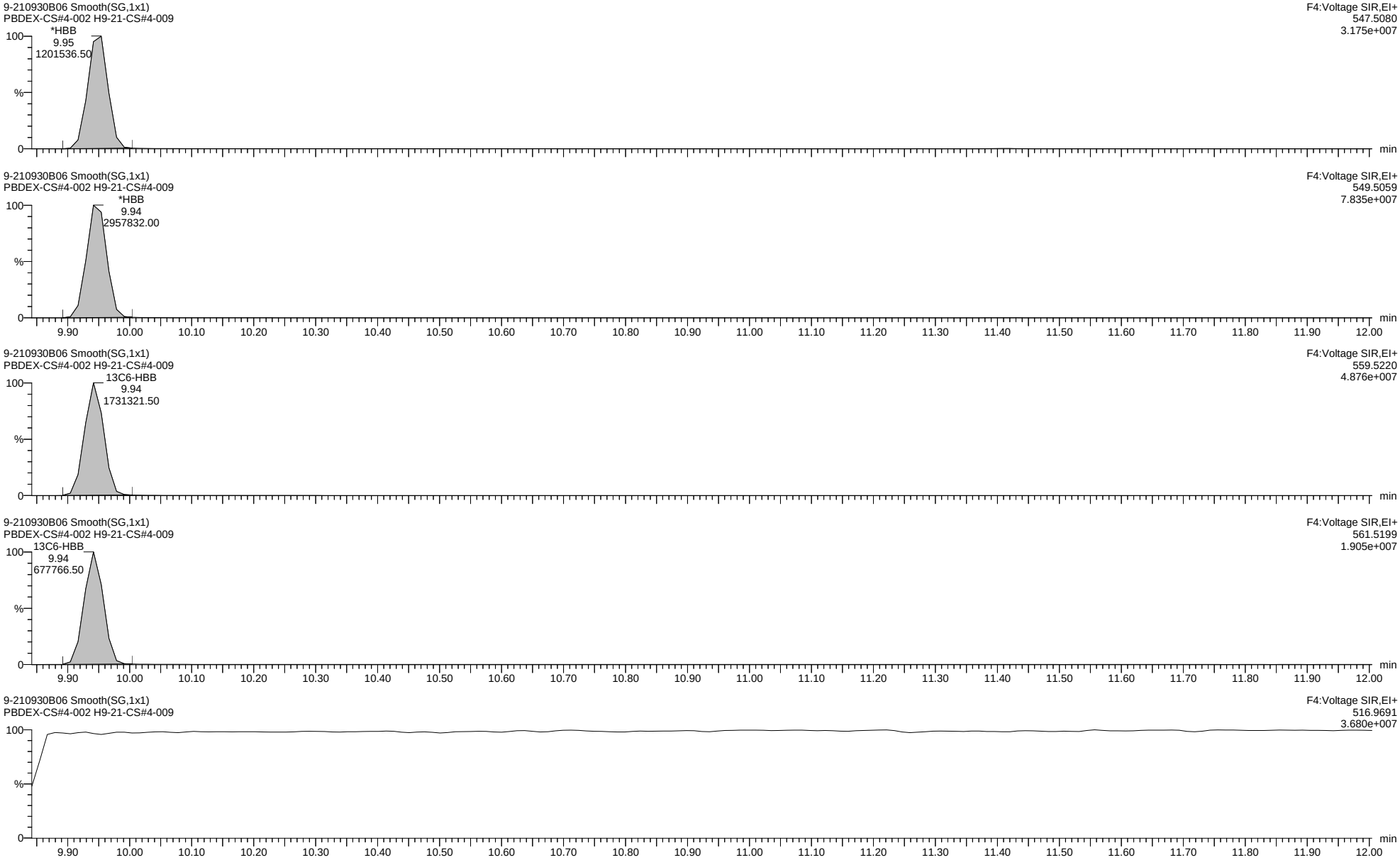

Quantify Sample Template Report **MassLynx MassLynx V4.1 SCN 901**

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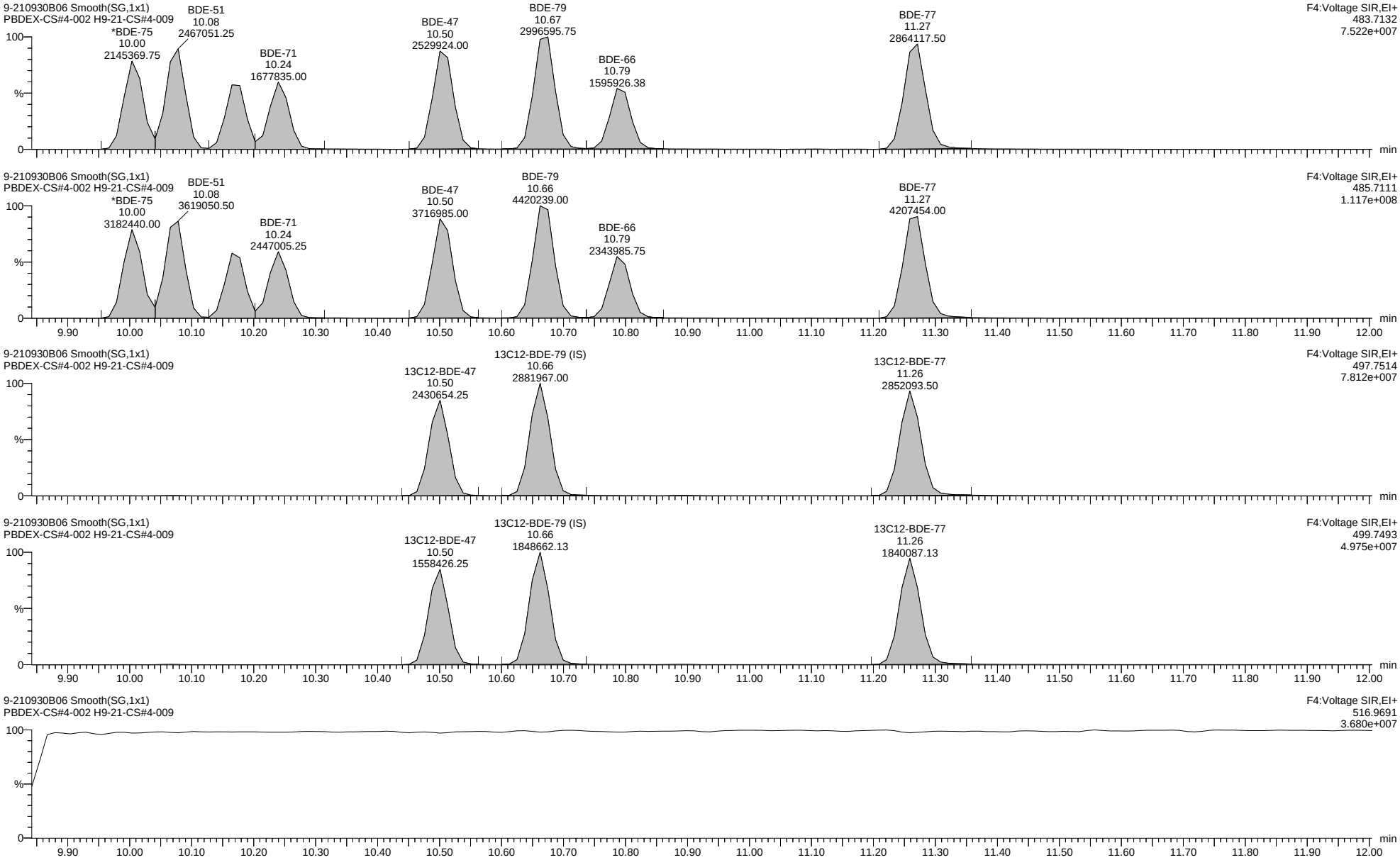

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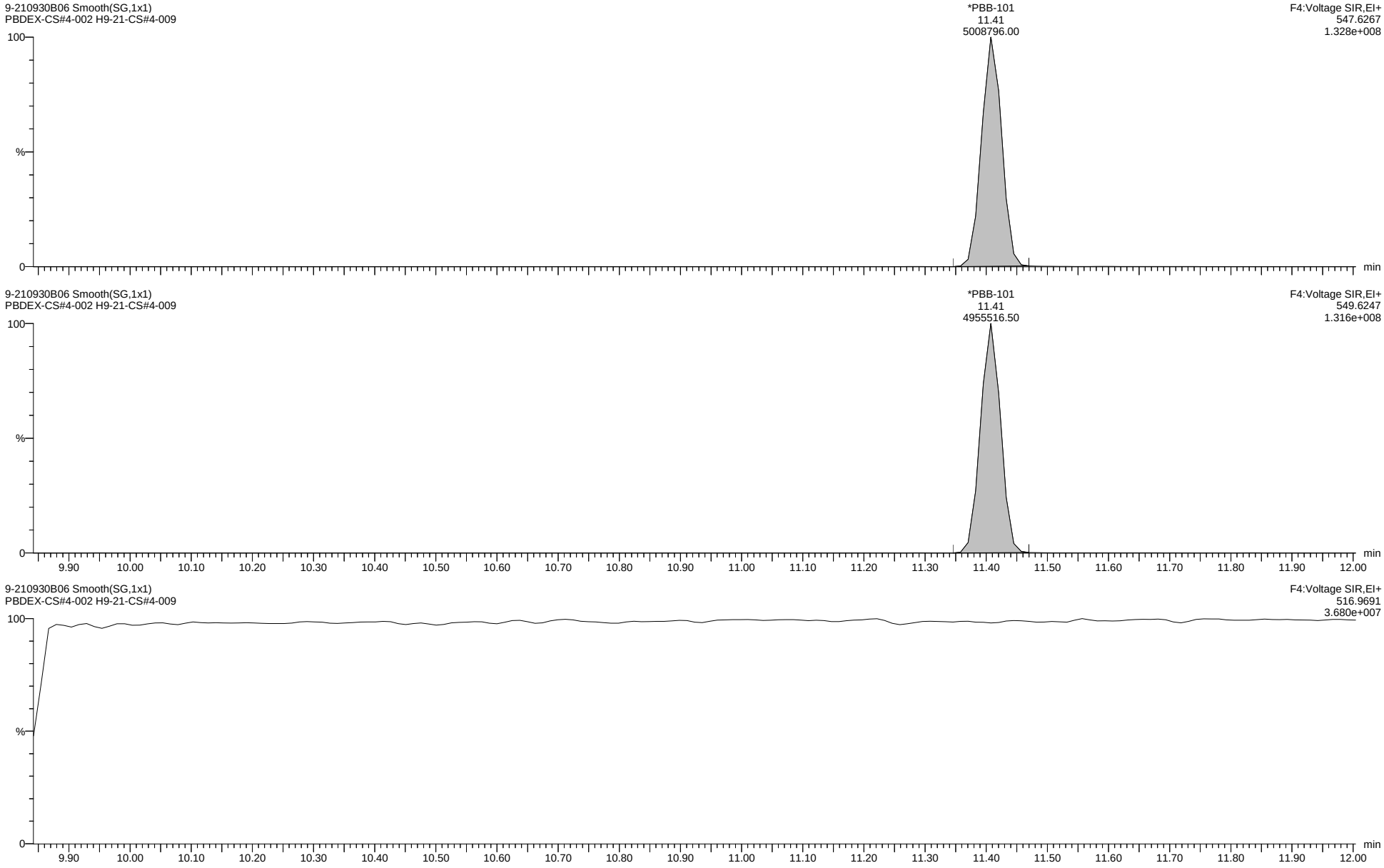

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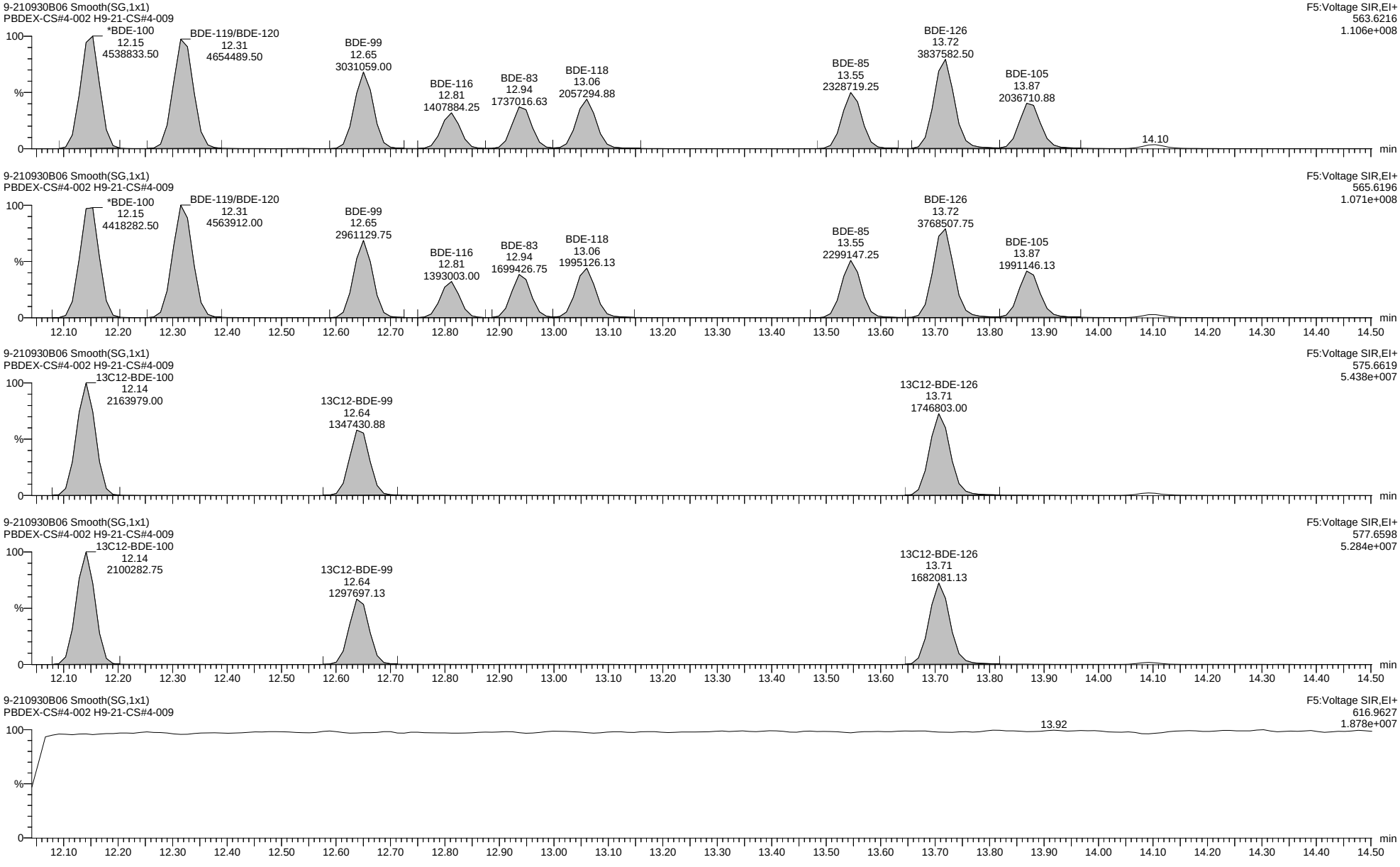

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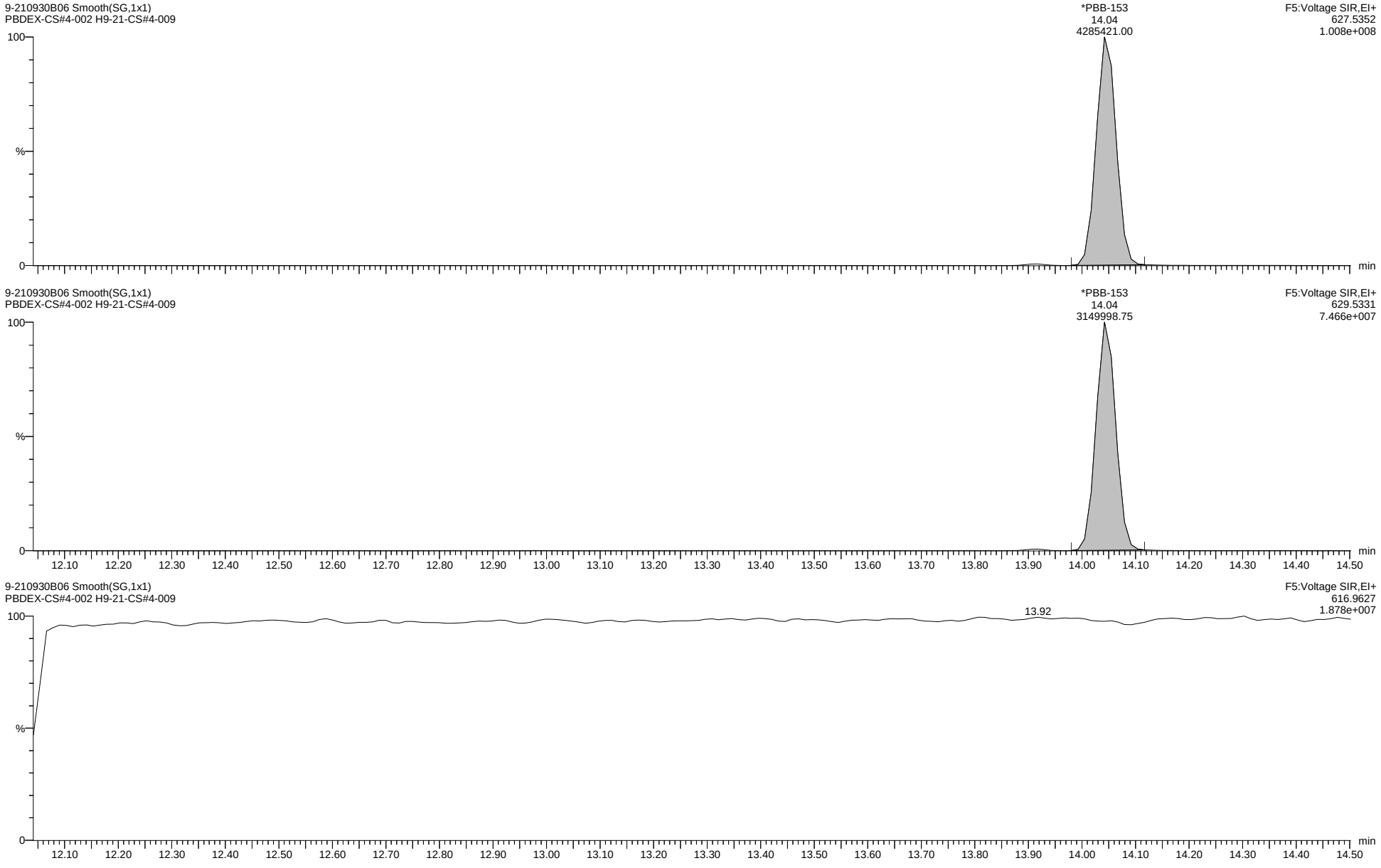

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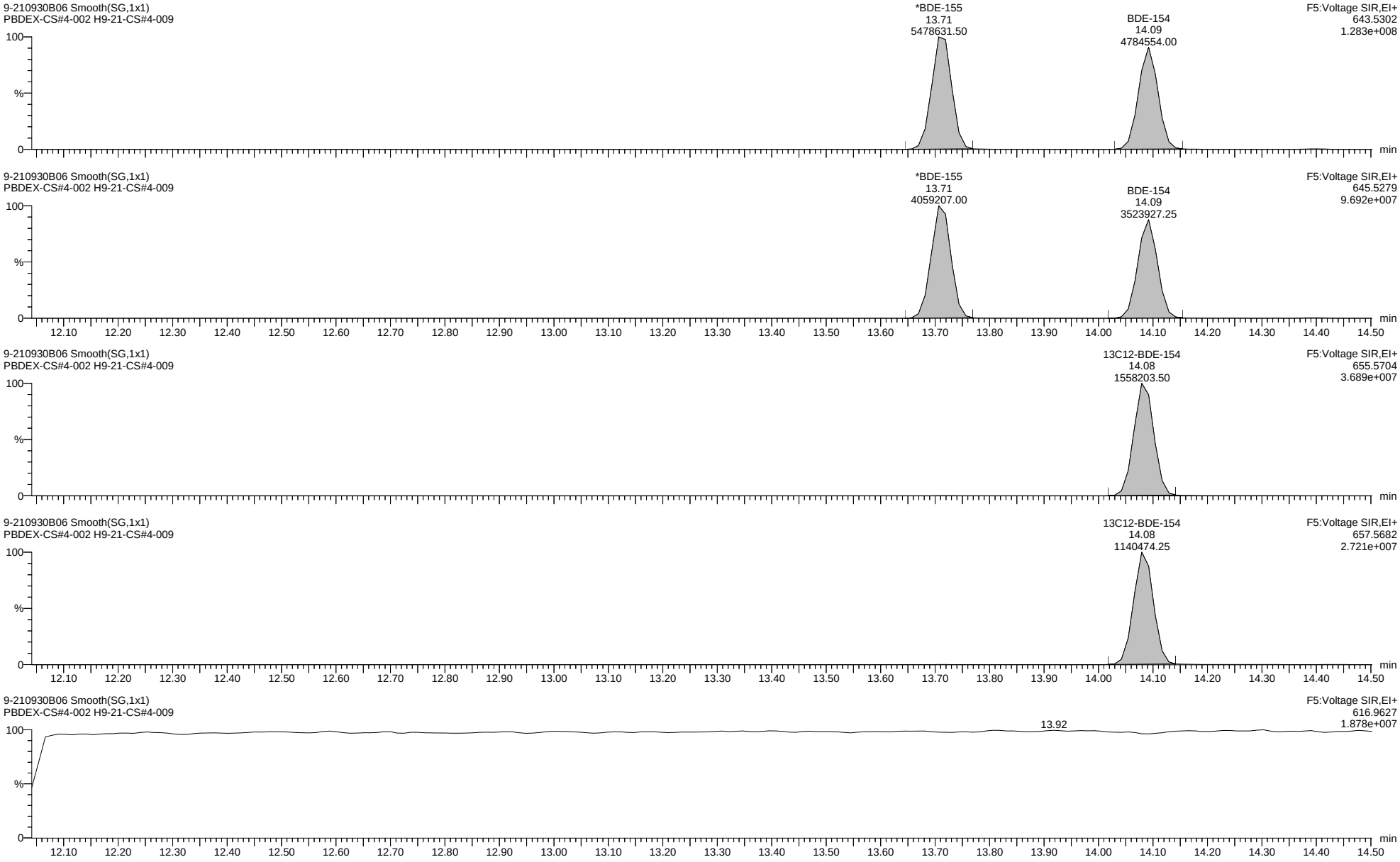

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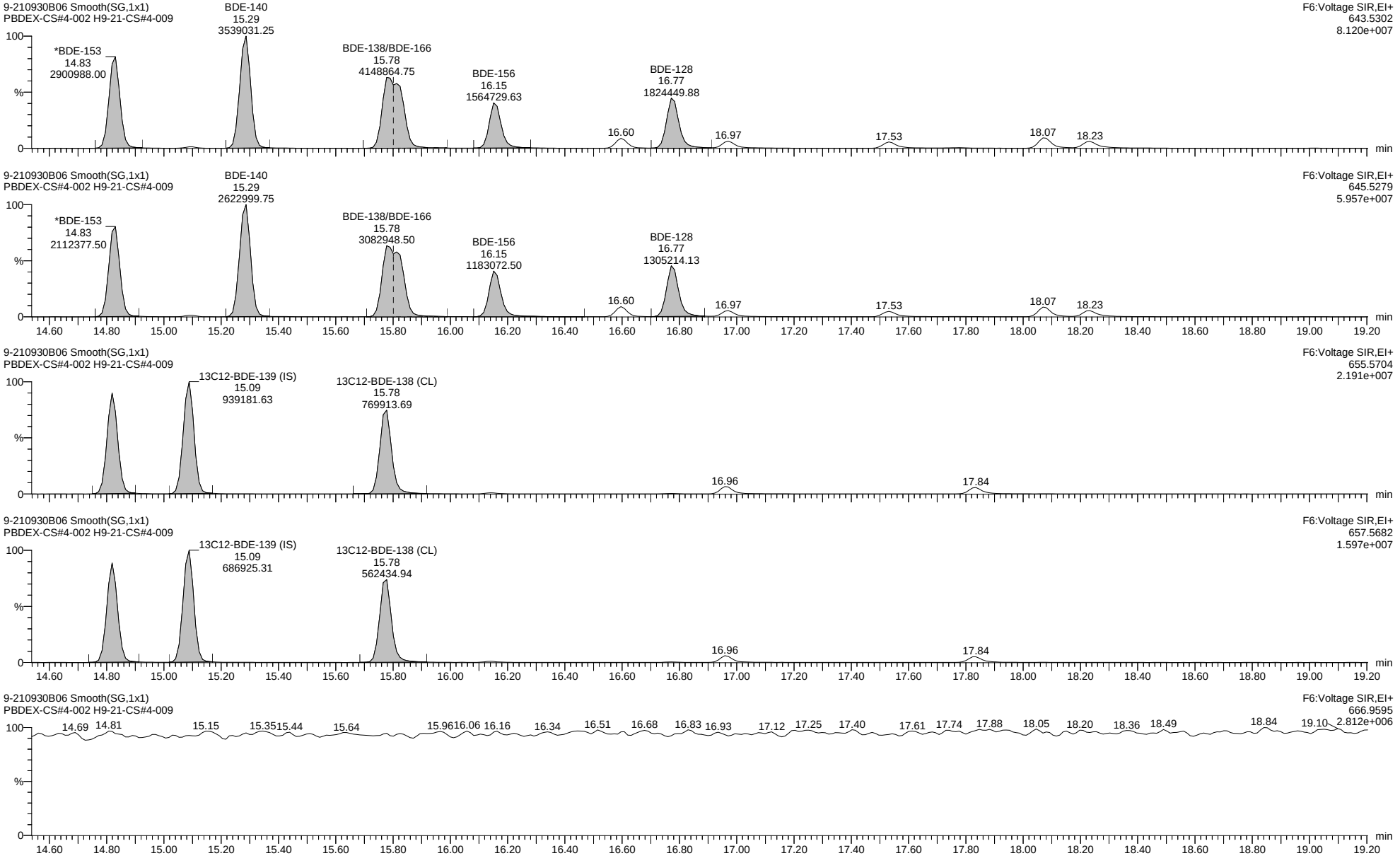

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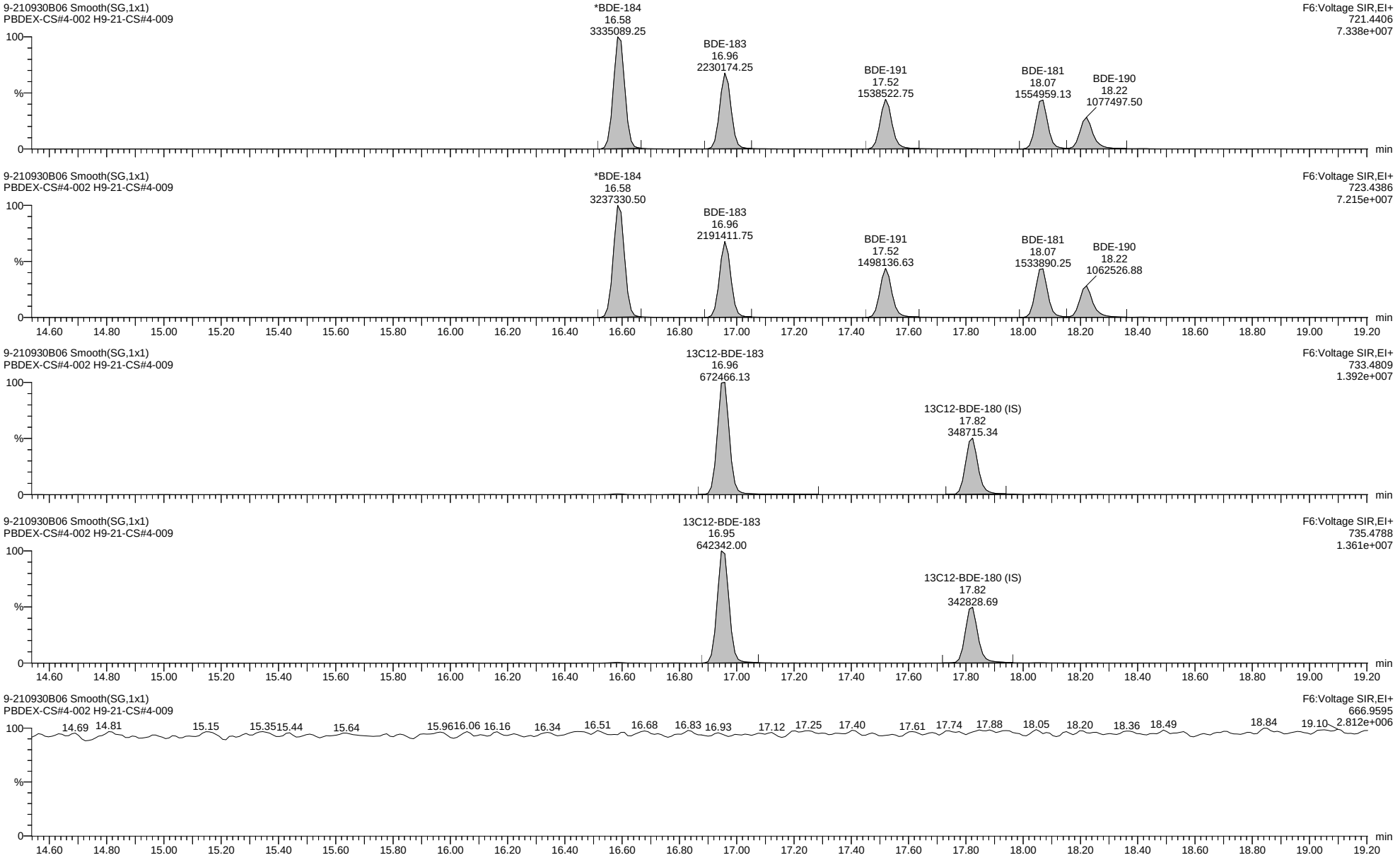

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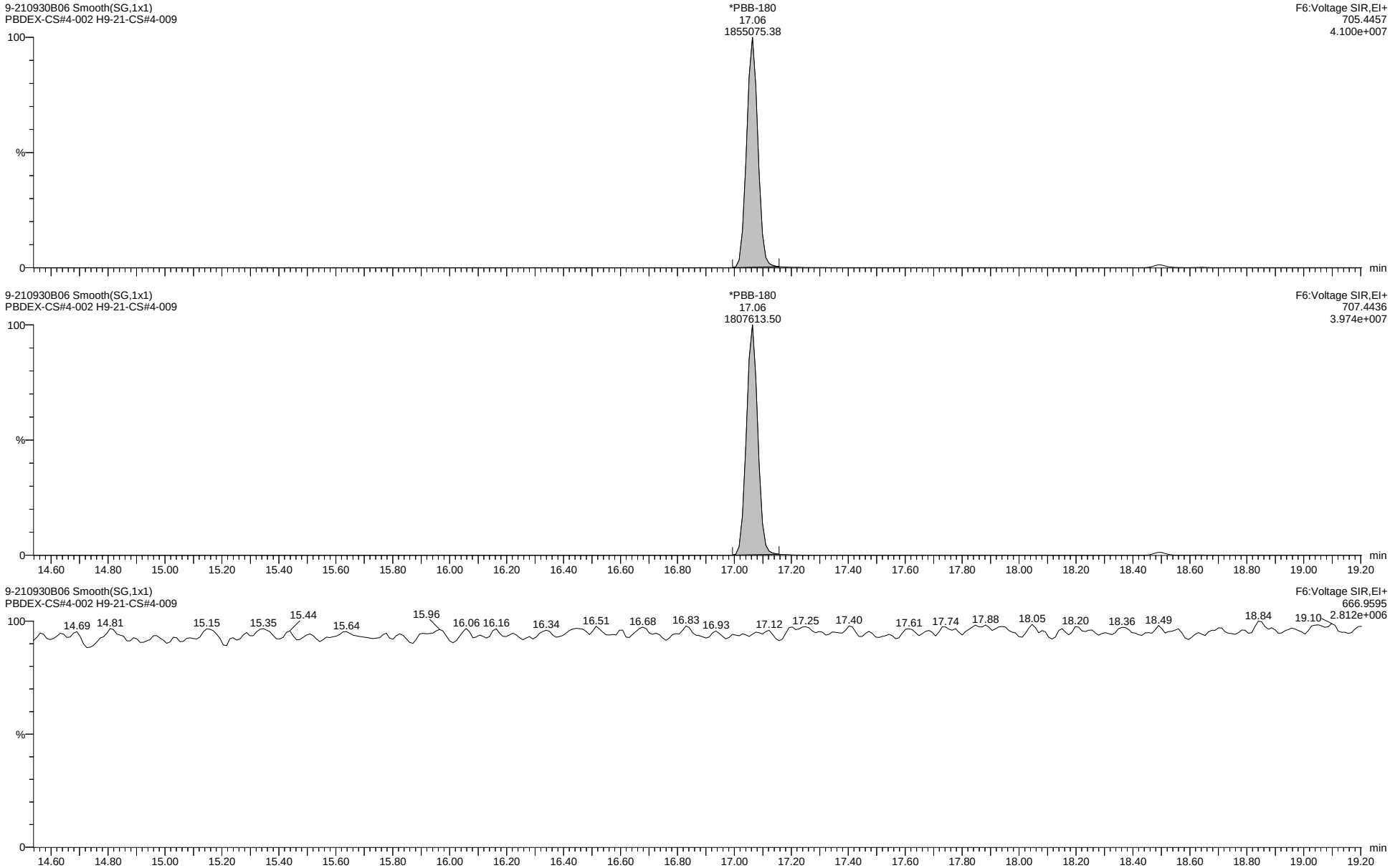

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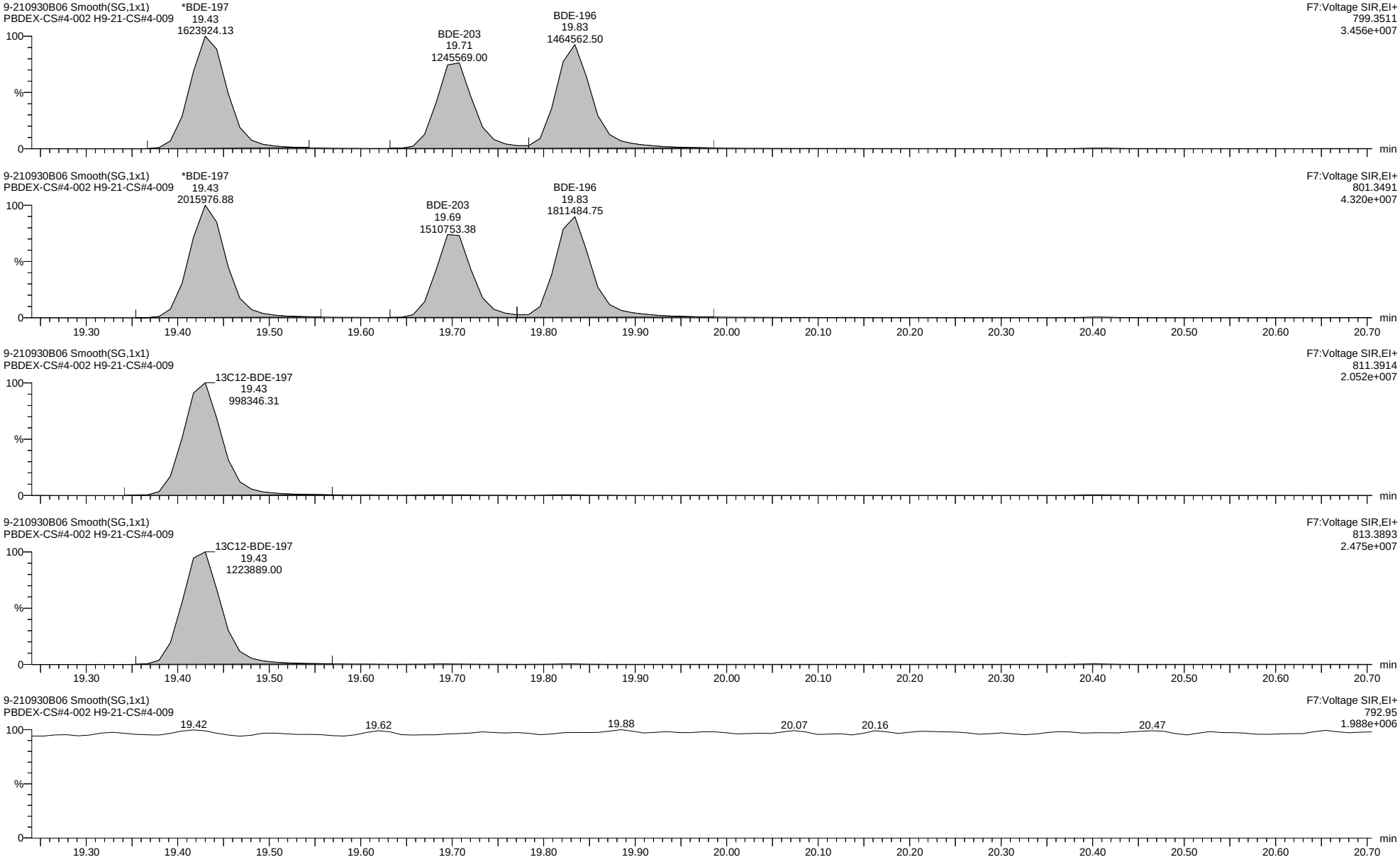

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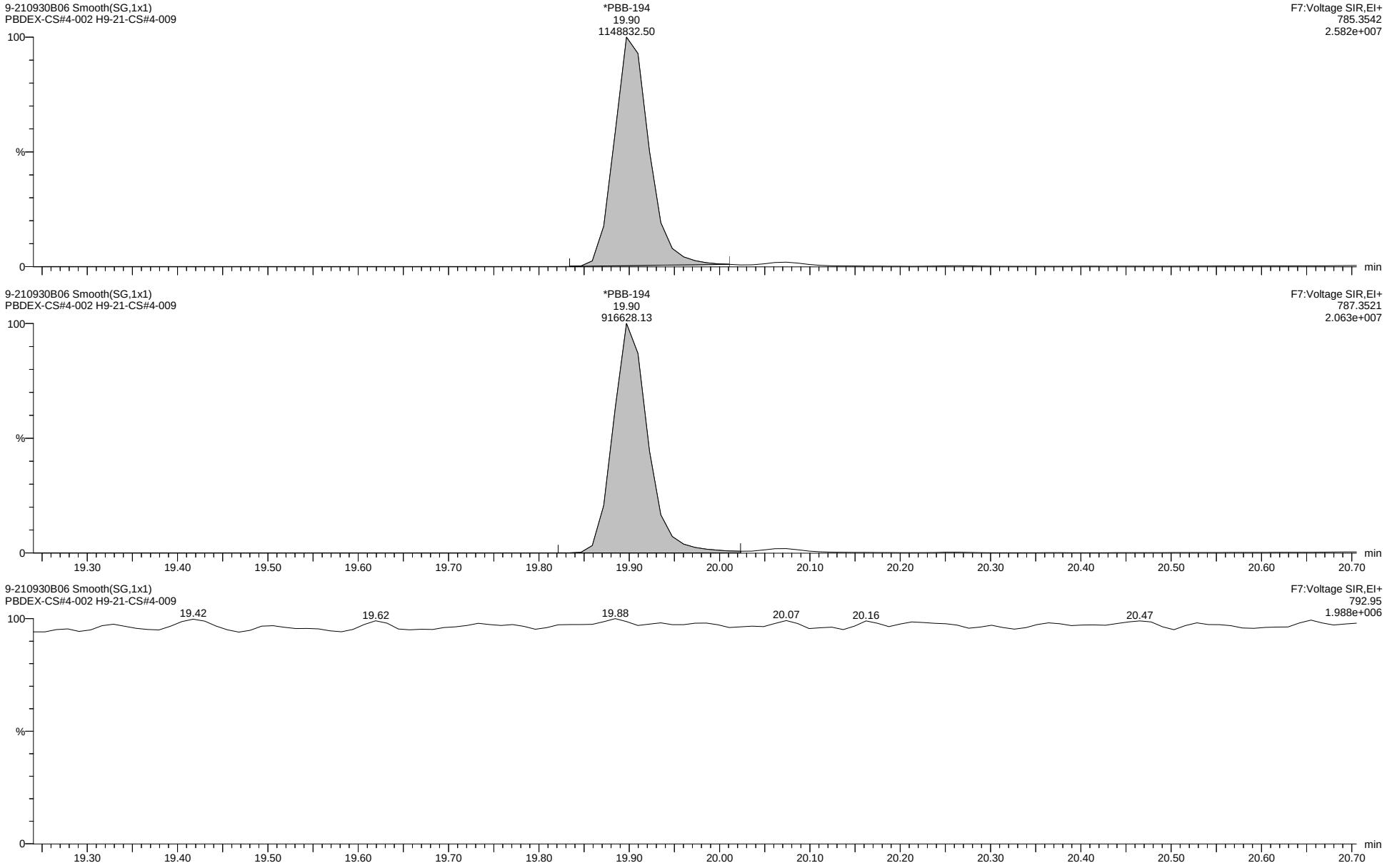

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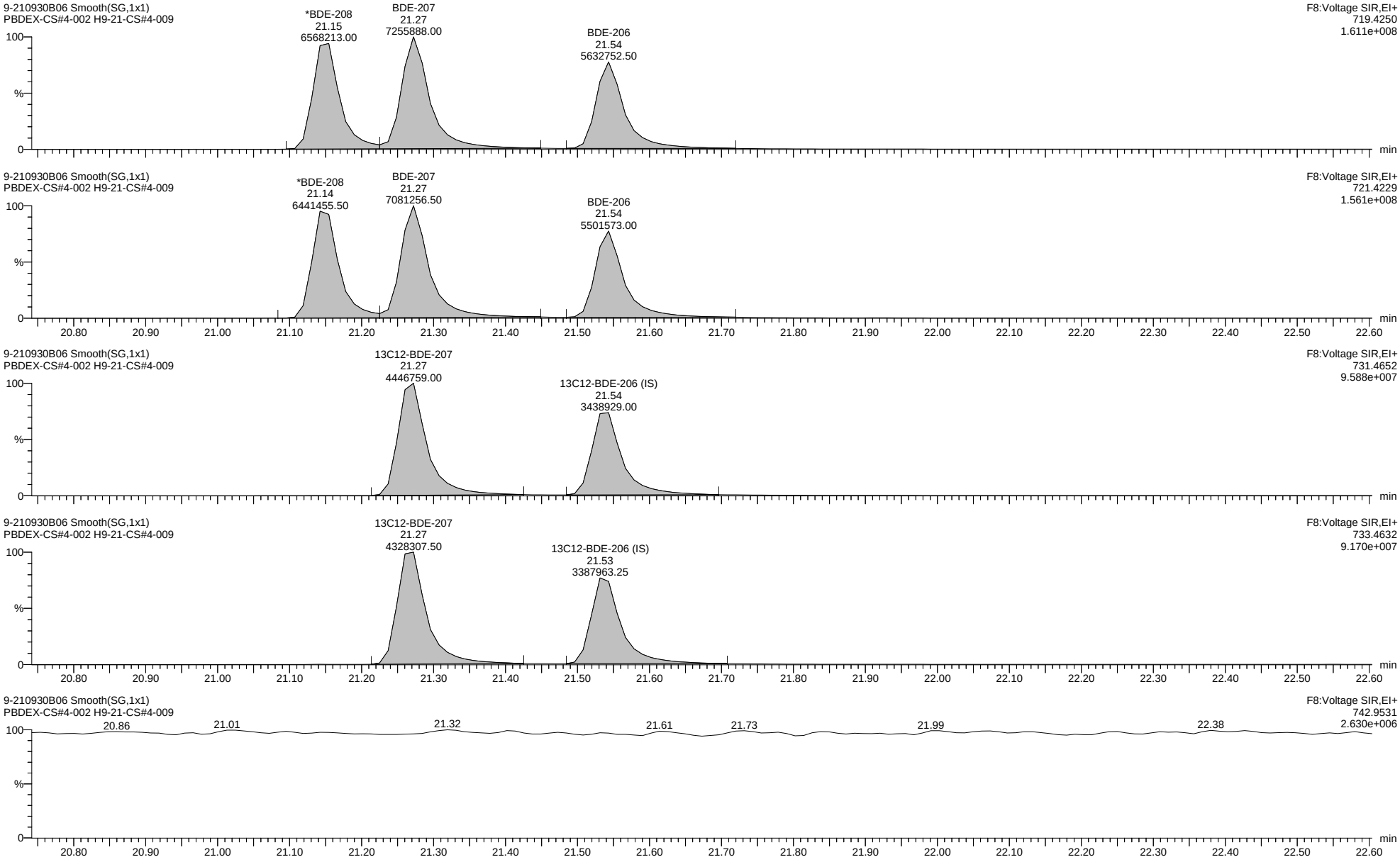

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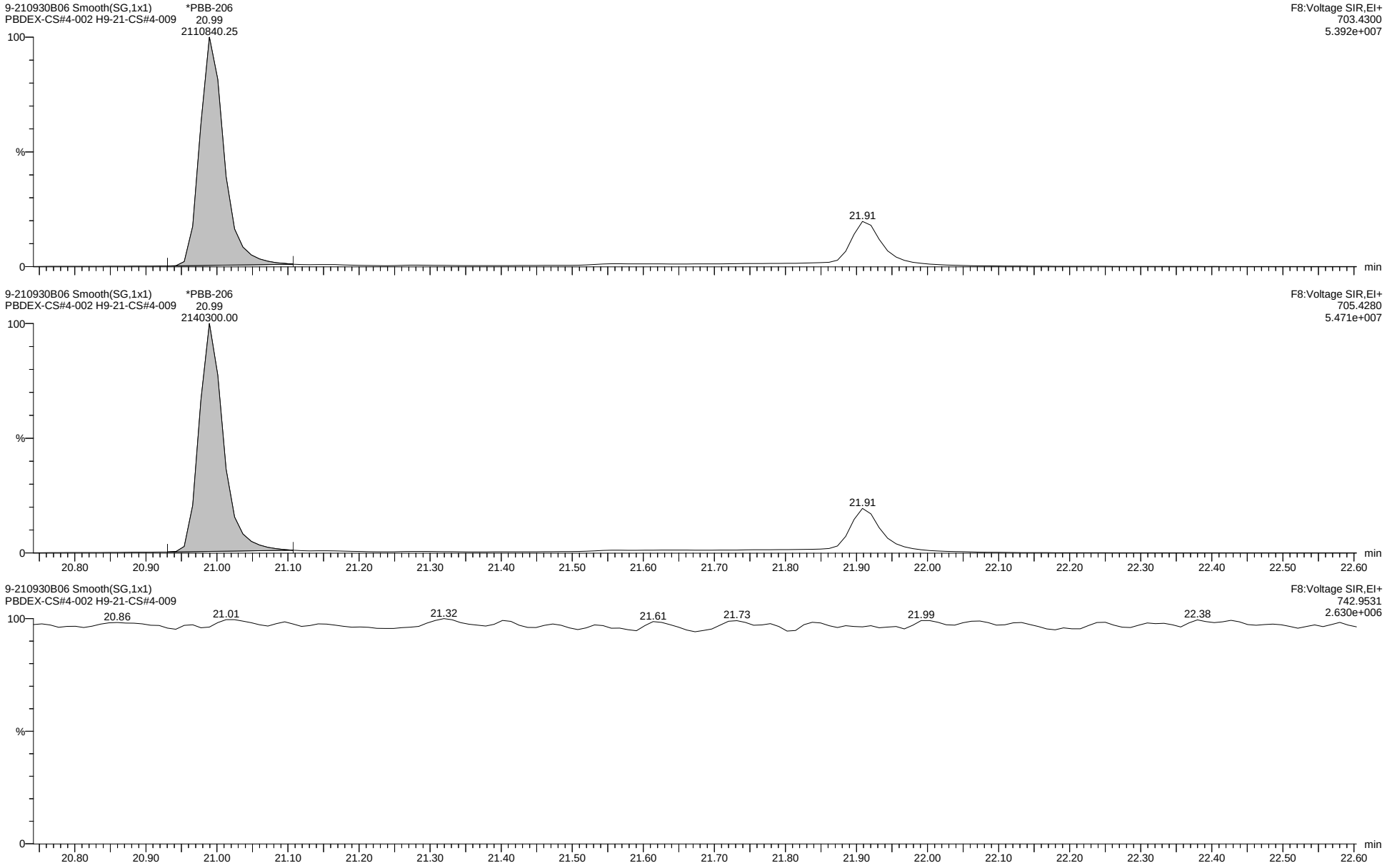

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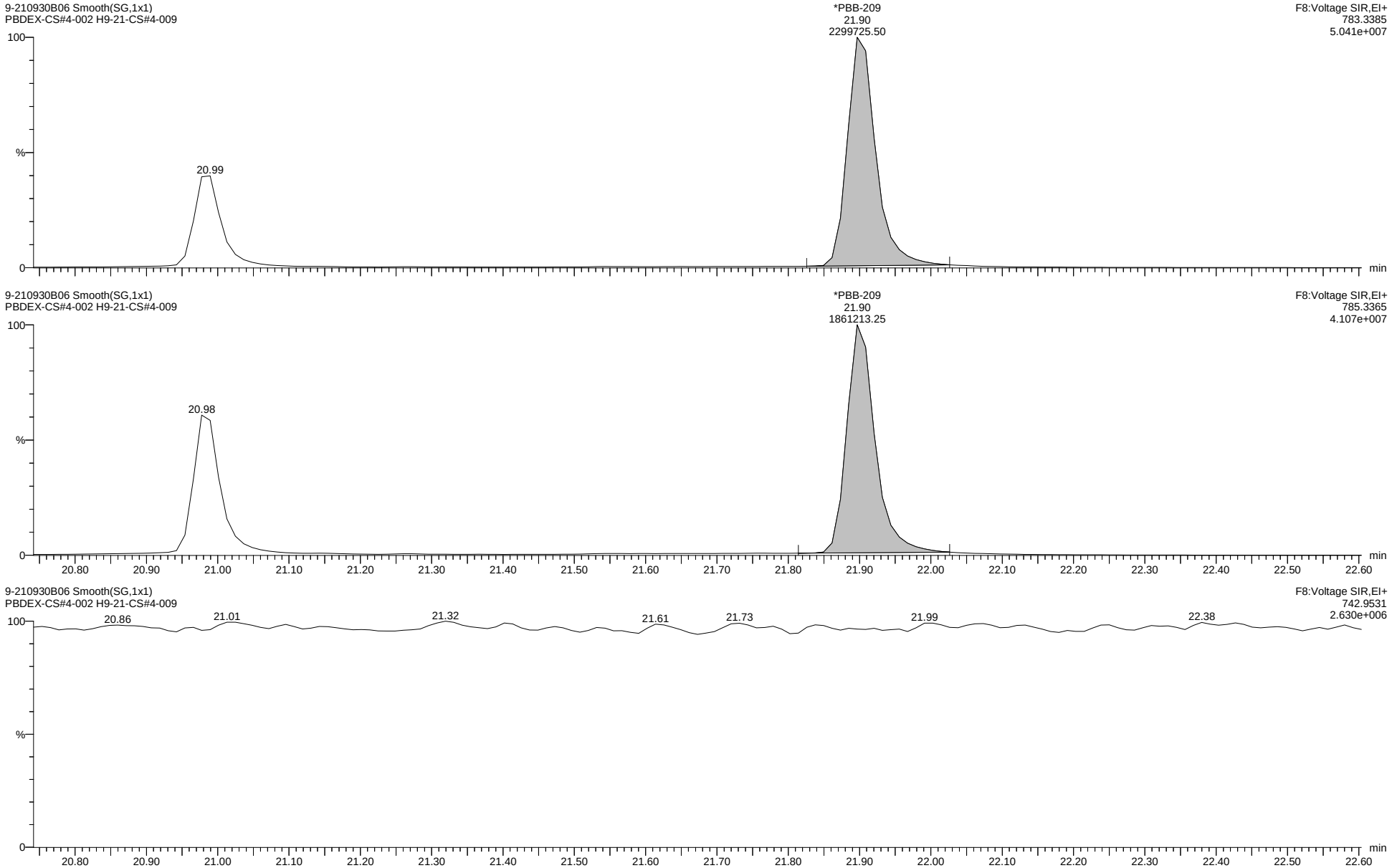

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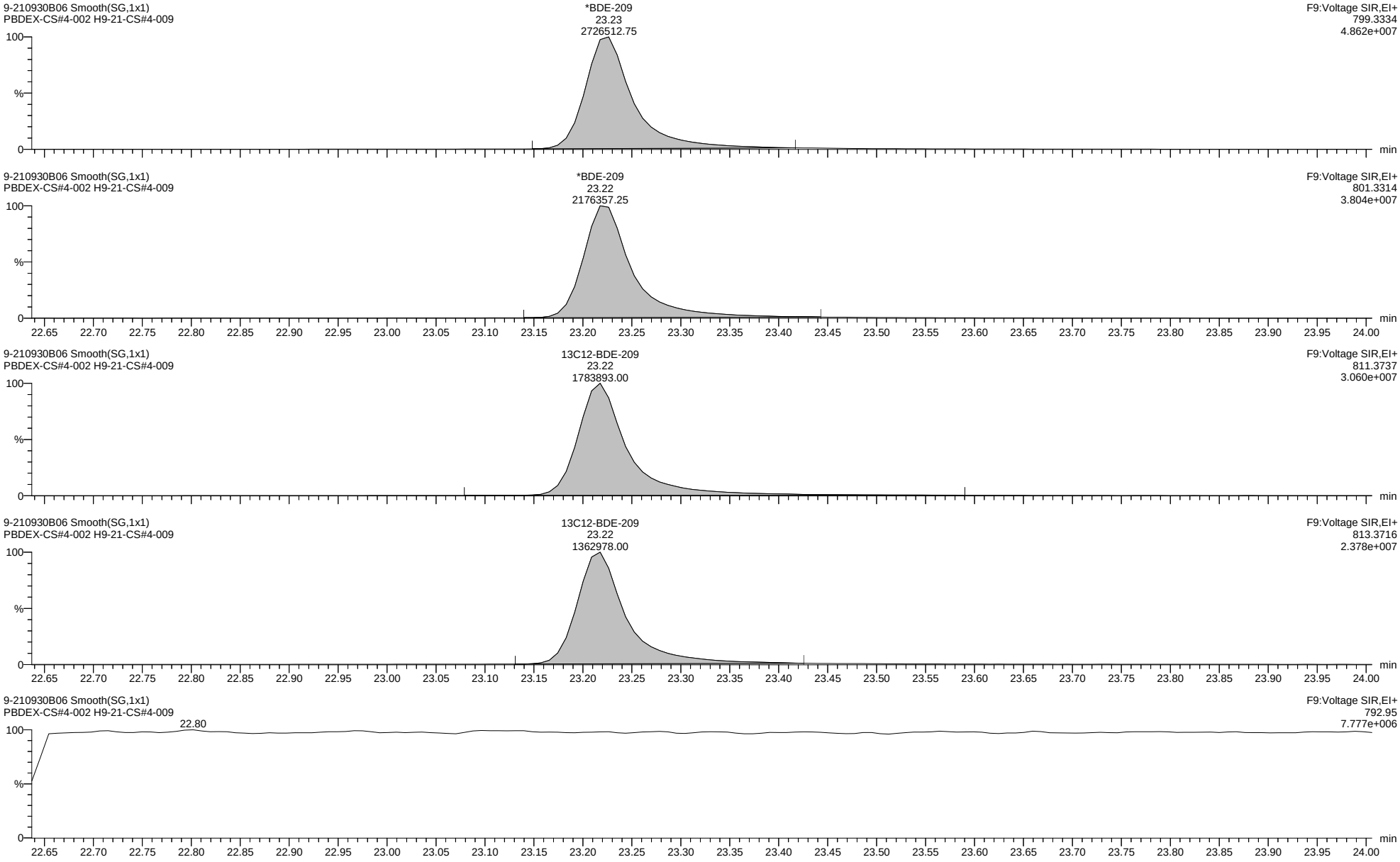

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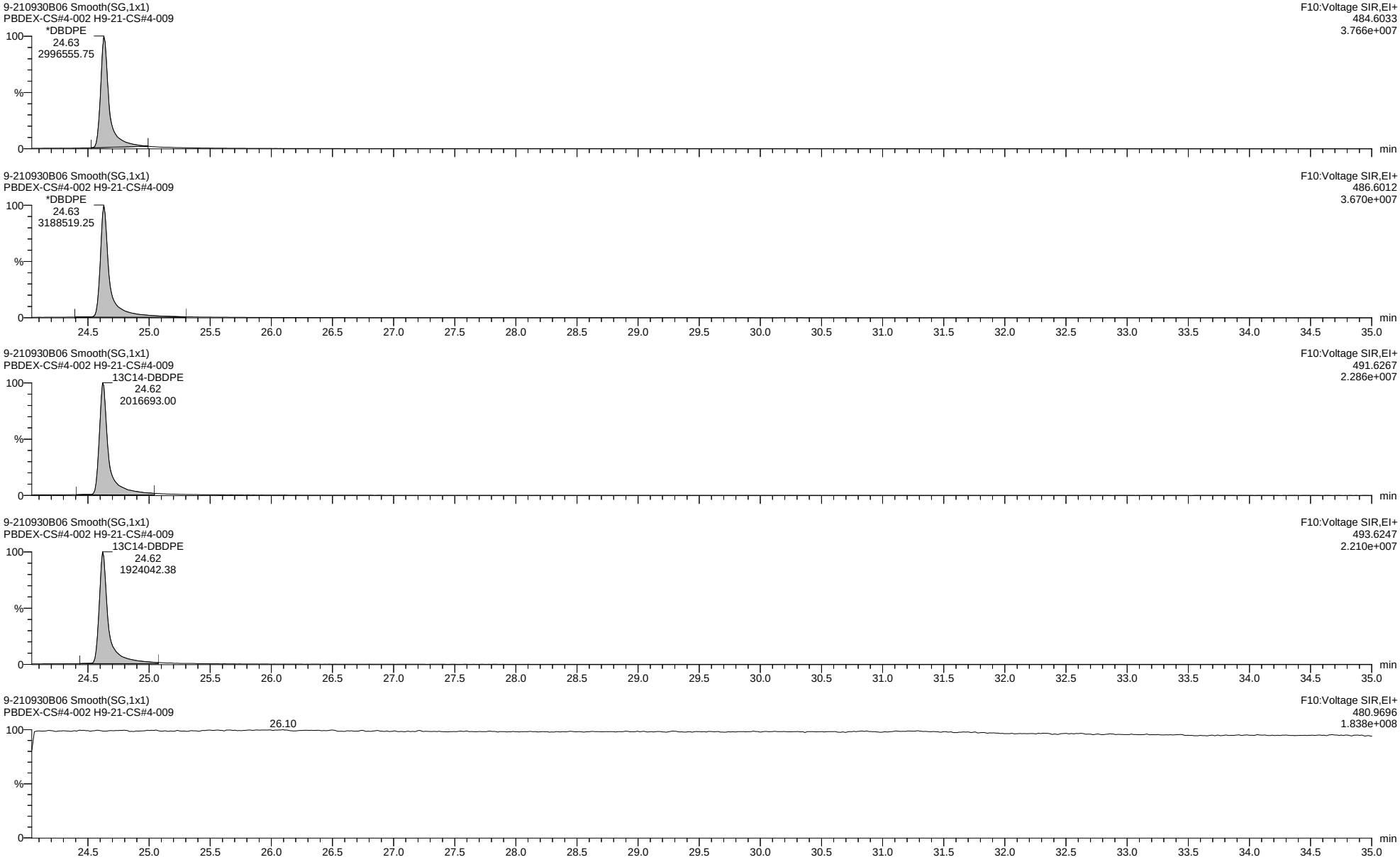

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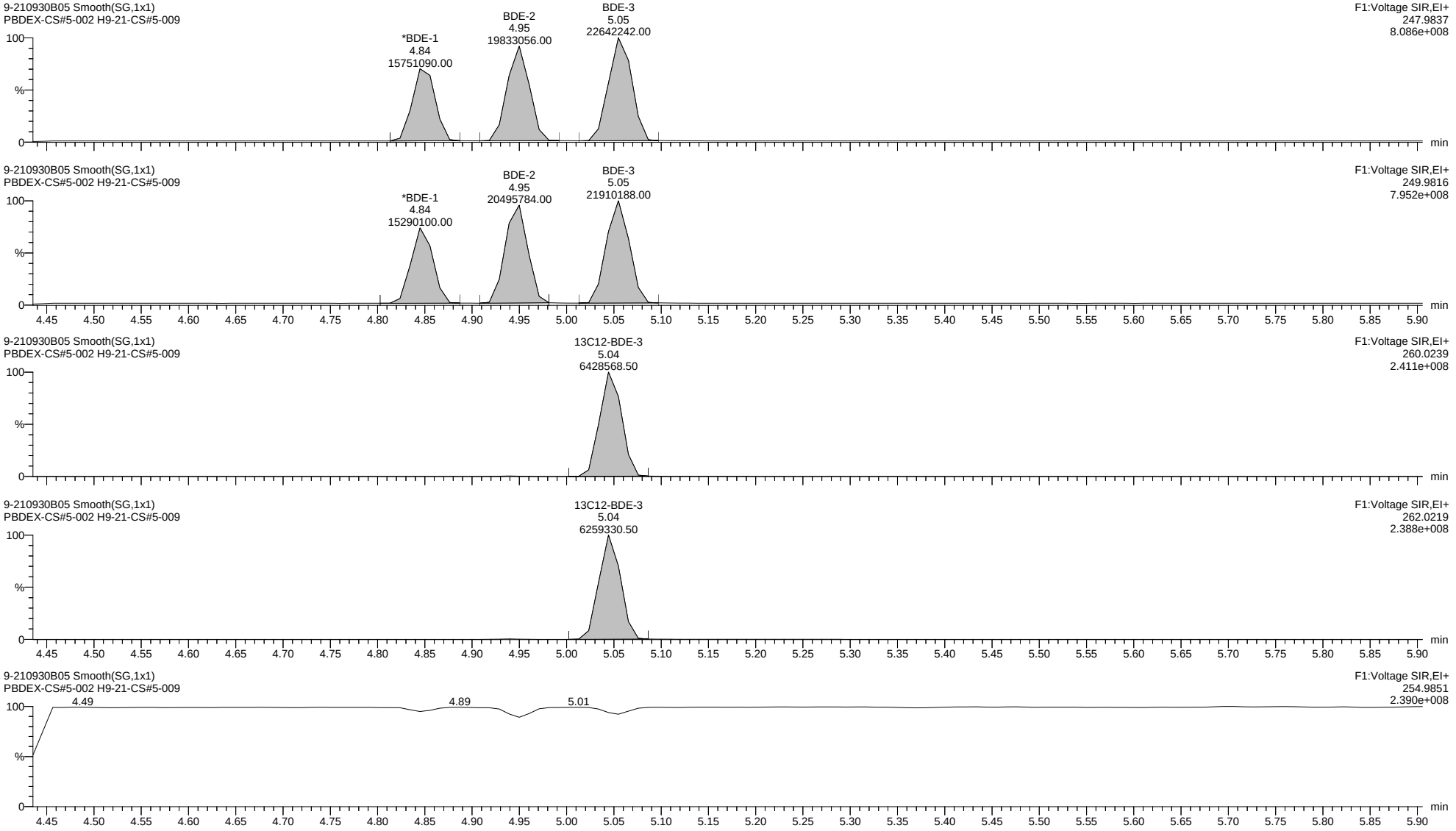

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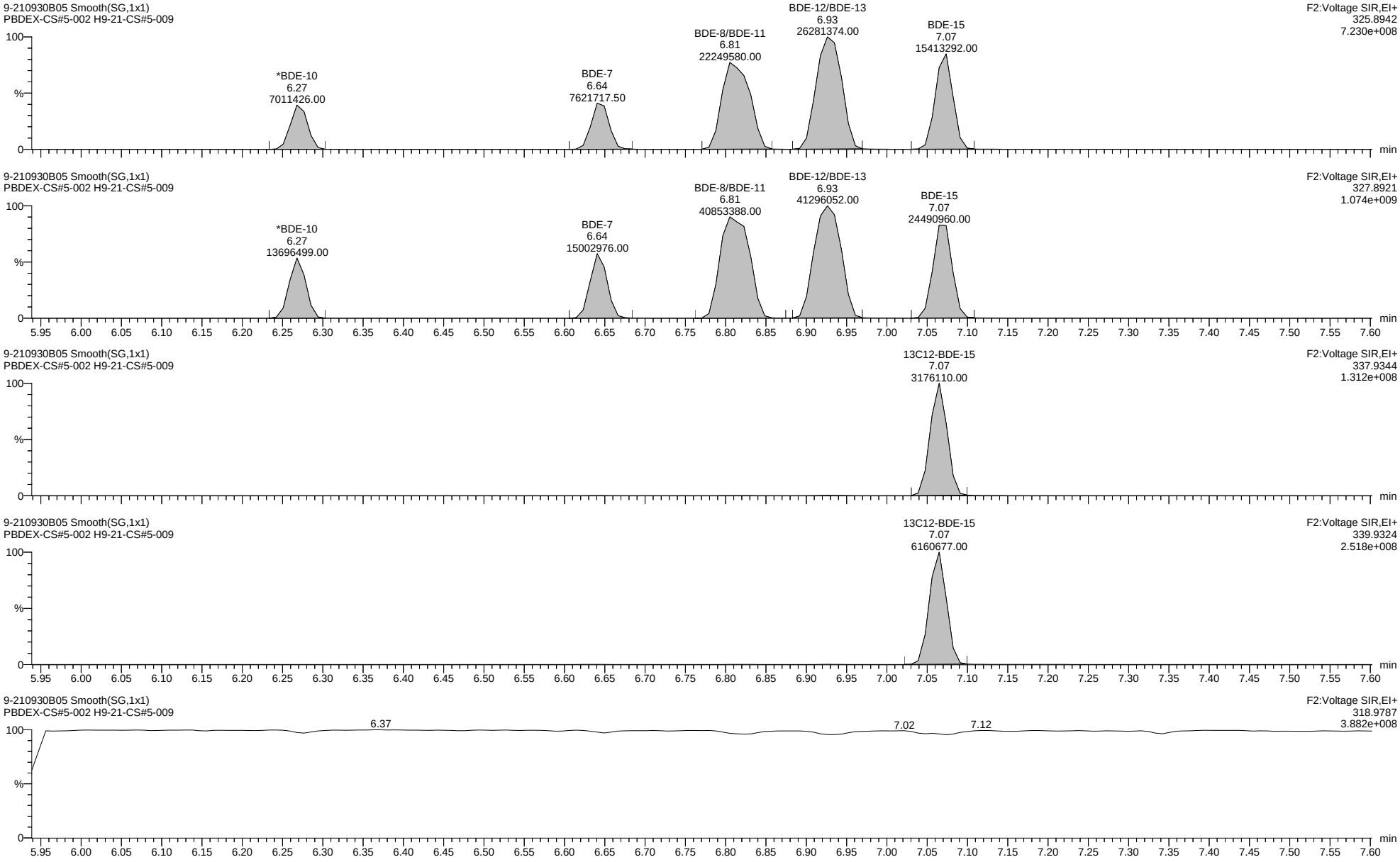

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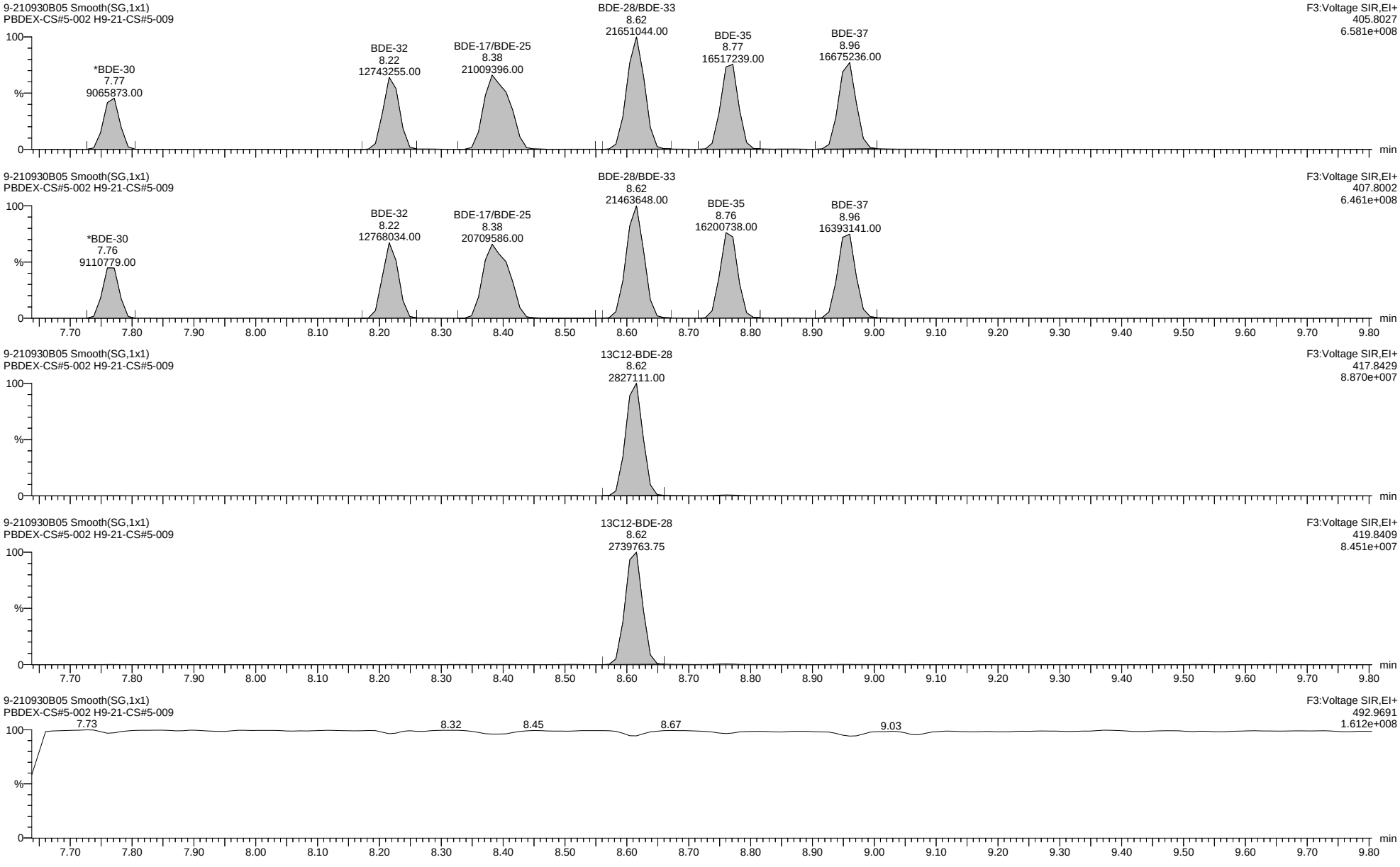

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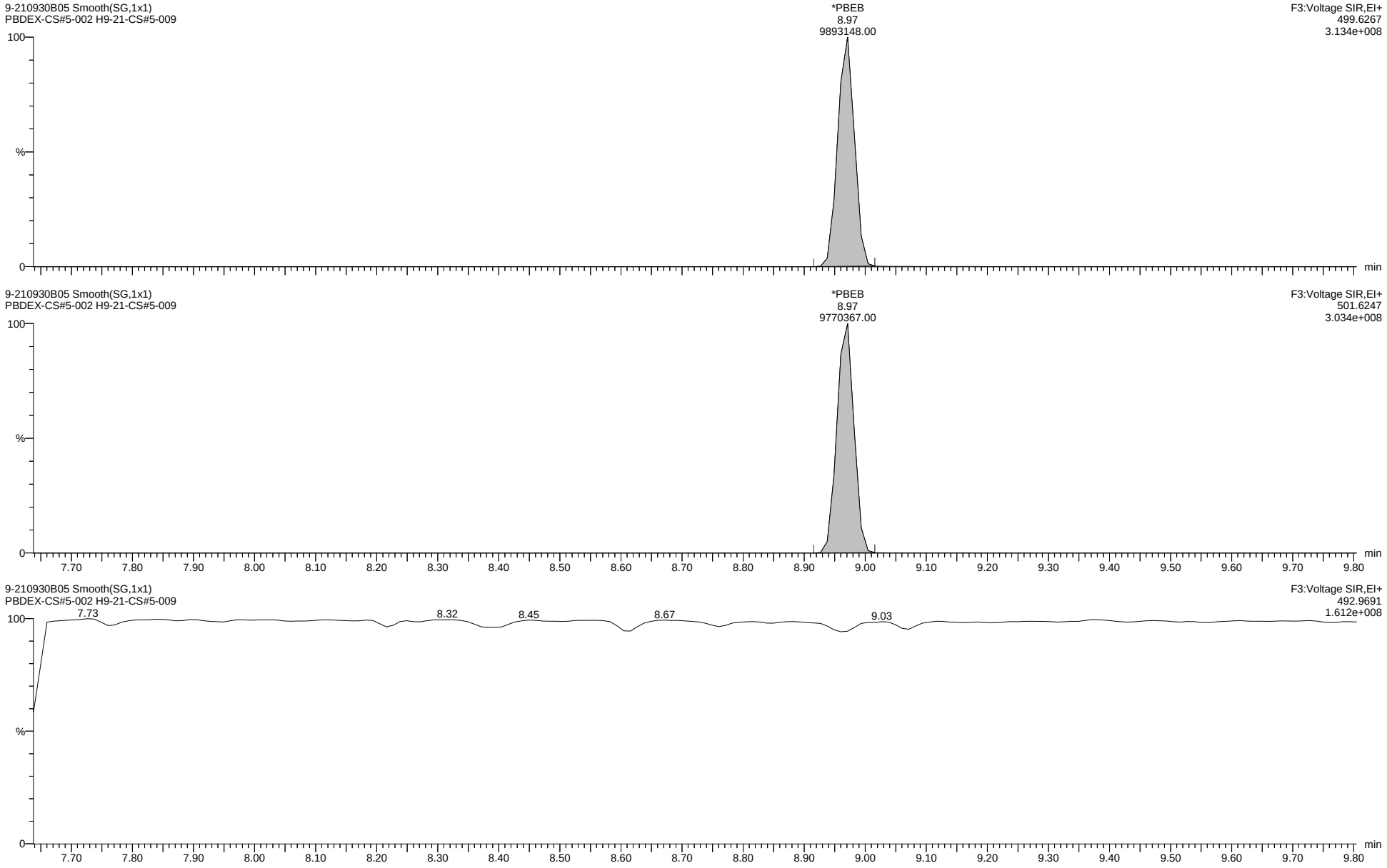

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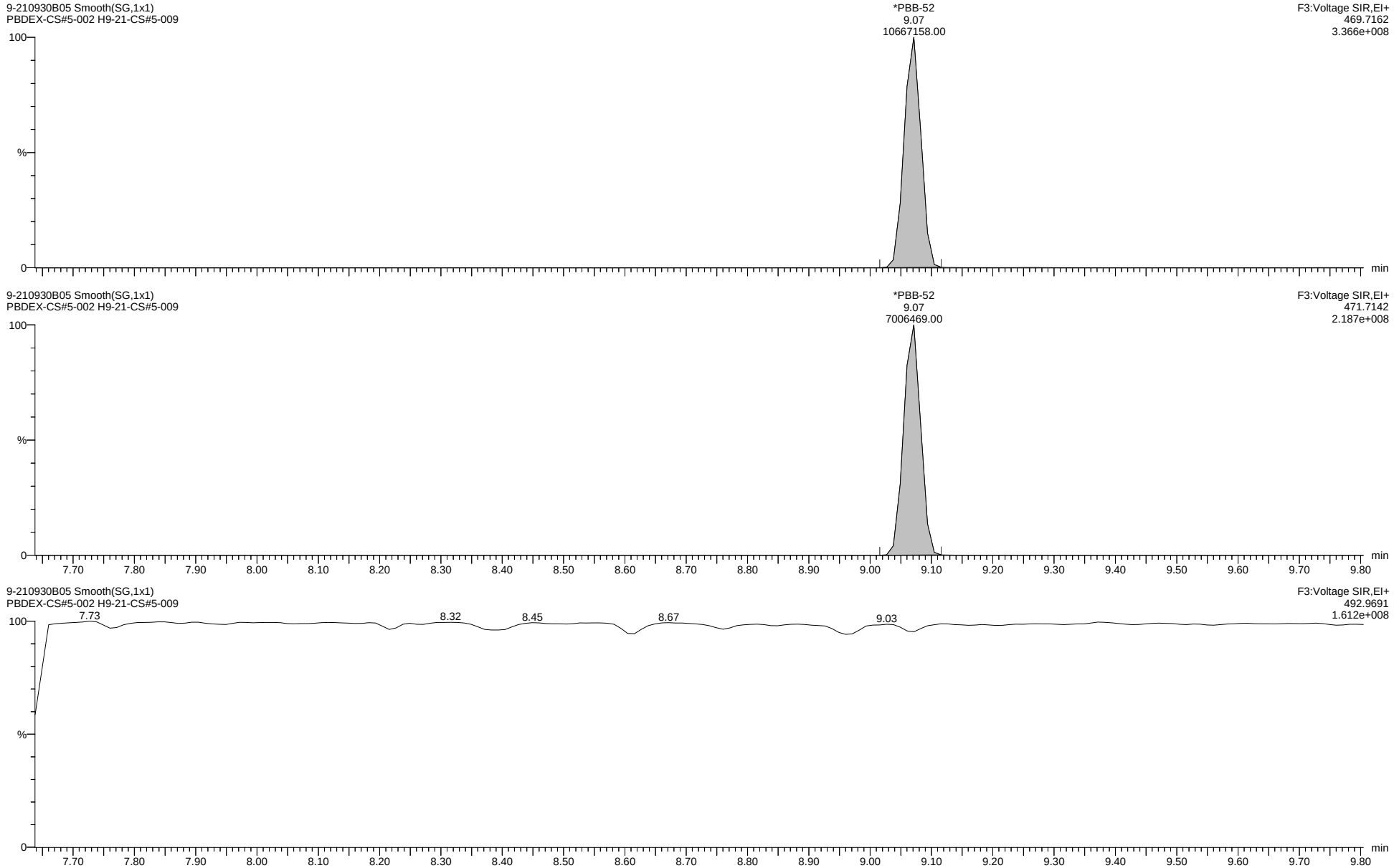

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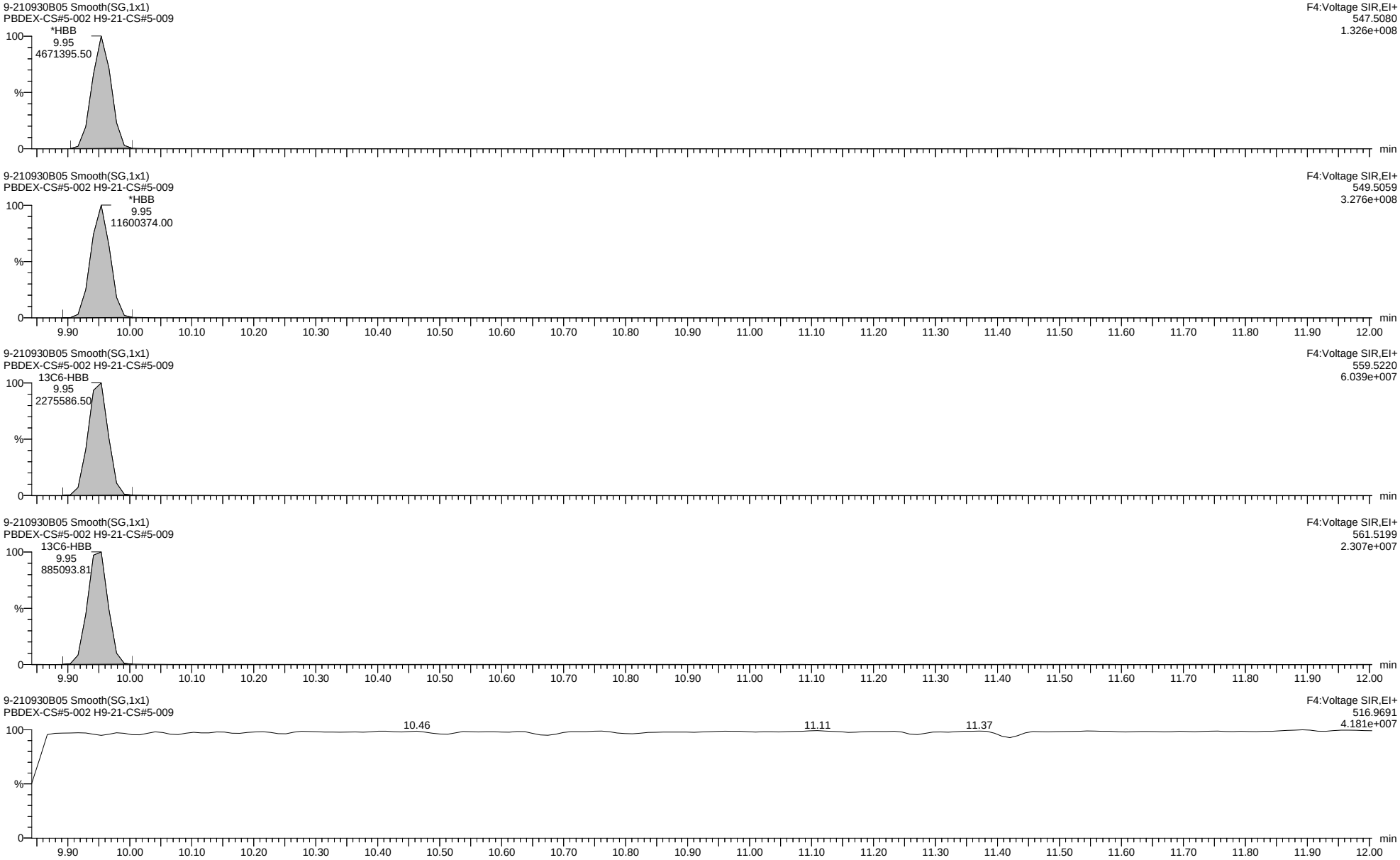

Quantify Sample Template Report **MassLynx MassLynx V4.1 SCN 901**

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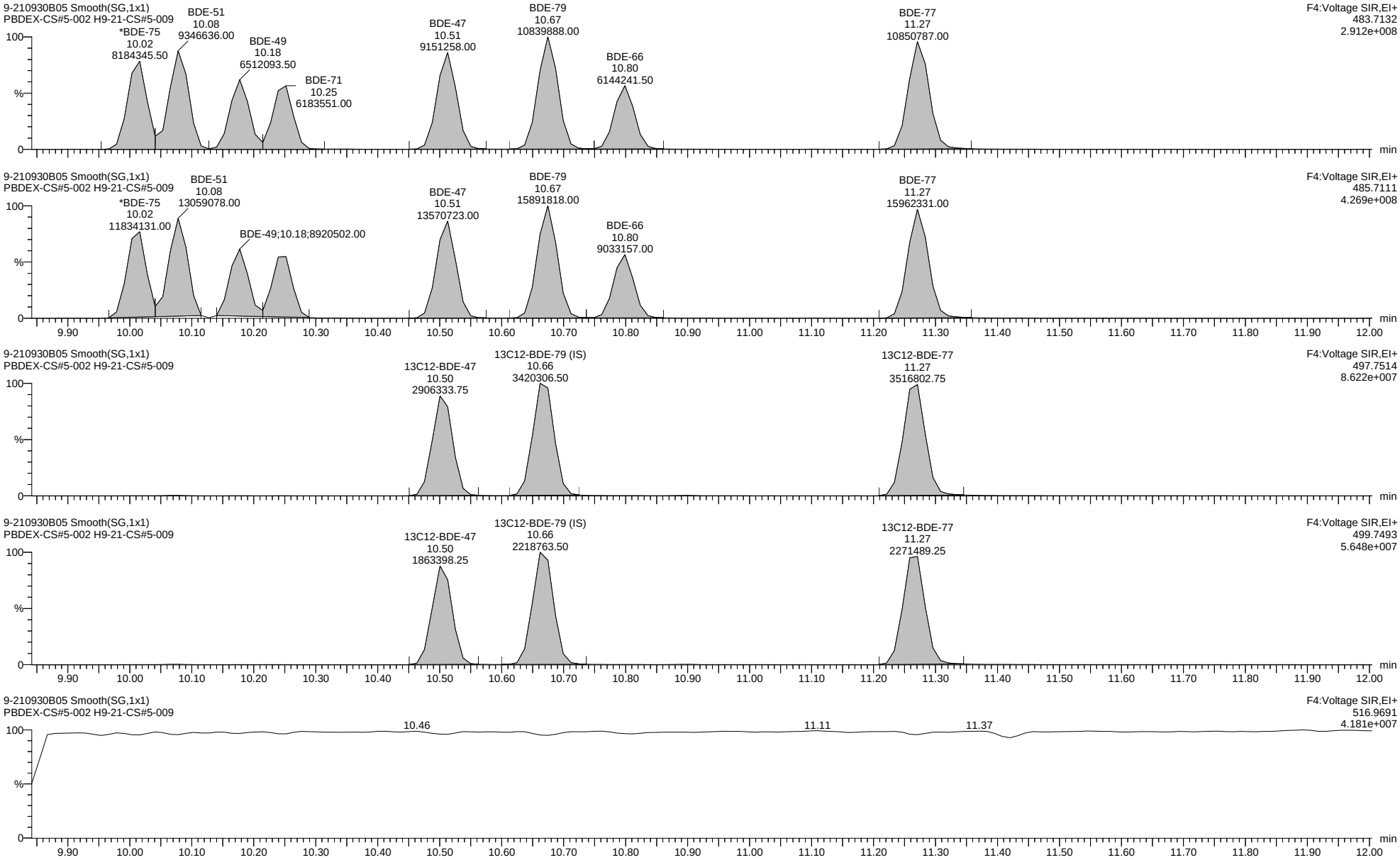
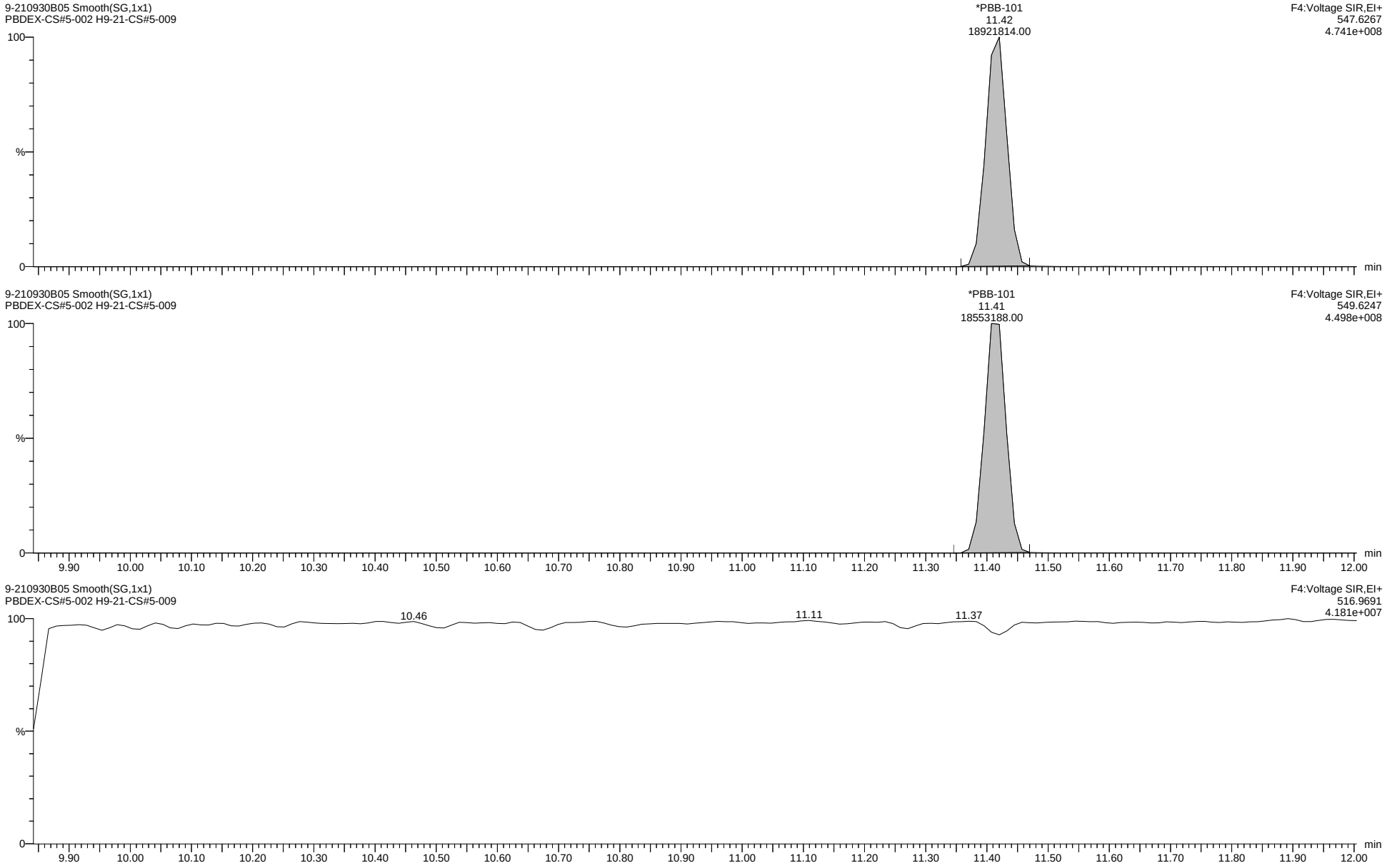
Printed: Thursday, November 18, 2021 10:17:57 Eastern Standard Time

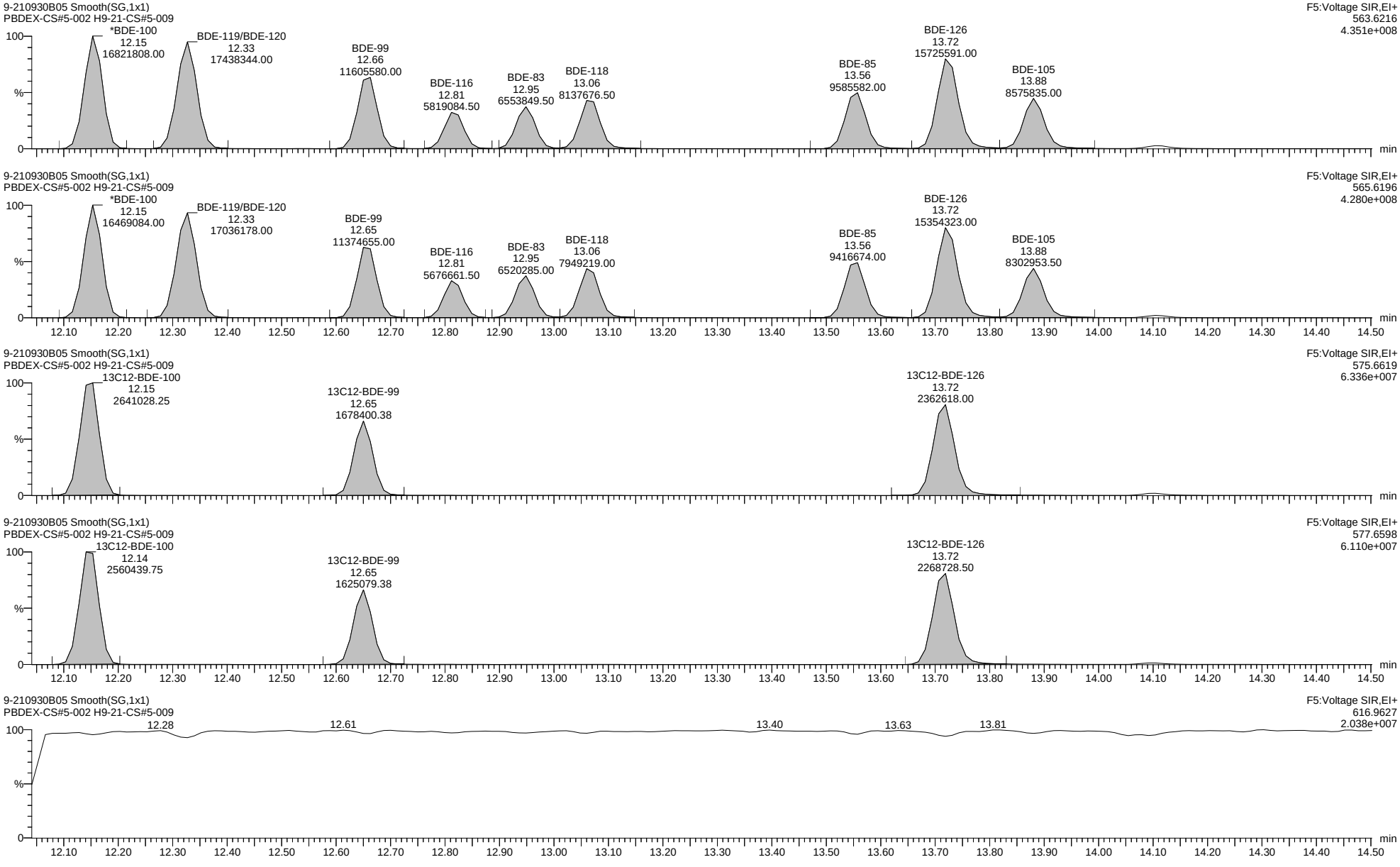
Name: 9-210930B05, Date: 30-Sep-2021, Time: 18:44:07, ID: H9-21-CS#5-009, Description: PBDEX-CS#5-002, Vial: Tray1:44



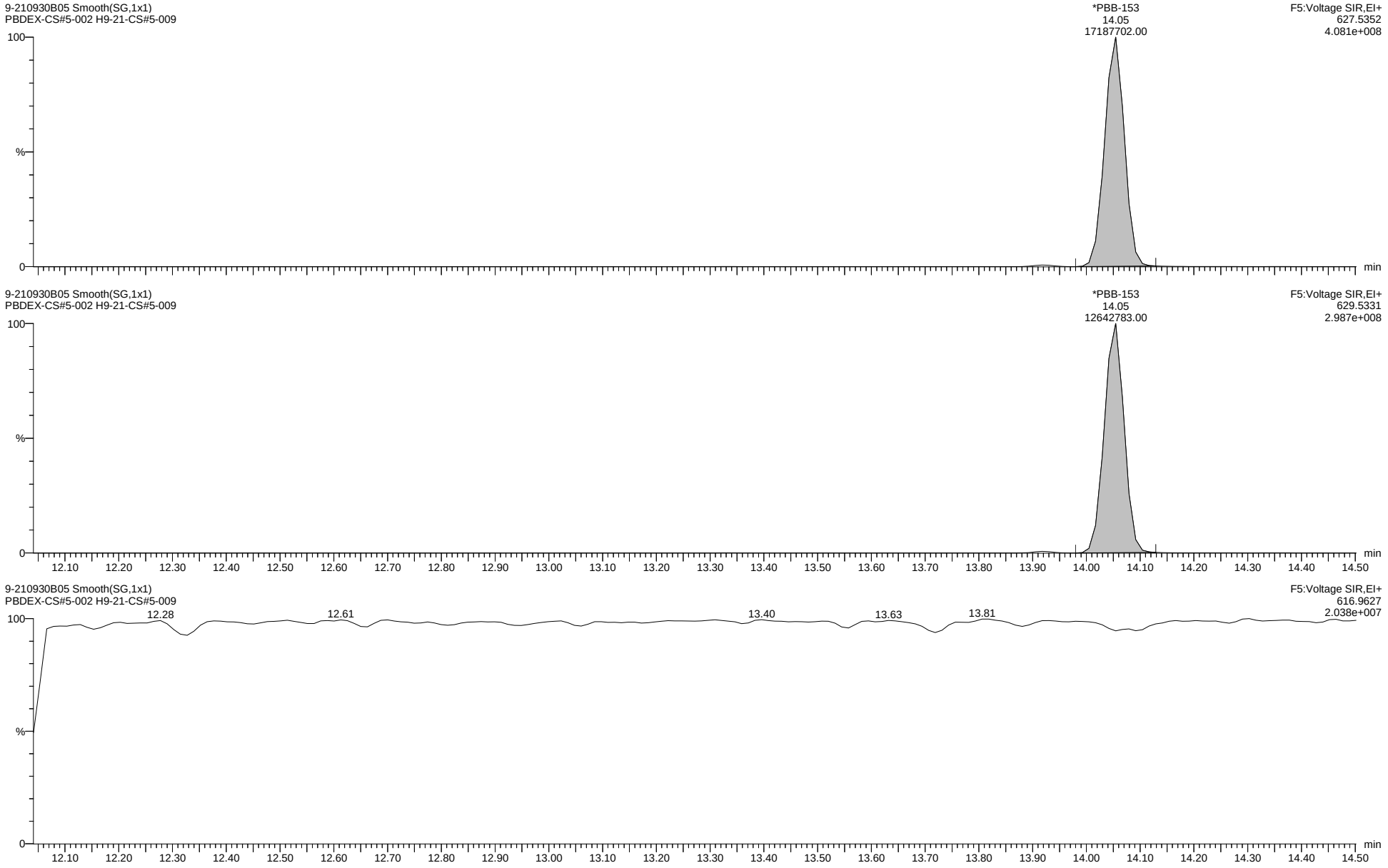
Name: 9-210930B05, Date: 30-Sep-2021, Time: 18:44:07, ID: H9-21-CS#5-009, Description: PBDEX-CS#5-002, Vial: Tray1:44



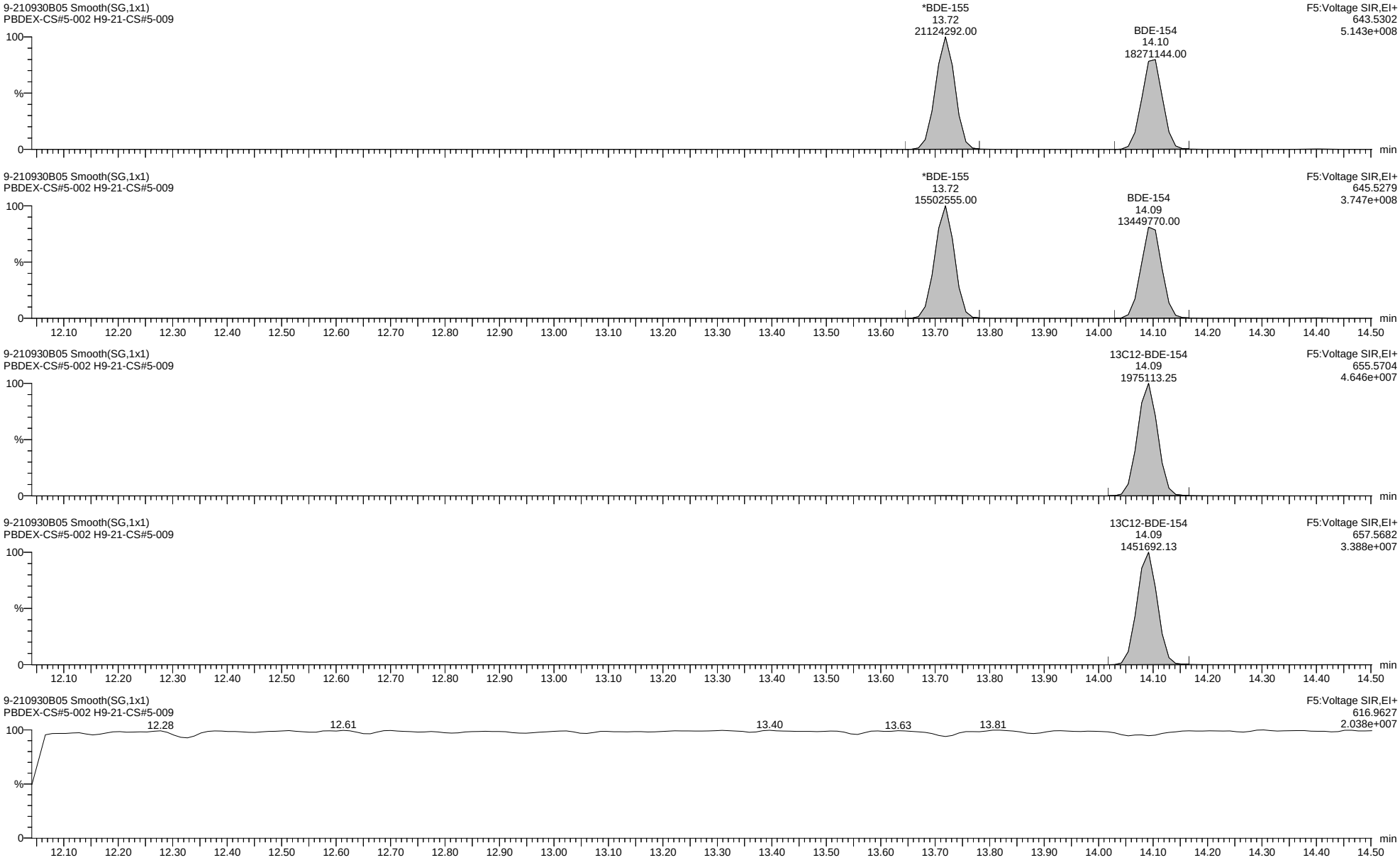
Name: 9-210930B05, Date: 30-Sep-2021, Time: 18:44:07, ID: H9-21-CS#5-009, Description: PBDEX-CS#5-002, Vial: Tray1:44



Name: 9-210930B05, Date: 30-Sep-2021, Time: 18:44:07, ID: H9-21-CS#5-009, Description: PBDEX-CS#5-002, Vial: Tray1:44



Name: 9-210930B05, Date: 30-Sep-2021, Time: 18:44:07, ID: H9-21-CS#5-009, Description: PBDEX-CS#5-002, Vial: Tray1:44



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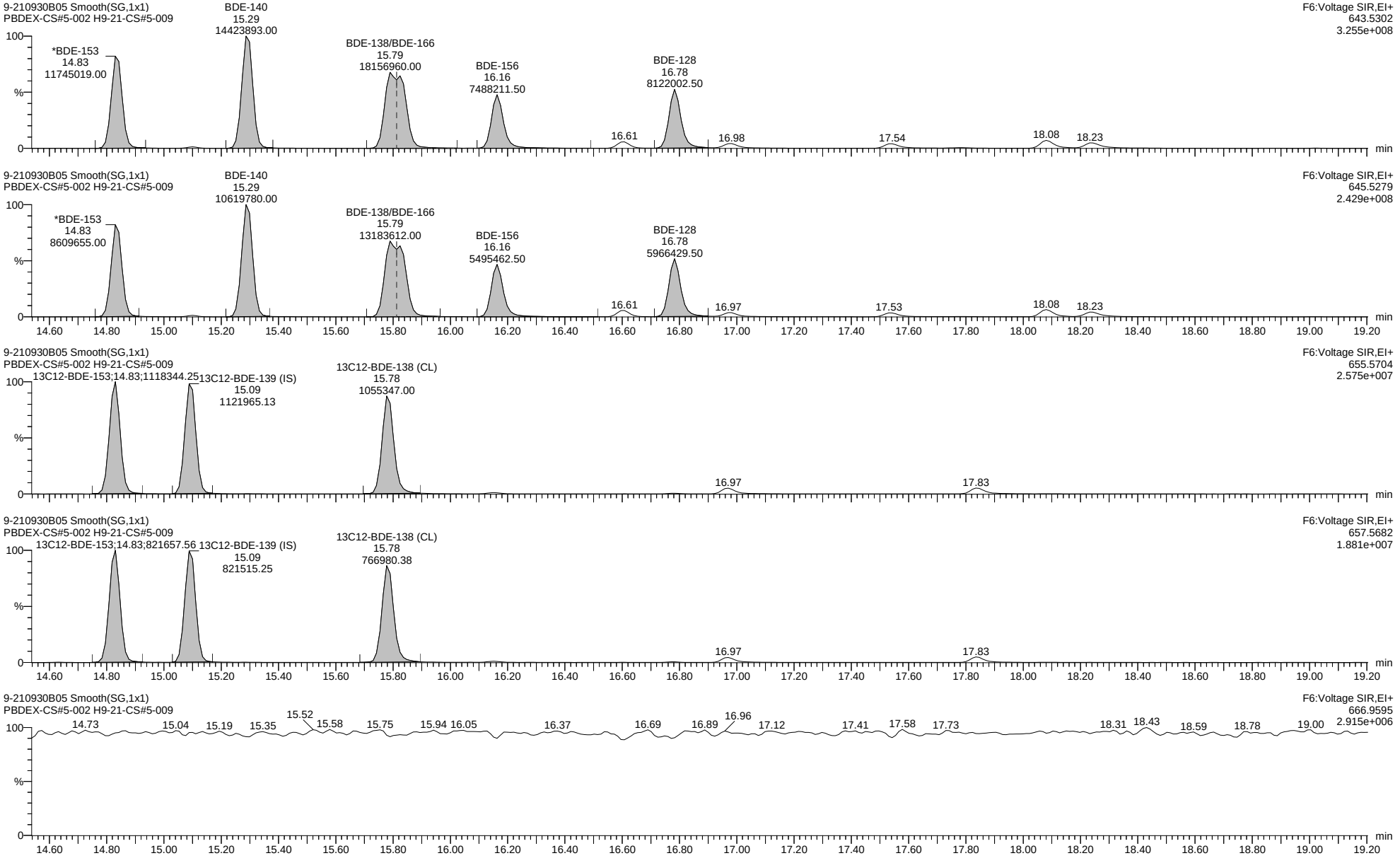

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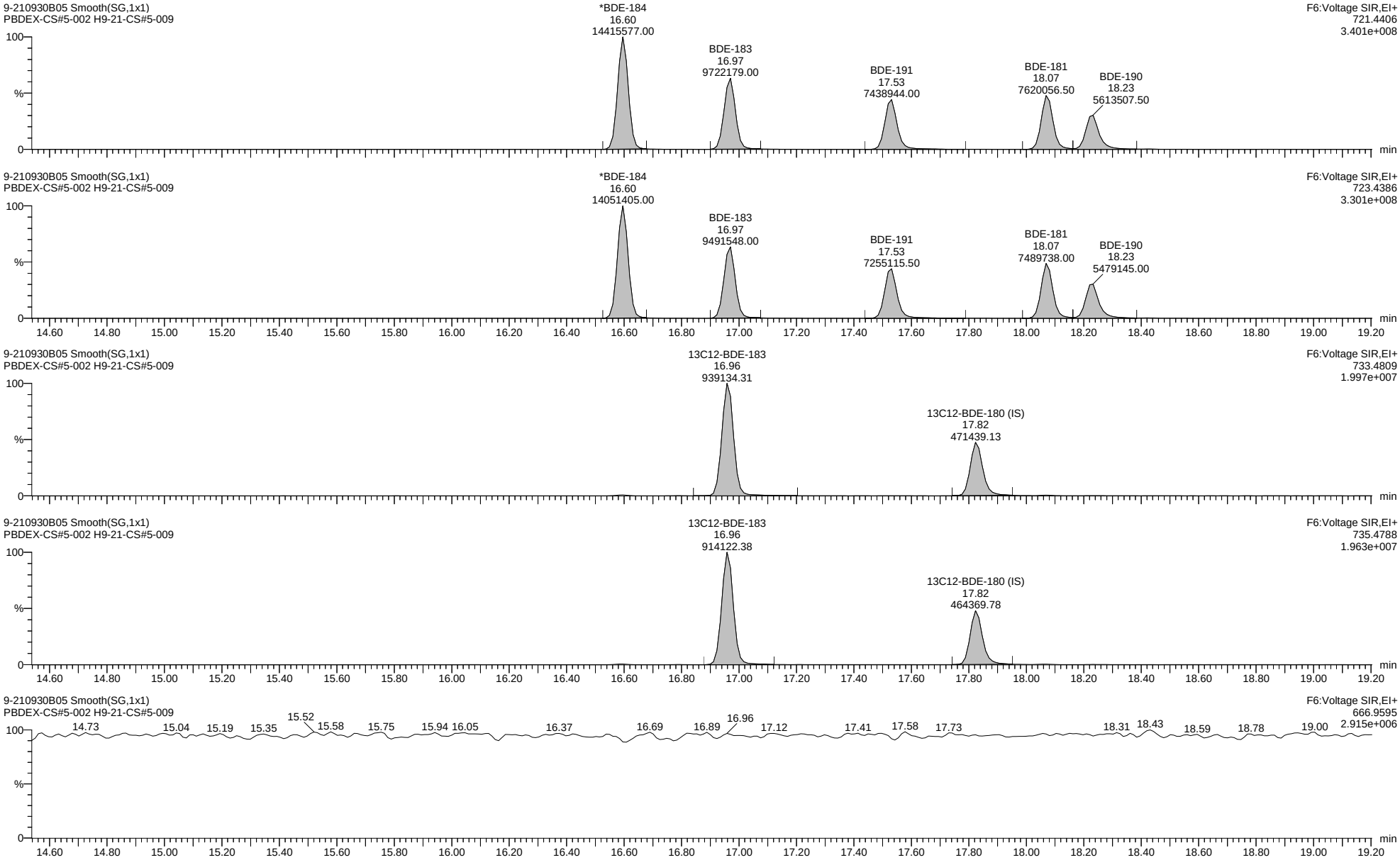
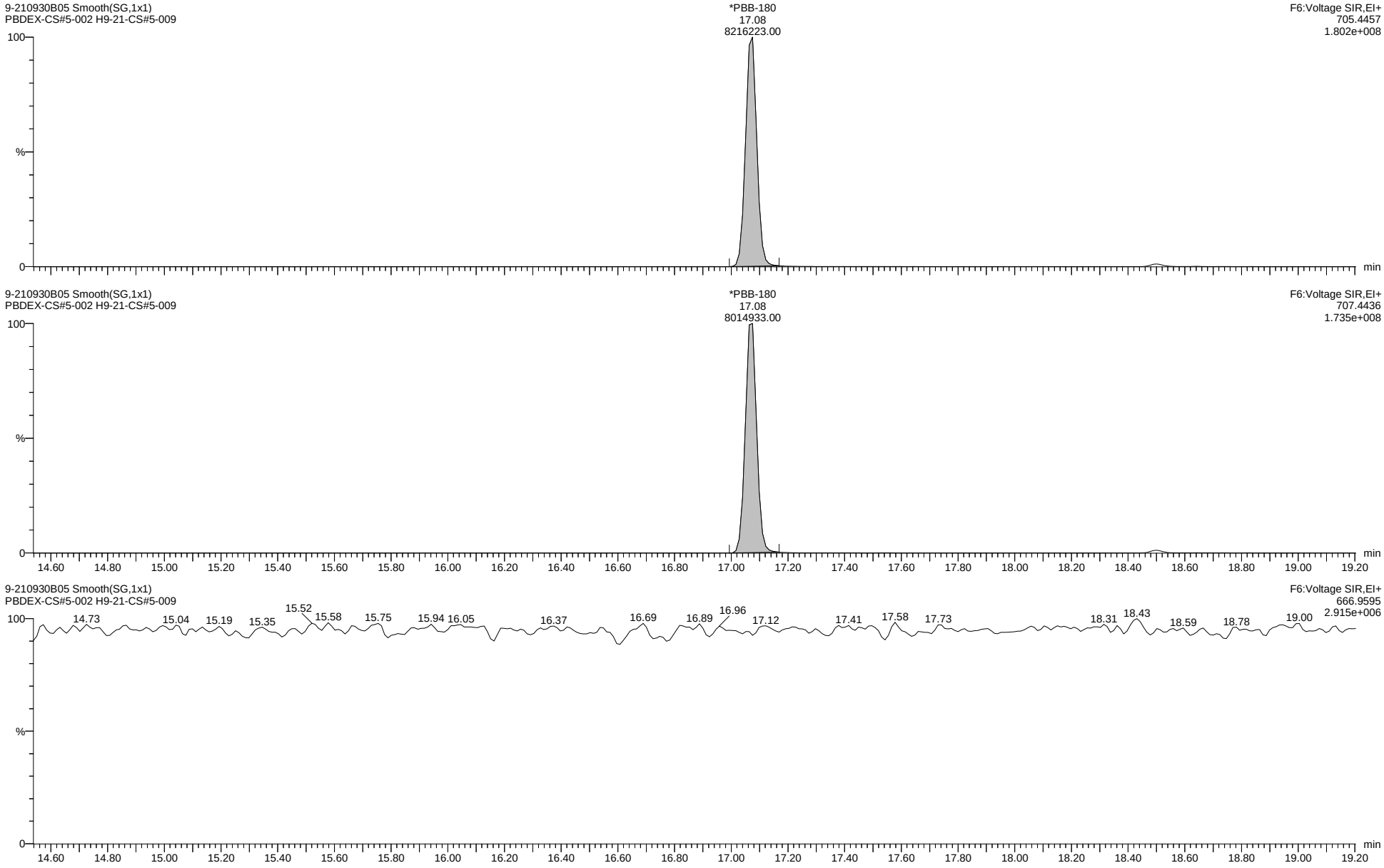


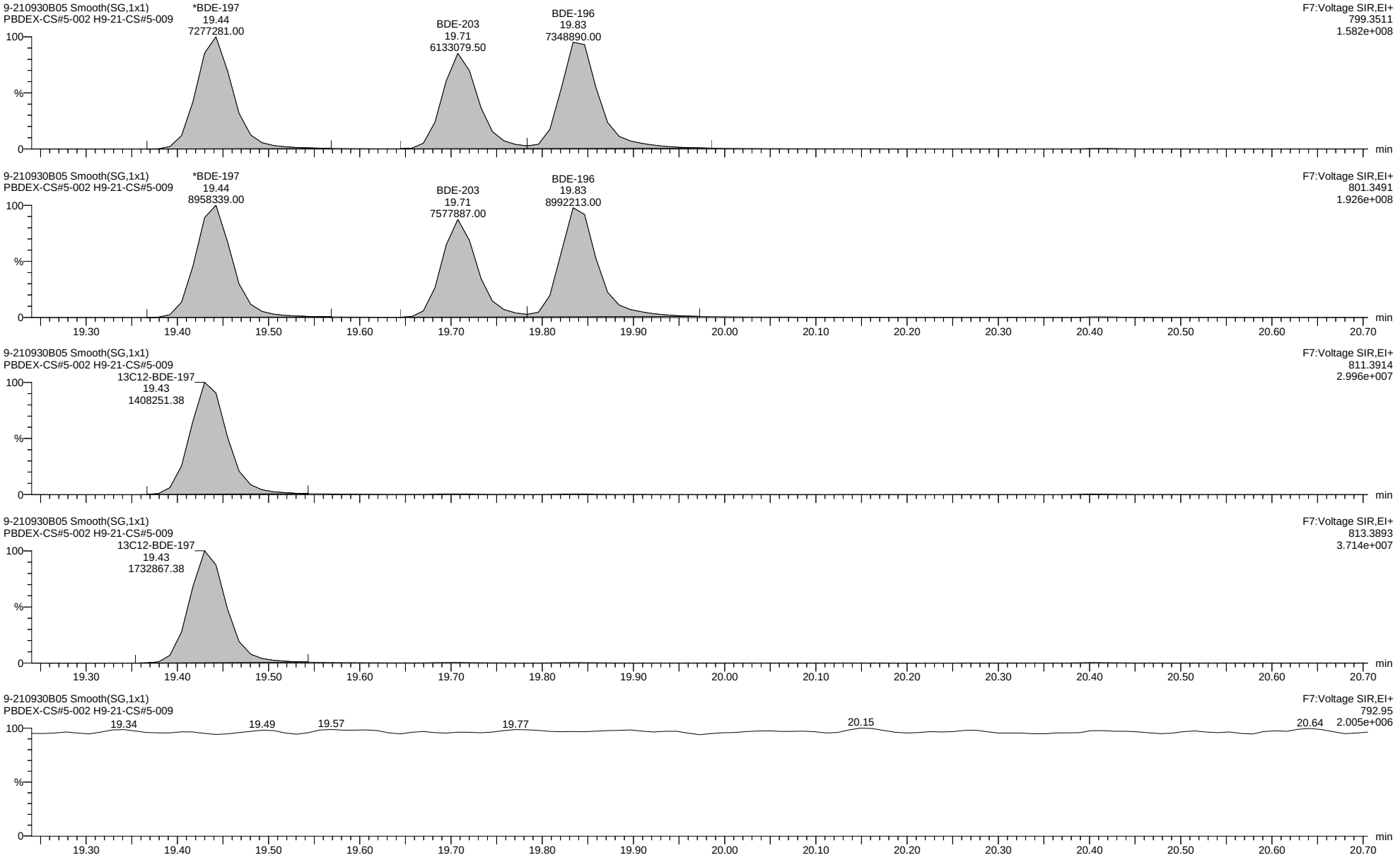
Name: 9-210930B05, Date: 30-Sep-2021, Time: 18:44:07, ID: H9-21-CS#5-009, Description: PBDEX-CS#5-002, Vial: Tray1:44



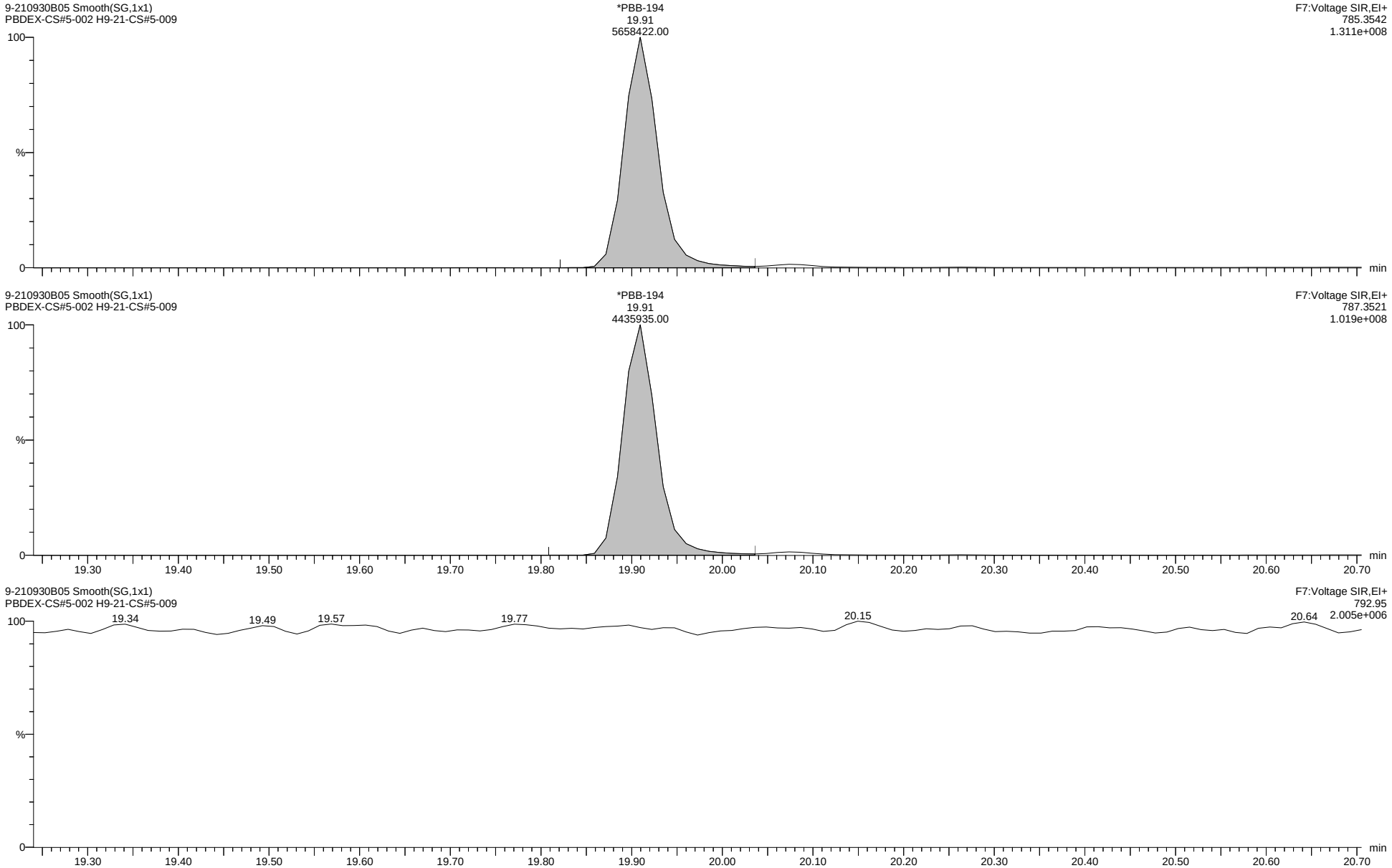
Dataset: I:\Organics Instrument\HIGHRES GCMS Completed Results Files\HR-9\2109\9-210930B-PBDE-ICAL.qld

Last Altered: Friday, October 01, 2021 09:18:22 Eastern Daylight Time
Printed: Thursday, November 18, 2021 10:17:57 Eastern Standard Time

Name: 9-210930B05, Date: 30-Sep-2021, Time: 18:44:07, ID: H9-21-CS#5-009, Description: PBDEX-CS#5-002, Vial: Tray1:44



Name: 9-210930B05, Date: 30-Sep-2021, Time: 18:44:07, ID: H9-21-CS#5-009, Description: PBDEX-CS#5-002, Vial: Tray1:44



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Last Altered: Friday, October 01, 2021 09:18:22 Eastern Daylight Time
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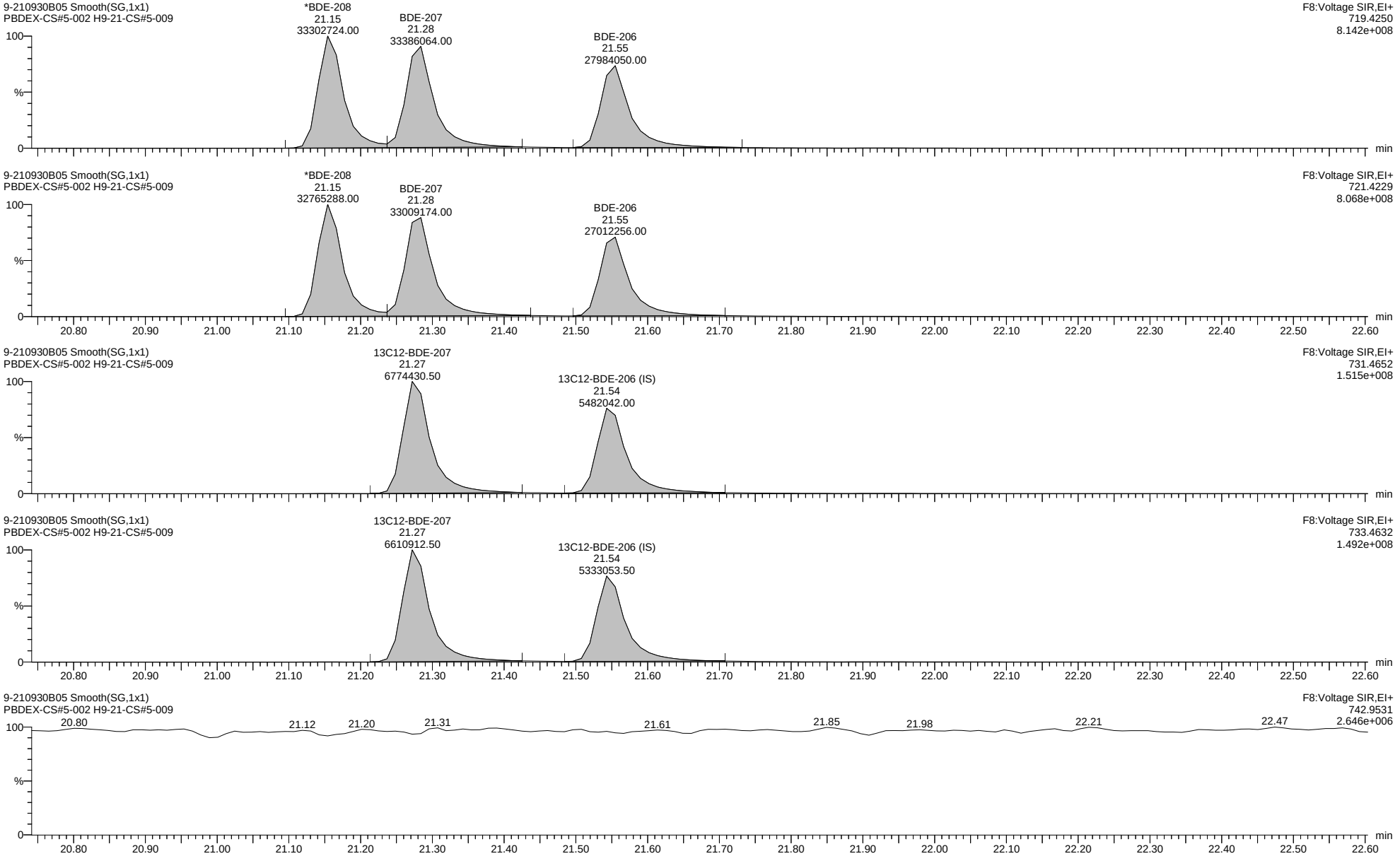
Name: 9-210930B05, Date: 30-Sep-2021, Time: 18:44:07, ID: H9-21-CS#5-009, Description: PBDEX-CS#5-002, Vial: Tray1:44



Dataset: I:\Organics Instrument\HIGHRES GCMS Completed Results Files\HR-9\2109\9-210930B-PBDE-ICAL.qld

Last Altered: Friday, October 01, 2021 09:18:22 Eastern Daylight Time
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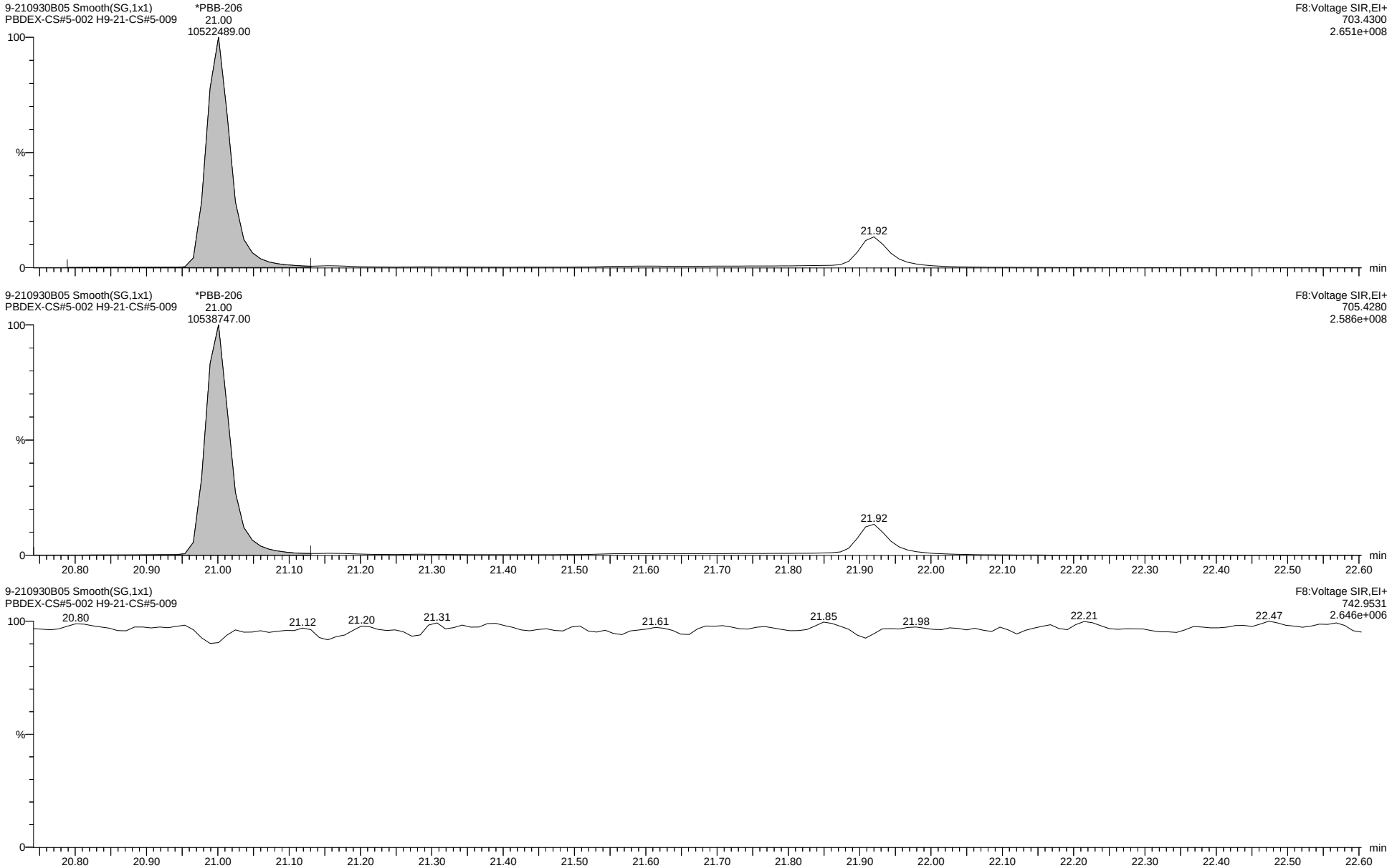
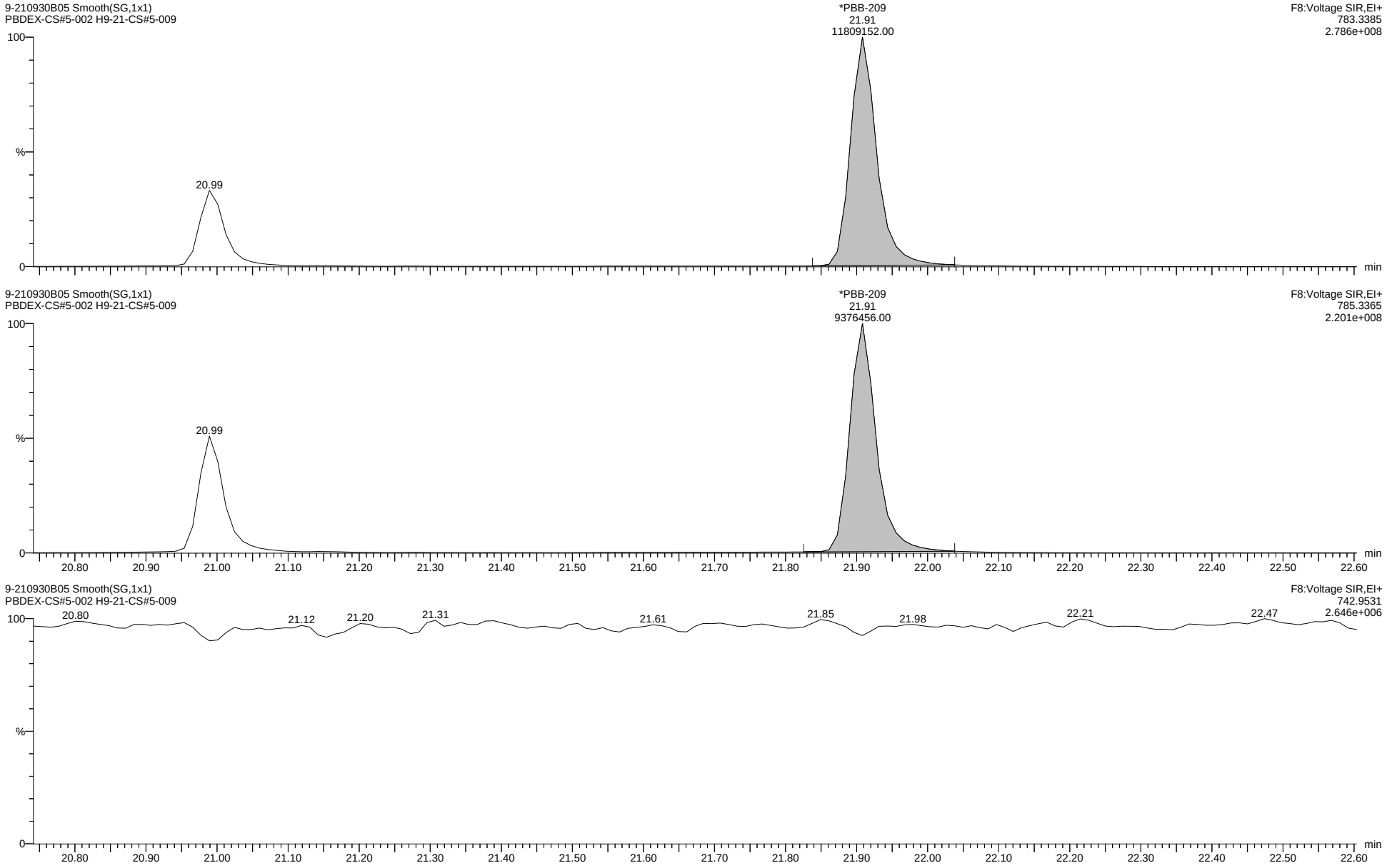
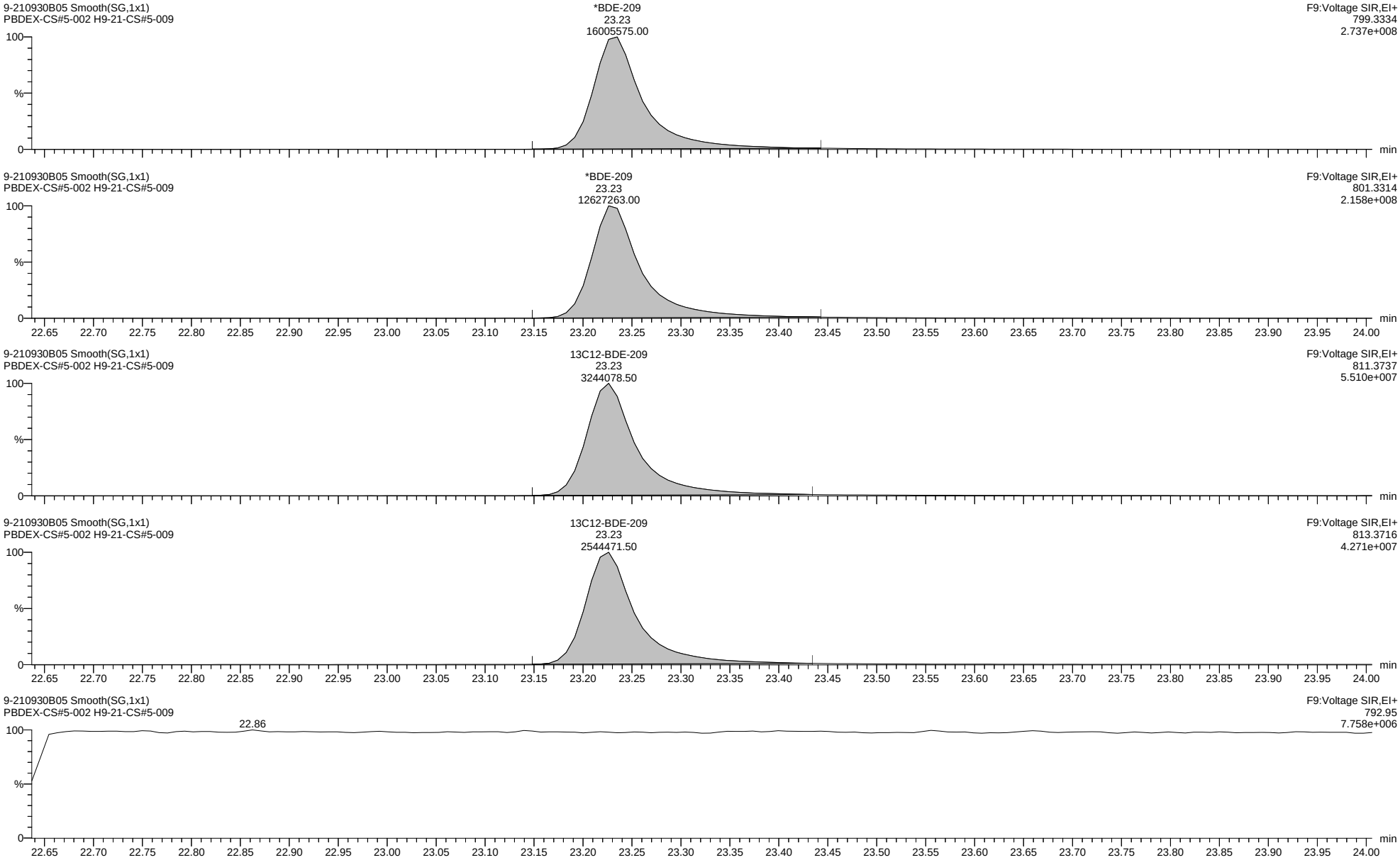
Name: 9-210930B05, Date: 30-Sep-2021, Time: 18:44:07, ID: H9-21-CS#5-009, Description: PBDEX-CS#5-002, Vial: Tray1:44



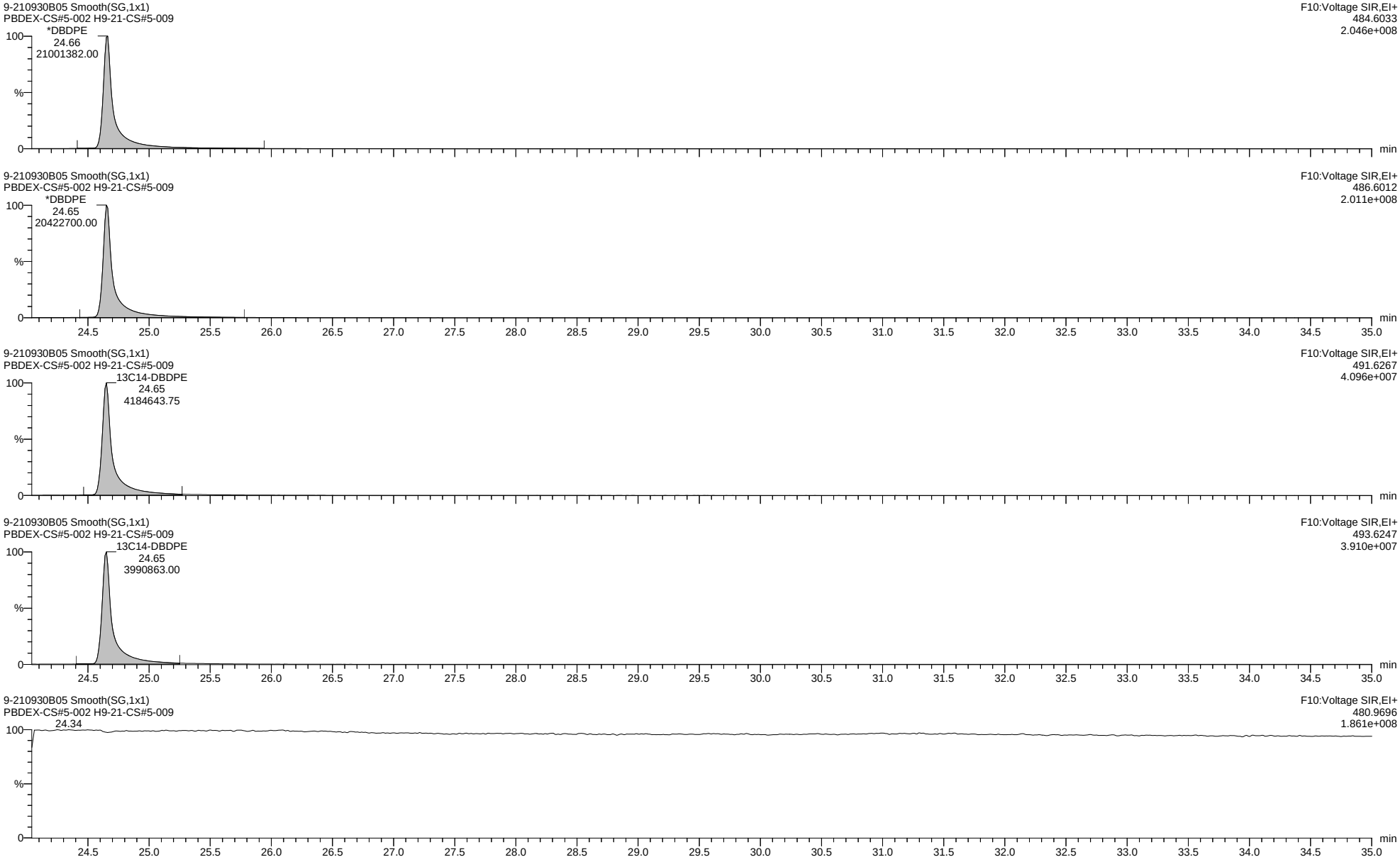
Name: 9-210930B05, Date: 30-Sep-2021, Time: 18:44:07, ID: H9-21-CS#5-009, Description: PBDEX-CS#5-002, Vial: Tray1:44



Name: 9-210930B05, Date: 30-Sep-2021, Time: 18:44:07, ID: H9-21-CS#5-009, Description: PBDEX-CS#5-002, Vial: Tray1:44



Name: 9-210930B05, Date: 30-Sep-2021, Time: 18:44:07, ID: H9-21-CS#5-009, Description: PBDEX-CS#5-002, Vial: Tray1:44



Quantify Sample Summary Report **MassLynx MassLynx V4.1 SCN 901**

Dataset: I:\Organics Instrument\HIGHRES GCMS Completed Results Files\HR-9\2109\9-210930B-PBDE-RS.qld

Last Altered: Friday, October 01, 2021 09:09:20 Eastern Daylight Time
Printed: Thursday, November 18, 2021 10:21:51 Eastern Standard Time

Method: C:\MassLynx\PBDE.PRO\Methods\PBDEX-DB5-1-210930B.mdb 01 Oct 2021 10:08:23
Calibration: C:\MassLynx\PBDE.PRO\CurveDB\9-210930B-PBDEX-ICAL.cdb 01 Oct 2021 10:05:52

Name: 9-210930B07, Date: 30-Sep-2021, Time: 19:57:07, ID: H9-21-RS#2-009, Description: PBDEX-RS#2-002, Vial: Tray1:46

	Target Analyte	#Hom	Total Area	Ion1 Area	Ion2 Area	Ra	Ra Fail=YES	RT	RRT	RT LCL	RT UCL	Conc.	%Rec	Mod.Comment	Noise 1	Noise 2
1	*BDE-1		5861178.0...	2963915	2897263	1.02	NO	4.84	0.96	4.81	4.88	57.048561			54012	92727
2	BDE-2		8823405.0...	4487010	4336395	1.03	NO	4.94	0.98	4.91	4.97	56.561072			54012	92727
3	BDE-3		10524784....	5309870	5214914	1.02	NO	5.04	1.00	5.01	5.08	58.792690			54012	92727
4	*BDE-10		3540519.7...	1201379	2339141	0.51	NO	6.27	0.89	6.23	6.30	60.152052			1518	1979
5	BDE-7		3947776.6...	1345388	2602389	0.52	NO	6.64	0.94	6.61	6.67	62.279822			1518	1979
6	BDE-8/BDE-11		15404.078	5201	10203	0.51	NO	6.82	0.97	6.79	6.86	0.17221592			1518	1979
7	BDE-12/BDE-13		5823.246	1983	3841	0.52	NO	6.92	0.98	6.88	6.95	0.057211761			1518	1979
8	BDE-15		7087416.5...	2412393	4675024	0.52	NO	7.07	1.00	7.03	7.10	58.518762			1518	1979
9	*BDE-30		2829791.3...	1415046	1414746	1.00	NO	7.76	0.90	7.73	7.79	60.537370			5221	7657
10	BDE-32		9073.656	5500	3574	1.54	YES	8.22	0.95	8.18	8.25	0.13908151			5221	7657
11	BDE-17/BDE-25		3516989.0...	1767074	1749915	1.01	NO	8.37	0.97	8.34	8.40	67.585382			5221	7657
12	BDE-28/BDE-33		3906800.6...	1959411	1947390	1.01	NO	8.62	1.00	8.58	8.65	72.916318			5221	7657
13	BDE-35		7164.989	3900	3265	1.19	YES	8.76	1.02	8.73	8.79	0.089911230			5221	7657
14	BDE-37		10249.630	4823	5427	0.89	NO	8.95	1.04	8.92	8.98	0.12876204			5221	7657
15	*PBEB		2290386.8...	1156221	1134166	1.02	NO	8.96	0.90	8.93	8.99	53.653887			1648	1471
16	*PBB-52		992.747	663	330	2.01	YES	9.07	0.91	9.04	9.10	0.024914640			1556	1259
17	*HBB		1817576.8...	529977	1287600	0.41	NO	9.95	1.00	9.92	9.99	50.588435			1512	2378
18	*BDE-75		5233.036	2074	3159	0.66	NO	10.00	0.95	9.97	10.04	0.10370255			8105	8652
19	BDE-51		10842.728	3753	7089	0.53	YES	10.08	0.96	10.04	10.11	0.19437910			8105	8652
20	BDE-49		3983429.2...	1611150	2372279	0.68	NO	10.18	0.97	10.14	10.21	104.01236			8105	8652
21	BDE-71		4392277.6...	1782291	2609987	0.68	NO	10.24	0.98	10.21	10.27	115.99532			8105	8652
22	BDE-47		6635326.5...	2693896	3941431	0.68	NO	10.51	1.00	10.48	10.55	112.48687			8105	8652
23	BDE-79		21767.572	9425	12343	0.76	NO	10.67	1.02	10.64	10.71	0.31850212			8105	8652
24	BDE-66		3640657.8...	1471907	2168751	0.68	NO	10.80	1.03	10.77	10.83	98.840191			8105	8652
25	BDE-77		7036841.2...	2852157	4184684	0.68	NO	11.27	1.00	11.24	11.30	109.02714			8105	8652
26	*PBB-101		78280.754	40043	38238	1.05	NO	11.41	1.01	11.37	11.44	1.7004220			1949	1681
27	*BDE-100		6339448.7...	3206359	3133090	1.02	NO	12.15	1.00	12.12	12.19	114.41211			2604	4853
28	BDE-119/BDE-120		3906135.5...	1993262	1912874	1.04	NO	12.31	1.01	12.28	12.35	150.83773			2604	4853
29	BDE-99		4049750.5...	2044492	2005258	1.02	NO	12.65	1.00	12.62	12.68	115.30892			2604	4853
30	BDE-116		3124.567	1529	1595	0.96	NO	12.81	1.01	12.78	12.85	0.19290151			2604	4853
31	BDE-83		5975.874	3195	2781	1.15	NO	12.95	1.02	12.92	12.98	0.30136157			2604	4853
32	BDE-118		25645.379	12440	13205	0.94	NO	13.06	1.03	13.03	13.09	1.1072227			2604	4853
33	BDE-85		3106013.8...	1568666	1537348	1.02	NO	13.54	0.99	13.51	13.58	116.86979			2604	4853
34	BDE-126		4438803.2...	2239928	2198875	1.02	NO	13.72	1.00	13.69	13.75	110.75951			2604	4853

Quantify Sample Summary Report **MassLynx MassLynx V4.1 SCN 901**

Dataset: I:\Organics Instrument\HIGHRES GCMS Completed Results Files\HR-9\2109\9-210930B-PBDE-RS.qld

Last Altered: Friday, October 01, 2021 09:09:20 Eastern Daylight Time
Printed: Thursday, November 18, 2021 10:21:51 Eastern Standard Time

Name: 9-210930B07, Date: 30-Sep-2021, Time: 19:57:07, ID: H9-21-RS#2-009, Description: PBDEX-RS#2-002, Vial: Tray1:46

	Target Analyte	#Hom	Total Area	Ion1 Area	Ion2 Area	Ra	Ra Fail=YES	RT	RRT	RT LCL	RT UCL	Conc.	%Rec	Mod.Comment	Noise 1	Noise 2
35	BDE-105		2450.738	1341	1110	1.21	YES	13.87	1.01	13.83	13.90	0.10775020			2604	4853
36	*PBB-153		3292135.8...	1894445	1397691	1.36	NO	14.04	1.00	14.01	14.08	106.83435			1588	2806
37	*BDE-155		28092.540	16185	11908	1.36	NO	13.71	0.97	13.67	13.74	0.72508882			2837	1322
38	BDE-154		3758002.0...	2169254	1588748	1.37	NO	14.09	1.00	14.06	14.13	108.54098			2837	1322
39	*BDE-153		2054545.1...	1190157	864388	1.38	NO	14.83	1.00	14.80	14.86	104.58039			10511	5548
40	BDE-140		2491023.2...	1436568	1054456	1.36	NO	15.29	1.01	15.25	15.32	100.21212			10511	5548
41	BDE-138/BDE-166		1692253.1...	976218	716036	1.36	NO	15.78	1.06	15.74	15.81	148.53356			10511	5548
42	BDE-156		3323648.8...	1916379	1407270	1.36	NO	16.15	1.09	16.12	16.18	311.85959			10511	5548
43	BDE-128														10511	5548
44	*BDE-184		4358353.0...	2204909	2153445	1.02	NO	16.60	0.98	16.56	16.63	213.21567			2924	6318
45	BDE-183		3619848.2...	1821257	1798591	1.01	NO	16.96	1.00	16.92	16.99	262.29865			2924	6318
46	BDE-191		1900982.0...	956162	944820	1.01	NO	17.52	1.03	17.49	17.55	203.44423			2924	6318
47	BDE-181														2924	6318
48	BDE-190														2924	6318
49	*PBB-180		2364.826	1024	1341	0.76	YES	17.06	0.96	17.03	17.10	0.16923631			3229	1230
50	*BDE-197		2999075.8...	1356703	1642373	0.83	NO	19.43	1.00	19.40	19.46	220.24644			11806	4802
51	BDE-203		1726458.3...	775475	950984	0.82	NO	19.71	1.01	19.67	19.74	175.94175			11806	4802
52	BDE-196		2020719.8...	908035	1112685	0.82	NO	19.83	1.02	19.80	19.87	183.93635			11806	4802
53	*PBB-194														549	1018
54	*BDE-208		9830530.5...	4969009	4861522	1.02	NO	21.15	0.99	21.12	21.19	545.28346			15961	13460
55	BDE-207		12460792....	6269739	6191053	1.01	NO	21.27	1.00	21.24	21.31	582.93621			15961	13460
56	BDE-206		9343786.0...	4715739	4628047	1.02	NO	21.54	1.01	21.51	21.58	540.65505			15961	13460
57	*PBB-206														914	2001
58	*PBB-209														927	1119
59	*BDE-209		3862157.8...	2158292	1703866	1.27	NO	23.22	1.00	23.18	23.25	547.86451			4395	6396
60	*DBDPE		4473302.2...	2401206	2072097	1.16	NO	24.63	1.00	24.60	24.66	1053.7090			2933	2471
61	13C12-BDE-3		10023205....	5040576	4982629	1.01	NO	5.04	0.47	5.01	5.08	63.140385	126.3		3873	5926
62	13C12-BDE-15		6245417.5...	2128691	4116726	0.52	NO	7.06	0.66	7.02	7.09	56.401177	112.8		5373	14280
63	13C12-BDE-28		3386437.3...	1731170	1655268	1.05	NO	8.60	0.81	8.57	8.64	52.291710	104.6		8338	5045
64	13C6-HBB		1676939.6...	1204113	472826	2.55	NO	9.94	0.93	9.91	9.97	47.021458	94.0		3078	2964
65	13C12-BDE-47		3012483.8...	1835239	1177245	1.56	NO	10.50	0.98	10.47	10.53	52.823171	105.6		5041	3996
66	13C12-BDE-77		3444087.7...	2103041	1341047	1.57	NO	11.26	1.06	11.23	11.29	51.299608	102.6		5041	3996
67	13C12-BDE-100		3207119.1...	1629221	1577898	1.03	NO	12.14	0.80	12.11	12.17	52.298756	104.6		3475	6507
68	13C12-BDE-99		1875956.1...	952439	923517	1.03	NO	12.65	0.84	12.62	12.68	49.665619	99.3		3475	6507
69	13C12-BDE-126		2166480.7...	1098663	1067818	1.03	NO	13.71	0.91	13.67	13.74	45.707206	91.4		3475	6507
70	13C12-BDE-154		1814172.6...	1049567	764606	1.37	NO	14.08	0.93	14.05	14.11	47.923984	95.8		2896	1255
71	13C12-BDE-153		931457.094	541057	390400	1.39	NO	14.82	0.98	14.79	14.85	44.846923	89.7		4656	2898

Quantify Sample Summary Report **MassLynx MassLynx V4.1 SCN 901**

Dataset: I:\Organics Instrument\HIGHRES GCMS Completed Results Files\HR-9\2109\9-210930B-PBDE-RS.qld

Last Altered: Friday, October 01, 2021 09:09:20 Eastern Daylight Time
Printed: Thursday, November 18, 2021 10:21:51 Eastern Standard Time

Name: 9-210930B07, Date: 30-Sep-2021, Time: 19:57:07, ID: H9-21-RS#2-009, Description: PBDEX-RS#2-002, Vial: Tray1:46

	Target Analyte	#Hom	Total Area	Ion1 Area	Ion2 Area	Ra	Ra Fail=YES	RT	RRT	RT LCL	RT UCL	Conc.	%Rec	Mod.Comment	Noise 1	Noise 2
72	13C12-BDE-183		828503.594	418102	410402	1.02	NO	16.96	0.95	16.92	16.99	45.563948	91.1		1719	1721
73	13C12-BDE-197		1670316.6...	749776	920541	0.81	NO	19.43	1.09	19.40	19.46	107.76265	107.8		2282	3714
74	13C12-BDE-207		5348805.7...	2692759	2656047	1.01	NO	21.27	0.99	21.24	21.31	260.76142	104.3		8706	5381
75	13C12-BDE-209		1793044.0...	997435	795609	1.25	NO	23.21	1.08	23.18	23.24	238.74265	95.5		7193	4611
76	13C14-DBDPE		2177693.1...	1107417	1070276	1.03	NO	24.62	1.14	24.59	24.65	454.94995	91.0		3404	4299
77	13C12-BDE-138 (CL)		809555.407	465864	343692	1.36	NO	15.78	1.05	15.74	15.81	43.206590	86.4		4656	2898
78	13C12-BDE-79 (IS)		3374397.2...	2055139	1319258	1.56	NO	10.66	0.71	10.63	10.70	36.226766	72.5		5041	3996
79	13C12-BDE-139 (IS)		1195644.2...	696430	499214	1.40	NO	15.09	0.00	15.05	15.12	36.320933	72.6		4656	2898
80	13C12-BDE-180 (IS)		501864.406	253293	248572	1.02	NO	17.82	1.18	17.79	17.86	36.414965	72.8		1719	1721
81	13C12-BDE-206 (IS)		4071957.8...	2061744	2010214	1.03	NO	21.54	1.43	21.51	21.58	166.38271	66.6		8706	5381
82	Total MoF1	3		12760795								172.40232			54012	
83	Total DiF2	5		4966343								181.18006			1518	
84	Total TriF3	6		5155753								201.39683			5221	
85	Total PBEBF3	1		1156221								53.653887			1648	
86	Total TePBBF3	1		663								0.024914640			1556	
87	Total HBBF4	1		529977								50.588435			1512	
88	Total TetraF4	8		10426654								540.97846			8105	
89	Total PePBBF4	1		40043								1.7004220			1949	
90	Total PentaF5	9		11071212								609.89729			2604	
91	Total PBB-153	1		1894445								106.83435			1588	
92	Total HexaF5	2		2185439								109.26606			2837	
93	Total HexaF6	4		5519321								665.18567			10511	
94	Total HeptaF6	3		4982328								678.95855			2924	
95	Total PBB-180	1		1024								0.16923631			3229	
96	Total OctaF7	3		3040213								580.12455			11806	
97	Total PBB-194			0											549	
98	Total NonaF8	3		15954487								1668.8747			15961	
99	Total PBB-206			0											914	
100	Total PBB-209			0											927	
101	Total DecaF9	1		2158292								547.86451			4395	
102	Total DBDPEF10															
103	Total 13CMoF1	1		5040576								63.140385			3873	
104	Total 13CDiF2	1		2128691								56.401177			5373	
105	Total 13CTriF3	1		1731170								52.291710			8338	
106	Total 13CHBBF4	1		1204113								47.021458			3078	
107	Total 13CTetraF4	3		5993419								140.34954			5041	
108	Total 13CPentaF5	3		3680323								147.67158			3475	

Quantify Sample Summary Report **MassLynx MassLynx V4.1 SCN 901**

Dataset: I:\Organics Instrument\HIGHRES GCMS Completed Results Files\HR-9\2109\9-210930B-PBDE-RS.qld

Last Altered: Friday, October 01, 2021 09:09:20 Eastern Daylight Time
Printed: Thursday, November 18, 2021 10:21:51 Eastern Standard Time

Name: 9-210930B07, Date: 30-Sep-2021, Time: 19:57:07, ID: H9-21-RS#2-009, Description: PBDEX-RS#2-002, Vial: Tray1:46

	Target Analyte	#Hom	Total Area	Ion1 Area	Ion2 Area	Ra	Ra Fail=YES	RT	RRT	RT LCL	RT UCL	Conc.	%Rec	Mod.Comment	Noise 1	Noise 2
109	Total 13CHexaF5	1		1049567								47.923984			2896	
110	Total 13CHexaF6	3		1703351								124.37444			4656	
111	Total 13CHeptaF6	2		671395								81.978913			1719	
112	Total 13COctaF7	1		749776								107.76265			2282	
113	Total 13CNonaF8	2		4754503								427.14413			8706	
114	Total 13CDecaF9	1		997435								238.74265			7193	
115	Total 13CDBDPEF10															
116	Lockmass F1			0											573501	
117	Lockmass F2			0											1857293	
118	Lockmass F3			0											547282	
119	Lockmass F4			0											312753	
120	Lockmass F5			0											172427	
121	Lockmass F6			0											82323	
122	Lockmass F7			0											45153	
123	Lockmass F8			0											50173	
124	Lockmass F9			0											86790	
125	Lockmass F10															

Quantify Sample Summary Report **MassLynx MassLynx V4.1 SCN 901**

Dataset: I:\Organics Instrument\HIGHRES GCMS Completed Results Files\HR-9\2109\9-210930B-PBDE-RS.qld

Last Altered: Friday, October 01, 2021 09:09:20 Eastern Daylight Time
Printed: Thursday, November 18, 2021 10:21:51 Eastern Standard Time

Name: 9-210930B08, Date: 30-Sep-2021, Time: 20:33:37, ID: H9-21-RS#3-009, Description: PBDEX-RS#3-002, Vial: Tray1:47

	Target Analyte	#Hom	Total Area	Ion1 Area	Ion2 Area	Ra	Ra Fail=YES	RT	RRT	RT LCL	RT UCL	Conc.	%Rec	Mod.Comment	Noise 1	Noise 2
1	*BDE-1														64778	90941
2	BDE-2														64778	90941
3	BDE-3														64778	90941
4	*BDE-10														1745	2897
5	BDE-7		4008.217	1520	2488	0.61	YES	6.65	0.94	6.62	6.68	0.059610180			1745	2897
6	BDE-8/BDE-11														1745	2897
7	BDE-12/BDE-13														1745	2897
8	BDE-15		1339.543	477	863	0.55	NO	7.07	1.00	7.04	7.11	0.010426493			1745	2897
9	*BDE-30														4073	5202
10	BDE-32		15968.195	8134	7834	1.04	NO	8.22	0.95	8.18	8.25	0.21344690			4073	5202
11	BDE-17/BDE-25		3930963.6...	1971372	1959592	1.01	NO	8.38	0.97	8.35	8.42	65.876075			4073	5202
12	BDE-28/BDE-33		4087713.6...	2057091	2030623	1.01	NO	8.62	1.00	8.58	8.65	66.532045			4073	5202
13	BDE-35														4073	5202
14	BDE-37		3147.086	1617	1530	1.06	NO	8.96	1.04	8.93	8.99	0.034477456			4073	5202
15	*PBEB														1438	1441
16	*PBB-52														1955	1406
17	*HBB		1801.564	448	1353	0.33	YES	9.95	1.00	9.92	9.99	0.041468902			805	1438
18	*BDE-75														4547	7228
19	BDE-51		5746.511	2165	3582	0.60	NO	10.08	0.96	10.04	10.11	0.085371982			4547	7228
20	BDE-49														4547	7228
21	BDE-71		2309346.5...	936363	1372984	0.68	NO	10.25	0.98	10.22	10.29	50.540543			4547	7228
22	BDE-47		3821116.625	1548555	2272561	0.68	NO	10.51	1.00	10.48	10.55	53.646431			4547	7228
23	BDE-79		3529.118	1546	1983	0.78	NO	10.67	1.02	10.64	10.71	0.042792596			4547	7228
24	BDE-66		2266159.2...	916029	1350130	0.68	NO	10.80	1.03	10.77	10.83	50.985214			4547	7228
25	BDE-77		35857.999	14416	21442	0.67	NO	11.27	1.00	11.24	11.30	0.46067650			4547	7228
26	*PBB-101		5319.376	2847	2473	1.15	NO	11.42	1.01	11.39	11.45	0.095755236			1651	1600
27	*BDE-100		3670931.6...	1862188	1808744	1.03	NO	12.15	1.00	12.12	12.19	52.705280			2321	2149
28	BDE-119/BDE-120		15254.079	7825	7429	1.05	NO	12.33	1.01	12.29	12.36	0.47320489			2321	2149
29	BDE-99		2453497.7...	1240321	1213177	1.02	NO	12.66	1.00	12.63	12.70	55.141110			2321	2149
30	BDE-116		2114.211	1149	965	1.19	YES	12.81	1.01	12.78	12.85	0.10485634			2321	2149
31	BDE-83		5332.347	2509	2824	0.89	NO	12.95	1.02	12.92	12.98	0.21602569			2321	2149
32	BDE-118		10584.492	5241	5343	0.98	NO	13.07	1.03	13.04	13.11	0.36711019			2321	2149
33	BDE-85		1770406.1...	895999	874407	1.02	NO	13.56	0.99	13.52	13.59	53.514605			2321	2149
34	BDE-126		9326.704	4720	4607	1.02	NO	13.72	1.00	13.69	13.75	0.19272279			2321	2149
35	BDE-105		15428.593	7610	7818	0.97	NO	13.88	1.01	13.85	13.91	0.54493923			2321	2149
36	*PBB-153		8742.102	5521	3221	1.71	YES	14.05	1.00	14.02	14.09	0.22855160			1438	1912
37	*BDE-155		10892.830	6374	4519	1.41	NO	13.72	0.97	13.69	13.75	0.22650416			2972	944

Quantify Sample Summary Report **MassLynx MassLynx V4.1 SCN 901**

Dataset: I:\Organics Instrument\HIGHRES GCMS Completed Results Files\HR-9\2109\9-210930B-PBDE-RS.qld

Last Altered: Friday, October 01, 2021 09:09:20 Eastern Daylight Time
Printed: Thursday, November 18, 2021 10:21:51 Eastern Standard Time

Name: 9-210930B08, Date: 30-Sep-2021, Time: 20:33:37, ID: H9-21-RS#3-009, Description: PBDEX-RS#3-002, Vial: Tray1:47

	Target Analyte	#Hom	Total Area	Ion1 Area	Ion2 Area	Ra	Ra Fail=YES	RT	RRT	RT LCL	RT UCL	Conc.	%Rec	Mod.Comment	Noise 1	Noise 2
38	BDE-154		2117538.8...	1219774	897765	1.36	NO	14.10	1.00	14.07	14.14	50.243870			2972	944
39	*BDE-153		1208050.2...	700289	507761	1.38	NO	14.83	1.00	14.80	14.86	47.741907			5590	3699
40	BDE-140		24236.263	13857	10379	1.34	NO	15.29	1.01	15.25	15.32	0.78549493			5590	3699
41	BDE-138/BDE-166		1611323.4...	938875	672449	1.40	NO	15.79	1.06	15.76	15.82	113.94027			5590	3699
42	BDE-156		1300.283	651	650	1.00	YES	16.15	1.09	16.12	16.18	0.098291761			5590	3699
43	BDE-128		5446.537	2950	2497	1.18	NO	16.78	0.99	16.75	16.82	0.36649463			5590	3699
44	*BDE-184		3802.471	1793	2009	0.89	NO	16.60	0.98	16.56	16.63	0.16425207			1544	1763
45	BDE-183		905935.656	455471	450465	1.01	NO	16.97	1.00	16.94	17.00	57.963057			1544	1763
46	BDE-191		708.239	455	253	1.80	YES	17.53	1.03	17.50	17.56	0.066926088			1544	1763
47	BDE-181														1544	1763
48	BDE-190		358742.094	182395	176347	1.03	NO	18.22	1.02	18.19	18.25	49.162491			1544	1763
49	*PBB-180		1489.637	837	653	1.28	YES	17.06	0.96	17.03	17.10	0.094128912			3201	1147
50	*BDE-197		1338.838	580	758	0.77	NO	19.44	1.00	19.41	19.48	0.11201877			1391	678
51	BDE-203														1391	678
52	BDE-196														1391	678
53	*PBB-194														495	1265
54	*BDE-208		3522.476	1900	1622	1.17	NO	21.15	0.99	21.12	21.19	0.24420461			6670	2252
55	BDE-207		9720.129	4531	5189	0.87	YES	21.27	1.00	21.24	21.31	0.56833952			6670	2252
56	BDE-206		19603.071	9736	9867	0.99	NO	21.54	1.01	21.51	21.58	1.4176922			6670	2252
57	*PBB-206														1166	2541
58	*PBB-209														875	837
59	*BDE-209		1484914.9...	833929	650986	1.28	NO	23.23	1.00	23.19	23.26	190.06084			7086	2925
60	*DBDPE		2963.871	677	2287	0.30	YES	24.63	1.00	24.60	24.66	0.72701238			940	1416
61	13C12-BDE-3		9992858.5...	5028021	4964838	1.01	NO	5.04	0.47	5.01	5.08	51.066570	102.1		2787	7070
62	13C12-BDE-15		6625018.0...	2250351	4374667	0.51	NO	7.07	0.66	7.03	7.10	48.535565	97.1		8392	12113
63	13C12-BDE-28		3883256.8...	1982615	1900642	1.04	NO	8.62	0.81	8.58	8.65	48.644333	97.3		3595	3980
64	13C6-HBB		2027697.0...	1455880	571817	2.55	NO	9.95	0.93	9.92	9.99	46.124115	92.2		3912	2095
65	13C12-BDE-47		3637589.8...	2215780	1421810	1.56	NO	10.51	0.98	10.48	10.55	51.743977	103.5		3042	8150
66	13C12-BDE-77		4153565.3...	2534861	1618704	1.57	NO	11.27	1.06	11.24	11.30	50.188847	100.4		3042	8150
67	13C12-BDE-100		4031417.2...	2051315	1980102	1.04	NO	12.15	0.80	12.12	12.19	53.966042	107.9		5033	3977
68	13C12-BDE-99		2376662.2...	1199783	1176879	1.02	NO	12.65	0.84	12.62	12.68	51.652006	103.3		5033	3977
69	13C12-BDE-126		2616164.8...	1326486	1289679	1.03	NO	13.72	0.91	13.69	13.75	45.308690	90.6		5033	3977
70	13C12-BDE-154		2208328.3...	1278476	929852	1.37	NO	14.09	0.93	14.06	14.13	47.887756	95.8		3368	1585
71	13C12-BDE-153		1199727.6...	695288	504440	1.38	NO	14.83	0.98	14.80	14.86	47.417538	94.8		5076	3252
72	13C12-BDE-183		938309.594	474412	463897	1.02	NO	16.96	0.95	16.92	16.99	52.376252	104.8		2458	1775
73	13C12-BDE-197		1466079.3...	655558	810522	0.81	NO	19.43	1.09	19.40	19.46	96.003761	96.0		5715	3769
74	13C12-BDE-207		4279533.0...	2158878	2120655	1.02	NO	21.27	0.99	21.24	21.31	239.48925	95.8		11111	13542

Quantify Sample Summary Report **MassLynx MassLynx V4.1 SCN 901**

Dataset: I:\Organics Instrument\HIGHRES GCMS Completed Results Files\HR-9\2109\9-210930B-PBDE-RS.qld

Last Altered: Friday, October 01, 2021 09:09:20 Eastern Daylight Time
Printed: Thursday, November 18, 2021 10:21:51 Eastern Standard Time

Name: 9-210930B08, Date: 30-Sep-2021, Time: 20:33:37, ID: H9-21-RS#3-009, Description: PBDEX-RS#3-002, Vial: Tray1:47

	Target Analyte	#Hom	Total Area	Ion1 Area	Ion2 Area	Ra	Ra Fail=YES	RT	RRT	RT LCL	RT UCL	Conc.	%Rec	Mod.Comment	Noise 1	Noise 2
75	13C12-BDE-209		1987206.6...	1114131	873076	1.28	NO	23.22	1.08	23.18	23.25	303.72828	121.5		4907	5865
76	13C14-DBDPE		2091253.2...	1066382	1024872	1.04	NO	24.62	1.14	24.59	24.65	501.50666	100.3		3801	5035
77	13C12-BDE-138 (CL)		1064115.5...	615894	448222	1.37	NO	15.78	1.04	15.74	15.81	46.620696	93.2		5076	3252
78	13C12-BDE-79 (IS)		4159583.7...	2529794	1629790	1.55	NO	10.67	0.71	10.64	10.71	44.656350	89.3		3042	8150
79	13C12-BDE-139 (IS)		1456516.5...	836921	619596	1.35	NO	15.10	0.00	15.07	15.13	44.245636	88.5		5076	3252
80	13C12-BDE-180 (IS)		494453.078	252578	241875	1.04	NO	17.82	1.18	17.79	17.86	35.877204	71.8		2458	1775
81	13C12-BDE-206 (IS)		3547318.1...	1792446	1754873	1.02	NO	21.54	1.43	21.51	21.58	144.94561	58.0		11111	13542
82	Total MoF1			0											64778	
83	Total DiF2	2		1997								0.070036672			1745	
84	Total TriF3	4		4038214								132.65604			4073	
85	Total PBEBF3			0											1438	
86	Total TePBBF3			0											1955	
87	Total HBBF4	1		448								0.041468902			805	
88	Total TetraF4	6		3419073								155.76103			4547	
89	Total PePBBF4	1		2847								0.095755236			1651	
90	Total PentaF5	9		4027562								163.25985			2321	
91	Total PBB-153	1		5521								0.22855160			1438	
92	Total HexaF5	2		1226148								50.470374			2972	
93	Total HexaF6	5		1656621								162.93246			5590	
94	Total HeptaF6	4		640115								107.35673			1544	
95	Total PBB-180	1		837								0.094128912			3201	
96	Total OctaF7	1		580								0.11201877			1391	
97	Total PBB-194			0											495	
98	Total NonaF8	3		16167								2.2302363			6670	
99	Total PBB-206			0											1166	
100	Total PBB-209			0											875	
101	Total DecaF9	1		833929								190.06084			7086	
102	Total DBDPEF10															
103	Total 13CMoF1	1		5028021								51.066570			2787	
104	Total 13CDiF2	1		2250351								48.535565			8392	
105	Total 13CTriF3	1		1982615								48.644333			3595	
106	Total 13CHBBF4	1		1455880								46.124115			3912	
107	Total 13CTetraF4	3		7280435								146.58917			3042	
108	Total 13CPentaF5	3		4577584								150.92674			5033	
109	Total 13CHexaF5	1		1278476								47.887756			3368	
110	Total 13CHexaF6	3		2148102								138.28387			5076	
111	Total 13CHeptaF6	2		726990								88.253456			2458	

Quantify Sample Summary Report **MassLynx MassLynx V4.1 SCN 901**

Dataset: I:\Organics Instrument\HIGHRES GCMS Completed Results Files\HR-9\2109\9-210930B-PBDE-RS.qld

Last Altered: Friday, October 01, 2021 09:09:20 Eastern Daylight Time
Printed: Thursday, November 18, 2021 10:21:51 Eastern Standard Time

Name: 9-210930B08, Date: 30-Sep-2021, Time: 20:33:37, ID: H9-21-RS#3-009, Description: PBDEX-RS#3-002, Vial: Tray1:47

	Target Analyte	#Hom	Total Area	Ion1 Area	Ion2 Area	Ra	Ra Fail=YES	RT	RRT	RT LCL	RT UCL	Conc.	%Rec	Mod.Comment	Noise 1	Noise 2
112	Total 13COctaF7	1		655558								96.003761			5715	
113	Total 13CNonaF8	2		3951324								384.43486			11111	
114	Total 13CDecaF9	1		1114131								303.72828			4907	
115	Total 13CDBDPEF10															
116	Lockmass F1			0											601633	
117	Lockmass F2			0											1399889	
118	Lockmass F3			0											756923	
119	Lockmass F4			0											388874	
120	Lockmass F5			0											178384	
121	Lockmass F6			0											79396	
122	Lockmass F7			0											43392	
123	Lockmass F8			0											54757	
124	Lockmass F9			0											103050	
125	Lockmass F10															

Quantify Audit Report MassLynx MassLynx V4.1 SCN 901

Dataset: I:\Organics Instrument\HIGHRES GCMS Completed Results Files\HR-9\2109\9-210930B-PBDE-RS.qld

Last Altered: Friday, October 01, 2021 09:09:20 Eastern Daylight Time
Printed: Thursday, November 18, 2021 10:21:51 Eastern Standard Time

Date	Time	Event	Details	Comments
01-Oct-21	09:09:19	Process Extract		
01-Oct-21	09:09:19	Process Integrate		
01-Oct-21	09:09:20	Process Quantify		
01-Oct-21	09:09:20	Dataset Created		
01-Oct-21	09:09:31	Dataset Saved	Saved to 'I:\Organics Instrument\HIGHRES GCMS Complete...	

Quantify Sample Template Report **MassLynx MassLynx V4.1 SCN 901**

Dataset: I:\Organics Instrument\HIGHRES GCMS Completed Results Files\HR-9\2109\9-210930B-PBDE-RS.qld

Last Altered: Friday, October 01, 2021 09:09:20 Eastern Daylight Time
Printed: Thursday, November 18, 2021 10:21:51 Eastern Standard Time

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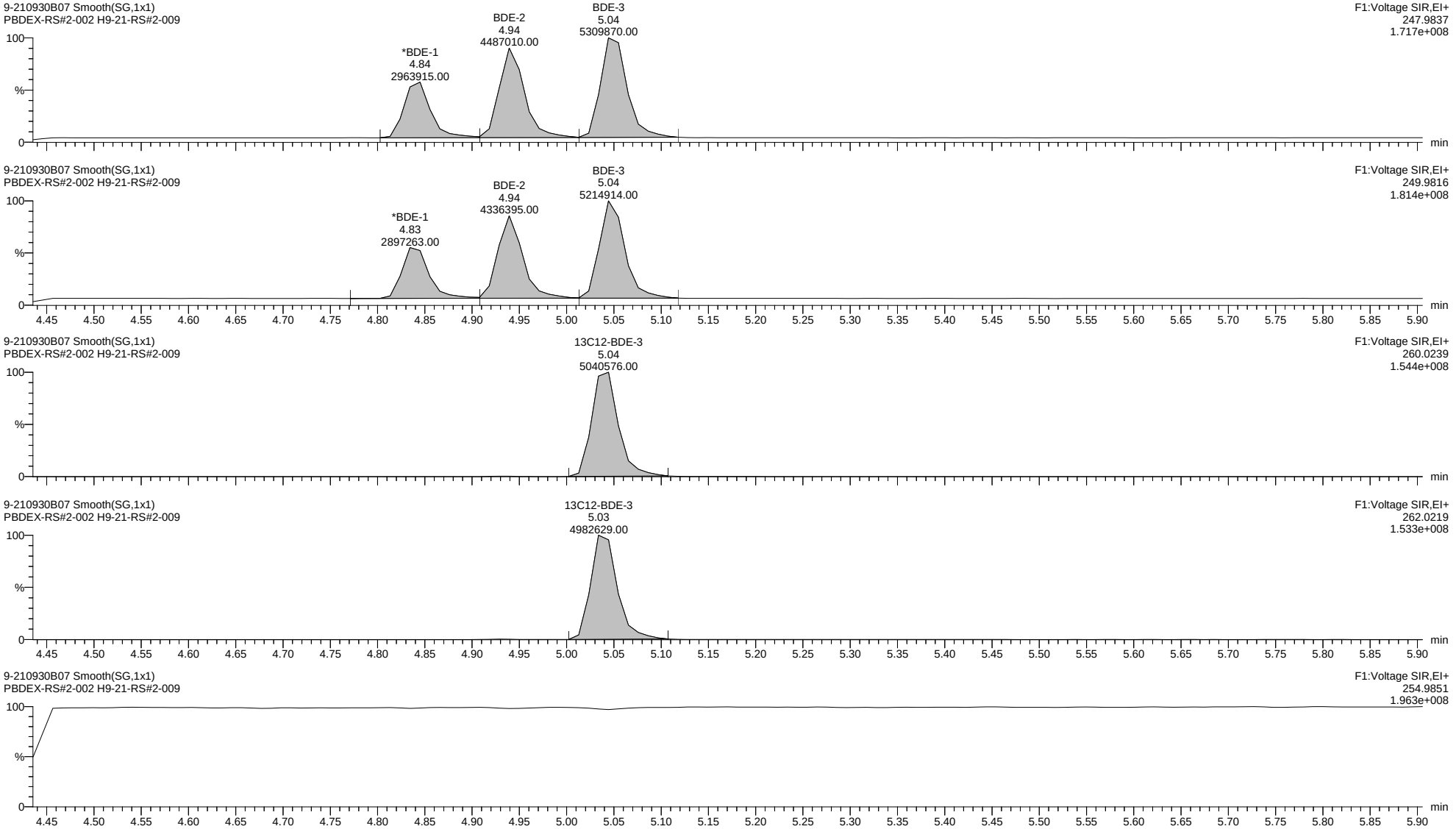
Calibration: C:\MassLynx\PBDE.PRO\CurveDB\9-210930B-PBDEX-ICAL.cdb 01 Oct 2021 10:05:52

Name: 9-210930B07, Date: 30-Sep-2021, Time: 19:57:07, ID: H9-21-RS#2-009, Description: PBDEX-RS#2-002, Vial: Tray1:46



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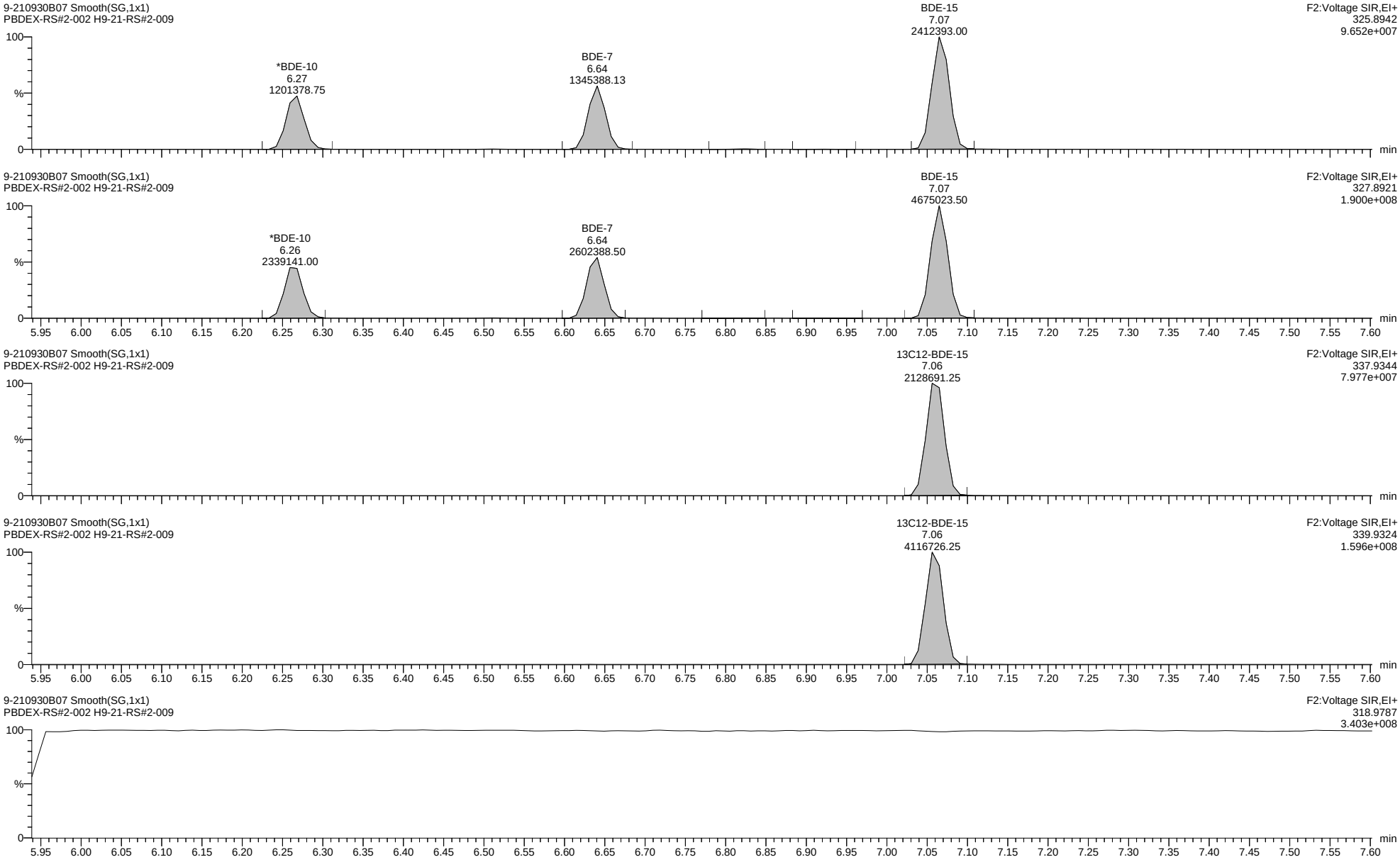

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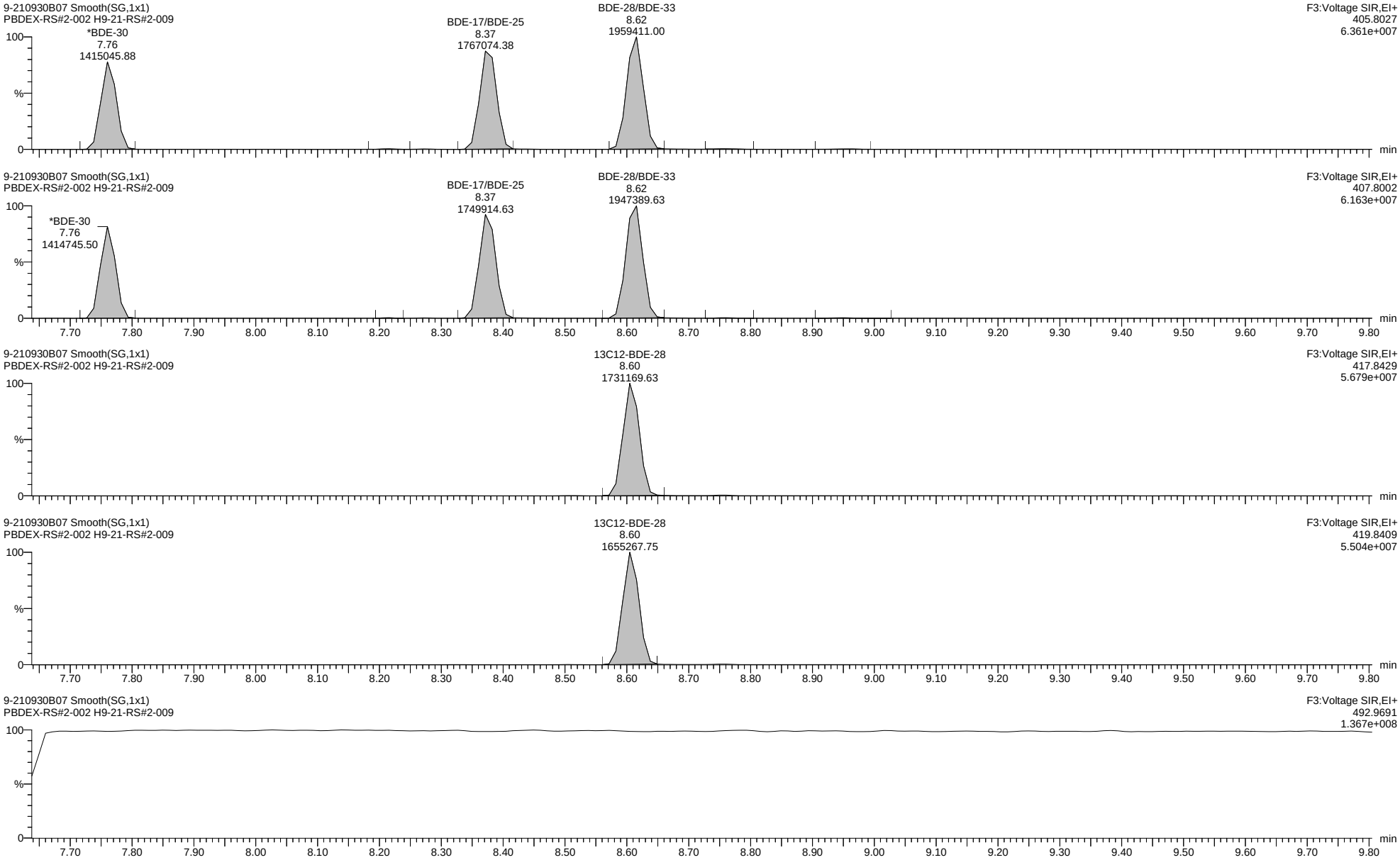

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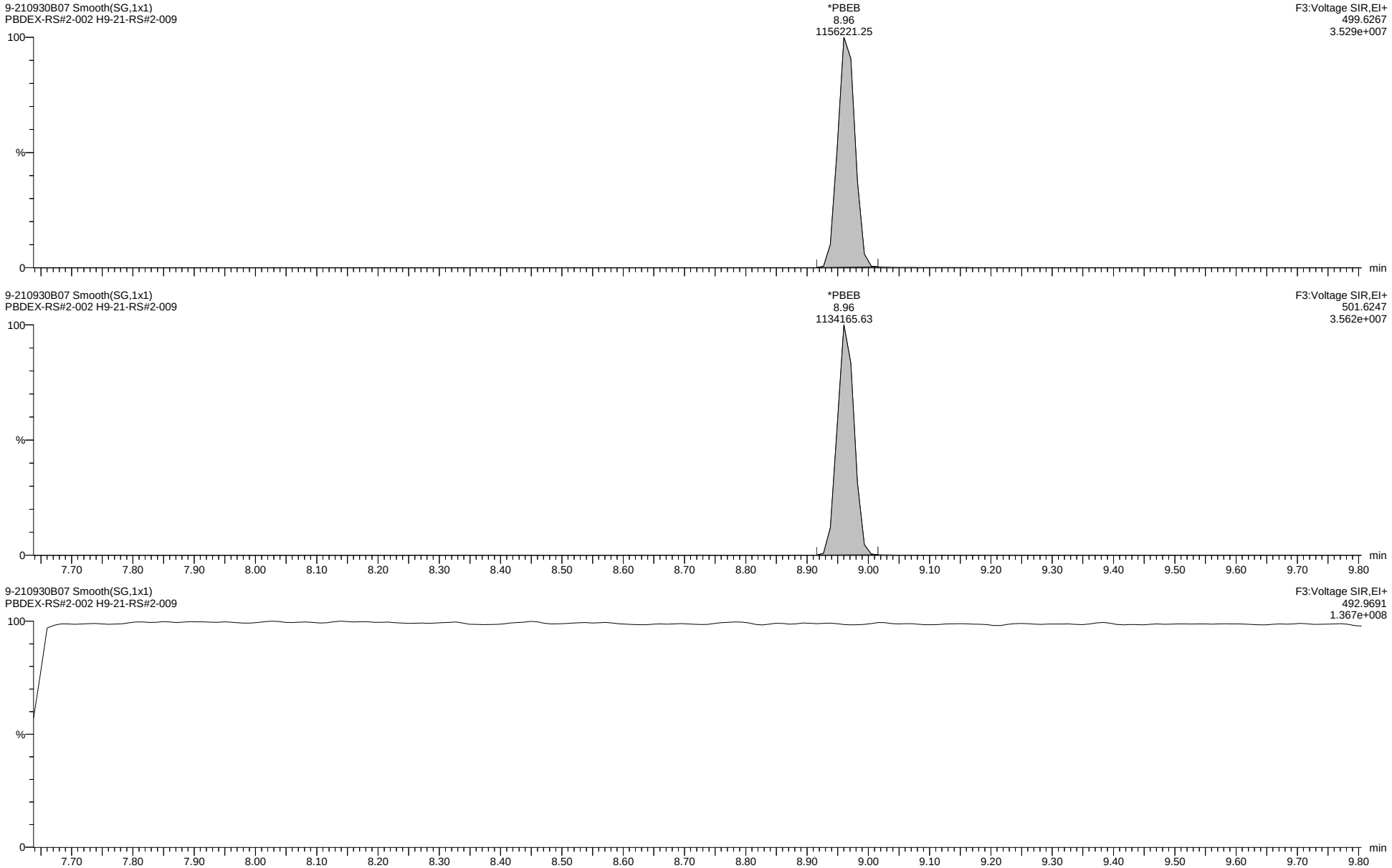

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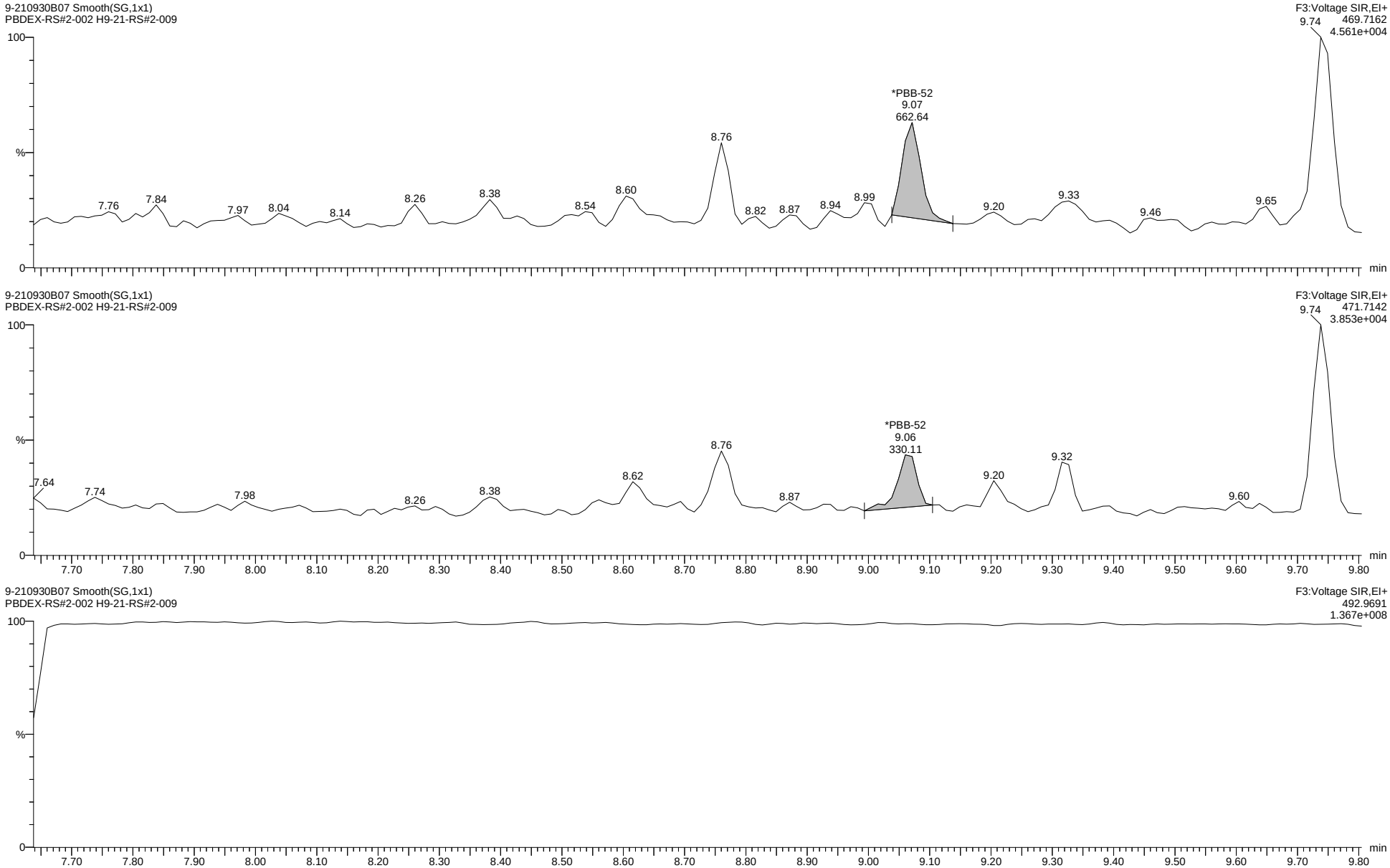

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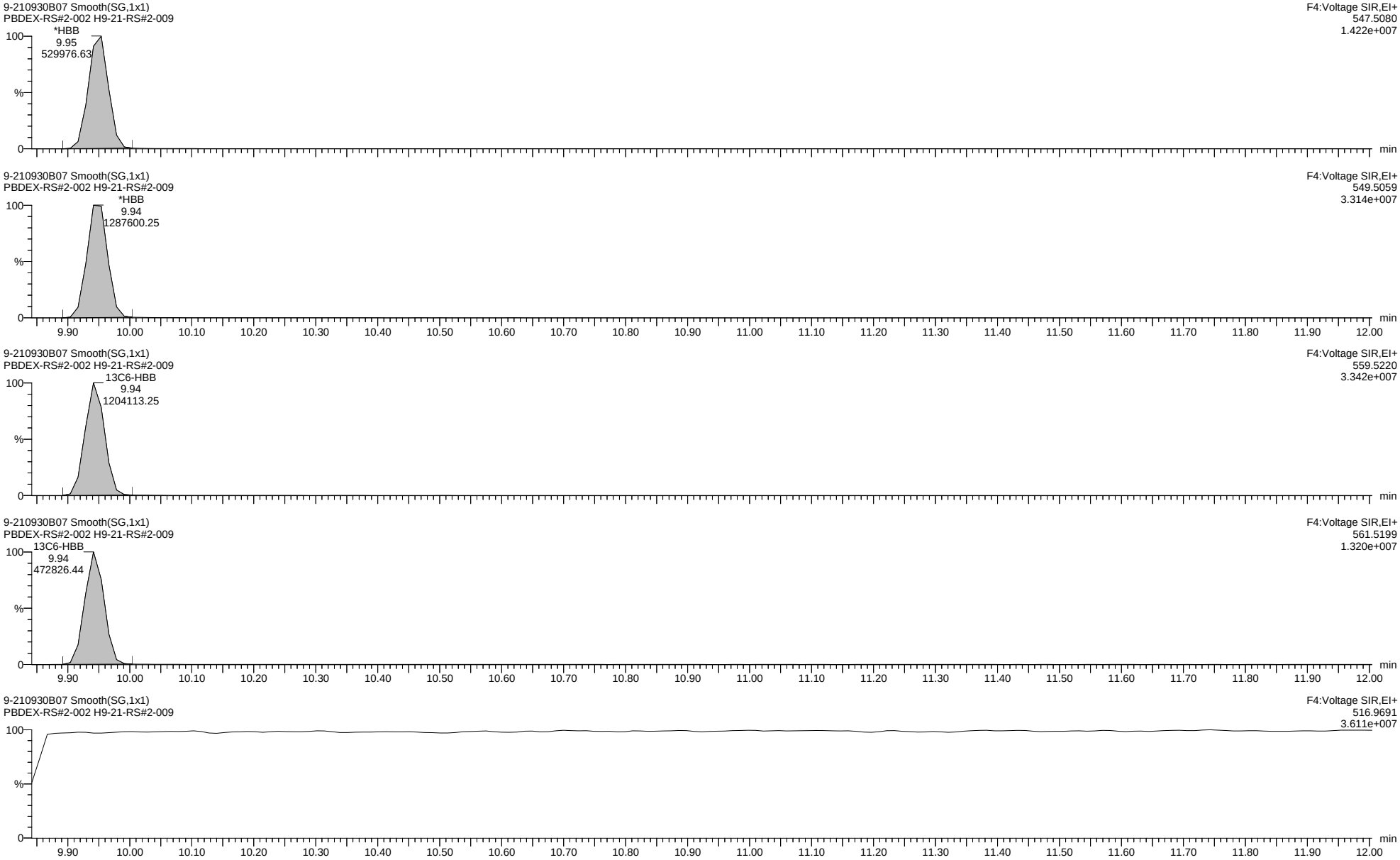

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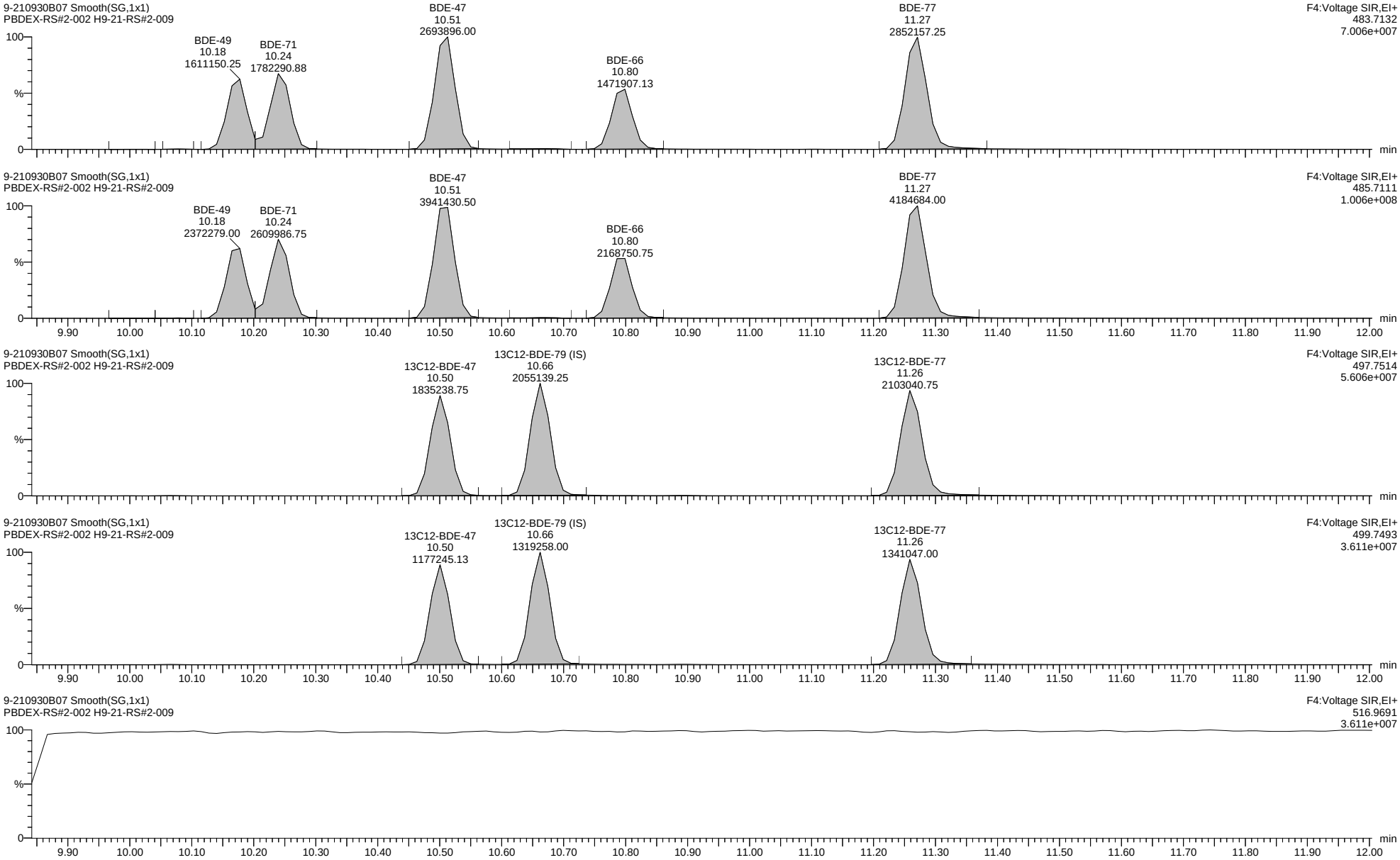

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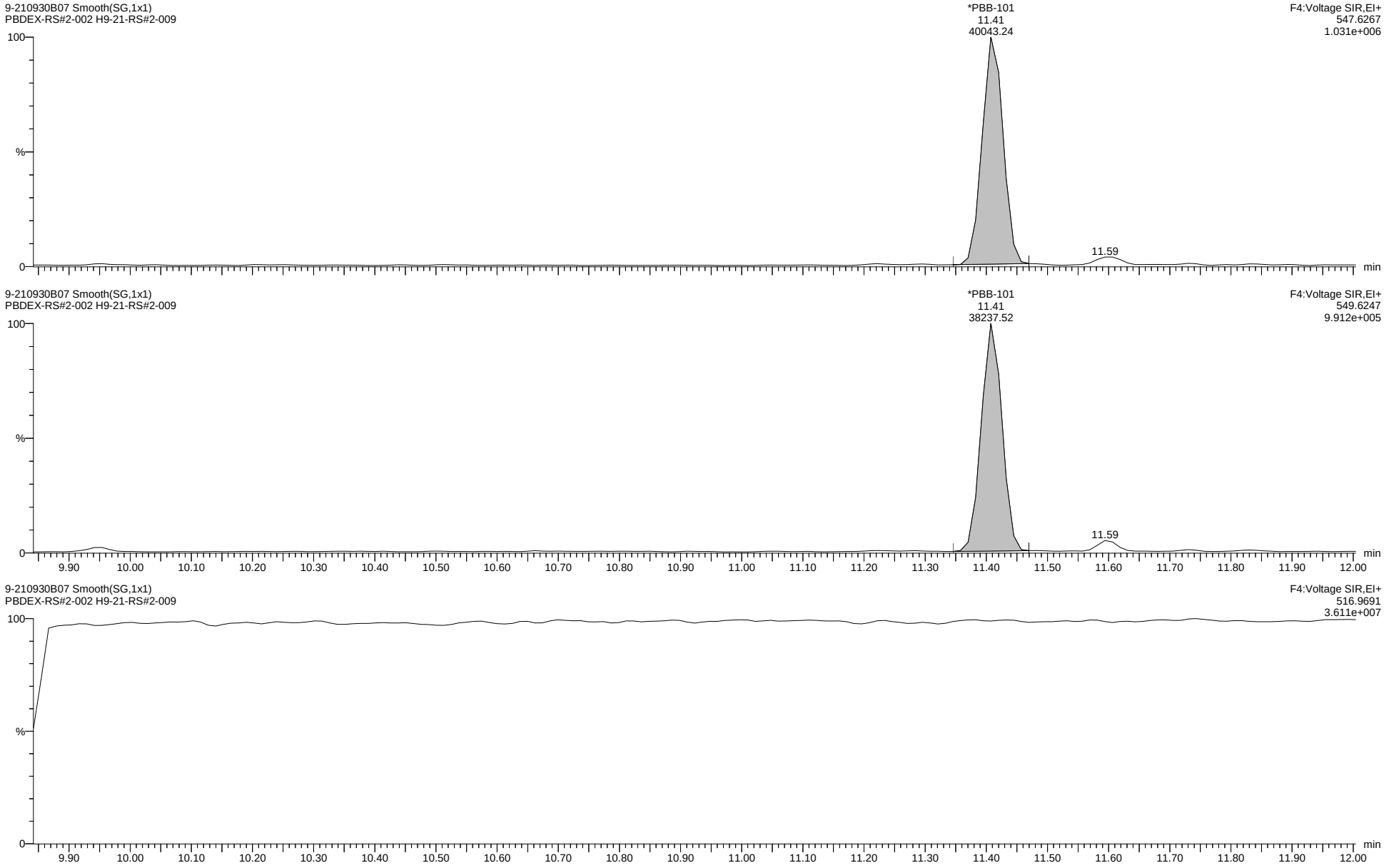

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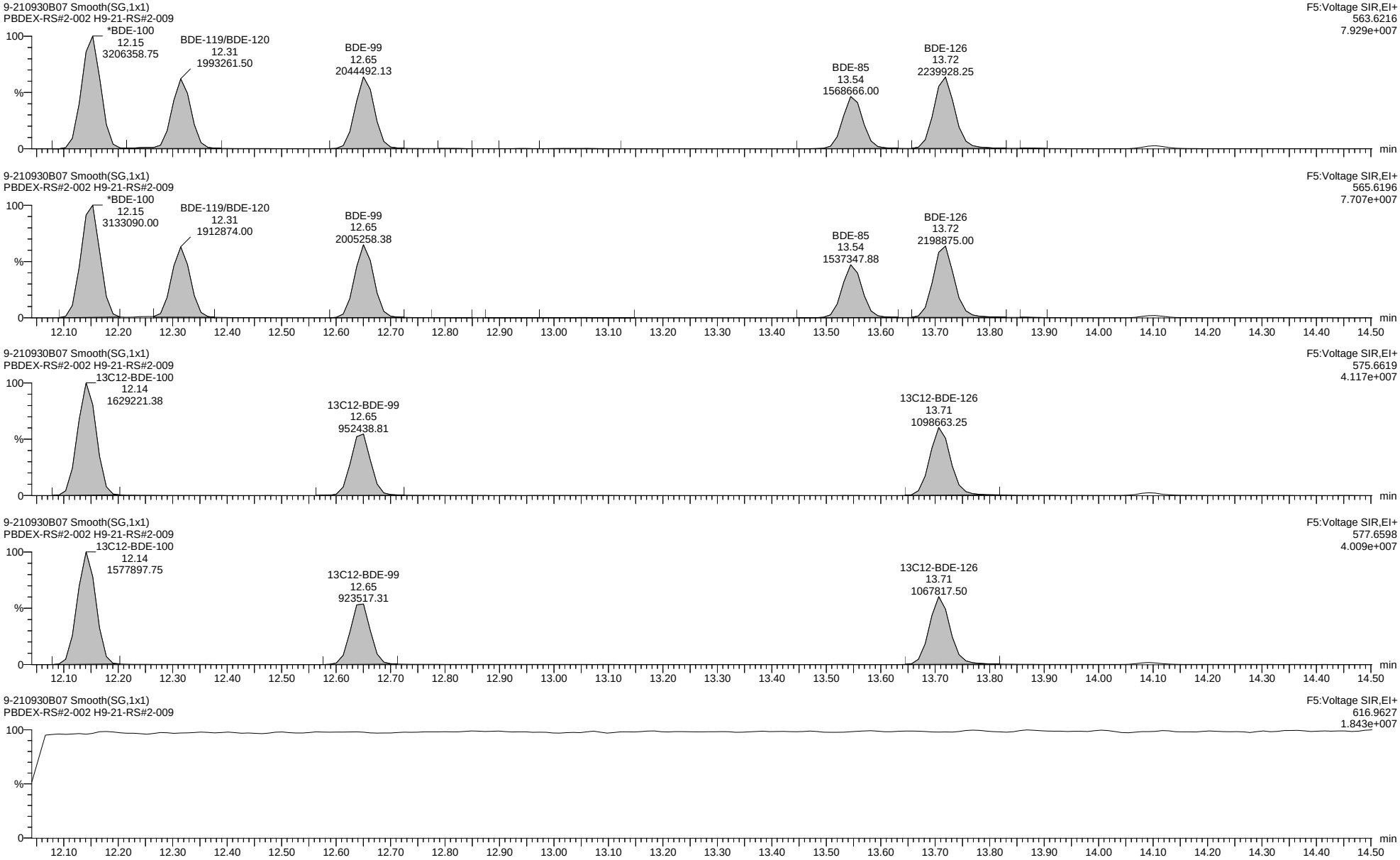

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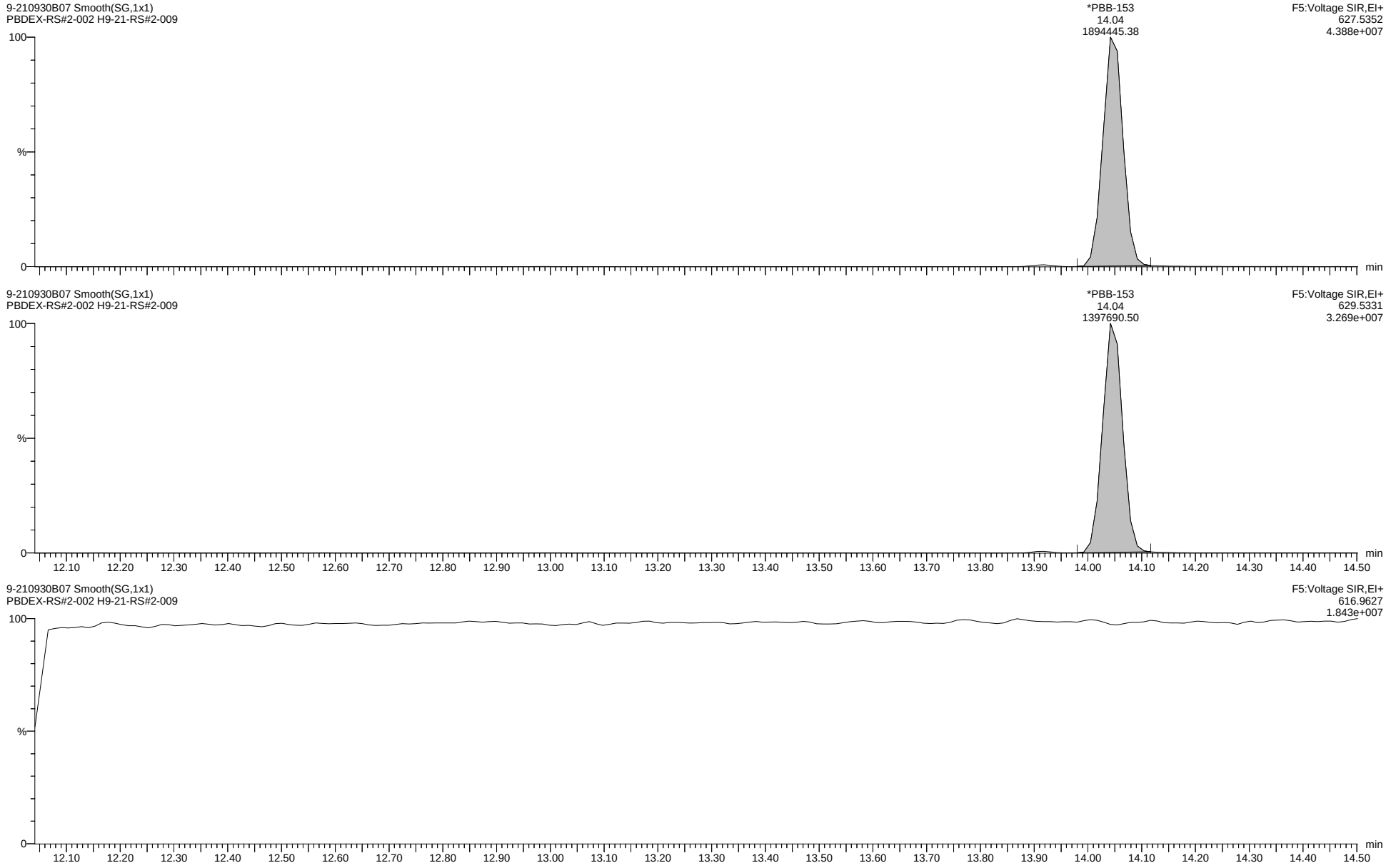

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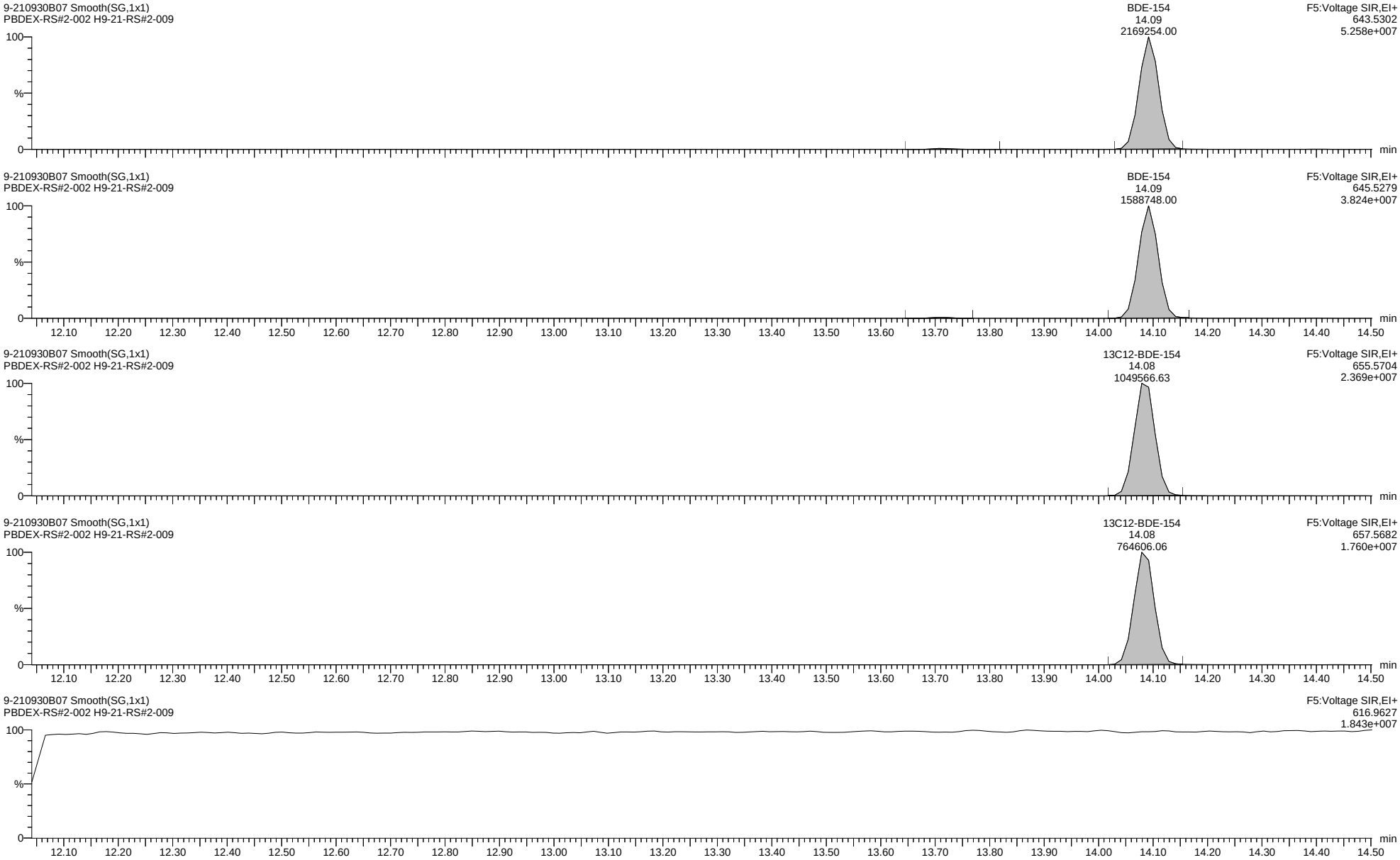

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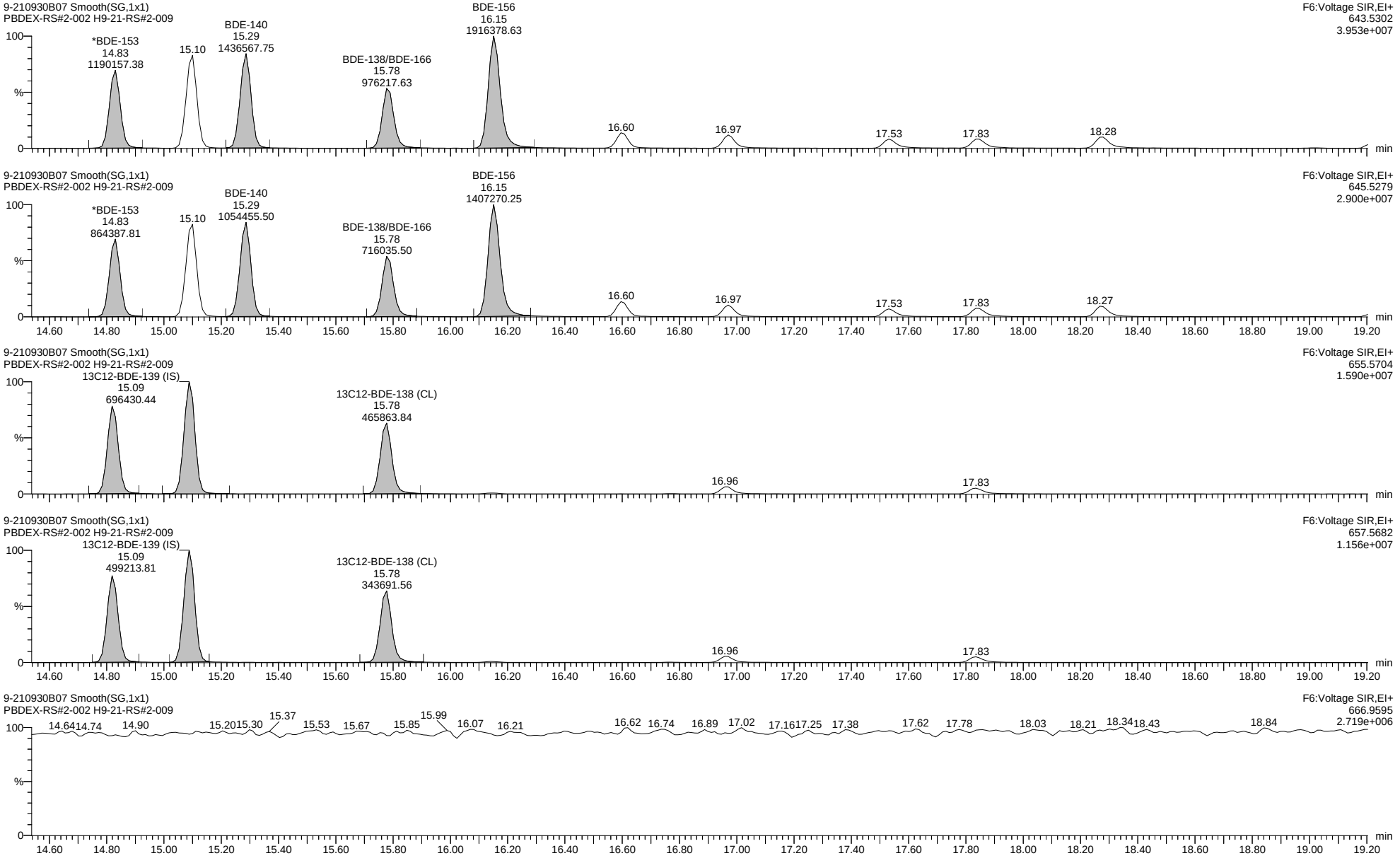

Quantify Sample Template Report **MassLynx MassLynx V4.1 SCN 901**

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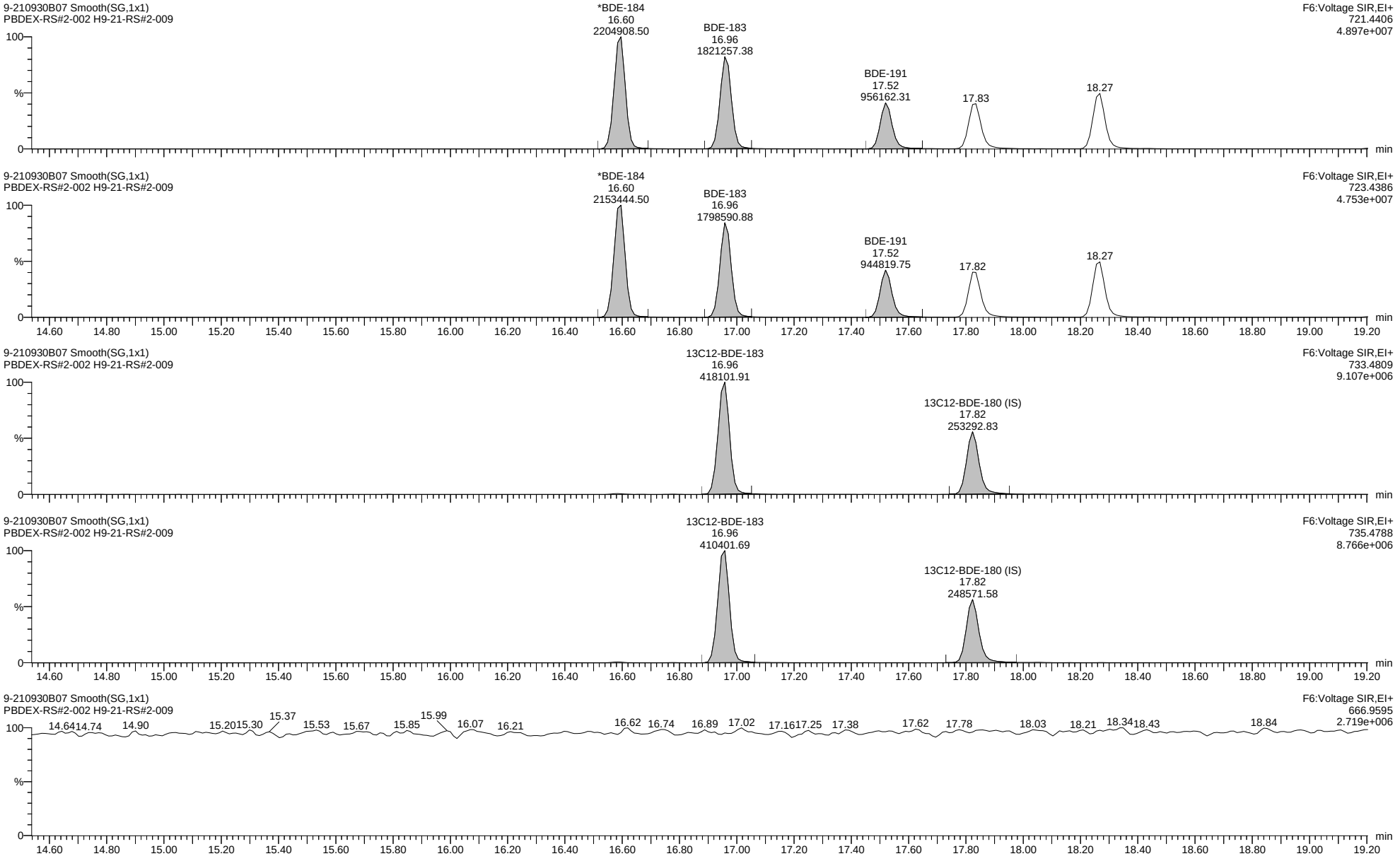

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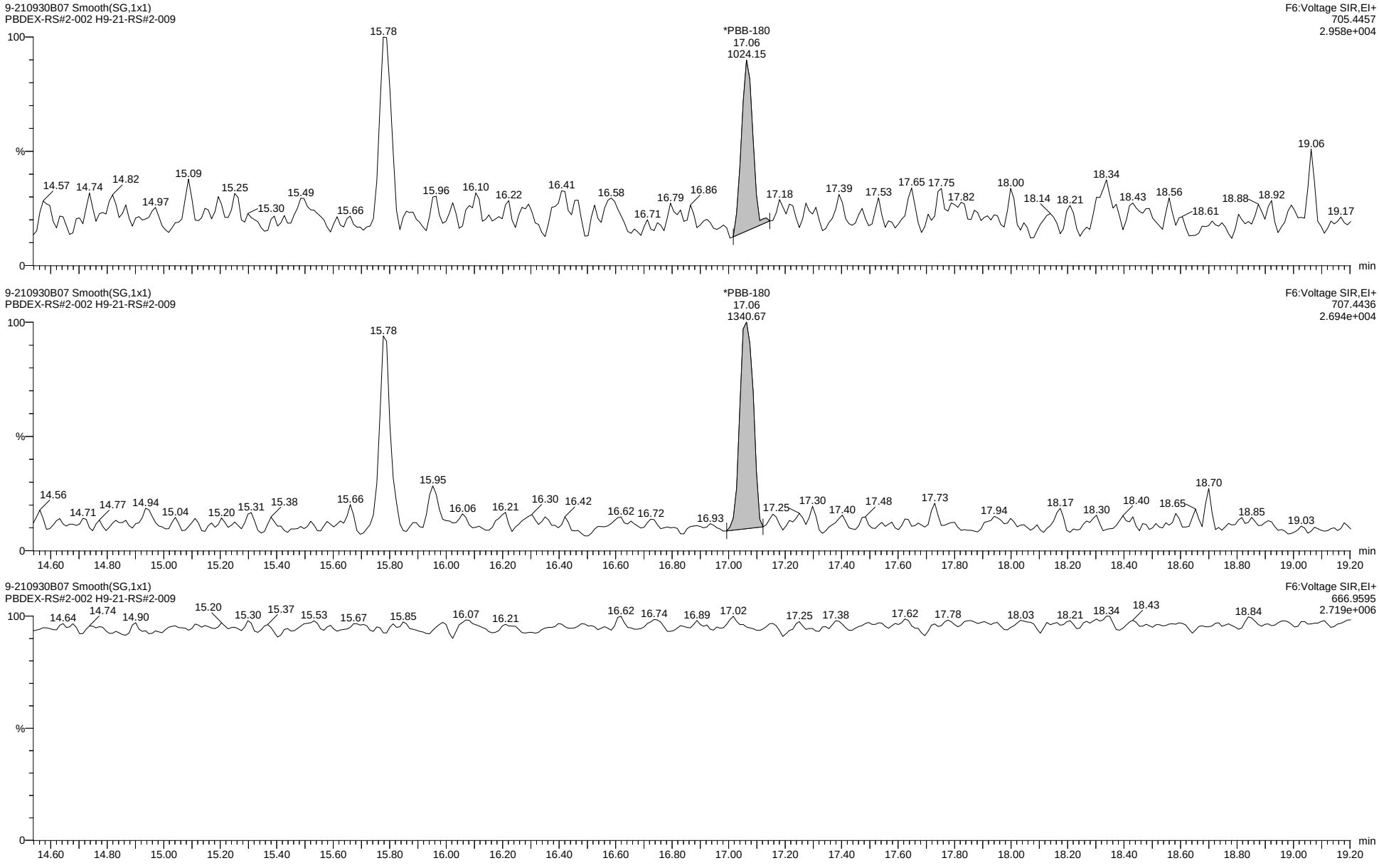

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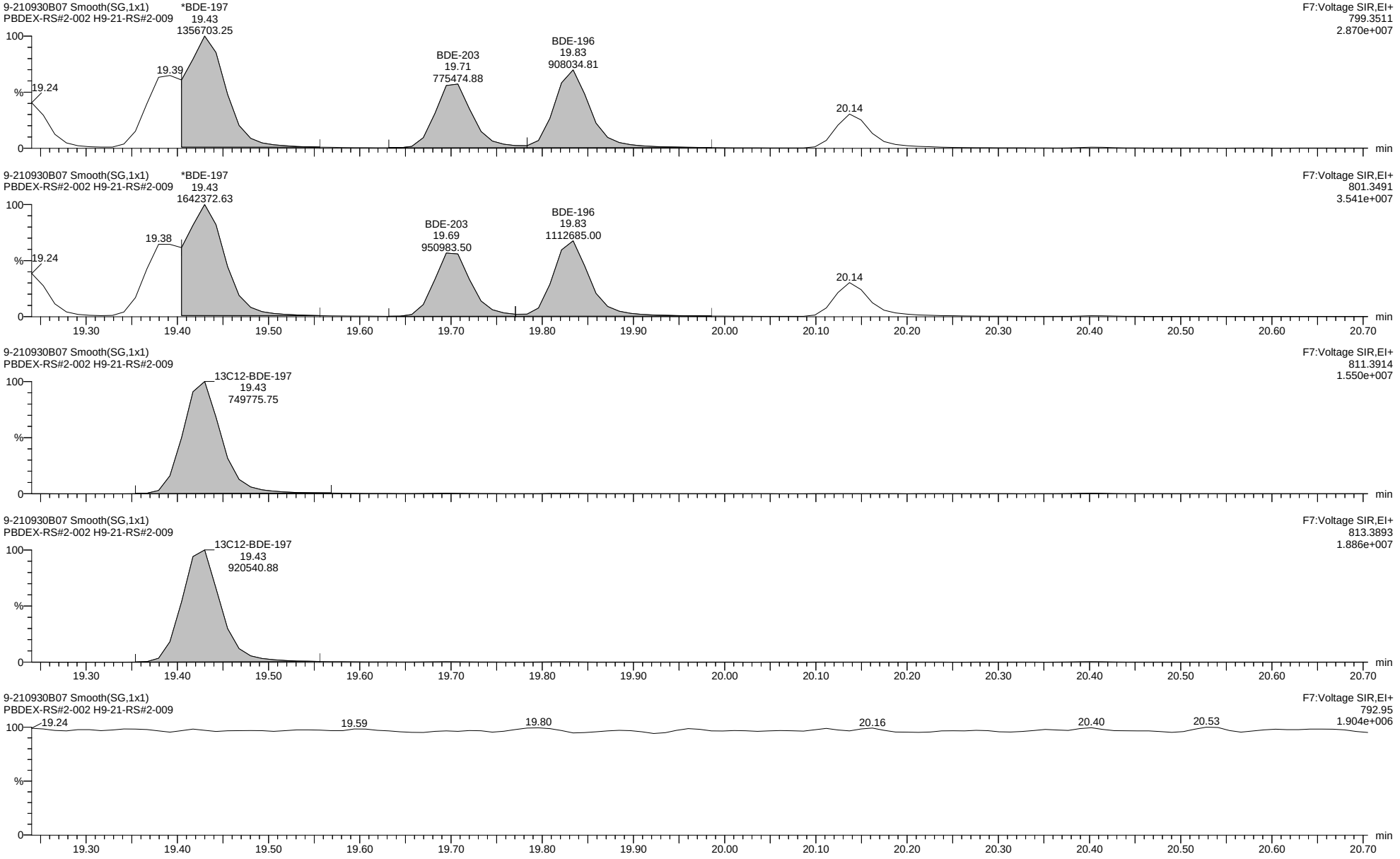

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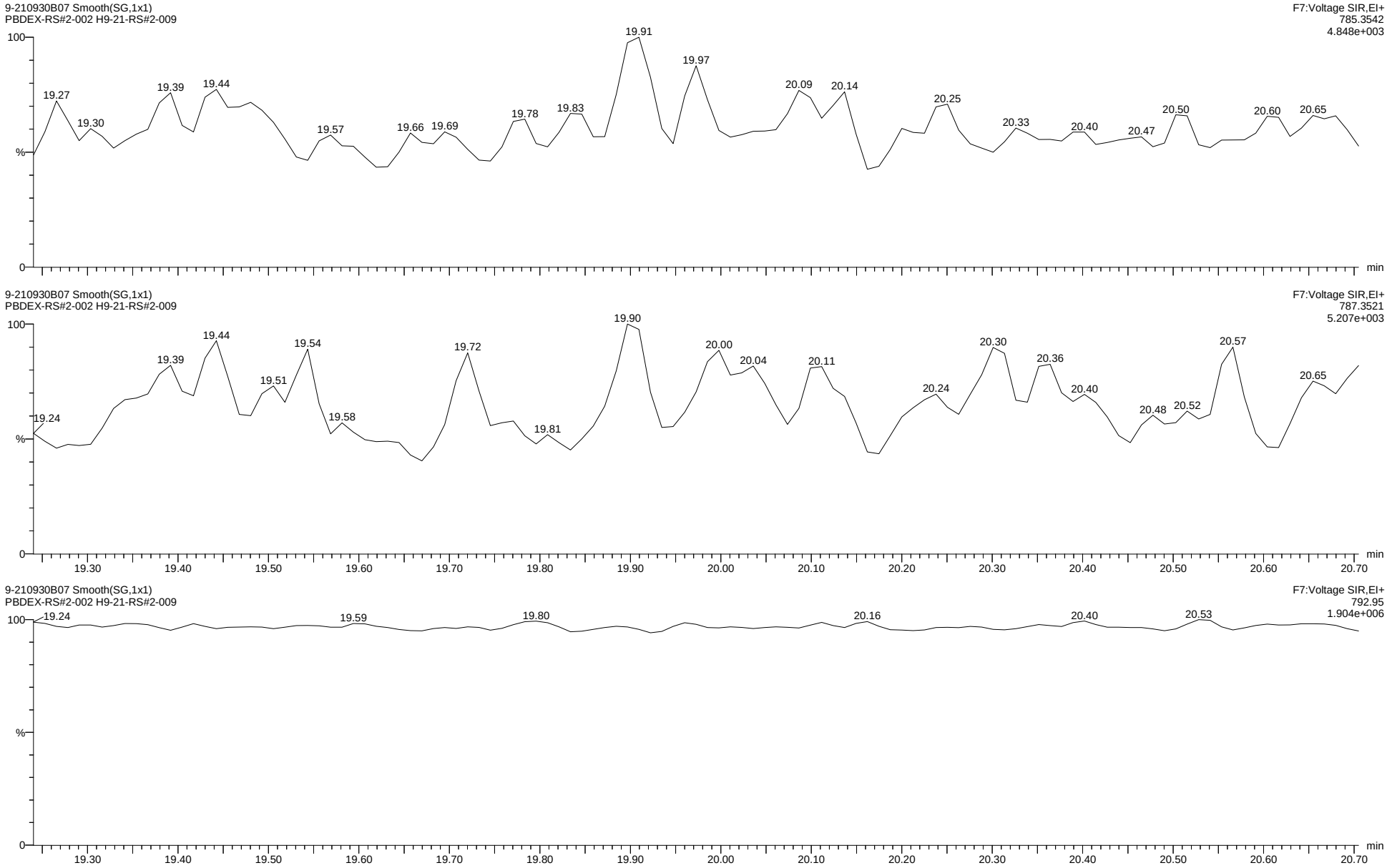

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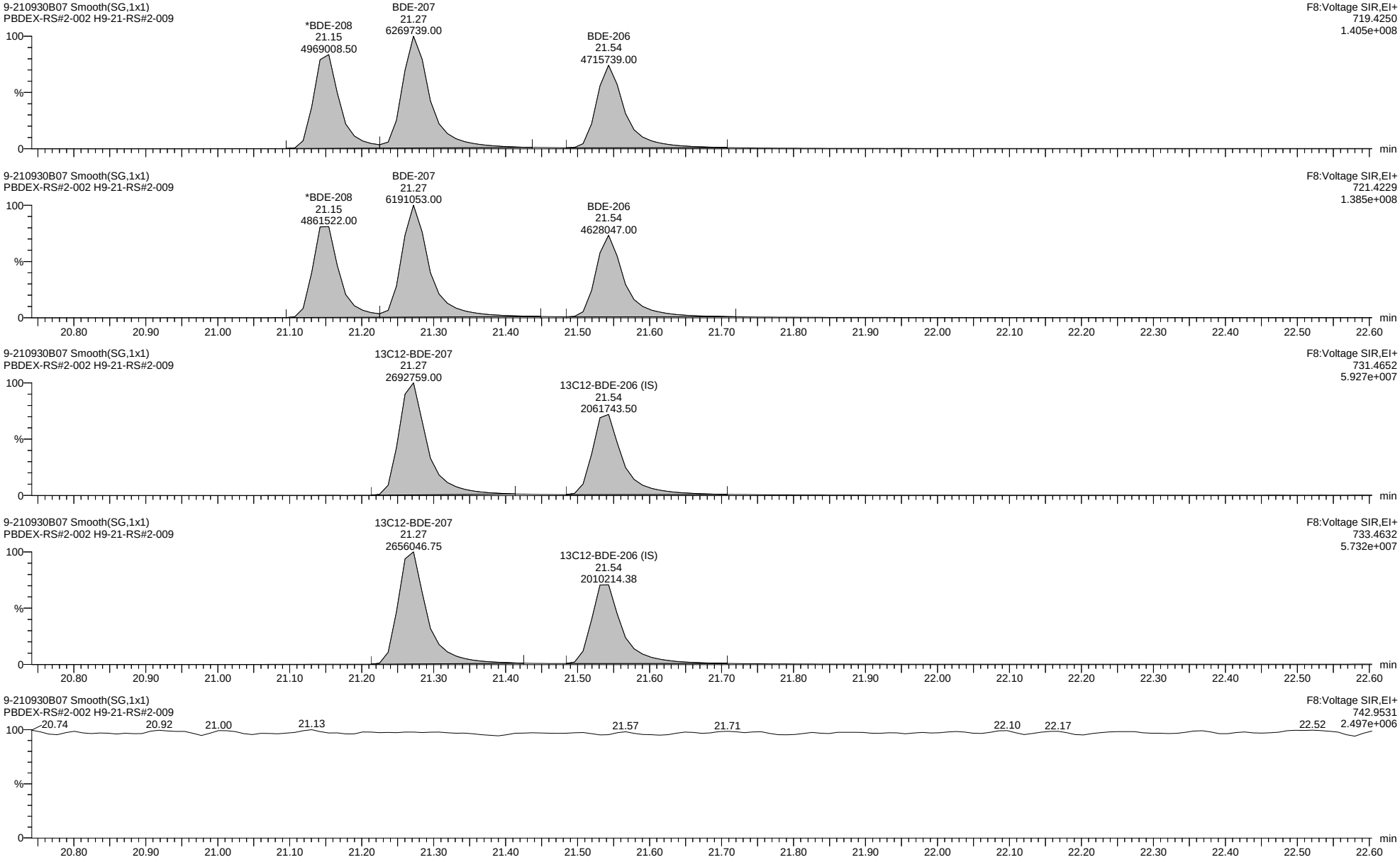

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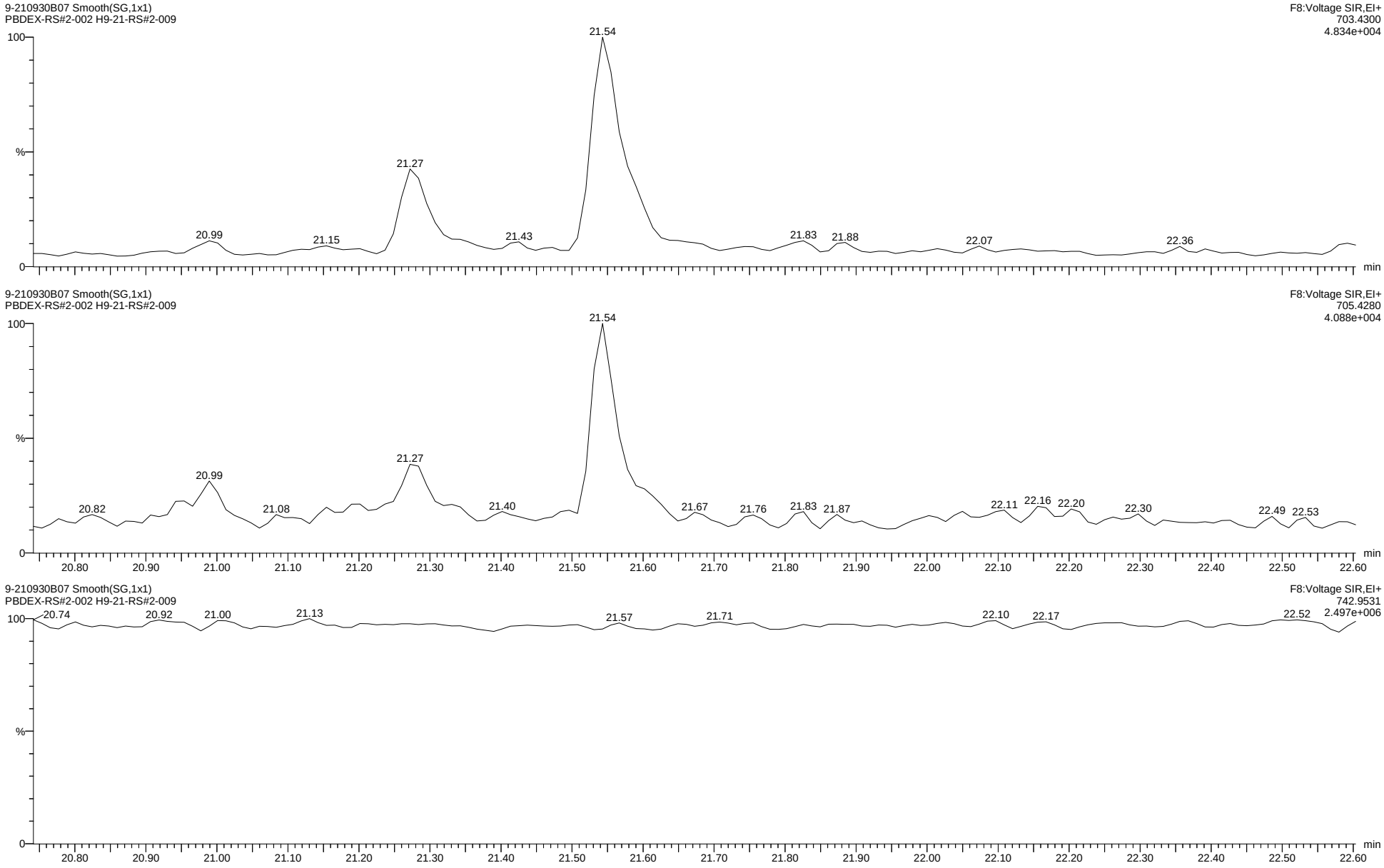

Quantify Sample Template Report **MassLynx MassLynx V4.1 SCN 901**

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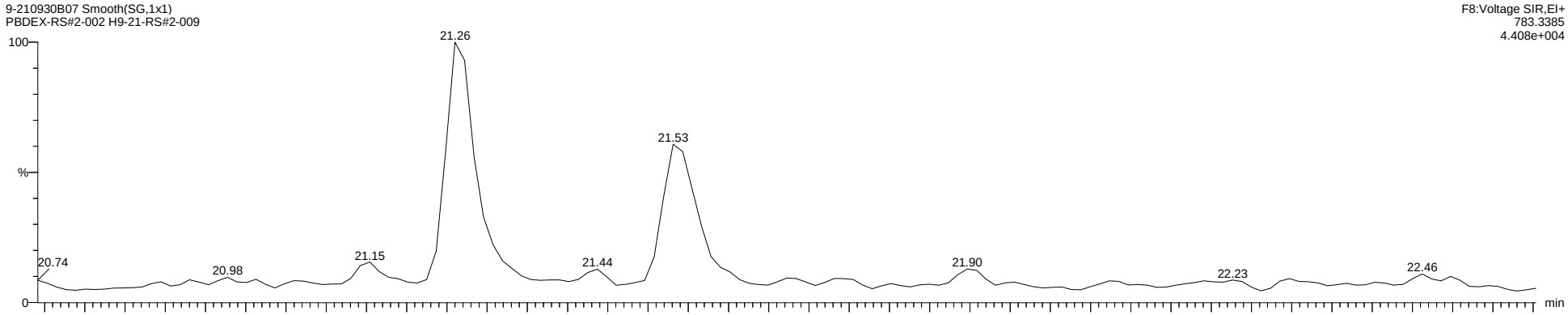

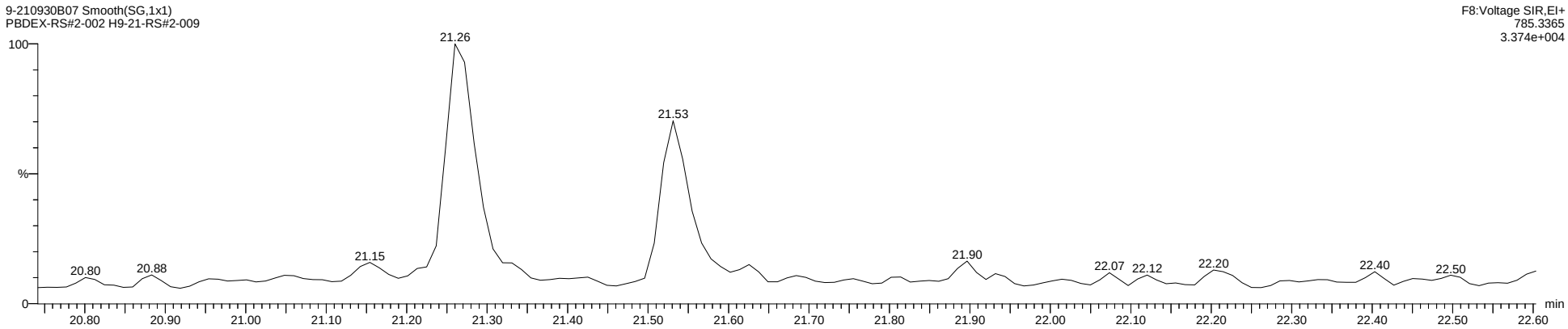

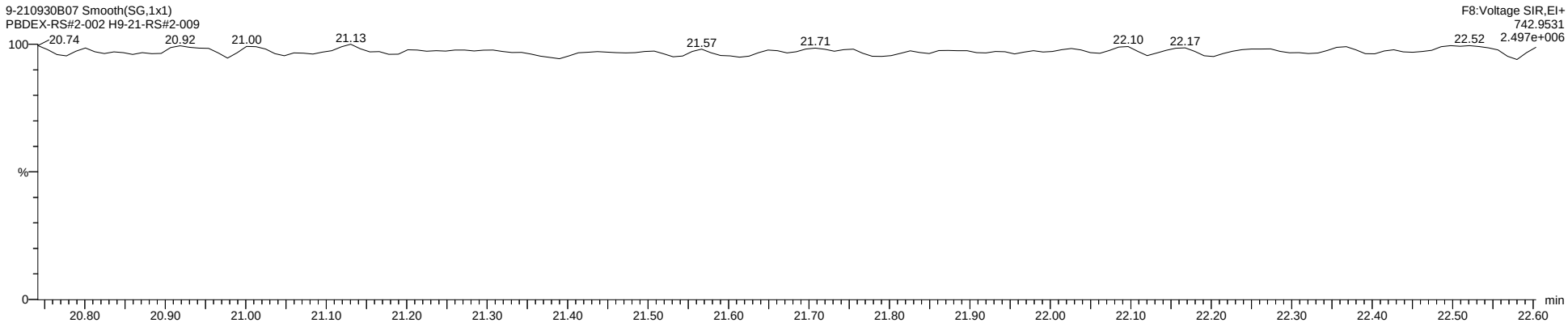

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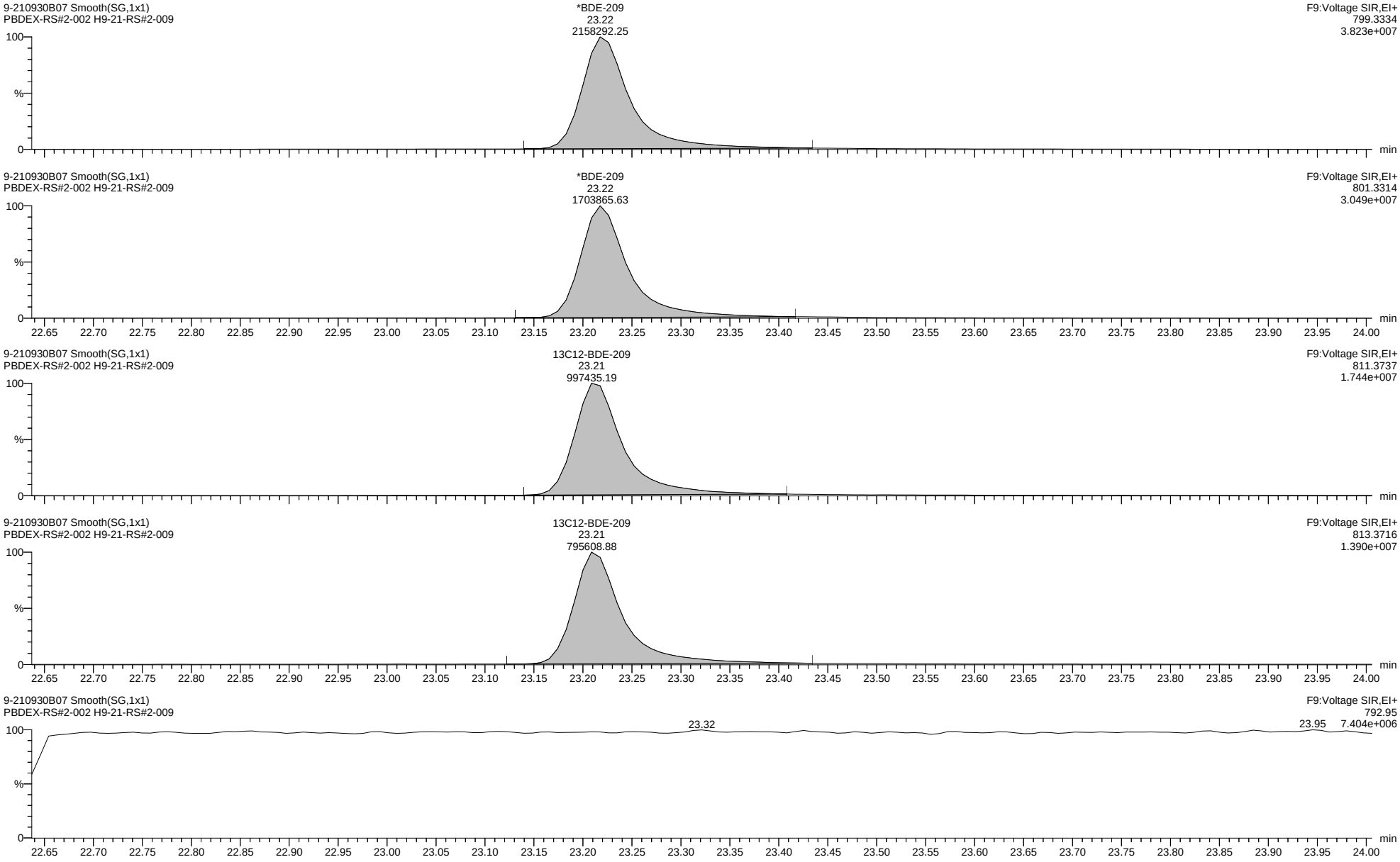

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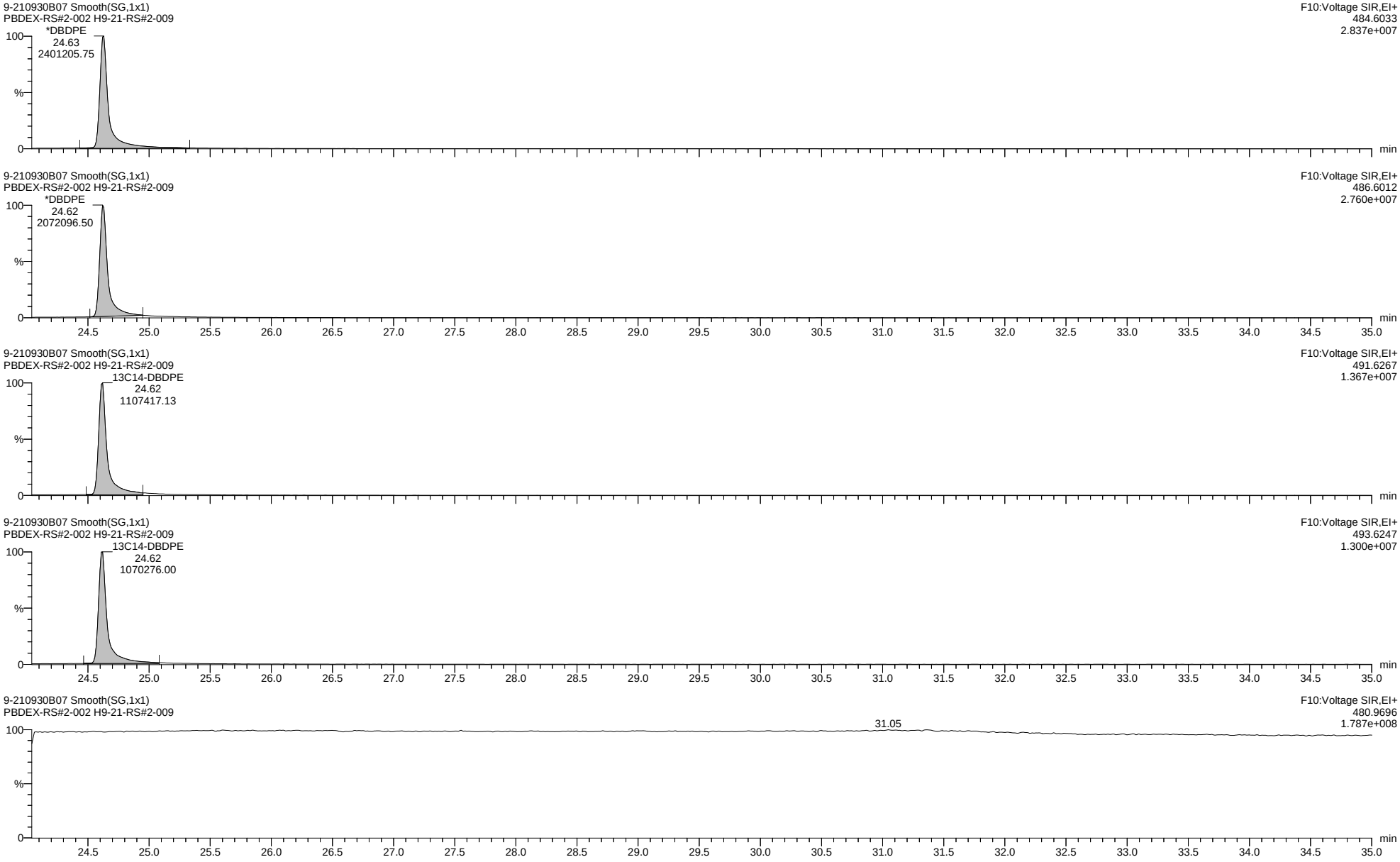

Quantify Sample Template Report **MassLynx MassLynx V4.1 SCN 901**

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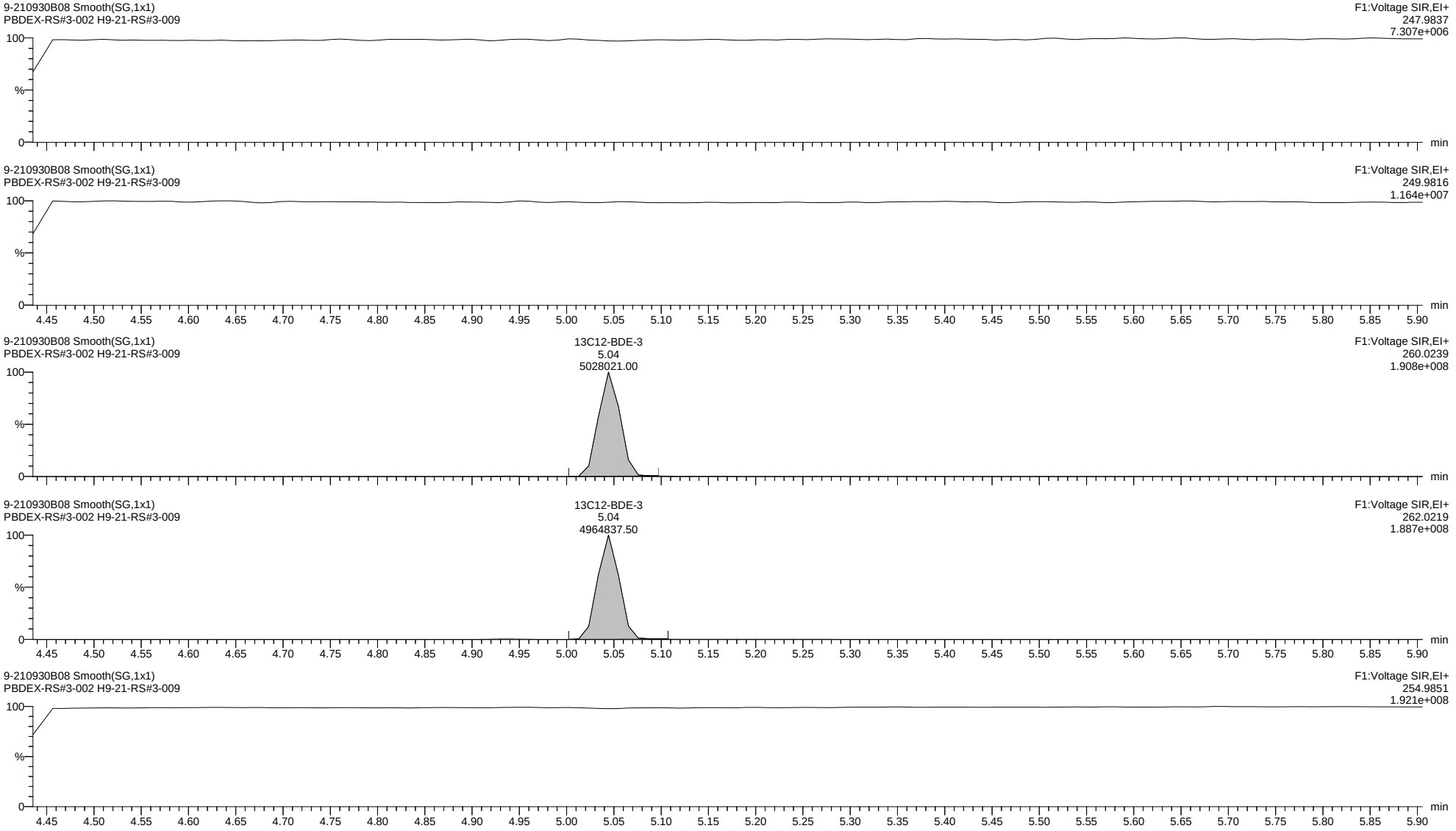

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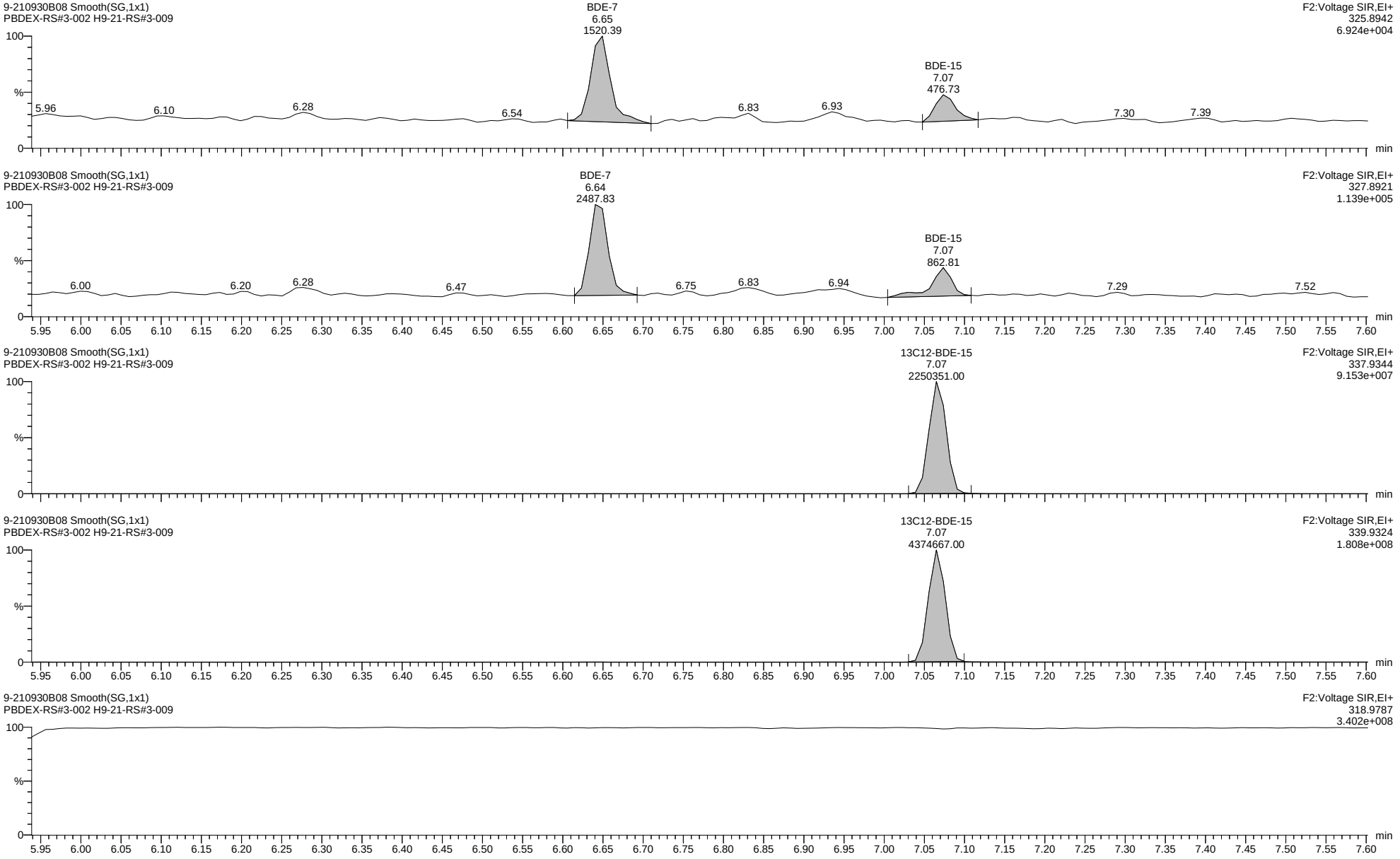

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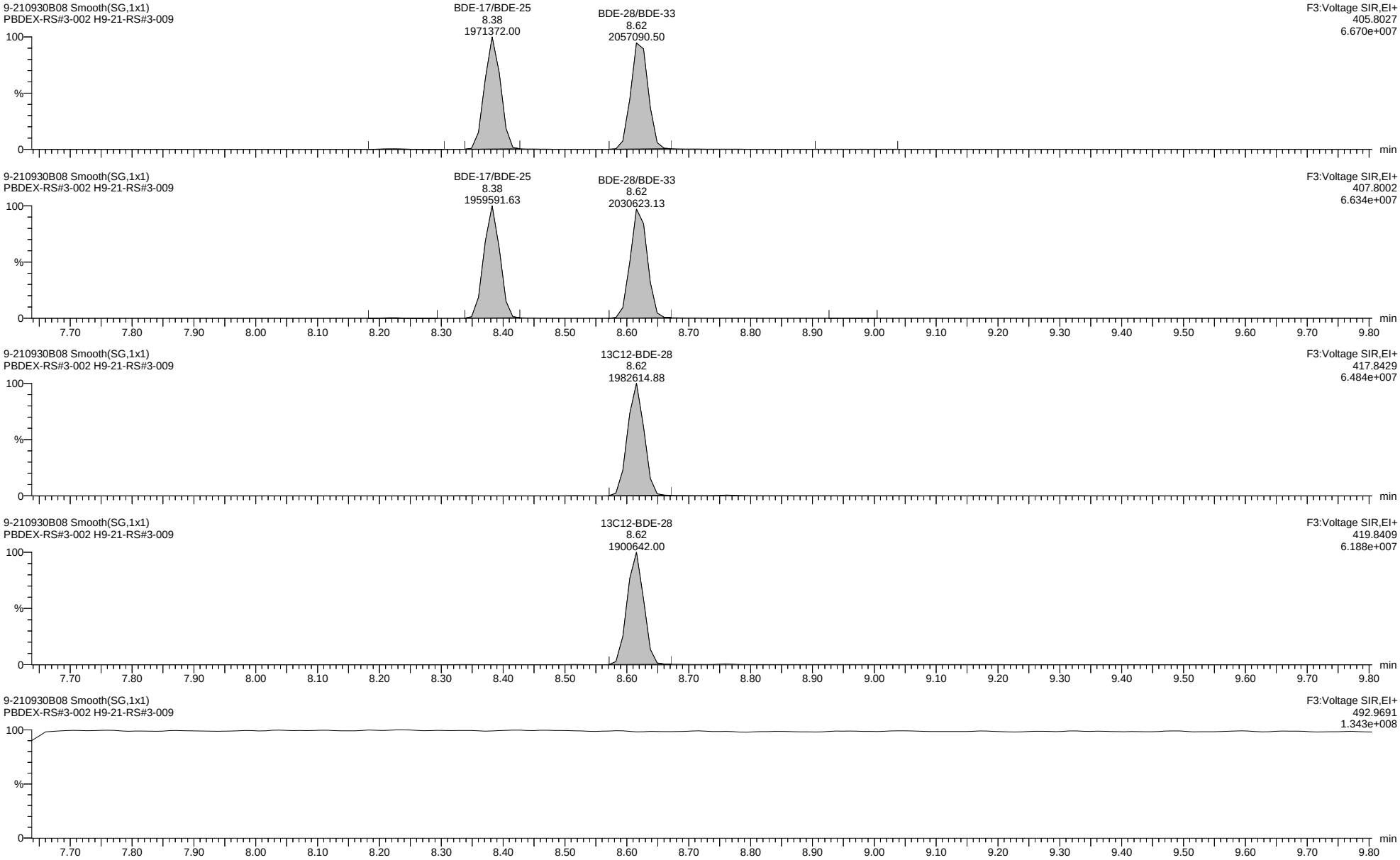

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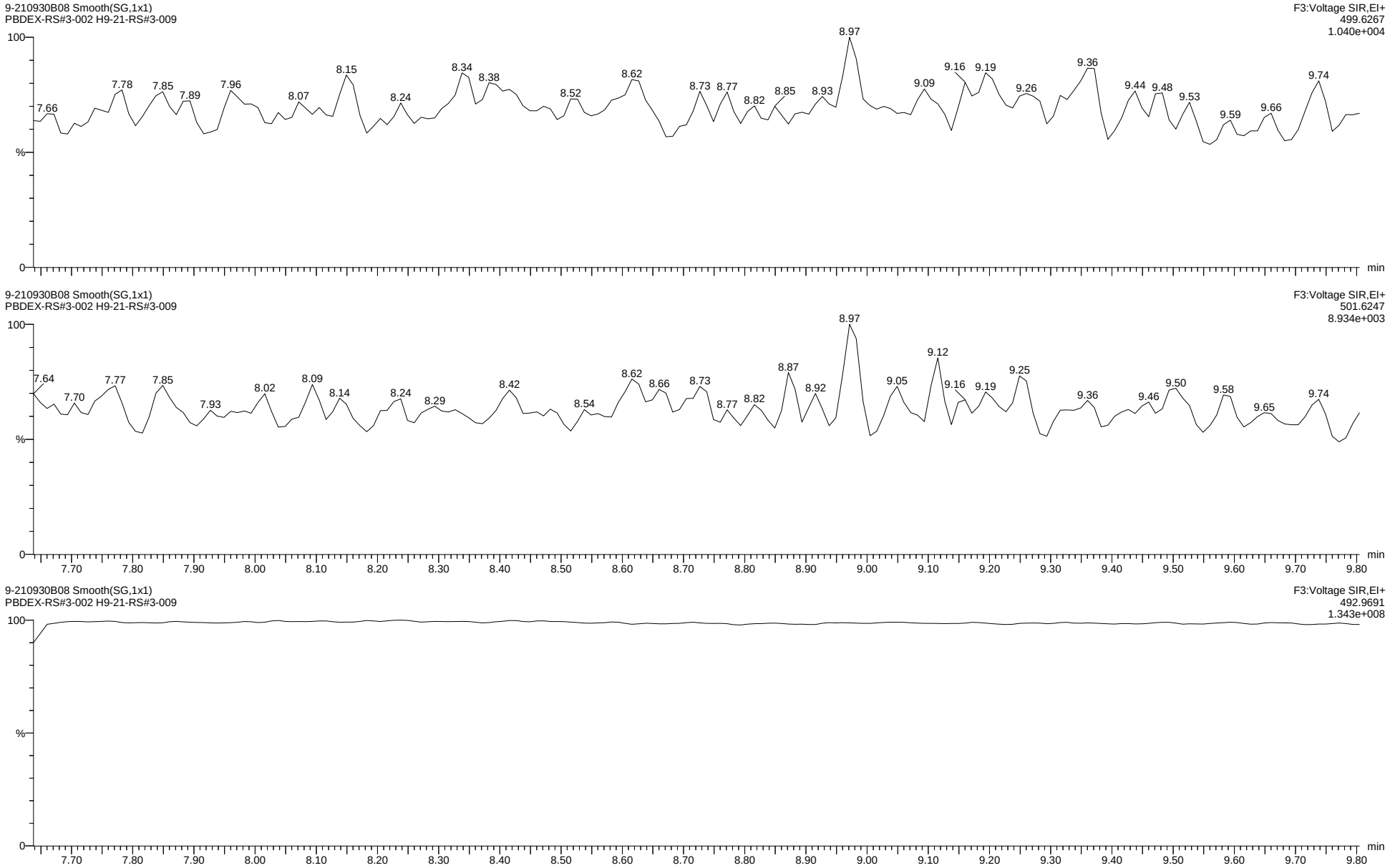

Quantify Sample Template Report **MassLynx MassLynx V4.1 SCN 901**

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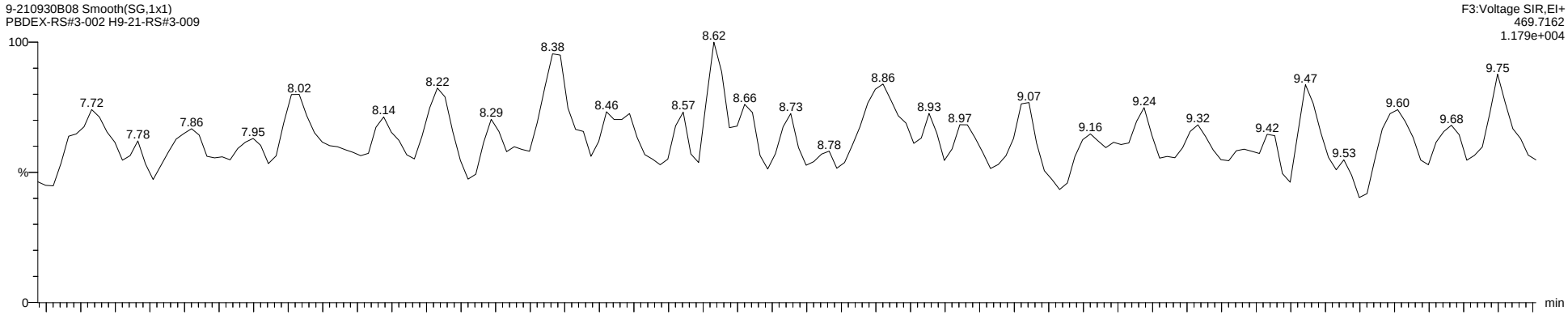

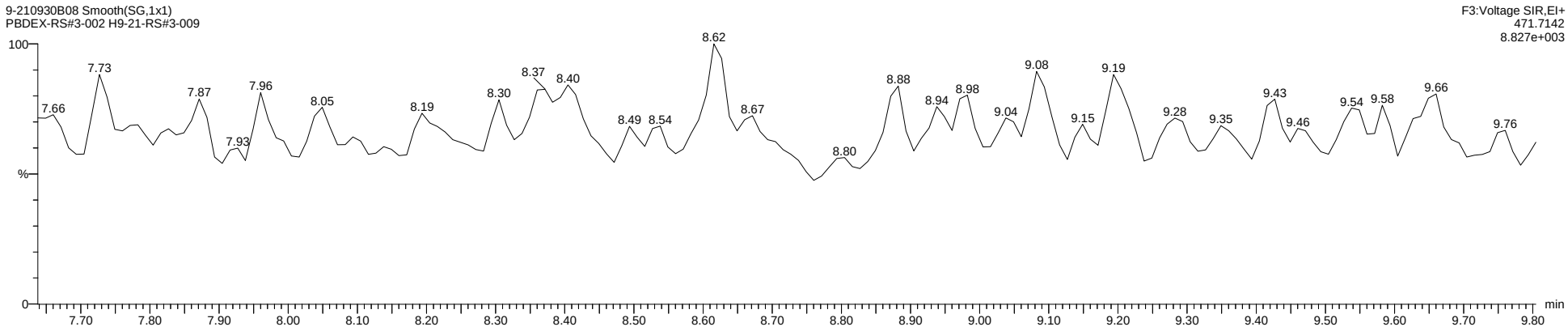

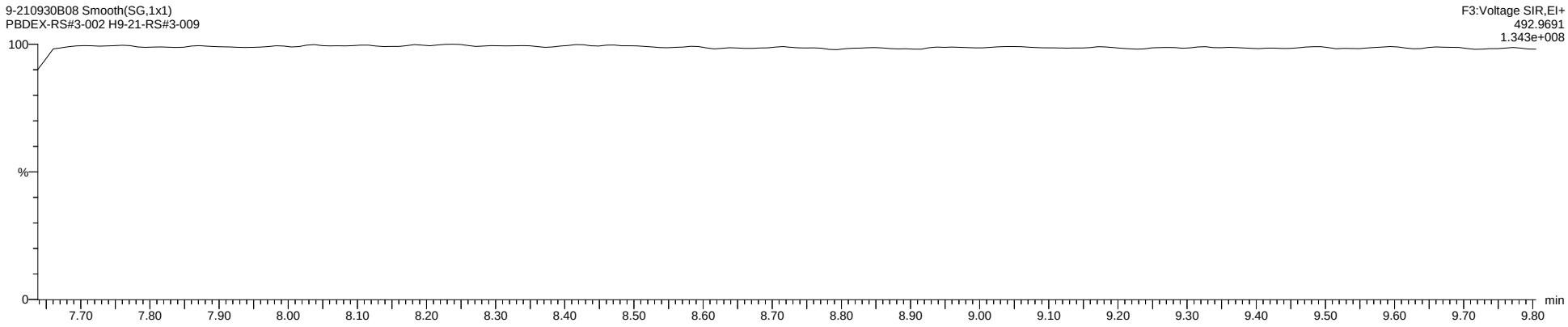

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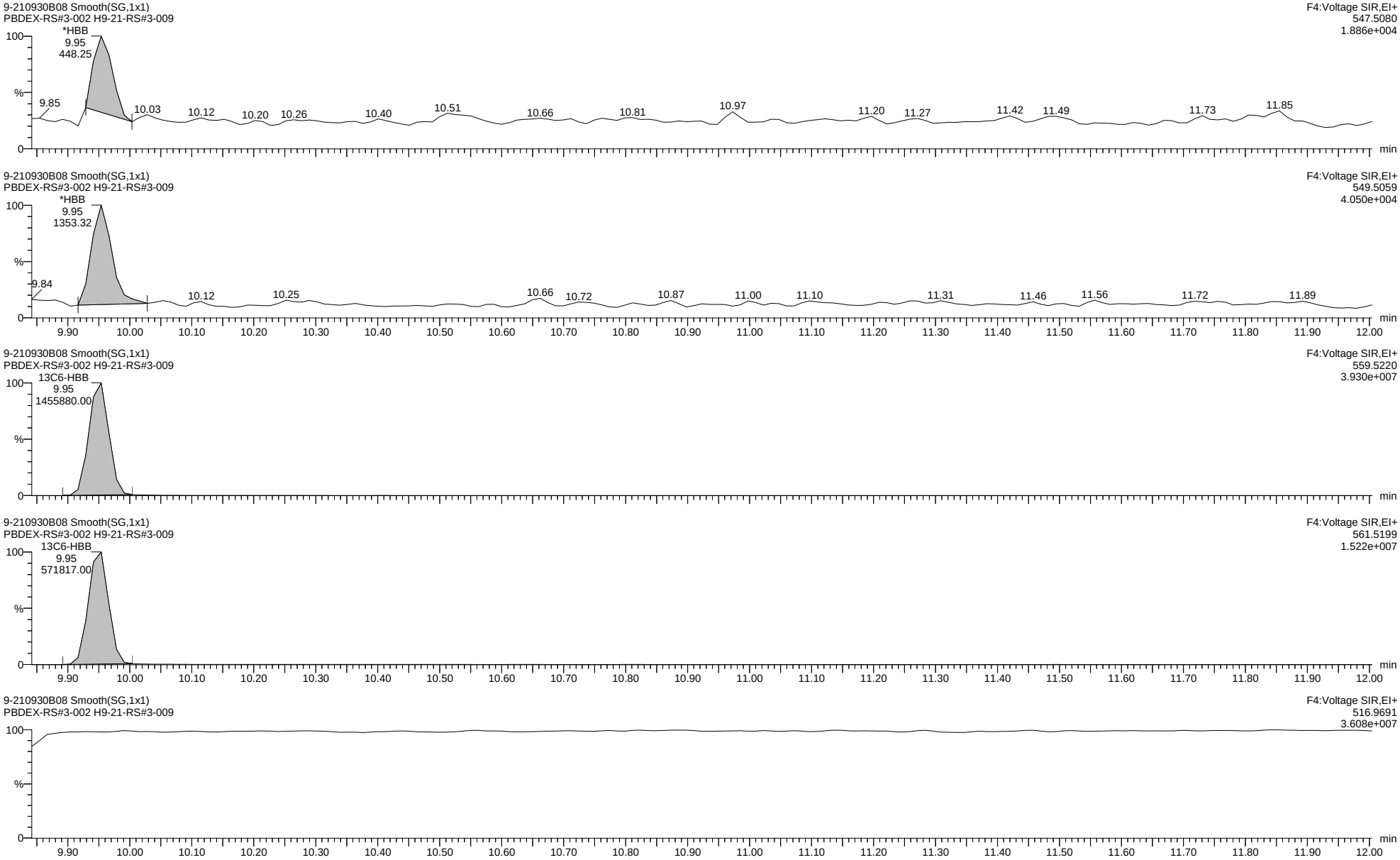

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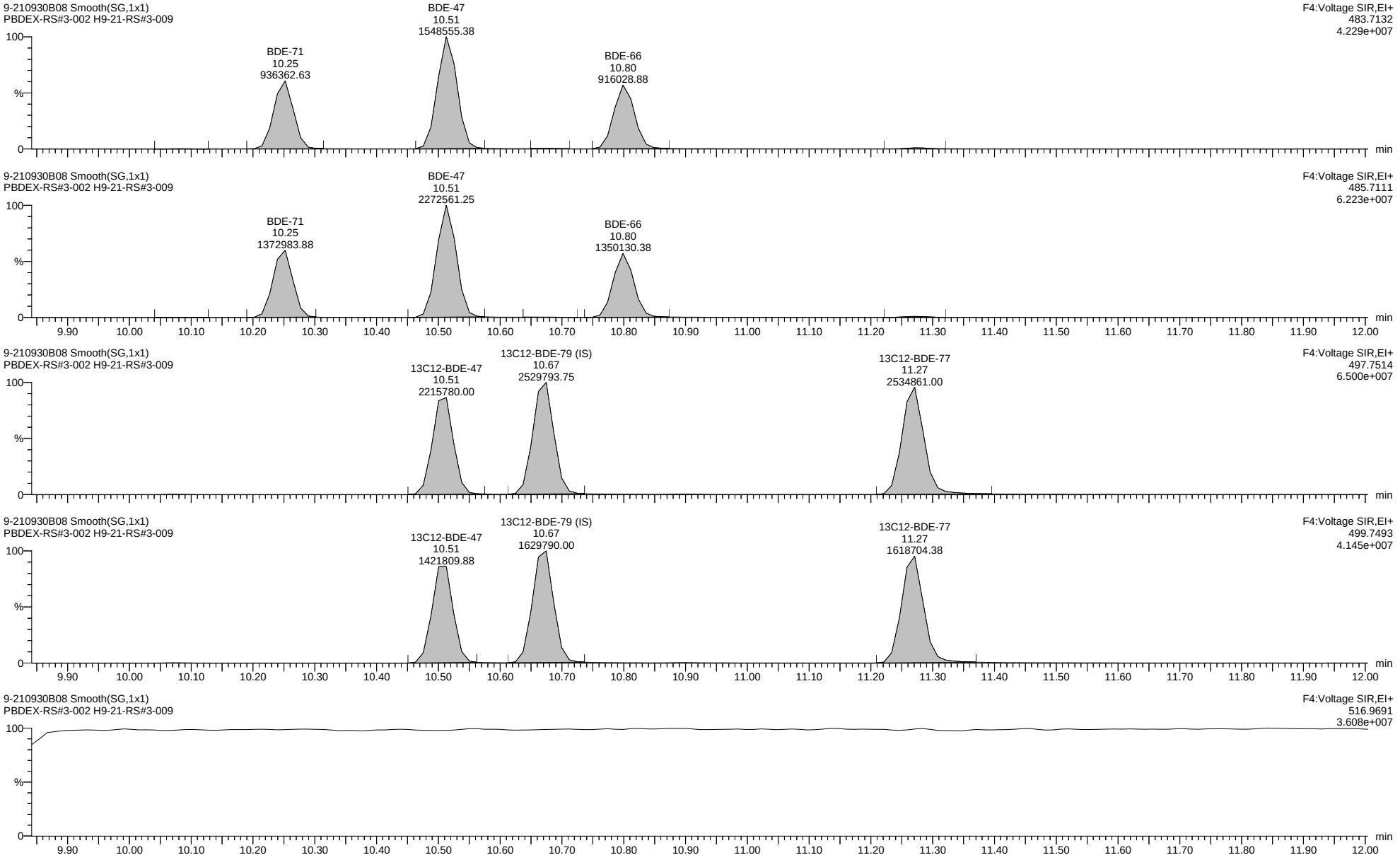

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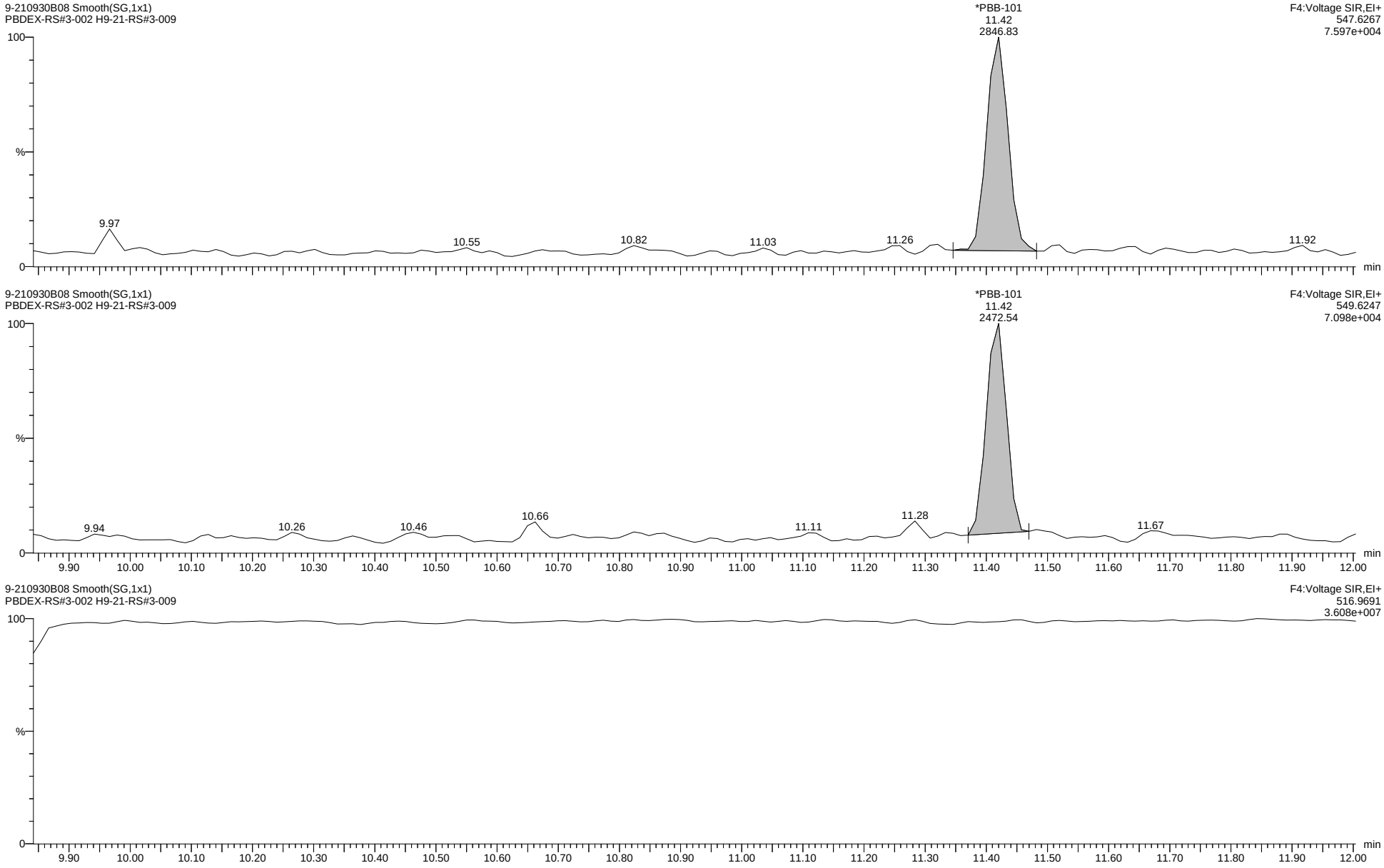

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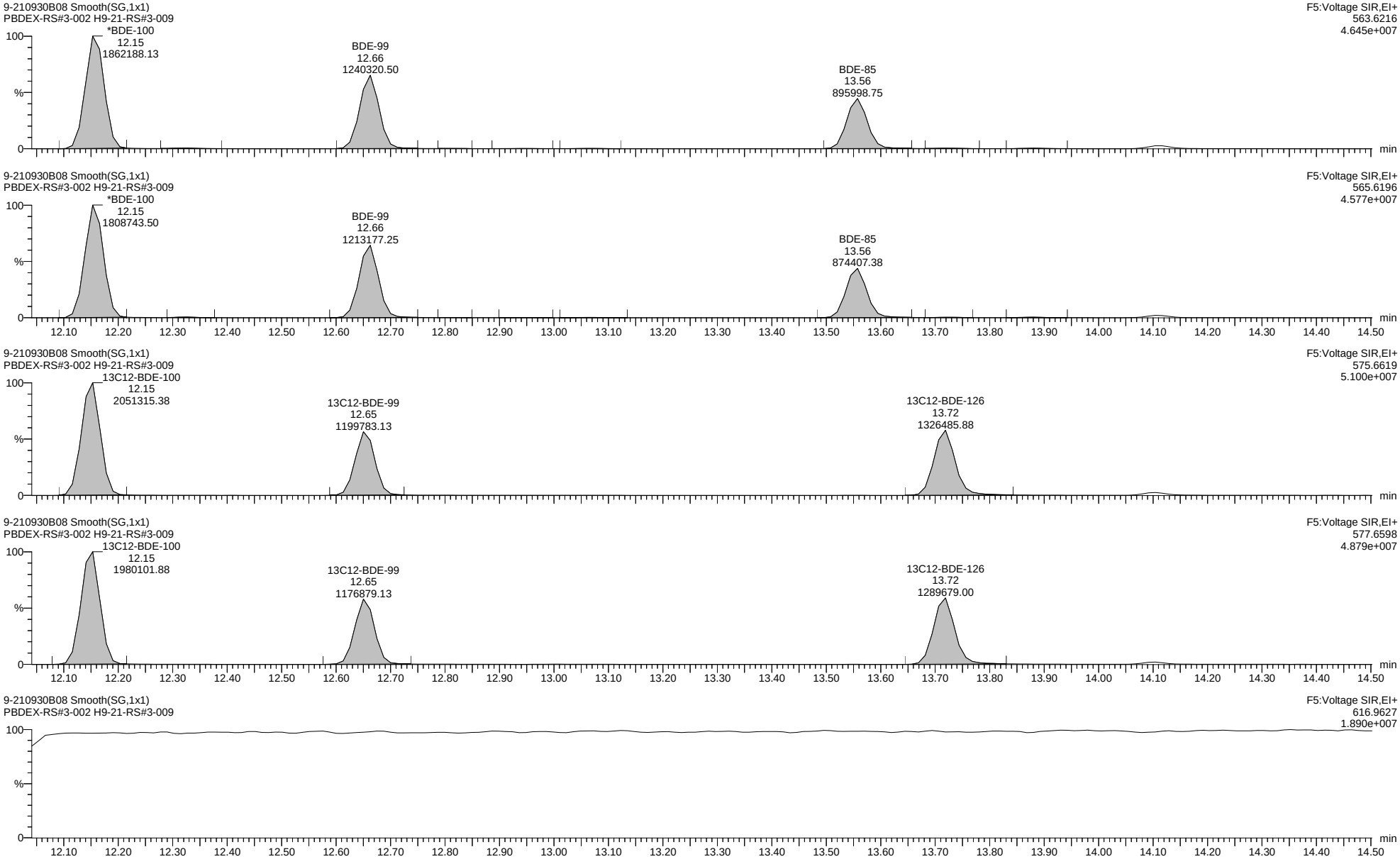

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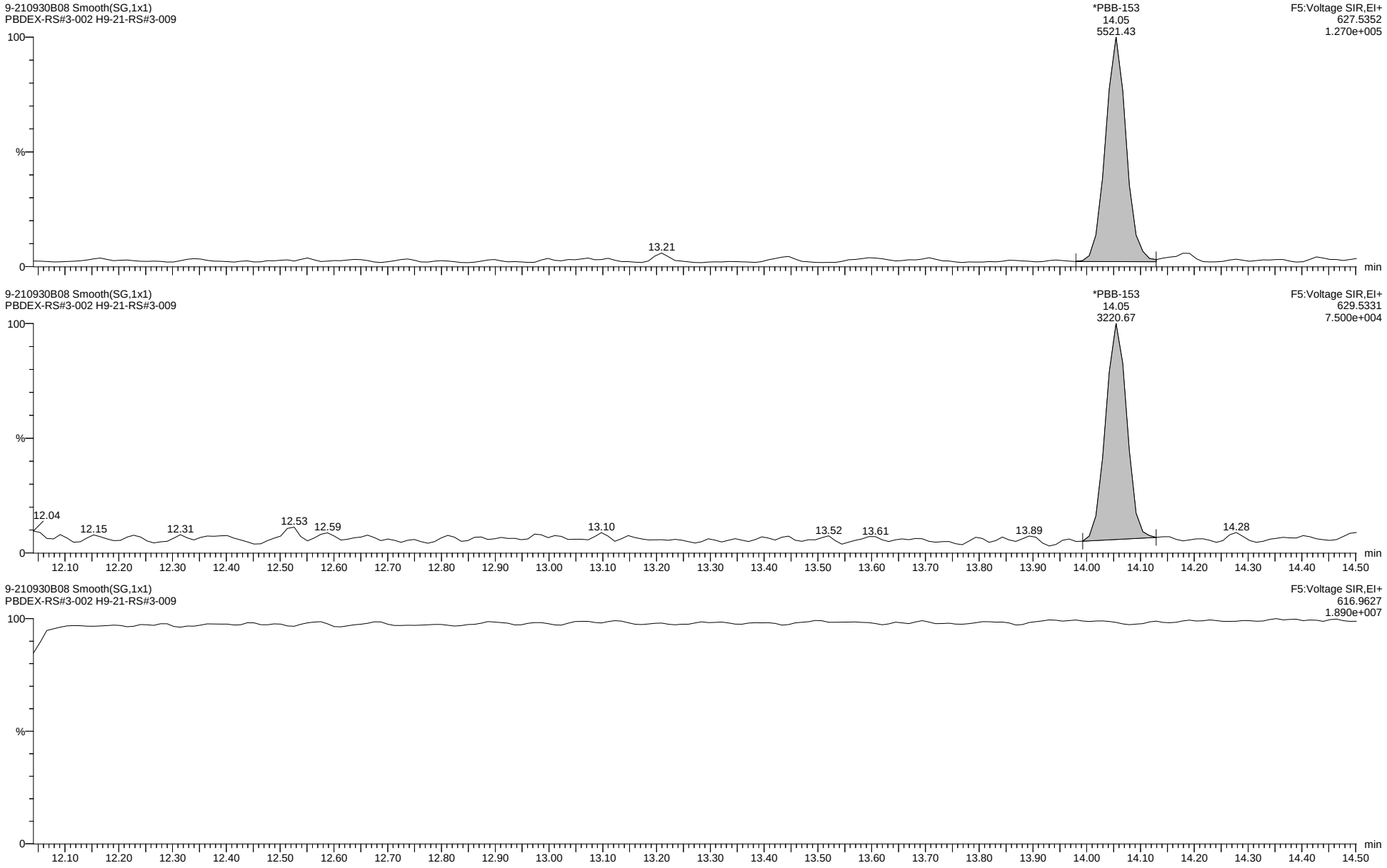

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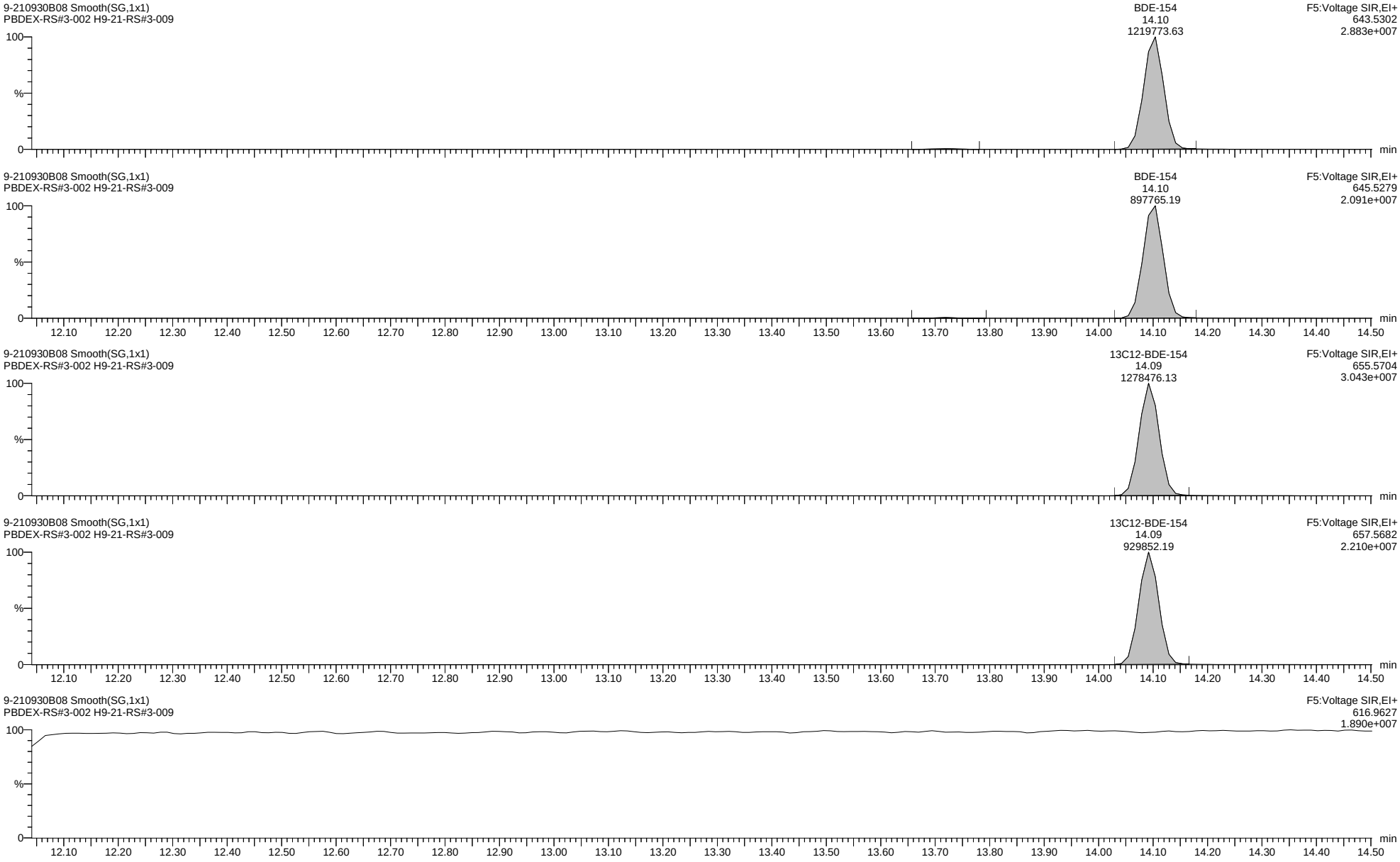
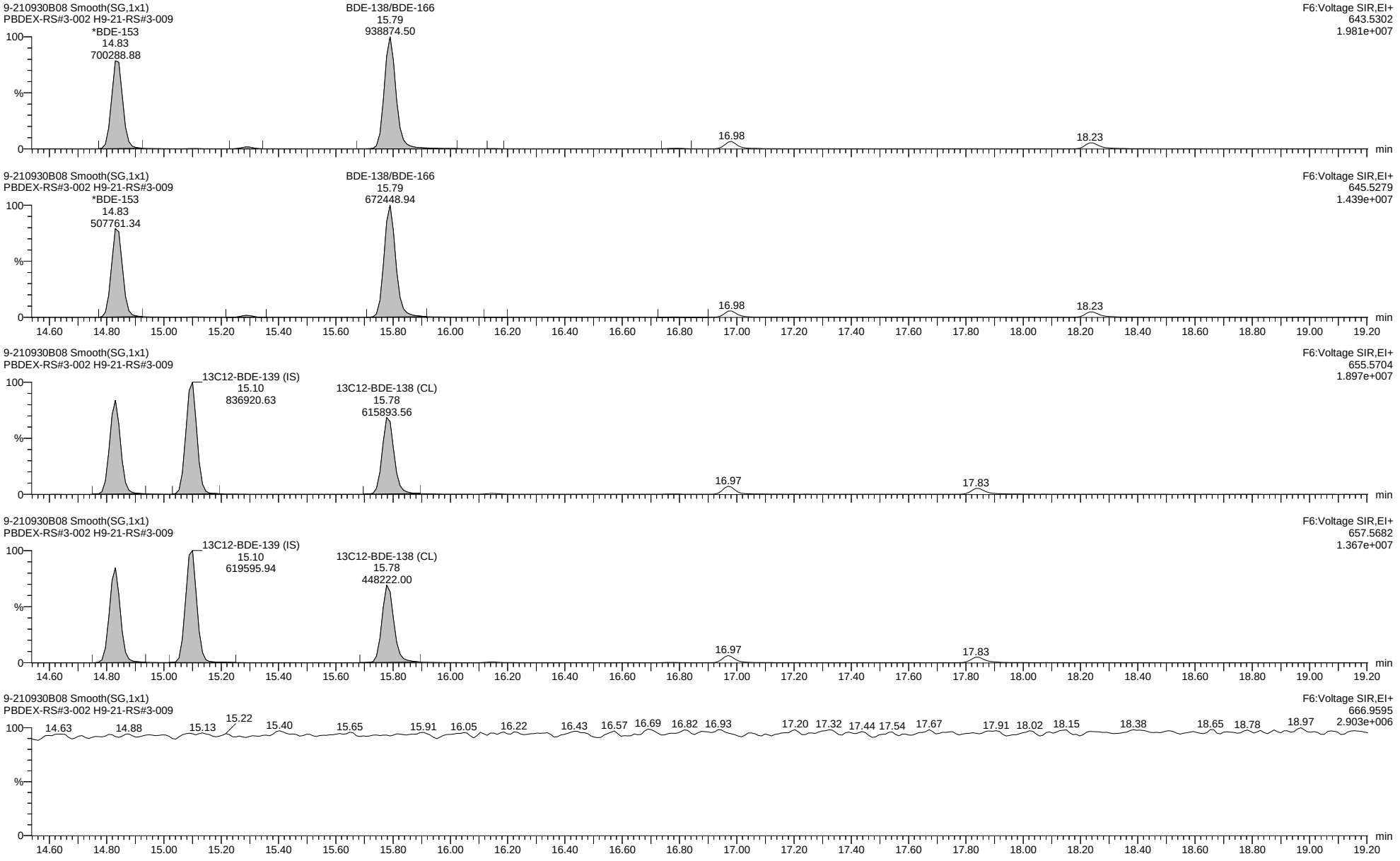


Name: 9-210930B08, Date: 30-Sep-2021, Time: 20:33:37, ID: H9-21-RS#3-009, Description: PBDEX-RS#3-002, Vial: Tray1:47



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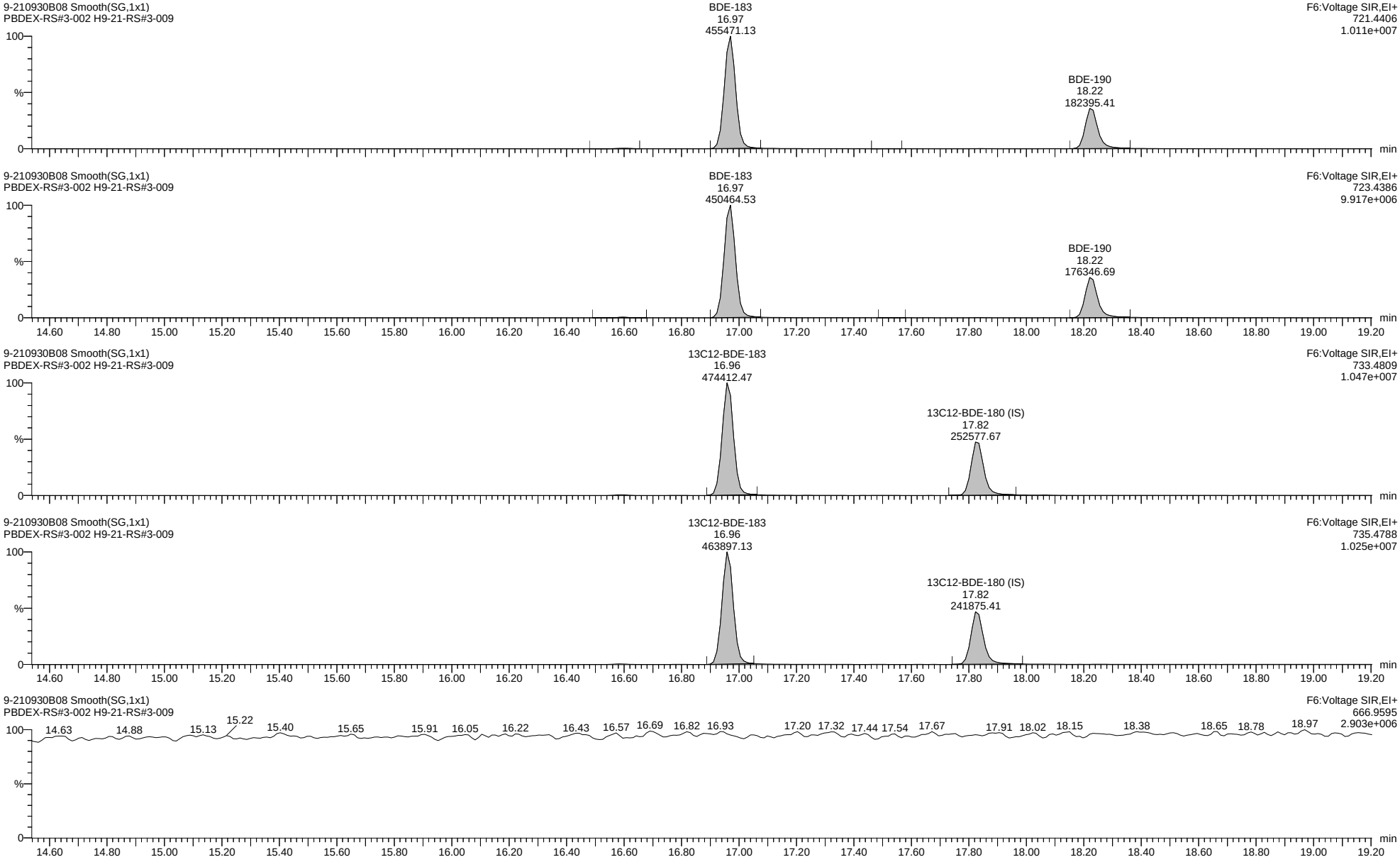

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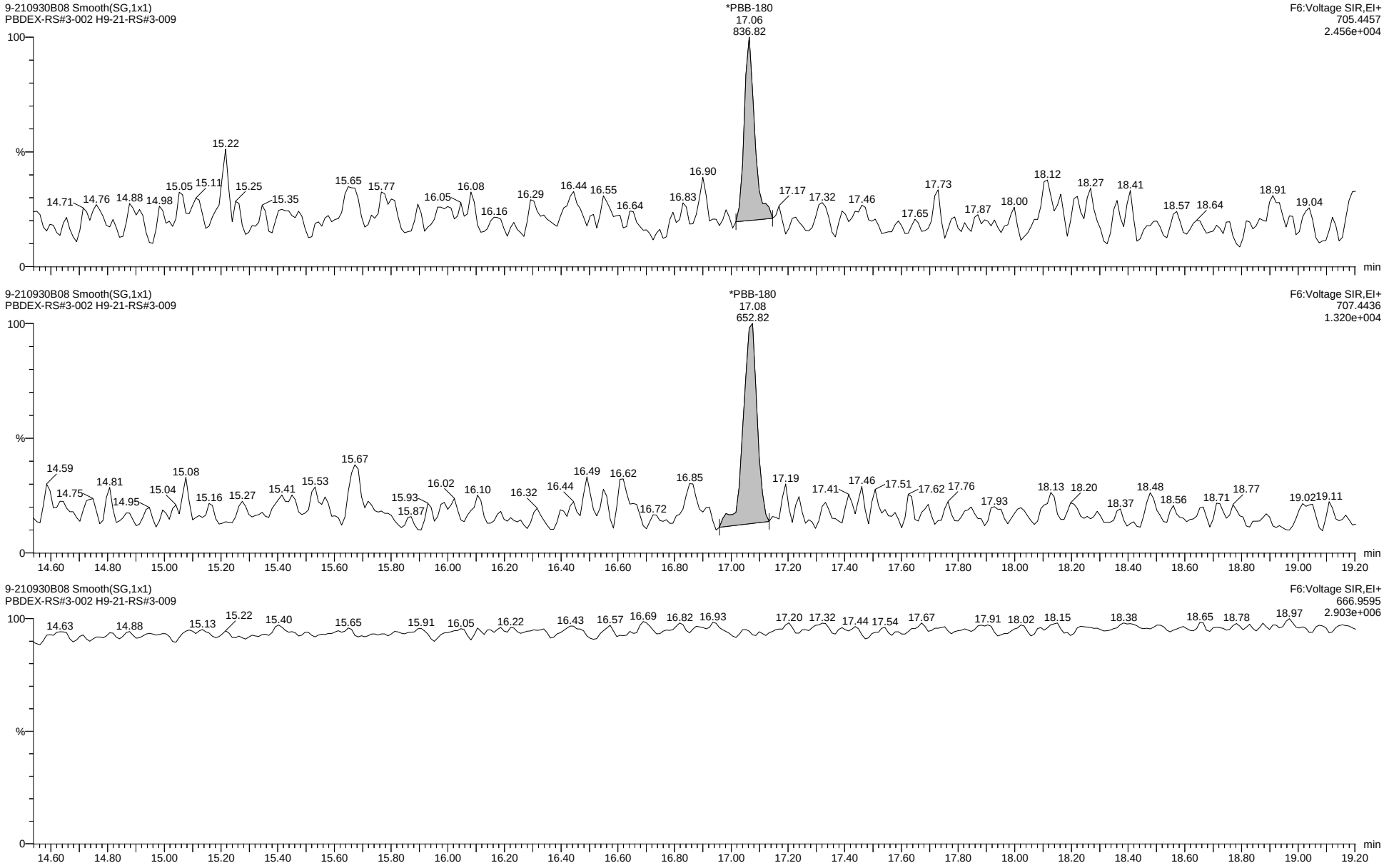

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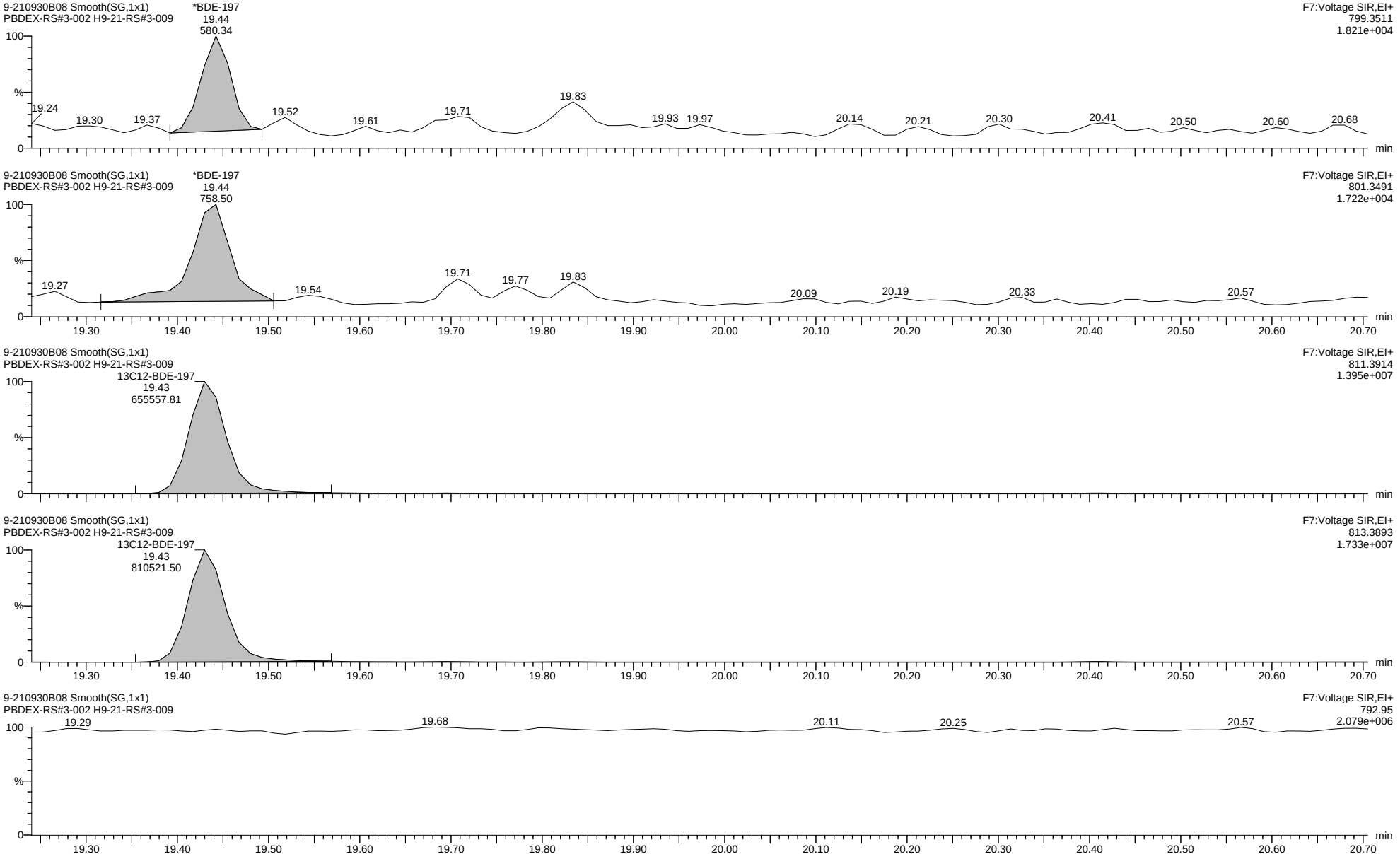
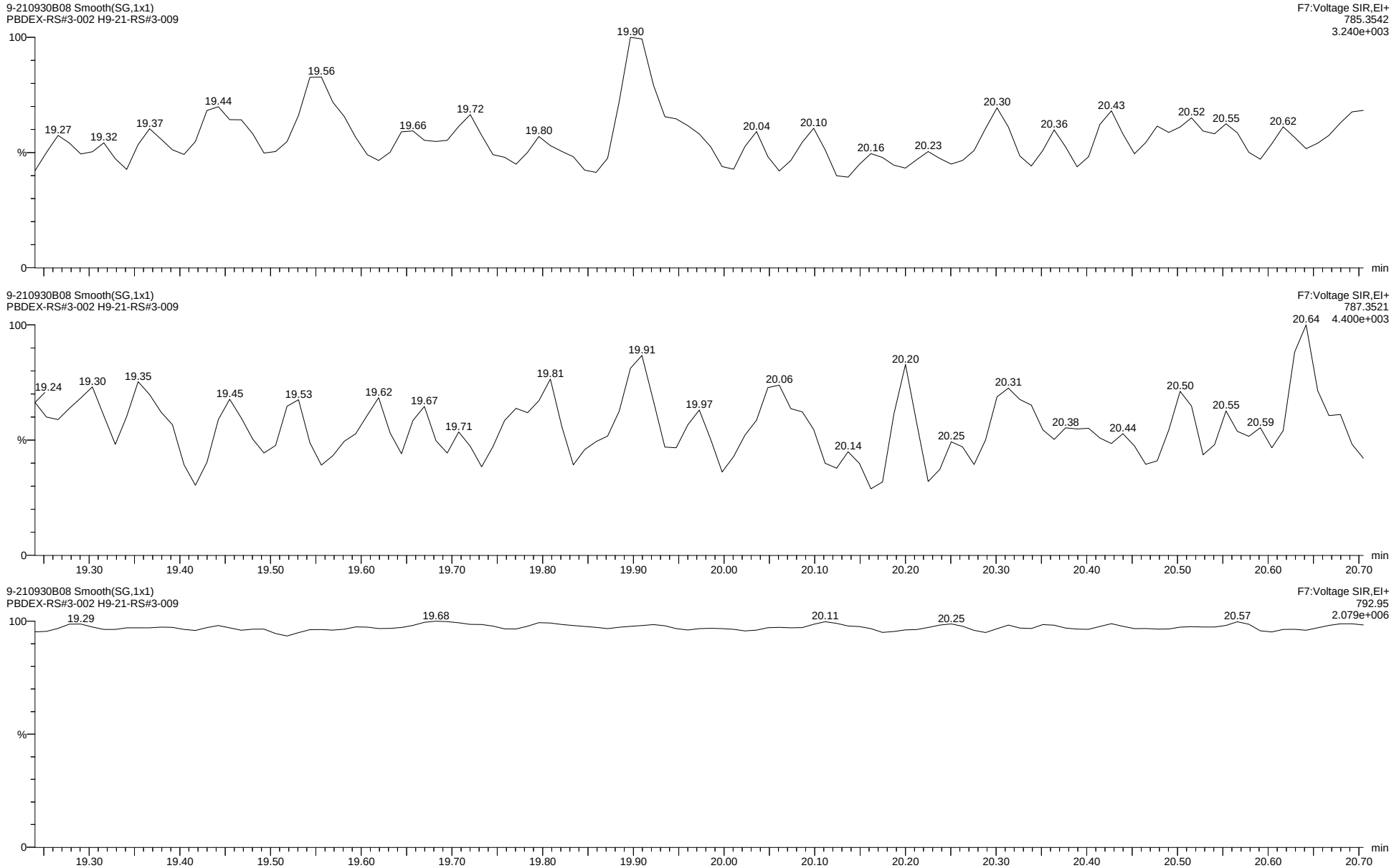


Dataset: I:\Organics Instrument\HIGHRES GCMS Completed Results Files\HR-9\2109\9-210930B-PBDE-RS.qld

Last Altered: Friday, October 01, 2021 09:09:20 Eastern Daylight Time
Printed: Thursday, November 18, 2021 10:21:51 Eastern Standard Time

Name: 9-210930B08, Date: 30-Sep-2021, Time: 20:33:37, ID: H9-21-RS#3-009, Description: PBDEX-RS#3-002, Vial: Tray1:47



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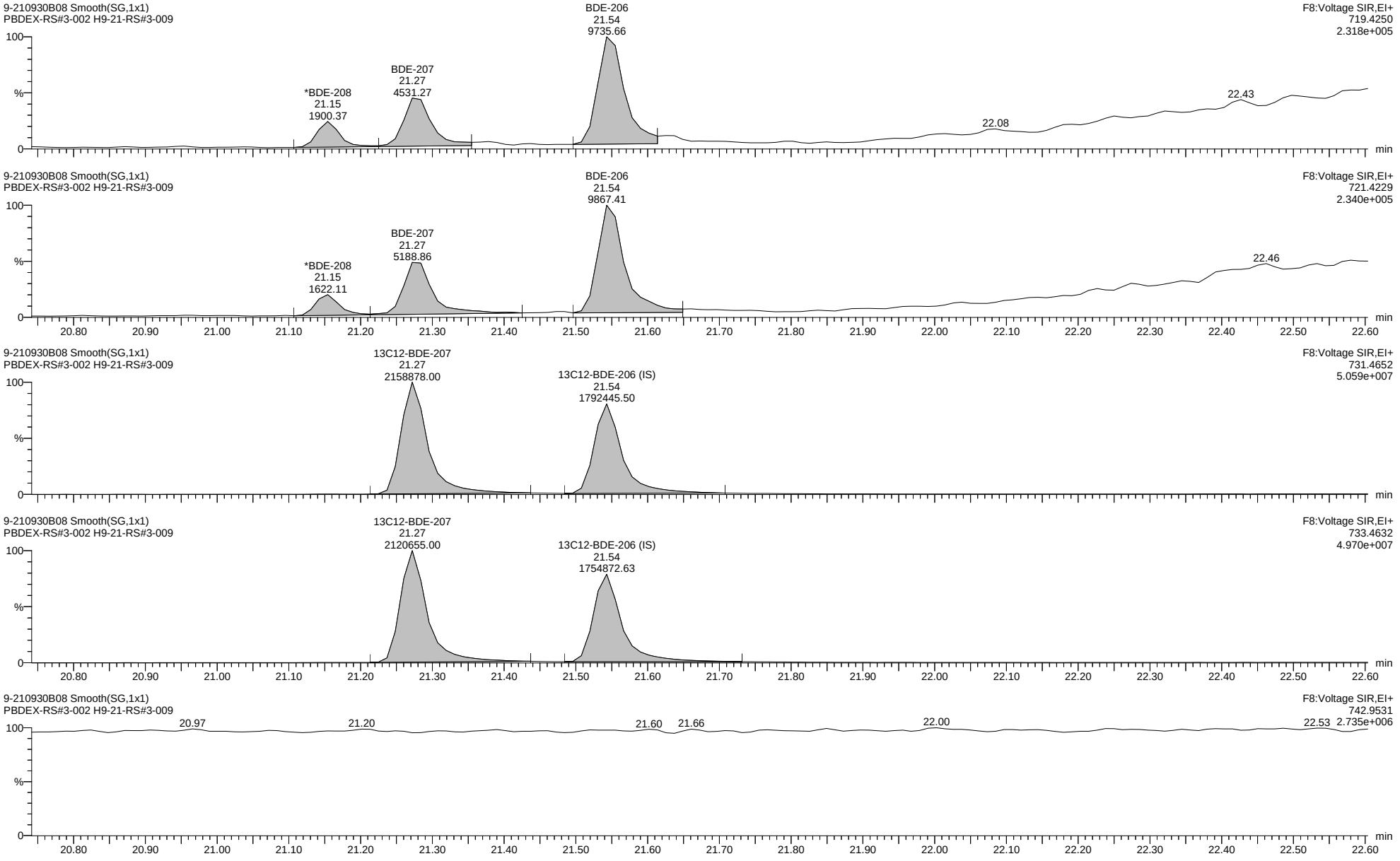

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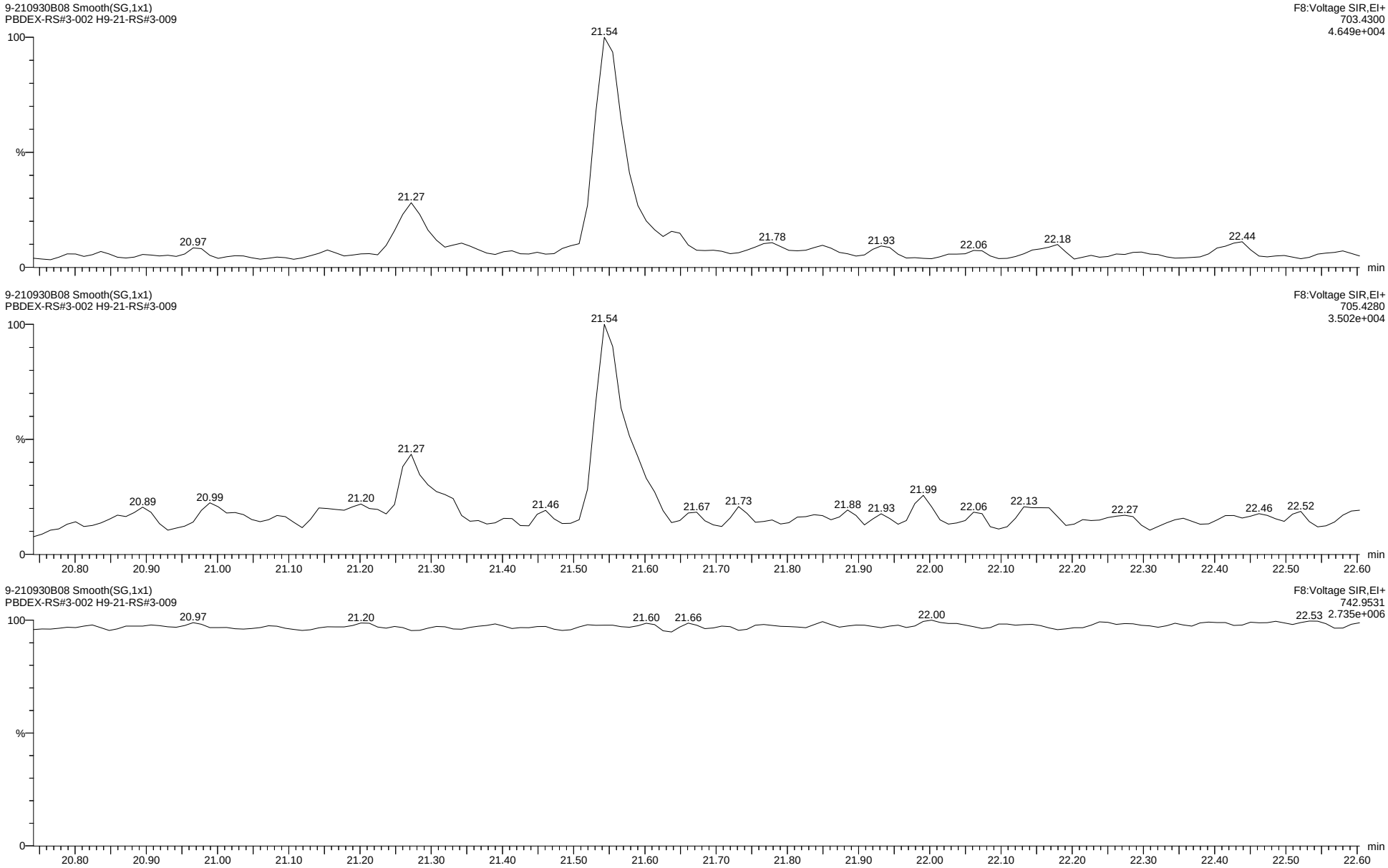
Last Altered: Friday, October 01, 2021 09:09:20 Eastern Daylight Time
Printed: Thursday, November 18, 2021 10:21:51 Eastern Standard Time

Name: 9-210930B08, Date: 30-Sep-2021, Time: 20:33:37, ID: H9-21-RS#3-009, Description: PBDEX-RS#3-002, Vial: Tray1:47

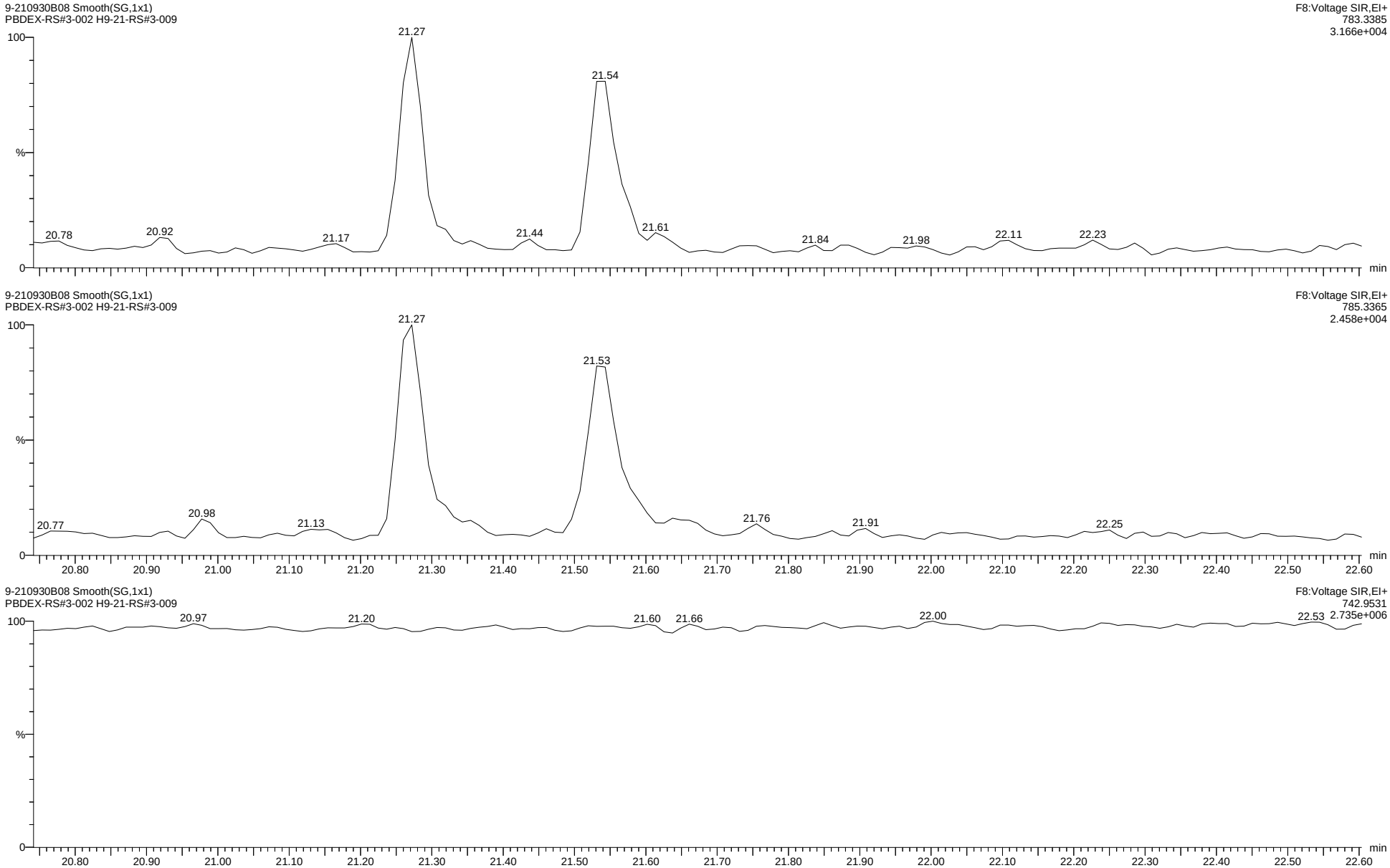


Quantify Sample Template Report **MassLynx MassLynx V4.1 SCN 901**

Dataset: I:\Organics Instrument\HIGHRES GCMS Completed Results Files\HR-9\2109\9-210930B-PBDE-RS.qld

Last Altered: Friday, October 01, 2021 09:09:20 Eastern Daylight Time
Printed: Thursday, November 18, 2021 10:21:51 Eastern Standard Time

Name: 9-210930B08, Date: 30-Sep-2021, Time: 20:33:37, ID: H9-21-RS#3-009, Description: PBDEX-RS#3-002, Vial: Tray1:47



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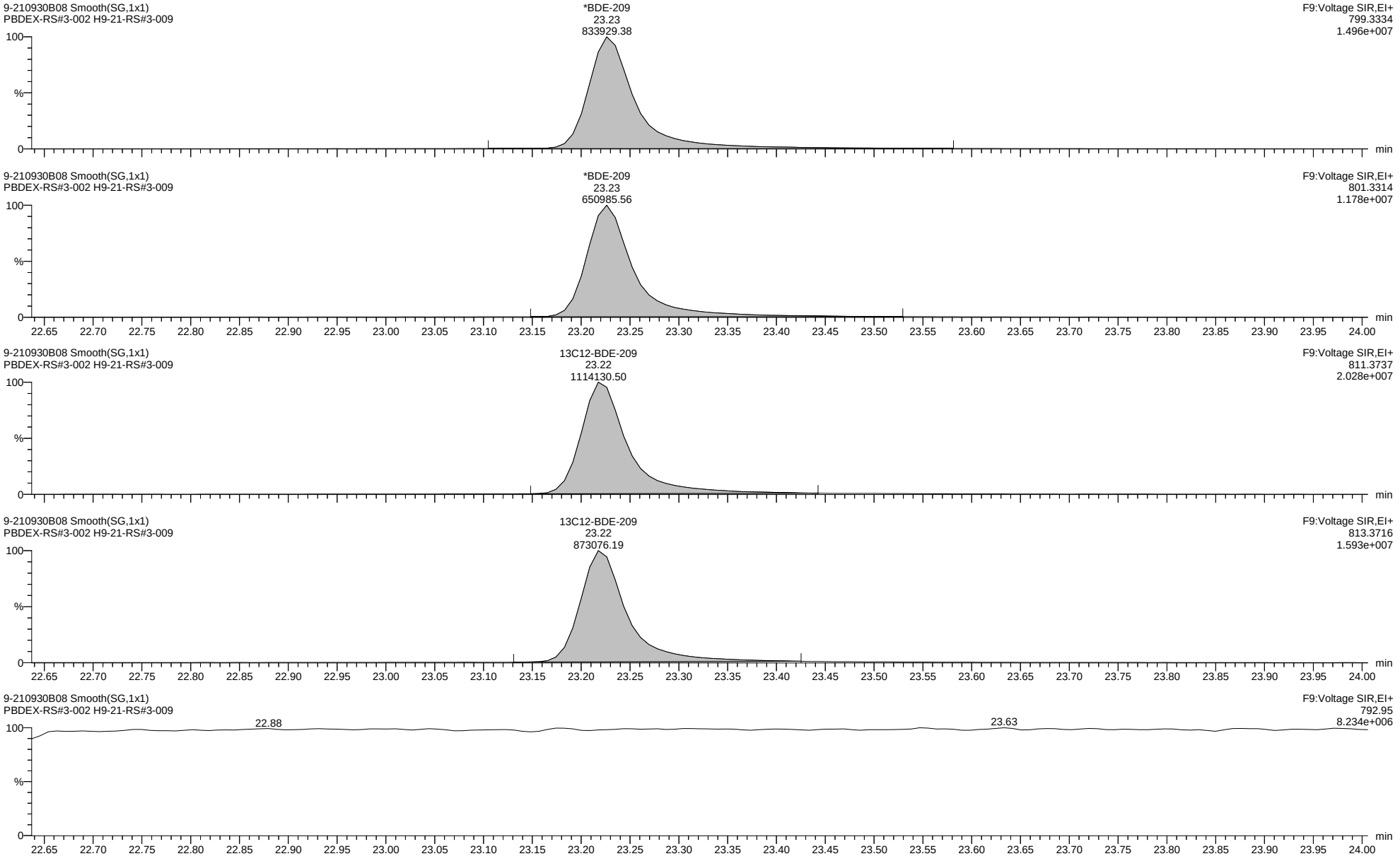

Dataset: I:\Organics Instrument\HIGHRES GCMS Completed Results Files\HR-9\2109\9-210930B-PBDE-RS.qld

Last Altered: Friday, October 01, 2021 09:09:20 Eastern Daylight Time
Printed: Thursday, November 18, 2021 10:21:51 Eastern Standard Time

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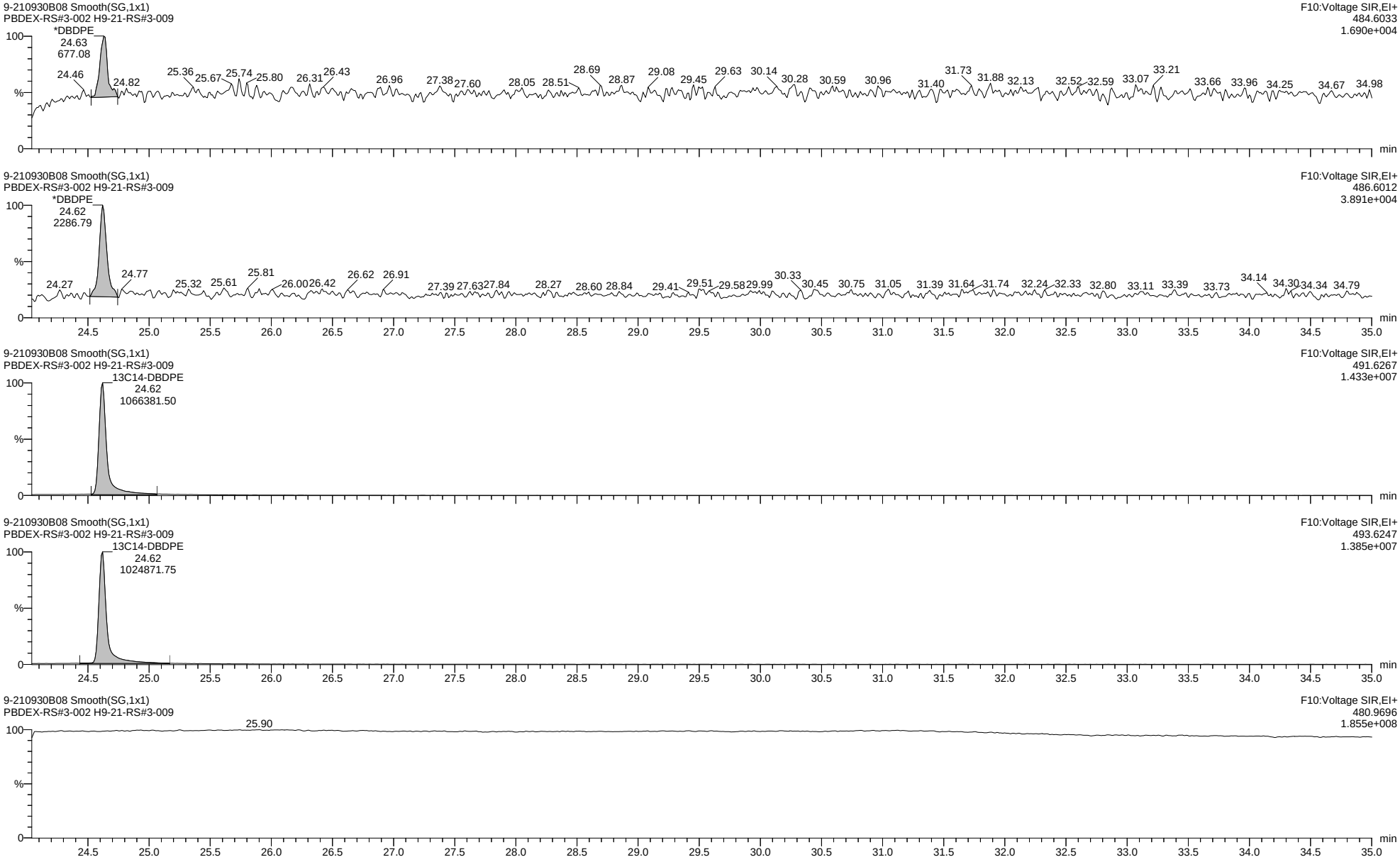
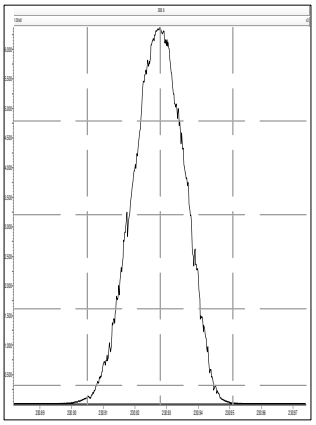


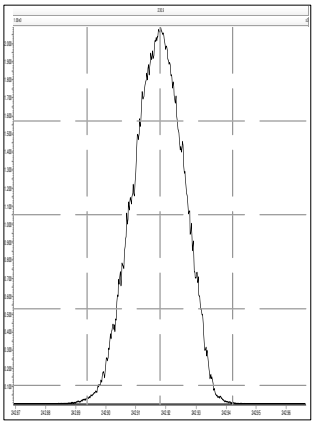
File: Experiment: PBDEX_1614.exp Reference: Pfk-ALS.ref Function: 1 @ 400 (ppm)

Printed: Thursday, September 30, 2021 16:00:46 Eastern Daylight Time

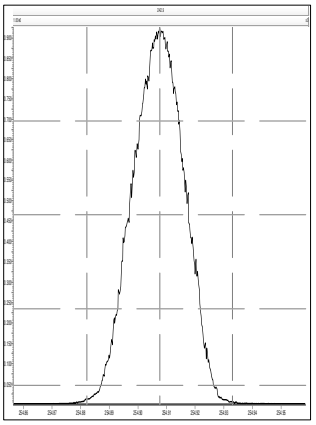
M 230.9856 R 6249



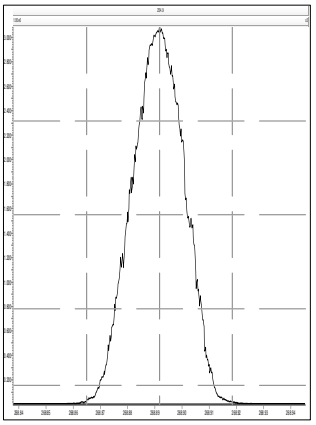
M 242.9856 R 6377



M 254.9856 R 6443



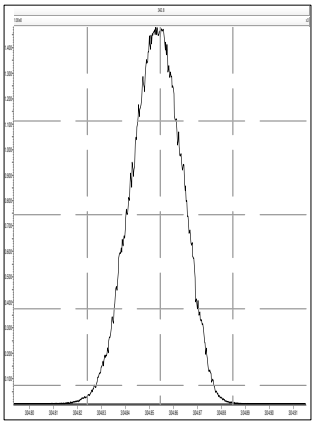
M 268.9824 R 6378



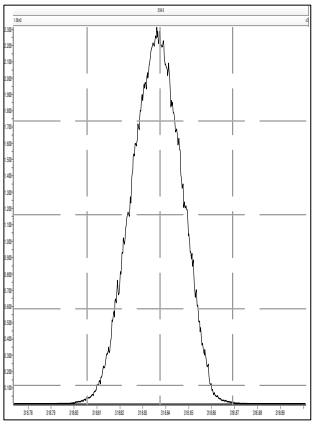
File: Experiment: PBDEX_1614.exp Reference: Pfk-ALS.ref Function: 2 @ 400 (ppm)

Printed: Thursday, September 30, 2021 16:00:58 Eastern Daylight Time

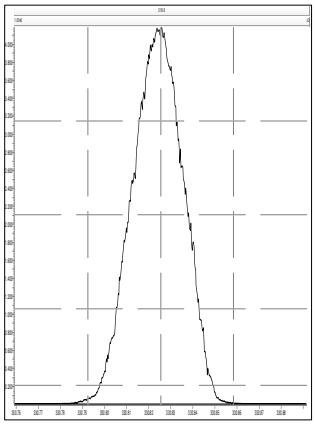
M 304.9824 R 6187



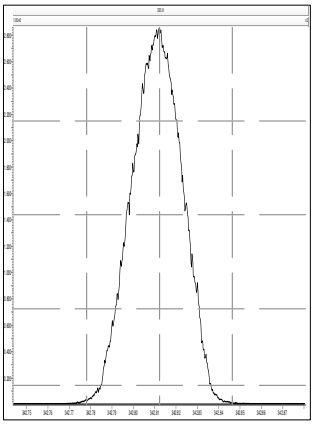
M 318.9792 R 6345



M 330.9792 R 6410



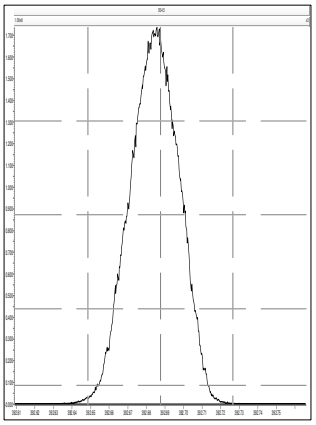
M 342.9792 R 6612



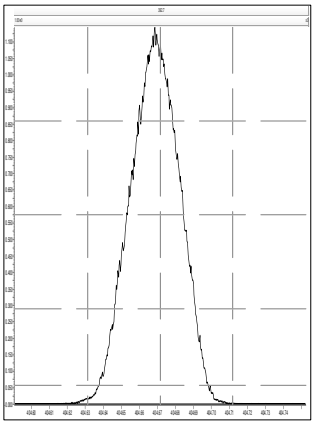
File: Experiment: PBDEX_1614.exp Reference: Pfk-ALS.ref Function: 3 @ 400 (ppm)

Printed: Thursday, September 30, 2021 16:01:18 Eastern Daylight Time

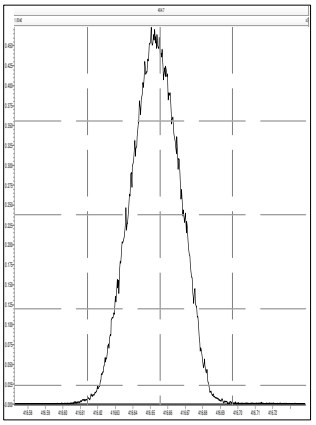
M 392.9760 R 6613



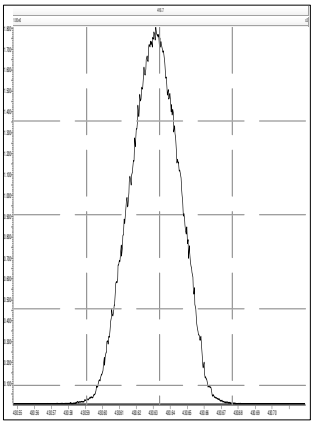
M 404.9760 R 6613



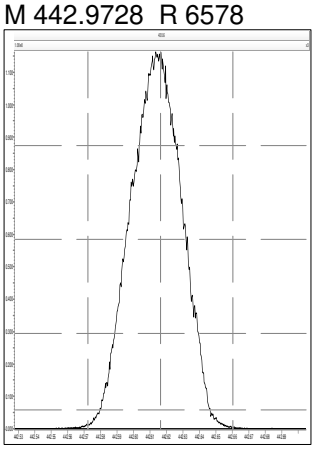
M 416.9760 R 6683



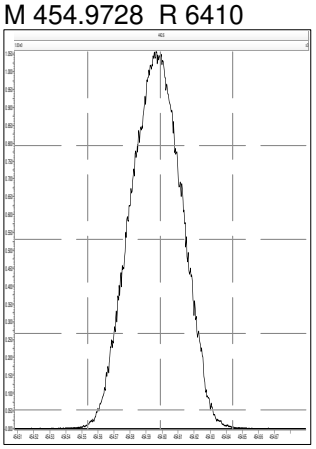
M 430.9728 R 6648



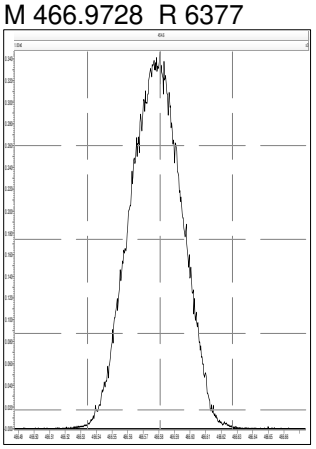
M 442.9728 R 6578



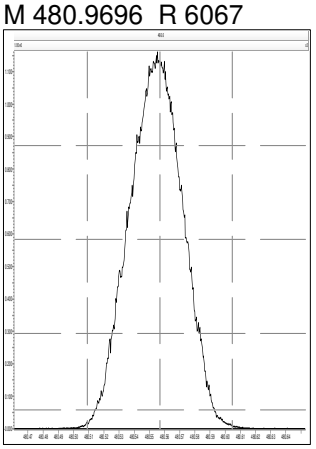
M 454.9728 R 6410



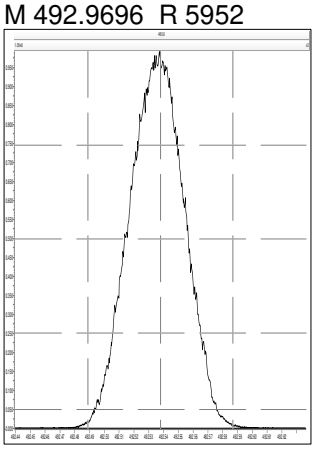
M 466.9728 R 6377



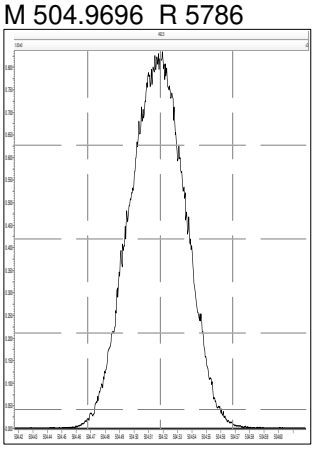
M 480.9696 R 6067



M 492.9696 R 5952



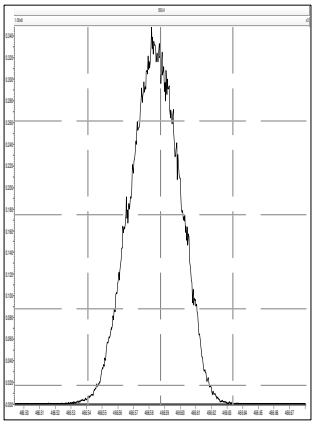
M 504.9696 R 5786



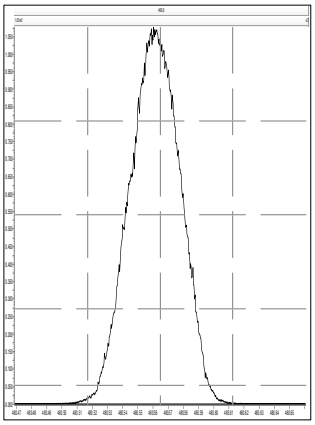
File: Experiment: PBDEX_1614.exp Reference: Pfk-ALS.ref Function: 4 @ 400 (ppm)

Printed: Thursday, September 30, 2021 16:01:39 Eastern Daylight Time

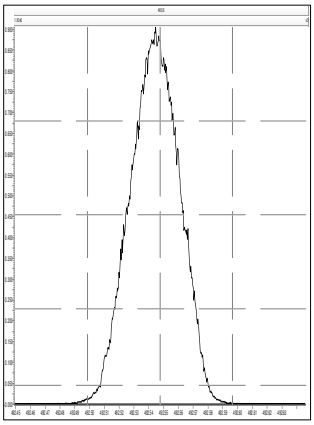
M 466.9728 R 6442



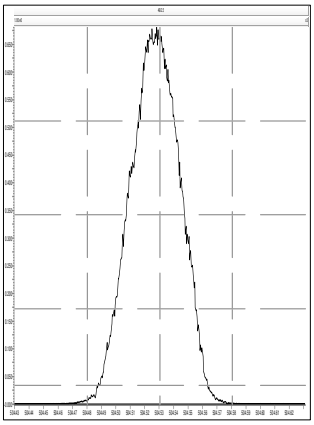
M 480.9696 R 6510



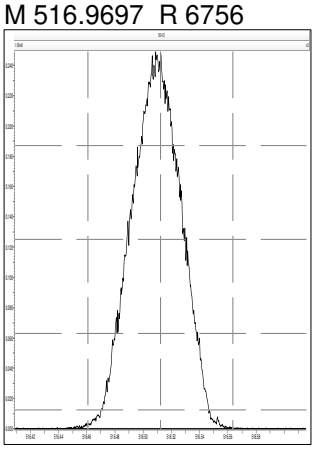
M 492.9696 R 6757



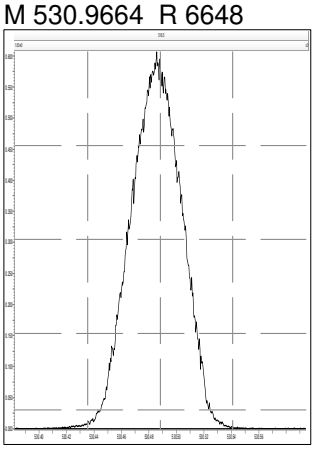
M 504.9696 R 6613



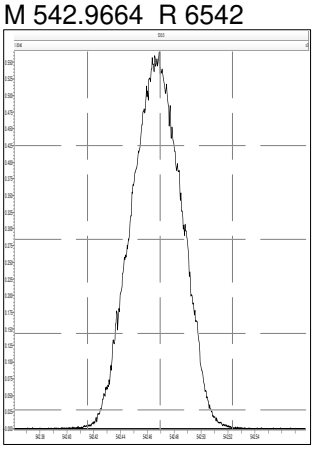
M 516.9697 R 6756



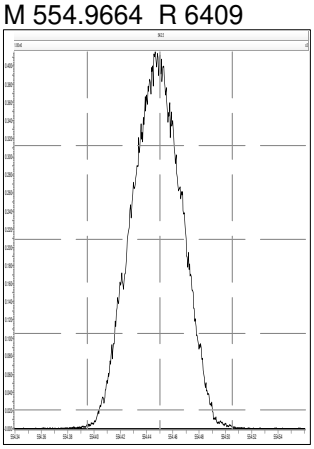
M 530.9664 R 6648



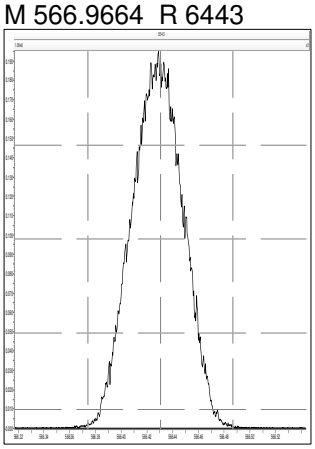
M 542.9664 R 6542



M 554.9664 R 6409



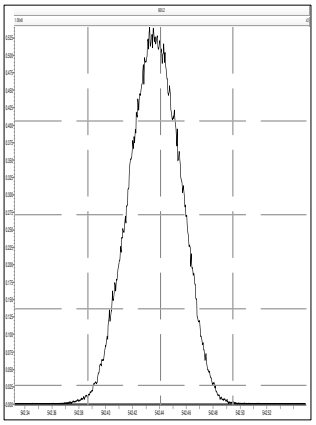
M 566.9664 R 6443



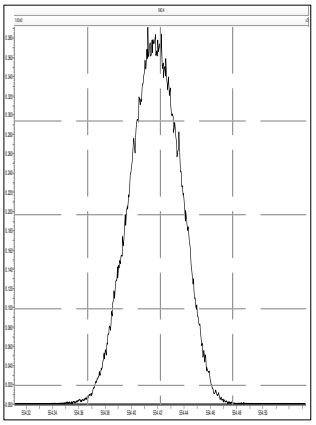
File: Experiment: PBDEX_1614.exp Reference: Pfk-ALS.ref Function: 5 @ 400 (ppm)

Printed: Thursday, September 30, 2021 16:02:02 Eastern Daylight Time

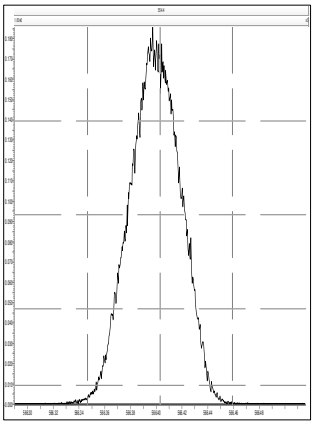
M 542.9664 R 5980



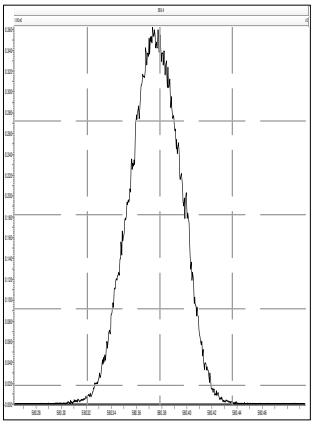
M 554.9664 R 6219



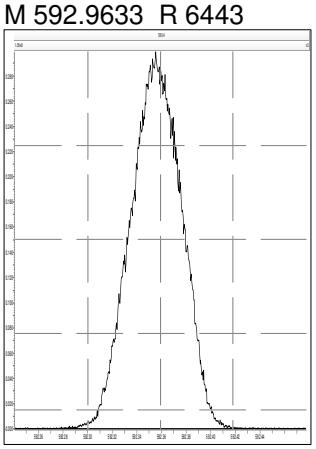
M 566.9664 R 6410



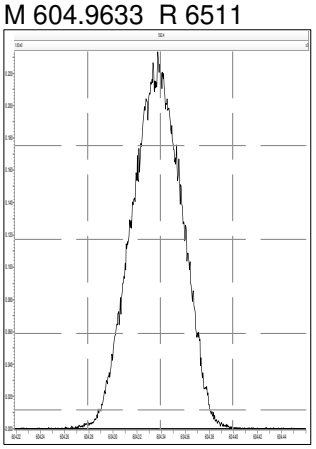
M 580.9633 R 6249



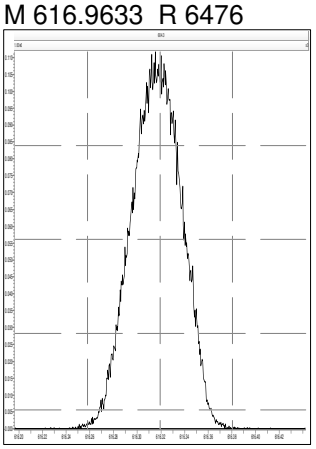
M 592.9633 R 6443



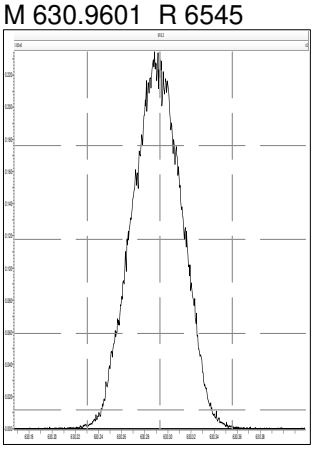
M 604.9633 R 6511



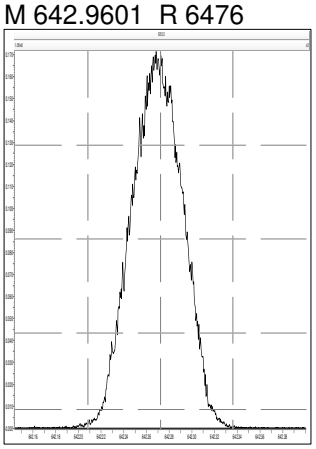
M 616.9633 R 6476



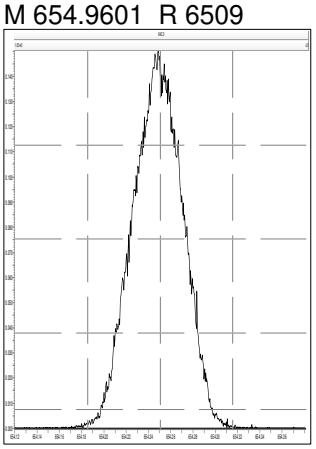
M 630.9601 R 6545



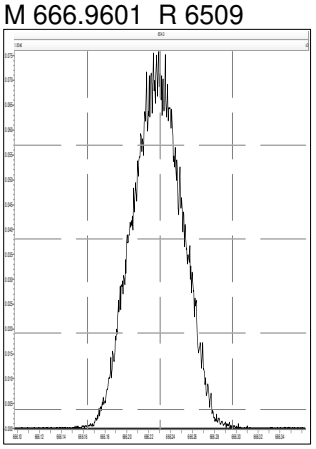
M 642.9601 R 6476



M 654.9601 R 6509



M 666.9601 R 6509



File: Experiment: PBDEX_1614.exp Reference: Pfk-ALS.ref Function: 6 @ 400 (ppm)

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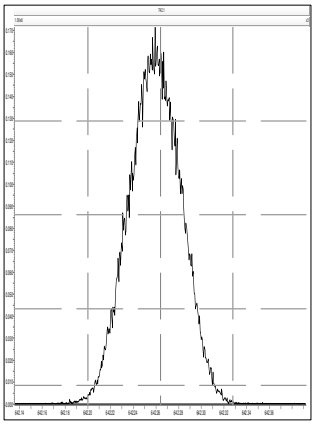
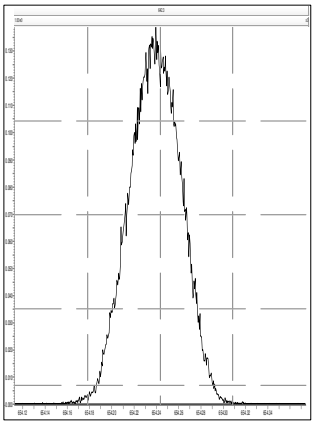
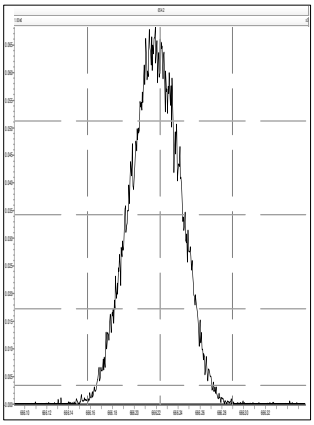
M 642.9601 R 6068



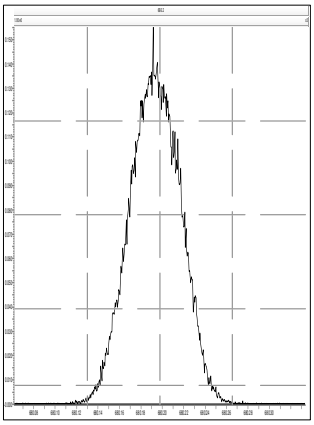
M 654.9601 R 6187



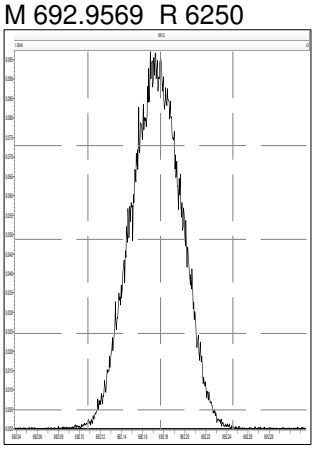
M 666.9601 R 6313



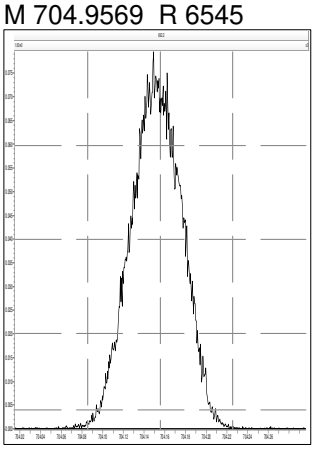
M 680.9569 R 6377



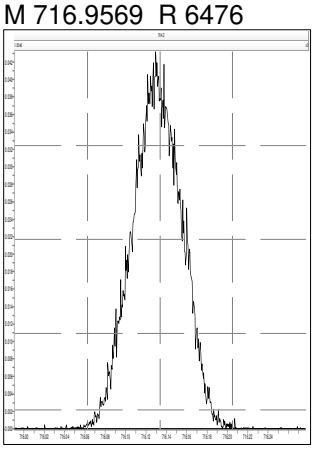
M 692.9569 R 6250



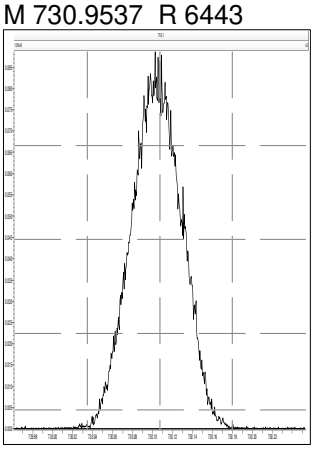
M 704.9569 R 6545



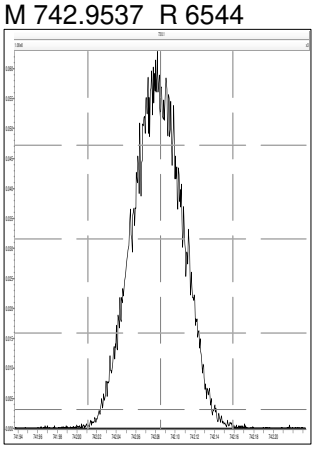
M 716.9569 R 6476



M 730.9537 R 6443



M 742.9537 R 6544



File: Experiment: PBDEX_1614.exp Reference: Pfk-ALS.ref Function: 7 @ 400 (ppm)

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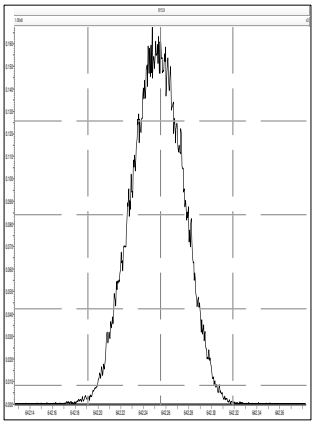
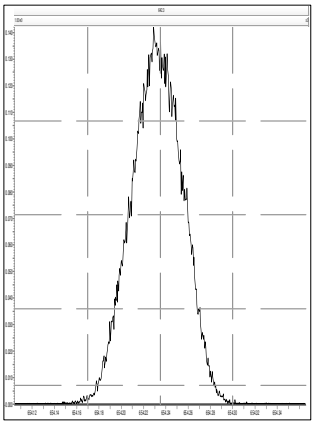
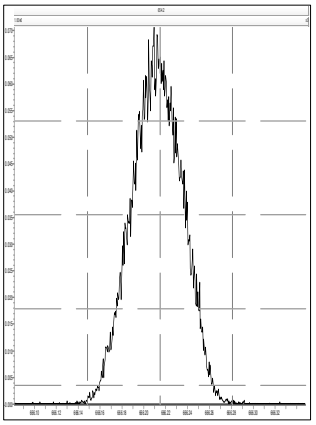
M 642.9601 R 6127



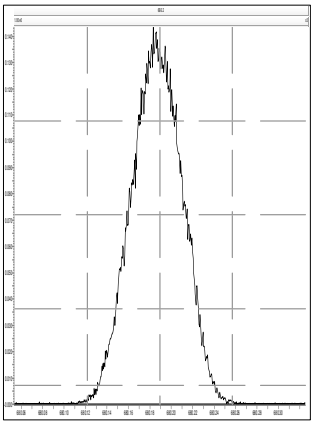
M 654.9601 R 6218



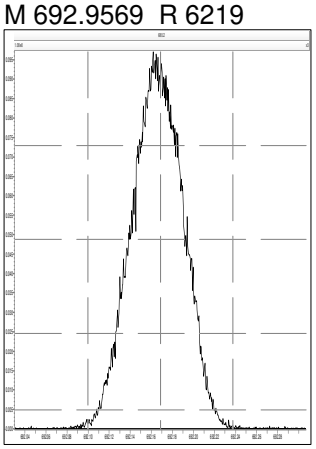
M 666.9601 R 6377



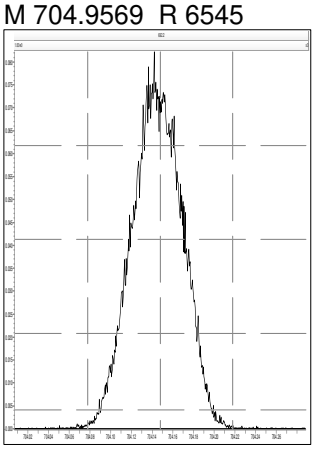
M 680.9569 R 6187



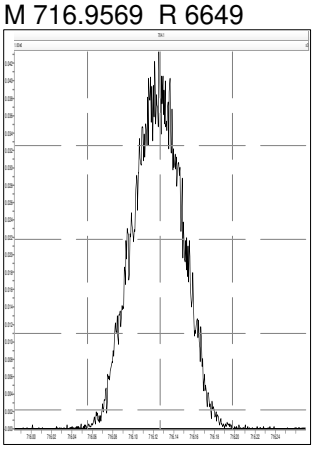
M 692.9569 R 6219



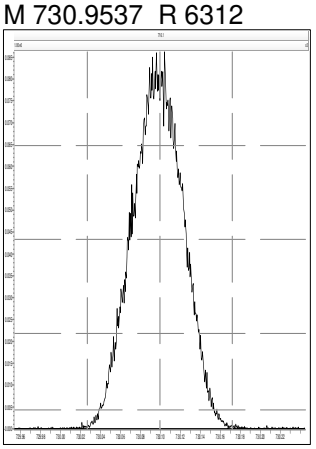
M 704.9569 R 6545



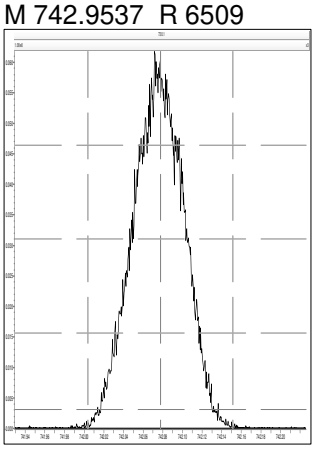
M 716.9569 R 6649



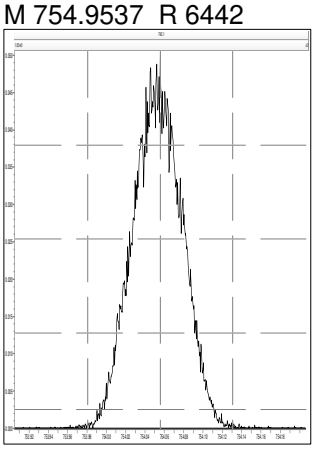
M 730.9537 R 6312



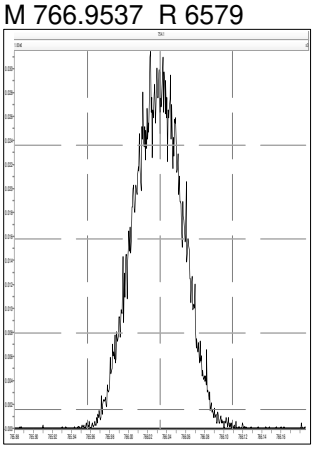
M 742.9537 R 6509



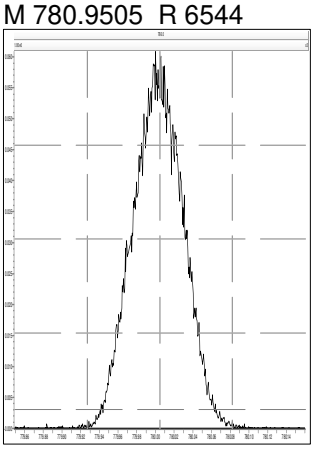
M 754.9537 R 6442



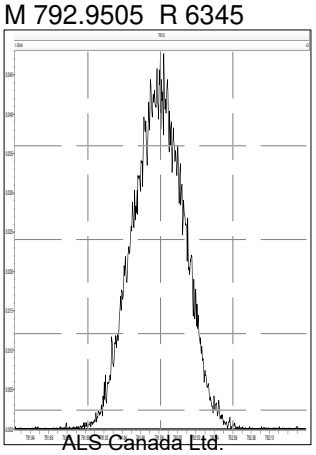
M 766.9537 R 6579



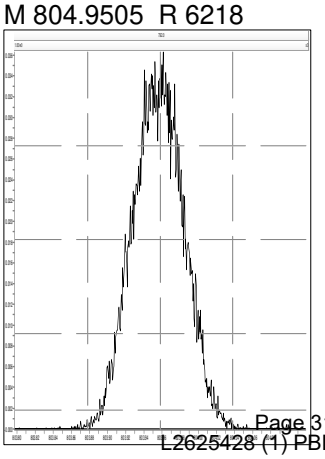
M 780.9505 R 6544



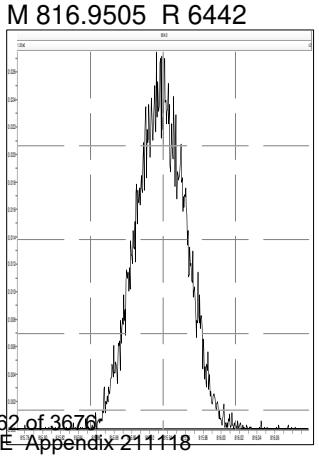
M 792.9505 R 6345



M 804.9505 R 6218



M 816.9505 R 6442



File: Experiment: PBDEX_1614.exp Reference: Pfk-ALS.ref Function: 8 @ 400 (ppm)

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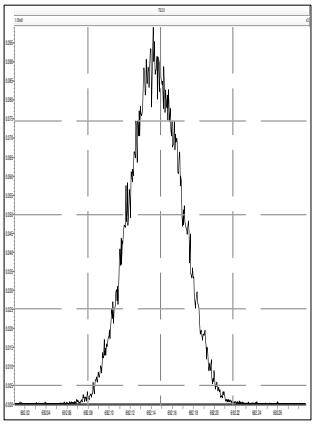
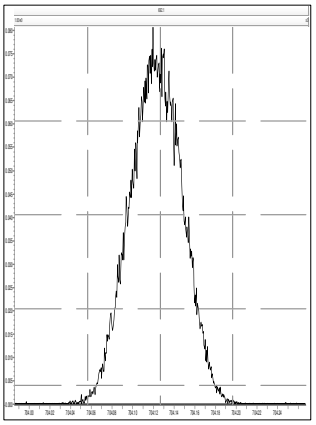
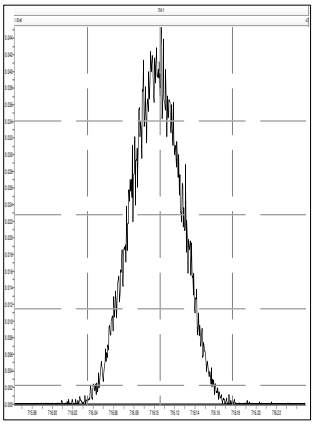
M 692.9569 R 6038



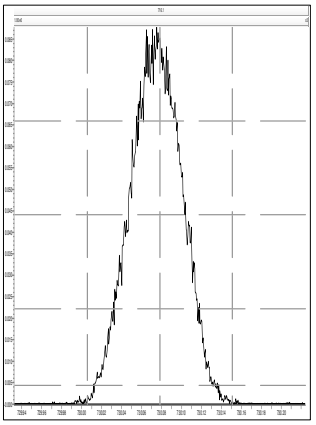
M 704.9569 R 6098



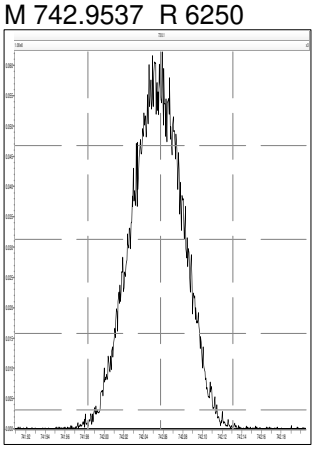
M 716.9569 R 6345



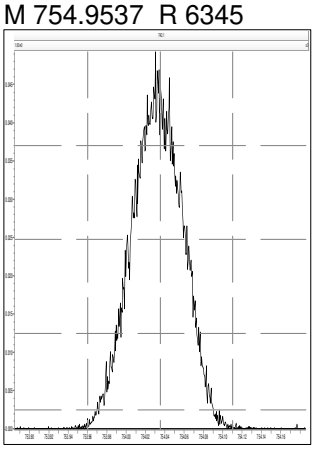
M 730.9537 R 6038



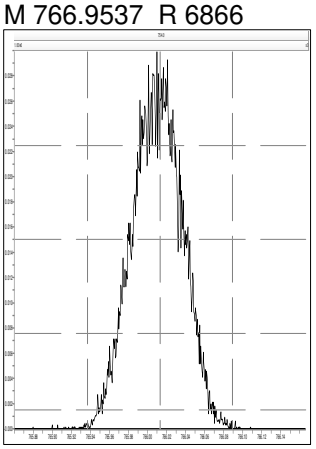
M 742.9537 R 6250



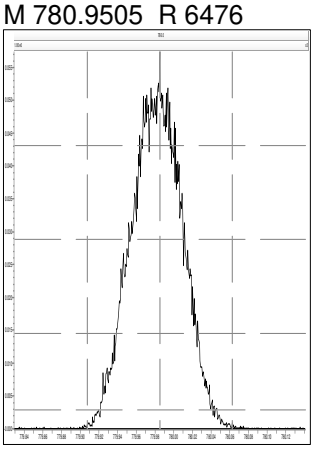
M 754.9537 R 6345



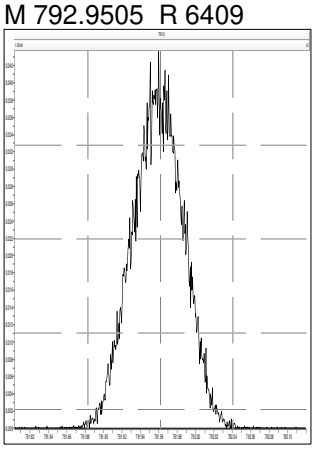
M 766.9537 R 6866



M 780.9505 R 6476



M 792.9505 R 6409



File: Experiment: PBDEX_1614.exp Reference: Pfk-ALS.ref Function: 9 @ 400 (ppm)

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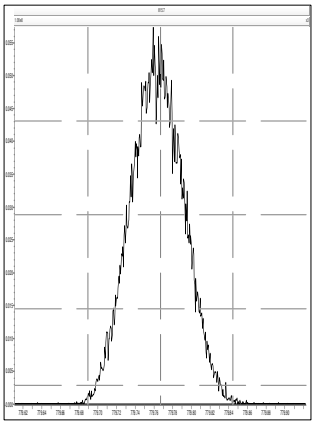
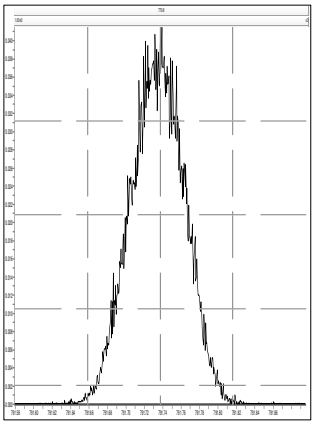
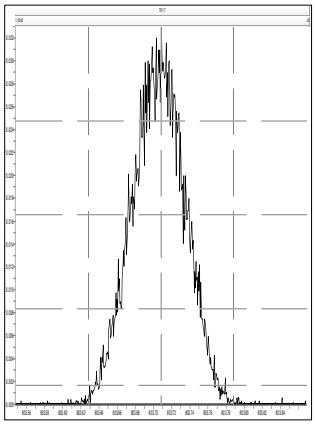
M 780.9505 R 5924



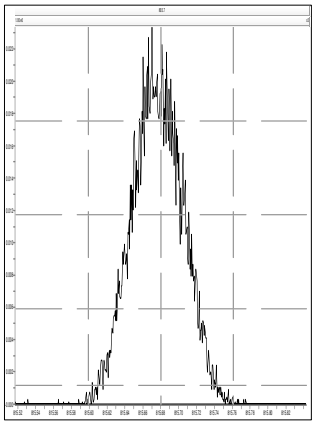
M 792.9505 R 5868



M 804.9505 R 6097



M 816.9505 R 6721



File: Experiment: PBDEX_1614.exp Reference: Pfk-ALS.ref Function: 10 @ 400 (ppm)

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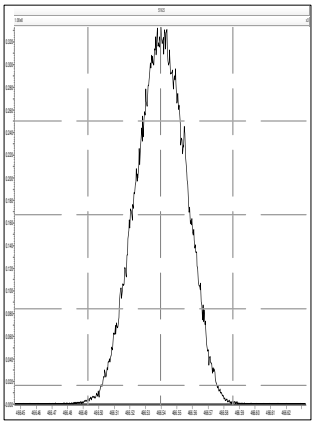
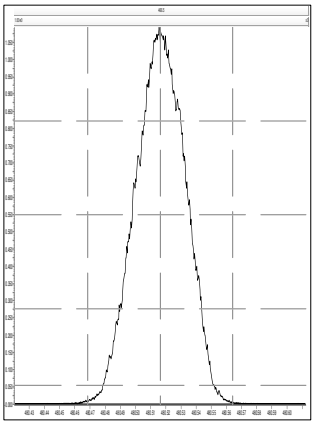
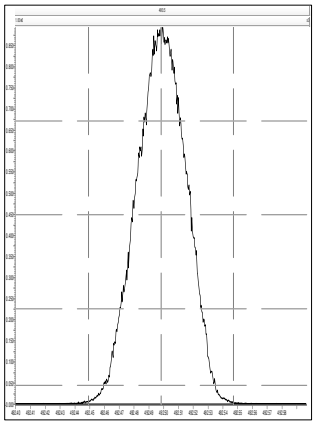
M 466.9728 R 6313



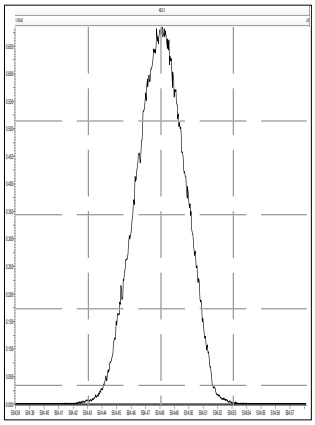
M 480.9696 R 6509



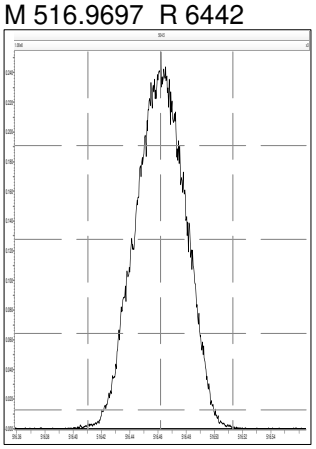
M 492.9696 R 6510



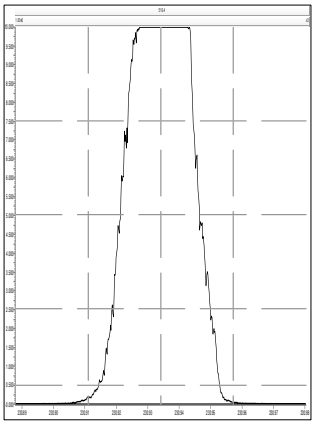
M 504.9696 R 6614



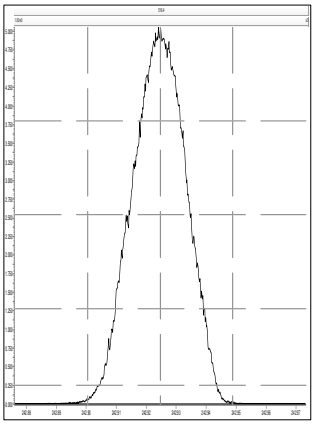
M 516.9697 R 6442



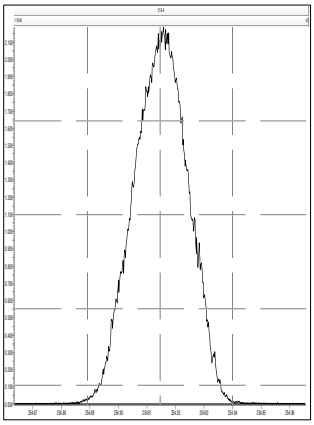
M 230.9856 R 5980



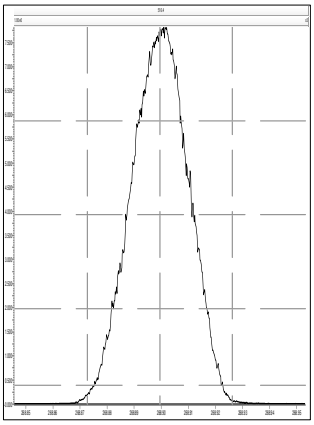
M 242.9856 R 6220



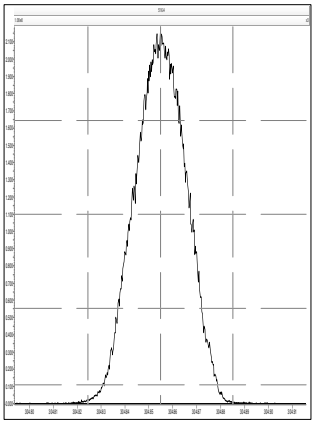
M 254.9856 R 5952



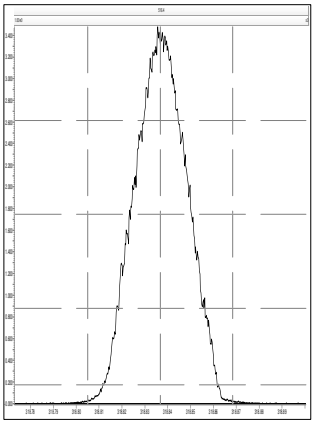
M 268.9824 R 5694



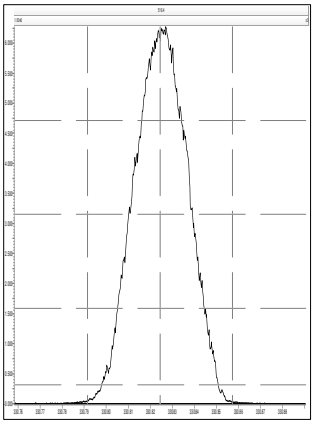
M 304.9824 R 6361



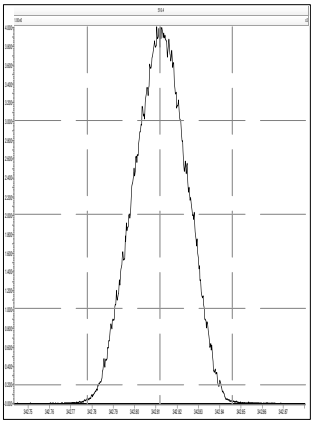
M 318.9792 R 6394



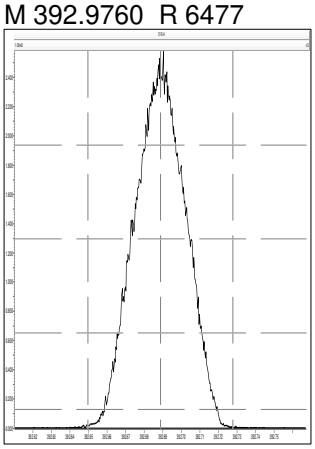
M 330.9792 R 6188



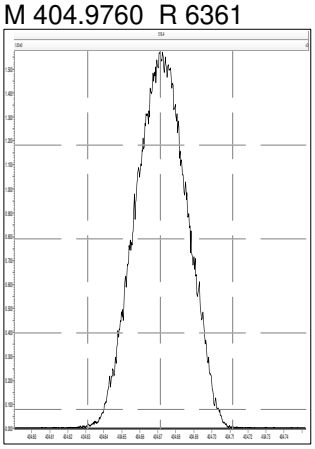
M 342.9792 R 6038



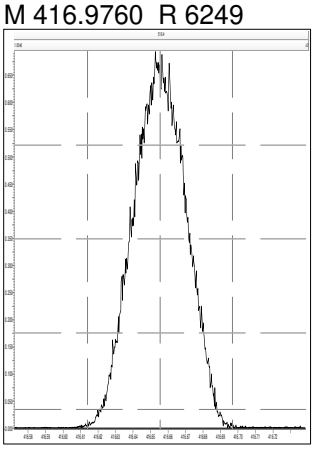
M 392.9760 R 6477



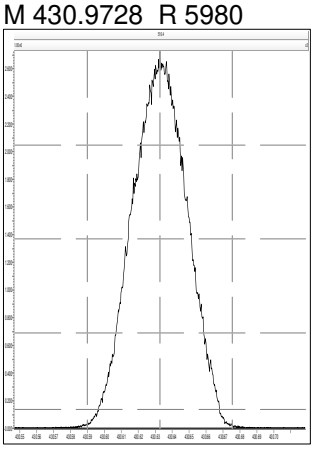
M 404.9760 R 6361



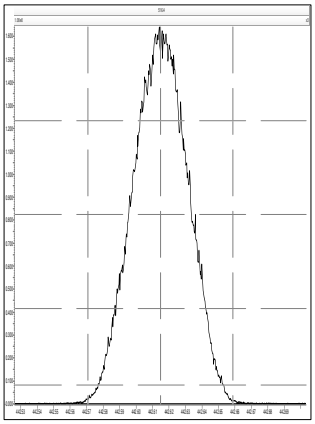
M 416.9760 R 6249



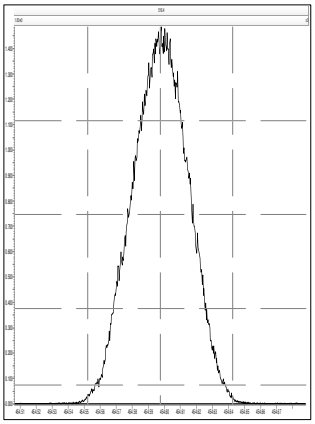
M 430.9728 R 5980



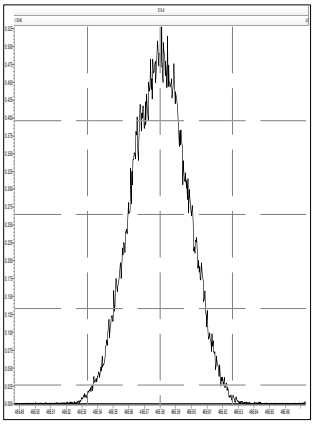
M 442.9728 R 5800



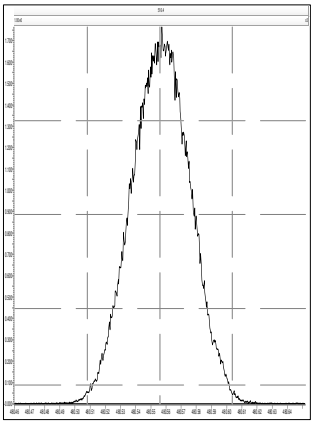
M 454.9728 R 5733



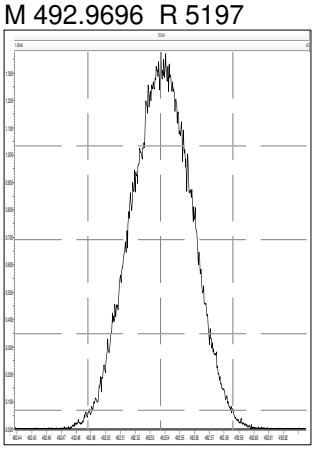
M 466.9728 R 5580



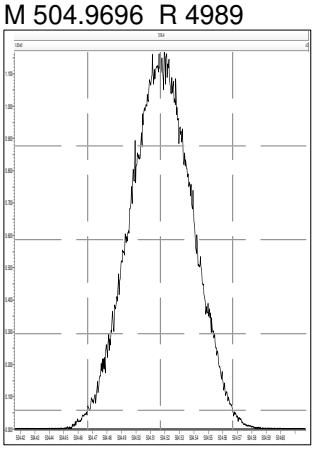
M 480.9696 R 5341



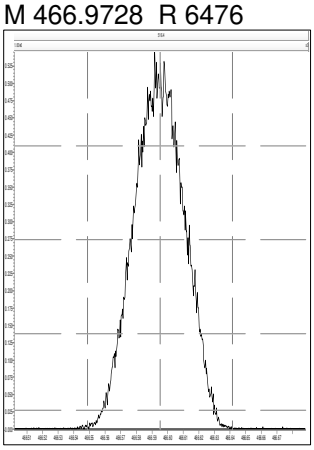
M 492.9696 R 5197



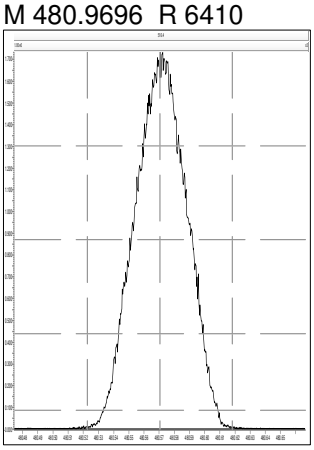
M 504.9696 R 4989



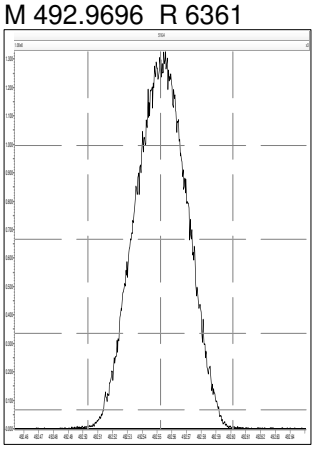
M 466.9728 R 6476



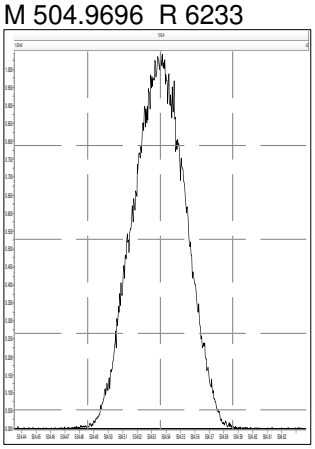
M 480.9696 R 6410



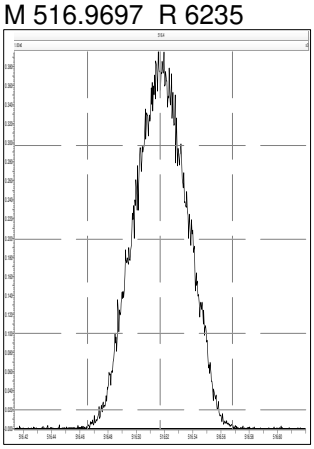
M 492.9696 R 6361



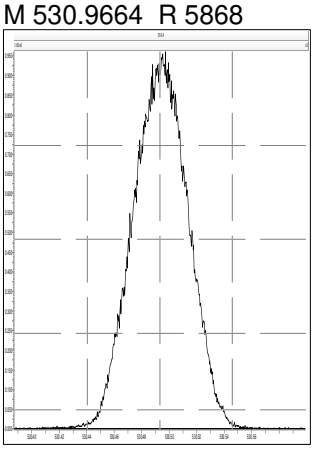
M 504.9696 R 6233



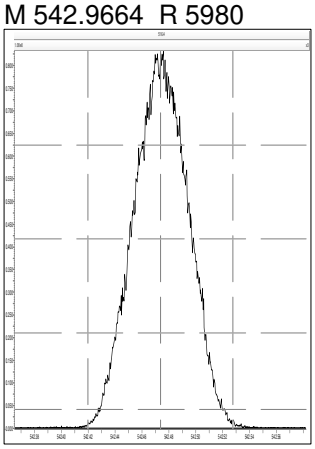
M 516.9697 R 6235



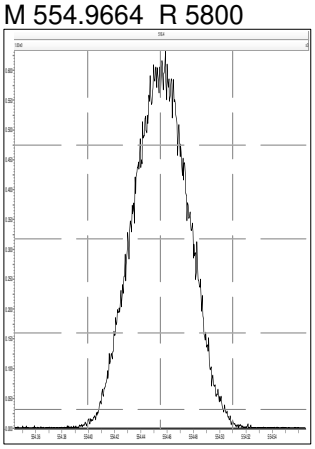
M 530.9664 R 5868



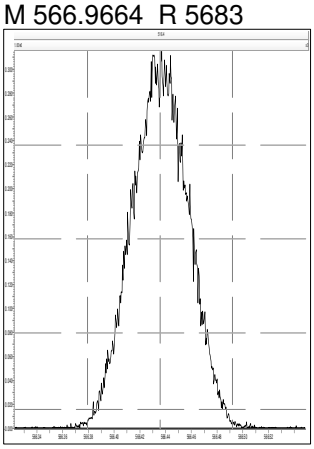
M 542.9664 R 5980



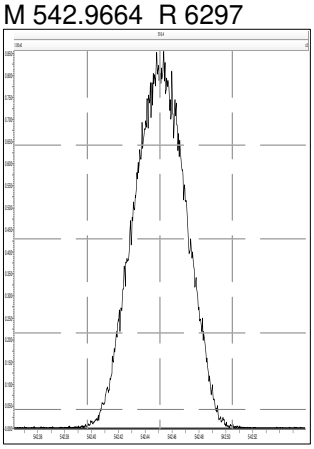
M 554.9664 R 5800



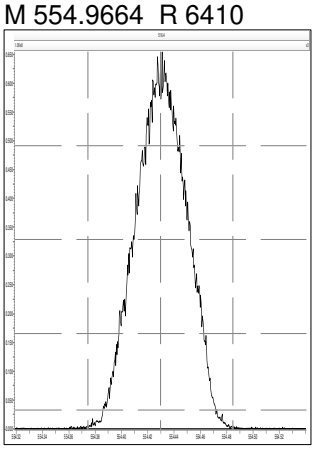
M 566.9664 R 5683



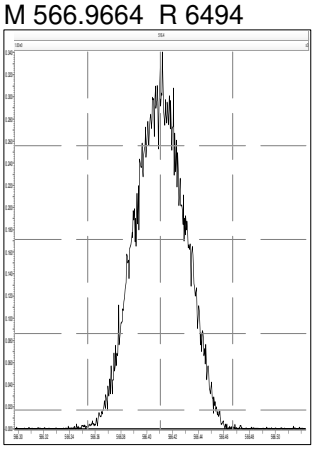
M 542.9664 R 6297



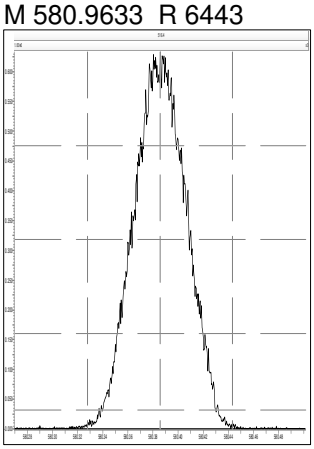
M 554.9664 R 6410



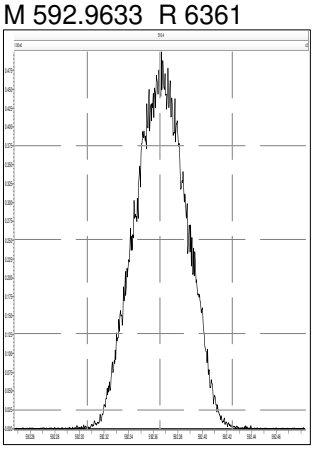
M 566.9664 R 6494



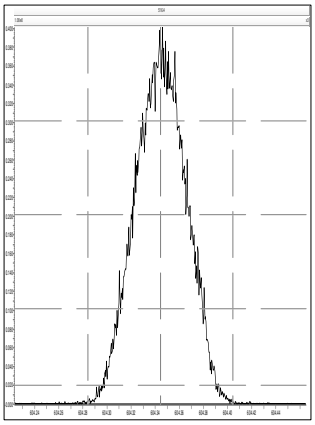
M 580.9633 R 6443



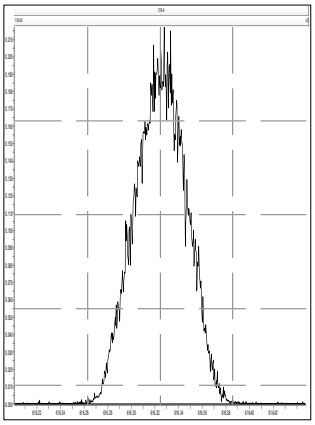
M 592.9633 R 6361



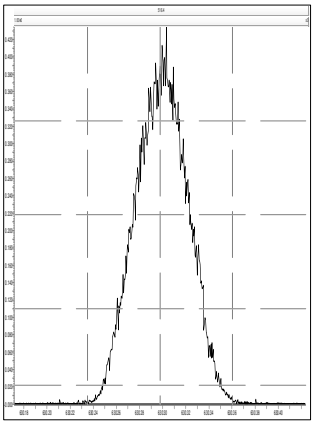
M 604.9633 R 6381



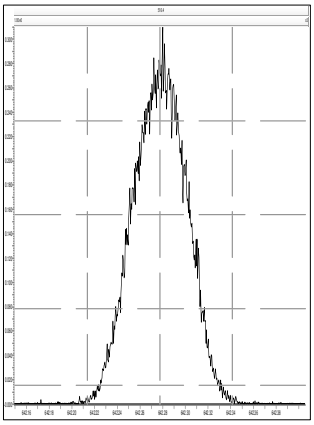
M 616.9633 R 6410



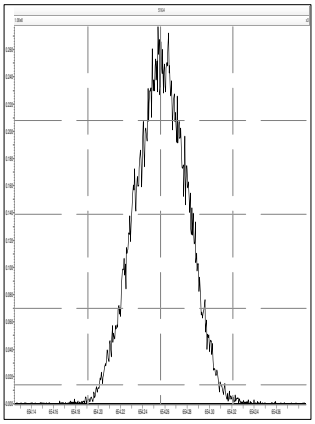
M 630.9601 R 6172



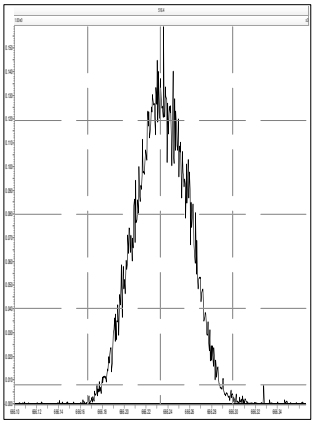
M 642.9601 R 6024



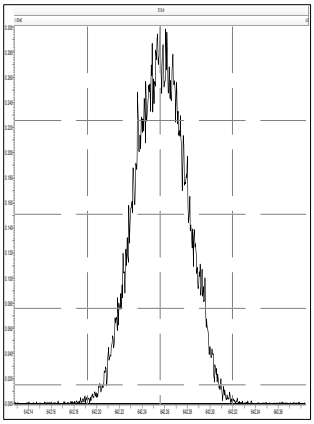
M 654.9601 R 6038



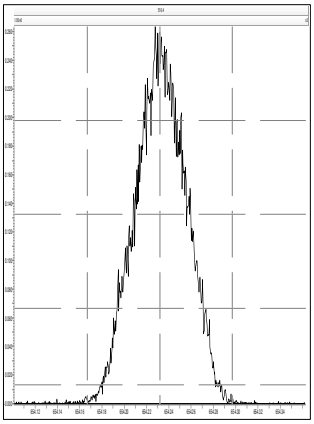
M 666.9601 R 6082



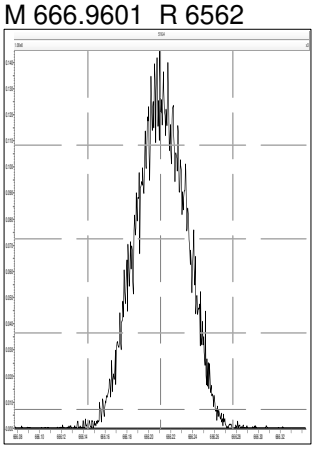
M 642.9601 R 6281



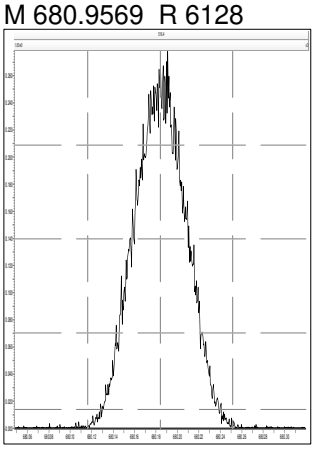
M 654.9601 R 6378



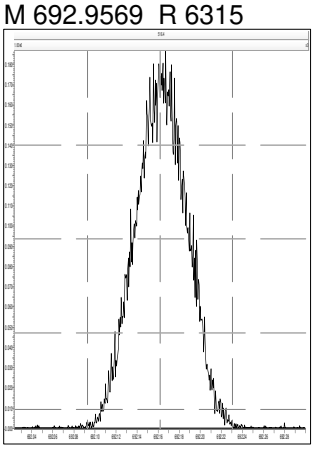
M 666.9601 R 6562



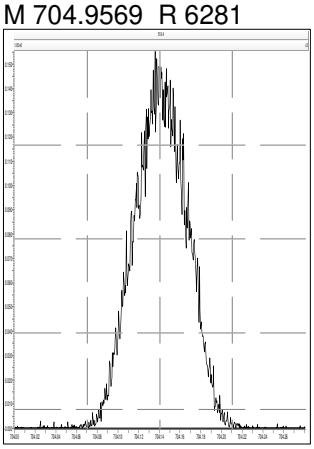
M 680.9569 R 6128



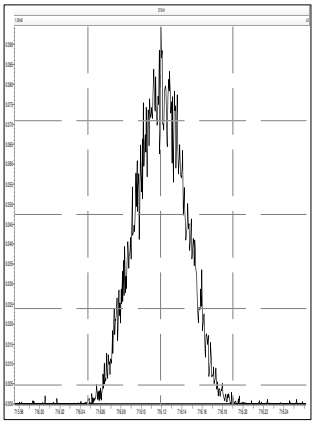
M 692.9569 R 6315



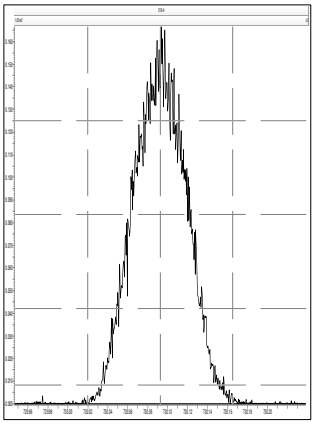
M 704.9569 R 6281



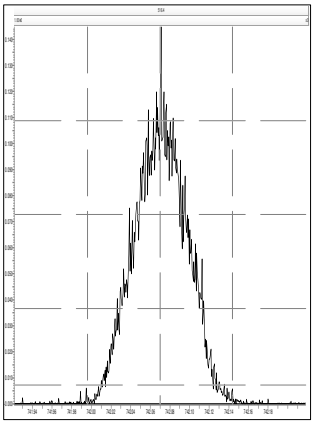
M 716.9569 R 6265



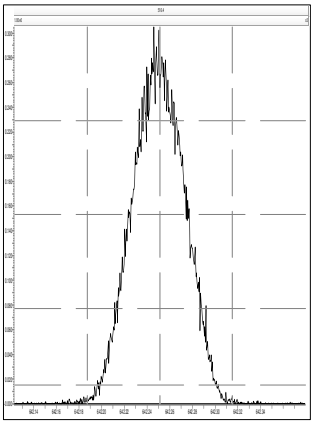
M 730.9537 R 6250



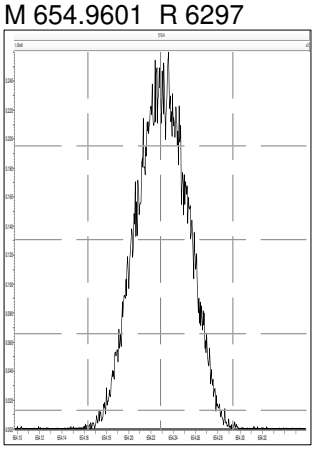
M 742.9537 R 6537



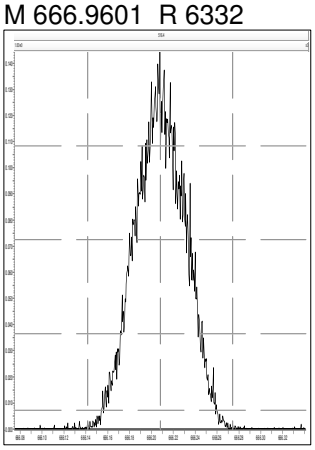
M 642.9601 R 6265



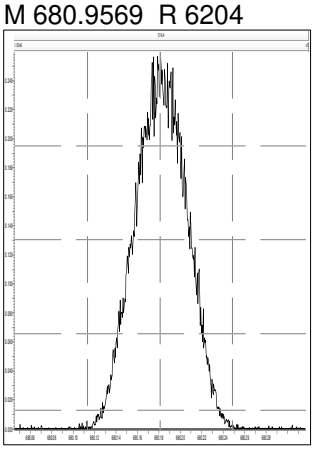
M 654.9601 R 6297



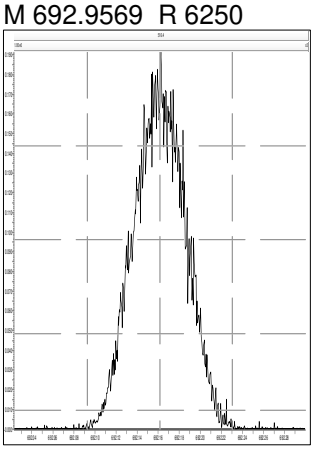
M 666.9601 R 6332



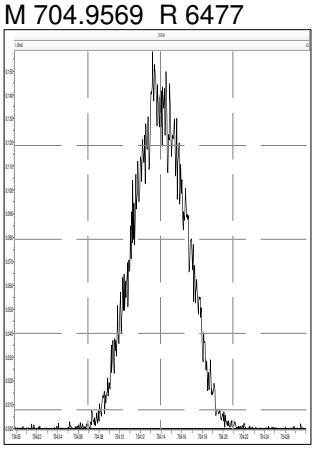
M 680.9569 R 6204



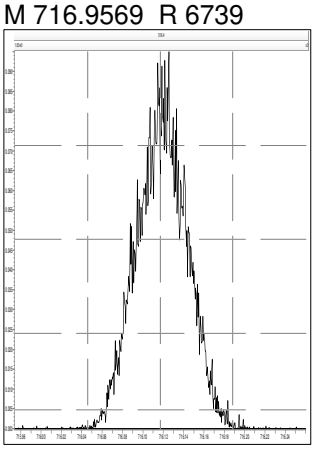
M 692.9569 R 6250



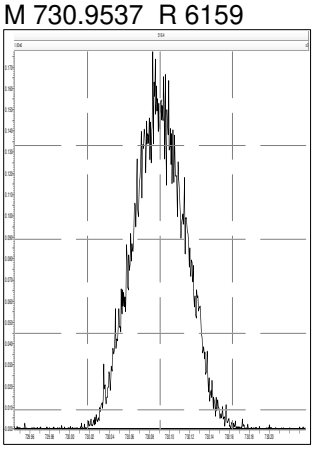
M 704.9569 R 6477



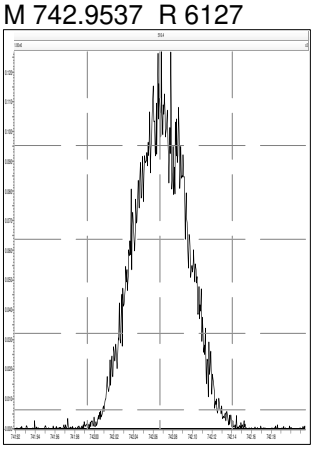
M 716.9569 R 6739



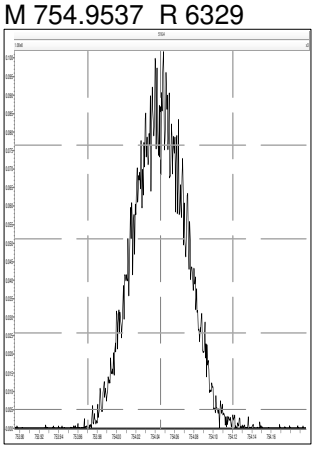
M 730.9537 R 6159



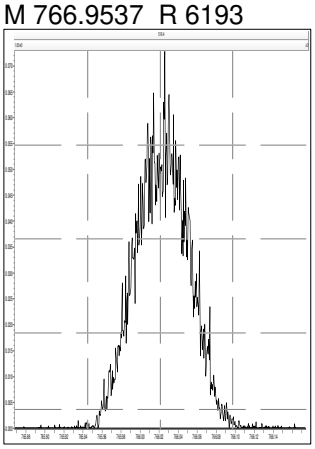
M 742.9537 R 6127



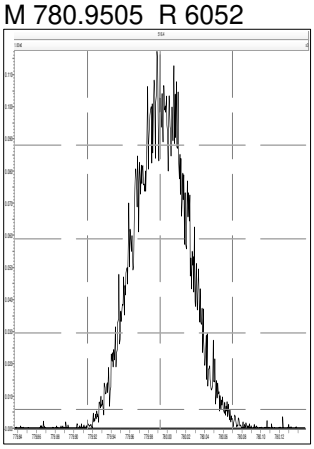
M 754.9537 R 6329



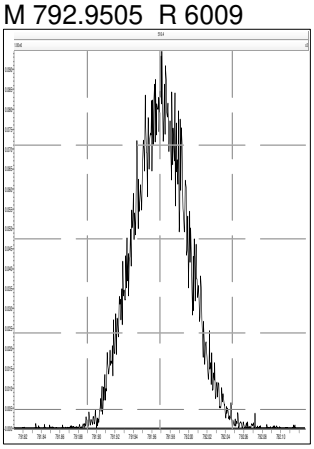
M 766.9537 R 6193



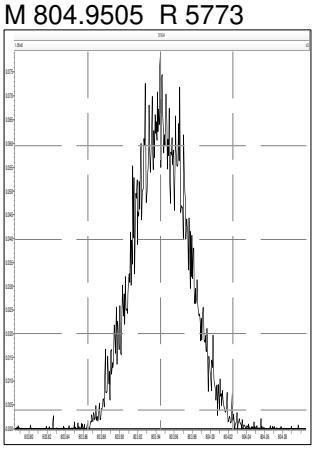
M 780.9505 R 6052



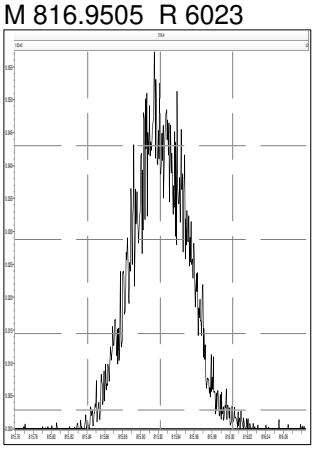
M 792.9505 R 6009



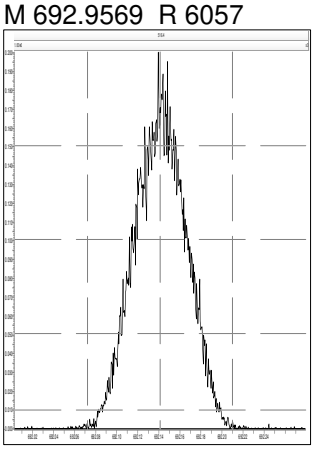
M 804.9505 R 5773



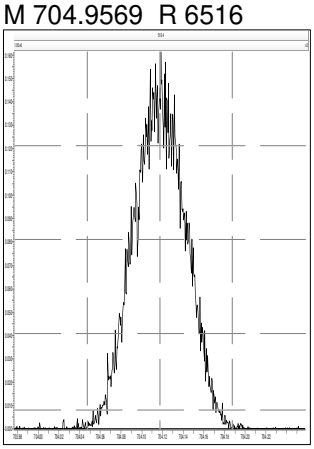
M 816.9505 R 6023



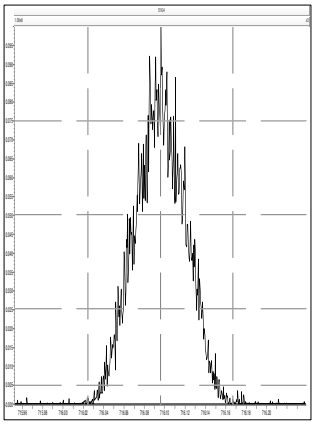
M 692.9569 R 6057



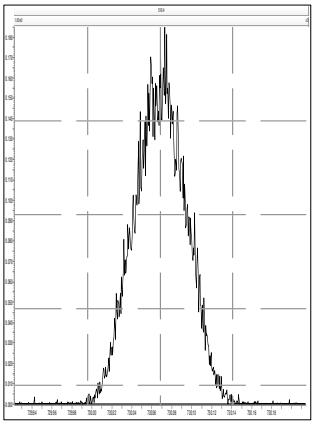
M 704.9569 R 6516



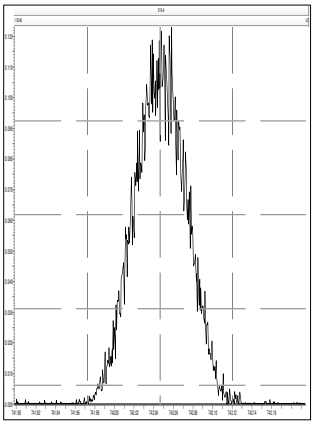
M 716.9569 R 6297



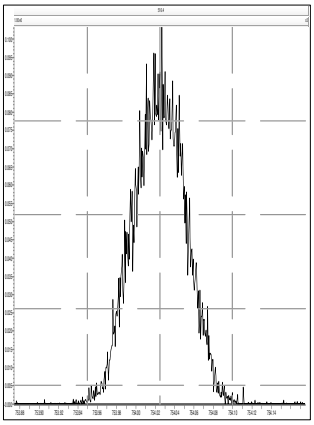
M 730.9537 R 6203



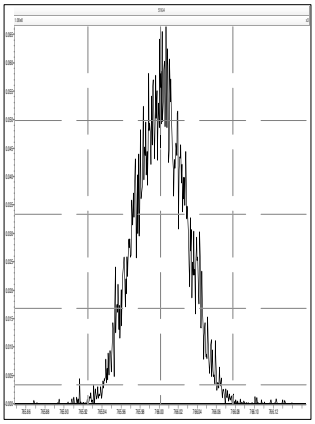
M 742.9537 R 6195



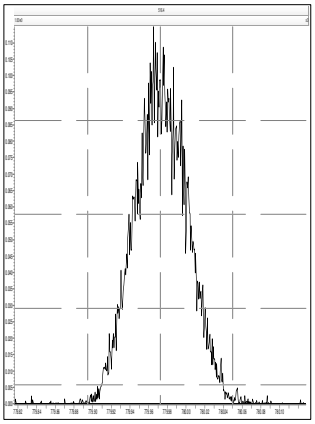
M 754.9537 R 6596



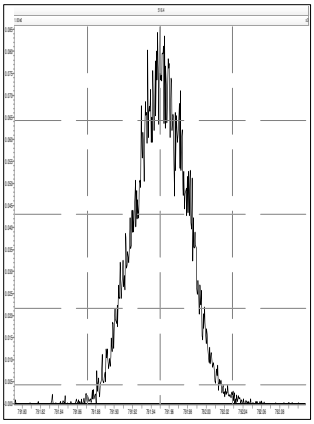
M 766.9537 R 6238



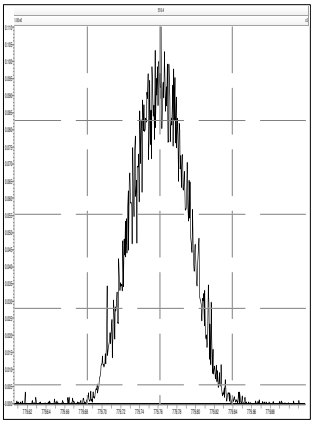
M 780.9505 R 6040



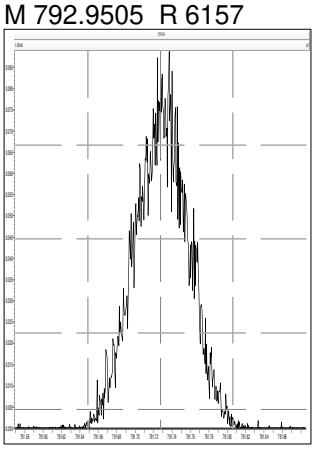
M 792.9505 R 6267



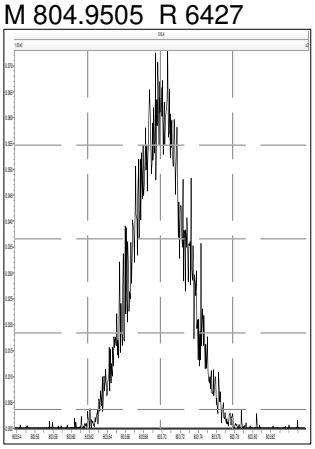
M 780.9505 R 5841



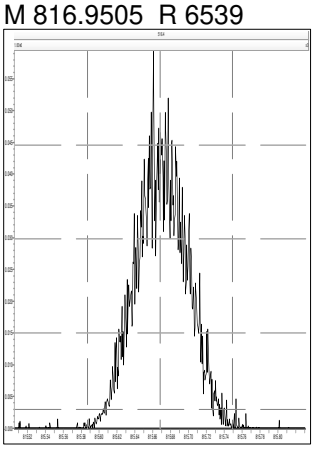
M 792.9505 R 6157



M 804.9505 R 6427



M 816.9505 R 6539



	File Name	Sample ID	File Text	MS File	Inlet File	Vial	Inject Volume
1	9-211001A01	WG3591012-2	LCS	PBDEX_1614	PBDE_DB5	Tray1:66	1.500000
2	9-211001A02	TOLUENE	INST BLK	PBDEX_1614	PBDE_DB5	Tray1:41	1.500000
3	9-211001A03	WG3591012-1	MB	PBDEX_1614	PBDE_DB5	Tray1:67	1.500000
4	9-211001A04	L2621938-1	SAMPLE	PBDEX_1614	PBDE_DB5	Tray1:68	1.500000
5	9-211001A05	L2621938-2	SAMPLE	PBDEX_1614	PBDE_DB5	Tray1:69	1.500000
6	9-211001A06	L2621938-3	SAMPLE	PBDEX_1614	PBDE_DB5	Tray1:70	1.500000
7	9-211001A07	L2622643-1	SAMPLE	PBDEX_1614	PBDE_DB5	Tray1:71	1.500000
8	9-211001A08	L2622643-2	SAMPLE	PBDEX_1614	PBDE_DB5	Tray1:72	1.500000
9	9-211001A09	L2622643-3	SAMPLE	PBDEX_1614	PBDE_DB5	Tray1:73	1.500000
10	9-211001A10	L2624344-1	SAMPLE	PBDEX_1614	PBDE_DB5	Tray1:74	1.500000
11	9-211001A11	L2624969-1	SAMPLE	PBDEX_1614	PBDE_DB5	Tray1:75	1.500000
12	9-211001A12	L2624969-2	SAMPLE	PBDEX_1614	PBDE_DB5	Tray1:76	1.500000
13	9-211001A13	L2625681-1	SAMPLE	PBDEX_1614	PBDE_DB5	Tray1:77	1.500000
14	9-211001A14	L2625681-2	SAMPLE	PBDEX_1614	PBDE_DB5	Tray1:78	1.500000
15	9-211001A15	H9-21-CCV-780	PBDEX-CS#3-002	PBDEX_1614	PBDE_DB5	Tray1:40	1.500000
16	9-211001A16	WG3614785-2	LCS	PBDEX_1614	PBDE_DB5	Tray1:51	1.500000
17	9-211001A17	WG3603564-2	LCS	PBDEX_1614	PBDE_DB5	Tray1:65	1.500000
18	9-211001A18	TOLUENE	INST BLK	PBDEX_1614	PBDE_DB5	Tray1:41	1.500000
19	9-211001A19	WG3614785-1	MB	PBDEX_1614	PBDE_DB5	Tray1:52	1.500000
20	9-211001A20	L2611778-1	SAMPLE	PBDEX_1614	PBDE_DB5	Tray1:48	1.500000
21	9-211001A21	~~L2612667-3~~	SAMPLE	PBDEX_1614	PBDE_DB5	Tray1:49	1.500000
22	9-211001A22	~~L2616736-1~~	SAMPLE	PBDEX_1614	PBDE_DB5	Tray1:50	1.500000
23	9-211001A23	L2603159-1	RE	PBDEX_1614	PBDE_DB5	Tray1:53	1.500000
24	9-211001A24	L2604181-1	RE	PBDEX_1614	PBDE_DB5	Tray1:54	1.500000
25	9-211001A25	H9-21-CCV-782	PBDEX-CS#3-002	PBDEX_1614	PBDE_DB5	Tray1:40	1.500000
26	9-211001A26	WG3603626-2	LCS	PBDEX_1614	PBDE_DB5	Tray1:55	1.500000
27	9-211001A27	WG3608339-2	LCS	PBDEX_1614	PBDE_DB5	Tray1:58	1.500000
28	9-211001A28	TOLUENE	INST BLK	PBDEX_1614	PBDE_DB5	Tray1:41	1.500000
29	9-211001A29	WG3603626-1	MB	PBDEX_1614	PBDE_DB5	Tray1:56	1.500000
30	9-211001A30	WG3608339-1	MB	PBDEX_1614	PBDE_DB5	Tray1:59	1.500000
31	9-211001A31	WG3621988-1	MB	PBDEX_1614	PBDE_DB5	Tray1:27	1.500000
32	9-211001A32	L2627687-2	SAMPLE	PBDEX_1614	PBDE_DB5	Tray1:57	1.500000
33	9-211001A33	L2631875-3	SAMPLE	PBDEX_1614	PBDE_DB5	Tray1:60	1.500000
34	9-211001A34	L2631875-5	SAMPLE	PBDEX_1614	PBDE_DB5	Tray1:61	1.500000
35	9-211001A35	L2631875-6	SAMPLE	PBDEX_1614	PBDE_DB5	Tray1:62	1.500000
36	9-211001A36	L2641954-1	SAMPLE	PBDEX_1614	PBDE_DB5	Tray1:28	1.500000
37	9-211001A37	L2641954-2	SAMPLE	PBDEX_1614	PBDE_DB5	Tray1:29	1.500000
38	9-211001A38	L2641954-3	SAMPLE	PBDEX_1614	PBDE_DB5	Tray1:30	1.500000
39	9-211001A39	L2641954-4	SAMPLE	PBDEX_1614	PBDE_DB5	Tray1:31	1.500000
40	9-211001A40	H9-21-CCV-783	PBDEX-CS#3-002	PBDEX_1614	PBDE_DB5	Tray1:40	1.500000
41	---	---	---	---	---	---	0.000000
42	---	Column DB5	Serial No US0702425H	---	---	---	0.000000
43	---	15X0.25X0.1		---	---	---	0.000000
44	---	Detector	380	---	---	---	0.000000
45	---	OP	ES	---	---	---	0.000000

VPJ EA Oct 1

MR slightly low

Win ✓
Chro ✓
TOL ✓
BS ✓

A2 Rec A21 nothing
A23 A24 no PBDE-209

A3 CCV A40 PBDE-209L, DBOPEL low

LCS A26 BDE-79 low
140-128 high

A27 140-128 high

A38,39 209 DBOPE breakdown

A30 range A35 range

A32 range
A33 high
A34 high range

A1 A7 BDE-30
A11 "

	File Name	Sample ID	File Text	Sample Type	Na Conc A	Na Conc B	Na Conc C	Na Conc D	Na Conc E	Na Conc F	Na Conc G	Na Conc H	ES Conc 1	ES Conc 2	ES Conc 3	ES Conc 4	CS Conc	IS Conc 1	IS Conc 2	Sample Size
1	9-210930B23	H9-21-CCV-779	PBDEX-CS#3-002	Analyte	20	30	40	50	60	80	100	200	50	100	250	500	50	50	250	0.000
2	9-211001A01	WG3591012-2	LCS	Analyte	400	600	800	1000	1200	1600	2000	4000	1000	2000	5000	10000	2000	1000	5000	0.000
3	9-211001A03	WG3591012-1	MB	Analyte	---	---	---	---	---	---	---	---	1000	2000	5000	10000	2000	1000	5000	0.000
4	9-211001A04	L2621938-1	SAMPLE	Analyte	---	---	---	---	---	---	---	---	1000	2000	5000	10000	2000	1000	5000	0.000
5	9-211001A05	L2621938-2	SAMPLE	Analyte	---	---	---	---	---	---	---	---	1000	2000	5000	10000	2000	1000	5000	0.000
6	9-211001A06	L2621938-3	SAMPLE	Analyte	---	---	---	---	---	---	---	---	1000	2000	5000	10000	2000	1000	5000	0.000
7	9-211001A07	L2622643-1	SAMPLE	Analyte	---	---	---	---	---	---	---	---	1000	2000	5000	10000	2000	1000	5000	0.000
8	9-211001A08	L2622643-2	SAMPLE	Analyte	---	---	---	---	---	---	---	---	1000	2000	5000	10000	2000	1000	5000	0.000
9	9-211001A09	L2622643-3	SAMPLE	Analyte	---	---	---	---	---	---	---	---	1000	2000	5000	10000	2000	1000	5000	0.000
10	9-211001A10	L2624344-1	SAMPLE	Analyte	---	---	---	---	---	---	---	---	1000	2000	5000	10000	2000	1000	5000	0.000
11	9-211001A11	L2624969-1	SAMPLE	Analyte	---	---	---	---	---	---	---	---	1000	2000	5000	10000	2000	1000	5000	0.000
12	9-211001A12	L2624969-2	SAMPLE	Analyte	---	---	---	---	---	---	---	---	1000	2000	5000	10000	2000	1000	5000	0.000
13	9-211001A13	L2625681-1	SAMPLE	Analyte	---	---	---	---	---	---	---	---	1000	2000	5000	10000	2000	1000	5000	0.000
14	9-211001A14	L2625681-2	SAMPLE	Analyte	---	---	---	---	---	---	---	---	1000	2000	5000	10000	2000	1000	5000	0.000
15	9-211001A15	H9-21-CCV-780	PBDEX-CS#3-002	Analyte	20	30	40	50	60	80	100	200	50	100	250	500	50	50	250	0.000
16	9-211001A16	WG3614785-2	LCS	Analyte	400	600	800	1000	1200	1600	2000	4000	1000	2000	5000	10000	2000	1000	5000	0.000
17	9-211001A17	WG3603564-2	LCS	Analyte	800	1200	1600	2000	2400	3200	4000	8000	2000	4000	10000	20000	4000	2000	10000	1.000
18	9-211001A19	WG3614785-1	MB	Analyte	---	---	---	---	---	---	---	---	1000	2000	5000	10000	2000	1000	5000	0.000
19	9-211001A20	L2611778-1	SAMPLE	Analyte	---	---	---	---	---	---	---	---	1000	2000	5000	10000	2000	1000	5000	0.000
20	9-211001A21	L2612667-3	SAMPLE	Analyte	---	---	---	---	---	---	---	---	1000	2000	5000	10000	2000	1000	5000	0.000
21	9-211001A22	L2616736-1	SAMPLE	Analyte	---	---	---	---	---	---	---	---	1000	2000	5000	10000	2000	1000	5000	0.000
22	9-211001A23	L2603159-1	RE	Analyte	---	---	---	---	---	---	---	---	1000	2000	5000	10000	2000	1000	5000	0.000
23	9-211001A24	L2604181-1	RE	Analyte	---	---	---	---	---	---	---	---	1000	2000	5000	10000	2000	1000	5000	0.000
24	9-211001A25	H9-21-CCV-782	PBDEX-CS#3-002	Analyte	20	30	40	50	60	80	100	200	50	100	250	500	50	50	250	0.000
25	9-211001A26	WG3603626-2	LCS	Analyte	400	600	800	1000	1200	1600	2000	4000	1000	2000	5000	10000	2000	1000	5000	0.000
26	9-211001A27	WG3608339-2	LCS	Analyte	400	600	800	1000	1200	1600	2000	4000	1000	2000	5000	10000	2000	1000	5000	0.000
27	9-211001A29	WG3603626-1	MB	Analyte	---	---	---	---	---	---	---	---	1000	2000	5000	10000	2000	1000	5000	0.000
28	9-211001A30	WG3608339-1	MB	Analyte	---	---	---	---	---	---	---	---	1000	2000	5000	10000	2000	1000	5000	0.000
29	9-211001A31	WG3621988-1	MB	Analyte	---	---	---	---	---	---	---	---	2000	4000	10000	20000	4000	2000	10000	0.000
30	9-211001A32	L2627687-2	SAMPLE	Analyte	---	---	---	---	---	---	---	---	1000	2000	5000	10000	2000	1000	5000	0.000
31	9-211001A33	L2631875-3	SAMPLE	Analyte	---	---	---	---	---	---	---	---	1000	2000	5000	10000	2000	1000	5000	0.000
32	9-211001A34	L2631875-5	SAMPLE	Analyte	---	---	---	---	---	---	---	---	1000	2000	5000	10000	2000	1000	5000	0.000
33	9-211001A35	L2631875-6	SAMPLE	Analyte	---	---	---	---	---	---	---	---	1000	2000	5000	10000	2000	1000	5000	0.000
34	9-211001A36	L2641954-1	SAMPLE	Analyte	---	---	---	---	---	---	---	---	2000	4000	10000	20000	4000	2000	10000	0.000
35	9-211001A37	L2641954-2	SAMPLE	Analyte	---	---	---	---	---	---	---	---	2000	4000	10000	20000	4000	2000	10000	0.000
36	9-211001A38	L2641954-3	SAMPLE	Analyte	---	---	---	---	---	---	---	---	2000	4000	10000	20000	4000	2000	10000	0.000
37	9-211001A39	L2641954-4	SAMPLE	Analyte	---	---	---	---	---	---	---	---	2000	4000	10000	20000	4000	2000	10000	0.000
38	9-211001A40	H9-21-CCV-783	PBDEX-CS#3-002	Analyte	20	30	40	50	60	80	100	200	50	100	250	500	50	50	250	0.000

Quantify Sample Summary Report **MassLynx MassLynx V4.1 SCN 901**

Dataset: I:\Organics Instrument\HIGHRES GCMS Completed Results Files\HR-9\2110\9-211001A2-LCS.qld

Last Altered: Thursday, November 18, 2021 11:17:55 Eastern Standard Time
Printed: Thursday, November 18, 2021 11:20:20 Eastern Standard Time

Method: C:\MassLynx\PBDE.PRO\Methods\PBDEX-DB5-1-210930B.mdb 01 Oct 2021 09:08:23
Calibration: C:\MassLynx\PBDE.PRO\CurveDB\9-210930B-PBDEX-ICAL.cdb 01 Oct 2021 09:18:22

Name: 9-211001A17, Date: 01-Oct-2021, Time: 23:44:40, ID: WG3603564-2, Description: LCS, Vial: Tray1:65

	Target Analyte	#Hom	Total Area	Ion1 Area	Ion2 Area	Ra	Ra Fail=YES	RT	RRT	RT LCL	RT UCL	Conc.	%Rec	Mod.Comment	Noise 1	Noise 2
1	*BDE-1		7710.994	6992	719	9.73	YES	4.84	0.96	4.81	4.88	684.91610	85.6		42199	43008
2	BDE-2		22829.526	14440	8390	1.72	YES	4.95	0.98	4.92	4.98	1335.5051	166.9		42199	43008
3	BDE-3		32041.194	14547	17494	0.83	YES	5.05	1.00	5.02	5.09	1633.3756	204.2		42199	43008
4	*BDE-10		9002.703	3258	5745	0.57	NO	6.27	0.89	6.23	6.30	87.609056	11.0		1219	1222
5	BDE-7		26045.704	8933	17112	0.52	NO	6.64	0.94	6.61	6.67	235.35506	29.4		1219	1222
6	BDE-8/BDE-11		231196.672	77600	153597	0.51	NO	6.81	0.96	6.77	6.84	1480.5116	92.5		1219	1222
7	BDE-12/BDE-13		521396.641	268885	252511	1.06	YES	6.91	0.98	6.88	6.94	2934.1416	183.4		1219	1222
8	BDE-15		183710.277	61610	122101	0.50	NO	7.07	1.00	7.04	7.11	868.82694	108.6		1219	1222
9	*BDE-30		33549.124	17288	16261	1.06	NO	7.77	0.90	7.74	7.80	290.50197	36.3		1907	2018
10	BDE-32		129665.383	66491	63175	1.05	NO	8.22	0.95	8.18	8.25	804.47009	100.6		1907	2018
11	BDE-17/BDE-25		209582.149	105611	103971	1.02	NO	8.38	0.97	8.35	8.42	1630.1772	101.9		1907	2018
12	BDE-28/BDE-33		218349.649	110364	107986	1.02	NO	8.62	1.00	8.58	8.65	1649.5092	103.1		1907	2018
13	BDE-35		171166.625	86557	84610	1.02	NO	8.77	1.02	8.74	8.80	869.39325	108.7		1907	2018
14	BDE-37		176354.578	89412	86943	1.03	NO	8.96	1.04	8.93	8.99	896.73717	112.1		1907	2018
15	*PBEB		80206.766	40899	39308	1.04	NO	8.97	0.90	8.94	9.00	760.52738	95.1		1235	1065
16	*PBB-52		82553.496	49716	32837	1.51	NO	9.07	0.91	9.04	9.10	838.61575	104.8		1810	746
17	*HBB		71272.426	20088	51185	0.39	NO	9.97	1.00	9.93	10.00	802.95555	100.4		857	980
18	*BDE-75		113384.535	46140	67244	0.69	NO	10.02	0.95	9.98	10.05	821.30641	102.7		1739	3309
19	BDE-51		125429.899	51436	73994	0.70	NO	10.08	0.96	10.04	10.11	821.91658	102.7		1739	3309
20	BDE-49		85764.933	35348	50417	0.70	NO	10.18	0.97	10.14	10.21	818.56515	102.3		1739	3309
21	BDE-71		84582.043	34957	49625	0.70	NO	10.25	0.98	10.22	10.29	816.47807	102.1		1739	3309
22	BDE-47		126093.688	50968	75126	0.68	NO	10.51	1.00	10.48	10.55	847.34887	105.9		1739	3309
23	BDE-79		167012.157	68848	98164	0.70	NO	10.69	1.02	10.65	10.72	893.23572	111.7		1739	3309
24	BDE-66		85654.918	35390	50265	0.70	NO	10.80	1.03	10.77	10.83	850.00537	106.3		1739	3309
25	BDE-77		155164.805	61853	93311	0.66	NO	11.28	1.00	11.25	11.32	822.70607	102.8		1739	3309
26	*PBB-101		177178.375	88356	88822	0.99	NO	11.42	1.01	11.39	11.45	1406.7862	87.9		1149	833
27	*BDE-100		201123.625	103572	97551	1.06	NO	12.17	1.00	12.13	12.20	1238.8953	103.2		160	1825
28	BDE-119/BDE-120		199190.500	100692	98499	1.02	NO	12.34	1.02	12.31	12.37	2456.4455	102.4		160	1825
29	BDE-99		138524.117	70303	68221	1.03	NO	12.66	1.00	12.63	12.70	1239.4072	103.3		160	1825
30	BDE-116		32023.153	16374	15649	1.05	NO	12.82	1.01	12.79	12.86	631.37258	52.6		160	1825
31	BDE-83		66277.508	33551	32726	1.03	NO	12.96	1.02	12.93	12.99	1067.4030	89.0		160	1825
32	BDE-118		91868.379	46733	45135	1.04	NO	13.07	1.03	13.04	13.11	1266.6824	105.6		160	1825
33	BDE-85		104064.371	52711	51353	1.03	NO	13.56	0.99	13.52	13.59	1250.4800	104.2		160	1825
34	BDE-126		171293.875	86900	84394	1.03	NO	13.73	1.00	13.70	13.76	1262.5925	105.2		160	1825

Quantify Sample Summary Report **MassLynx MassLynx V4.1 SCN 901**

Dataset: I:\Organics Instrument\HIGHRES GCMS Completed Results Files\HR-9\2110\9-211001A2-LCS.qld

Last Altered: Thursday, November 18, 2021 11:17:55 Eastern Standard Time
Printed: Thursday, November 18, 2021 11:20:20 Eastern Standard Time

Name: 9-211001A17, Date: 01-Oct-2021, Time: 23:44:40, ID: WG3603564-2, Description: LCS, Vial: Tray1:65

	Target Analyte	#Hom	Total Area	Ion1 Area	Ion2 Area	Ra	Ra Fail=YES	RT	RRT	RT LCL	RT UCL	Conc.	%Rec	Mod.Comment	Noise 1	Noise 2
35	BDE-105		89119.653	44422	44698	0.99	NO	13.89	1.01	13.86	13.93	1251.3261	104.3		160	1825
36	*PBB-153		152074.414	87948	64126	1.37	NO	14.07	1.00	14.03	14.10	1699.1944	106.2		936	1787
37	*BDE-155		185693.828	106983	78711	1.36	NO	13.73	0.97	13.70	13.76	1650.2564	103.1		1666	1141
38	BDE-154		158381.016	91421	66960	1.37	NO	14.10	1.00	14.07	14.14	1578.1523	98.6		1666	1141
39	*BDE-153		91365.652	52239	39126	1.34	NO	14.84	1.00	14.81	14.88	1595.1820	99.7		3105	2283
40	BDE-140		113221.145	65591	47630	1.38	NO	15.30	1.01	15.26	15.33	1568.2806	98.0		3105	2283
41	BDE-138/BDE-166		116565.449	68240	48325	1.41	NO	15.80	1.06	15.77	15.83	2790.6043	87.2		3105	2283
42	BDE-156		45012.759	27020	17993	1.50	NO	16.17	1.09	16.14	16.21	1454.2309	90.9		3105	2283
43	BDE-128		49163.539	28153	21010	1.34	NO	16.79	0.99	16.76	16.83	1413.8678	88.4		3105	2283
44	*BDE-184		95649.832	49240	46410	1.06	NO	16.61	0.98	16.57	16.64	2234.4941	111.7		1241	1180
45	BDE-183		57006.725	28687	28319	1.01	NO	16.98	1.00	16.95	17.02	1972.5593	98.6		1241	1180
46	BDE-191		36430.480	18282	18149	1.01	NO	17.54	1.03	17.51	17.58	1861.7894	93.1		1241	1180
47	BDE-181		27107.010	13533	13574	1.00	NO	18.08	1.01	18.05	18.11	1386.2096	69.3		1241	1180
48	BDE-190		16836.620	8476	8360	1.01	NO	18.24	1.02	18.21	18.28	1247.8331	62.4		1241	1180
49	*PBB-180		46323.725	22699	23625	0.96	NO	17.09	0.96	17.05	17.12	1583.0554	98.9		1950	1384
50	*BDE-197		34323.934	15307	19017	0.80	NO	19.44	1.00	19.41	19.48	1965.2833	98.3		1173	1238
51	BDE-203		18029.516	8211	9819	0.84	NO	19.72	1.01	19.69	19.75	1432.5294	71.6		1173	1238
52	BDE-196		25301.515	11378	13924	0.82	NO	19.85	1.02	19.81	19.88	1795.6209	89.8		1173	1238
53	*PBB-194		14768.287	8426	6342	1.33	NO	19.92	1.02	19.89	19.96	1350.8662	84.4		877	774
54	*BDE-208		74735.344	38269	36466	1.05	NO	21.15	0.99	21.12	21.19	4541.5911	113.5		1697	2031
55	BDE-207		77096.246	38250	38846	0.98	NO	21.28	1.00	21.25	21.32	3951.3476	98.8		1697	2031
56	BDE-206		63313.440	31990	31324	1.02	NO	21.55	1.01	21.52	21.59	4013.5614	100.3		1697	2031
57	*PBB-206		25301.471	12556	12745	0.99	NO	21.00	0.99	20.97	21.03	4276.9935	106.9		1826	3283
58	*PBB-209		21367.266	11275	10092	1.12	NO	21.91	1.03	21.87	21.94	3809.4844	95.2		1428	1310
59	*BDE-209		13359.131	7601	5758	1.32	NO	23.23	1.00	23.20	23.27	4024.4312	100.6		922	657
60	*DBDPE		21701.135	11124	10577	1.05	NO	24.65	1.00	24.62	24.68	8437.1770	105.5		808	978
61	13C12-BDE-3		43933.862	21569	22365	0.96	NO	5.04	0.47	5.01	5.08	71.654091	3.6		2236	4903
62	13C12-BDE-15		436142.907	148345	287798	0.52	NO	7.07	0.66	7.03	7.10	1019.7565	51.0		4887	8337
63	13C12-BDE-28		334660.360	171348	163313	1.05	NO	8.62	0.81	8.58	8.65	1337.9352	66.9		2369	2822
64	13C6-HBB		165716.566	119193	46523	2.56	NO	9.95	0.93	9.92	9.99	1203.0553	60.2		1363	1084
65	13C12-BDE-47		303987.242	186022	117965	1.58	NO	10.51	0.98	10.48	10.55	1380.0540	69.0		2427	1730
66	13C12-BDE-77		402568.297	246455	156113	1.58	NO	11.27	1.06	11.24	11.30	1552.4599	77.6		2427	1730
67	13C12-BDE-100		375858.219	192195	183663	1.05	NO	12.15	0.80	12.12	12.19	1843.8328	92.2		1414	2188
68	13C12-BDE-99		238796.899	121830	116967	1.04	NO	12.66	0.84	12.63	12.70	1901.8799	95.1		1414	2188
69	13C12-BDE-126		293365.204	150882	142483	1.06	NO	13.72	0.91	13.69	13.75	1861.9142	93.1		1414	2188
70	13C12-BDE-154		210343.711	120212	90131	1.33	NO	14.10	0.93	14.07	14.14	1671.5719	83.6		2506	1276
71	13C12-BDE-153		108625.090	63006	45620	1.38	NO	14.84	0.98	14.81	14.88	1573.3349	78.7		2155	1774

Quantify Sample Summary Report **MassLynx MassLynx V4.1 SCN 901**

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Name: 9-211001A17, Date: 01-Oct-2021, Time: 23:44:40, ID: WG3603564-2, Description: LCS, Vial: Tray1:65

	Target Analyte	#Hom	Total Area	Ion1 Area	Ion2 Area	Ra	Ra Fail=YES	RT	RRT	RT LCL	RT UCL	Conc.	%Rec	Mod.Comment	Noise 1	Noise 2
72	13C12-BDE-183		69399.461	35395	34004	1.04	NO	16.97	0.95	16.94	17.00	1622.6766	81.1		1556	1178
73	13C12-BDE-197		85694.340	38511	47183	0.82	NO	19.44	1.09	19.41	19.48	2350.5556	58.8		1325	1176
74	13C12-BDE-207		195290.086	98398	96892	1.02	NO	21.27	0.99	21.24	21.31	7559.0108	75.6		4407	2094
75	13C12-BDE-209		33772.857	19301	14472	1.33	NO	23.23	1.08	23.19	23.26	3570.3034	35.7		1318	1390
76	13C14-DBDPE		52775.750	27164	25611	1.06	NO	24.64	1.14	24.61	24.67	8753.8604	43.8		1173	2277
77	13C12-BDE-138 (CL)		112802.891	65011	47792	1.36	NO	15.79	1.04	15.76	15.82	1811.1102	45.3		2155	1774
78	13C12-BDE-79 (IS)		521332.984	319638	201695	1.58	NO	10.67	0.71	10.64	10.71	5.5969130	0.3		2427	1730
79	13C12-BDE-139 (IS)		158979.359	92423	66556	1.39	NO	15.11	0.00	15.08	15.14	4.8294287	0.2		2155	1774
80	13C12-BDE-180 (IS)		47216.899	23834	23383	1.02	NO	17.83	1.18	17.80	17.87	3.4260285	0.2		1556	1178
81	13C12-BDE-206 (IS)		205146.922	103510	101637	1.02	NO	21.54	1.43	21.51	21.58	8.3824299	0.1		4407	2094
82	Total MoF1	3		35979								3653.7967			42199	
83	Total DiF2	5		420286								5606.4443			1219	
84	Total TriF3	6		475723								6140.7889			1907	
85	Total PBEBF3	1		40899								760.52738			1235	
86	Total TePBBF3	1		49716								838.61575			1810	
87	Total HBBF4	1		20088								802.95555			857	
88	Total TetraF4	8		384941								6691.5622			1739	
89	Total PePBBF4	1		88356								1406.7862			1149	
90	Total PentaF5	9		555258								11664.605			160	
91	Total PBB-153	1		87948								1699.1944			936	
92	Total HexaF5	2		198404								3228.4088			1666	
93	Total HexaF6	5		241244								8822.1655			3105	
94	Total HeptaF6	5		118218								8702.8855			1241	
95	Total PBB-180	1		22699								1583.0554			1950	
96	Total OctaF7	3		34895								5193.4335			1173	
97	Total PBB-194	1		8426								1350.8662			877	
98	Total NonaF8	3		108509								12506.500			1697	
99	Total PBB-206	1		12556								4276.9935			1826	
100	Total PBB-209	1		11275								3809.4844			1428	
101	Total DecaF9	1		7601								4024.4312			922	
102	Total DBDPEF10															
103	Total 13CMoF1	1		21569								71.654091			2236	
104	Total 13CDiF2	1		148345								1019.7565			4887	
105	Total 13CTriF3	1		171348								1337.9352			2369	
106	Total 13CHBBF4	1		119193								1203.0553			1363	
107	Total 13CTetraF4	3		752115								2938.1109			2427	
108	Total 13CPentaF5	3		464907								5607.6270			1414	

Quantify Sample Summary Report **MassLynx MassLynx V4.1 SCN 901**

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Name: 9-211001A17, Date: 01-Oct-2021, Time: 23:44:40, ID: WG3603564-2, Description: LCS, Vial: Tray1:65

	Target Analyte	#Hom	Total Area	Ion1 Area	Ion2 Area	Ra	Ra Fail=YES	RT	RRT	RT LCL	RT UCL	Conc.	%Rec	Mod.Comment	Noise 1	Noise 2
109	Total 13CHexaF5	1		120212								1671.5719			2506	
110	Total 13CHexaF6	3		220439								3389.2745			2155	
111	Total 13CHeptaF6	2		59229								1626.1026			1556	
112	Total 13COctaF7	1		38511								2350.5556			1325	
113	Total 13CNonaF8	2		201907								7567.3932			4407	
114	Total 13CDecaF9	1		19301								3570.3034			1318	
115	Total 13CDBDPEF10															
116	Lockmass F1			0											241914	
117	Lockmass F2			0											510436	
118	Lockmass F3			0											264524	
119	Lockmass F4			0											155640	
120	Lockmass F5			0											117771	
121	Lockmass F6			0											62921	
122	Lockmass F7			0											45535	
123	Lockmass F8			0											45934	
124	Lockmass F9			0											68920	
125	Lockmass F10															

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Name: 9-211001A15, Date: 01-Oct-2021, Time: 22:16:06, ID: H9-21-CCV-780, Description: PBDEX-CS#3-002, Vial: Tray1:40

	Target Analyte	#Hom	Total Area	Ion1 Area	Ion2 Area	Ra	Ra Fail=YES	RT	RRT	RT LCL	RT UCL	Conc.	%Rec	Mod.Comment	Noise 1	Noise 2
1	*BDE-1		2354217.5...	1200781	1153437	1.04	NO	4.84	0.96	4.81	4.88	19.714473	98.6		41168	41692
2	BDE-2		3720221.1...	1882810	1837411	1.02	NO	4.95	0.98	4.92	4.98	20.517714	102.6		41168	41692
3	BDE-3		4402267.7...	2237021	2165247	1.03	NO	5.05	1.00	5.02	5.09	21.157551	105.8		41168	41692
4	*BDE-10		1580467.8...	537886	1042582	0.52	NO	6.27	0.89	6.23	6.30	20.031676	100.2		3234	2946
5	BDE-7		1723847.7...	593479	1130369	0.52	NO	6.64	0.94	6.61	6.67	20.288125	101.4		3234	2946
6	BDE-8/BDE-11		4987990.2...	1693503	3294487	0.51	NO	6.81	0.96	6.77	6.84	41.601731	104.0		3234	2946
7	BDE-12/BDE-13		5802474.2...	1983504	3818970	0.52	NO	6.93	0.98	6.89	6.96	42.528651	106.3		3234	2946
8	BDE-15		3392470.2...	1152365	2240106	0.51	NO	7.07	1.00	7.04	7.11	20.896398	104.5		3234	2946
9	*BDE-30		1454653.5...	737310	717344	1.03	NO	7.77	0.90	7.74	7.80	21.115834	105.6		3497	3480
10	BDE-32		2014740.2...	1024935	989805	1.04	NO	8.22	0.95	8.18	8.25	20.954905	104.8		3497	3480
11	BDE-17/BDE-25		3188169.6...	1619166	1569003	1.03	NO	8.38	0.97	8.35	8.42	41.572173	103.9		3497	3480
12	BDE-28/BDE-33		3306310.7...	1675192	1631119	1.03	NO	8.62	1.00	8.58	8.65	41.872288	104.7		3497	3480
13	BDE-35		2563204.8...	1299831	1263374	1.03	NO	8.77	1.02	8.74	8.80	21.825353	109.1		3497	3480
14	BDE-37		2592195.7...	1318723	1273473	1.04	NO	8.96	1.04	8.93	8.99	22.096679	110.5		3497	3480
15	*PBEB		1307878.8...	660975	646904	1.02	NO	8.97	0.90	8.94	9.00	20.720598	103.6		1375	1108
16	*PBB-52		1250791.9...	754627	496165	1.52	NO	9.07	0.91	9.04	9.10	21.229685	106.1		5380	1356
17	*HBB		1068545.1...	308773	759772	0.41	NO	9.97	1.00	9.93	10.00	20.113782	100.6		1283	1981
18	*BDE-75		1624612.3...	662433	962180	0.69	NO	10.02	0.95	9.98	10.05	21.063861	105.3		2442	3191
19	BDE-51		1777664.8...	725598	1052066	0.69	NO	10.09	0.96	10.06	10.12	20.850352	104.3		2442	3191
20	BDE-49		1218911.0...	490470	728441	0.67	NO	10.18	0.97	10.14	10.21	20.823435	104.1		2442	3191
21	BDE-71		1262849.1...	514775	748074	0.69	NO	10.25	0.98	10.22	10.29	21.819996	109.1		2442	3191
22	BDE-47		1804031.5...	733469	1070562	0.69	NO	10.51	1.00	10.48	10.55	21.044519	105.2		2442	3191
23	BDE-79		2194672.8...	885147	1309526	0.68	NO	10.69	1.02	10.65	10.72	21.009931	105.0		2442	3191
24	BDE-66		1194670.6...	479042	715628	0.67	NO	10.80	1.03	10.77	10.83	21.220440	106.1		2442	3191
25	BDE-77		2173926.1...	880391	1293535	0.68	NO	11.28	1.00	11.25	11.32	21.128170	105.6		2442	3191
26	*PBB-101		2541824.7...	1285955	1255870	1.02	NO	11.42	1.01	11.39	11.45	36.124332	90.3		1779	935
27	*BDE-100		2700081.3...	1367342	1332739	1.03	NO	12.17	1.00	12.13	12.20	31.277770	104.3		3244	2661
28	BDE-119/BDE-120		2723791.6...	1375601	1348191	1.02	NO	12.34	1.02	12.31	12.37	60.645906	101.1		3244	2661
29	BDE-99		1877828.8...	951023	926806	1.03	NO	12.66	1.00	12.63	12.70	30.914021	103.0		3244	2661
30	BDE-116		811962.594	410368	401594	1.02	NO	12.82	1.01	12.79	12.86	28.903255	96.3		3244	2661
31	BDE-83		1012815.6...	502554	510262	0.98	NO	12.96	1.02	12.93	12.99	29.449762	98.2		3244	2661
32	BDE-118		1279685.2...	639569	640116	1.00	NO	13.07	1.03	13.04	13.11	31.856200	106.2		3244	2661
33	BDE-85		1450578.6...	732169	718410	1.02	NO	13.56	0.99	13.52	13.59	31.470603	104.9		3244	2661
34	BDE-126		2501599.2...	1271029	1230571	1.03	NO	13.73	1.00	13.70	13.76	31.217439	104.1		3244	2661
35	BDE-105		1285625.9...	654667	630959	1.04	NO	13.89	1.01	13.86	13.93	32.591230	108.6		3244	2661
36	*PBB-153		2071955.8...	1196403	875553	1.37	NO	14.07	1.00	14.03	14.10	39.684518	99.2		1170	1548
37	*BDE-155		2544317.1...	1469804	1074513	1.37	NO	13.73	0.97	13.70	13.76	38.759567	96.9		2203	1278

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Last Altered: Thursday, November 18, 2021 11:17:55 Eastern Standard Time
Printed: Thursday, November 18, 2021 11:20:20 Eastern Standard Time

Name: 9-211001A15, Date: 01-Oct-2021, Time: 22:16:06, ID: H9-21-CCV-780, Description: PBDEX-CS#3-002, Vial: Tray1:40

	Target Analyte	#Hom	Total Area	Ion1 Area	Ion2 Area	Ra	Ra Fail=YES	RT	RRT	RT LCL	RT UCL	Conc.	%Rec	Mod.Comment	Noise 1	Noise 2
38	BDE-154		2183790.0...	1263633	920158	1.37	NO	14.10	1.00	14.07	14.14	40.660534	101.7		2203	1278
39	*BDE-153		1574388.5...	906821	667567	1.36	NO	14.84	1.00	14.81	14.88	40.618278	101.5		6637	6120
40	BDE-140		1845791.2...	1065732	780059	1.37	NO	15.30	1.01	15.26	15.33	43.826070	109.6		6637	6120
41	BDE-138/BDE-166		2173452.6...	1256063	917390	1.37	NO	15.80	1.06	15.77	15.83	89.193318	111.5		6637	6120
42	BDE-156		853286.219	490553	362733	1.35	NO	16.18	1.09	16.14	16.21	47.254827	118.1		6637	6120
43	BDE-128		1001249.6...	575329	425921	1.35	NO	16.79	0.99	16.76	16.83	49.358475	123.4		6637	6120
44	*BDE-184		1667407.7...	846365	821043	1.03	NO	16.61	0.98	16.57	16.64	48.975590	98.0		1653	2071
45	BDE-183		1186103.4...	603304	582799	1.04	NO	16.98	1.00	16.95	17.02	51.602342	103.2		1653	2071
46	BDE-191		803434.407	408391	395043	1.03	NO	17.54	1.03	17.51	17.58	51.624867	103.2		1653	2071
47	BDE-181		767161.782	388350	378811	1.03	NO	18.08	1.01	18.05	18.11	49.326138	98.7		1653	2071
48	BDE-190		528232.328	268814	259418	1.04	NO	18.24	1.02	18.21	18.28	49.223153	98.4		1653	2071
49	*PBB-180		938372.032	474174	464198	1.02	NO	17.09	0.96	17.05	17.12	40.319075	100.8		2213	1391
50	*BDE-197		1005388.4...	451037	554352	0.81	NO	19.46	1.00	19.42	19.49	51.096391	102.2		3168	4069
51	BDE-203		711269.969	319542	391728	0.82	NO	19.72	1.01	19.69	19.75	50.162845	100.3		3168	4069
52	BDE-196		831589.532	373547	458042	0.82	NO	19.85	1.02	19.81	19.88	52.384808	104.8		3168	4069
53	*PBB-194		531350.344	299636	231714	1.29	NO	19.92	1.02	19.89	19.96	43.141118	107.9		1573	2724
54	*BDE-208		3398632.0...	1719613	1679019	1.02	NO	21.17	0.99	21.13	21.20	99.225414	99.2		5327	7716
55	BDE-207		4001441.8...	2019313	1982129	1.02	NO	21.28	1.00	21.25	21.32	98.529278	98.5		5327	7716
56	BDE-206		3657627.5...	1848153	1809475	1.02	NO	21.56	1.01	21.52	21.59	111.39617	111.4		5327	7716
57	*PBB-206		1248513.9...	612533	635981	0.96	NO	21.00	0.99	20.97	21.03	101.39651	101.4		6735	7448
58	*PBB-209		1214299.8...	662400	551900	1.20	NO	21.91	1.03	21.88	21.94	104.01116	104.0		3436	4562
59	*BDE-209		1607819.2...	892052	715767	1.25	NO	23.24	1.00	23.21	23.28	102.41680	102.4		3012	2305
60	*DBDPE		3123803.8...	1586927	1536877	1.03	NO	24.67	1.00	24.64	24.70	212.74017	106.4		1555	1501
61	13C12-BDE-3		11650050....	5864006	5786045	1.01	NO	5.04	0.47	5.01	5.08	45.906255	91.8		3782	6368
62	13C12-BDE-15		8371692.5...	2828829	5542864	0.51	NO	7.07	0.66	7.03	7.10	47.291534	94.6		5041	11236
63	13C12-BDE-28		4990723.5...	2555704	2435019	1.05	NO	8.62	0.81	8.58	8.65	48.205517	96.4		4070	3976
64	13C6-HBB		2479562.2...	1783065	696497	2.56	NO	9.95	0.93	9.92	9.99	43.490771	87.0		1925	2452
65	13C12-BDE-47		4377936.0...	2665485	1712452	1.56	NO	10.51	0.98	10.48	10.55	48.018942	96.0		6150	4260
66	13C12-BDE-77		5490526.0...	3352293	2138233	1.57	NO	11.27	1.06	11.24	11.30	51.156077	102.3		6150	4260
67	13C12-BDE-100		4996623.7...	2546513	2450111	1.04	NO	12.15	0.80	12.12	12.19	46.025677	92.1		7056	5759
68	13C12-BDE-99		3244575.0...	1646632	1597943	1.03	NO	12.66	0.84	12.63	12.70	48.521952	97.0		7056	5759
69	13C12-BDE-126		4332020.0...	2203792	2128228	1.04	NO	13.73	0.91	13.70	13.76	51.625892	103.3		7056	5759
70	13C12-BDE-154		2814188.2...	1631620	1182568	1.38	NO	14.10	0.93	14.07	14.14	41.992788	84.0		2145	1609
71	13C12-BDE-153		1837756.0...	1061693	776063	1.37	NO	14.84	0.98	14.81	14.88	49.980997	100.0		3643	3276
72	13C12-BDE-183		1379917.8...	701371	678547	1.03	NO	16.97	0.95	16.94	17.00	44.197490	88.4		1868	1856
73	13C12-BDE-197		2413592.3...	1082540	1331052	0.81	NO	19.44	1.09	19.41	19.48	90.688207	90.7		2909	2654
74	13C12-BDE-207		10162099....	5162469	4999631	1.03	NO	21.28	0.99	21.25	21.32	229.89766	92.0		6138	13777

Quantify Sample Summary Report **MassLynx MassLynx V4.1 SCN 901**

Dataset: I:\Organics Instrument\HIGHRES GCMS Completed Results Files\HR-9\2110\9-211001A2-LCS.qld

Last Altered: Thursday, November 18, 2021 11:17:55 Eastern Standard Time
Printed: Thursday, November 18, 2021 11:20:20 Eastern Standard Time

Name: 9-211001A15, Date: 01-Oct-2021, Time: 22:16:06, ID: H9-21-CCV-780, Description: PBDEX-CS#3-002, Vial: Tray1:40

	Target Analyte	#Hom	Total Area	Ion1 Area	Ion2 Area	Ra	Ra Fail=YES	RT	RRT	RT LCL	RT UCL	Conc.	%Rec	Mod.Comment	Noise 1	Noise 2
75	13C12-BDE-209		3993007.7...	2212914	1780094	1.24	NO	23.24	1.08	23.20	23.27	246.71970	98.7		7473	7762
76	13C14-DBDPE		7532226.7...	3846761	3685466	1.04	NO	24.66	1.14	24.63	24.69	730.22205	146.0		3292	4025
77	13C12-BDE-138 (CL)		1720903.8...	1004482	716422	1.40	NO	15.79	1.04	15.76	15.82	51.880875	103.8		3643	3276
78	13C12-BDE-79 (IS)		5394519.5...	3287562	2106958	1.56	NO	10.67	0.71	10.64	10.71	57.914341	115.8		6150	4260
79	13C12-BDE-139 (IS)		2116677.5...	1227252	889426	1.38	NO	15.11	0.00	15.08	15.14	64.299814	128.6		3643	3276
80	13C12-BDE-180 (IS)		861725.563	436943	424782	1.03	NO	17.85	1.18	17.81	17.88	62.526265	125.1		1868	1856
81	13C12-BDE-206 (IS)		8774829.0...	4440210	4334620	1.02	NO	21.56	1.43	21.52	21.59	358.54493	143.4		6138	13777
82	Total MoF1	3		5320612								61.389738			41168	
83	Total DiF2	5		5960737								145.34658			3234	
84	Total TriF3	6		7675157								169.43723			3497	
85	Total PBEBF3	1		660975								20.720598			1375	
86	Total TePBBF3	1		754627								21.229685			5380	
87	Total HBBF4	1		308773								20.113782			1283	
88	Total TetraF4	8		5371326								168.96070			2442	
89	Total PePBBF4	1		1285955								36.124332			1779	
90	Total PentaF5	9		7904321								308.32619			3244	
91	Total PBB-153	1		1196403								39.684518			1170	
92	Total HexaF5	2		2733437								79.420101			2203	
93	Total HexaF6	5		4294498								270.25097			6637	
94	Total HeptaF6	5		2515225								250.75209			1653	
95	Total PBB-180	1		474174								40.319075			2213	
96	Total OctaF7	3		1144126								153.64404			3168	
97	Total PBB-194	1		299636								43.141118			1573	
98	Total NonaF8	3		5587079								309.15086			5327	
99	Total PBB-206	1		612533								101.39651			6735	
100	Total PBB-209	1		662400								104.01116			3436	
101	Total DecaF9	1		892052								102.41680			3012	
102	Total DBDPEF10															
103	Total 13CMoF1	1		5864006								45.906255			3782	
104	Total 13CDiF2	1		2828829								47.291534			5041	
105	Total 13CTriF3	1		2555704								48.205517			4070	
106	Total 13CHBBF4	1		1783065								43.490771			1925	
107	Total 13CTetraF4	3		9305339								157.08936			6150	
108	Total 13CPentaF5	3		6396937								146.17352			7056	
109	Total 13CHexaF5	1		1631620								41.992788			2145	
110	Total 13CHexaF6	3		3293426								166.16169			3643	
111	Total 13CHeptaF6	2		1138315								106.72375			1868	

Quantify Sample Summary Report **MassLynx MassLynx V4.1 SCN 901**

Dataset: I:\Organics Instrument\HIGHRES GCMS Completed Results Files\HR-9\2110\9-211001A2-LCS.qld

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Name: 9-211001A15, Date: 01-Oct-2021, Time: 22:16:06, ID: H9-21-CCV-780, Description: PBDEX-CS#3-002, Vial: Tray1:40

	Target Analyte	#Hom	Total Area	Ion1 Area	Ion2 Area	Ra	Ra Fail=YES	RT	RRT	RT LCL	RT UCL	Conc.	%Rec	Mod.Comment	Noise 1	Noise 2
112	Total 13COctaF7	1		1082540								90.688207			2909	
113	Total 13CNonaF8	2		9602678								588.44259			6138	
114	Total 13CDecaF9	1		2212914								246.71970			7473	
115	Total 13CDBDPEF10															
116	Lockmass F1			0											295673	
117	Lockmass F2			0											441177	
118	Lockmass F3			0											328602	
119	Lockmass F4			0											174888	
120	Lockmass F5			0											154416	
121	Lockmass F6			0											54268	
122	Lockmass F7			0											28689	
123	Lockmass F8			0											50937	
124	Lockmass F9			0											96608	
125	Lockmass F10															

Quantify Sample Summary Report **MassLynx MassLynx V4.1 SCN 901**

Dataset: I:\Organics Instrument\HIGHRES GCMS Completed Results Files\HR-9\2110\9-211001A2-LCS.qld

Last Altered: Thursday, November 18, 2021 11:17:55 Eastern Standard Time
Printed: Thursday, November 18, 2021 11:20:20 Eastern Standard Time

Name: 9-211001A25, Date: 02-Oct-2021, Time: 04:36:40, ID: H9-21-CCV-782, Description: PBDEX-CS#3-002, Vial: Tray1:40

	Target Analyte	#Hom	Total Area	Ion1 Area	Ion2 Area	Ra	Ra Fail=YES	RT	RRT	RT LCL	RT UCL	Conc.	%Rec	Mod.Comment	Noise 1	Noise 2
1	*BDE-1		2655846.2...	1349641	1306206	1.03	NO	4.83	0.96	4.80	4.87	19.890147	99.5		41478	40459
2	BDE-2		4279864.2...	2172489	2107376	1.03	NO	4.94	0.98	4.91	4.97	21.109925	105.5		41478	40459
3	BDE-3		5021620.0...	2537194	2484426	1.02	NO	5.04	1.00	5.01	5.08	21.583868	107.9		41478	40459
4	*BDE-10		1766857.6...	602396	1164462	0.52	NO	6.26	0.89	6.23	6.29	20.787288	103.9		1155	4358
5	BDE-7		1900452.7...	644796	1255657	0.51	NO	6.64	0.94	6.61	6.67	20.761787	103.8		1155	4358
6	BDE-8/BDE-11		5486327.8...	1870195	3616133	0.52	NO	6.81	0.96	6.77	6.84	42.474884	106.2		1155	4358
7	BDE-12/BDE-13		6406729.2...	2180676	4226054	0.52	NO	6.92	0.98	6.88	6.95	43.588247	109.0		1155	4358
8	BDE-15		3795086.3...	1297811	2497276	0.52	NO	7.07	1.00	7.03	7.10	21.699098	108.5		1155	4358
9	*BDE-30		1503206.0...	760838	742369	1.02	NO	7.76	0.90	7.73	7.79	21.172641	105.9		8545	5586
10	BDE-32		2129836.1...	1077829	1052007	1.02	NO	8.22	0.95	8.18	8.25	21.494170	107.5		8545	5586
11	BDE-17/BDE-25		3340417.6...	1695141	1645276	1.03	NO	8.38	0.97	8.35	8.42	42.263936	105.7		8545	5586
12	BDE-28/BDE-33		3445574.8...	1744823	1700752	1.03	NO	8.62	1.00	8.58	8.65	42.340169	105.9		8545	5586
13	BDE-35		2657789.8...	1340218	1317572	1.02	NO	8.76	1.02	8.73	8.79	21.958692	109.8		8545	5586
14	BDE-37		2682542.3...	1363468	1319075	1.03	NO	8.95	1.04	8.92	8.98	22.187771	110.9		8545	5586
15	*PBEB		1313328.5...	664039	649290	1.02	NO	8.97	0.90	8.94	9.00	21.059076	105.3		1256	1095
16	*PBB-52		1250506.6...	758934	491573	1.54	NO	9.07	0.91	9.04	9.10	21.482044	107.4		1800	2048
17	*HBB		1057571.6...	303468	754103	0.40	NO	9.95	1.00	9.92	9.99	20.148459	100.7		1635	1229
18	*BDE-75		1472257.5...	594771	877486	0.68	NO	10.02	0.95	9.98	10.05	19.127300	95.6		6185	3443
19	BDE-51		1933658.1...	789799	1143859	0.69	NO	10.08	0.96	10.04	10.11	22.726098	113.6		6185	3443
20	BDE-49		1249757.2...	509440	740317	0.69	NO	10.18	0.97	10.14	10.21	21.393787	107.0		6185	3443
21	BDE-71		1255150.8...	520859	734291	0.71	NO	10.25	0.98	10.22	10.29	21.731054	108.7		6185	3443
22	BDE-47		1768073.9...	719692	1048382	0.69	NO	10.51	1.00	10.48	10.55	20.579042	102.9		6185	3443
23	BDE-79		2167106.7...	882530	1284576	0.69	NO	10.67	1.02	10.64	10.71	20.788196	103.9		6185	3443
24	BDE-66		1217440.1...	494455	722985	0.68	NO	10.80	1.03	10.77	10.83	21.668831	108.3		6185	3443
25	BDE-77		2175323.5...	884521	1290803	0.69	NO	11.27	1.00	11.24	11.30	21.257142	106.3		6185	3443
26	*PBB-101		2455650.3...	1241415	1214236	1.02	NO	11.42	1.01	11.39	11.45	34.970547	87.4		967	1894
27	*BDE-100		2651101.6...	1340394	1310708	1.02	NO	12.15	1.00	12.12	12.19	31.141548	103.8		5100	2341
28	BDE-119/BDE-120		2670970.0...	1351430	1319540	1.02	NO	12.33	1.01	12.29	12.36	61.381516	102.3		5100	2341
29	BDE-99		1842857.2...	931679	911178	1.02	NO	12.66	1.00	12.63	12.70	31.177042	103.9		5100	2341
30	BDE-116		771822.094	390292	381530	1.02	NO	12.82	1.01	12.79	12.86	28.357565	94.5		5100	2341
31	BDE-83		979059.969	495416	483644	1.02	NO	12.95	1.02	12.92	12.98	29.383374	97.9		5100	2341
32	BDE-118		1238311.3...	628984	609327	1.03	NO	13.07	1.03	13.04	13.11	31.817176	106.1		5100	2341
33	BDE-85		1356389.2...	688262	668128	1.03	NO	13.56	0.99	13.52	13.59	30.373101	101.2		5100	2341
34	BDE-126		2383153.3...	1208814	1174339	1.03	NO	13.73	1.00	13.70	13.76	31.446086	104.8		5100	2341
35	BDE-105		1227364.6...	623307	604058	1.03	NO	13.88	1.01	13.85	13.91	32.114467	107.0		5100	2341
36	*PBB-153		1925106.8...	1113339	811768	1.37	NO	14.05	1.00	14.02	14.09	39.572154	98.9		1579	1831
37	*BDE-155		2387735.0...	1373661	1014074	1.35	NO	13.72	0.97	13.69	13.75	39.038042	97.6		1435	863

Quantify Sample Summary Report **MassLynx MassLynx V4.1 SCN 901**

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Name: 9-211001A25, Date: 02-Oct-2021, Time: 04:36:40, ID: H9-21-CCV-782, Description: PBDEX-CS#3-002, Vial: Tray1:40

	Target Analyte	#Hom	Total Area	Ion1 Area	Ion2 Area	Ra	Ra Fail=YES	RT	RRT	RT LCL	RT UCL	Conc.	%Rec	Mod.Comment	Noise 1	Noise 2
38	BDE-154		2054376.6...	1184701	869676	1.36	NO	14.10	1.00	14.07	14.14	40.635493	101.6		1435	863
39	*BDE-153		1435860.9...	826475	609386	1.36	NO	14.84	1.00	14.81	14.88	40.391522	101.0		4901	4331
40	BDE-140		1705693.2...	982394	723299	1.36	NO	15.30	1.01	15.26	15.33	43.465542	108.7		4901	4331
41	BDE-138/BDE-166		987039.407	567247	419792	1.35	NO	15.79	1.06	15.76	15.82	43.472123	54.3		4901	4331
42	BDE-156		754156.188	435044	319112	1.36	NO	16.16	1.09	16.13	16.20	44.823624	112.1		4901	4331
43	BDE-128		872571.750	506504	366068	1.38	NO	16.78	0.99	16.75	16.82	46.165202	115.4		4901	4331
44	*BDE-184		1450548.5...	736045	714504	1.03	NO	16.60	0.98	16.56	16.63	49.612695	99.2		1599	1749
45	BDE-183		1015917.2...	515890	500027	1.03	NO	16.97	1.00	16.94	17.00	51.466881	102.9		1599	1749
46	BDE-191		659440.750	332676	326764	1.02	NO	17.53	1.03	17.50	17.56	49.340890	98.7		1599	1749
47	BDE-181		623906.969	318560	305347	1.04	NO	18.08	1.01	18.05	18.11	46.712453	93.4		1599	1749
48	BDE-190		450951.563	228813	222138	1.03	NO	18.23	1.02	18.20	18.27	48.932458	97.9		1599	1749
49	*PBB-180		826702.750	419047	407656	1.03	NO	17.08	0.96	17.04	17.11	41.362575	103.4		2698	1168
50	*BDE-197		822994.250	370002	452993	0.82	NO	19.44	1.00	19.41	19.48	50.936334	101.9		3936	2485
51	BDE-203		521103.813	233285	287819	0.81	NO	19.71	1.01	19.67	19.74	44.755508	89.5		3936	2485
52	BDE-196		660932.063	297584	363348	0.82	NO	19.83	1.02	19.80	19.87	50.702307	101.4		3936	2485
53	*PBB-194		402891.875	225385	177507	1.27	NO	19.91	1.02	19.88	19.94	39.835796	99.6		1824	1760
54	*BDE-208		2673112.3...	1360829	1312283	1.04	NO	21.15	0.99	21.12	21.19	92.876326	92.9		6592	6058
55	BDE-207		3390470.2...	1712139	1678332	1.02	NO	21.27	1.00	21.24	21.31	99.352262	99.4		6592	6058
56	BDE-206		2978196.2...	1507956	1470240	1.03	NO	21.55	1.01	21.52	21.59	107.94266	107.9		6592	6058
57	*PBB-206		962199.719	469265	492934	0.95	NO	21.00	0.99	20.97	21.03	92.995913	93.0		9194	6349
58	*PBB-209		952094.063	516860	435234	1.19	NO	21.91	1.03	21.87	21.94	97.051649	97.1		4786	4134
59	*BDE-209		1254158.6...	695622	558537	1.25	NO	23.23	1.00	23.20	23.27	101.49413	101.5		2449	2692
60	*DBDPE		2390005.5...	1213141	1176865	1.03	NO	24.65	1.00	24.62	24.68	211.66490	105.8		1617	1428
61	13C12-BDE-3		13026607....	6560880	6465728	1.01	NO	5.03	0.47	5.00	5.07	51.838528	103.7		4784	6103
62	13C12-BDE-15		9018797.2...	3056861	5961936	0.51	NO	7.06	0.66	7.02	7.09	51.451262	102.9		6481	8374
63	13C12-BDE-28		5143463.2...	2617347	2526116	1.04	NO	8.60	0.81	8.57	8.64	50.172548	100.3		4033	3910
64	13C6-HBB		2449874.6...	1757795	692080	2.54	NO	9.95	0.93	9.92	9.99	43.395355	86.8		3026	1771
65	13C12-BDE-47		4387726.5...	2670635	1717092	1.56	NO	10.50	0.98	10.47	10.53	48.602656	97.2		5083	3889
66	13C12-BDE-77		5460721.7...	3333679	2127043	1.57	NO	11.27	1.06	11.24	11.30	51.381952	102.8		5083	3889
67	13C12-BDE-100		4927444.7...	2511573	2415872	1.04	NO	12.15	0.80	12.12	12.19	49.109439	98.2		5086	3667
68	13C12-BDE-99		3157287.2...	1598212	1559075	1.03	NO	12.65	0.84	12.62	12.68	51.087448	102.2		5086	3667
69	13C12-BDE-126		4096900.1...	2085221	2011679	1.04	NO	13.72	0.91	13.69	13.75	52.826539	105.7		5086	3667
70	13C12-BDE-154		2649048.2...	1532166	1116883	1.37	NO	14.09	0.93	14.06	14.13	42.769197	85.5		2333	1314
71	13C12-BDE-153		1685464.4...	980966	704498	1.39	NO	14.83	0.98	14.80	14.86	49.597105	99.2		4386	2517
72	13C12-BDE-183		1185033.3...	600449	584585	1.03	NO	16.97	0.95	16.94	17.00	46.220949	92.4		1827	1635
73	13C12-BDE-197		1981934.8...	892361	1089574	0.82	NO	19.44	1.09	19.41	19.48	90.685988	90.7		1614	2299
74	13C12-BDE-207		8539145.0...	4343659	4195487	1.04	NO	21.27	0.99	21.24	21.31	237.49087	95.0		10593	10097

Quantify Sample Summary Report **MassLynx MassLynx V4.1 SCN 901**

Dataset: I:\Organics Instrument\HIGHRES GCMS Completed Results Files\HR-9\2110\9-211001A2-LCS.qld

Last Altered: Thursday, November 18, 2021 11:17:55 Eastern Standard Time
Printed: Thursday, November 18, 2021 11:20:20 Eastern Standard Time

Name: 9-211001A25, Date: 02-Oct-2021, Time: 04:36:40, ID: H9-21-CCV-782, Description: PBDEX-CS#3-002, Vial: Tray1:40

	Target Analyte	#Hom	Total Area	Ion1 Area	Ion2 Area	Ra	Ra Fail=YES	RT	RRT	RT LCL	RT UCL	Conc.	%Rec	Mod.Comment	Noise 1	Noise 2
75	13C12-BDE-209		3143009.3...	1754100	1388909	1.26	NO	23.23	1.08	23.19	23.26	238.74306	95.5		5092	5051
76	13C14-DBDPE		5792141.7...	2946971	2845171	1.04	NO	24.64	1.14	24.61	24.67	690.32268	138.1		2938	2930
77	13C12-BDE-138 (CL)		1579008.6...	913080	665929	1.37	NO	15.79	1.05	15.76	15.82	51.505648	103.0		4386	2517
78	13C12-BDE-79 (IS)		5341650.7...	3260776	2080875	1.57	NO	10.67	0.71	10.64	10.71	57.346754	114.7		5083	3889
79	13C12-BDE-139 (IS)		1956298.1...	1131529	824769	1.37	NO	15.10	0.00	15.07	15.13	59.427855	118.9		4386	2517
80	13C12-BDE-180 (IS)		707628.062	356085	351543	1.01	NO	17.83	1.18	17.80	17.87	51.345047	102.7		1827	1635
81	13C12-BDE-206 (IS)		7137683.0...	3599697	3537986	1.02	NO	21.54	1.43	21.51	21.58	291.65013	116.7		10593	10097
82	Total MoF1	3		6059324								62.583940			41478	
83	Total DiF2	5		6595873								149.31130			1155	
84	Total TriF3	6		7982316								171.41738			8545	
85	Total PBEBF3	1		664039								21.059076			1256	
86	Total TePBBF3	1		758934								21.482044			1800	
87	Total HBBF4	1		303468								20.148459			1635	
88	Total TetraF4	8		5396069								169.27145			6185	
89	Total PePBBF4	1		1241415								34.970547			967	
90	Total PentaF5	9		7658578								307.19187			5100	
91	Total PBB-153	1		1113339								39.572154			1579	
92	Total HexaF5	2		2558362								79.673535			1435	
93	Total HexaF6	5		3317665								218.31801			4901	
94	Total HeptaF6	5		2131985								246.06538			1599	
95	Total PBB-180	1		419047								41.362575			2698	
96	Total OctaF7	3		900870								146.39415			3936	
97	Total PBB-194	1		225385								39.835796			1824	
98	Total NonaF8	3		4580924								300.17125			6592	
99	Total PBB-206	1		469265								92.995913			9194	
100	Total PBB-209	1		516860								97.051649			4786	
101	Total DecaF9	1		695622								101.49413			2449	
102	Total DBDPEF10															
103	Total 13CMoF1	1		6560880								51.838528			4784	
104	Total 13CDiF2	1		3056861								51.451262			6481	
105	Total 13CTriF3	1		2617347								50.172548			4033	
106	Total 13CHBBF4	1		1757795								43.395355			3026	
107	Total 13CTetraF4	3		9265089								157.33136			5083	
108	Total 13CPentaF5	3		6195006								153.02343			5086	
109	Total 13CHexaF5	1		1532166								42.769197			2333	
110	Total 13CHexaF6	3		3025575								160.53061			4386	
111	Total 13CHeptaF6	2		956534								97.565995			1827	

Quantify Sample Summary Report **MassLynx MassLynx V4.1 SCN 901**

Dataset: I:\Organics Instrument\HIGHRES GCMS Completed Results Files\HR-9\2110\9-211001A2-LCS.qld

Last Altered: Thursday, November 18, 2021 11:17:55 Eastern Standard Time
Printed: Thursday, November 18, 2021 11:20:20 Eastern Standard Time

Name: 9-211001A25, Date: 02-Oct-2021, Time: 04:36:40, ID: H9-21-CCV-782, Description: PBDEX-CS#3-002, Vial: Tray1:40

	Target Analyte	#Hom	Total Area	Ion1 Area	Ion2 Area	Ra	Ra Fail=YES	RT	RRT	RT LCL	RT UCL	Conc.	%Rec	Mod.Comment	Noise 1	Noise 2
112	Total 13COctaF7	1		892361								90.685988			1614	
113	Total 13CNonaF8	2		7943356								529.14100			10593	
114	Total 13CDecaF9	1		1754100								238.74306			5092	
115	Total 13CDBDPEF10															
116	Lockmass F1			0											277330	
117	Lockmass F2			0											737419	
118	Lockmass F3			0											335912	
119	Lockmass F4			0											190414	
120	Lockmass F5			0											136339	
121	Lockmass F6			0											68507	
122	Lockmass F7			0											37795	
123	Lockmass F8			0											51991	
124	Lockmass F9			0											87831	
125	Lockmass F10															

Quantify Audit Report MassLynx MassLynx V4.1 SCN 901

Dataset: I:\Organics Instrument\HIGHRES GCMS Completed Results Files\HR-9\2110\9-211001A2-LCS.qld

Last Altered: Thursday, November 18, 2021 11:17:55 Eastern Standard Time
Printed: Thursday, November 18, 2021 11:20:20 Eastern Standard Time

Date	Time	Event	Details	Comments
18-Nov-21	11:17:54	Process Extract		
18-Nov-21	11:17:54	Process Integrate		
18-Nov-21	11:17:54	Process Quantify		
18-Nov-21	11:17:55	Dataset Created		
18-Nov-21	11:18:07	Dataset Saved	Saved to 'I:\Organics Instrument\HIGHRES GCMS Complete...	

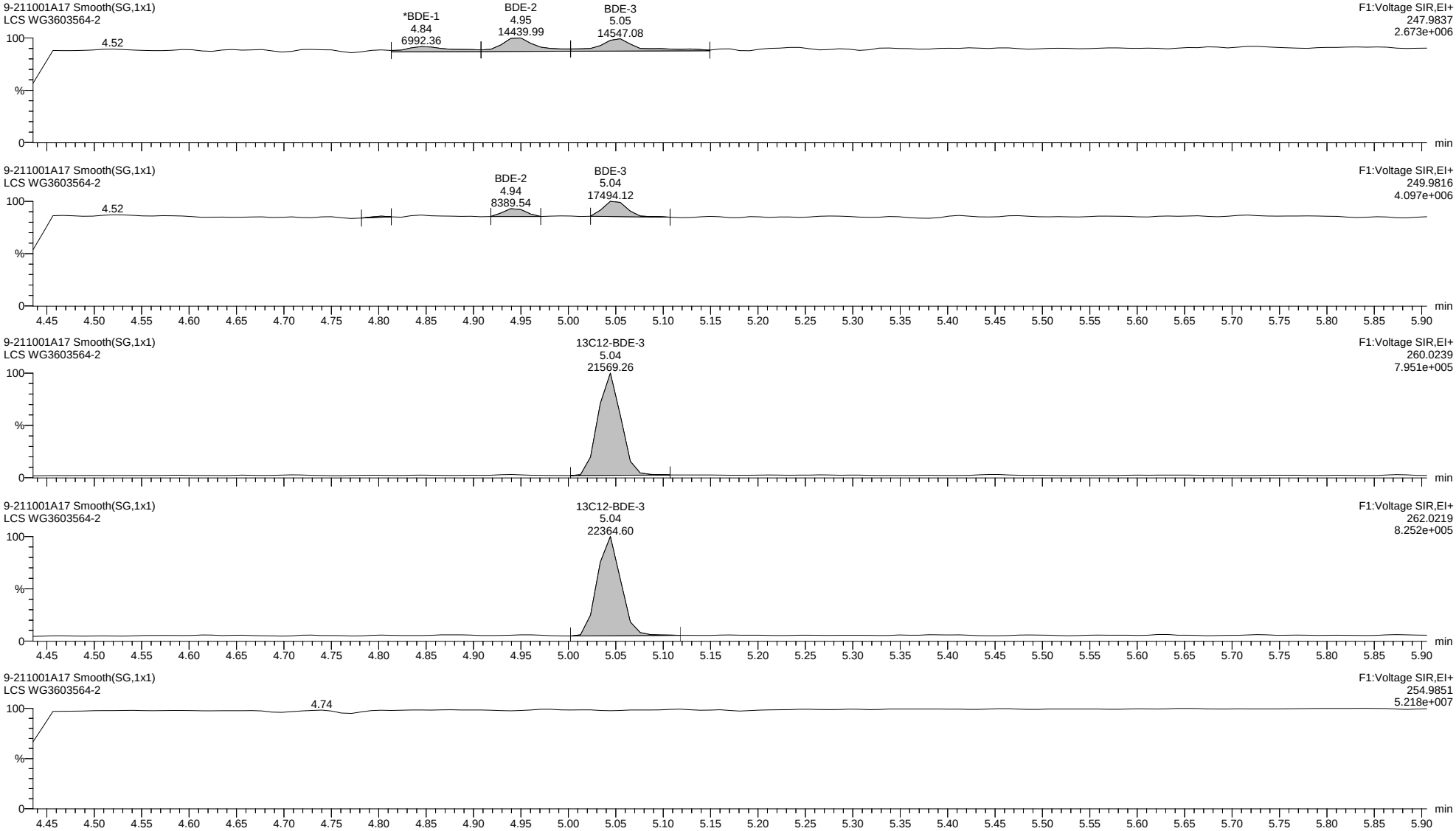
Quantify Sample Template Report **MassLynx MassLynx V4.1 SCN 901**

Dataset: I:\Organics Instrument\HIGHRES GCMS Completed Results Files\HR-9\2110\9-211001A2-LCS.qld

Last Altered: Thursday, November 18, 2021 11:17:55 Eastern Standard Time
Printed: Thursday, November 18, 2021 11:20:20 Eastern Standard Time

Method: C:\MassLynx\PBDE.PRO\Methods\PBDEX-DB5-1-210930B.mdb 01 Oct 2021 09:08:23
Calibration: C:\MassLynx\PBDE.PRO\CurveDB\9-210930B-PBDEX-ICAL.cdb 01 Oct 2021 09:18:22

Name: 9-211001A17, Date: 01-Oct-2021, Time: 23:44:40, ID: WG3603564-2, Description: LCS, Vial: Tray1:65

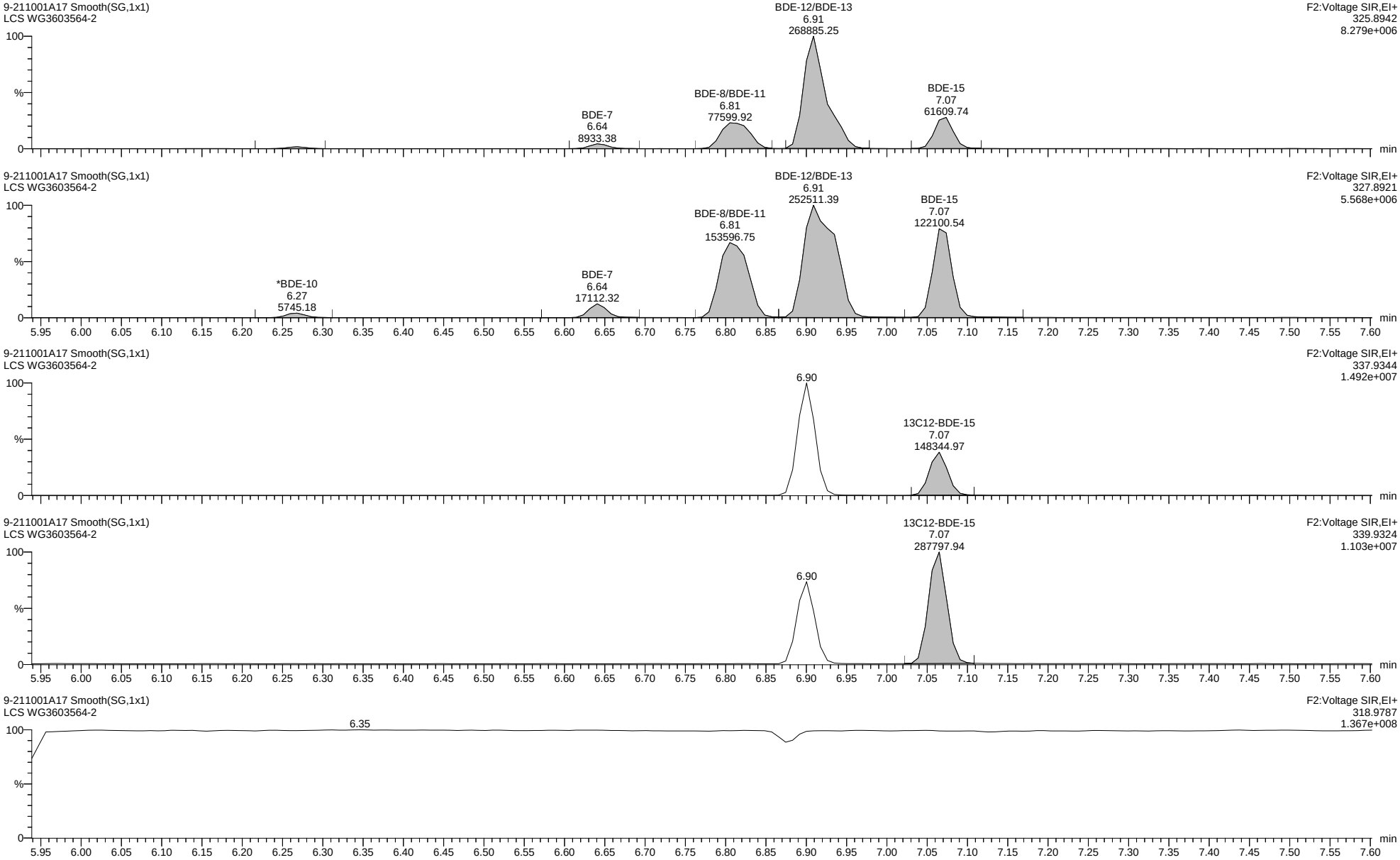


Quantify Sample Template Report **MassLynx MassLynx V4.1 SCN 901**

Dataset: I:\Organics Instrument\HIGHRES GCMS Completed Results Files\HR-9\2110\9-211001A2-LCS.qld

Last Altered: Thursday, November 18, 2021 11:17:55 Eastern Standard Time
Printed: Thursday, November 18, 2021 11:20:20 Eastern Standard Time

Name: 9-211001A17, Date: 01-Oct-2021, Time: 23:44:40, ID: WG3603564-2, Description: LCS, Vial: Tray1:65



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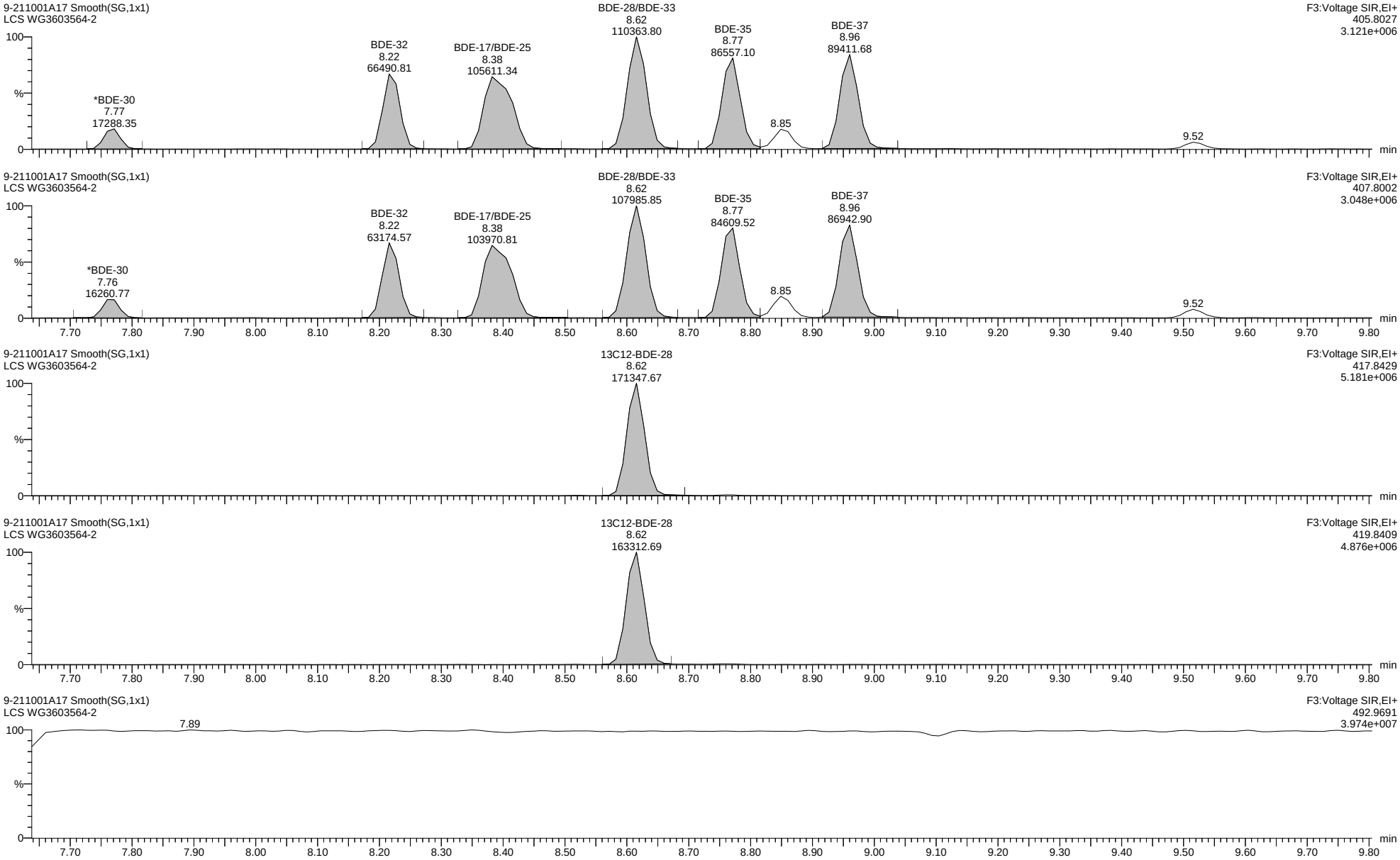

Dataset: I:\Organics Instrument\HIGHRES GCMS Completed Results Files\HR-9\2110\9-211001A2-LCS.qld

Last Altered: Thursday, November 18, 2021 11:17:55 Eastern Standard Time
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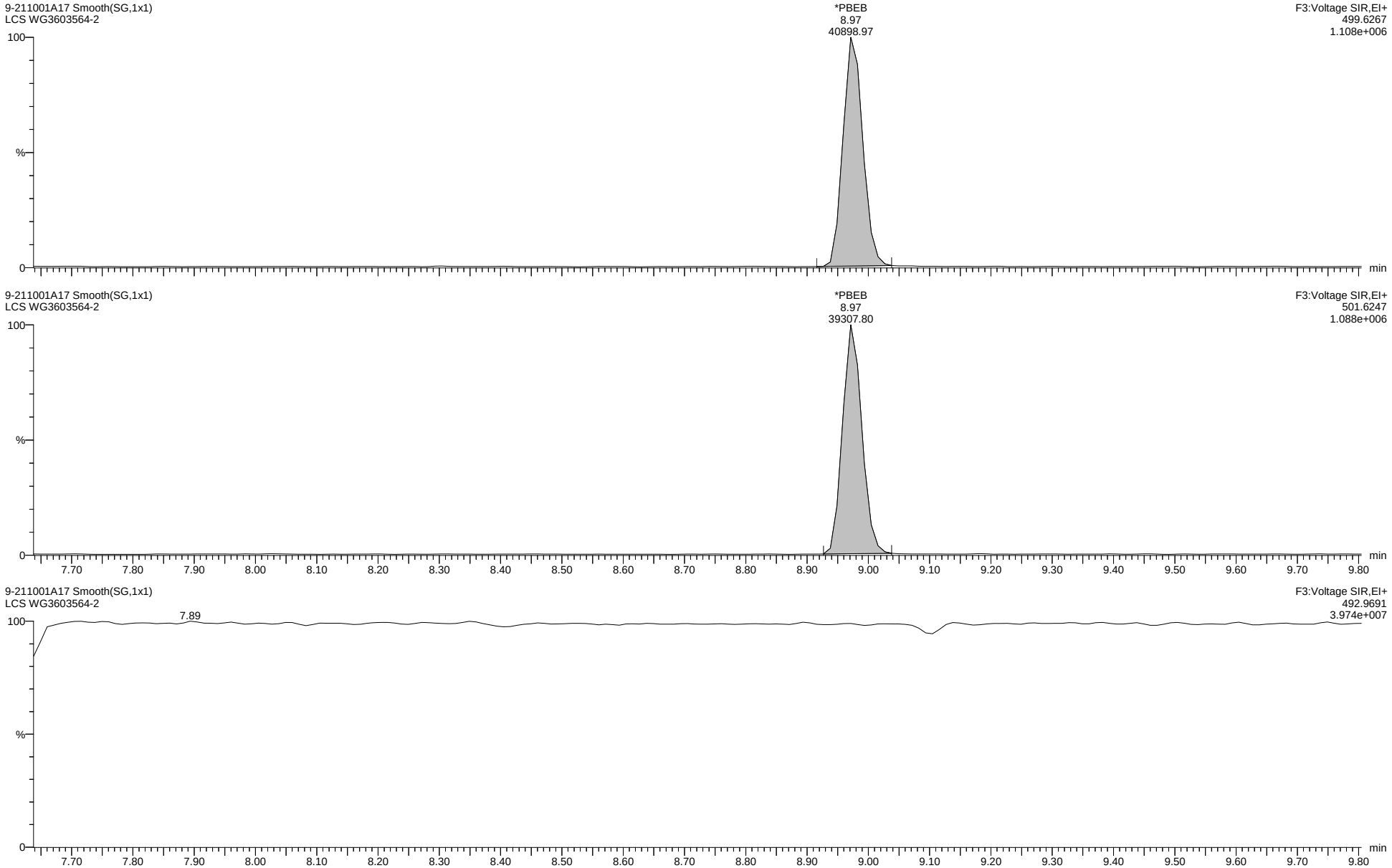
Name: 9-211001A17, Date: 01-Oct-2021, Time: 23:44:40, ID: WG3603564-2, Description: LCS, Vial: Tray1:65



Quantify Sample Template Report **MassLynx MassLynx V4.1 SCN 901**

Dataset: I:\Organics Instrument\HIGHRES GCMS Completed Results Files\HR-9\2110\9-211001A2-LCS.qld

Last Altered: Thursday, November 18, 2021 11:17:55 Eastern Standard Time
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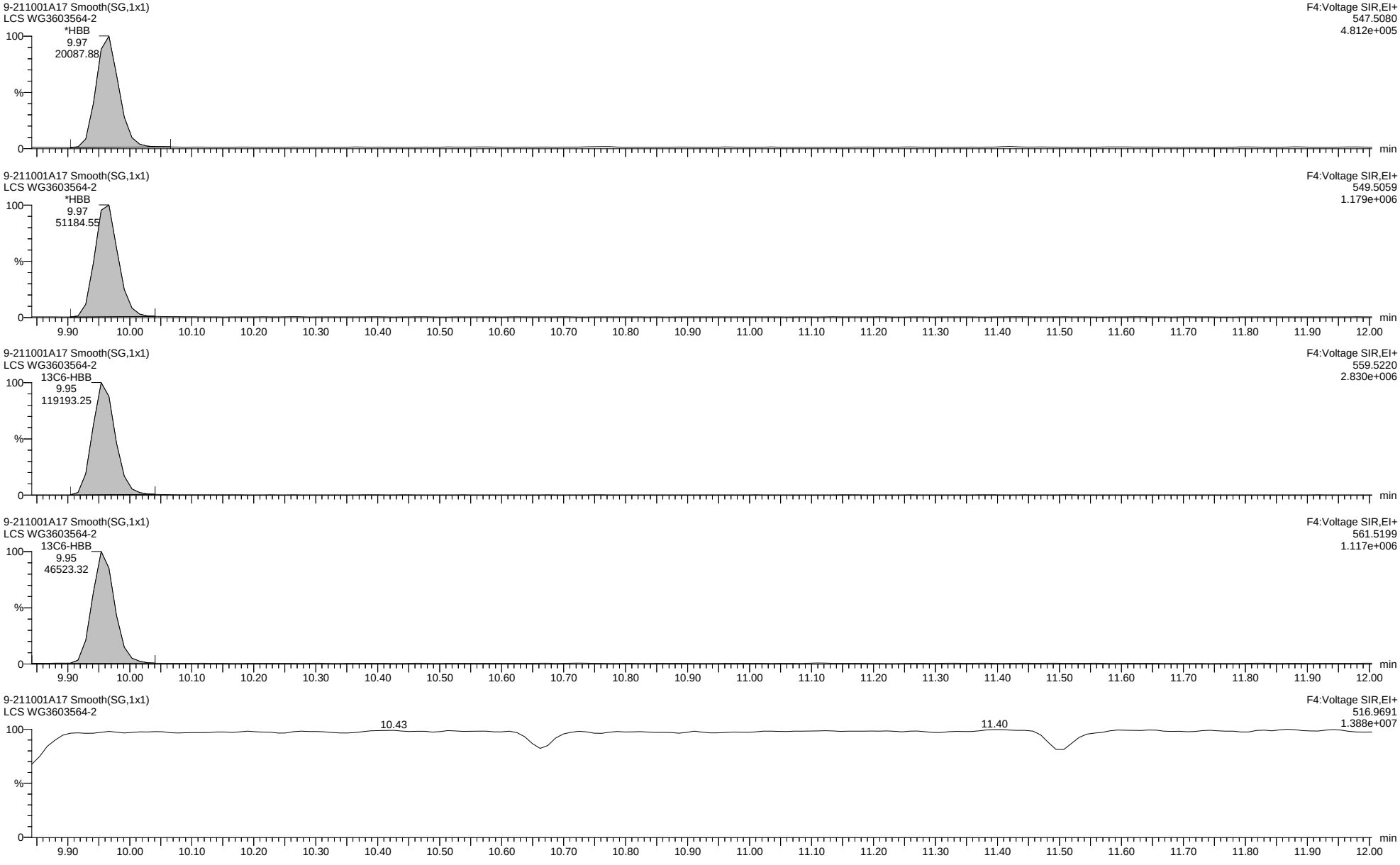
Name: 9-211001A17, Date: 01-Oct-2021, Time: 23:44:40, ID: WG3603564-2, Description: LCS, Vial: Tray1:65



Quantify Sample Template Report **MassLynx MassLynx V4.1 SCN 901**

Dataset: I:\Organics Instrument\HIGHRES GCMS Completed Results Files\HR-9\2110\9-211001A2-LCS.qld

Last Altered: Thursday, November 18, 2021 11:17:55 Eastern Standard Time
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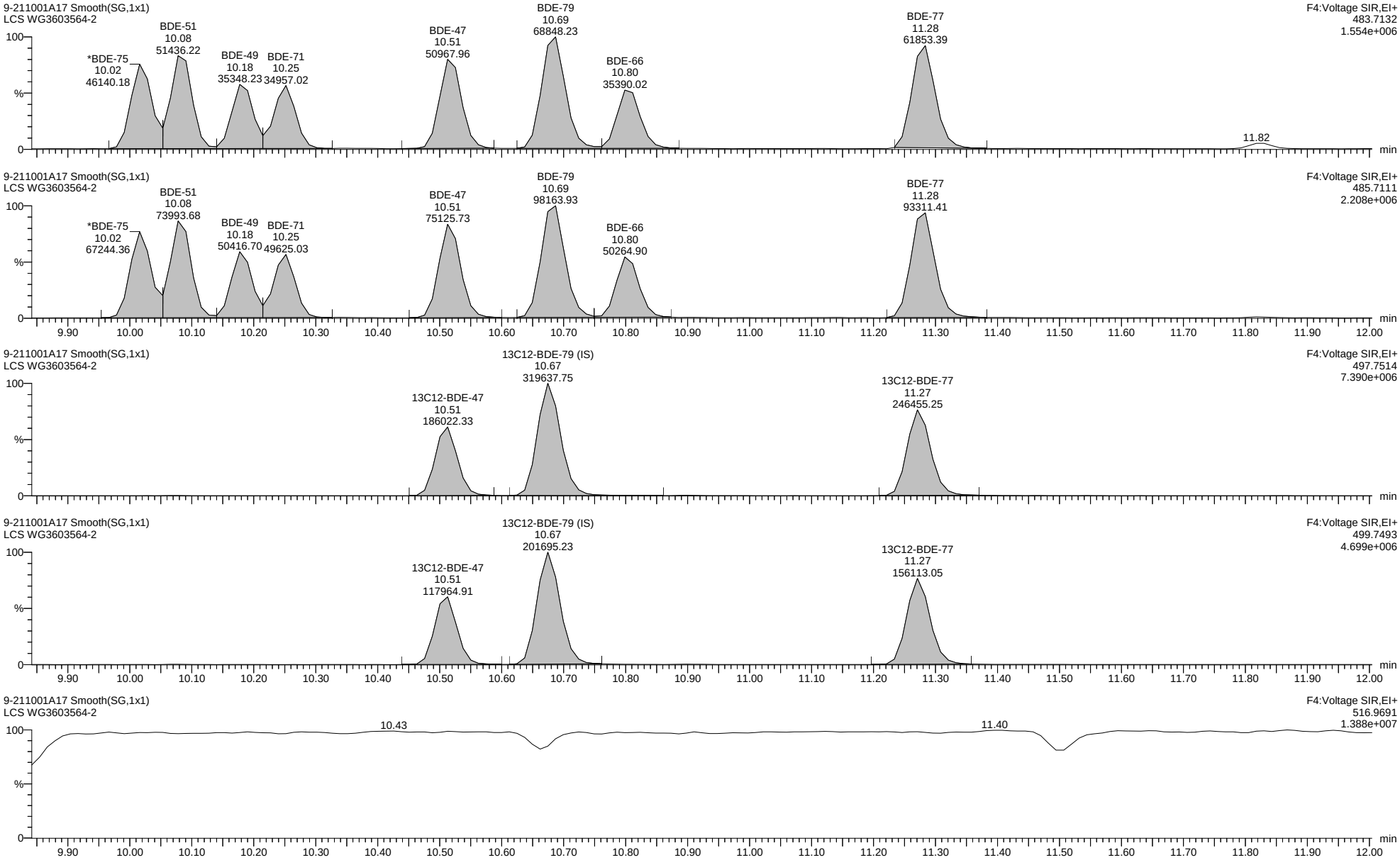
Name: 9-211001A17, Date: 01-Oct-2021, Time: 23:44:40, ID: WG3603564-2, Description: LCS, Vial: Tray1:65



Dataset: I:\Organics Instrument\HIGHRES GCMS Completed Results Files\HR-9\2110\9-211001A2-LCS.qld

Last Altered: Thursday, November 18, 2021 11:17:55 Eastern Standard Time
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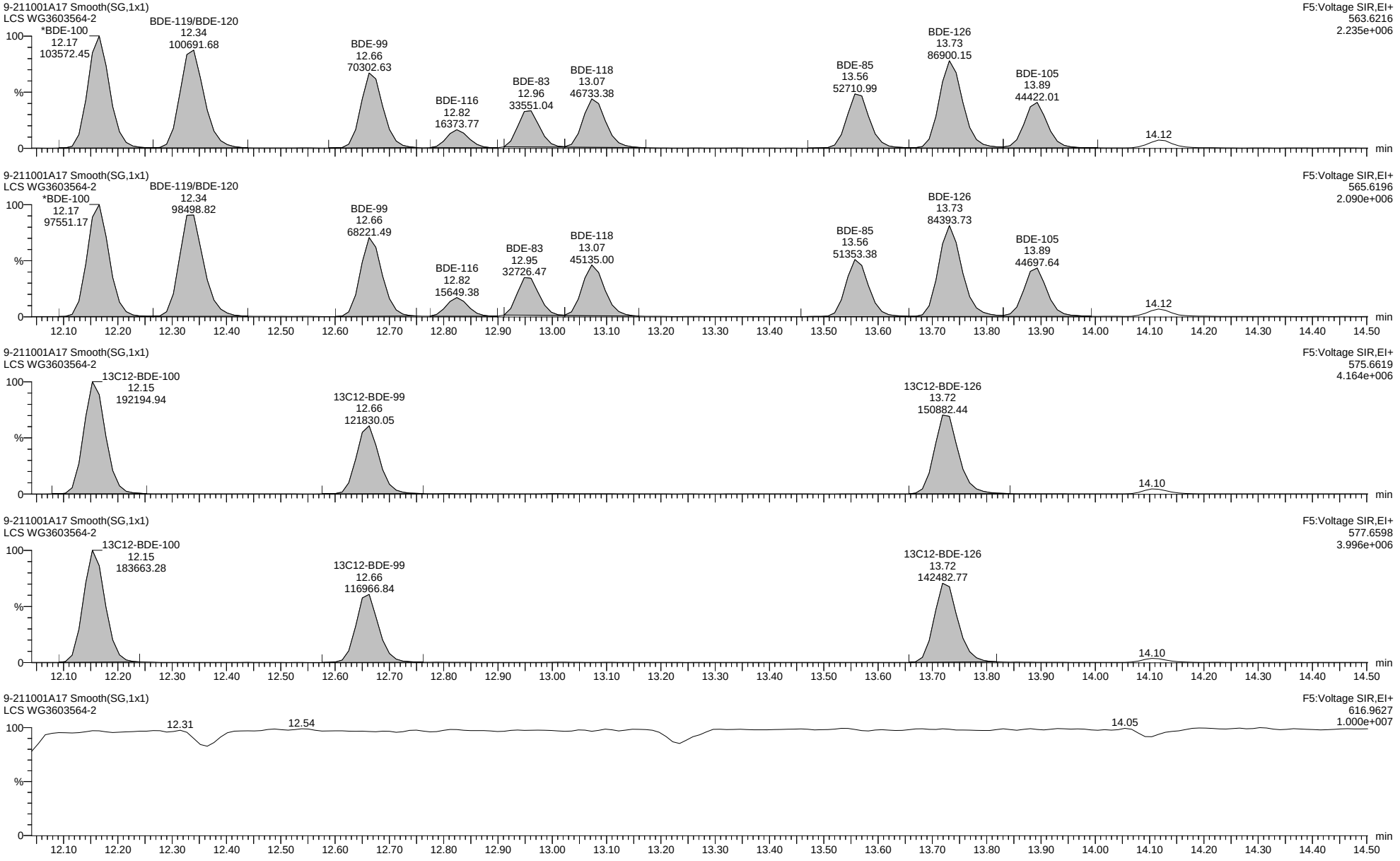
Name: 9-211001A17, Date: 01-Oct-2021, Time: 23:44:40, ID: WG3603564-2, Description: LCS, Vial: Tray1:65



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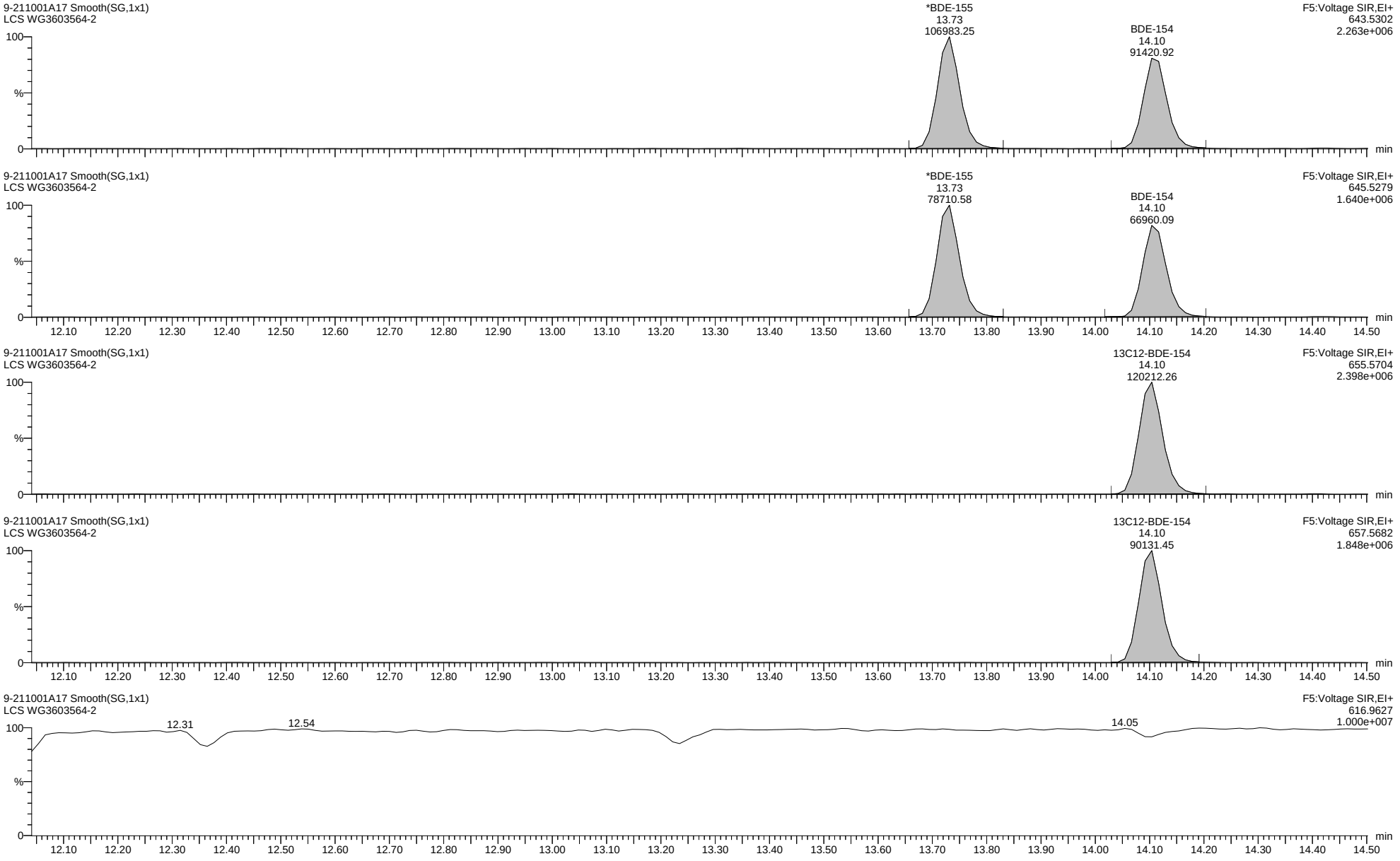

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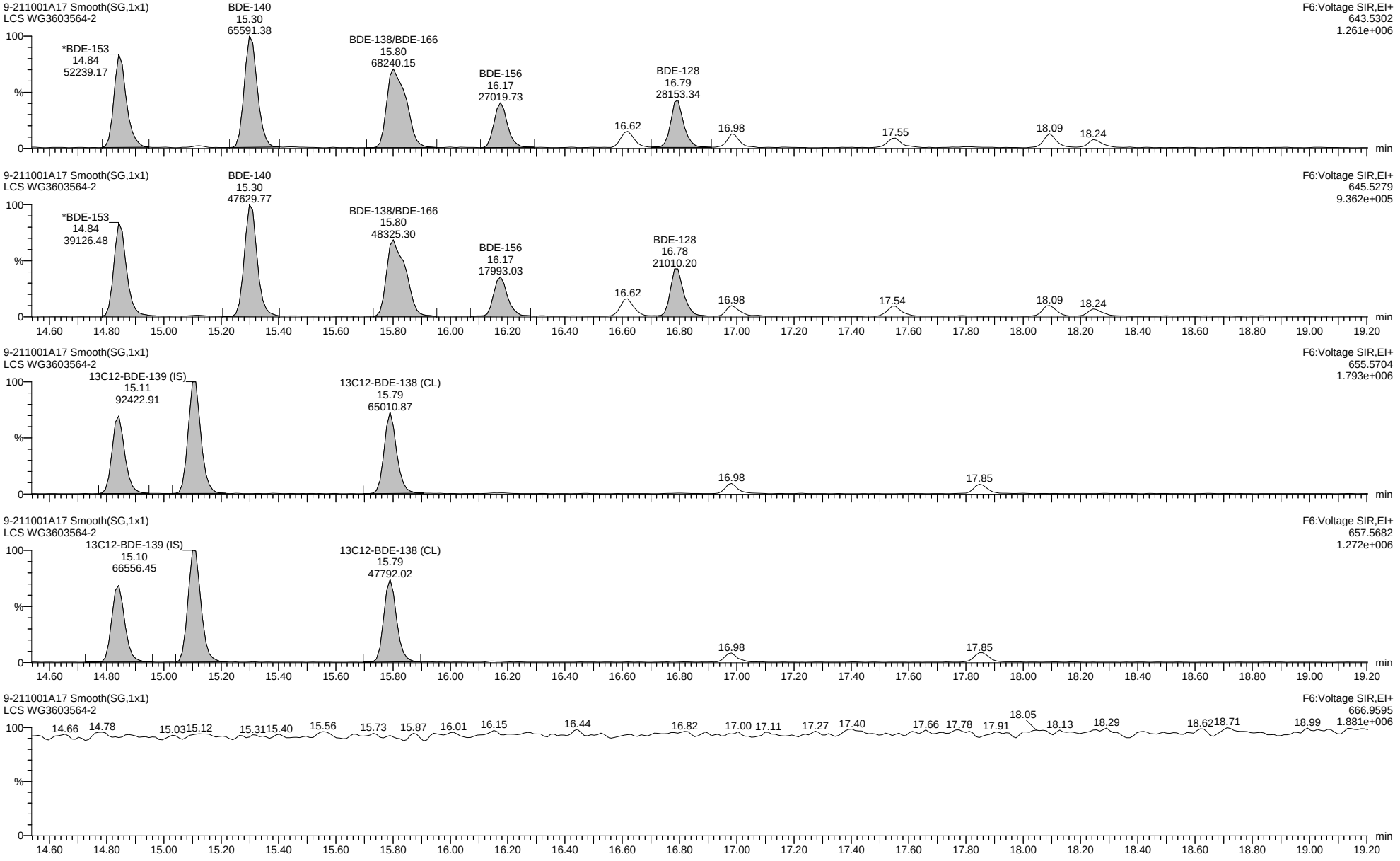

Quantify Sample Template Report **MassLynx MassLynx V4.1 SCN 901**

Dataset: I:\Organics Instrument\HIGHRES GCMS Completed Results Files\HR-9\2110\9-211001A2-LCS.qld

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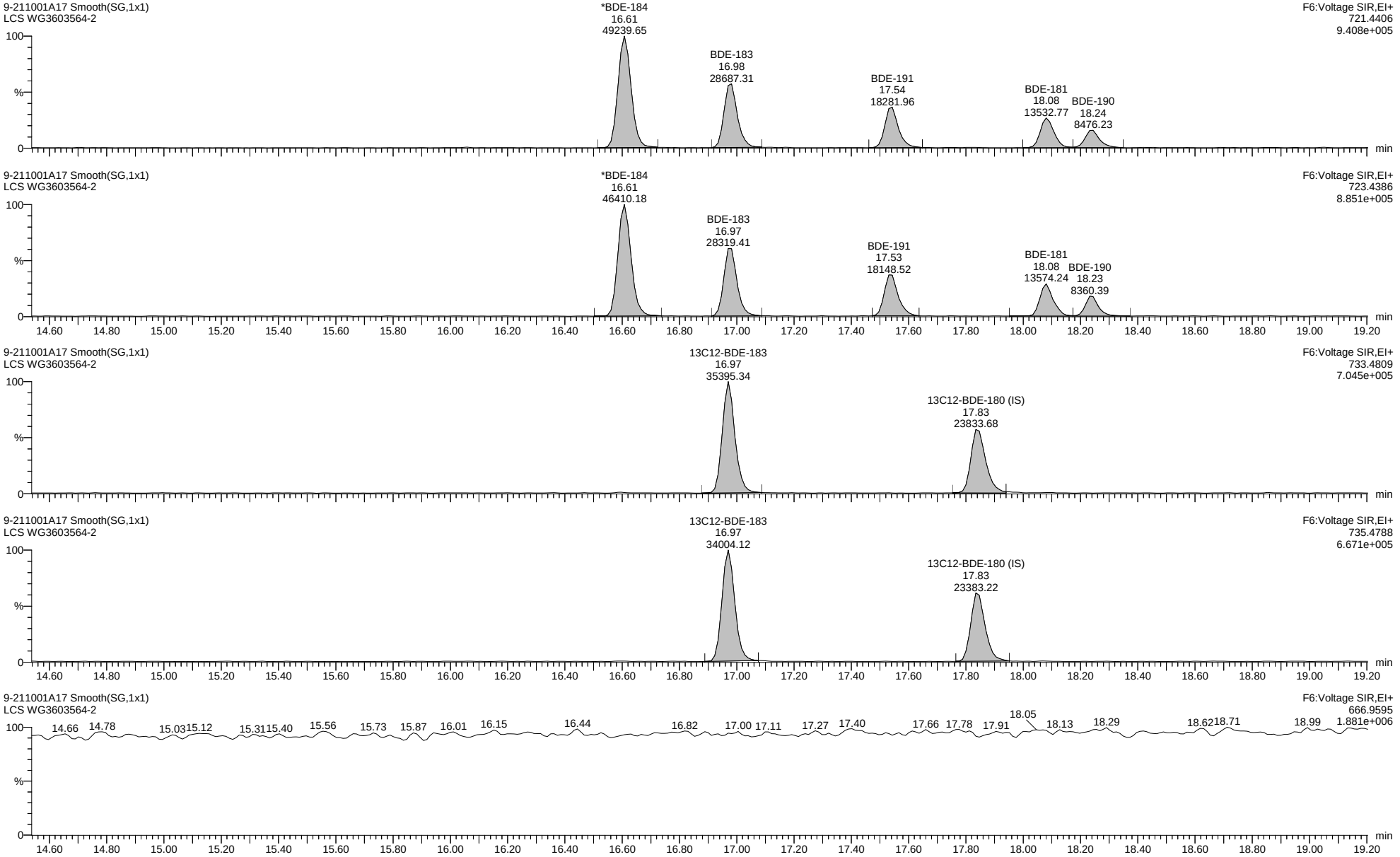
Name: 9-211001A17, Date: 01-Oct-2021, Time: 23:44:40, ID: WG3603564-2, Description: LCS, Vial: Tray1:65



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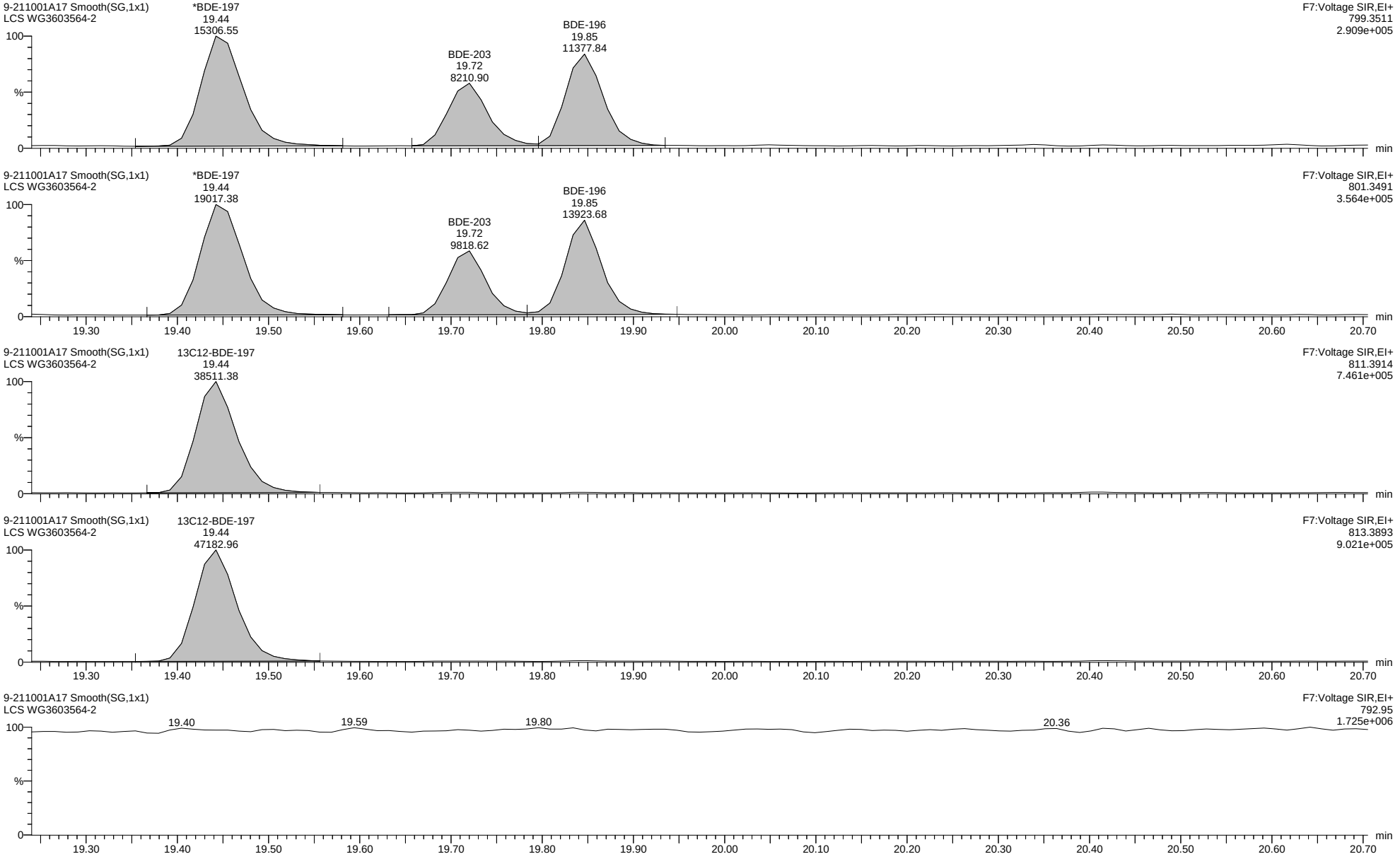
Name: 9-211001A17, Date: 01-Oct-2021, Time: 23:44:40, ID: WG3603564-2, Description: LCS, Vial: Tray1:65



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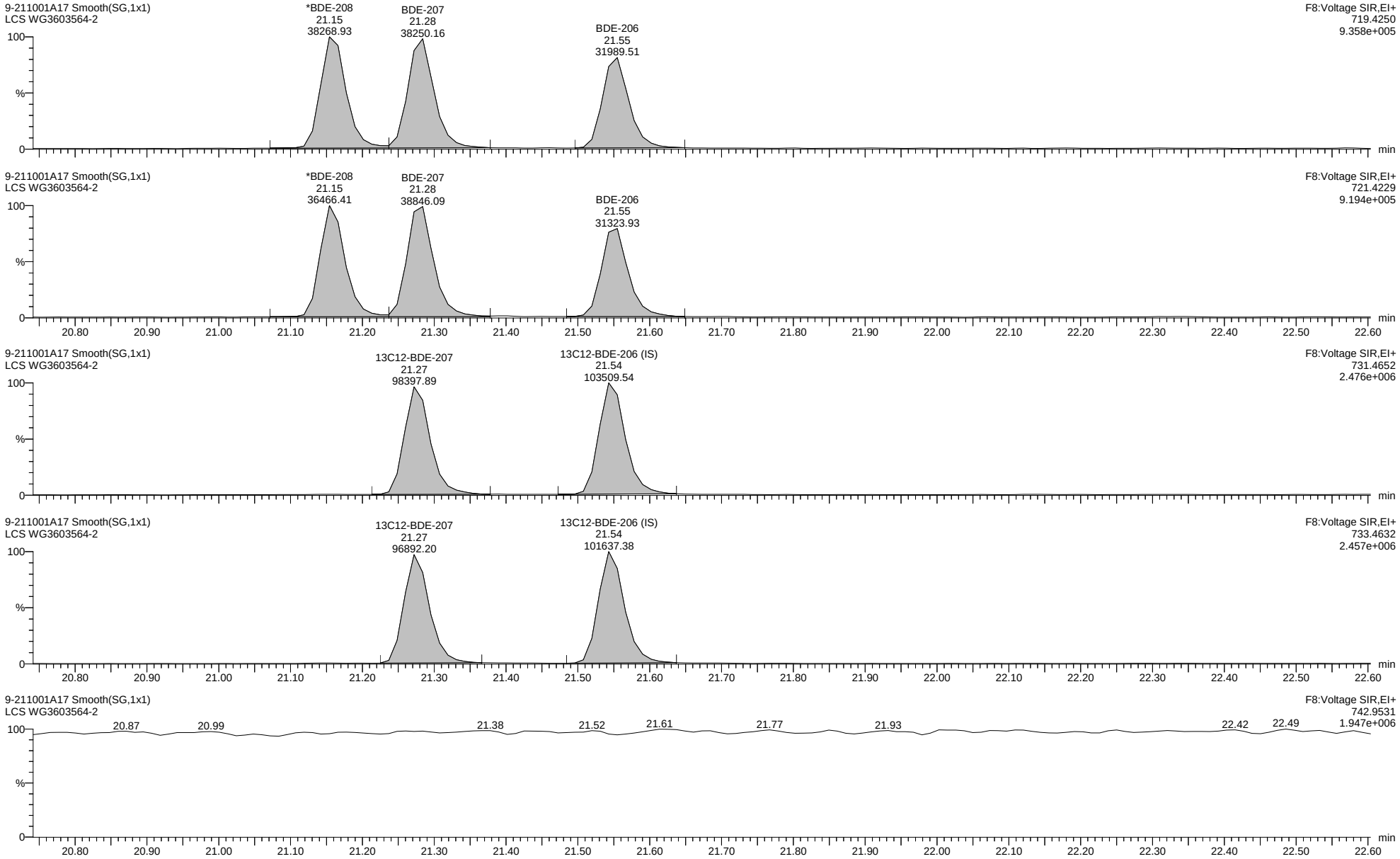
Name: 9-211001A17, Date: 01-Oct-2021, Time: 23:44:40, ID: WG3603564-2, Description: LCS, Vial: Tray1:65



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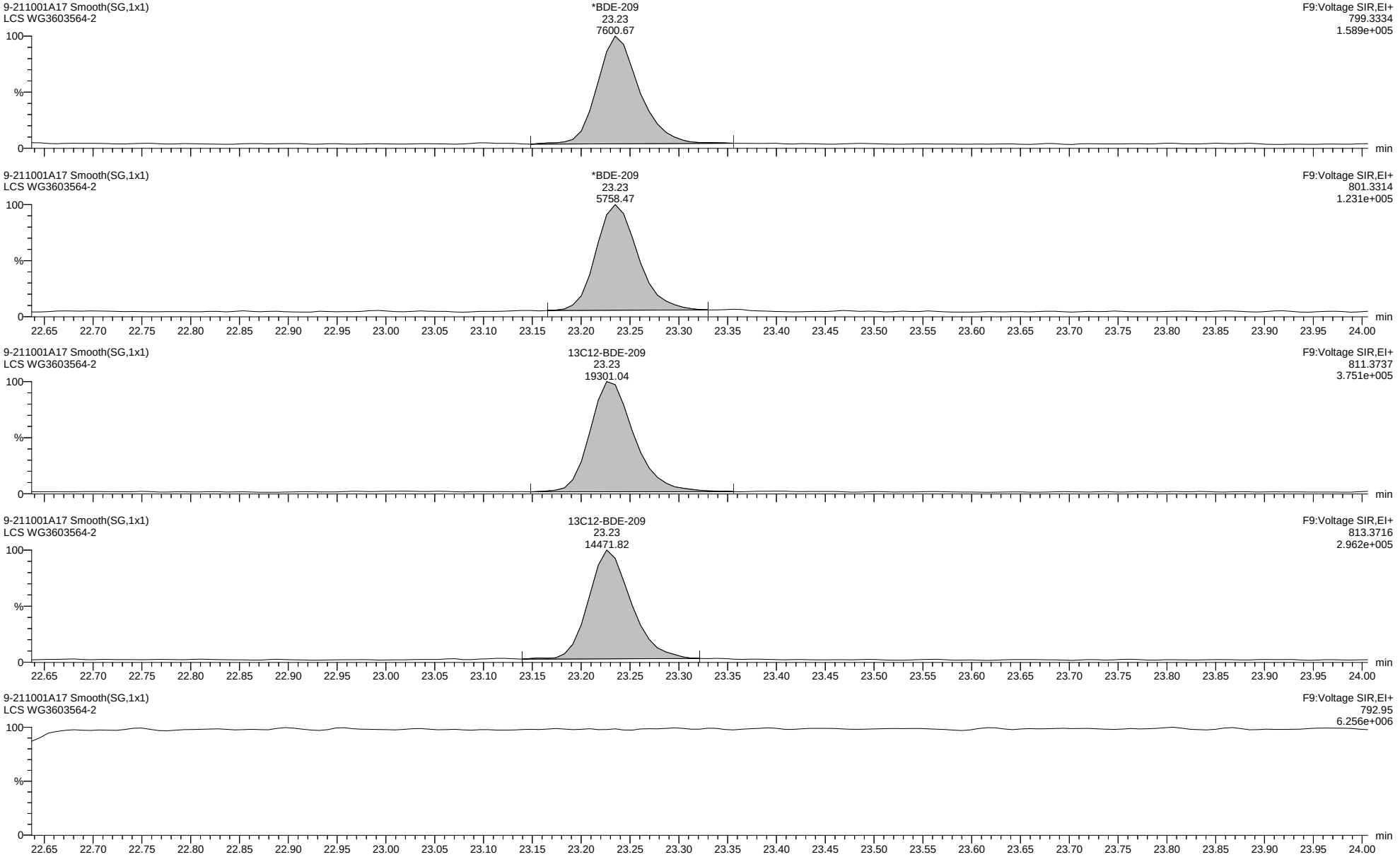

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Name: 9-211001A17, Date: 01-Oct-2021, Time: 23:44:40, ID: WG3603564-2, Description: LCS, Vial: Tray1:65

Quantify Sample Template Report **MassLynx MassLynx V4.1 SCN 901**

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Last Altered: Thursday, November 18, 2021 11:17:55 Eastern Standard Time
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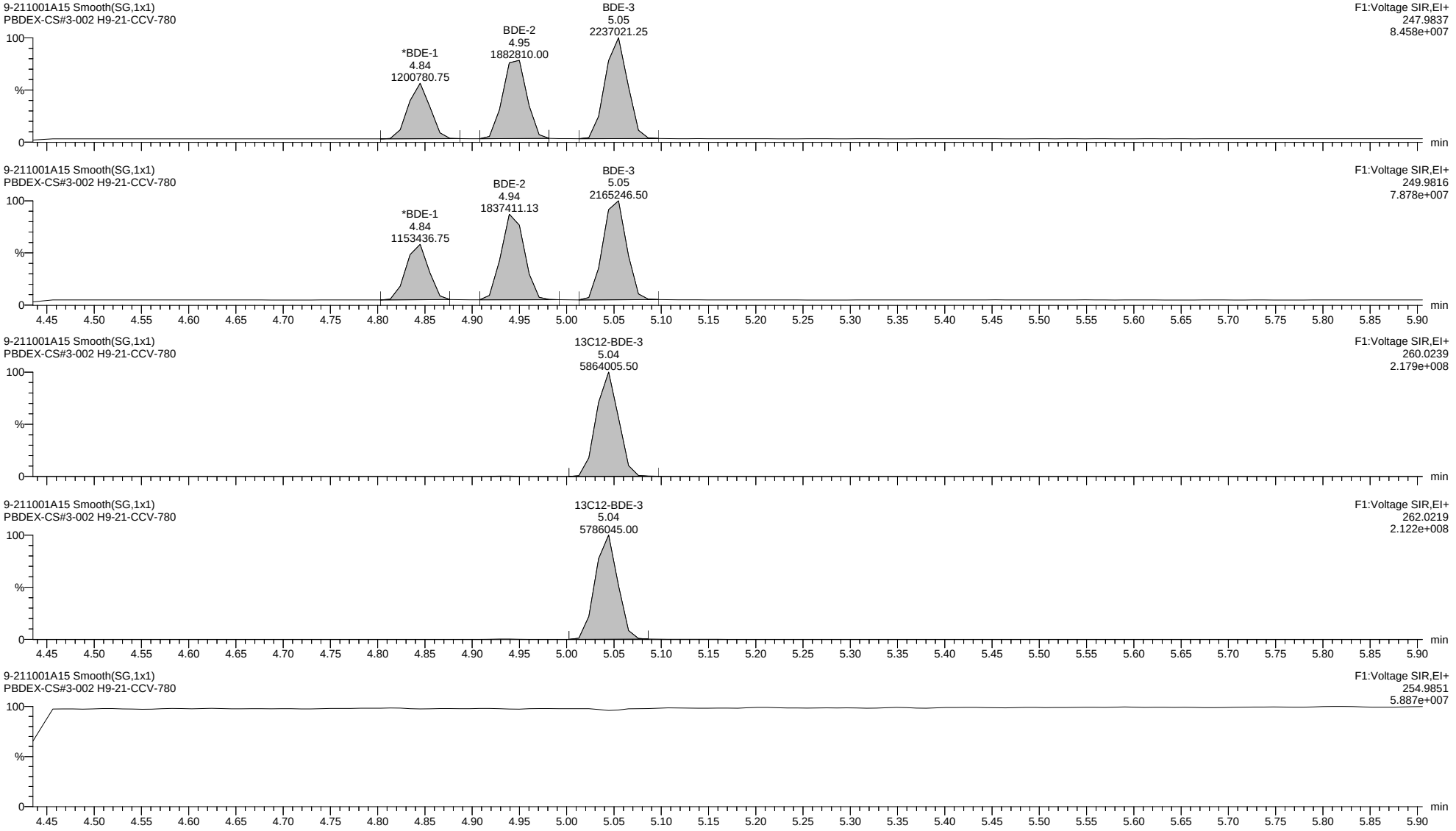
Method: C:\MassLynx\PBDE.PRO\Methods\PBDEX-DB5-1-210930B.mdb 01 Oct 2021 09:08:23
Calibration: C:\MassLynx\PBDE.PRO\CurveDB\9-210930B-PBDEX-ICAL.cdb 01 Oct 2021 09:18:22

Name: 9-211001A15, Date: 01-Oct-2021, Time: 22:16:06, ID: H9-21-CCV-780, Description: PBDEX-CS#3-002, Vial: Tray1:40



Quantify Sample Template Report **MassLynx MassLynx V4.1 SCN 901**

Dataset: I:\Organics Instrument\HIGHRES GCMS Completed Results Files\HR-9\2110\9-211001A2-LCS.qld

Last Altered: Thursday, November 18, 2021 11:17:55 Eastern Standard Time
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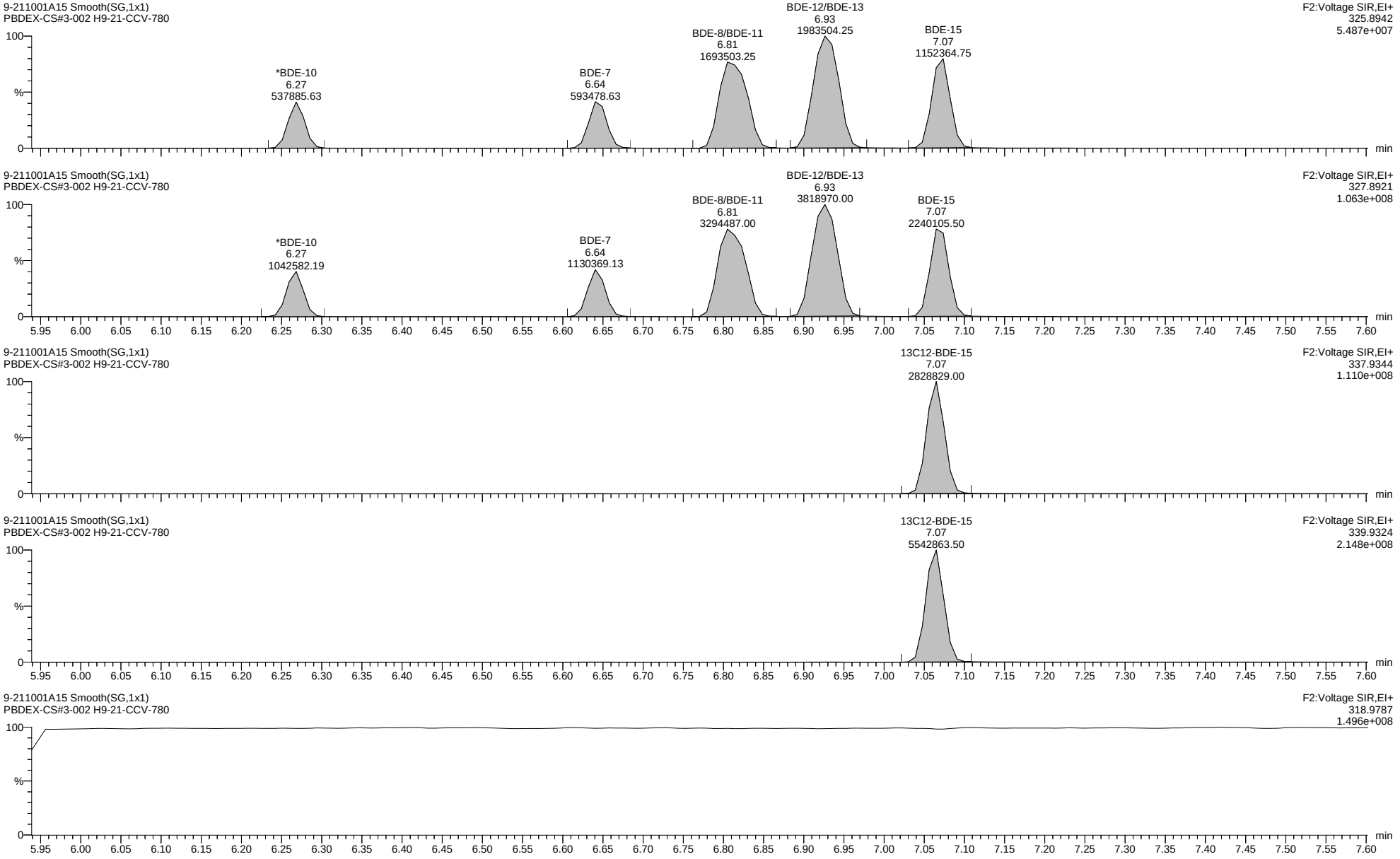
Name: 9-211001A15, Date: 01-Oct-2021, Time: 22:16:06, ID: H9-21-CCV-780, Description: PBDEX-CS#3-002, Vial: Tray1:40



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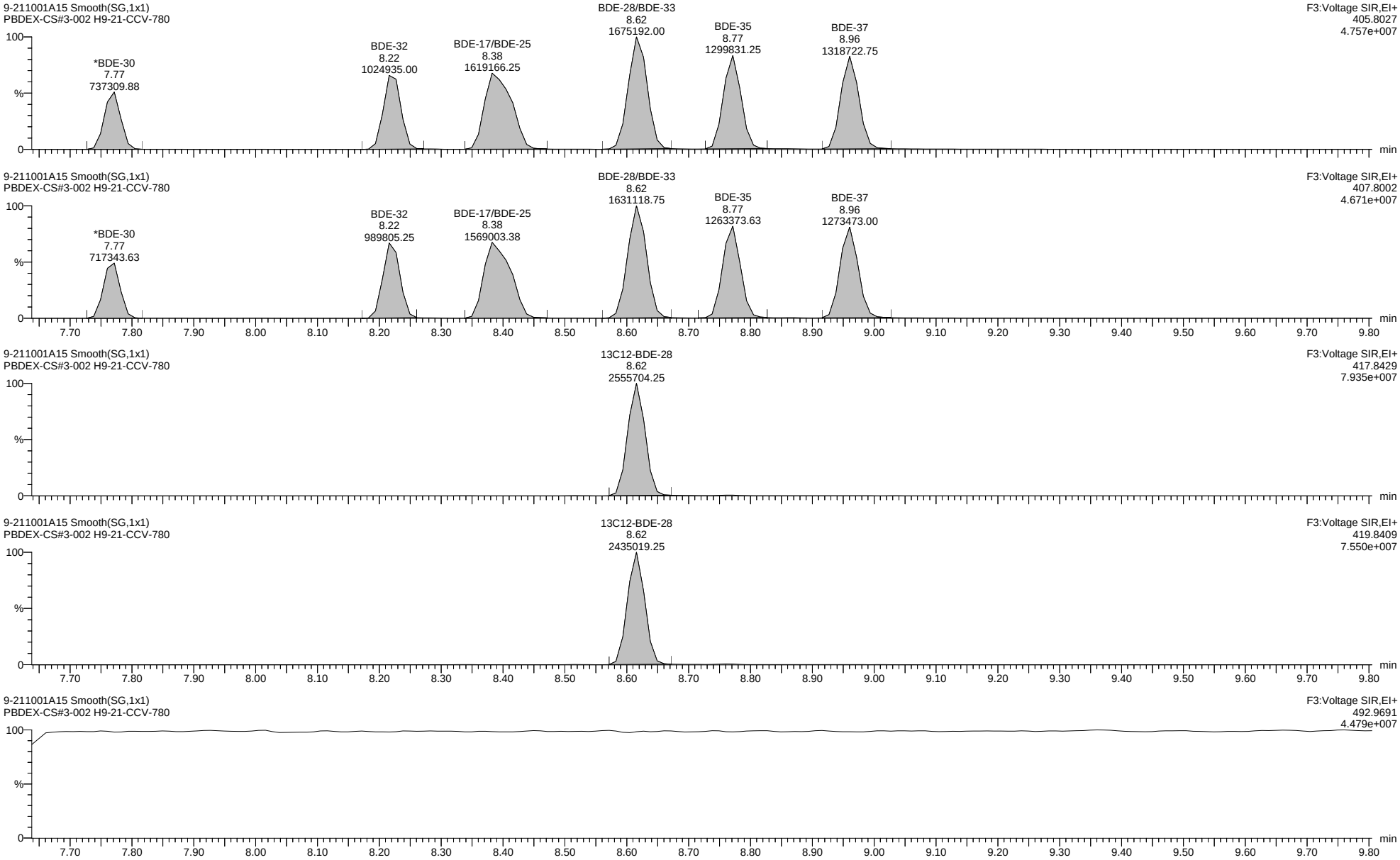

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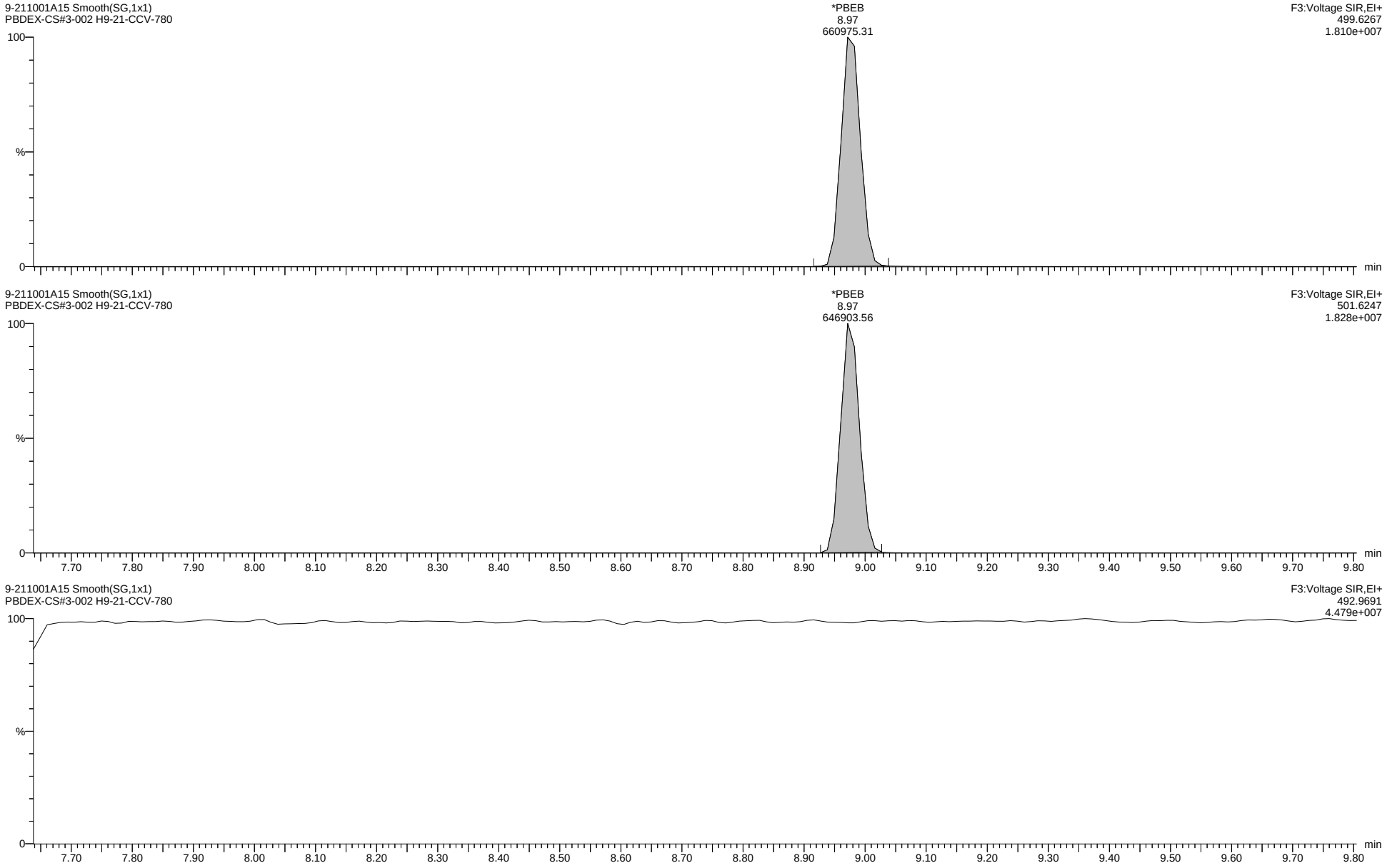

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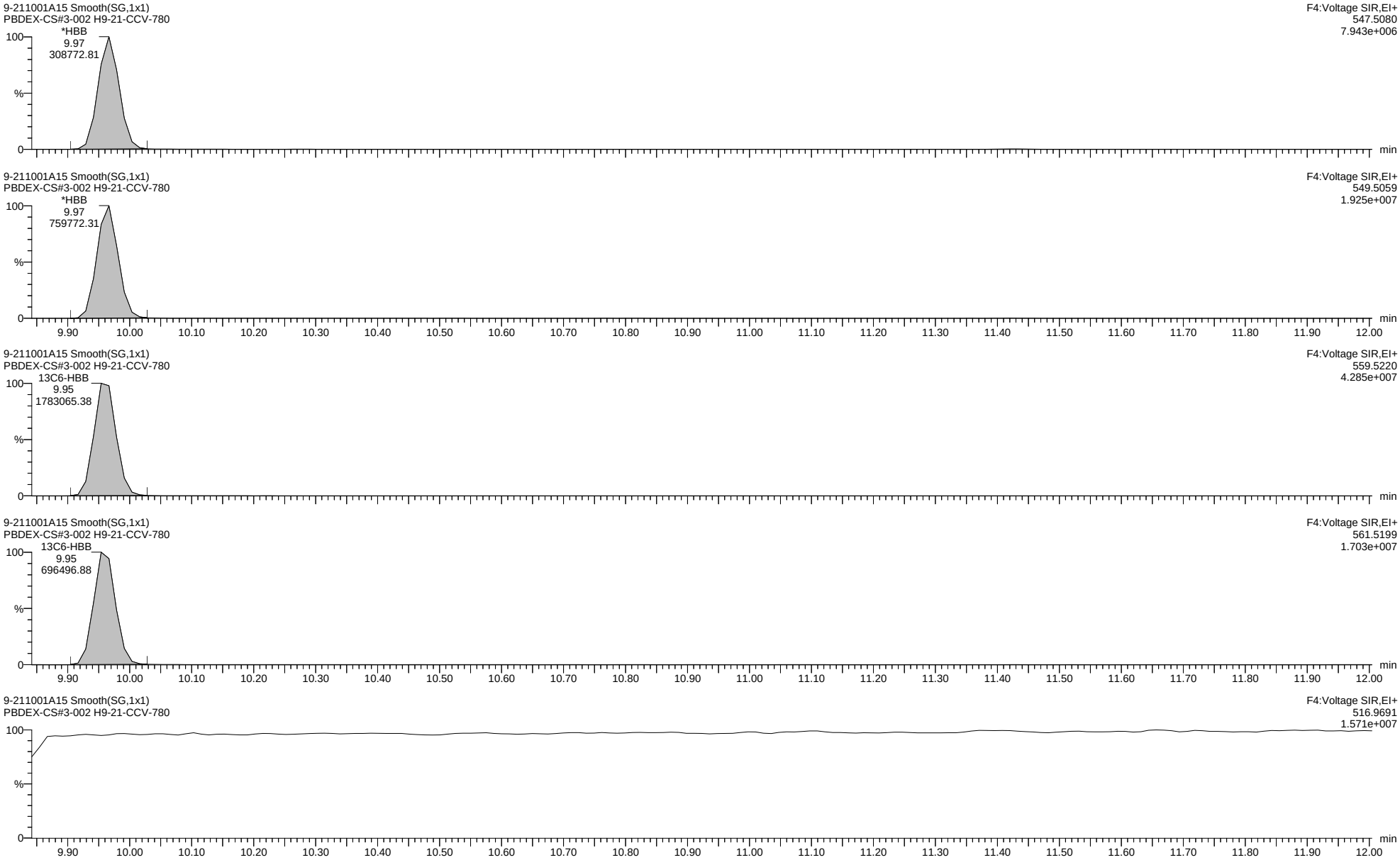

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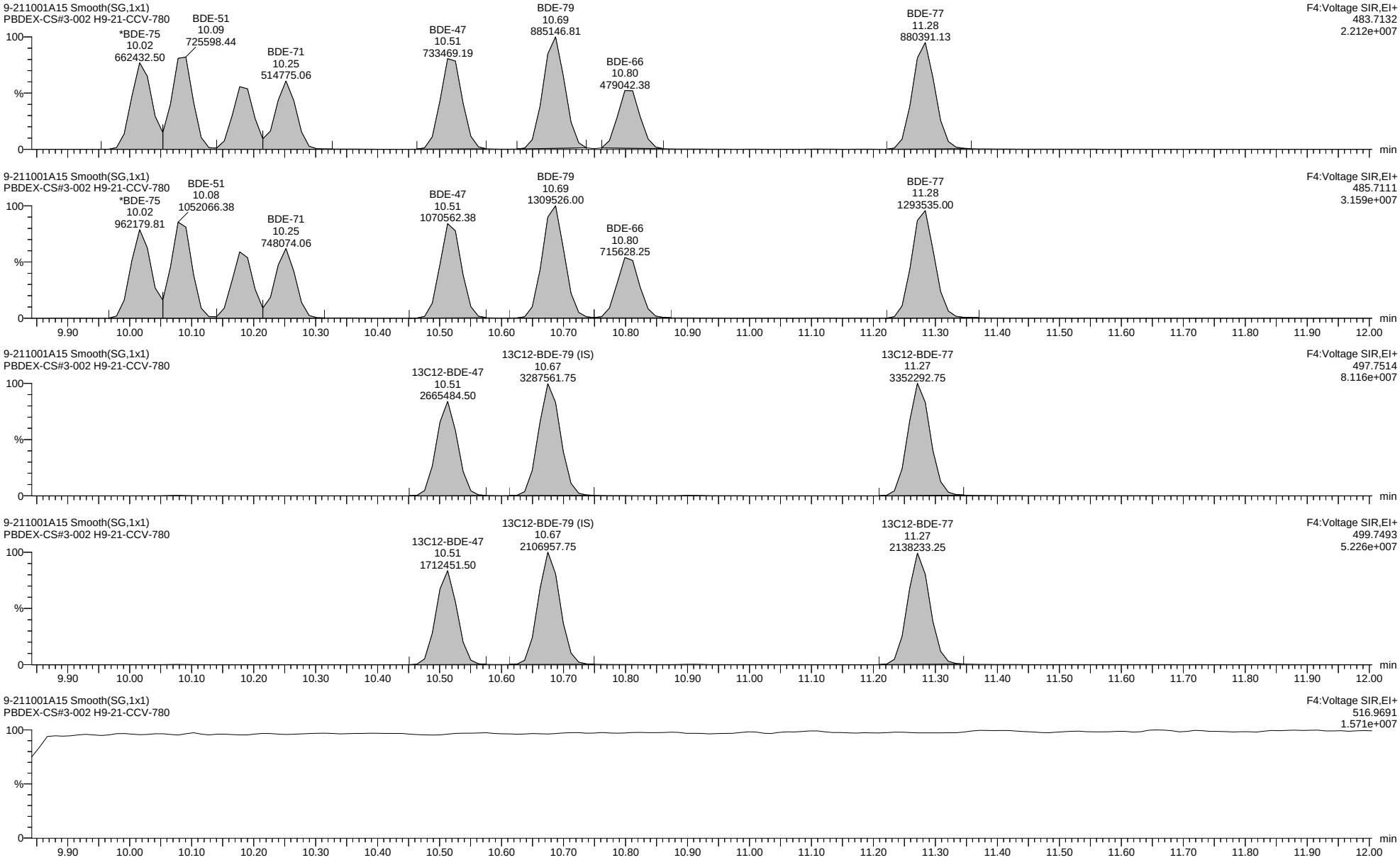

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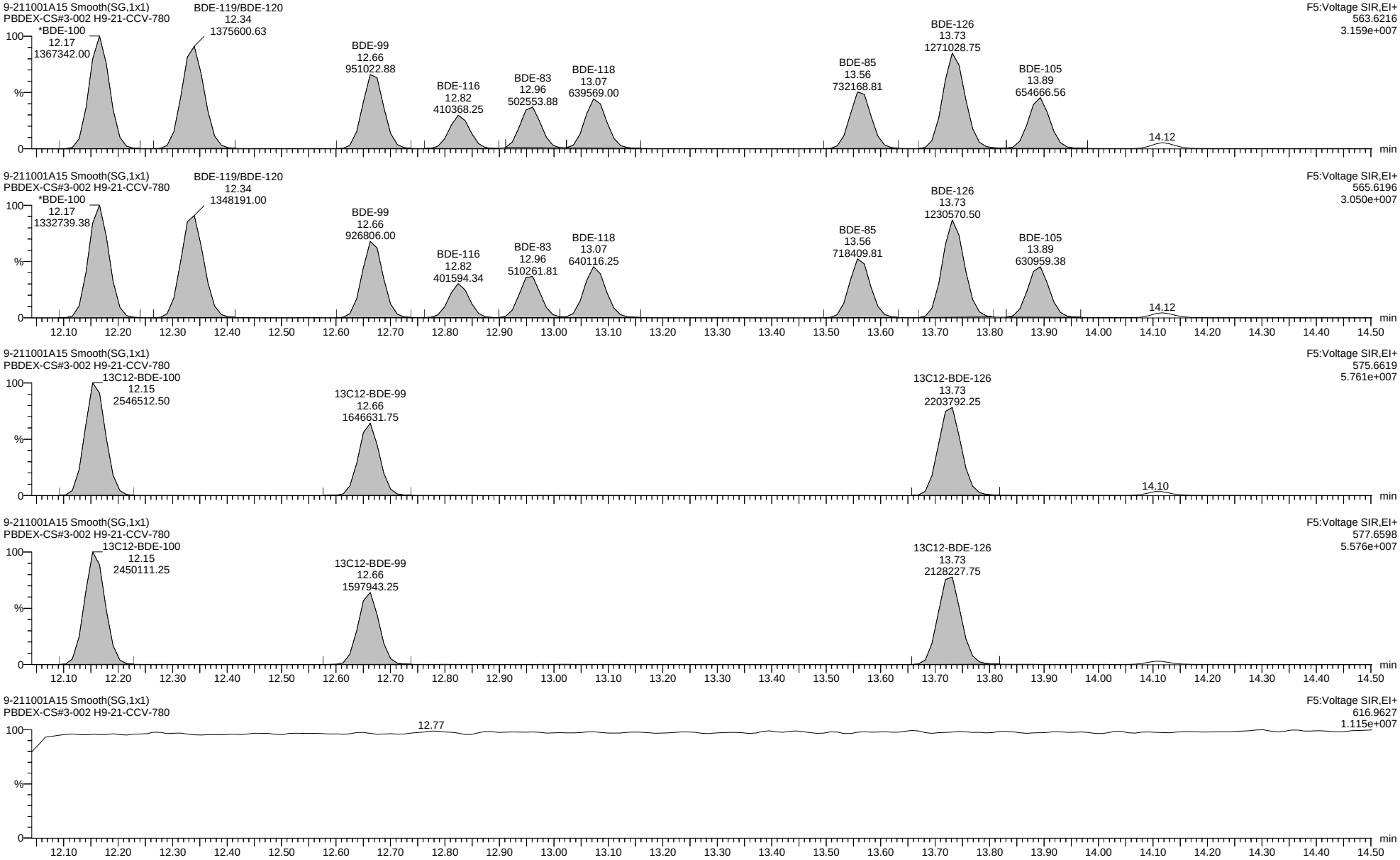

Quantify Sample Template Report **MassLynx MassLynx V4.1 SCN 901**

Dataset: I:\Organics Instrument\HIGHRES GCMS Completed Results Files\HR-9\2110\9-211001A2-LCS.qld

Last Altered: Thursday, November 18, 2021 11:17:55 Eastern Standard Time
Printed: Thursday, November 18, 2021 11:20:20 Eastern Standard Time

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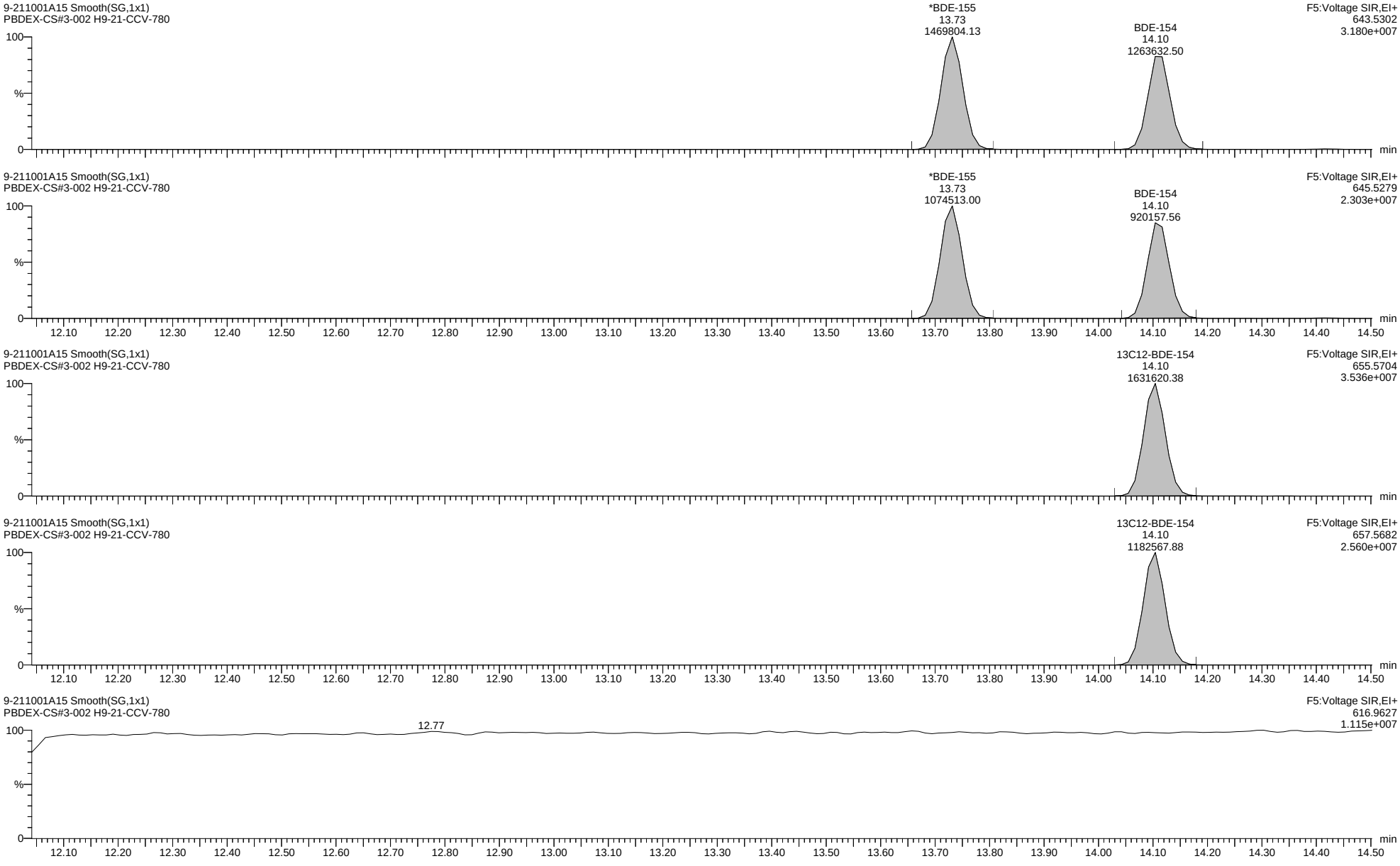

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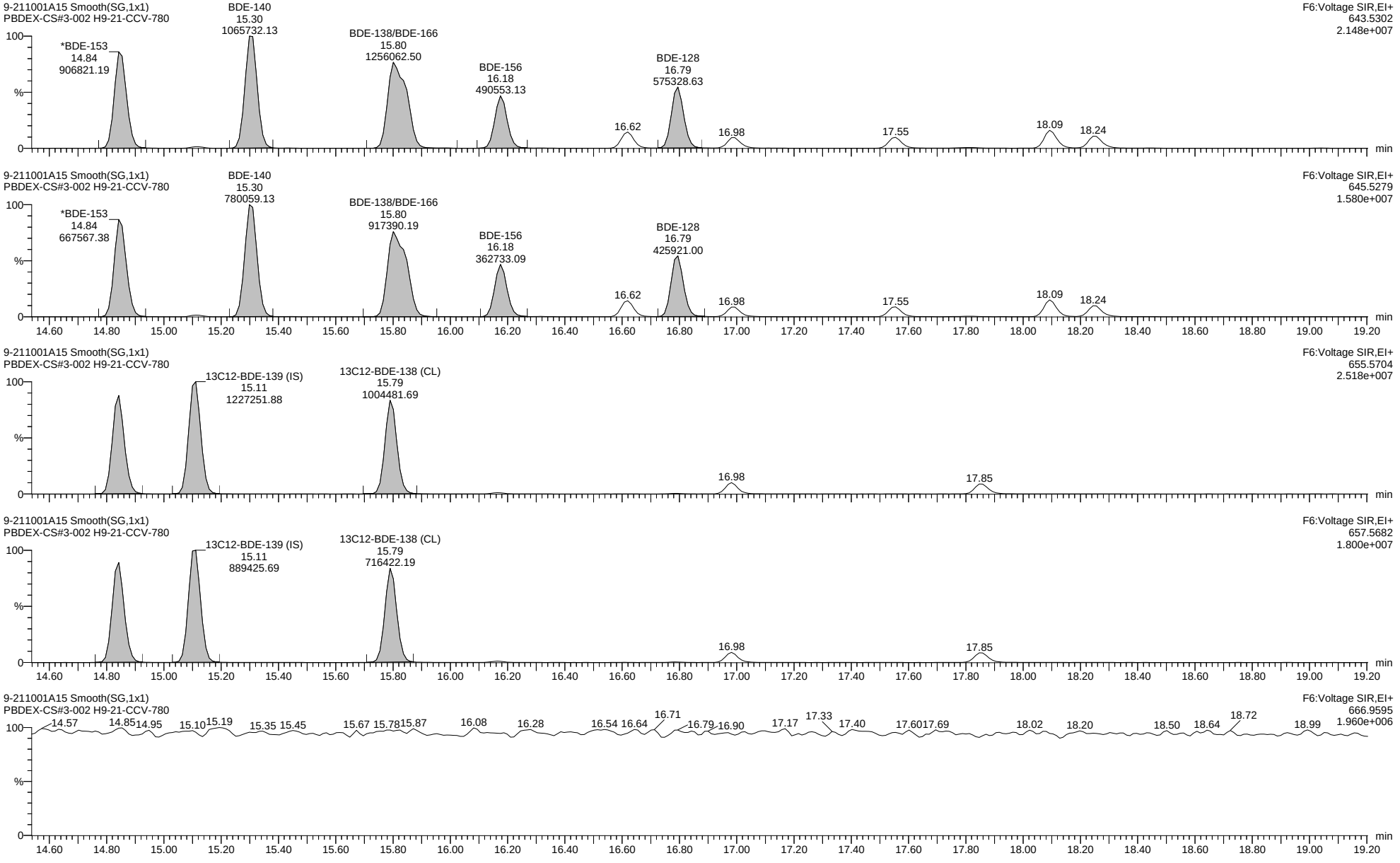

Quantify Sample Template Report **MassLynx MassLynx V4.1 SCN 901**

Dataset: I:\Organics Instrument\HIGHRES GCMS Completed Results Files\HR-9\2110\9-211001A2-LCS.qld

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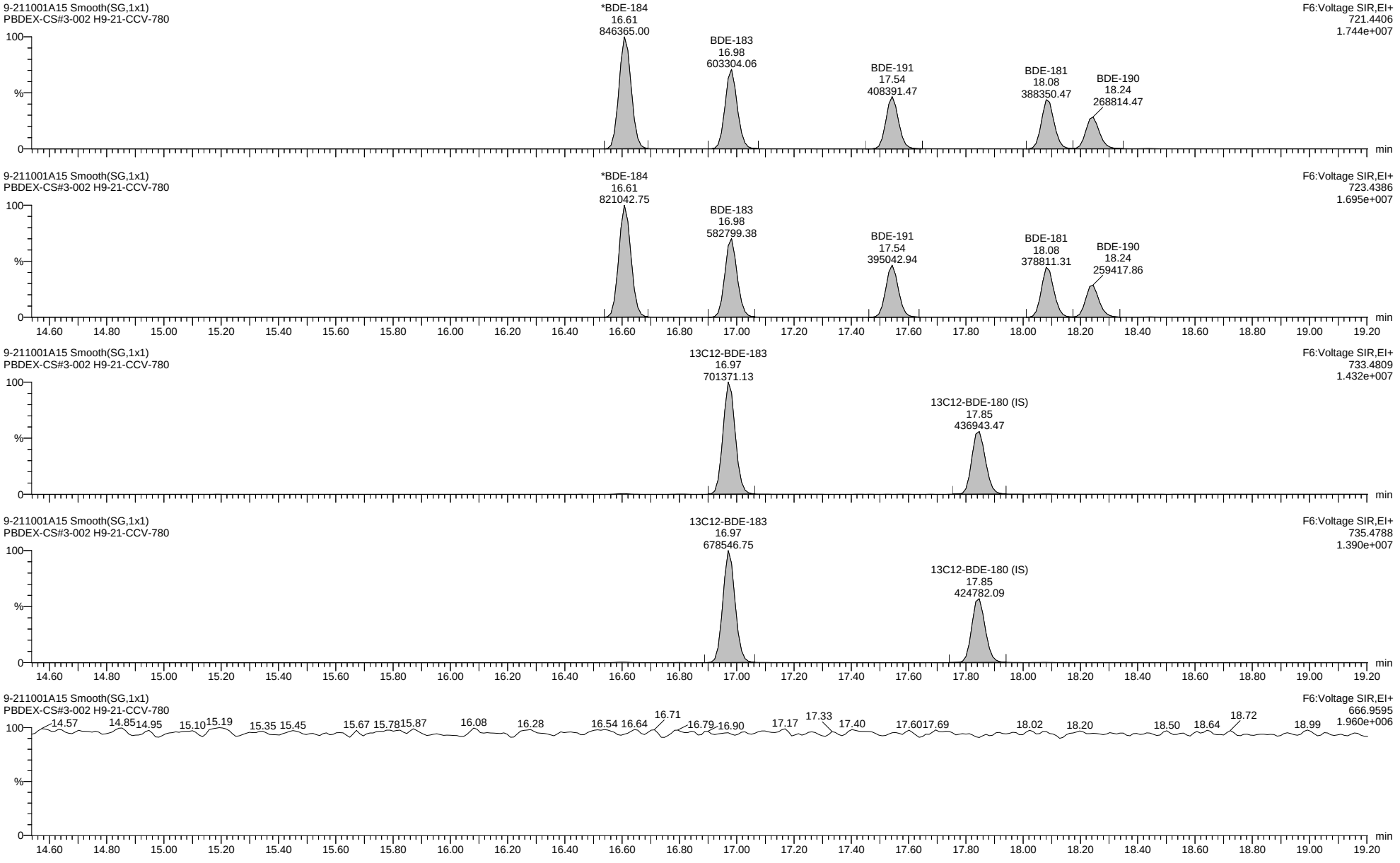

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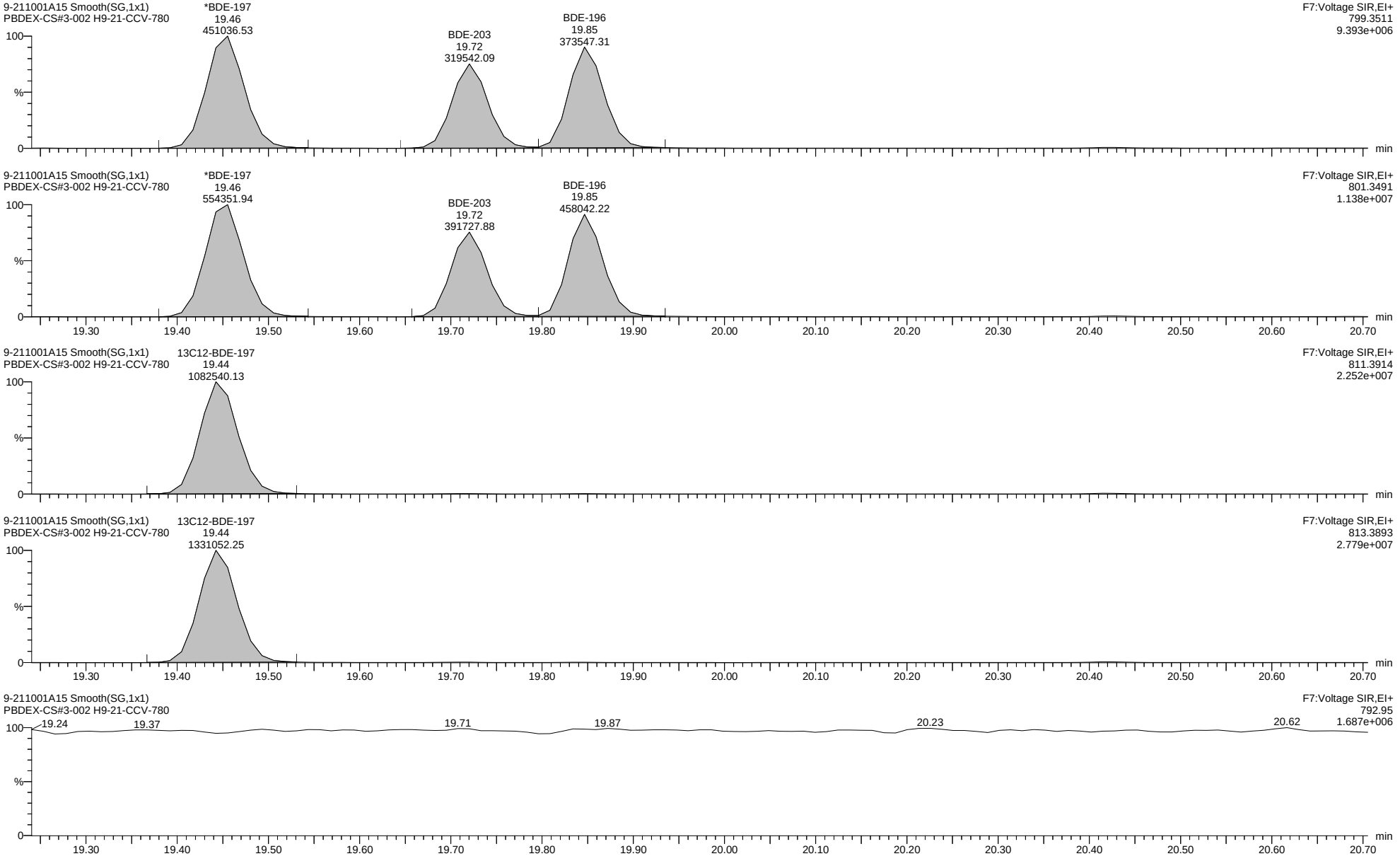

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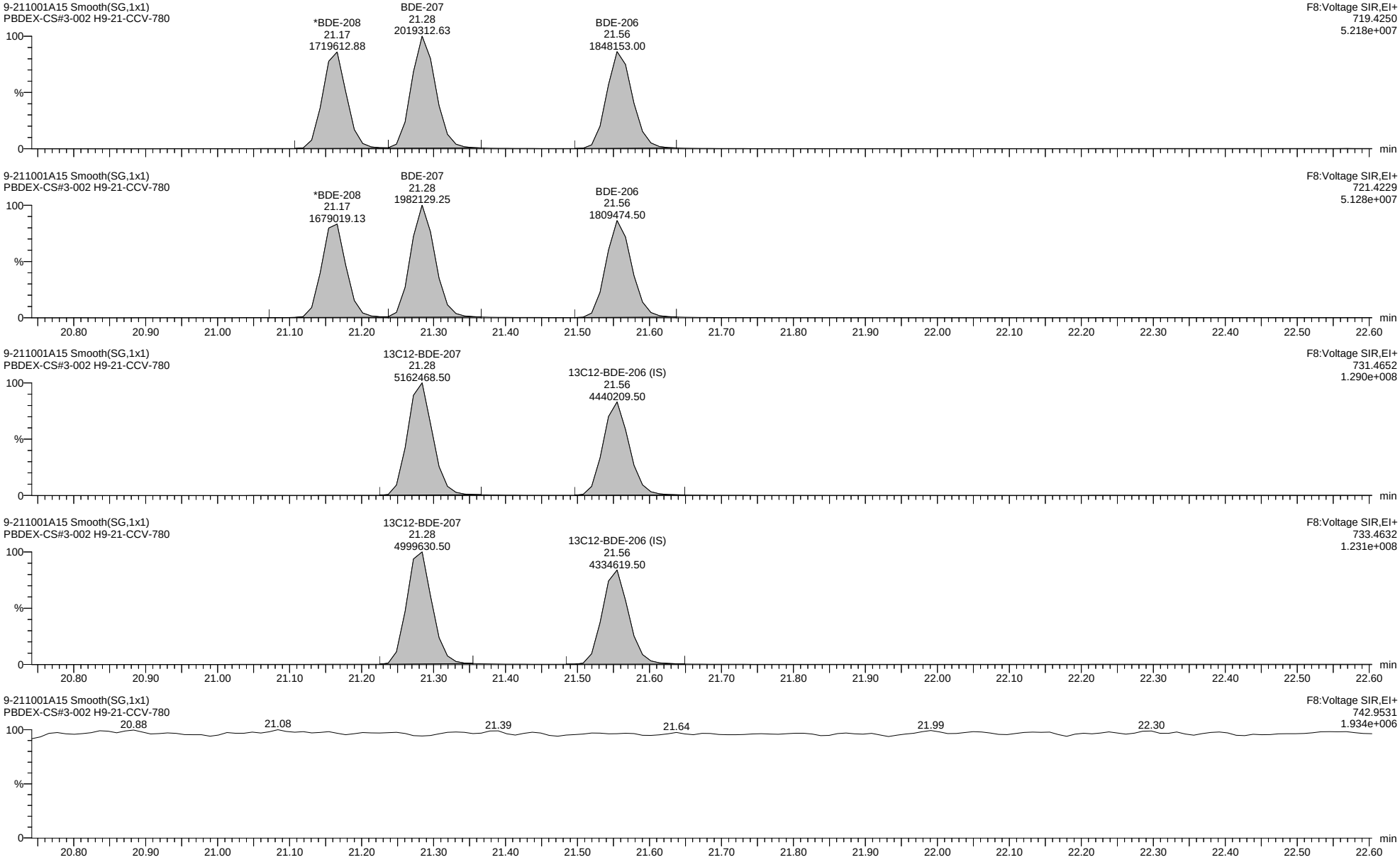

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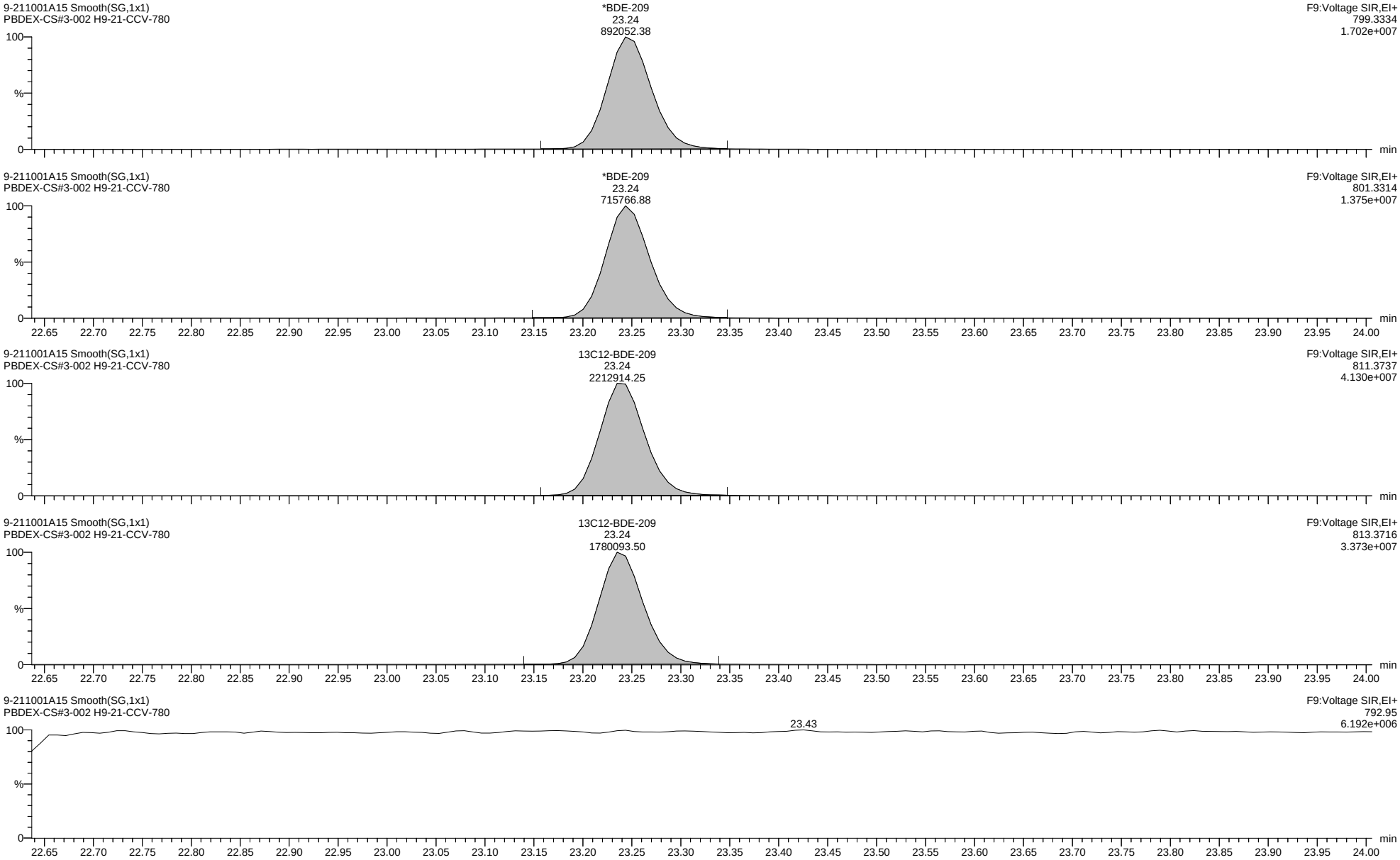

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Quantify Sample Template Report **MassLynx MassLynx V4.1 SCN 901**

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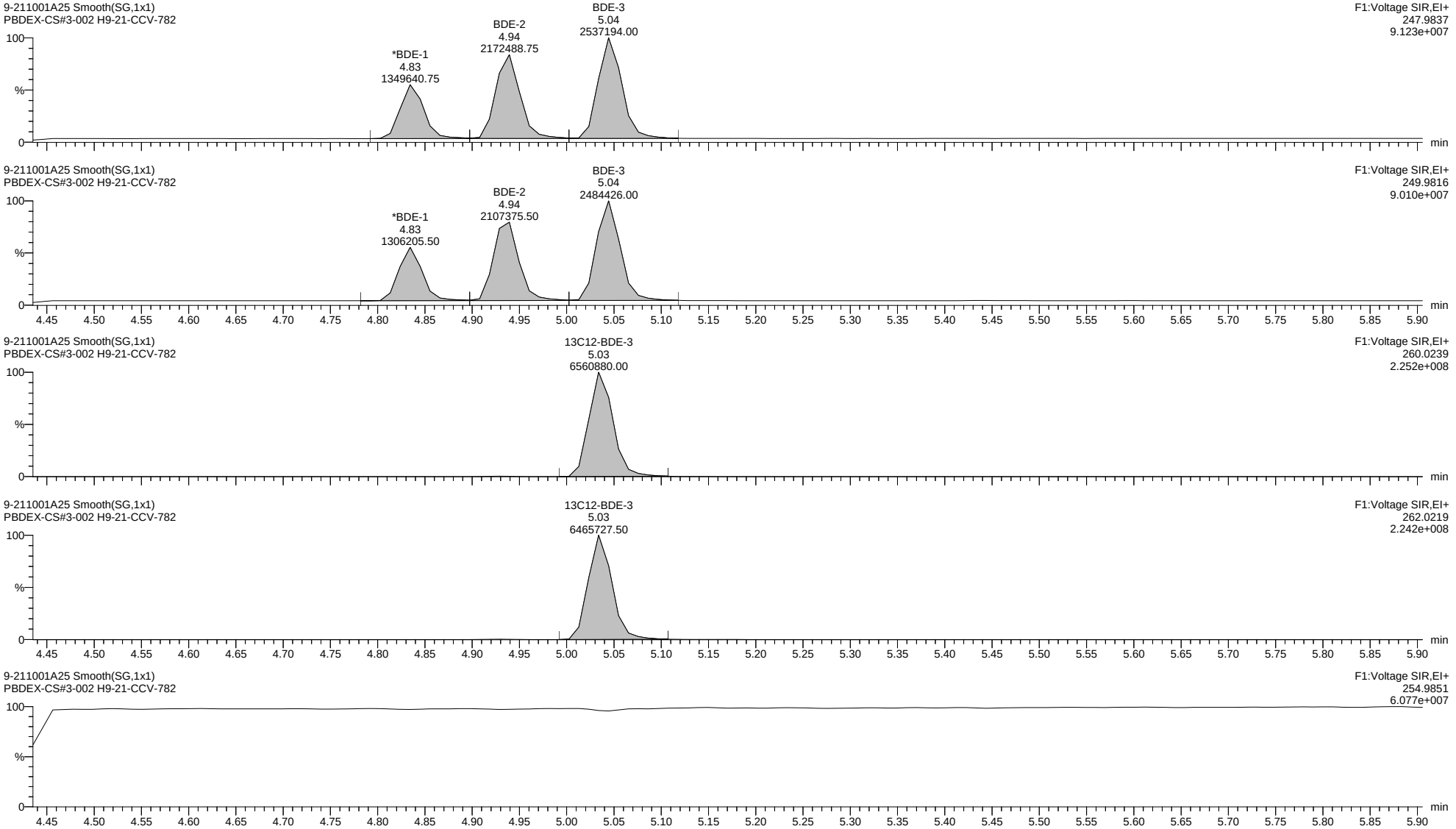
Name: 9-211001A25, Date: 02-Oct-2021, Time: 04:36:40, ID: H9-21-CCV-782, Description: PBDEX-CS#3-002, Vial: Tray1:40



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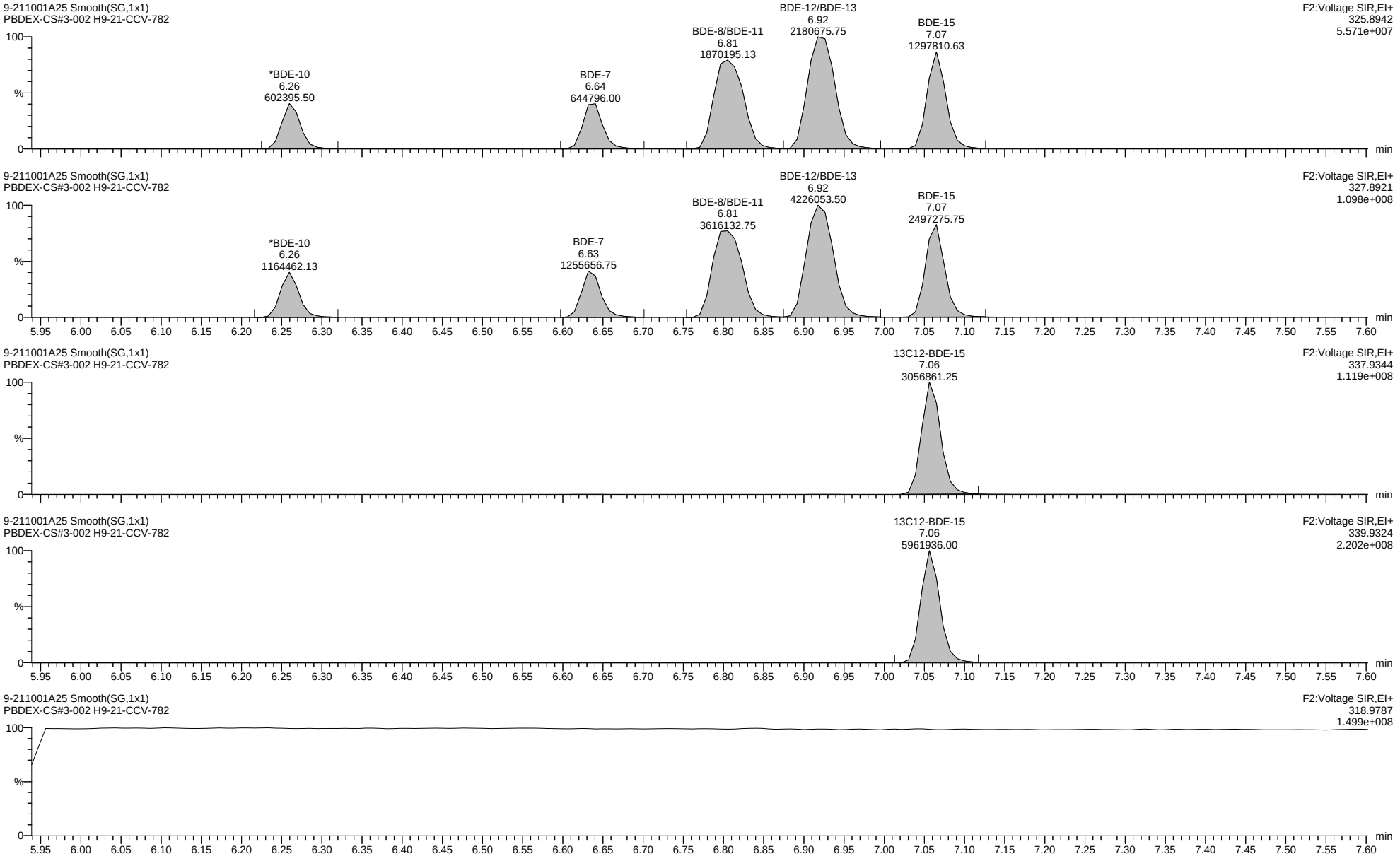

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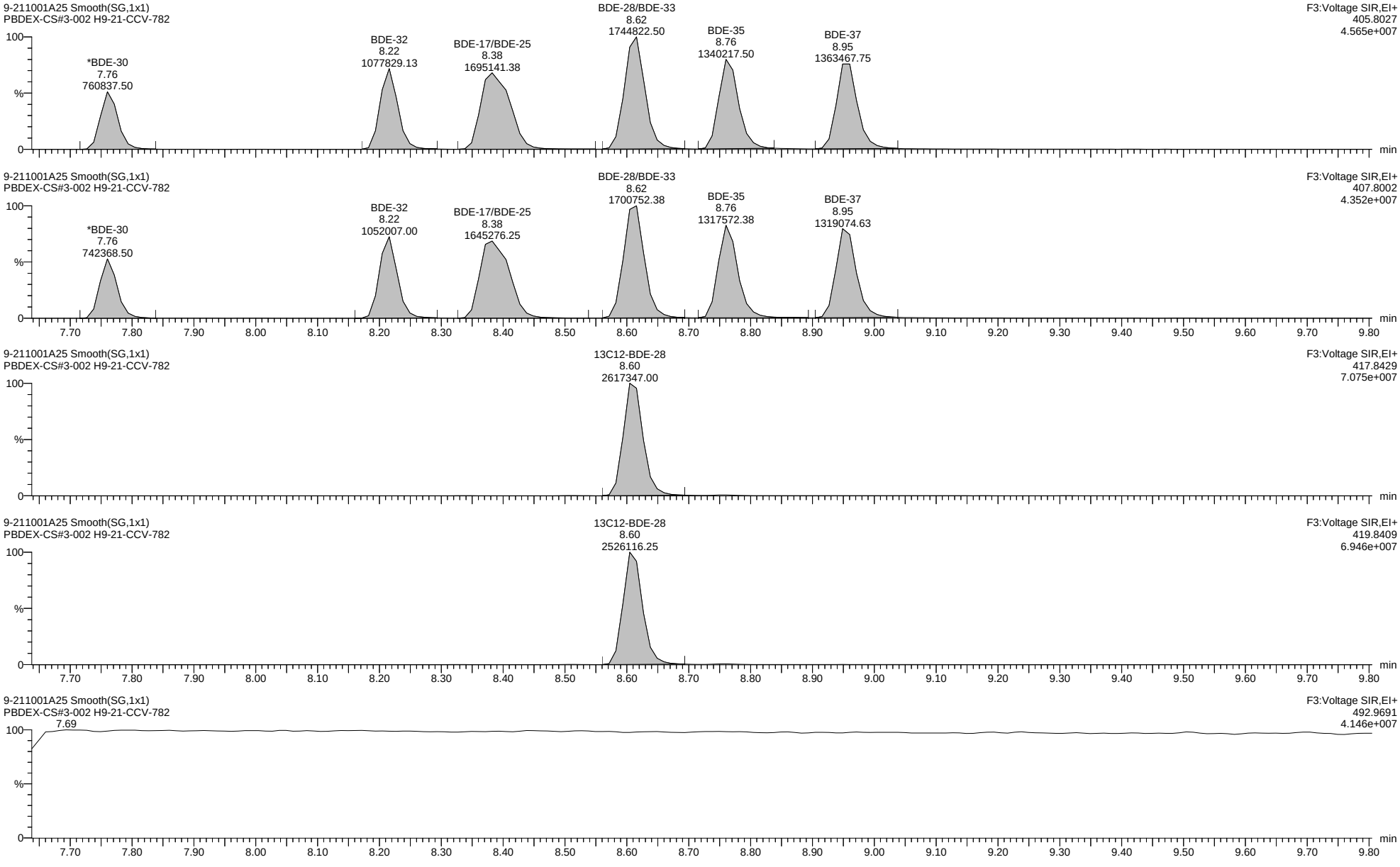

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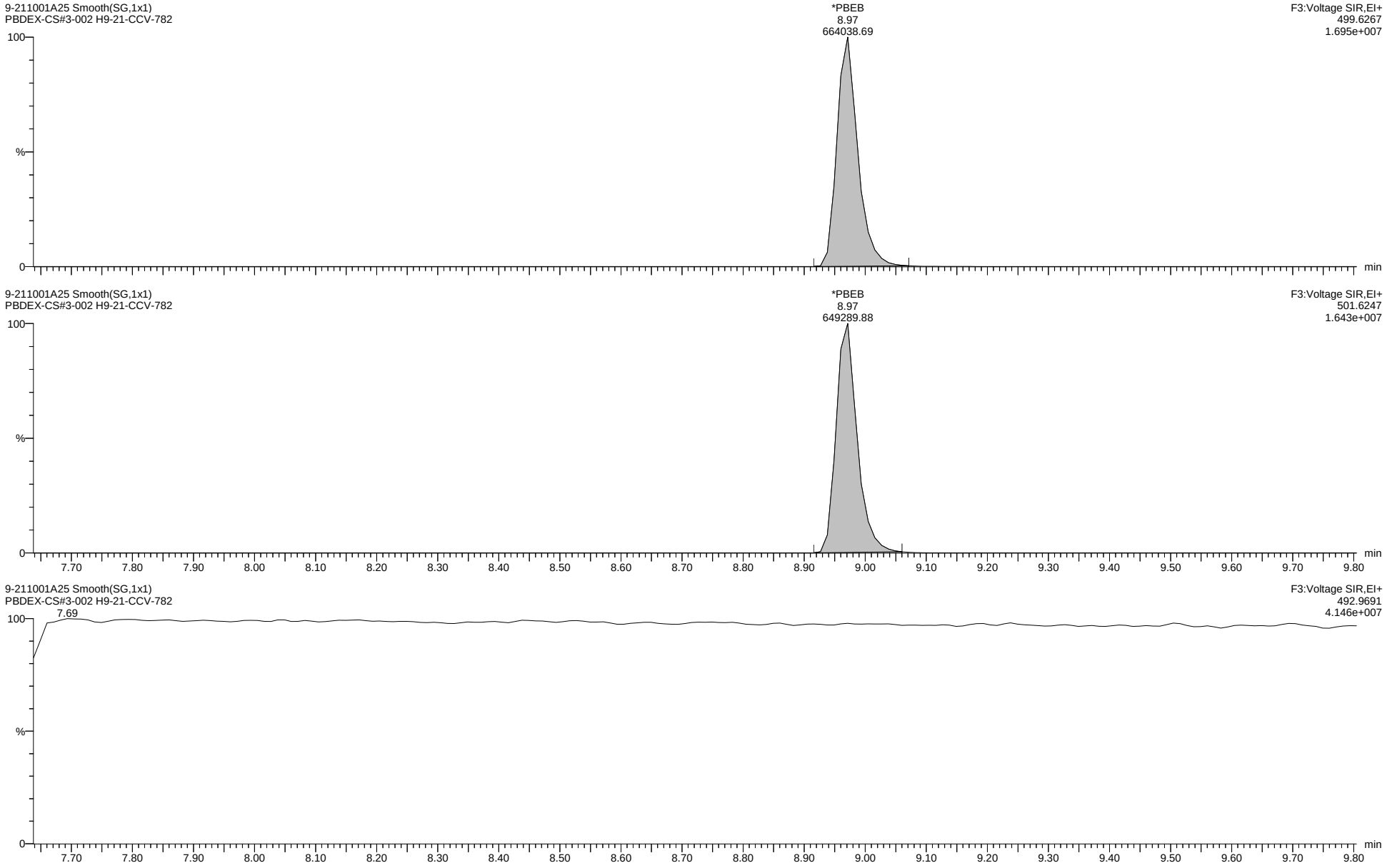

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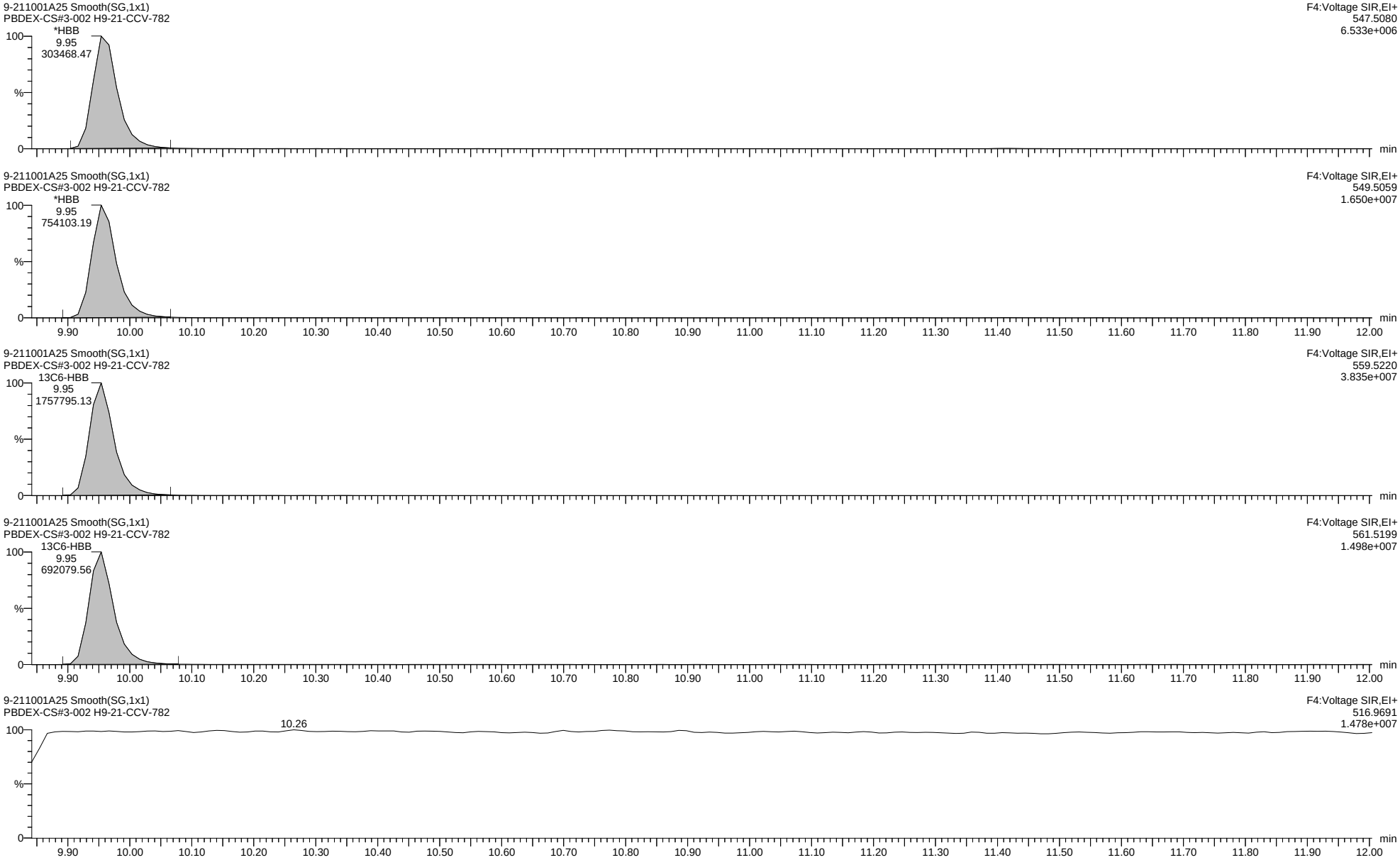

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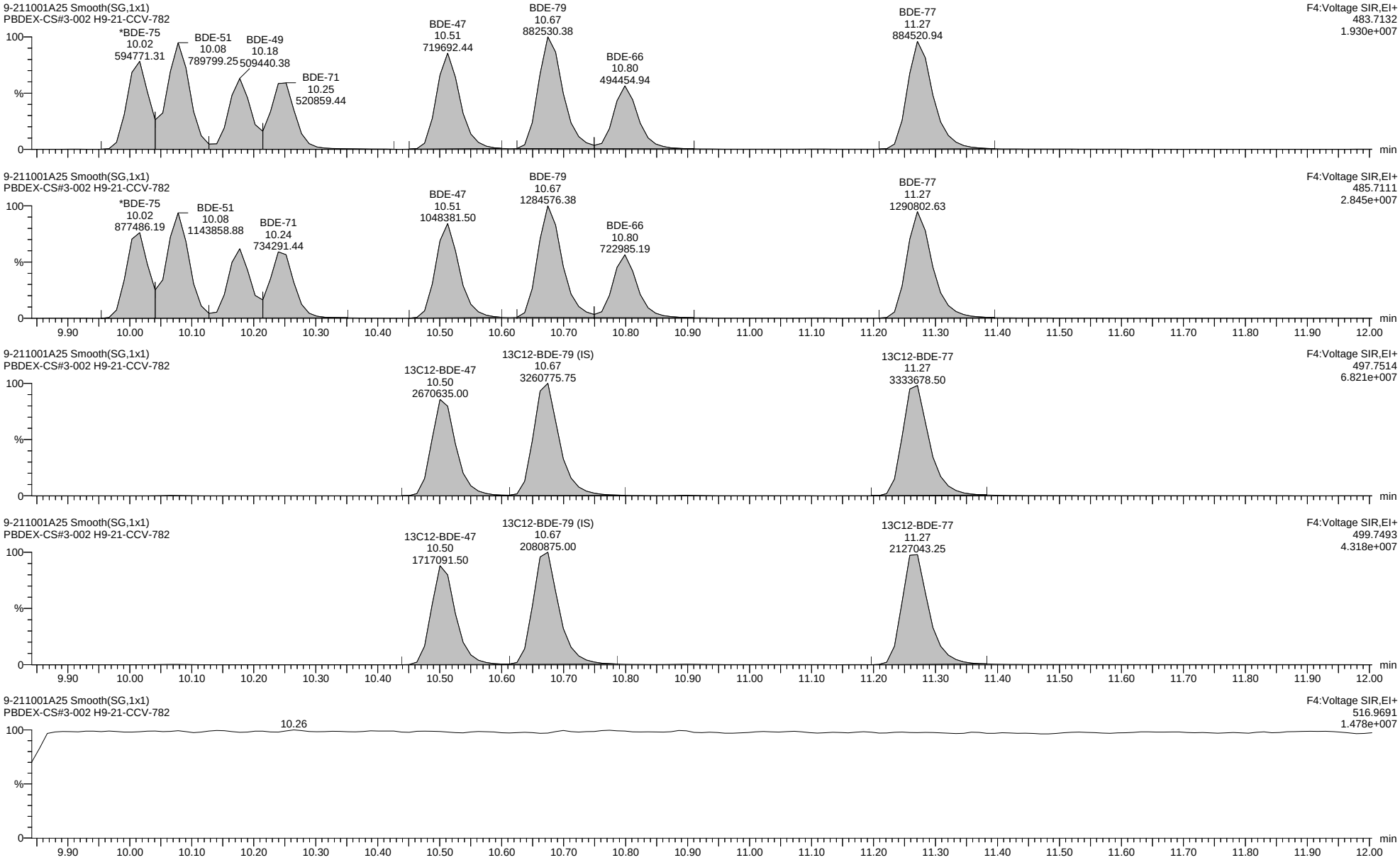

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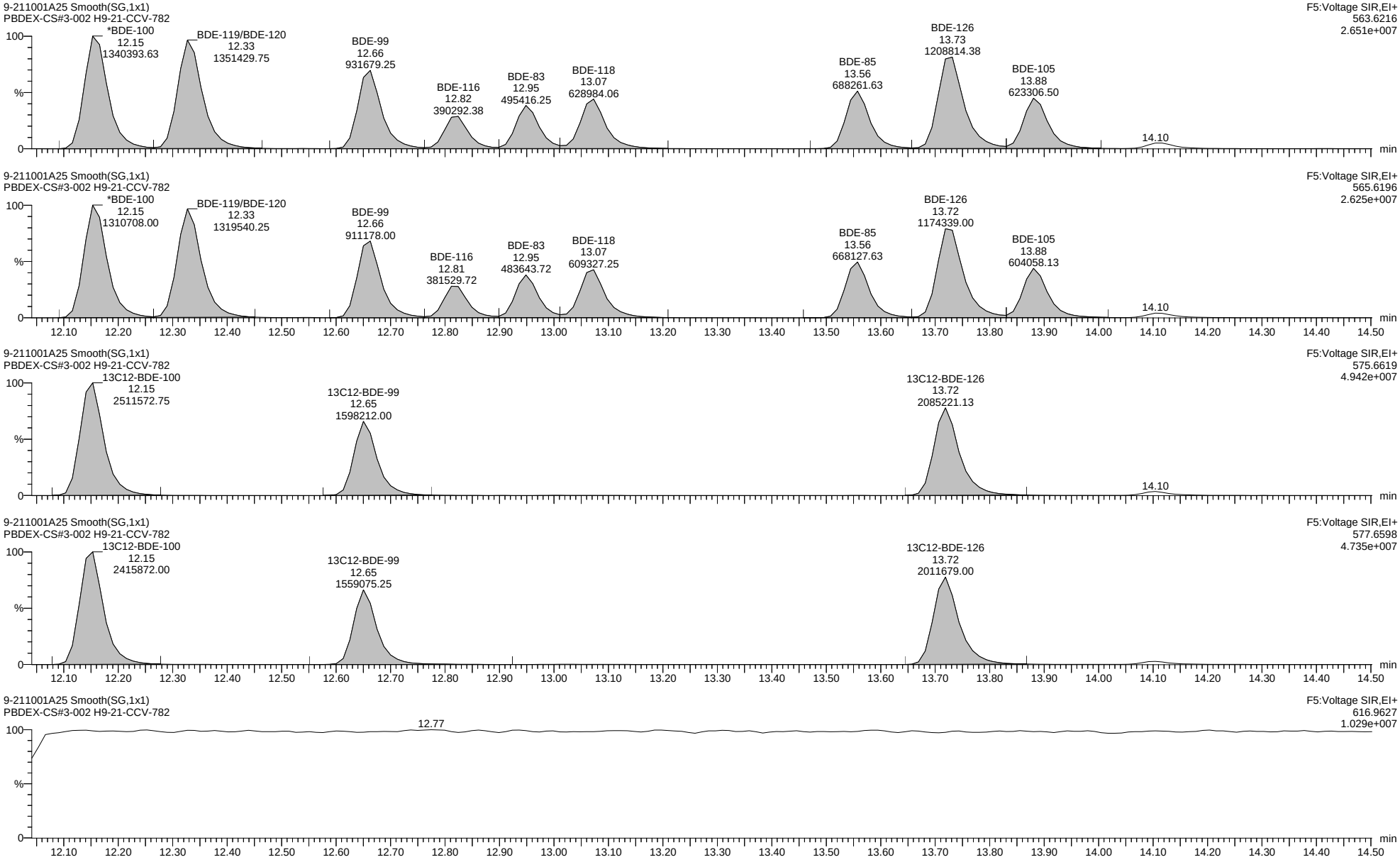

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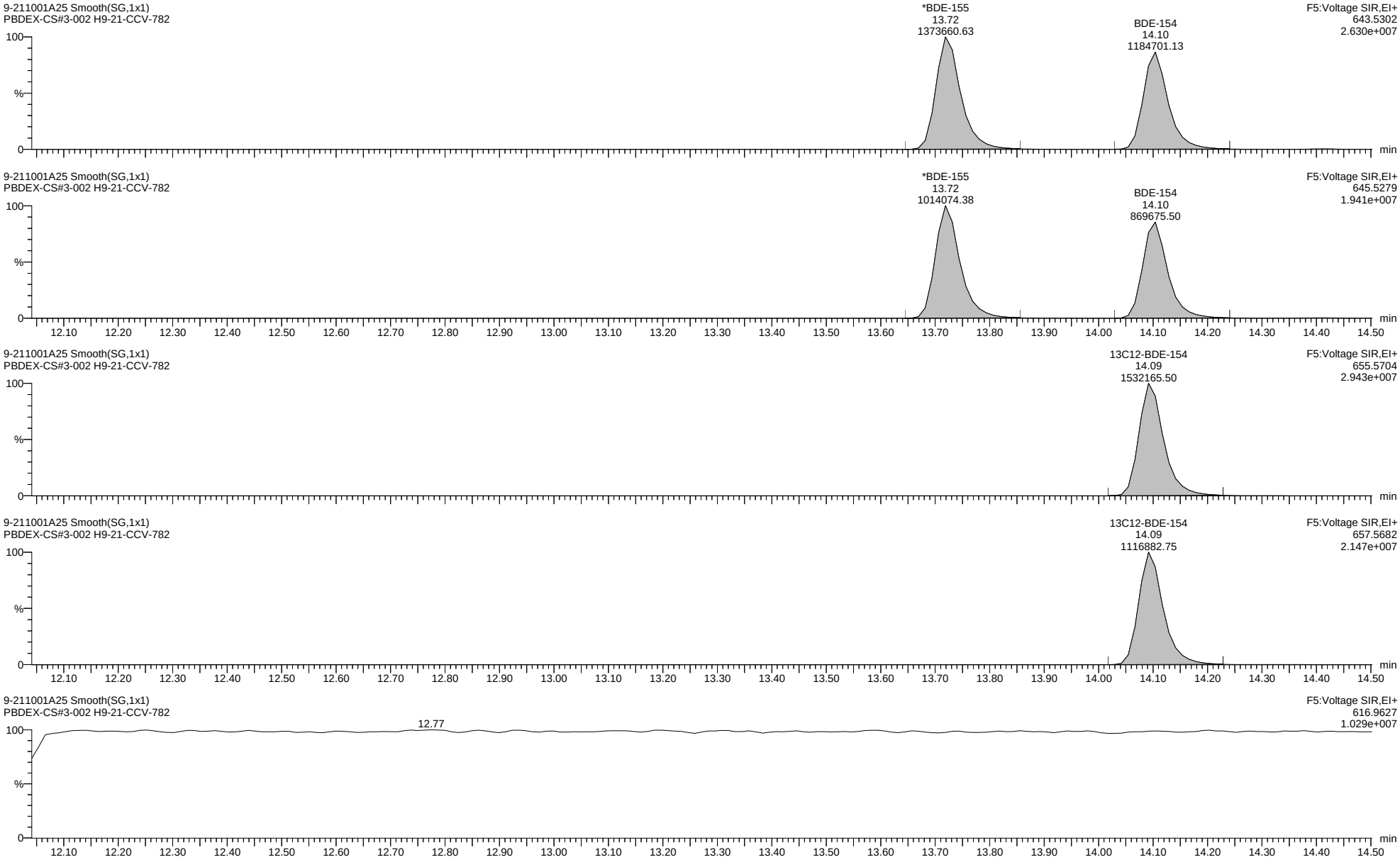

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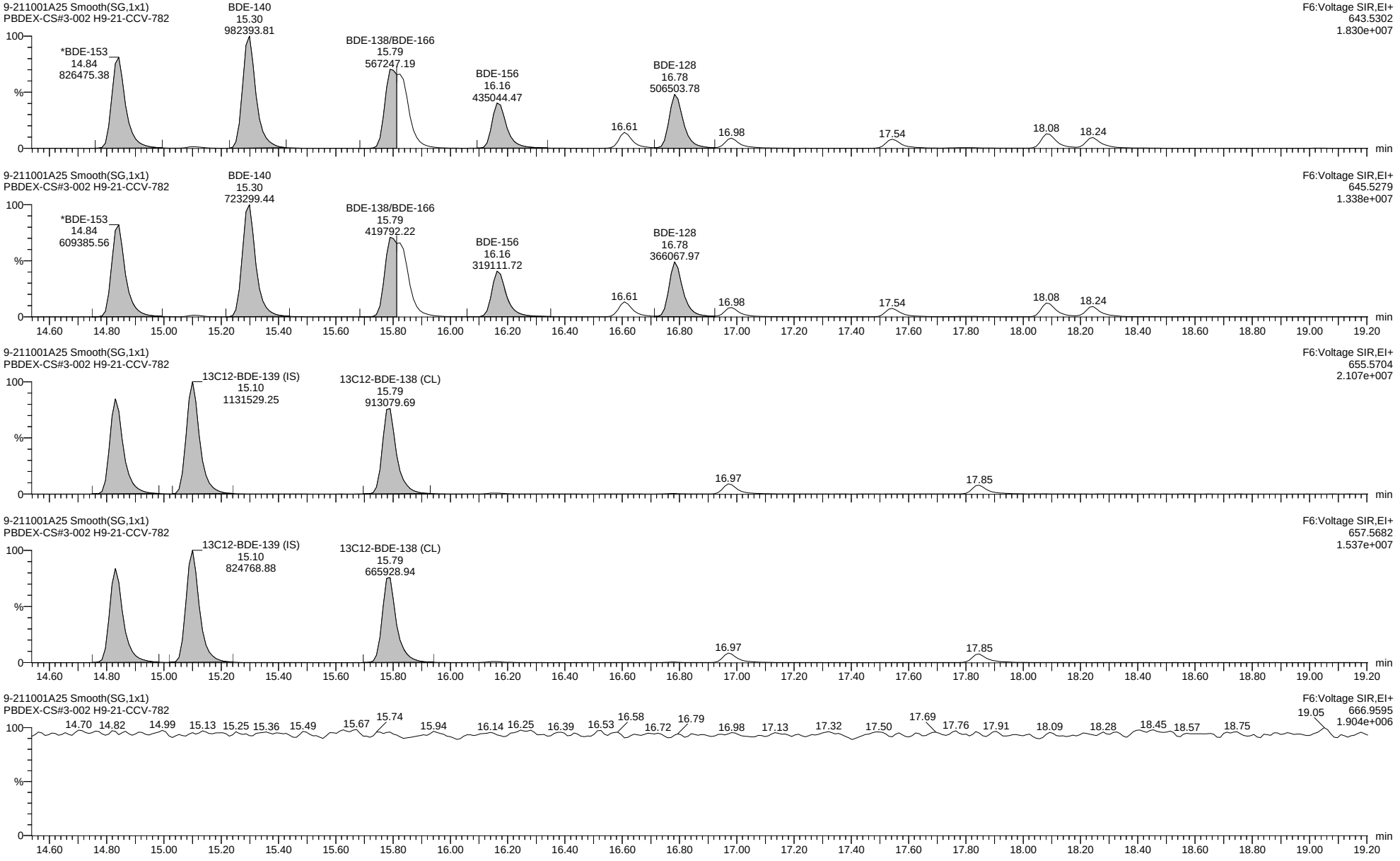

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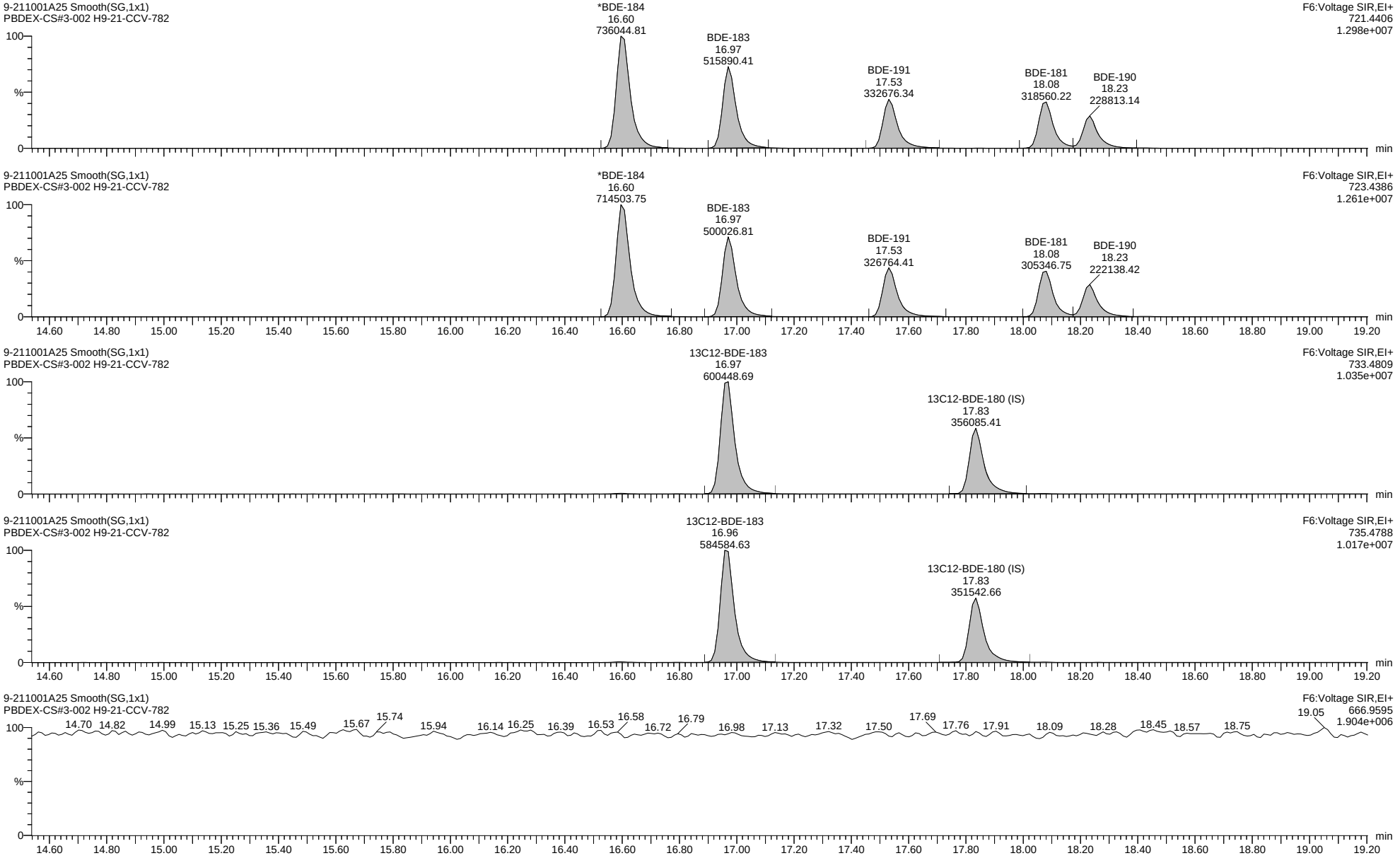

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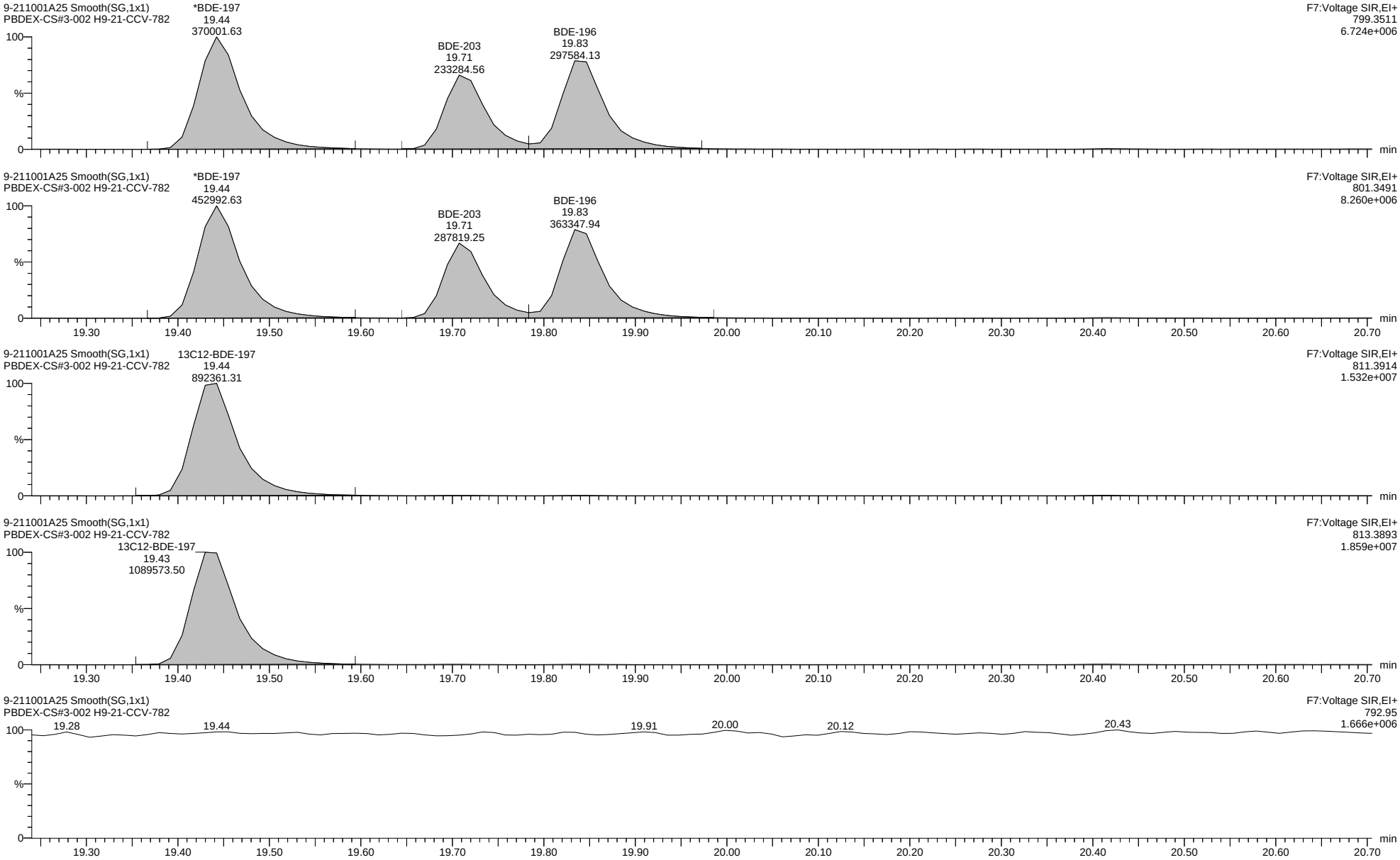

Quantify Sample Template Report **MassLynx MassLynx V4.1 SCN 901**

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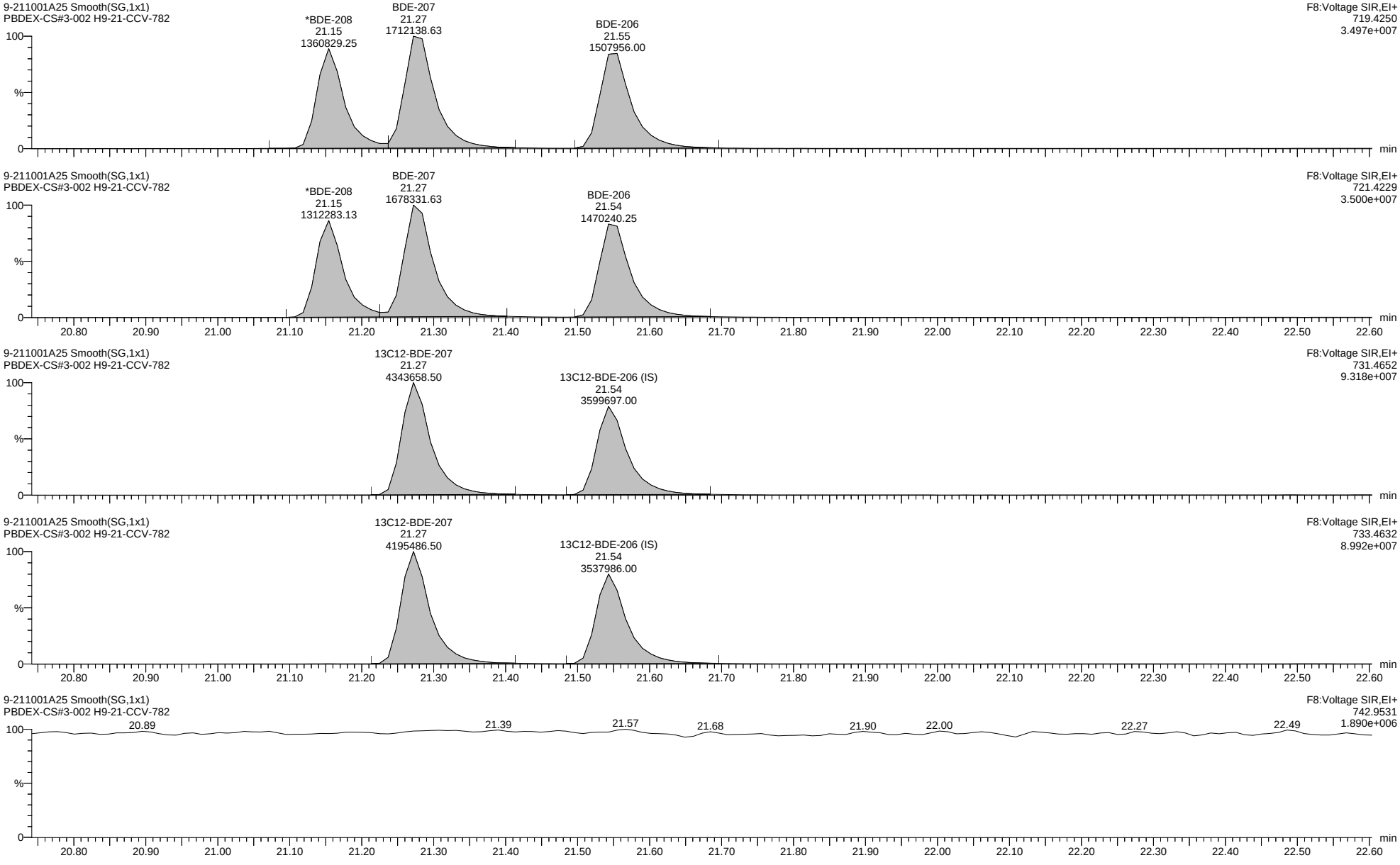

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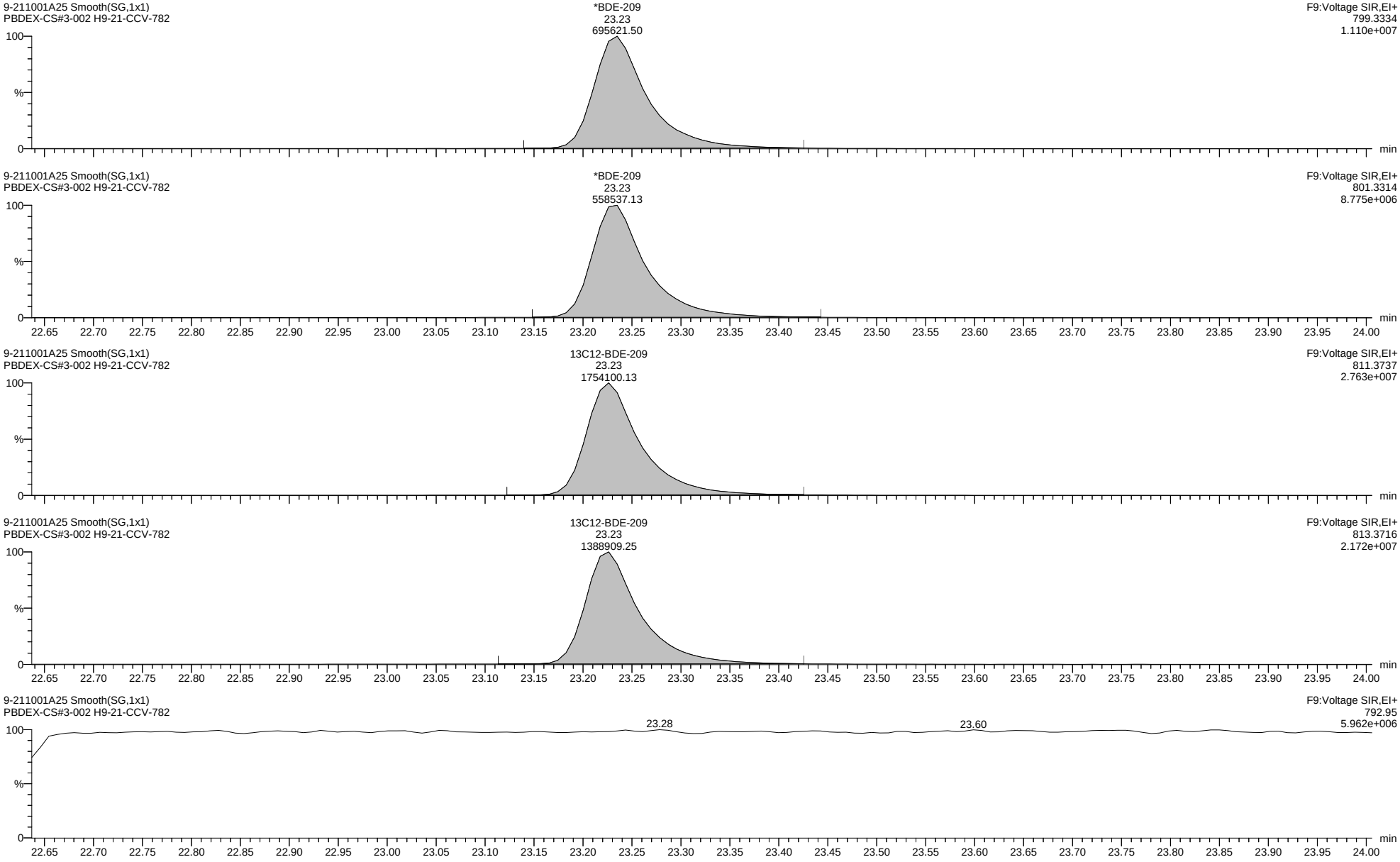

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Name: 9-211001A25, Date: 02-Oct-2021, Time: 04:36:40, ID: H9-21-CCV-782, Description: PBDEX-CS#3-002, Vial: Tray1:40

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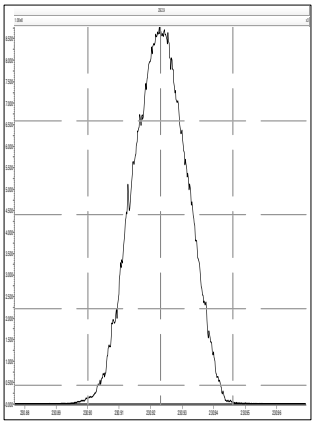

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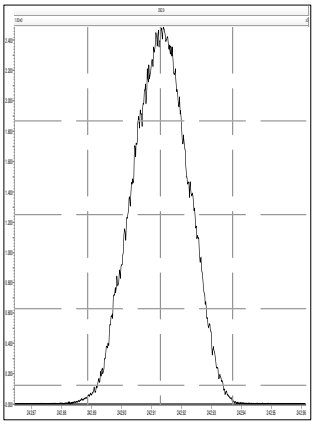

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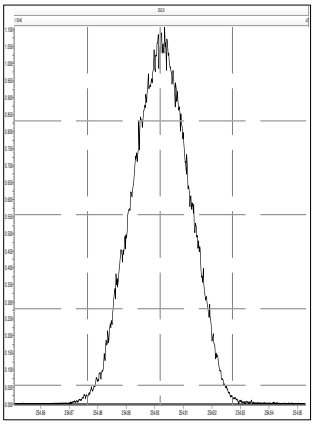

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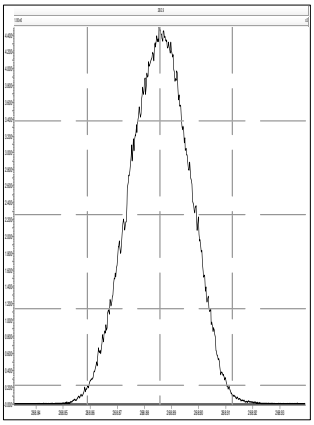

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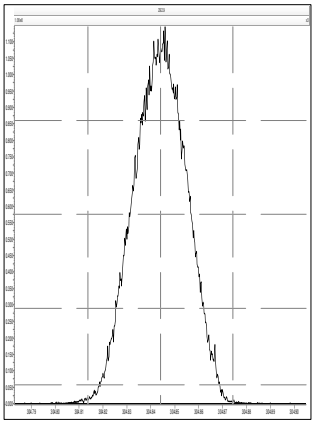

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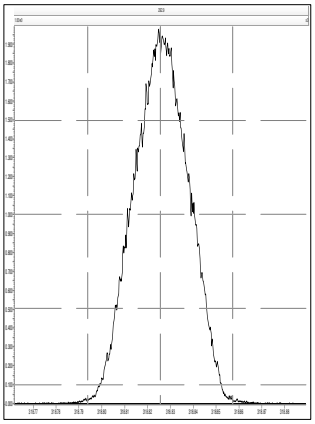

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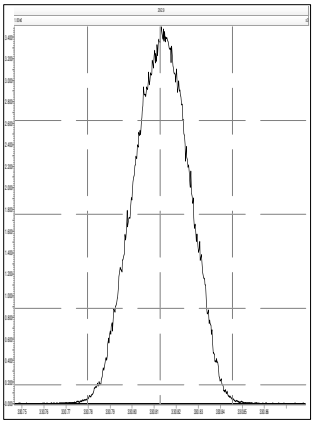

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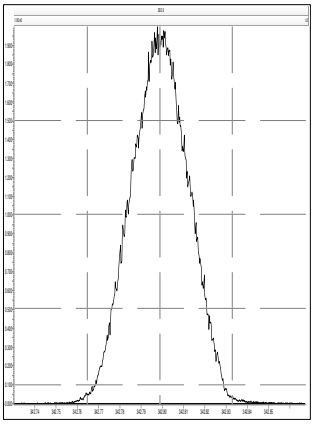

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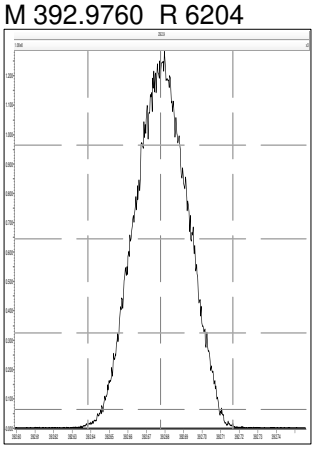

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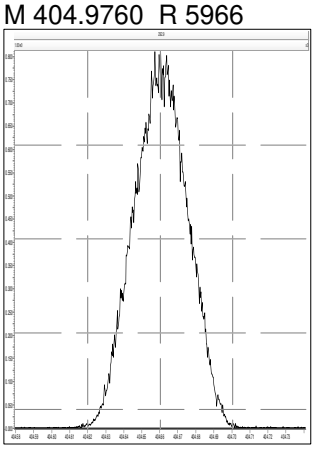

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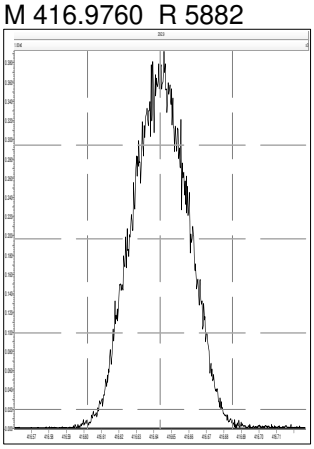

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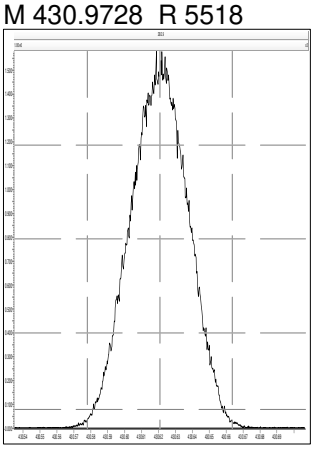

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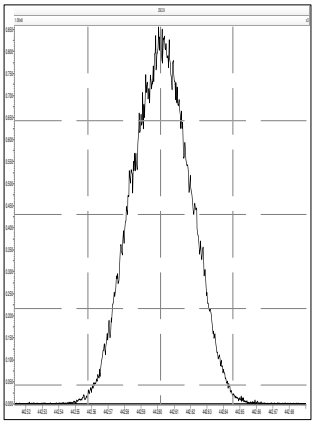

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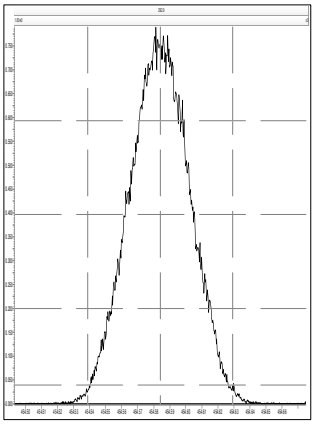

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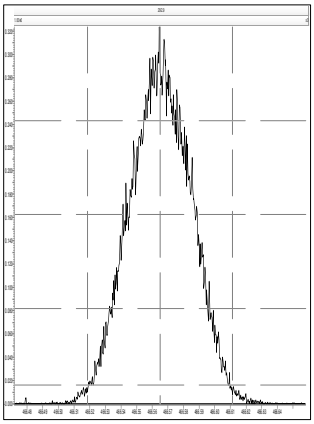
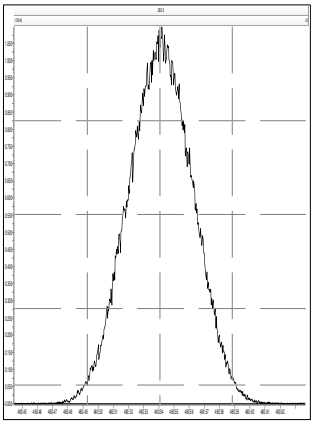
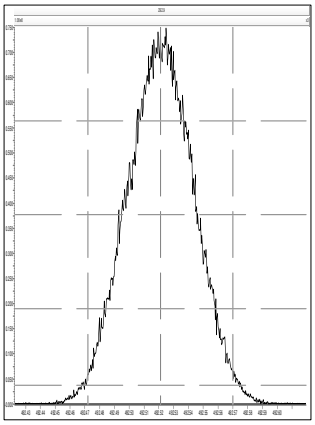


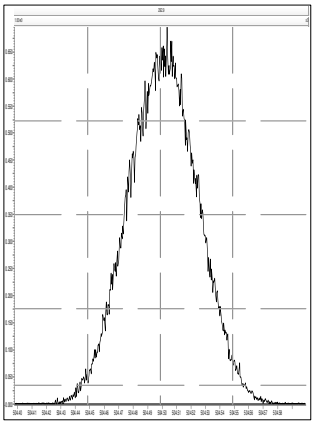
M 480.9696 R 4835



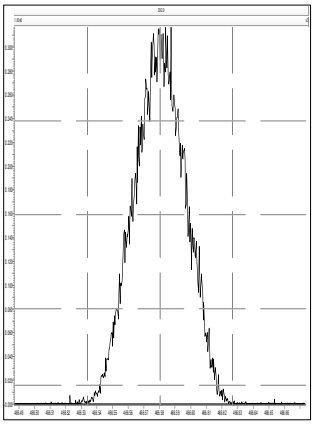
M 492.9696 R 4672



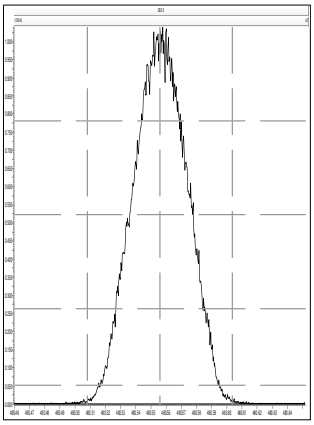
M 504.9696 R 4520



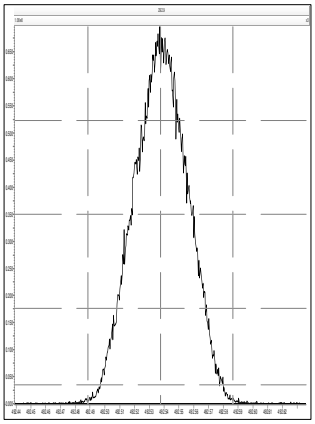
M 466.9728 R 6234



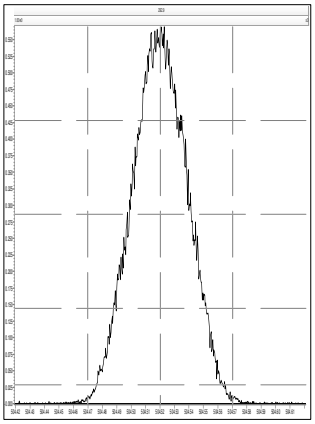
M 480.9696 R 6142



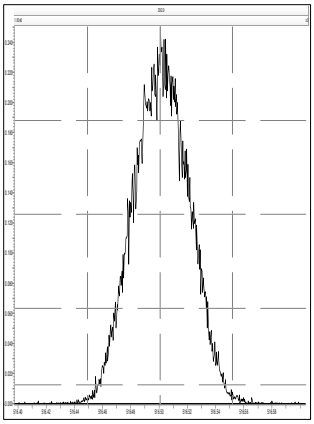
M 492.9696 R 5981



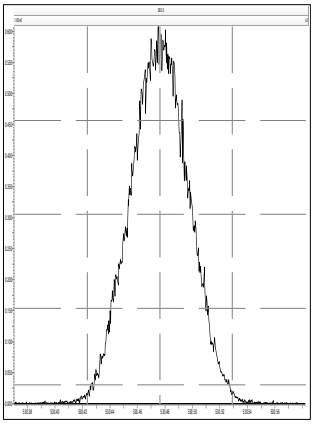
M 504.9696 R 5733



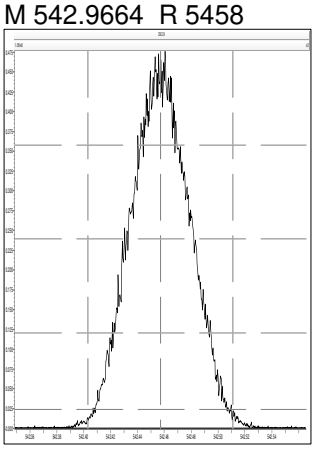
M 516.9697 R 5842



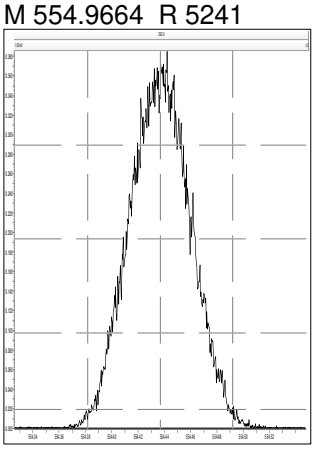
M 530.9664 R 5387



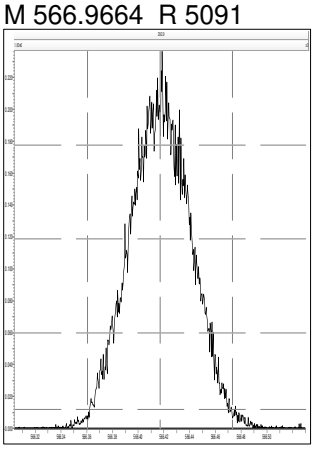
M 542.9664 R 5458



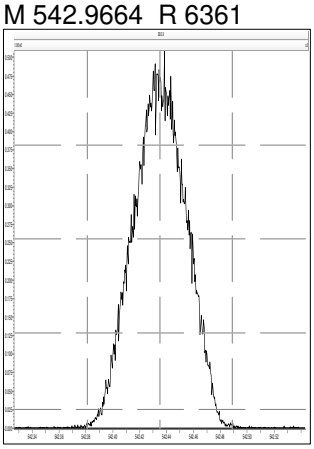
M 554.9664 R 5241



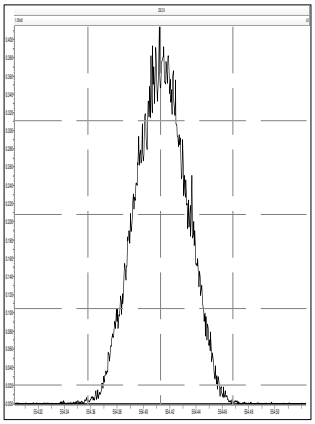
M 566.9664 R 5091



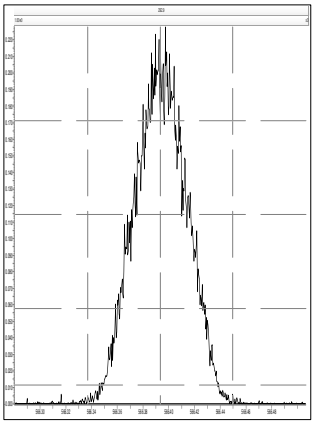
M 542.9664 R 6361



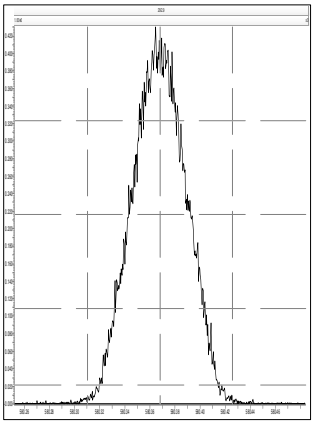
M 554.9664 R 6234



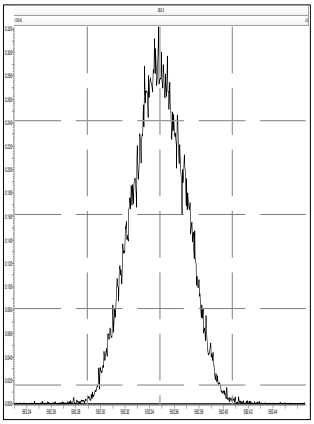
M 566.9664 R 6234



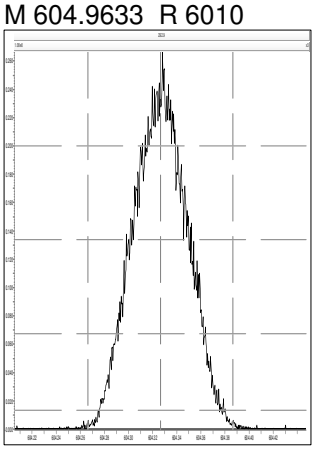
M 580.9633 R 6053



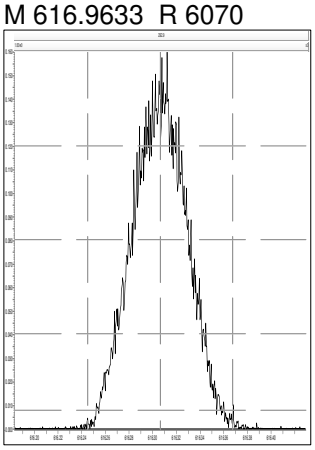
M 592.9633 R 6112



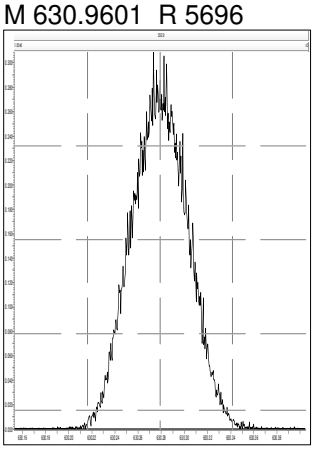
M 604.9633 R 6010



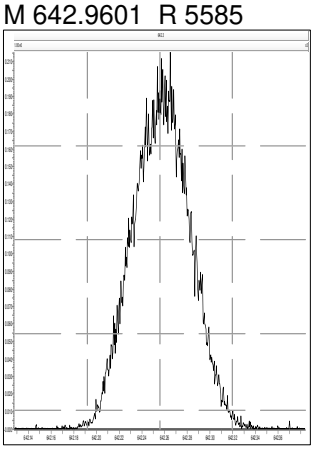
M 616.9633 R 6070



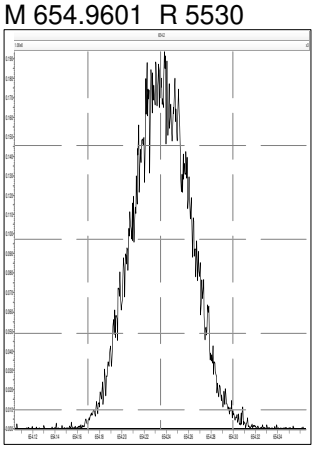
M 630.9601 R 5696



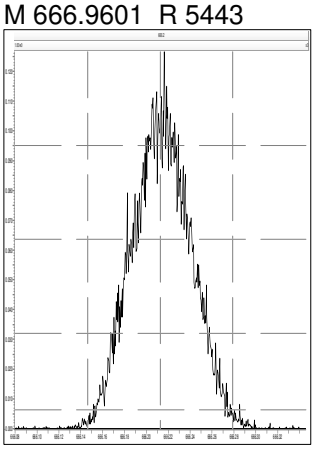
M 642.9601 R 5585



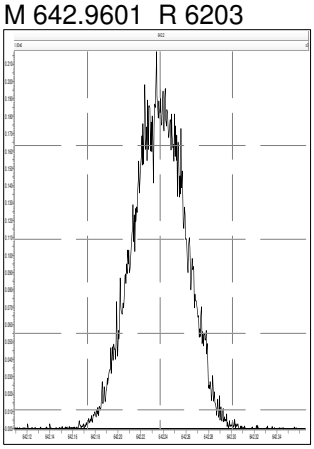
M 654.9601 R 5530



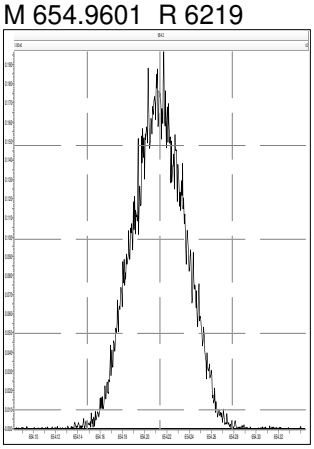
M 666.9601 R 5443



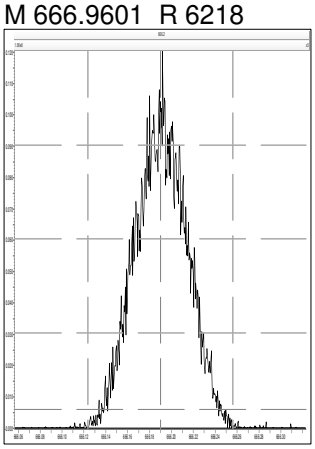
M 642.9601 R 6203



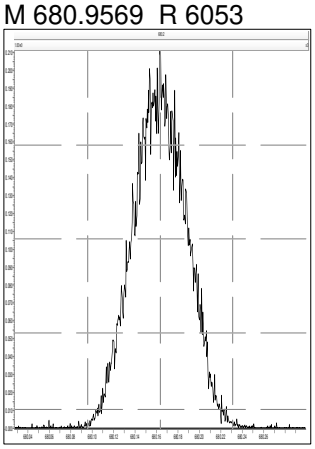
M 654.9601 R 6219



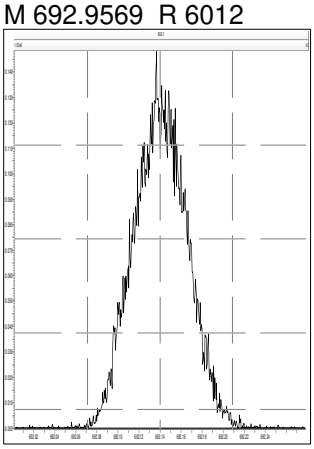
M 666.9601 R 6218



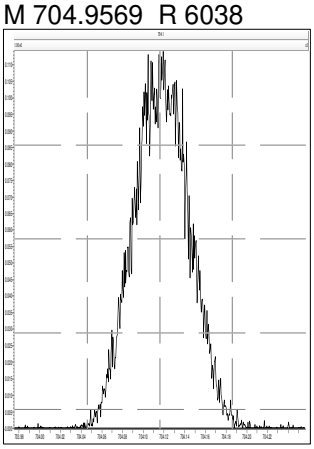
M 680.9569 R 6053



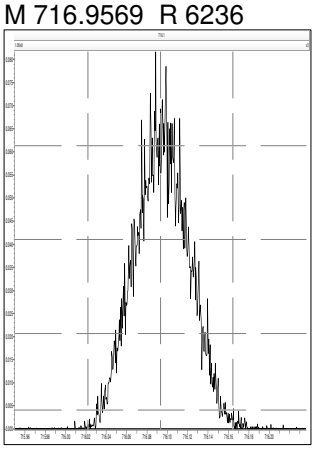
M 692.9569 R 6012



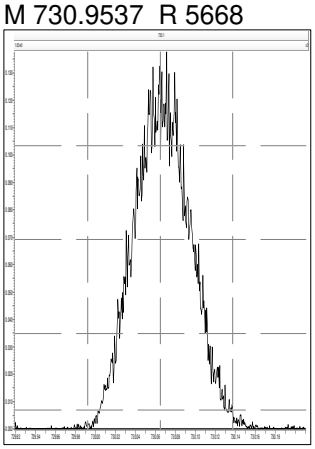
M 704.9569 R 6038



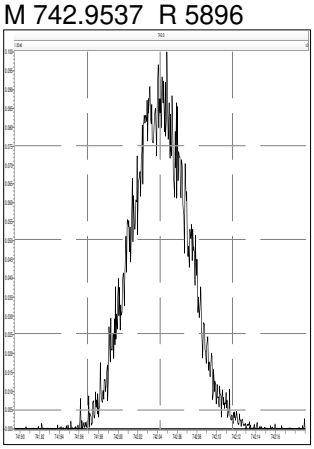
M 716.9569 R 6236



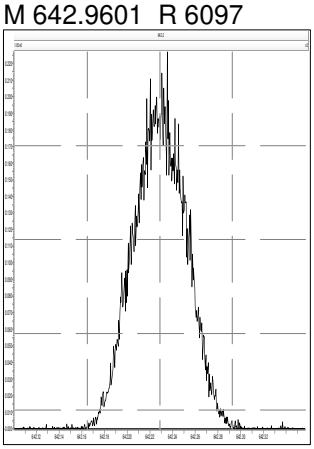
M 730.9537 R 5668



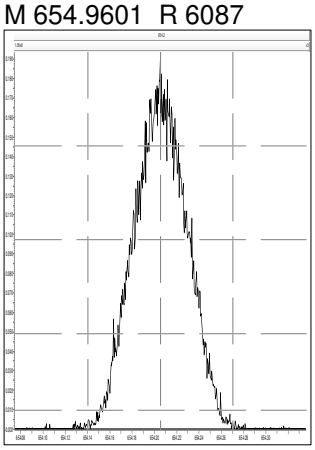
M 742.9537 R 5896



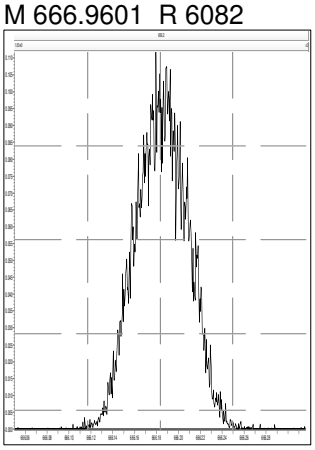
M 642.9601 R 6097



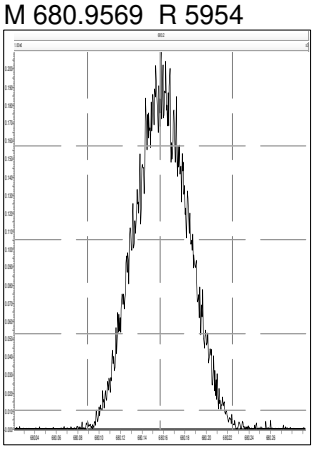
M 654.9601 R 6087



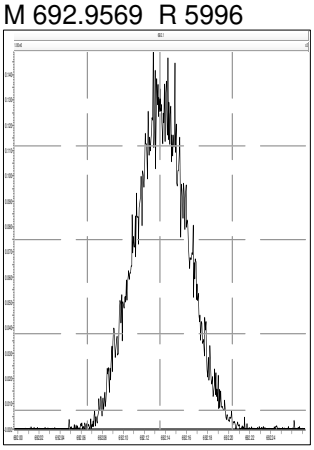
M 666.9601 R 6082



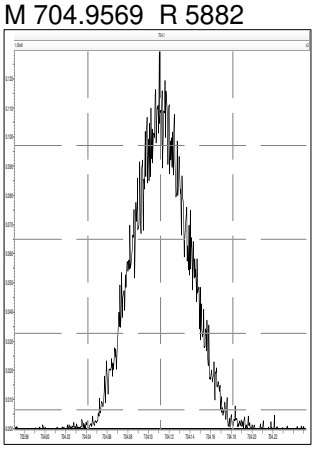
M 680.9569 R 5954



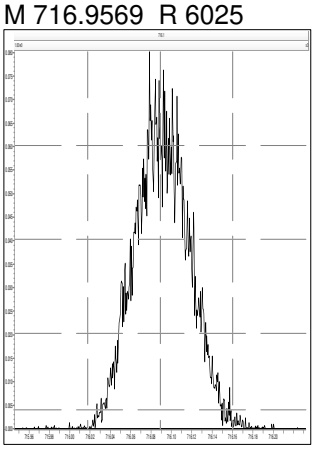
M 692.9569 R 5996



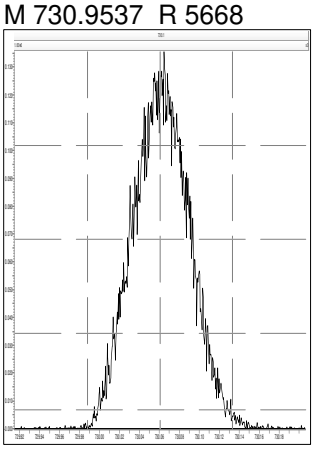
M 704.9569 R 5882



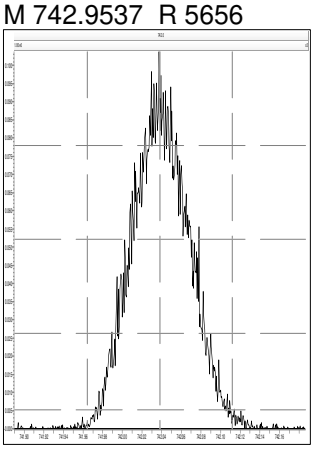
M 716.9569 R 6025



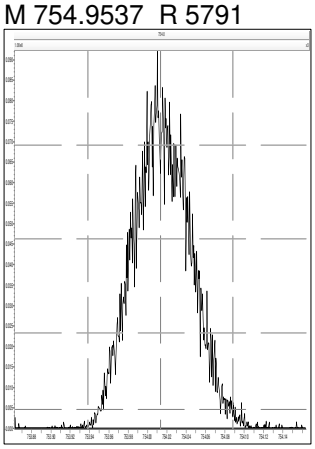
M 730.9537 R 5668



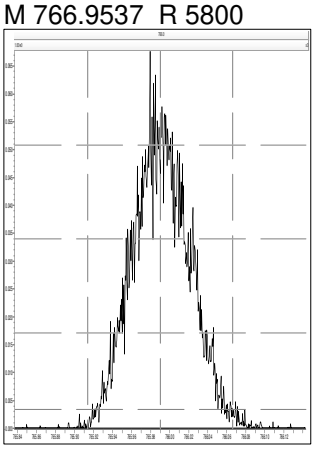
M 742.9537 R 5656



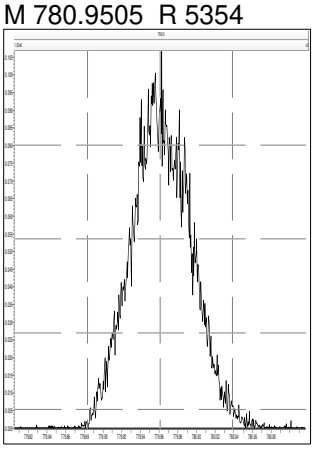
M 754.9537 R 5791



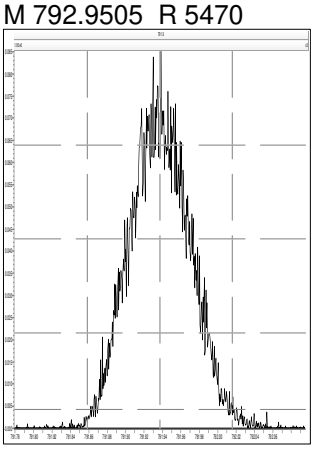
M 766.9537 R 5800



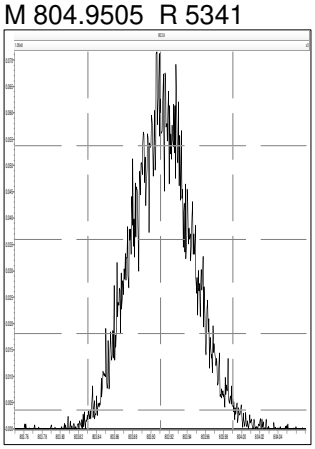
M 780.9505 R 5354



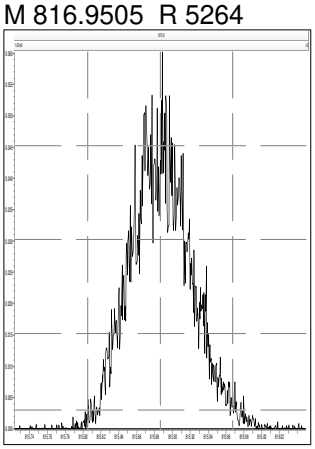
M 792.9505 R 5470



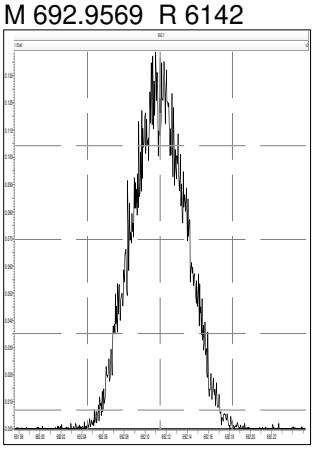
M 804.9505 R 5341



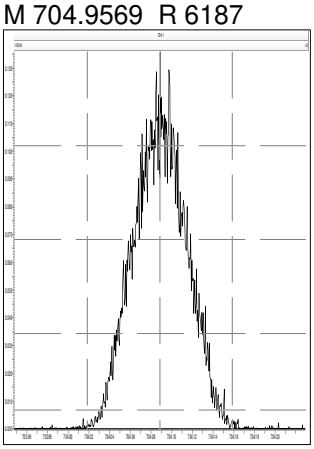
M 816.9505 R 5264



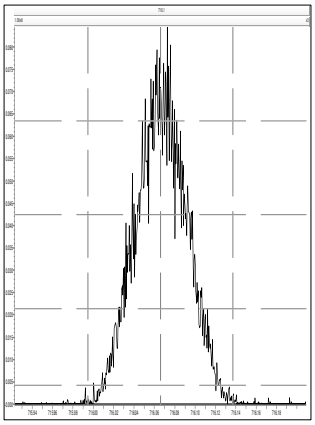
M 692.9569 R 6142



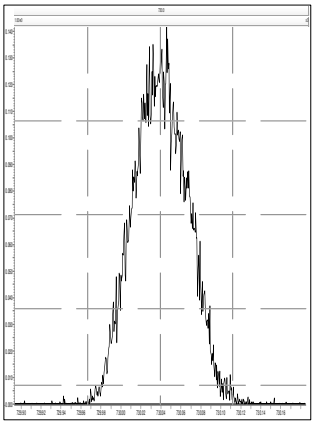
M 704.9569 R 6187



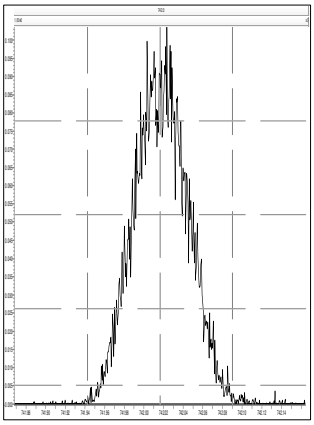
M 716.9569 R 6495



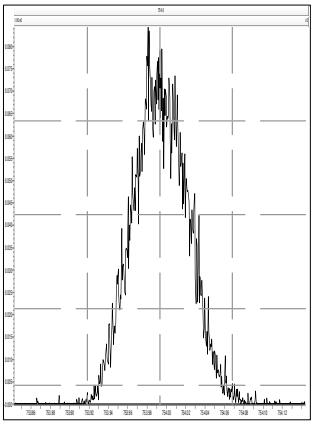
M 730.9537 R 6204



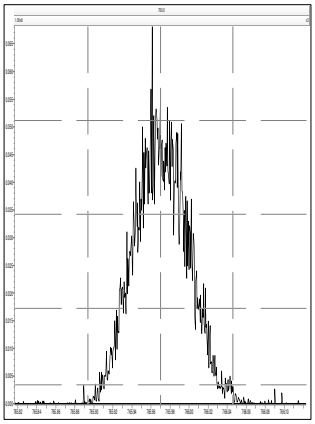
M 742.9537 R 5967



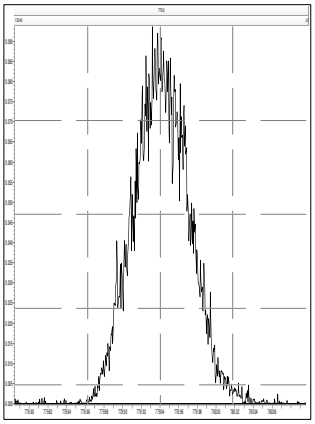
M 754.9537 R 5995



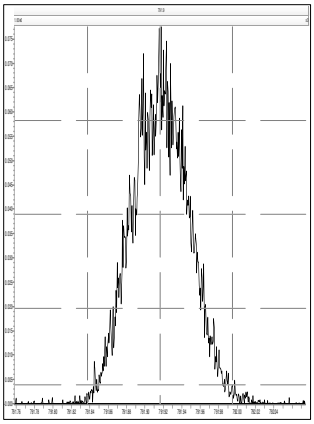
M 766.9537 R 6443



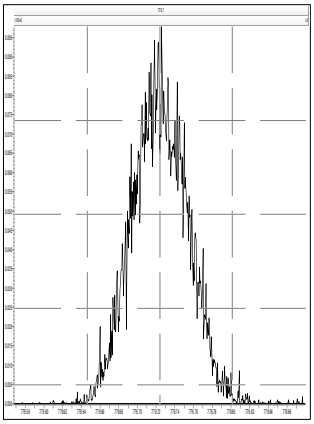
M 780.9505 R 5910



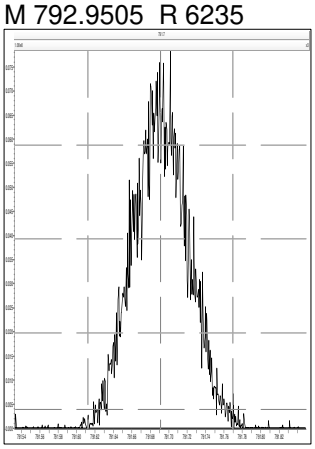
M 792.9505 R 5787



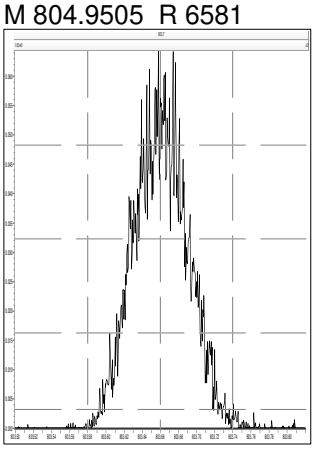
M 780.9505 R 6024



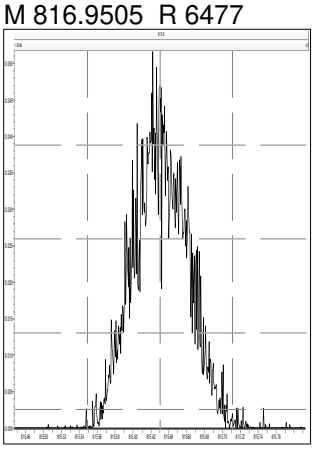
M 792.9505 R 6235



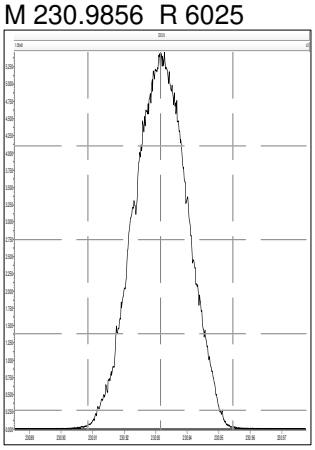
M 804.9505 R 6581



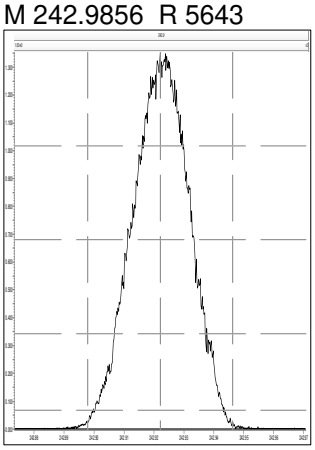
M 816.9505 R 6477



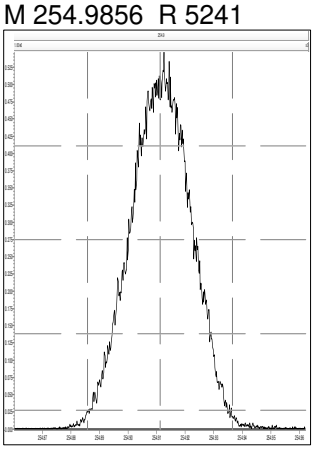
M 230.9856 R 6025



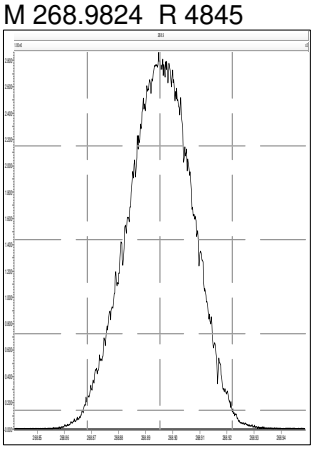
M 242.9856 R 5643



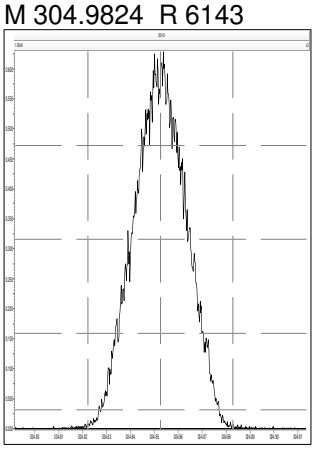
M 254.9856 R 5241



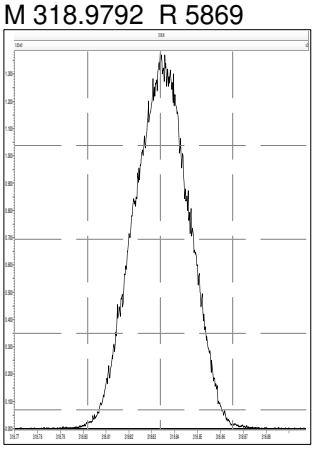
M 268.9824 R 4845



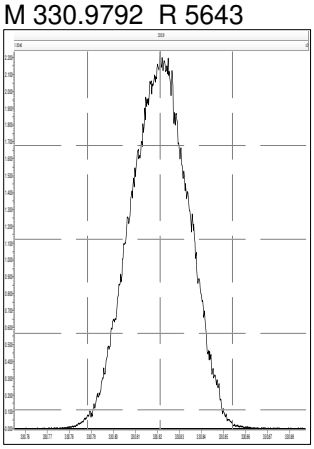
M 304.9824 R 6143



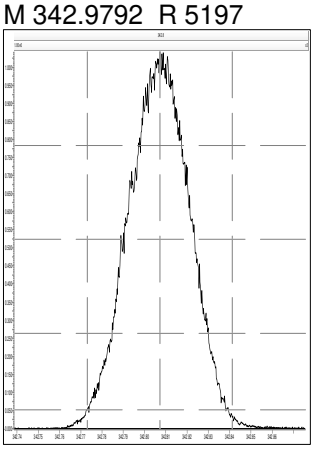
M 318.9792 R 5869



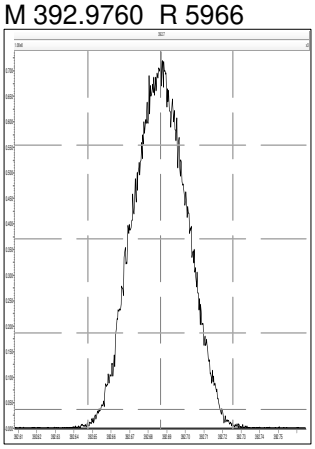
M 330.9792 R 5643



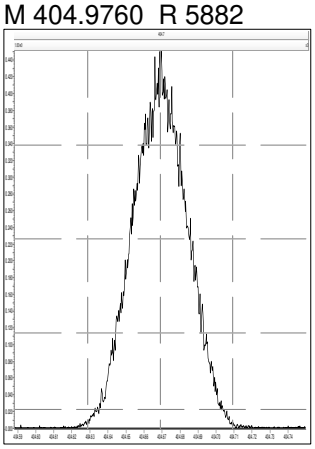
M 342.9792 R 5197



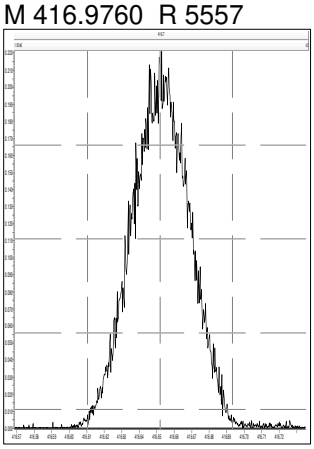
M 392.9760 R 5966



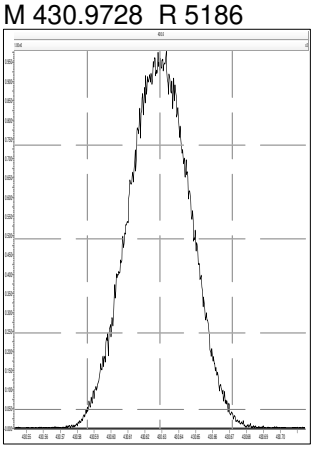
M 404.9760 R 5882



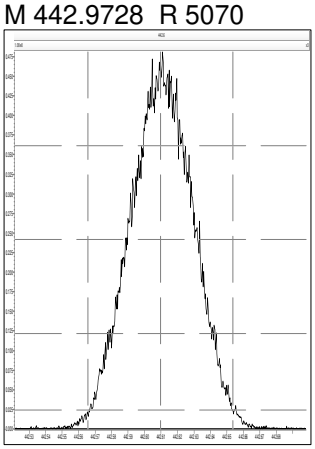
M 416.9760 R 5557



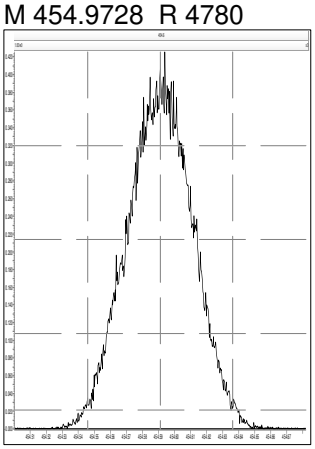
M 430.9728 R 5186



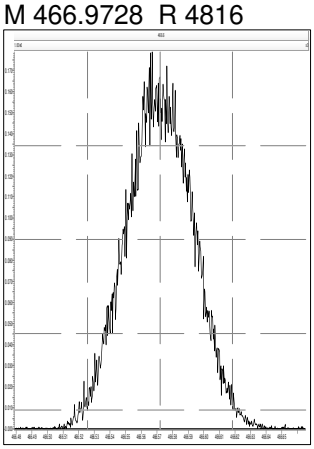
M 442.9728 R 5070



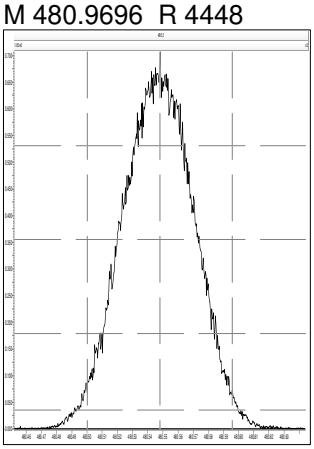
M 454.9728 R 4780



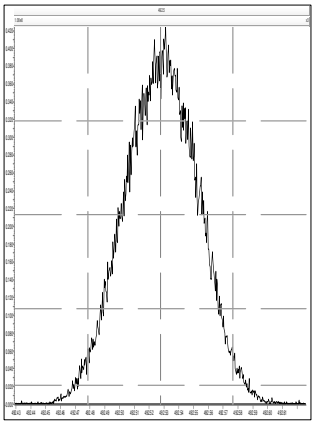
M 466.9728 R 4816



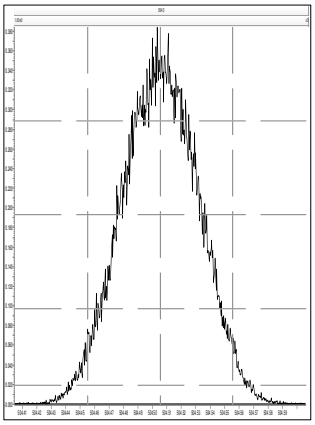
M 480.9696 R 4448



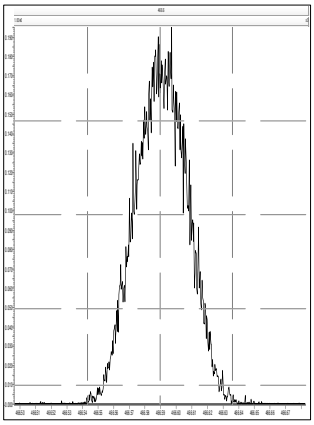
M 492.9696 R 4281



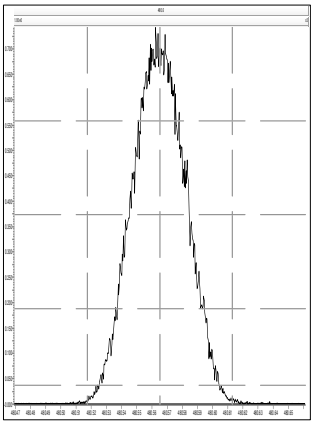
M 504.9696 R 4208



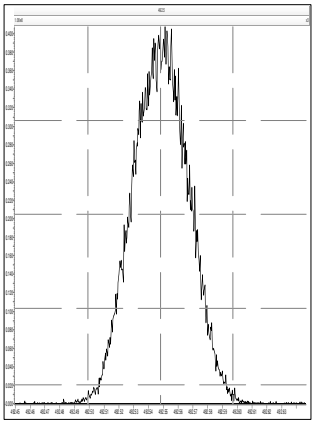
M 466.9728 R 6329



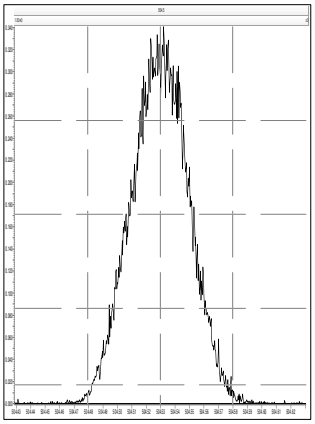
M 480.9696 R 6009



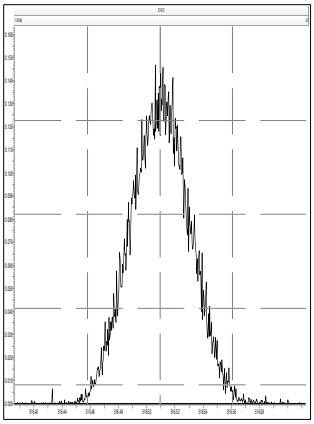
M 492.9696 R 5720



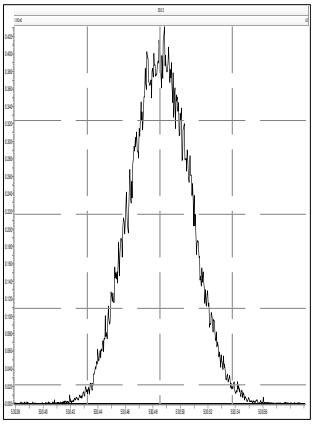
M 504.9696 R 5423



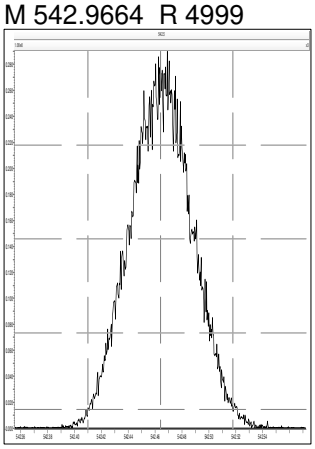
M 516.9697 R 5458



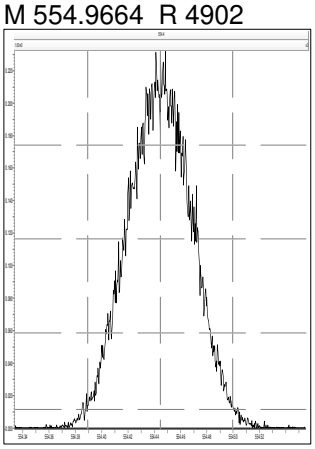
M 530.9664 R 5198



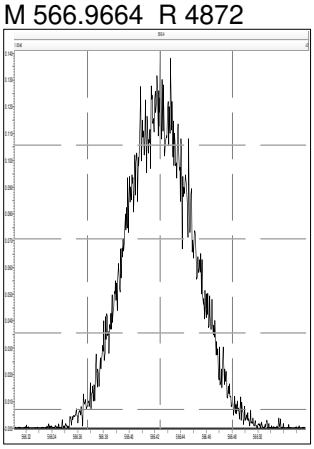
M 542.9664 R 4999



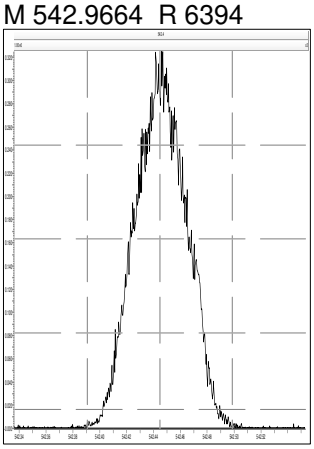
M 554.9664 R 4902



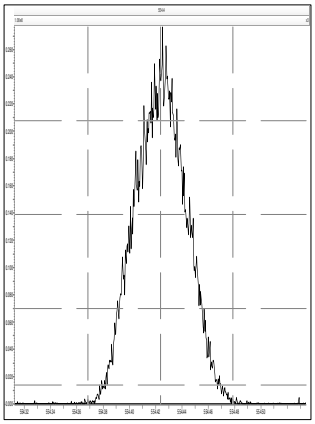
M 566.9664 R 4872



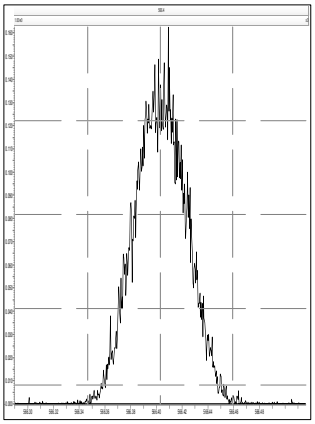
M 542.9664 R 6394



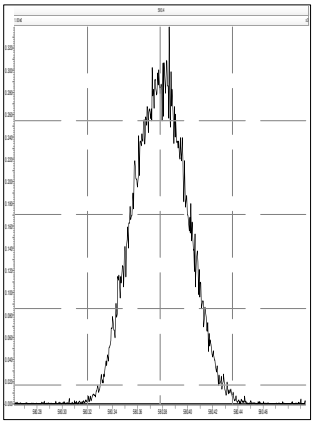
M 554.9664 R 6527



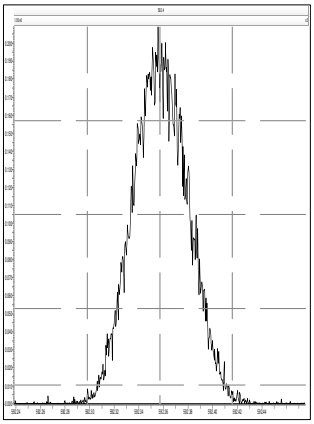
M 566.9664 R 6314



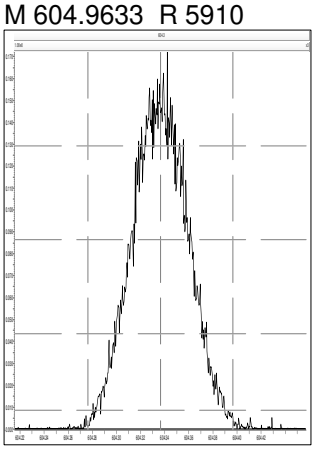
M 580.9633 R 5883



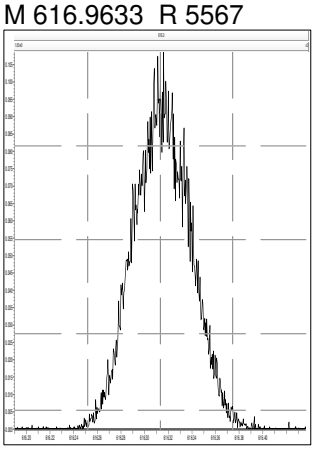
M 592.9633 R 5750



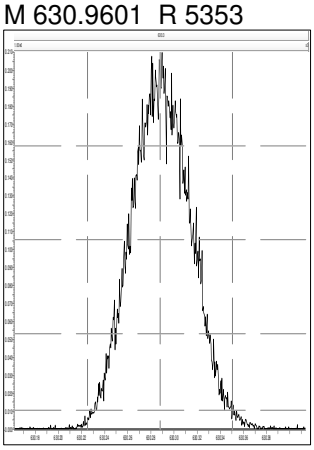
M 604.9633 R 5910



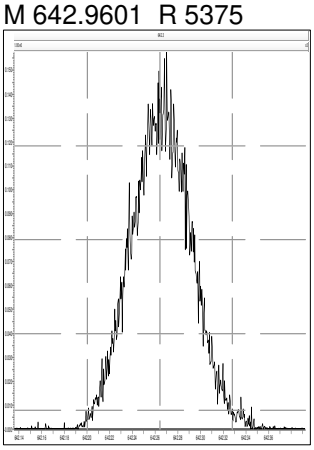
M 616.9633 R 5567



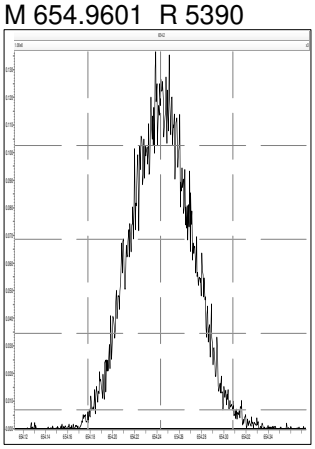
M 630.9601 R 5353



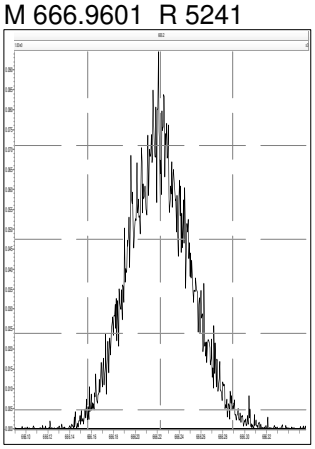
M 642.9601 R 5375



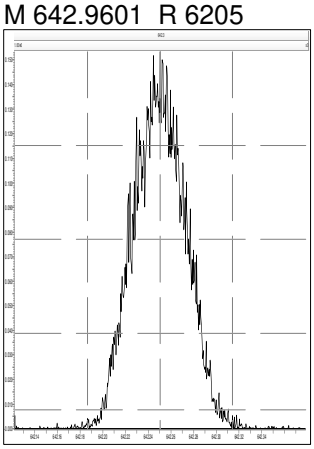
M 654.9601 R 5390



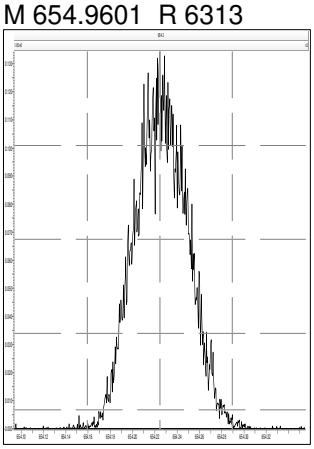
M 666.9601 R 5241



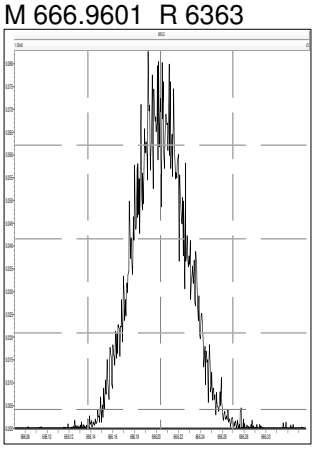
M 642.9601 R 6205



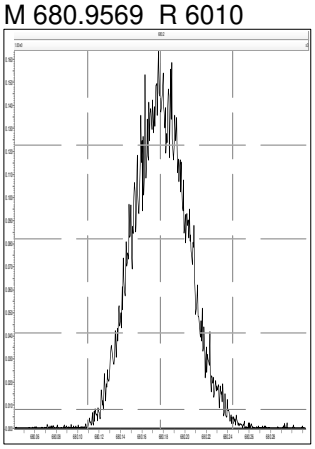
M 654.9601 R 6313



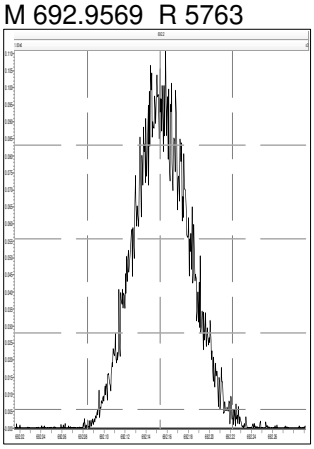
M 666.9601 R 6363



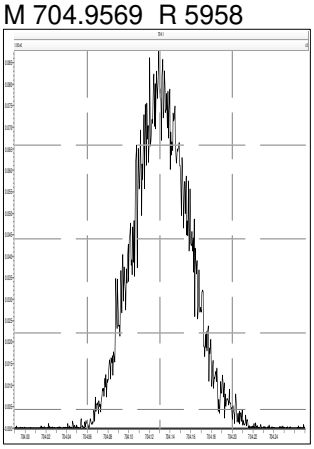
M 680.9569 R 6010



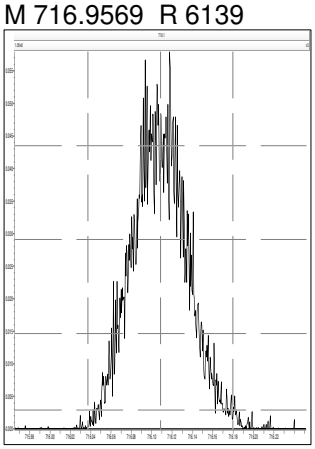
M 692.9569 R 5763



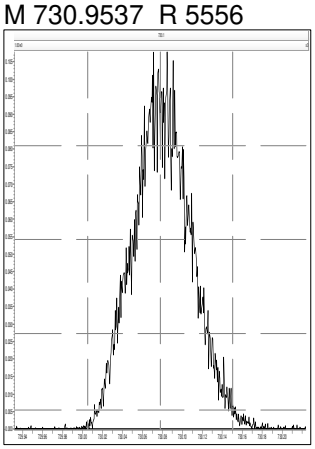
M 704.9569 R 5958



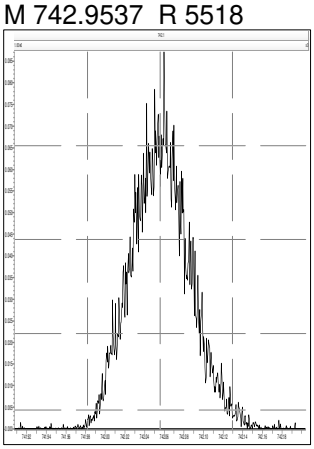
M 716.9569 R 6139



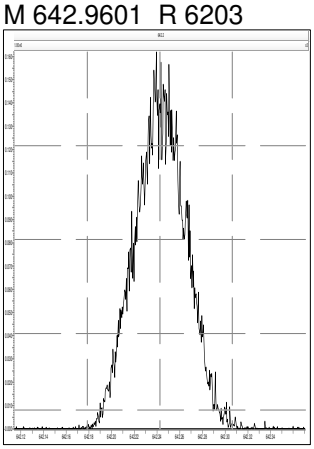
M 730.9537 R 5556



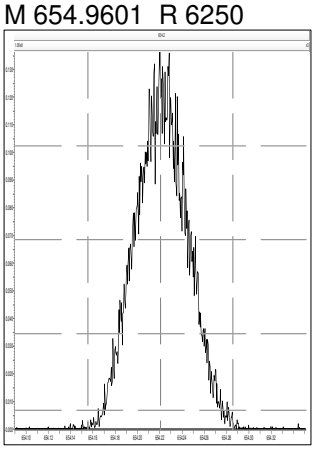
M 742.9537 R 5518



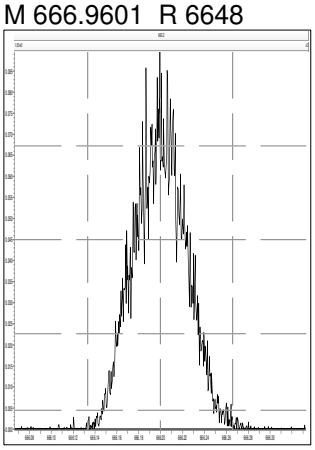
M 642.9601 R 6203



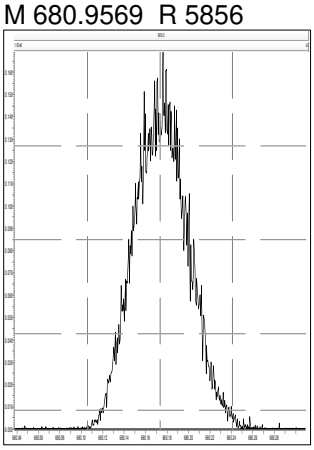
M 654.9601 R 6250



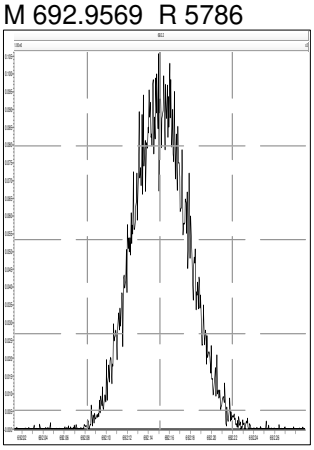
M 666.9601 R 6648



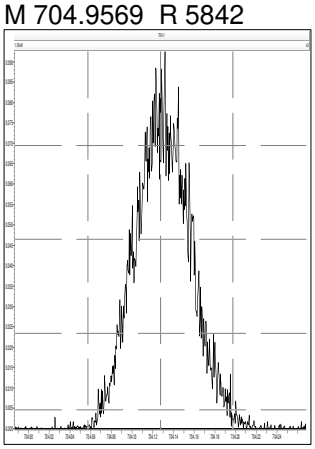
M 680.9569 R 5856



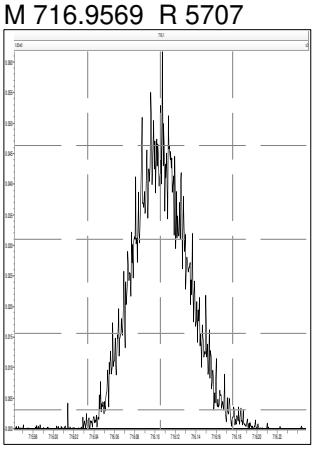
M 692.9569 R 5786



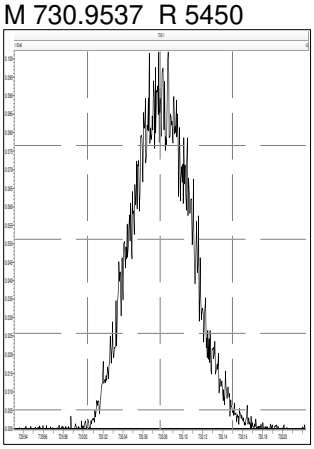
M 704.9569 R 5842



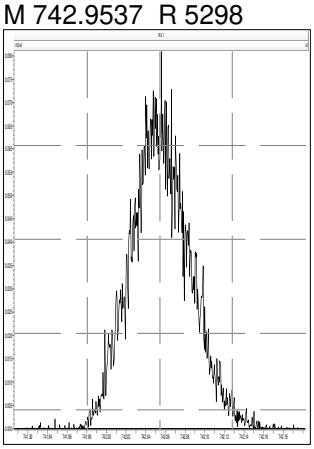
M 716.9569 R 5707



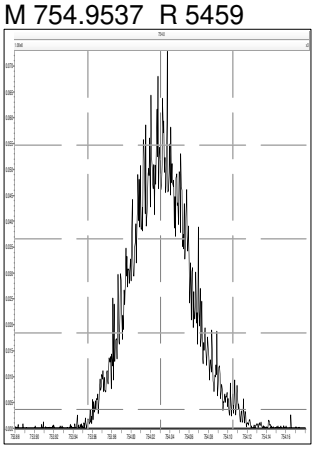
M 730.9537 R 5450



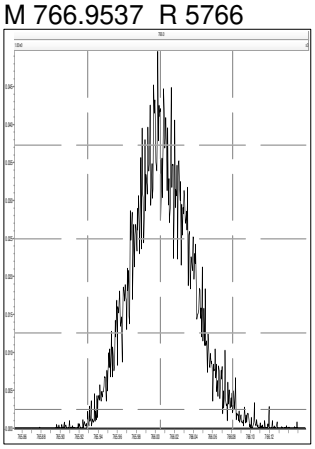
M 742.9537 R 5298



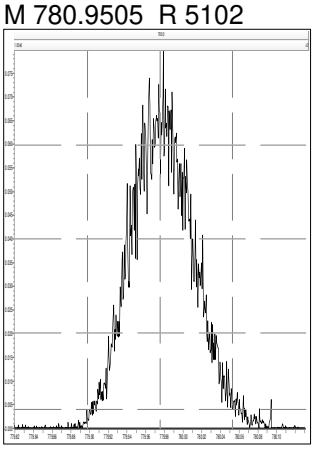
M 754.9537 R 5459



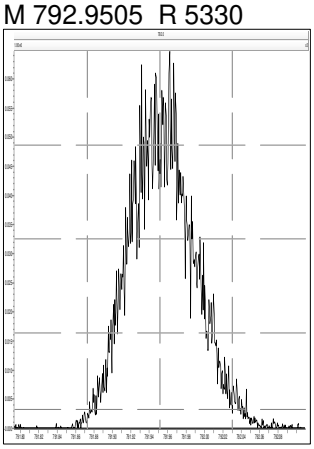
M 766.9537 R 5766



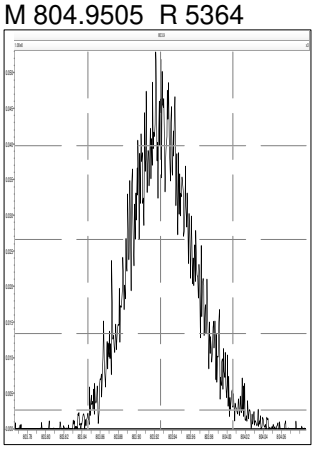
M 780.9505 R 5102



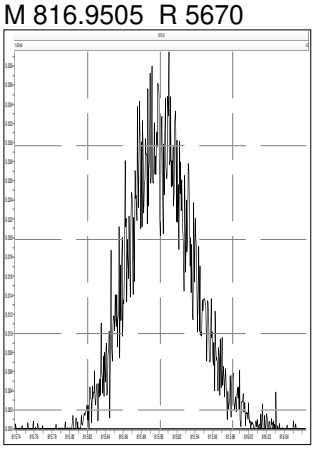
M 792.9505 R 5330



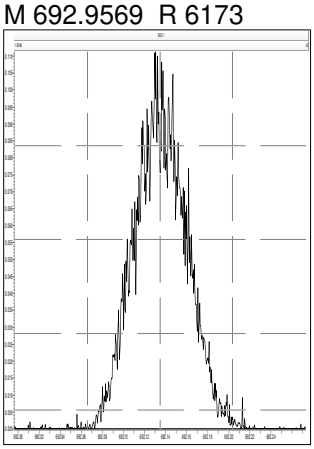
M 804.9505 R 5364



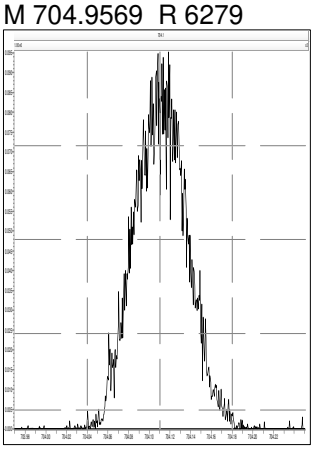
M 816.9505 R 5670



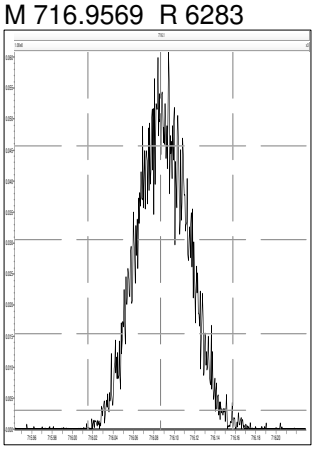
M 692.9569 R 6173



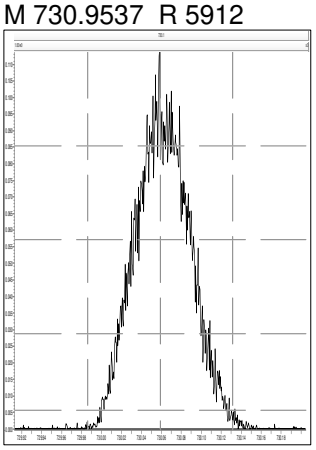
M 704.9569 R 6279



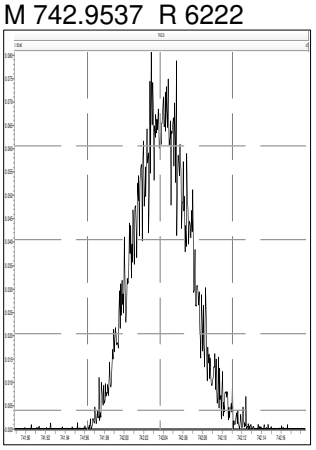
M 716.9569 R 6283



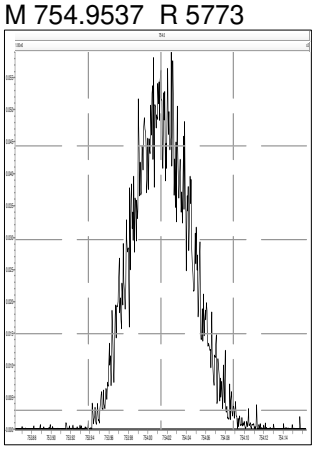
M 730.9537 R 5912



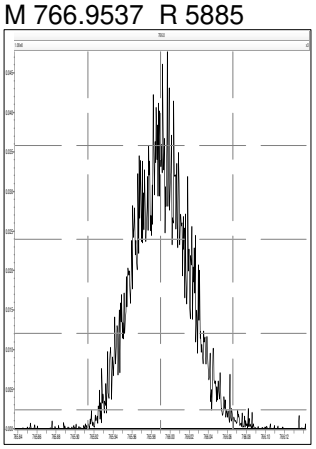
M 742.9537 R 6222



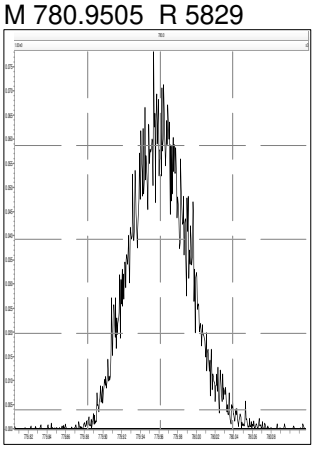
M 754.9537 R 5773



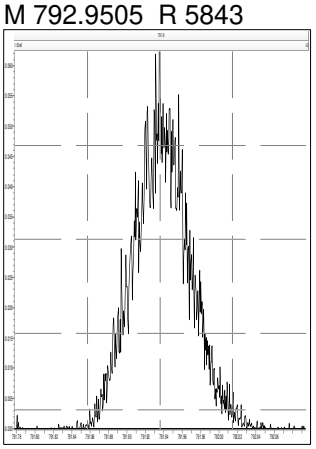
M 766.9537 R 5885



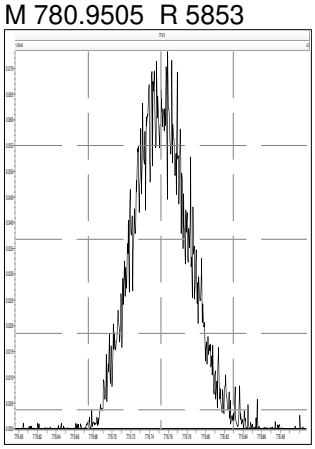
M 780.9505 R 5829



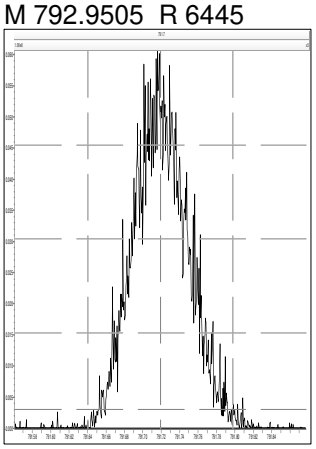
M 792.9505 R 5843



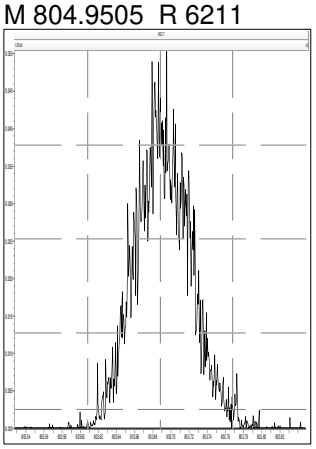
M 780.9505 R 5853



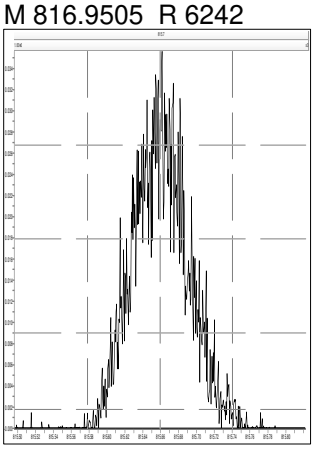
M 792.9505 R 6445



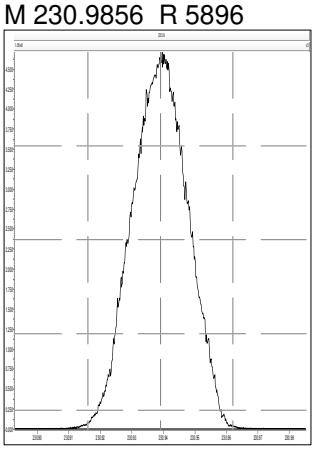
M 804.9505 R 6211



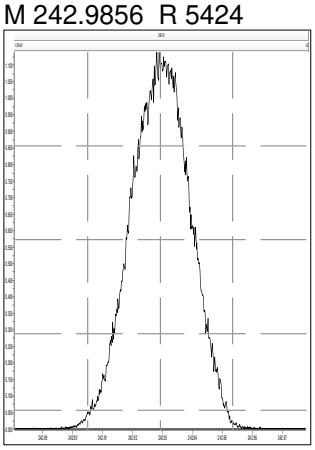
M 816.9505 R 6242



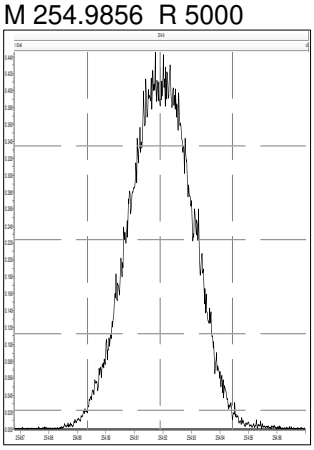
M 230.9856 R 5896



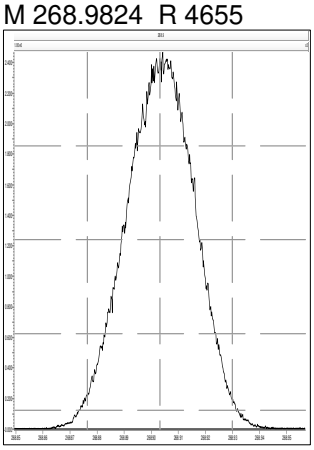
M 242.9856 R 5424



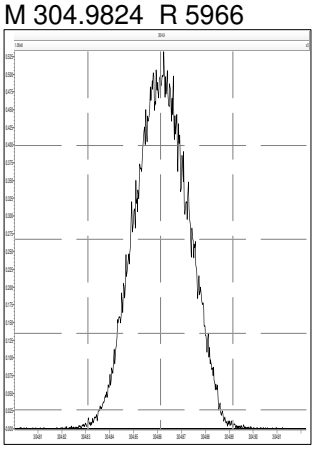
M 254.9856 R 5000



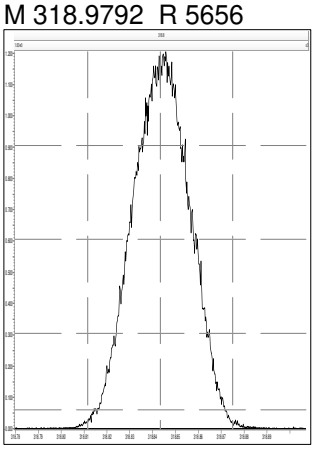
M 268.9824 R 4655



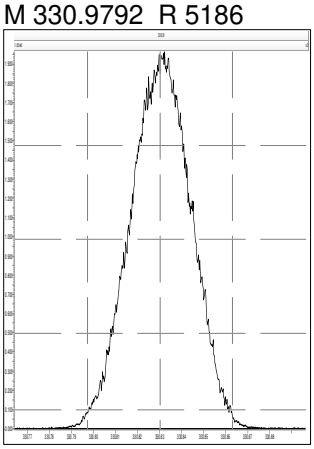
M 304.9824 R 5966



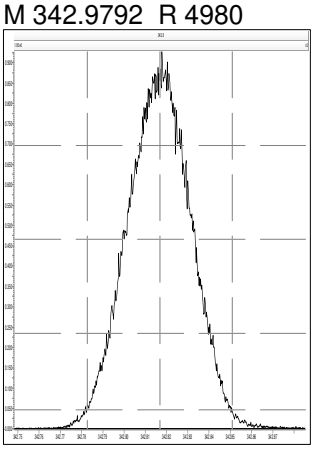
M 318.9792 R 5656



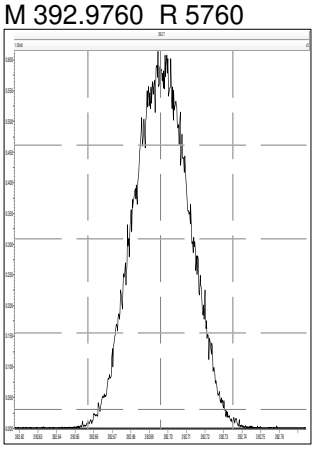
M 330.9792 R 5186



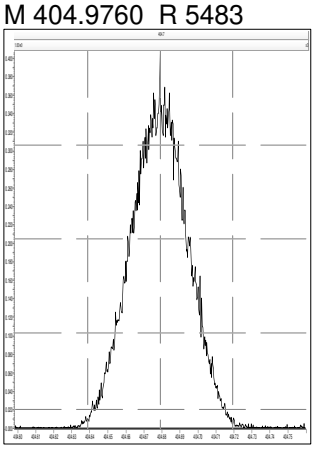
M 342.9792 R 4980



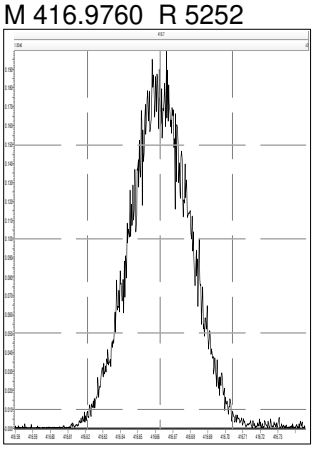
M 392.9760 R 5760



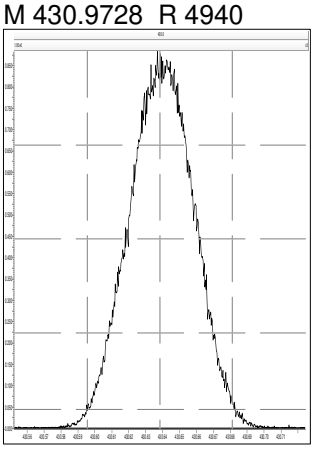
M 404.9760 R 5483



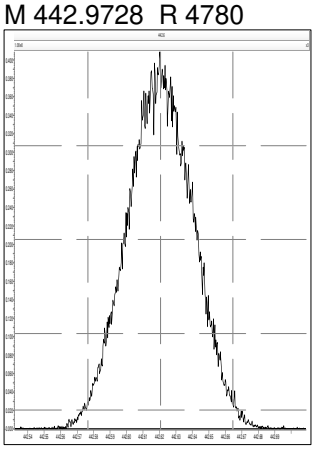
M 416.9760 R 5252



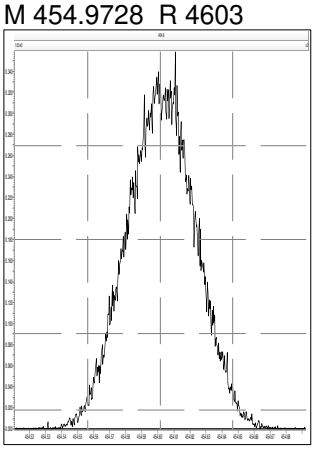
M 430.9728 R 4940



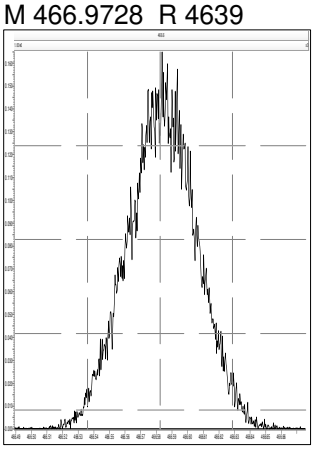
M 442.9728 R 4780



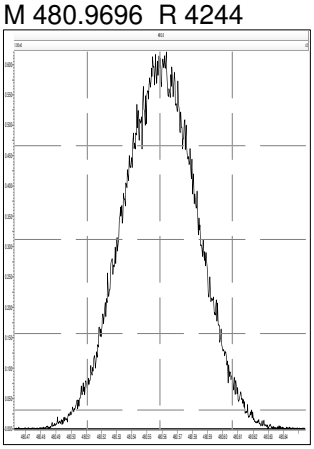
M 454.9728 R 4603



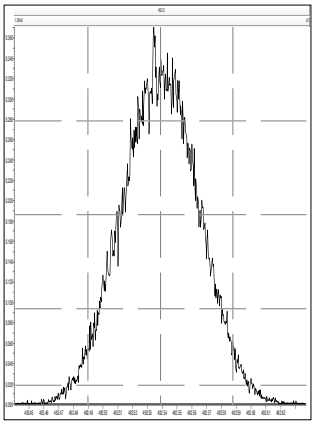
M 466.9728 R 4639



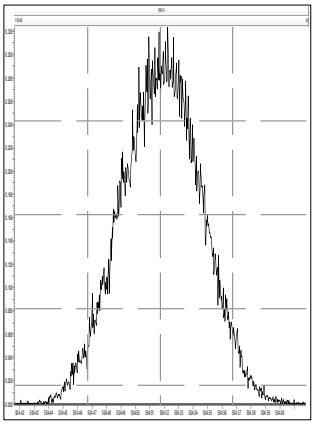
M 480.9696 R 4244



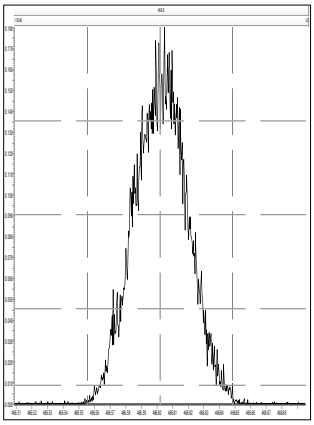
M 492.9696 R 4052



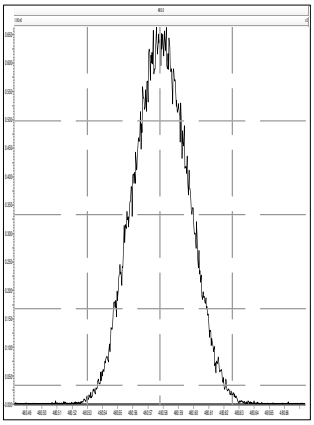
M 504.9696 R 3984



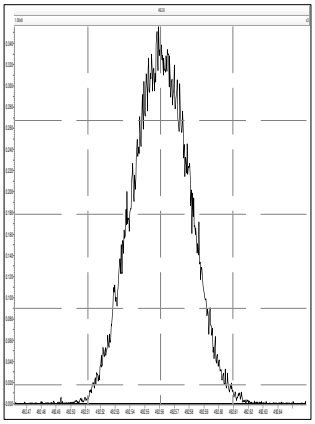
M 466.9728 R 5871



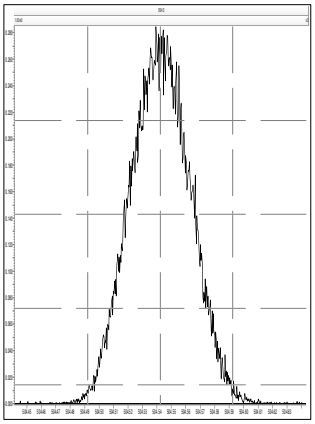
M 480.9696 R 5773



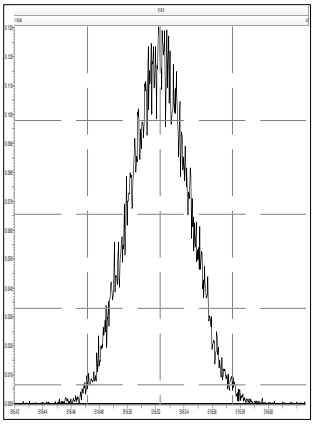
M 492.9696 R 5645



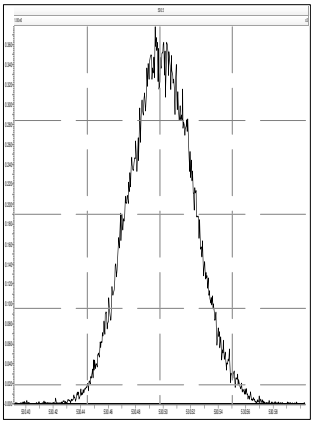
M 504.9696 R 5341



M 516.9697 R 5321



M 530.9664 R 4884



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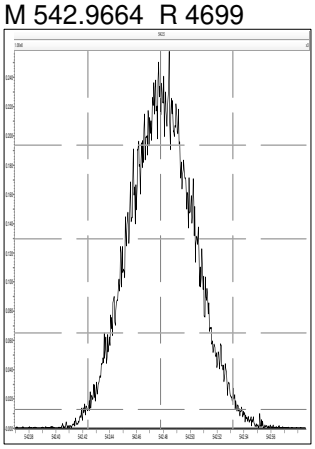

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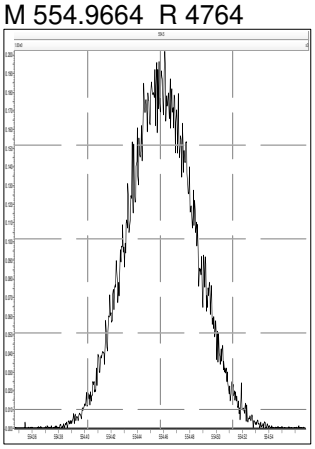

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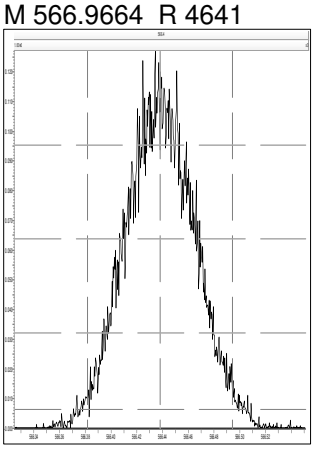

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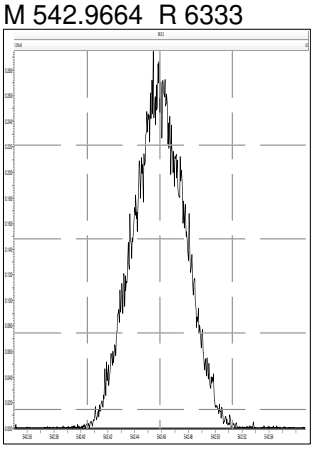

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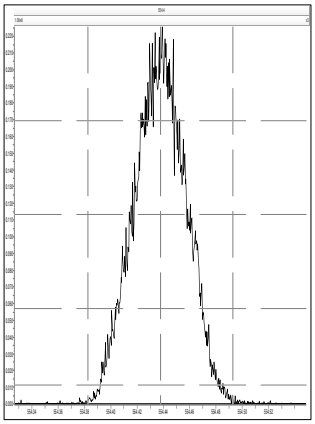

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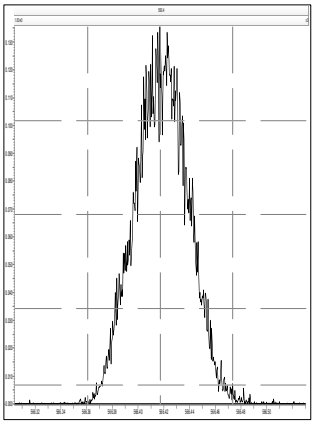

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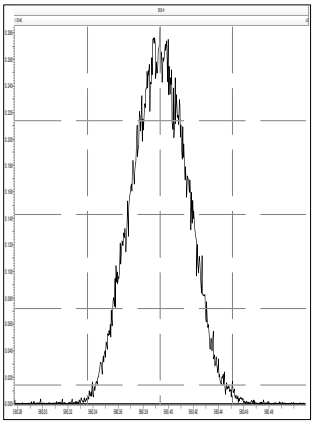

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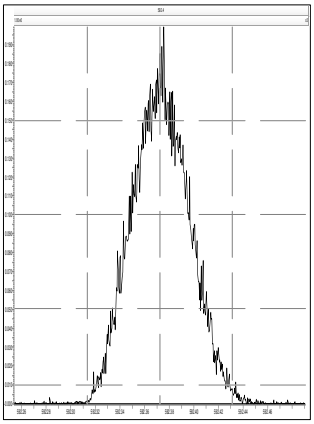

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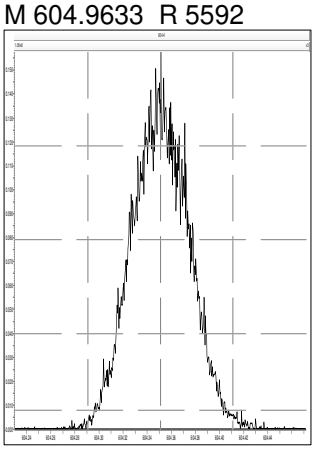

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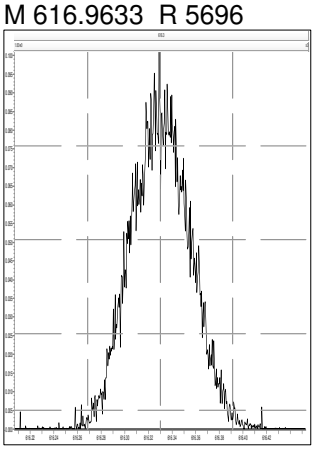

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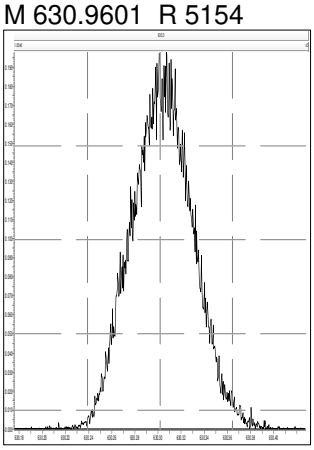

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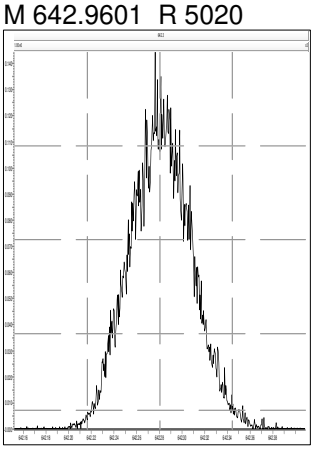

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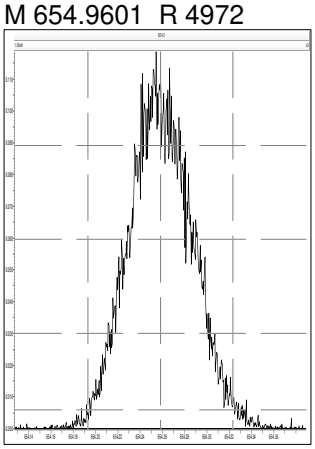

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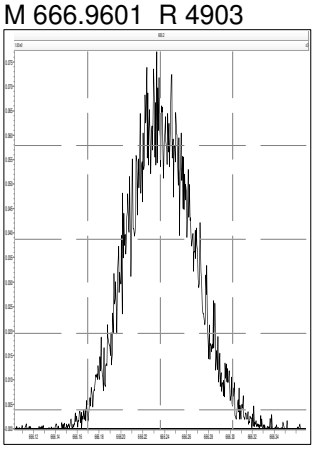

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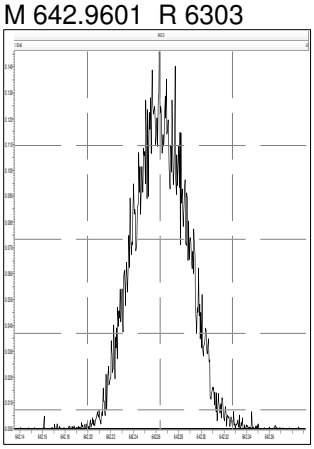

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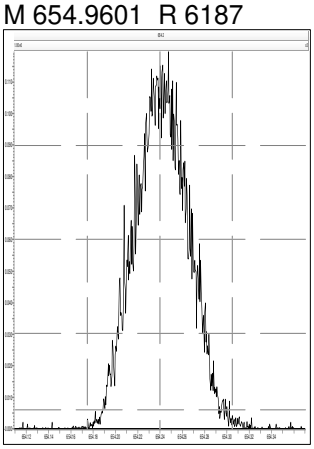

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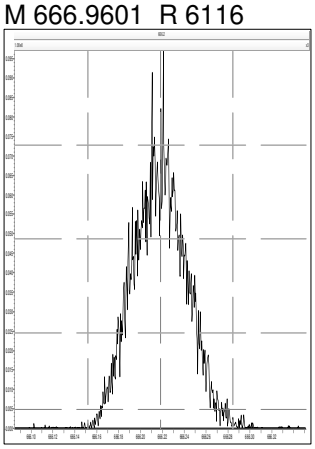

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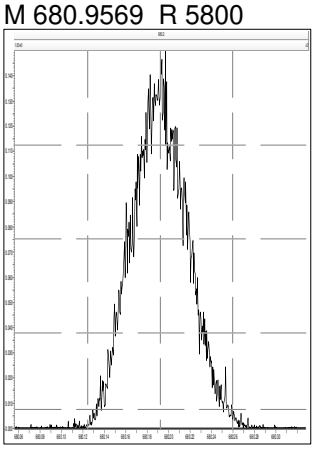

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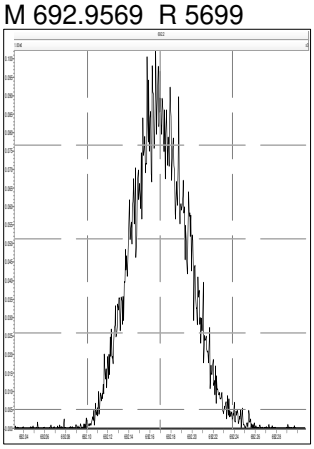

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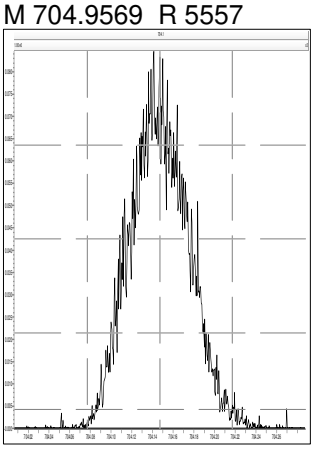

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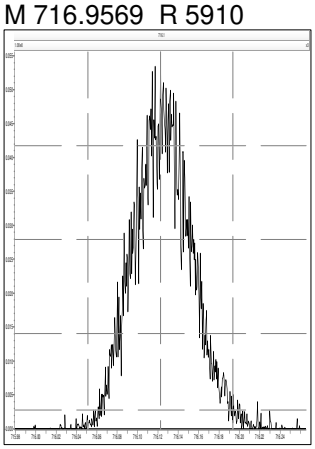

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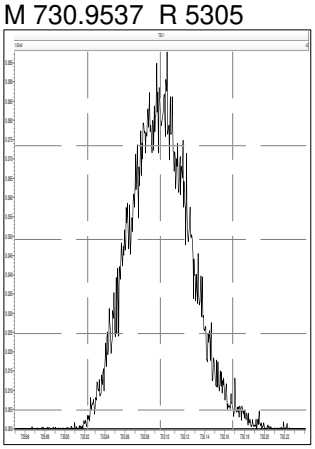

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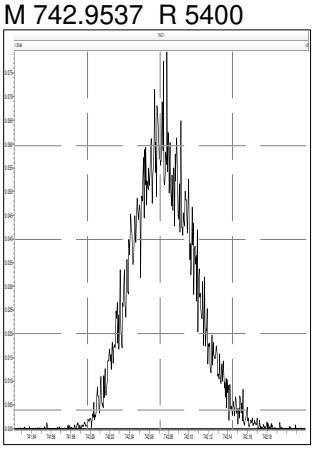

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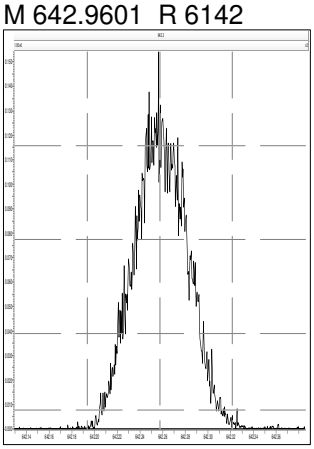

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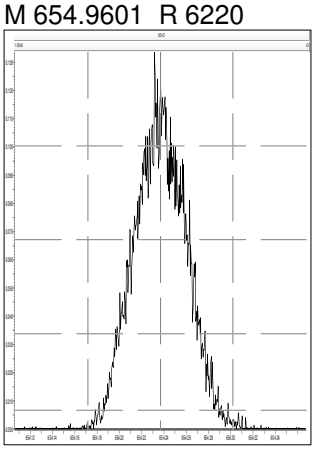

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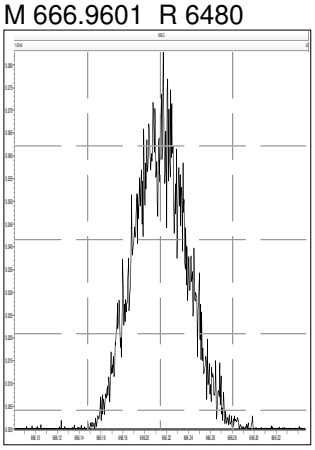

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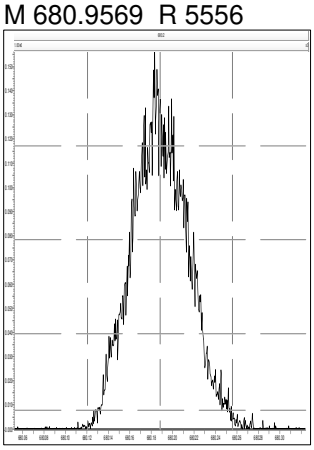

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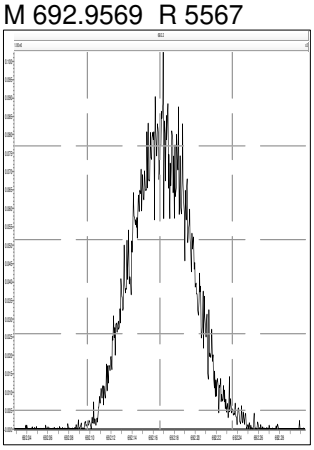

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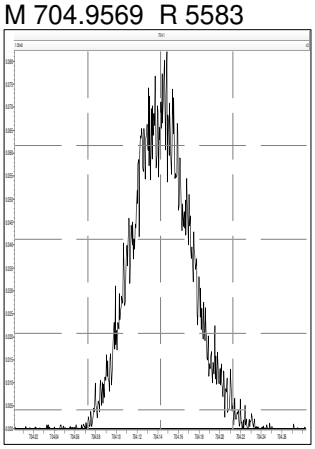

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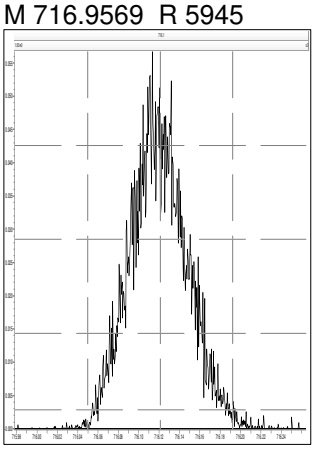

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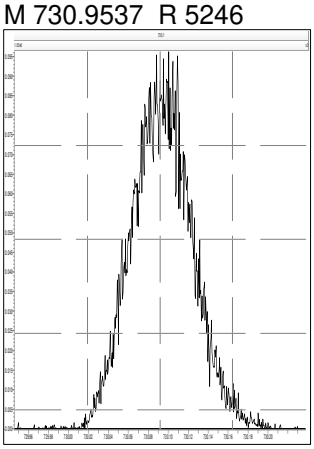

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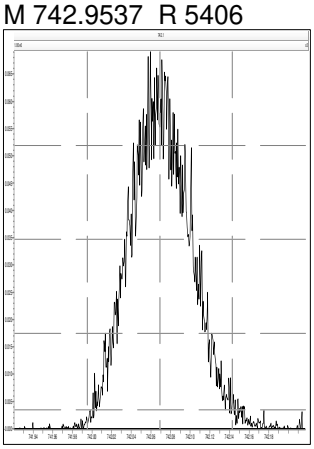

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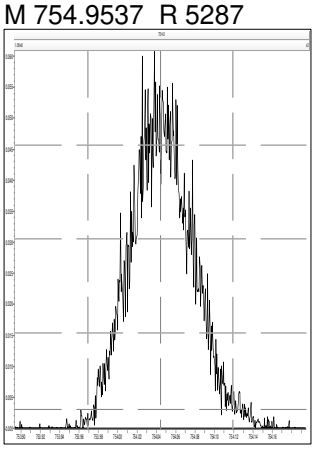

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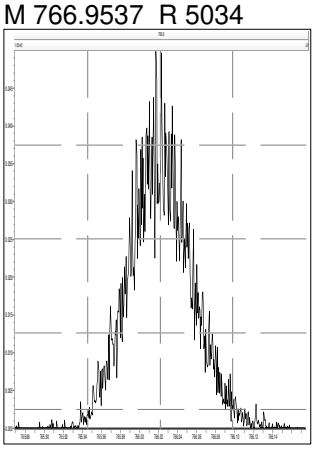

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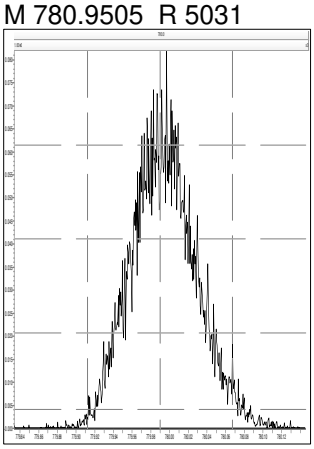

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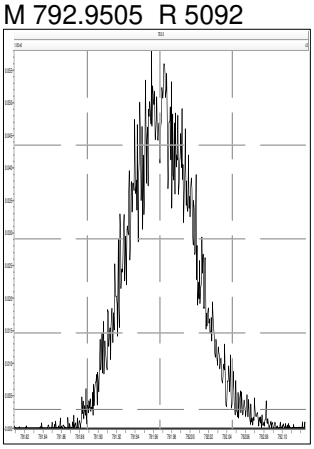

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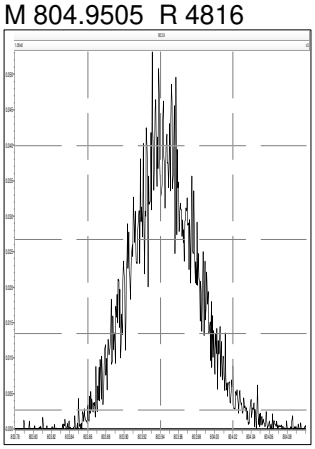

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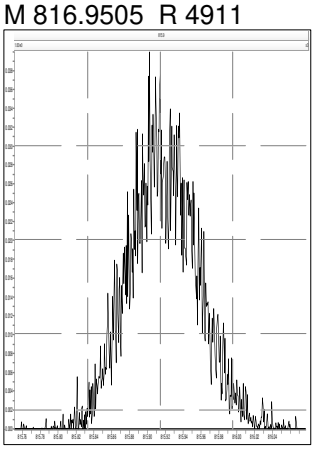

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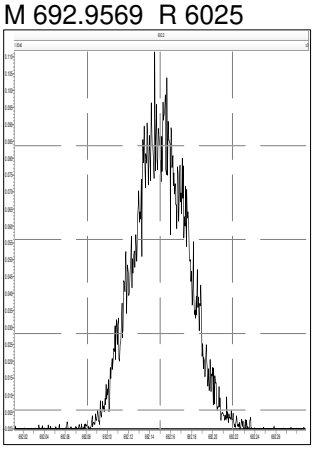

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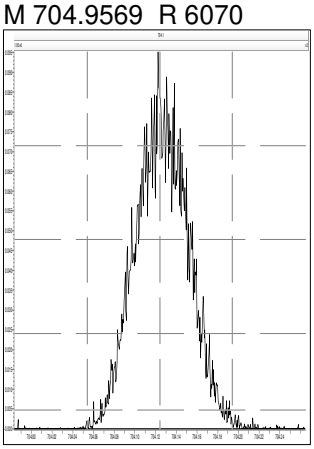

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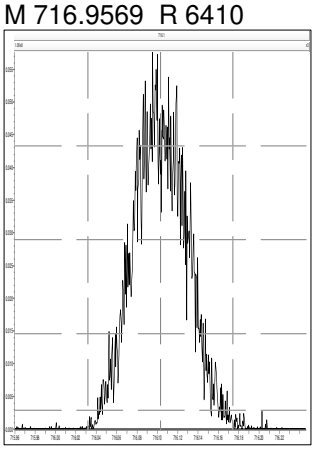

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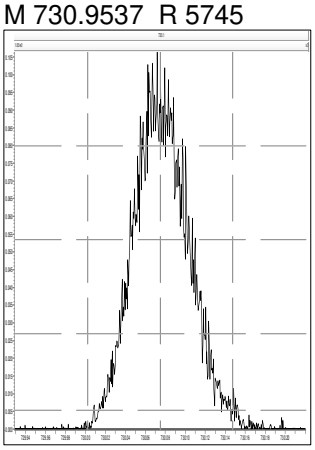

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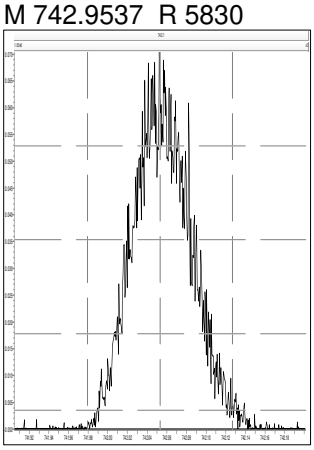

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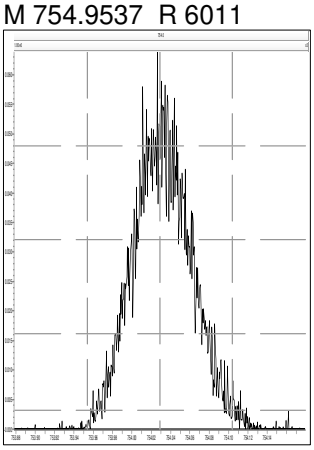

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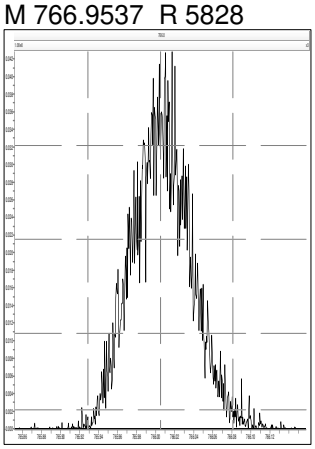

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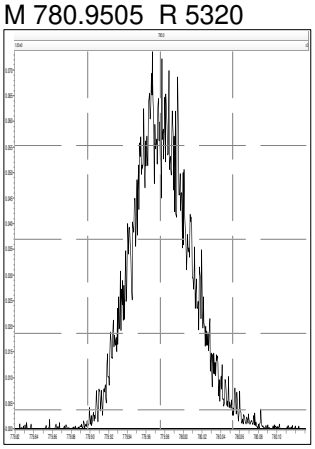

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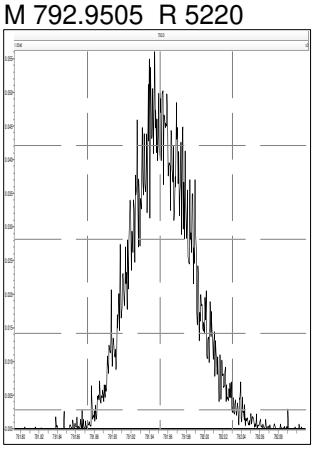

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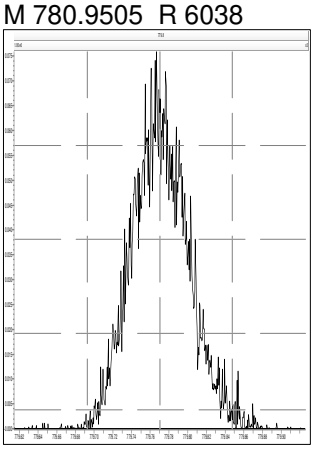

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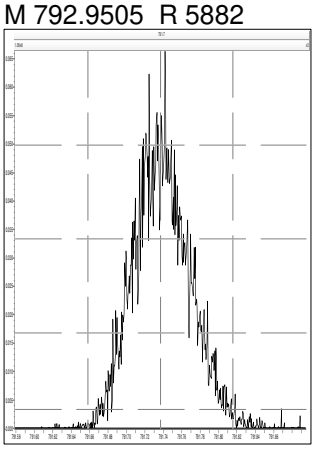

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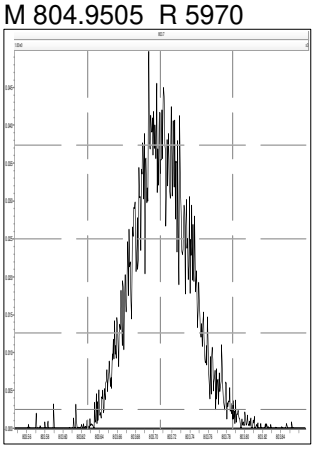

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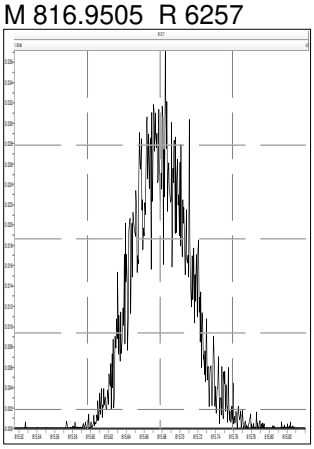

1435 Norjohn Court, Unit 1, Burlington, ON, Canada L7L 0E6

SVOC DATA PACKAGE

APPENDIX 1: INSTRUMENT OUTPUT DOCUMENTS

Including For Each Analytical Sequence::

- The scanned instrument runlogs

- Instrument output (SICP chromatograms) indicating the integrations used for quantification including:
  - GC chromatographic resolution checks, where appropriate
  - SICPs for the run
  - SICP chromatograms indicating the automated and manual peak integration, where this has been edited

- Reference peak profiles indicating the mass resolution
  - Pre-run mass calibration check printouts
  - Post-run mass calibration check printouts

Sample List Report **MassLynx 4.1 SCN815 SCN795**

Sample List: C:\MassLynx\DEFAULT.PRO\SampleDB\10-210913B-RUN PBDE.SPL
Last Modified: Friday, September 17, 2021 10:10:20 Eastern Daylight Time
Printed: Friday, September 17, 2021 10:10:25 Eastern Daylight Time

Page Position (1, 1)

	File Name	Sample ID	File Text	MS File	Inlet File	Vial	Inject Volume
1	10-210913B01	H10-21-CCV-0122	PBDEX-CS#3-003	PBDEX_1614	PBDEX_1614	Tray1:1	1.500000
2	10-210913B02	H10-21-CCV-0123	PBDEX-CS#3-003	PBDEX_1614	PBDEX_1614	Tray1:1	1.500000
3	10-210913B03	H10-21-CCV-0123	PBDEX-CS#3-003	PBDEX_1614	PBDEX_1614	Tray1:1	1.500000
4	10-210913B04	H10-21-CS2-0123	PBDEX-CS#2-003	PBDEX_1614	PBDEX_1614	Tray1:3	1.500000
5	10-210913B05	H10-21-CS1-0123	PBDEX-CS#1-003	PBDEX_1614	PBDEX_1614	Tray1:2	1.500000
6	10-210913B06	H10-21-CS5-0123	PBDEX-CS#5-003	PBDEX_1614	PBDEX_1614	Tray1:5	1.500000
7	10-210913B07	H10-21-CS4-0123	PBDEX-CS#4-003	PBDEX_1614	PBDEX_1614	Tray1:4	1.500000
8	10-210913B08	H10-21-RS2-0123	PBDEX-RS#2-20	PBDEX_1614	PBDEX_1614	Tray1:5	1.500000
9	10-210913B09	WG3603564-2	LCS	PBDEX_1614	PBDEX_1614	Tray1:14	1.500000
10	10-210913B10	WG3603574-2	LCS	PBDEX_1614	PBDEX_1614	Tray1:15	1.500000
11	10-210913B11	WG3594968-2	LCS	PBDEX_1614	PBDEX_1614	Tray1:16	1.500000
12	10-210913B12	TOL1	IB	PBDEX_1614	PBDEX_1614	Tray1:7	1.500000
13	10-210913B13	TOL2	IB	PBDEX_1614	PBDEX_1614	Tray1:8	1.500000
14	10-210913B14	WG3603564-1	MBLANK	PBDEX_1614	PBDEX_1614	Tray1:17	1.500000
15	10-210913B15	WG3603574-1	MBLANK	PBDEX_1614	PBDEX_1614	Tray1:18	1.500000
16	10-210913B16	WG3594968-1	MBLANK	PBDEX_1614	PBDEX_1614	Tray1:19	1.500000
17	10-210913B17	L2625428-1	SAMPLE	PBDEX_1614	PBDEX_1614	Tray1:20	1.500000
18	10-210913B18	L2625428-2	SAMPLE R X	PBDEX_1614	PBDEX_1614	Tray1:21	1.500000
19	10-210913B19	H10-21-CCV-0123	PBDEX-CS#3-20	PBDEX_1614	PBDEX_1614	Tray1:1	1.500000
20	10-210913B20	TOL1	IB	PBDEX_1614	PBDEX_1614	Tray1:7	1.500000
21	10-210913B21	TOL2	IB	PBDEX_1614	PBDEX_1614	Tray1:8	1.500000
22	10-210913B22	L2623177-1	SAMPLE RX5	PBDEX_1614	PBDEX_1614	Tray1:22	1.500000
23	10-210913B23	L2623177-2	SAMPLE REWORK	PBDEX_1614	PBDEX_1614	Tray1:23	1.500000
24	10-210913B24	L2623177-3	SAMPLE RX5	PBDEX_1614	PBDEX_1614	Tray1:24	1.500000
25	10-210913B25	L2623177-4	SAMPLE REWORK	PBDEX_1614	PBDEX_1614	Tray1:25	1.500000
26	10-210913B26	L2625428-2 X5	DIL X5 RX 50	PBDEX_1614	PBDEX_1614	Tray1:21	1.500000
27	10-210913B27	L2623177-1 X5	DIL X5	PBDEX_1614	PBDEX_1614	Tray1:22	1.500000
28	10-210913B28	L2600174-3	SAMPLE	PBDEX_1614	PBDEX_1614	Tray1:26	1.500000
29	10-210913B29	WG3596493-2	LCS	PBDEX_1614	PBDEX_1614	Tray1:27	1.500000
30	10-210913B30	TOL1	IB	PBDEX_1614	PBDEX_1614	Tray1:7	1.500000
31	10-210913B31	WG3596493-1	MBLANK	PBDEX_1614	PBDEX_1614	Tray1:28	1.500000
32	10-210913B32	WG3555242-1	MBLANK	PBDEX_1614	PBDEX_1614	Tray1:29	1.500000
33	10-210913B33	H10-21-RS2-0123	PBDEX-RS#2-003	PBDEX_1614	PBDEX_1614	Tray1:6	1.500000
34	10-210913B34	H10-21-CCV-0124	PBDEX-CS#3-003	PBDEX_1614	PBDEX_1614	Tray1:1	1.500000
35	10-210913B35	H10-21-RS3-0123	PBDEX-RS#2-003	PBDEX_1614	PBDEX_1614	Tray1:10	1.500000
36	---	---	---	---	---	---	0.000000
37	---	Detector	370	---	---	---	0.000000
38	---	Op	EG	---	---	---	0.000000
39	---	Column	DB5 US0702425H	---	---	---	0.000000
40	---	---	---	---	---	---	0.000000

VP ✓ H10-21-RS2-0123 WRONG POSITION, INJECTED 10-210913B33

MR ✓

ICAL ✓

CCV ✓

WG3603564-2
L2623177-4, -2] 13C12 BDE 209 0% REC

	File Name	Sample ID	File Text	Sample Type	Na Conc A	Na Conc B	Na Conc C	Na Conc D	Na Conc E	Na Conc F	Na Conc G	Na Conc H	ES Conc 1	ES Conc 2	ES Conc 3	ES Conc 4	CS Conc	IS Conc 1	IS Conc 2
1	10-210913B05	H10-21-CS1-0123	PBDEX-CS#1-003	Standard	1	1.5	2	2.5	3	4	5	10	50	100	250	500	50	50	250
2	10-210913B04	H10-21-CS2-0123	PBDEX-CS#2-003	Standard	4	6	8	10	12	16	20	40	50	100	250	500	50	50	250
3	10-210913B03	H10-21-CCV-0123	PBDEX-CS#3-003	Standard	20	30	40	50	60	80	100	200	50	100	250	500	50	50	250
4	10-210913B07	H10-21-CS4-0123	PBDEX-CS#4-003	Standard	80	120	160	200	240	320	400	800	50	100	250	500	50	50	250
5	10-210913B06	H10-21-CS5-0123	PBDEX-CS#5-003	Standard	240	360	480	600	720	960	1200	2400	50	100	250	500	50	50	250
6	10-210913B08	H10-21-RS2-0123	PBDEX-RS#-003	Analyte	---	---	---	---	---	---	---	---	50	100	250	500	50	50	250
7	10-210913B09	WG3603564-2	LCS	QC	800	1200	1600	2000	2400	3200	4000	8000	2000	4000	10000	20000	2000	2000	10000
8	10-210913B10	WG3603574-2	LCS	QC	800	1200	1600	2000	2400	3200	4000	8000	2000	4000	10000	20000	2000	2000	10000
9	10-210913B11	WG3594968-2	LCS	QC	400	600	800	1000	1200	1600	2000	4000	1000	2000	5000	10000	2000	2000	10000
10	10-210913B12	TOL1	IB	Analyte	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
11	10-210913B13	TOL2	IB	Analyte	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
12	10-210913B14	WG3603564-1	MBLANK	Analyte	---	---	---	---	---	---	---	---	2000	4000	10000	20000	2000	2000	10000
13	10-210913B15	WG3603574-1	MBLANK	Analyte	---	---	---	---	---	---	---	---	2000	4000	10000	20000	2000	2000	10000
14	10-210913B16	WG3594968-1	MBLANK	Analyte	---	---	---	---	---	---	---	---	1000	2000	5000	10000	2000	2000	10000
15	10-210913B17	L2625428-1	SAMPLE	Analyte	---	---	---	---	---	---	---	---	2000	4000	10000	20000	2000	2000	10000
16	10-210913B18	L2625428-2	SAMPLE	Analyte	---	---	---	---	---	---	---	---	2000	4000	10000	20000	2000	2000	10000
17	10-210913B19	H10-21-CCV-0123	PBDEX-CS#3-20	QC	20	30	40	50	60	80	100	200	50	100	250	500	50	50	250
18	10-210913B20	TOL1	IB	Analyte	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
19	10-210913B21	TOL2	IB	Analyte	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
20	10-210913B22	L2623177-1	SAMPLE	Analyte	---	---	---	---	---	---	---	---	1000	2000	5000	10000	2000	2000	10000
21	10-210913B23	L2623177-2	SAMPLE	Analyte	---	---	---	---	---	---	---	---	1000	2000	5000	10000	2000	2000	10000
22	10-210913B24	L2623177-3	SAMPLE	Analyte	---	---	---	---	---	---	---	---	1000	2000	5000	10000	2000	2000	10000
23	10-210913B25	L2623177-4	SAMPLE	Analyte	---	---	---	---	---	---	---	---	1000	2000	5000	10000	2000	2000	10000
24	10-210913B26	L2625428-2 X5	DIL X5	Analyte	---	---	---	---	---	---	---	---	2000	4000	10000	20000	2000	2000	10000
25	10-210913B27	L2623177-1 X5	DIL X5	Analyte	---	---	---	---	---	---	---	---	1000	2000	5000	10000	2000	2000	10000
26	10-210913B28	L2600174-3	SAMPLE	Analyte	---	---	---	---	---	---	---	---	2000	4000	10000	20000	4000	2000	10000
27	10-210913B29	WG3596493-2	LCS	QC	800	1200	1600	2000	2400	3200	4000	8000	2000	4000	10000	20000	4000	2000	10000
28	10-210913B30	TOL1	IB	Analyte	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
29	10-210913B31	WG3596493-1	MBLANK	Analyte	---	---	---	---	---	---	---	---	2000	4000	10000	20000	4000	2000	10000
30	10-210913B32	WG3555242-1	MBLANK	Analyte	---	---	---	---	---	---	---	---	2000	4000	10000	20000	4000	2000	10000
31	10-210913B33	H10-21-RS2-0123	PBDEX-RS#2-003	QC	---	---	---	---	---	---	---	---	50	100	250	500	50	50	250
32	10-210913B34	H10-21-RS3-0123	PBDEX-RS#3-003	QC	20	30	40	50	60	80	100	200	50	100	250	500	50	50	250
33	10-210913B35	H10-21-CCV-0125	PBDEX-CS#3-20	QC	---	---	---	---	---	---	---	---	50	100	250	500	50	50	250

Sample Size

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Quantify Sample Summary Report **MassLynx MassLynx V4.1 SCN 901**

Dataset: I:\Organics Instrument\HIGHRES GCMS Completed Results Files\HR-10\2021\2109\10-210913B-ICAL-PBDE.qld

Last Altered: Tuesday, September 14, 2021 11:07:06 Eastern Daylight Time
Printed: Friday, September 17, 2021 10:50:04 Eastern Daylight Time

Method: C:\MassLynx\PBDE.PRO\MethDB\PBDEX-DB5-1-210913B.mdb 14 Sep 2021 10:56:36
Calibration: C:\MassLynx\PBDE.PRO\CurveDB\10-210913B-ICAL-PBDE.cdb 14 Sep 2021 11:07:06

Name: 10-210913B05, Date: 13-Sep-2021, Time: 19:32:22, ID: H10-21-CS1-0123, Description: PBDEX-CS#1-003, Vial: Tray1:2

	Target Analyte	#Hom	Total Area	Ion1 Area	Ion2 Area	Ra	Ra Fail=YES	RT	RRT	RT LCL	RT UCL	Conc.	%Rec	Mod.Comment	Noise 1	Noise 2
1	*BDE-1		22078.969	9893	12186	0.81	YES	4.89	0.96	4.86	4.93	1.1639427	116.4		33109	37741
2	BDE-2		26163.568	14871	11292	1.32	YES	5.00	0.98	4.96	5.03	0.93872682	93.9		33109	37741
3	BDE-3		35518.800	18188	17331	1.05	NO	5.11	1.00	5.08	5.15	1.0604435	106.0		33109	37741
4	*BDE-10		8474.796	2719	5756	0.47	NO	6.33	0.89	6.30	6.37	0.91339991	91.3		404	604
5	BDE-7		8197.885	2638	5560	0.47	NO	6.71	0.94	6.67	6.74	0.87770955	87.8		404	604
6	BDE-8/BDE-11		23703.294	7624	16079	0.47	NO	6.87	0.96	6.84	6.90	1.7695317	88.5		404	604
7	BDE-12/BDE-13		27538.275	9210	18328	0.50	NO	6.99	0.98	6.96	7.02	1.7789138	88.9		404	604
8	BDE-15		16379.090	5138	11241	0.46	NO	7.13	1.00	7.10	7.16	0.89211027	89.2		404	604
9	*BDE-30		5427.200	2858	2569	1.11	NO	7.83	0.90	7.79	7.86	0.93066777	93.1		828	910
10	BDE-32		7011.515	3545	3466	1.02	NO	8.28	0.96	8.25	8.32	0.87838831	87.8		828	910
11	BDE-17/BDE-25		10436.018	5201	5235	0.99	NO	8.44	0.97	8.40	8.47	1.7044873	85.2		828	910
12	BDE-28/BDE-33		11023.112	5660	5363	1.06	NO	8.67	1.00	8.64	8.71	1.7292984	86.5		828	910
13	BDE-35		7499.231	3804	3696	1.03	NO	8.83	1.02	8.79	8.86	0.85213491	85.2		828	910
14	BDE-37		7546.949	3748	3799	0.99	NO	9.02	1.04	8.98	9.05	0.85722110	85.7		828	910
15	*PBEB		7329.477	3750	3580	1.05	NO	9.03	0.90	8.99	9.06	0.83249290	83.2		360	295
16	*PBB-52		7837.094	4648	3189	1.46	NO	9.13	0.91	9.09	9.16	0.88111858	88.1		617	448
17	*HBB		6495.886	1790	4706	0.38	NO	10.01	1.00	9.98	10.04	0.88059147	88.1		291	404
18	*BDE-75		4276.777	1797	2480	0.72	NO	10.06	0.95	10.03	10.09	0.82720653	82.7		410	506
19	BDE-51		5309.887	2071	3238	0.64	NO	10.13	0.96	10.10	10.17	0.86575361	86.6		410	506
20	BDE-49		3111.544	1178	1933	0.61	NO	10.23	0.97	10.20	10.27	0.79636431	79.6		410	506
21	BDE-71		3536.967	1459	2078	0.70	NO	10.29	0.98	10.26	10.33	0.88098910	88.1		410	506
22	BDE-47		5002.502	2011	2991	0.67	NO	10.57	1.00	10.53	10.60	0.89404045	89.4		410	506
23	BDE-79		5112.065	1937	3175	0.61	NO	10.73	1.02	10.70	10.76	0.83648980	83.6		410	506
24	BDE-66		2955.688	1305	1651	0.79	NO	10.85	1.03	10.82	10.89	0.82362349	82.4		410	506
25	BDE-77		4255.589	1698	2558	0.66	NO	11.33	1.00	11.29	11.36	0.79344860	79.3		410	506
26	*PBB-101		12512.252	6496	6016	1.08	NO	11.46	1.01	11.43	11.50	1.7229251	86.1		591	544
27	*BDE-100		6351.471	3099	3252	0.95	NO	12.20	1.00	12.16	12.23	1.2260995	81.7		466	436
28	BDE-119/BDE-120		5188.016	2469	2719	0.91	NO	12.37	1.01	12.34	12.40	2.3037297	76.8		466	436
29	BDE-99		3862.212	1942	1920	1.01	NO	12.71	1.00	12.67	12.74	1.2629899	84.2		466	436
30	BDE-116		1841.959	926	916	1.01	NO	12.85	1.01	12.82	12.89	1.2561296	83.7		466	436
31	BDE-83		1998.551	1029	970	1.06	NO	12.99	1.02	12.96	13.03	1.2089494	80.6		466	436
32	BDE-118		2211.894	1054	1158	0.91	NO	13.12	1.03	13.08	13.15	1.1744057	78.3		466	436
33	BDE-85		2648.182	1414	1234	1.15	NO	13.60	0.99	13.57	13.63	1.2171299	81.1		466	436
34	BDE-126		3585.362	1919	1666	1.15	NO	13.76	1.00	13.73	13.80	1.2125085	80.8		466	436

Quantify Sample Summary Report **MassLynx MassLynx V4.1 SCN 901**

Dataset: I:\Organics Instrument\HIGHRES GCMS Completed Results Files\HR-10\2021\2109\10-210913B-ICAL-PBDE.qld

Last Altered: Tuesday, September 14, 2021 11:07:06 Eastern Daylight Time
Printed: Friday, September 17, 2021 10:50:04 Eastern Daylight Time

Name: 10-210913B05, Date: 13-Sep-2021, Time: 19:32:22, ID: H10-21-CS1-0123, Description: PBDEX-CS#1-003, Vial: Tray1:2

	Target Analyte	#Hom	Total Area	Ion1 Area	Ion2 Area	Ra	Ra Fail=YES	RT	RRT	RT LCL	RT UCL	Conc.	%Rec	Mod.Comment	Noise 1	Noise 2
35	BDE-105		2042.565	985	1057	0.93	NO	13.92	1.01	13.89	13.96	1.0739643	71.6		466	436
36	*PBB-153		7341.563	4320	3021	1.43	NO	14.10	1.00	14.06	14.13	1.7704146	88.5		348	659
37	*BDE-155		8925.425	5251	3675	1.43	NO	13.76	0.97	13.73	13.80	1.7349259	86.7		892	387
38	BDE-154		7824.492	4567	3257	1.40	NO	14.15	1.00	14.11	14.18	1.7806160	89.0		892	387
39	*BDE-153		3166.043	1915	1251	1.53	NO	14.87	1.00	14.84	14.91	1.6857307	84.3		945	803
40	BDE-140		3950.280	2348	1603	1.46	NO	15.33	1.01	15.29	15.36	1.7023582	85.1		945	803
41	BDE-138/BDE-166		4153.917	2246	1908	1.18	NO	15.87	1.07	15.83	15.90	3.2471227	81.2	EG210914MB	945	803
42	BDE-156		1196.192	717	479	1.50	NO	16.20	1.09	16.17	16.24	1.4464920	72.3	EG210914MB	945	803
43	BDE-128		1399.001	846	553	1.53	NO	16.82	0.99	16.79	16.86	1.4801753	74.0		945	803
44	*BDE-184		4297.850	2056	2242	0.92	NO	16.64	0.98	16.60	16.67	2.2278749	89.1	EG210914MB	257	316
45	BDE-183		2893.058	1478	1415	1.04	NO	17.01	1.00	16.98	17.04	2.2290119	89.2		257	316
46	BDE-191		1751.029	886	865	1.02	NO	17.57	1.03	17.54	17.61	2.1833068	87.3		257	316
47	BDE-181		1654.274	859	795	1.08	NO	18.11	1.01	18.08	18.14	2.0356003	81.4		257	316
48	BDE-190		1091.719	577	514	1.12	NO	18.27	1.02	18.24	18.31	1.9884499	79.5	EG210914MB	257	316
49	*PBB-180		1992.031	1076	916	1.17	NO	17.10	0.96	17.07	17.14	1.6578396	82.9	EG210914MB	640	302
50	*BDE-197		2153.679	977	1176	0.83	NO	19.49	1.00	19.46	19.52	2.0473976	81.9		346	471
51	BDE-203		1620.554	672	949	0.71	NO	19.77	1.01	19.73	19.80	2.1173277	84.7		346	471
52	BDE-196		1657.325	755	902	0.84	NO	19.89	1.02	19.86	19.93	1.8877937	75.5		346	471
53	*PBB-194		981.960	512	470	1.09	NO	19.97	1.03	19.94	20.00	1.4369658	71.8		235	184
54	*BDE-208		3385.178	1721	1664	1.03	NO	21.23	0.99	21.19	21.26	4.1881556	83.8	EG210914MB	776	630
55	BDE-207		3975.416	1943	2033	0.96	NO	21.34	1.00	21.31	21.38	4.2454735	84.9	EG210914MB	776	630
56	BDE-206		2777.255	1354	1423	0.95	NO	21.61	1.01	21.58	21.65	3.9248090	78.5	EG210914MB	776	630
57	*PBB-206		1518.716	742	777	0.95	NO	21.06	0.99	21.03	21.09	4.7303143	94.6		675	413
58	*PBB-209		1764.221	920	844	1.09	NO	21.97	1.03	21.93	22.00	4.8069861	96.1		287	336
59	*BDE-209		1045.756	554	492	1.13	NO	23.27	1.00	23.23	23.30	4.2997676	86.0	EG210914MB	163	212
60	*DBDPE		1390.205	676	715	0.95	NO	24.65	1.00	24.61	24.68	8.8050615	88.1		197	326
61	13C12-BDE-3		2102686.1...	1034225	1068462	0.97	NO	5.10	0.48	5.07	5.14	54.575253	109.2		1233	2387
62	13C12-BDE-15		1082857.8...	357803	725055	0.49	NO	7.13	0.67	7.10	7.16	51.521584	103.0		2449	6069
63	13C12-BDE-28		476680.751	240532	236149	1.02	NO	8.67	0.81	8.64	8.71	49.809882	99.6		833	1394
64	13C6-HBB		352171.063	254184	97987	2.59	NO	10.00	0.93	9.96	10.03	51.123748	102.2		1175	627
65	13C12-BDE-47		333350.391	201005	132346	1.52	NO	10.56	0.98	10.52	10.59	50.219726	100.4		1639	993
66	13C12-BDE-77		338722.844	204802	133921	1.53	NO	11.31	1.06	11.28	11.35	48.432513	96.9		1639	993
67	13C12-BDE-100		339546.578	171621	167926	1.02	NO	12.20	0.81	12.16	12.23	50.938514	101.9		2057	2196
68	13C12-BDE-99		185583.343	92768	92815	1.00	NO	12.69	0.84	12.66	12.73	47.481683	95.0		2057	2196
69	13C12-BDE-126		188779.242	95084	93696	1.01	NO	13.76	0.91	13.73	13.80	42.924412	85.8		2057	2196
70	13C12-BDE-154		240158.789	139997	100161	1.40	NO	14.13	0.93	14.10	14.17	44.592435	89.2		870	460
71	13C12-BDE-153		81001.816	47532	33470	1.42	NO	14.87	0.98	14.84	14.91	44.472107	88.9		1593	1056

Quantify Sample Summary Report **MassLynx MassLynx V4.1 SCN 901**

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Last Altered: Tuesday, September 14, 2021 11:07:06 Eastern Daylight Time
Printed: Friday, September 17, 2021 10:50:04 Eastern Daylight Time

Name: 10-210913B05, Date: 13-Sep-2021, Time: 19:32:22, ID: H10-21-CS1-0123, Description: PBDEX-CS#1-003, Vial: Tray1:2

	Target Analyte	#Hom	Total Area	Ion1 Area	Ion2 Area	Ra	Ra Fail=YES	RT	RRT	RT LCL	RT UCL	Conc.	%Rec	Mod.Comment	Noise 1	Noise 2
72	13C12-BDE-183		86892.270	43940	42953	1.02	NO	17.00	0.95	16.97	17.03	47.967546	95.9		449	603
73	13C12-BDE-197		133722.539	59930	73792	0.81	NO	19.48	1.09	19.44	19.51	95.667643	95.7		825	1410
74	13C12-BDE-207		257446.250	131511	125936	1.04	NO	21.34	0.99	21.31	21.38	245.52707	98.2		1463	1665
75	13C12-BDE-209		62972.034	35483	27489	1.29	NO	23.26	1.08	23.22	23.29	232.94192	93.2		1204	1020
76	13C14-DBDPE		88632.219	44525	44107	1.01	NO	24.65	1.14	24.61	24.68	439.44706	87.9		648	1198
77	13C12-BDE-138 (CL)		62677.244	36231	26446	1.37	NO	15.82	1.04	15.79	15.85	40.866875	81.7		1593	1056
78	13C12-BDE-79 (IS)		381117.266	226885	154232	1.47	NO	10.72	0.71	10.68	10.75	43.686600	87.4		1639	993
79	13C12-BDE-139 (IS)		107113.192	63110	44003	1.43	NO	15.14	0.00	15.11	15.17	42.503623	85.0		1593	1056
80	13C12-BDE-180 (IS)		42853.816	21901	20953	1.05	NO	17.88	1.18	17.84	17.91	36.463299	72.9		449	603
81	13C12-BDE-206 (IS)		197385.258	100130	97255	1.03	NO	21.60	1.43	21.57	21.64	136.71394	54.7		1463	1665
82	Total MoF1	3		42952								3.1631129			33109	
83	Total DiF2	5		27330								6.2316653			404	
84	Total TriF3	6		24816								6.9521979			828	
85	Total PBEBF3	1		3750								0.83249290			360	
86	Total TePBBF3	1		4648								0.88111858			617	
87	Total HBBF4	1		1790								0.88059147			291	
88	Total TetraF4	8		13457								6.7179159			410	
89	Total PePBBF4	1		6496								1.7229251			591	
90	Total PentaF5	9		14838								11.935907			466	
91	Total PBB-153	1		4320								1.7704146			348	
92	Total HexaF5	2		9818								3.5155419			892	
93	Total HexaF6	5		8073								9.5618790			945	
94	Total HeptaF6	5		5857								10.664244			257	
95	Total PBB-180	1		1076								1.6578396			640	
96	Total OctaF7	3		2404								6.0525190			346	
97	Total PBB-194	1		512								1.4369658			235	
98	Total NonaF8	3		5018								12.358438			776	
99	Total PBB-206	1		742								4.7303143			675	
100	Total PBB-209	1		920								4.8069861			287	
101	Total DecaF9	1		554								4.2997676			163	
102	Total DBDPEF10															
103	Total 13CMoF1	1		1034225								54.575253			1233	
104	Total 13CDiF2	1		357803								51.521584			2449	
105	Total 13CTriF3	1		240532								49.809882			833	
106	Total 13CHBBF4	1		254184								51.123748			1175	
107	Total 13CTetraF4	3		632691								142.33884			1639	
108	Total 13CPentaF5	3		359472								141.34461			2057	

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Name: 10-210913B05, Date: 13-Sep-2021, Time: 19:32:22, ID: H10-21-CS1-0123, Description: PBDEX-CS#1-003, Vial: Tray1:2

	Target Analyte	#Hom	Total Area	Ion1 Area	Ion2 Area	Ra	Ra Fail=YES	RT	RRT	RT LCL	RT UCL	Conc.	%Rec	Mod.Comment	Noise 1	Noise 2
109	Total 13CHexaF5	1		139997								44.592435			870	
110	Total 13CHexaF6	3		146873								127.84261			1593	
111	Total 13CHeptaF6	2		65840								84.430845			449	
112	Total 13COctaF7	1		59930								95.667643			825	
113	Total 13CNonaF8	2		231641								382.24102			1463	
114	Total 13CDecaF9	1		35483								232.94192			1204	
115	Total 13CDBDPEF10															
116	Lockmass F1			0											286119	
117	Lockmass F2			0											510075	
118	Lockmass F3			0											333727	
119	Lockmass F4			0											105856	
120	Lockmass F5			0											55402	
121	Lockmass F6			0											26321	
122	Lockmass F7			0											14361	
123	Lockmass F8			0											19574	
124	Lockmass F9			0											26047	
125	Lockmass F10															

Quantify Sample Summary Report **MassLynx MassLynx V4.1 SCN 901**

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Last Altered: Tuesday, September 14, 2021 11:07:06 Eastern Daylight Time
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Name: 10-210913B04, Date: 13-Sep-2021, Time: 18:57:29, ID: H10-21-CS2-0123, Description: PBDEX-CS#2-003, Vial: Tray1:3

	Target Analyte	#Hom	Total Area	Ion1 Area	Ion2 Area	Ra	Ra Fail=YES	RT	RRT	RT LCL	RT UCL	Conc.	%Rec	Mod.Comment	Noise 1	Noise 2
1	*BDE-1		78275.137	38274	40001	0.96	NO	4.91	0.96	4.88	4.95	3.8879182	97.2		29055	52393
2	BDE-2		117503.609	57701	59802	0.96	NO	5.01	0.98	4.97	5.04	3.9722260	99.3		29055	52393
3	BDE-3		141142.476	68702	72440	0.95	NO	5.12	1.00	5.09	5.16	3.9703377	99.3		29055	52393
4	*BDE-10		40856.896	13127	27730	0.47	NO	6.33	0.89	6.30	6.37	3.7682048	94.2		628	766
5	BDE-7		41699.343	13566	28134	0.48	NO	6.71	0.94	6.68	6.75	3.8204598	95.5		628	766
6	BDE-8/BDE-11		121541.558	39341	82201	0.48	NO	6.88	0.96	6.85	6.91	7.7644708	97.1		628	766
7	BDE-12/BDE-13		139934.207	45819	94115	0.49	NO	7.00	0.98	6.97	7.03	7.7353414	96.7		628	766
8	BDE-15		84456.069	27882	56574	0.49	NO	7.14	1.00	7.11	7.17	3.9363803	98.4		628	766
9	*BDE-30		26479.080	13415	13064	1.03	NO	7.84	0.90	7.80	7.87	3.6663648	91.7		1032	790
10	BDE-32		37645.769	18832	18813	1.00	NO	8.28	0.96	8.25	8.32	3.8080688	95.2		1032	790
11	BDE-17/BDE-25		58027.689	28974	29053	1.00	NO	8.45	0.97	8.42	8.48	7.6525851	95.7		1032	790
12	BDE-28/BDE-33		61041.190	30641	30401	1.01	NO	8.68	1.00	8.65	8.72	7.7321924	96.7		1032	790
13	BDE-35		40449.562	20302	20148	1.01	NO	8.83	1.02	8.79	8.86	3.7112429	92.8		1032	790
14	BDE-37		40253.537	20422	19831	1.03	NO	9.02	1.04	8.98	9.05	3.6918106	92.3		1032	790
15	*PBEB		40215.609	20780	19435	1.07	NO	9.03	0.90	8.99	9.06	3.5874173	89.7		341	386
16	*PBB-52		39748.052	24215	15533	1.56	NO	9.13	0.91	9.09	9.16	3.5097393	87.7		737	687
17	*HBB		35557.493	10137	25421	0.40	NO	10.01	1.00	9.98	10.04	3.7857063	94.6		394	396
18	*BDE-75		23612.814	9447	14166	0.67	NO	10.07	0.95	10.04	10.10	3.5017868	87.5		682	862
19	BDE-51		30028.724	11984	18045	0.66	NO	10.13	0.96	10.10	10.17	3.7539676	93.8		682	862
20	BDE-49		18152.100	7119	11033	0.65	NO	10.23	0.97	10.20	10.27	3.5621099	89.1		682	862
21	BDE-71		18380.988	7440	10941	0.68	NO	10.31	0.98	10.27	10.34	3.5103707	87.8		682	862
22	BDE-47		26056.577	10191	15865	0.64	NO	10.57	1.00	10.53	10.60	3.6682680	91.7		682	862
23	BDE-79		30411.952	11867	18545	0.64	NO	10.73	1.02	10.70	10.76	3.8155152	95.4		682	862
24	BDE-66		16691.912	6321	10371	0.61	NO	10.85	1.03	10.82	10.89	3.5663242	89.2		682	862
25	BDE-77		26345.034	10888	15457	0.70	NO	11.33	1.00	11.29	11.36	3.6699536	91.7		682	862
26	*PBB-101		69115.766	34729	34387	1.01	NO	11.46	1.01	11.43	11.50	7.2971394	91.2		642	558
27	*BDE-100		36594.265	18276	18319	1.00	NO	12.21	1.00	12.18	12.24	5.5199308	92.0		878	1125
28	BDE-119/BDE-120		32581.277	16445	16136	1.02	NO	12.37	1.01	12.34	12.40	10.628173	88.6		878	1125
29	BDE-99		23481.479	11915	11566	1.03	NO	12.71	1.00	12.67	12.74	5.5286577	92.1		878	1125
30	BDE-116		10509.037	5319	5190	1.02	NO	12.87	1.01	12.83	12.90	5.2647495	87.7		878	1125
31	BDE-83		12077.677	6160	5918	1.04	NO	12.99	1.02	12.96	13.03	5.3670615	89.5		878	1125
32	BDE-118		13534.694	6900	6635	1.04	NO	13.12	1.03	13.08	13.15	5.2791325	88.0		878	1125
33	BDE-85		15380.000	7857	7523	1.04	NO	13.60	0.99	13.57	13.63	5.1928495	86.5		878	1125
34	BDE-126		24350.925	12285	12065	1.02	NO	13.77	1.00	13.74	13.81	5.5617795	92.7		878	1125
35	BDE-105		13400.941	6888	6513	1.06	NO	13.92	1.01	13.89	13.96	5.1761819	86.3		878	1125
36	*PBB-153		43603.383	25184	18420	1.37	NO	14.10	1.00	14.06	14.13	7.4291307	92.9		298	758
37	*BDE-155		55856.038	32131	23725	1.35	NO	13.76	0.97	13.73	13.80	7.6710269	95.9		577	289

Quantify Sample Summary Report **MassLynx MassLynx V4.1 SCN 901**

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Name: 10-210913B04, Date: 13-Sep-2021, Time: 18:57:29, ID: H10-21-CS2-0123, Description: PBDEX-CS#2-003, Vial: Tray1:3

	Target Analyte	#Hom	Total Area	Ion1 Area	Ion2 Area	Ra	Ra Fail=YES	RT	RRT	RT LCL	RT UCL	Conc.	%Rec	Mod.Comment	Noise 1	Noise 2
38	BDE-154		46919.318	27117	19803	1.37	NO	14.15	1.00	14.11	14.18	7.6150965	95.2		577	289
39	*BDE-153		19939.630	11851	8088	1.47	NO	14.88	1.00	14.85	14.92	7.2987546	91.2		1530	737
40	BDE-140		24229.039	14201	10028	1.42	NO	15.34	1.01	15.31	15.37	7.3771839	92.2		1530	737
41	BDE-138/BDE-166		25726.511	15124	10603	1.43	NO	15.87	1.07	15.83	15.90	14.208660	88.8	EG210914MJ	1530	737
42	BDE-156		8097.575	4682	3416	1.37	NO	16.20	1.09	16.17	16.24	6.9183335	86.5	EG210914MB	1530	737
43	BDE-128		9138.329	5381	3757	1.43	NO	16.84	0.99	16.80	16.87	6.8311415	85.4	EG210914MB	1530	737
44	*BDE-184		25343.381	12870	12474	1.03	NO	16.64	0.98	16.60	16.67	8.5625805	85.6		428	478
45	BDE-183		17458.053	8961	8497	1.05	NO	17.01	1.00	16.98	17.04	8.7670124	87.7		428	478
46	BDE-191		9977.803	5229	4749	1.10	NO	17.57	1.03	17.54	17.61	8.1088063	81.1		428	478
47	BDE-181		10699.404	5255	5445	0.96	NO	18.12	1.01	18.09	18.16	8.5811447	85.8		428	478
48	BDE-190		7324.719	3792	3533	1.07	NO	18.27	1.02	18.24	18.31	8.6955153	87.0		428	478
49	*PBB-180		12675.825	6190	6486	0.95	NO	17.12	0.96	17.08	17.15	6.8757996	85.9		639	327
50	*BDE-197		16194.262	7038	9156	0.77	NO	19.49	1.00	19.46	19.52	9.1844776	91.8		491	657
51	BDE-203		10585.702	4751	5835	0.81	NO	19.77	1.01	19.73	19.80	8.2511850	82.5		491	657
52	BDE-196		11554.901	5143	6412	0.80	NO	19.91	1.02	19.87	19.94	7.8520878	78.5		491	657
53	*PBB-194		6775.009	3766	3009	1.25	NO	19.97	1.02	19.94	20.00	5.9147252	73.9		317	283
54	*BDE-208		26724.106	13352	13372	1.00	NO	21.23	0.99	21.19	21.26	15.967732	79.8		731	690
55	BDE-207		34081.830	17007	17075	1.00	NO	21.35	1.00	21.32	21.39	17.577828	87.9		731	690
56	BDE-206		29473.851	15003	14471	1.04	NO	21.63	1.01	21.59	21.66	20.115850	100.6		731	690
57	*PBB-206		10054.826	5167	4888	1.06	NO	21.07	0.99	21.04	21.11	15.124698	75.6		769	1020
58	*PBB-209		11617.387	6578	5039	1.31	NO	21.97	1.03	21.93	22.00	15.287169	76.4		511	433
59	*BDE-209		10713.075	6040	4673	1.29	NO	23.28	1.00	23.24	23.31	17.667762	88.3		341	374
60	*DBDPE		16575.687	8445	8131	1.04	NO	24.67	1.00	24.64	24.70	33.877807	84.7		248	372
61	13C12-BDE-3		2231690.5...	1097559	1134132	0.97	NO	5.11	0.48	5.08	5.15	44.919981	89.8		1329	2078
62	13C12-BDE-15		1265418.0...	422428	842990	0.50	NO	7.13	0.66	7.10	7.16	46.691313	93.4		2223	4420
63	13C12-BDE-28		590355.594	296521	293834	1.01	NO	8.67	0.81	8.64	8.71	47.839417	95.7		1442	1180
64	13C6-HBB		448408.633	323020	125389	2.58	NO	10.01	0.93	9.98	10.04	50.480922	101.0		849	814
65	13C12-BDE-47		423181.984	255837	167345	1.53	NO	10.56	0.98	10.52	10.59	49.440726	98.9		1182	1639
66	13C12-BDE-77		453358.532	276610	176748	1.57	NO	11.33	1.06	11.29	11.36	50.271126	100.5		1182	1639
67	13C12-BDE-100		434540.407	219831	214709	1.02	NO	12.20	0.81	12.16	12.23	44.845114	89.7		3199	2222
68	13C12-BDE-99		257755.844	131794	125962	1.05	NO	12.69	0.84	12.66	12.73	45.366334	90.7		3199	2222
69	13C12-BDE-126		279516.672	138657	140860	0.98	NO	13.76	0.91	13.73	13.80	43.721584	87.4		3199	2222
70	13C12-BDE-154		336735.484	194948	141787	1.37	NO	14.13	0.93	14.10	14.17	43.012000	86.0		1455	491
71	13C12-BDE-153		117824.196	69920	47904	1.46	NO	14.87	0.98	14.84	14.91	44.500562	89.0		1540	1264
72	13C12-BDE-183		133315.477	66994	66322	1.01	NO	17.01	0.95	16.98	17.04	44.124519	88.2		642	915
73	13C12-BDE-197		224146.797	102717	121430	0.85	NO	19.49	1.09	19.46	19.52	96.144857	96.1		1263	1335
74	13C12-BDE-207		533074.407	268225	264849	1.01	NO	21.34	0.99	21.31	21.38	234.65622	93.9		2887	1924

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	Target Analyte	#Hom	Total Area	Ion1 Area	Ion2 Area	Ra	Ra Fail=YES	RT	RRT	RT LCL	RT UCL	Conc.	%Rec	Mod.Comment	Noise 1	Noise 2
75	13C12-BDE-209		156998.297	88122	68876	1.28	NO	23.27	1.08	23.23	23.30	268.05648	107.2		980	1227
76	13C14-DBDPE		274663.797	140179	134485	1.04	NO	24.66	1.14	24.63	24.69	628.56152	125.7		859	1058
77	13C12-BDE-138 (CL)		102396.223	59566	42830	1.39	NO	15.83	1.05	15.80	15.86	45.928634	91.9		1540	1264
78	13C12-BDE-79 (IS)		491444.328	296148	195296	1.52	NO	10.73	0.71	10.70	10.76	56.333138	112.7		1182	1639
79	13C12-BDE-139 (IS)		155705.843	92722	62983	1.47	NO	15.14	0.00	15.11	15.17	61.785690	123.6		1540	1264
80	13C12-BDE-180 (IS)		71475.375	36283	35192	1.03	NO	17.88	1.18	17.84	17.91	60.816707	121.6		642	915
81	13C12-BDE-206 (IS)		427644.891	216265	211380	1.02	NO	21.61	1.43	21.58	21.65	296.19750	118.5		2887	1924
82	Total MoF1	3		164678								11.830482			29055	
83	Total DiF2	5		139734								27.024857			628	
84	Total TriF3	6		132586								30.262265			1032	
85	Total PBEBF3	1		20780								3.5874173			341	
86	Total TePBBF3	1		24215								3.5097393			737	
87	Total HBBF4	1		10137								3.7857063			394	
88	Total TetraF4	8		75255								29.048296			682	
89	Total PePBBF4	1		34729								7.2971394			642	
90	Total PentaF5	9		92046								53.518515			878	
91	Total PBB-153	1		25184								7.4291307			298	
92	Total HexaF5	2		59248								15.286123			577	
93	Total HexaF6	5		51239								42.634074			1530	
94	Total HeptaF6	5		36106								42.715059			428	
95	Total PBB-180	1		6190								6.8757996			639	
96	Total OctaF7	3		16932								25.287750			491	
97	Total PBB-194	1		3766								5.9147252			317	
98	Total NonaF8	3		45362								53.661409			731	
99	Total PBB-206	1		5167								15.124698			769	
100	Total PBB-209	1		6578								15.287169			511	
101	Total DecaF9	1		6040								17.667762			341	
102	Total DBDPEF10															
103	Total 13CMoF1	1		1097559								44.919981			1329	
104	Total 13CDiF2	1		422428								46.691313			2223	
105	Total 13CTriF3	1		296521								47.839417			1442	
106	Total 13CHBBF4	1		323020								50.480922			849	
107	Total 13CTetraF4	3		828596								156.04499			1182	
108	Total 13CPentaF5	3		490282								133.93303			3199	
109	Total 13CHexaF5	1		194948								43.012000			1455	
110	Total 13CHexaF6	3		222208								152.21489			1540	
111	Total 13CHeptaF6	2		103277								104.94123			642	

Quantify Sample Summary Report **MassLynx MassLynx V4.1 SCN 901**

Dataset: I:\Organics Instrument\HIGHRES GCMS Completed Results Files\HR-10\2021\2109\10-210913B-ICAL-PBDE.qld

Last Altered: Tuesday, September 14, 2021 11:07:06 Eastern Daylight Time
Printed: Friday, September 17, 2021 10:50:04 Eastern Daylight Time

Name: 10-210913B04, Date: 13-Sep-2021, Time: 18:57:29, ID: H10-21-CS2-0123, Description: PBDEX-CS#2-003, Vial: Tray1:3

	Target Analyte	#Hom	Total Area	Ion1 Area	Ion2 Area	Ra	Ra Fail=YES	RT	RRT	RT LCL	RT UCL	Conc.	%Rec	Mod.Comment	Noise 1	Noise 2
112	Total 13COctaF7	1		102717								96.144857			1263	
113	Total 13CNonaF8	2		484490								530.85372			2887	
114	Total 13CDecaF9	1		88122								268.05648			980	
115	Total 13CDBDPEF10															
116	Lockmass F1			0											235409	
117	Lockmass F2			0											484502	
118	Lockmass F3			0											368393	
119	Lockmass F4			0											107543	
120	Lockmass F5			0											79384	
121	Lockmass F6			0											26444	
122	Lockmass F7			0											16307	
123	Lockmass F8			0											18263	
124	Lockmass F9			0											20870	
125	Lockmass F10															

Quantify Sample Summary Report **MassLynx MassLynx V4.1 SCN 901**

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Last Altered: Tuesday, September 14, 2021 11:07:06 Eastern Daylight Time
Printed: Friday, September 17, 2021 10:50:04 Eastern Daylight Time

Name: 10-210913B03, Date: 13-Sep-2021, Time: 18:23:00, ID: H10-21-CCV-0123, Description: PBDEX-CS#3-003, Vial: Tray1:1

	Target Analyte	#Hom	Total Area	Ion1 Area	Ion2 Area	Ra	Ra Fail=YES	RT	RRT	RT LCL	RT UCL	Conc.	%Rec	Mod.Comment	Noise 1	Noise 2
1	*BDE-1		355990.750	178363	177628	1.00	NO	4.90	0.96	4.87	4.94	18.713661	93.6		27560	49299
2	BDE-2		563320.781	278951	284370	0.98	NO	5.01	0.98	4.97	5.04	20.154187	100.8		27560	49299
3	BDE-3		660158.063	328443	331715	0.99	NO	5.11	1.00	5.08	5.15	19.653704	98.3		27560	49299
4	*BDE-10		212239.125	70257	141982	0.49	NO	6.33	0.89	6.30	6.37	20.070412	100.4		360	1053
5	BDE-7		220705.469	73117	147588	0.50	NO	6.71	0.94	6.67	6.74	20.732956	103.7		360	1053
6	BDE-8/BDE-11		624127.360	206922	417205	0.50	NO	6.87	0.96	6.84	6.90	40.881045	102.2		360	1053
7	BDE-12/BDE-13		714848.672	239351	475497	0.50	NO	6.99	0.98	6.96	7.02	40.516453	101.3		360	1053
8	BDE-15		435771.125	144534	291238	0.50	NO	7.14	1.00	7.11	7.17	20.825064	104.1		360	1053
9	*BDE-30		143934.266	72595	71339	1.02	NO	7.83	0.90	7.79	7.86	20.402157	102.0		1407	1946
10	BDE-32		201711.875	101863	99848	1.02	NO	8.28	0.96	8.25	8.32	20.888112	104.4		1407	1946
11	BDE-17/BDE-25		308026.125	154269	153757	1.00	NO	8.45	0.97	8.42	8.48	41.585272	104.0		1407	1946
12	BDE-28/BDE-33		321442.454	161494	159949	1.01	NO	8.67	1.00	8.64	8.71	41.683291	104.2		1407	1946
13	BDE-35		223953.226	112851	111102	1.02	NO	8.83	1.02	8.79	8.86	21.034974	105.2		1407	1946
14	BDE-37		222793.258	112271	110522	1.02	NO	9.02	1.04	8.98	9.05	20.917824	104.6		1407	1946
15	*PBEB		216262.250	111084	105179	1.06	NO	9.03	0.90	8.99	9.06	20.075254	100.4		396	355
16	*PBB-52		213374.578	128453	84921	1.51	NO	9.13	0.91	9.09	9.16	19.606260	98.0		1169	547
17	*HBB		187883.480	53442	134442	0.40	NO	10.01	1.00	9.98	10.04	20.816008	104.1		462	635
18	*BDE-75		132769.063	52902	79867	0.66	NO	10.07	0.95	10.04	10.10	20.083210	100.4		1266	2263
19	BDE-51		159295.957	64273	95023	0.68	NO	10.13	0.96	10.10	10.17	20.311999	101.6		1266	2263
20	BDE-49		105328.239	42254	63074	0.67	NO	10.23	0.97	10.20	10.27	21.082376	105.4		1266	2263
21	BDE-71		100263.441	40124	60140	0.67	NO	10.29	0.98	10.26	10.33	19.530844	97.7		1266	2263
22	BDE-47		144039.933	58067	85973	0.68	NO	10.57	1.00	10.53	10.60	20.844882	104.2		1266	2263
23	BDE-79		166115.649	67348	98768	0.68	NO	10.73	1.02	10.70	10.76	21.257575	106.3		1266	2263
24	BDE-66		94560.289	38726	55834	0.69	NO	10.85	1.03	10.82	10.89	20.607144	103.0		1266	2263
25	BDE-77		146636.782	58874	87763	0.67	NO	11.33	1.00	11.29	11.36	20.685637	103.4		1266	2263
26	*PBB-101		369519.360	186652	182868	1.02	NO	11.46	1.01	11.43	11.50	39.793028	99.5		592	784
27	*BDE-100		203874.664	103064	100811	1.02	NO	12.20	1.00	12.16	12.23	31.819056	106.1		1103	1393
28	BDE-119/BDE-120		187326.500	94869	92458	1.03	NO	12.37	1.01	12.34	12.40	61.243203	102.1		1103	1393
29	BDE-99		131604.816	66295	65310	1.02	NO	12.71	1.00	12.67	12.74	31.435332	104.8		1103	1393
30	BDE-116		60798.586	30715	30083	1.02	NO	12.85	1.01	12.82	12.89	30.526460	101.8		1103	1393
31	BDE-83		71102.551	35418	35685	0.99	NO	12.99	1.02	12.96	13.03	31.666971	105.6		1103	1393
32	BDE-118		83012.848	40839	42174	0.97	NO	13.12	1.03	13.08	13.15	32.450965	108.2		1103	1393
33	BDE-85		91559.274	46331	45228	1.02	NO	13.60	0.99	13.57	13.63	30.982747	103.3		1103	1393
34	BDE-126		144181.320	72001	72180	1.00	NO	13.76	1.00	13.73	13.80	31.139547	103.8		1103	1393
35	BDE-105		77626.469	39100	38526	1.01	NO	13.92	1.01	13.89	13.96	30.050538	100.2		1103	1393
36	*PBB-153		247887.243	142672	105215	1.36	NO	14.10	1.00	14.06	14.13	40.449659	101.1		585	1089
37	*BDE-155		312248.766	179650	132598	1.35	NO	13.76	0.97	13.73	13.80	41.070216	102.7		670	474

Quantify Sample Summary Report **MassLynx MassLynx V4.1 SCN 901**

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Last Altered: Tuesday, September 14, 2021 11:07:06 Eastern Daylight Time
Printed: Friday, September 17, 2021 10:50:04 Eastern Daylight Time

Name: 10-210913B03, Date: 13-Sep-2021, Time: 18:23:00, ID: H10-21-CCV-0123, Description: PBDEX-CS#3-003, Vial: Tray1:1

	Target Analyte	#Hom	Total Area	Ion1 Area	Ion2 Area	Ra	Ra Fail=YES	RT	RRT	RT LCL	RT UCL	Conc.	%Rec	Mod.Comment	Noise 1	Noise 2
38	BDE-154		267986.726	155373	112614	1.38	NO	14.13	1.00	14.10	14.17	41.407004	103.5		670	474
39	*BDE-153		117134.168	67755	49379	1.37	NO	14.88	1.00	14.85	14.92	41.782416	104.5		3328	1430
40	BDE-140		140288.274	81085	59203	1.37	NO	15.33	1.01	15.29	15.36	40.908982	102.3		3328	1430
41	BDE-138/BDE-166		155421.938	90631	64791	1.40	NO	15.87	1.07	15.83	15.90	82.210528	102.8		3328	1430
42	BDE-156		49165.215	29036	20129	1.44	NO	16.20	1.09	16.17	16.24	40.229750	100.6		3328	1430
43	BDE-128		56015.625	33417	22598	1.48	NO	16.82	0.99	16.79	16.86	40.103156	100.3		3328	1430
44	*BDE-184		155802.898	77865	77938	1.00	NO	16.64	0.98	16.60	16.67	49.801012	99.6		860	362
45	BDE-183		108999.152	55024	53975	1.02	NO	17.01	1.00	16.98	17.04	51.784699	103.6		860	362
46	BDE-191		64900.799	32680	32221	1.01	NO	17.57	1.03	17.54	17.61	49.899314	99.8		860	362
47	BDE-181		66935.067	33302	33633	0.99	NO	18.11	1.01	18.08	18.14	50.788089	101.6		860	362
48	BDE-190		44496.404	22598	21899	1.03	NO	18.27	1.02	18.24	18.31	49.974884	99.9		860	362
49	*PBB-180		79307.144	39731	39576	1.00	NO	17.12	0.96	17.08	17.15	40.698820	101.7		931	538
50	*BDE-197		93265.261	41260	52005	0.79	NO	19.49	1.00	19.46	19.52	51.460179	102.9		945	1421
51	BDE-203		66030.108	29029	37001	0.78	NO	19.77	1.01	19.73	19.80	50.072209	100.1		945	1421
52	BDE-196		73762.885	32645	41117	0.79	NO	19.89	1.02	19.86	19.93	48.765749	97.5		945	1421
53	*PBB-194		43560.297	24708	18852	1.31	NO	19.97	1.02	19.94	20.00	36.997605	92.5		417	411
54	*BDE-208		176928.836	89254	87675	1.02	NO	21.23	0.99	21.19	21.26	95.449712	95.4		1670	1266
55	BDE-207		224387.484	112569	111818	1.01	NO	21.34	1.00	21.31	21.38	104.49052	104.5		1670	1266
56	BDE-206		173834.399	87812	86023	1.02	NO	21.61	1.01	21.58	21.65	107.12065	107.1		1670	1266
57	*PBB-206		69230.379	35397	33834	1.05	NO	21.07	0.99	21.04	21.11	94.025324	94.0		968	1060
58	*PBB-209		78737.457	43719	35018	1.25	NO	21.97	1.03	21.93	22.00	93.548315	93.5		1127	1131
59	*BDE-209		61935.840	34914	27022	1.29	NO	23.27	1.00	23.23	23.30	99.799761	99.8		544	602
60	*DBDPE		96658.742	48550	48109	1.01	NO	24.66	1.00	24.63	24.69	202.27574	101.1		539	440
61	13C12-BDE-3		2108663.1...	1036781	1071882	0.97	NO	5.10	0.48	5.07	5.14	43.925074	87.9		1103	2141
62	13C12-BDE-15		1234162.4...	408117	826045	0.49	NO	7.13	0.67	7.10	7.16	47.127464	94.3		2134	7045
63	13C12-BDE-28		576679.594	292745	283935	1.03	NO	8.67	0.81	8.64	8.71	48.362247	96.7		1421	960
64	13C6-HBB		430904.367	311234	119671	2.60	NO	10.00	0.93	9.96	10.03	50.203489	100.4		818	680
65	13C12-BDE-47		411674.860	248091	163584	1.52	NO	10.56	0.98	10.52	10.59	49.775050	99.6		1740	1508
66	13C12-BDE-77		447690.251	272519	175171	1.56	NO	11.31	1.06	11.28	11.35	51.375274	102.8		1740	1508
67	13C12-BDE-100		419978.188	212768	207210	1.03	NO	12.20	0.81	12.16	12.23	45.119735	90.2		1232	1119
68	13C12-BDE-99		254071.820	129628	124444	1.04	NO	12.69	0.84	12.66	12.73	46.551802	93.1		1232	1119
69	13C12-BDE-126		295598.844	146754	148844	0.99	NO	13.76	0.91	13.73	13.80	48.133311	96.3		1232	1119
70	13C12-BDE-154		353713.859	205180	148534	1.38	NO	14.13	0.93	14.10	14.17	47.033539	94.1		1128	550
71	13C12-BDE-153		120908.324	70697	50211	1.41	NO	14.87	0.98	14.84	14.91	47.538124	95.1		1535	761
72	13C12-BDE-183		140915.266	69939	70977	0.99	NO	17.00	0.95	16.97	17.03	44.968279	89.9		569	727
73	13C12-BDE-197		230395.743	102679	127716	0.80	NO	19.49	1.09	19.46	19.52	95.283297	95.3		999	722
74	13C12-BDE-207		590407.500	297721	292687	1.02	NO	21.34	0.99	21.31	21.38	247.09846	98.8		1250	1386

Quantify Sample Summary Report **MassLynx MassLynx V4.1 SCN 901**

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Name: 10-210913B03, Date: 13-Sep-2021, Time: 18:23:00, ID: H10-21-CCV-0123, Description: PBDEX-CS#3-003, Vial: Tray1:1

	Target Analyte	#Hom	Total Area	Ion1 Area	Ion2 Area	Ra	Ra Fail=YES	RT	RRT	RT LCL	RT UCL	Conc.	%Rec	Mod.Comment	Noise 1	Noise 2
75	13C12-BDE-209		160684.828	89494	71191	1.26	NO	23.26	1.08	23.22	23.29	260.84359	104.3		823	1646
76	13C14-DBDPE		268251.719	137277	130975	1.05	NO	24.65	1.14	24.61	24.68	583.66387	116.7		907	1226
77	13C12-BDE-138 (CL)		106960.625	62384	44576	1.40	NO	15.82	1.04	15.79	15.85	49.943429	99.9		1535	761
78	13C12-BDE-79 (IS)		474869.891	286393	188477	1.52	NO	10.72	0.71	10.68	10.75	54.433249	108.9		1740	1508
79	13C12-BDE-139 (IS)		149571.922	87834	61738	1.42	NO	15.14	0.00	15.11	15.17	59.351686	118.7		1535	761
80	13C12-BDE-180 (IS)		74132.328	37168	36964	1.01	NO	17.88	1.18	17.84	17.91	63.077445	126.2		569	727
81	13C12-BDE-206 (IS)		449789.547	226334	223456	1.01	NO	21.61	1.43	21.58	21.65	311.53544	124.6		1250	1386
82	Total MoF1	3		785756								58.521552			27560	
83	Total DiF2	5		734182								143.02593			360	
84	Total TriF3	6		715344								166.51163			1407	
85	Total PBEBF3	1		111084								20.075254			396	
86	Total TePBBF3	1		128453								19.606260			1169	
87	Total HBBF4	1		53442								20.816008			462	
88	Total TetraF4	8		422568								164.40367			1266	
89	Total PePBBF4	1		186652								39.793028			592	
90	Total PentaF5	9		528631								311.31482			1103	
91	Total PBB-153	1		142672								40.449659			585	
92	Total HexaF5	2		335023								82.477221			670	
93	Total HexaF6	5		301925								245.23483			3328	
94	Total HeptaF6	5		221470								252.24800			860	
95	Total PBB-180	1		39731								40.698820			931	
96	Total OctaF7	3		102935								150.29814			945	
97	Total PBB-194	1		24708								36.997605			417	
98	Total NonaF8	3		289635								307.06088			1670	
99	Total PBB-206	1		35397								94.025324			968	
100	Total PBB-209	1		43719								93.548315			1127	
101	Total DecaF9	1		34914								99.799761			544	
102	Total DBDPEF10															
103	Total 13CMoF1	1		1036781								43.925074			1103	
104	Total 13CDiF2	1		408117								47.127464			2134	
105	Total 13CTriF3	1		292745								48.362247			1421	
106	Total 13CHBBF4	1		311234								50.203489			818	
107	Total 13CTetraF4	3		807003								155.58357			1740	
108	Total 13CPentaF5	3		489150								139.80485			1232	
109	Total 13CHexaF5	1		205180								47.033539			1128	
110	Total 13CHexaF6	3		220916								156.83324			1535	
111	Total 13CHeptaF6	2		107107								108.04572			569	

Quantify Sample Summary Report **MassLynx MassLynx V4.1 SCN 901**

Dataset: I:\Organics Instrument\HIGHRES GCMS Completed Results Files\HR-10\2021\2109\10-210913B-ICAL-PBDE.qld

Last Altered: Tuesday, September 14, 2021 11:07:06 Eastern Daylight Time
Printed: Friday, September 17, 2021 10:50:04 Eastern Daylight Time

Name: 10-210913B03, Date: 13-Sep-2021, Time: 18:23:00, ID: H10-21-CCV-0123, Description: PBDEX-CS#3-003, Vial: Tray1:1

	Target Analyte	#Hom	Total Area	Ion1 Area	Ion2 Area	Ra	Ra Fail=YES	RT	RRT	RT LCL	RT UCL	Conc.	%Rec	Mod.Comment	Noise 1	Noise 2
112	Total 13COctaF7	1		102679								95.283297			999	
113	Total 13CNonaF8	2		524055								558.63390			1250	
114	Total 13CDecaF9	1		89494								260.84359			823	
115	Total 13CDBDPEF10															
116	Lockmass F1			0											220422	
117	Lockmass F2			0											471028	
118	Lockmass F3			0											368217	
119	Lockmass F4			0											138930	
120	Lockmass F5			0											69899	
121	Lockmass F6			0											28211	
122	Lockmass F7			0											15124	
123	Lockmass F8			0											11748	
124	Lockmass F9			0											22510	
125	Lockmass F10															

Quantify Sample Summary Report **MassLynx MassLynx V4.1 SCN 901**

Dataset: I:\Organics Instrument\HIGHRES GCMS Completed Results Files\HR-10\2021\2109\10-210913B-ICAL-PBDE.qld

Last Altered: Tuesday, September 14, 2021 11:07:06 Eastern Daylight Time
Printed: Friday, September 17, 2021 10:50:04 Eastern Daylight Time

Name: 10-210913B07, Date: 13-Sep-2021, Time: 20:42:01, ID: H10-21-CS4-0123, Description: PBDEX-CS#4-003, Vial: Tray1:4

	Target Analyte	#Hom	Total Area	Ion1 Area	Ion2 Area	Ra	Ra Fail=YES	RT	RRT	RT LCL	RT UCL	Conc.	%Rec	Mod.Comment	Noise 1	Noise 2
1	*BDE-1		1577344.5...	748150	829195	0.90	NO	4.91	0.96	4.88	4.95	76.810191	96.0		20463	37310
2	BDE-2		2399973.6...	1139841	1260133	0.90	NO	5.01	0.98	4.97	5.04	79.540481	99.4		20463	37310
3	BDE-3		2777494.3...	1349219	1428275	0.94	NO	5.12	1.00	5.09	5.16	76.598791	95.7		20463	37310
4	*BDE-10		871062.531	291050	580012	0.50	NO	6.34	0.89	6.31	6.38	85.688894	107.1		633	523
5	BDE-7		858466.126	286086	572380	0.50	NO	6.71	0.94	6.68	6.75	83.891055	104.9		633	523
6	BDE-8/BDE-11		2447696.8...	816167	1631530	0.50	NO	6.89	0.96	6.85	6.92	166.78261	104.2		633	523
7	BDE-12/BDE-13		2834953.5...	945486	1889468	0.50	NO	7.00	0.98	6.97	7.03	167.15047	104.5		633	523
8	BDE-15		1648396.8...	551830	1096567	0.50	NO	7.15	1.00	7.11	7.18	81.947185	102.4		633	523
9	*BDE-30		558435.000	279544	278891	1.00	NO	7.84	0.90	7.80	7.87	87.391953	109.2		2418	1538
10	BDE-32		742793.125	373601	369192	1.01	NO	8.29	0.96	8.26	8.33	84.922452	106.2		2418	1538
11	BDE-17/BDE-25		1137756.6...	569631	568126	1.00	NO	8.45	0.97	8.42	8.48	169.58535	106.0		2418	1538
12	BDE-28/BDE-33		1175615.8...	590178	585438	1.01	NO	8.68	1.00	8.65	8.72	168.31046	105.2		2418	1538
13	BDE-35		812941.594	409186	403755	1.01	NO	8.84	1.02	8.80	8.87	84.300653	105.4		2418	1538
14	BDE-37		815762.657	412083	403680	1.02	NO	9.03	1.04	8.99	9.06	84.560049	105.7		2418	1538
15	*PBEB		798732.438	406112	392620	1.03	NO	9.04	0.90	9.00	9.07	88.878042	111.1		595	683
16	*PBB-52		792237.751	478271	313967	1.52	NO	9.14	0.91	9.10	9.17	87.261052	109.1		974	567
17	*HBB		635219.813	183362	451858	0.41	NO	10.01	1.00	9.98	10.04	84.361778	105.5		605	664
18	*BDE-75		494864.782	198461	296404	0.67	NO	10.07	0.95	10.04	10.10	91.235789	114.0		4394	2421
19	BDE-51		570455.141	229709	340746	0.67	NO	10.15	0.96	10.11	10.18	88.656762	110.8		4394	2421
20	BDE-49		363636.718	146167	217470	0.67	NO	10.23	0.97	10.20	10.27	88.712517	110.9		4394	2421
21	BDE-71		384204.297	154923	229282	0.68	NO	10.31	0.98	10.27	10.34	91.218532	114.0		4394	2421
22	BDE-47		492338.500	199609	292730	0.68	NO	10.57	1.00	10.53	10.60	84.081350	105.1		4394	2421
23	BDE-79		550336.609	222197	328139	0.68	NO	10.74	1.02	10.71	10.78	85.836899	107.3		4394	2421
24	BDE-66		334206.751	134308	199899	0.67	NO	10.85	1.03	10.82	10.89	88.770095	111.0		4394	2421
25	BDE-77		497915.828	193428	304488	0.64	NO	11.33	1.00	11.29	11.36	88.273751	110.3		4394	2421
26	*PBB-101		1329875.1...	672879	656996	1.02	NO	11.48	1.01	11.44	11.51	174.55132	109.1		1226	991
27	*BDE-100		700329.469	350883	349447	1.00	NO	12.21	1.00	12.18	12.24	129.79966	108.2		1842	2083
28	BDE-119/BDE-120		680137.251	343483	336654	1.02	NO	12.38	1.02	12.35	12.42	272.25611	113.4		1842	2083
29	BDE-99		442090.469	222634	219457	1.01	NO	12.72	1.00	12.68	12.75	129.84475	108.2		1842	2083
30	BDE-116		218685.422	109532	109154	1.00	NO	12.87	1.01	12.83	12.90	134.43897	112.0		1842	2083
31	BDE-83		243440.727	122443	120997	1.01	NO	13.00	1.02	12.97	13.04	132.75075	110.6		1842	2083
32	BDE-118		275357.594	136592	138765	0.98	NO	13.12	1.03	13.08	13.15	131.79586	109.8		1842	2083
33	BDE-85		313811.313	157345	156467	1.01	NO	13.61	0.99	13.58	13.65	130.01952	108.3		1842	2083
34	BDE-126		467077.266	234272	232805	1.01	NO	13.77	1.00	13.74	13.81	128.72117	107.3		1842	2083
35	BDE-105		289093.672	145279	143815	1.01	NO	13.94	1.01	13.90	13.97	137.02613	114.2		1842	2083
36	*PBB-153		849750.031	488857	360893	1.35	NO	14.11	1.00	14.08	14.14	169.01167	105.6		632	744
37	*BDE-155		1063446.0...	615468	447978	1.37	NO	13.77	0.97	13.74	13.81	170.49299	106.6		663	457

Quantify Sample Summary Report **MassLynx MassLynx V4.1 SCN 901**

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Last Altered: Tuesday, September 14, 2021 11:07:06 Eastern Daylight Time
Printed: Friday, September 17, 2021 10:50:04 Eastern Daylight Time

Name: 10-210913B07, Date: 13-Sep-2021, Time: 20:42:01, ID: H10-21-CS4-0123, Description: PBDEX-CS#4-003, Vial: Tray1:4

	Target Analyte	#Hom	Total Area	Ion1 Area	Ion2 Area	Ra	Ra Fail=YES	RT	RRT	RT LCL	RT UCL	Conc.	%Rec	Mod.Comment	Noise 1	Noise 2
38	BDE-154		901952.750	521089	380864	1.37	NO	14.15	1.00	14.11	14.18	167.07181	104.4		663	457
39	*BDE-153		380368.765	220027	160342	1.37	NO	14.88	1.00	14.85	14.92	173.88982	108.7		2580	2002
40	BDE-140		475386.062	276504	198882	1.39	NO	15.34	1.01	15.31	15.37	168.96959	105.6		2580	2002
41	BDE-138/BDE-166		525438.422	305885	219554	1.39	NO	15.88	1.07	15.84	15.91	338.76752	105.9		2580	2002
42	BDE-156		166743.796	97345	69399	1.40	NO	16.22	1.09	16.18	16.25	166.30446	103.9		2580	2002
43	BDE-128		192902.836	112125	80778	1.39	NO	16.84	0.99	16.80	16.87	168.33437	105.2		2580	2002
44	*BDE-184		540459.750	273122	267338	1.02	NO	16.65	0.98	16.62	16.68	224.09240	112.0		1453	641
45	BDE-183		353343.656	180842	172502	1.05	NO	17.02	1.00	16.99	17.06	217.75933	108.9		1453	641
46	BDE-191		217905.429	110487	107418	1.03	NO	17.58	1.03	17.55	17.62	217.32701	108.7		1453	641
47	BDE-181		221839.765	112166	109674	1.02	NO	18.12	1.01	18.09	18.16	218.34774	109.2		1453	641
48	BDE-190		147738.234	73756	73983	1.00	NO	18.27	1.02	18.24	18.31	215.23897	107.6		1453	641
49	*PBB-180		269001.109	136007	132994	1.02	NO	17.13	0.96	17.09	17.16	179.07077	111.9		836	597
50	*BDE-197		269871.594	120276	149595	0.80	NO	19.50	1.00	19.47	19.54	218.06593	109.0		1678	1356
51	BDE-203		194649.047	86211	108438	0.80	NO	19.78	1.01	19.75	19.81	216.16545	108.1		1678	1356
52	BDE-196		231574.118	103360	128214	0.81	NO	19.91	1.02	19.87	19.94	224.20551	112.1		1678	1356
53	*PBB-194		149917.879	84645	65273	1.30	NO	19.98	1.03	19.95	20.02	186.47279	116.5		490	592
54	*BDE-208		572159.187	288082	284077	1.01	NO	21.24	0.99	21.20	21.27	458.33444	114.6		2184	4052
55	BDE-207		643407.437	323025	320383	1.01	NO	21.35	1.00	21.32	21.39	444.89134	111.2		2184	4052
56	BDE-206		453138.672	231281	221858	1.04	NO	21.63	1.01	21.59	21.66	414.62761	103.7		2184	4052
57	*PBB-206		227023.601	116754	110270	1.06	NO	21.08	0.99	21.05	21.12	457.83475	114.5		1522	2667
58	*PBB-209		253364.641	142123	111242	1.28	NO	21.98	1.03	21.95	22.01	446.98218	111.7		1684	1510
59	*BDE-209		156195.969	89973	66223	1.36	NO	23.28	1.00	23.24	23.31	436.49067	109.1		965	957
60	*DBDPE		187387.008	93452	93935	0.99	NO	24.66	1.00	24.63	24.69	860.52755	107.6		422	605
61	13C12-BDE-3		2276328.6...	1125063	1151266	0.98	NO	5.11	0.48	5.08	5.15	56.822072	113.6		1296	2638
62	13C12-BDE-15		1186391.3...	393282	793110	0.50	NO	7.14	0.67	7.11	7.17	54.288334	108.6		1759	6069
63	13C12-BDE-28		522333.219	262547	259786	1.01	NO	8.68	0.81	8.65	8.72	52.492390	105.0		1608	1629
64	13C6-HBB		359474.477	259266	100209	2.59	NO	10.01	0.93	9.98	10.04	50.187767	100.4		1016	637
65	13C12-BDE-47		348847.000	214048	134799	1.59	NO	10.57	0.98	10.53	10.60	50.543948	101.1		1365	1416
66	13C12-BDE-77		356227.922	215305	140923	1.53	NO	11.33	1.06	11.29	11.36	48.987049	98.0		1365	1416
67	13C12-BDE-100		353654.844	178257	175398	1.02	NO	12.20	0.81	12.16	12.23	53.274904	106.5		1346	1163
68	13C12-BDE-99		206628.172	104211	102418	1.02	NO	12.71	0.84	12.67	12.74	53.085119	106.2		1346	1163
69	13C12-BDE-126		231656.656	116502	115155	1.01	NO	13.77	0.91	13.74	13.81	52.892130	105.8		1346	1163
70	13C12-BDE-154		295048.375	170620	124429	1.37	NO	14.15	0.93	14.11	14.18	55.011321	110.0		1065	714
71	13C12-BDE-153		94340.211	55088	39252	1.40	NO	14.88	0.98	14.85	14.92	52.009892	104.0		1313	1391
72	13C12-BDE-183		108631.785	54144	54488	0.99	NO	17.01	0.95	16.98	17.04	53.756998	107.5		551	673
73	13C12-BDE-197		157324.078	70633	86691	0.81	NO	19.49	1.09	19.46	19.52	100.89448	100.9		1096	795
74	13C12-BDE-207		397614.531	199825	197790	1.01	NO	21.35	0.99	21.32	21.39	262.20312	104.9		2983	2568

Quantify Sample Summary Report **MassLynx MassLynx V4.1 SCN 901**

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Last Altered: Tuesday, September 14, 2021 11:07:06 Eastern Daylight Time
Printed: Friday, September 17, 2021 10:50:04 Eastern Daylight Time

Name: 10-210913B07, Date: 13-Sep-2021, Time: 20:42:01, ID: H10-21-CS4-0123, Description: PBDEX-CS#4-003, Vial: Tray1:4

	Target Analyte	#Hom	Total Area	Ion1 Area	Ion2 Area	Ra	Ra Fail=YES	RT	RRT	RT LCL	RT UCL	Conc.	%Rec	Mod.Comment	Noise 1	Noise 2
75	13C12-BDE-209		92652.511	53589	39063	1.37	NO	23.28	1.08	23.24	23.31	236.98449	94.8		1039	1275
76	13C14-DBDPE		122241.836	60333	61909	0.97	NO	24.66	1.14	24.63	24.69	419.08065	83.8		772	1191
77	13C12-BDE-138 (CL)		77409.498	45495	31915	1.43	NO	15.83	1.05	15.80	15.86	50.681790	101.4		1313	1391
78	13C12-BDE-79 (IS)		396276.047	242463	153813	1.58	NO	10.73	0.71	10.70	10.76	45.424216	90.8		1365	1416
79	13C12-BDE-139 (IS)		106671.109	63427	43244	1.47	NO	15.14	0.00	15.11	15.17	42.328200	84.7		1313	1391
80	13C12-BDE-180 (IS)		47805.489	23836	23969	0.99	NO	17.88	1.18	17.84	17.91	40.676560	81.4		551	673
81	13C12-BDE-206 (IS)		285464.375	145029	140436	1.03	NO	21.61	1.43	21.58	21.65	197.71973	79.1		2983	2568
82	Total MoF1	3		3237210								232.94946			20463	
83	Total DiF2	5		2890619								585.46021			633	
84	Total TriF3	6		2634224								679.07092			2418	
85	Total PBEBF3	1		406112								88.878042			595	
86	Total TePBBF3	1		478271								87.261052			974	
87	Total HBBF4	1		183362								84.361778			605	
88	Total TetraF4	8		1478801								706.78569			4394	
89	Total PePBBF4	1		672879								174.55132			1226	
90	Total PentaF5	9		1822462								1326.6529			1842	
91	Total PBB-153	1		488857								169.01167			632	
92	Total HexaF5	2		1136558								337.56479			663	
93	Total HexaF6	5		1011885								1016.2658			2580	
94	Total HeptaF6	5		750372								1092.7654			1453	
95	Total PBB-180	1		136007								179.07077			836	
96	Total OctaF7	3		309848								658.43689			1678	
97	Total PBB-194	1		84645								186.47279			490	
98	Total NonaF8	3		842388								1317.8534			2184	
99	Total PBB-206	1		116754								457.83475			1522	
100	Total PBB-209	1		142123								446.98218			1684	
101	Total DecaF9	1		89973								436.49067			965	
102	Total DBDPEF10															
103	Total 13CMoF1	1		1125063								56.822072			1296	
104	Total 13CDiF2	1		393282								54.288334			1759	
105	Total 13CTriF3	1		262547								52.492390			1608	
106	Total 13CHBBF4	1		259266								50.187767			1016	
107	Total 13CTetraF4	3		671816								144.95521			1365	
108	Total 13CPentaF5	3		398970								159.25215			1346	
109	Total 13CHexaF5	1		170620								55.011321			1065	
110	Total 13CHexaF6	3		164010								145.01988			1313	
111	Total 13CHeptaF6	2		77980								94.433559			551	

Quantify Sample Summary Report **MassLynx MassLynx V4.1 SCN 901**

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Last Altered: Tuesday, September 14, 2021 11:07:06 Eastern Daylight Time
Printed: Friday, September 17, 2021 10:50:04 Eastern Daylight Time

Name: 10-210913B07, Date: 13-Sep-2021, Time: 20:42:01, ID: H10-21-CS4-0123, Description: PBDEX-CS#4-003, Vial: Tray1:4

	Target Analyte	#Hom	Total Area	Ion1 Area	Ion2 Area	Ra	Ra Fail=YES	RT	RRT	RT LCL	RT UCL	Conc.	%Rec	Mod.Comment	Noise 1	Noise 2
112	Total 13COctaF7	1		70633								100.89448			1096	
113	Total 13CNonaF8	2		344854								459.92285			2983	
114	Total 13CDecaF9	1		53589								236.98449			1039	
115	Total 13CDBDPEF10															
116	Lockmass F1			0											240884	
117	Lockmass F2			0											437764	
118	Lockmass F3			0											272648	
119	Lockmass F4			0											93598	
120	Lockmass F5			0											67796	
121	Lockmass F6			0											25643	
122	Lockmass F7			0											12628	
123	Lockmass F8			0											19552	
124	Lockmass F9			0											22237	
125	Lockmass F10															

Quantify Sample Summary Report **MassLynx MassLynx V4.1 SCN 901**

Dataset: I:\Organics Instrument\HIGHRES GCMS Completed Results Files\HR-10\2021\2109\10-210913B-ICAL-PBDE.qld

Last Altered: Tuesday, September 14, 2021 11:07:06 Eastern Daylight Time
Printed: Friday, September 17, 2021 10:50:04 Eastern Daylight Time

Name: 10-210913B06, Date: 13-Sep-2021, Time: 20:07:08, ID: H10-21-CS5-0123, Description: PBDEX-CS#5-003, Vial: Tray1:5

	Target Analyte	#Hom	Total Area	Ion1 Area	Ion2 Area	Ra	Ra Fail=YES	RT	RRT	RT LCL	RT UCL	Conc.	%Rec	Mod.Comment	Noise 1	Noise 2
1	*BDE-1		4611101.000	2295423	2315678	0.99	NO	4.89	0.96	4.86	4.93	232.38417	96.8		30547	39372
2	BDE-2		7460698.2...	3694201	3766498	0.98	NO	5.00	0.98	4.96	5.03	255.90032	106.6		30547	39372
3	BDE-3		8465975.0...	4229913	4236062	1.00	NO	5.10	1.00	5.07	5.14	241.63248	100.7		30547	39372
4	*BDE-10		2672457.0...	887399	1785058	0.50	NO	6.32	0.89	6.29	6.36	256.78011	107.0		1483	2014
5	BDE-7		2720359.0...	904866	1815493	0.50	NO	6.71	0.94	6.67	6.74	259.65349	108.2		1483	2014
6	BDE-8/BDE-11		7791123.5...	2588504	5202620	0.50	NO	6.87	0.96	6.84	6.90	518.52378	108.0		1483	2014
7	BDE-12/BDE-13		9051976.2...	3013388	6038588	0.50	NO	6.99	0.98	6.96	7.02	521.29135	108.6		1483	2014
8	BDE-15		5230364.6...	1738618	3491747	0.50	NO	7.13	1.00	7.10	7.16	253.96840	105.8		1483	2014
9	*BDE-30		1726906.8...	863483	863424	1.00	NO	7.83	0.90	7.79	7.86	249.65611	104.0		1614	3683
10	BDE-32		2417042.2...	1213172	1203871	1.01	NO	8.27	0.95	8.24	8.31	255.27798	106.4		1614	3683
11	BDE-17/BDE-25		3805471.5...	1910994	1894478	1.01	NO	8.44	0.97	8.40	8.47	523.98863	109.2		1614	3683
12	BDE-28/BDE-33		3900770.2...	1961554	1939216	1.01	NO	8.67	1.00	8.64	8.71	515.90595	107.5		1614	3683
13	BDE-35		2792310.8...	1400750	1391561	1.01	NO	8.82	1.02	8.78	8.85	267.49140	111.5		1614	3683
14	BDE-37		2799387.6...	1409267	1390121	1.01	NO	9.01	1.04	8.97	9.04	268.06426	111.7		1614	3683
15	*PBEB		2631309.2...	1341010	1290299	1.04	NO	9.02	0.90	8.98	9.05	277.41949	115.6		486	629
16	*PBB-52		2691520.8...	1622498	1069023	1.52	NO	9.12	0.91	9.08	9.15	280.88891	117.0		910	723
17	*HBB		2055413.1...	599703	1455710	0.41	NO	10.00	1.00	9.96	10.03	258.63824	107.8		591	628
18	*BDE-75		1680579.4...	675236	1005344	0.67	NO	10.06	0.95	10.03	10.09	276.65734	115.3		1069	3043
19	BDE-51		1853911.1...	748575	1105336	0.68	NO	10.12	0.96	10.09	10.15	257.26680	107.2		1069	3043
20	BDE-49		1267123.0...	509441	757682	0.67	NO	10.22	0.97	10.19	10.25	276.01991	115.0		1069	3043
21	BDE-71		1273213.1...	514116	759097	0.68	NO	10.29	0.98	10.26	10.33	269.91464	112.5		1069	3043
22	BDE-47		1681384.6...	677841	1003544	0.68	NO	10.56	1.00	10.52	10.59	262.95158	109.6		1069	3043
23	BDE-79		1850465.9...	747021	1103445	0.68	NO	10.72	1.02	10.68	10.75	257.70995	107.4		1069	3043
24	BDE-66		1158482.5...	465842	692640	0.67	NO	10.84	1.03	10.81	10.88	274.75489	114.5		1069	3043
25	BDE-77		1788220.8...	720168	1068053	0.67	NO	11.31	1.00	11.28	11.35	276.32623	115.1		1069	3043
26	*PBB-101		4671613.2...	2353910	2317704	1.02	NO	11.46	1.01	11.43	11.50	547.49933	114.1		877	519
27	*BDE-100		2371800.0...	1198063	1173737	1.02	NO	12.20	1.00	12.16	12.23	403.31260	112.0		6257	1053
28	BDE-119/BDE-120		2441361.1...	1232863	1208498	1.02	NO	12.37	1.02	12.34	12.40	857.72776	119.1		6257	1053
29	BDE-99		1528786.4...	770377	758410	1.02	NO	12.69	1.00	12.66	12.73	398.40473	110.7		6257	1053
30	BDE-116		765452.562	386655	378797	1.02	NO	12.85	1.01	12.82	12.89	413.00947	114.7		6257	1053
31	BDE-83		855757.594	424328	431429	0.98	NO	12.99	1.02	12.96	13.03	409.57257	113.8		6257	1053
32	BDE-118		991684.532	497582	494103	1.01	NO	13.10	1.03	13.07	13.14	416.59553	115.7		6257	1053
33	BDE-85		1194757.5...	603368	591389	1.02	NO	13.59	0.99	13.55	13.62	434.46631	120.7		6257	1053
34	BDE-126		1847922.0...	930690	917232	1.01	NO	13.76	1.00	13.73	13.80	415.45312	115.4		6257	1053
35	BDE-105		1105732.0...	556560	549172	1.01	NO	13.92	1.01	13.89	13.96	459.99282	127.8		6257	1053
36	*PBB-153		3138486.8...	1804774	1333713	1.35	NO	14.09	1.00	14.05	14.12	536.92172	111.9		733	884
37	*BDE-155		3763917.5...	2173039	1590879	1.37	NO	13.76	0.97	13.73	13.80	519.03462	108.1		967	544

Quantify Sample Summary Report **MassLynx MassLynx V4.1 SCN 901**

Dataset: I:\Organics Instrument\HIGHRES GCMS Completed Results Files\HR-10\2021\2109\10-210913B-ICAL-PBDE.qld

Last Altered: Tuesday, September 14, 2021 11:07:06 Eastern Daylight Time
Printed: Friday, September 17, 2021 10:50:04 Eastern Daylight Time

Name: 10-210913B06, Date: 13-Sep-2021, Time: 20:07:08, ID: H10-21-CS5-0123, Description: PBDEX-CS#5-003, Vial: Tray1:5

	Target Analyte	#Hom	Total Area	Ion1 Area	Ion2 Area	Ra	Ra Fail=YES	RT	RRT	RT LCL	RT UCL	Conc.	%Rec	Mod.Comment	Noise 1	Noise 2
38	BDE-154		3189123.2...	1829146	1359977	1.35	NO	14.13	1.00	14.10	14.17	517.64690	107.8		967	544
39	*BDE-153		1437474.8...	836834	600641	1.39	NO	14.87	1.00	14.84	14.91	534.44090	111.3		2730	3447
40	BDE-140		1802244.1...	1046522	755722	1.38	NO	15.33	1.01	15.29	15.36	550.98643	114.8		2730	3447
41	BDE-138/BDE-166		2101398.0...	1222725	878673	1.39	NO	15.87	1.07	15.83	15.90	1165.3420	121.4		2730	3447
42	BDE-156		764771.750	446892	317880	1.41	NO	16.20	1.09	16.17	16.24	656.07153	136.7		2730	3447
43	BDE-128		864191.625	499999	364192	1.37	NO	16.82	0.99	16.79	16.86	648.64846	135.1		2730	3447
44	*BDE-184		2178800.8...	1097001	1081800	1.01	NO	16.64	0.98	16.60	16.67	681.66587	113.6		550	1658
45	BDE-183		1428594.4...	712226	716368	0.99	NO	17.01	1.00	16.98	17.04	664.32204	110.7		550	1658
46	BDE-191		981601.594	497359	484243	1.03	NO	17.57	1.03	17.54	17.61	738.70519	123.1		550	1658
47	BDE-181		985741.719	498900	486842	1.02	NO	18.11	1.01	18.08	18.14	732.08696	122.0		550	1658
48	BDE-190		687366.562	353643	333724	1.06	NO	18.27	1.02	18.24	18.31	755.62558	125.9		550	1658
49	*PBB-180		1122785.9...	564845	557941	1.01	NO	17.10	0.96	17.07	17.14	563.97238	117.5		1173	788
50	*BDE-197		1134300.8...	509322	624979	0.81	NO	19.49	1.00	19.46	19.52	685.83597	114.3		1989	2993
51	BDE-203		899418.938	402296	497123	0.81	NO	19.77	1.01	19.73	19.80	747.40738	124.6		1989	2993
52	BDE-196		1129106.7...	507473	621634	0.82	NO	19.89	1.02	19.86	19.93	817.99873	136.3		1989	2993
53	*PBB-194		748719.375	422264	326455	1.29	NO	19.97	1.03	19.94	20.00	696.85507	145.2		488	719
54	*BDE-208		2928214.6...	1475347	1452867	1.02	NO	21.23	0.99	21.19	21.26	1516.3789	126.4		4002	3556
55	BDE-207		2992970.5...	1506274	1486696	1.01	NO	21.34	1.00	21.31	21.38	1337.8564	111.5		4002	3556
56	BDE-206		2234537.7...	1124012	1110526	1.01	NO	21.61	1.01	21.58	21.65	1321.7642	110.1		4002	3556
57	*PBB-206		1116389.438	567592	548798	1.03	NO	21.07	0.99	21.04	21.11	1455.4345	121.3		6056	2091
58	*PBB-209		1285056.5...	713181	571876	1.25	NO	21.97	1.03	21.93	22.00	1465.5668	122.1		6899	4051
59	*BDE-209		827233.501	461796	365438	1.26	NO	23.27	1.00	23.23	23.30	1400.9209	116.7		1213	1041
60	*DBDPE		988022.032	500104	487918	1.02	NO	24.66	1.00	24.63	24.69	2845.2253	118.6		544	741
61	13C12-BDE-3		2199507.0...	1080736	1118771	0.97	NO	5.10	0.48	5.07	5.14	49.757620	99.5		1342	1887
62	13C12-BDE-15		1214653.7...	401100	813554	0.49	NO	7.12	0.66	7.09	7.15	50.371306	100.7		2454	6126
63	13C12-BDE-28		565422.625	283951	281471	1.01	NO	8.67	0.81	8.64	8.71	51.496063	103.0		1051	834
64	13C6-HBB		379398.961	273224	106175	2.57	NO	10.00	0.93	9.96	10.03	48.004074	96.0		725	606
65	13C12-BDE-47		380944.890	233265	147680	1.58	NO	10.56	0.98	10.52	10.59	50.020550	100.0		2067	1781
66	13C12-BDE-77		408698.125	247920	160778	1.54	NO	11.31	1.06	11.28	11.35	50.934038	101.9		2067	1781
67	13C12-BDE-100		385466.860	194682	190785	1.02	NO	12.18	0.81	12.15	12.22	55.821733	111.6		1766	1905
68	13C12-BDE-99		232876.203	117711	115165	1.02	NO	12.69	0.84	12.66	12.73	57.515061	115.0		1766	1905
69	13C12-BDE-126		283966.844	144070	139897	1.03	NO	13.76	0.91	13.73	13.80	62.328563	124.7		1766	1905
70	13C12-BDE-154		336705.563	195888	140818	1.39	NO	14.13	0.93	14.10	14.17	60.350705	120.7		1051	620
71	13C12-BDE-153		116002.328	67877	48126	1.41	NO	14.87	0.98	14.84	14.91	61.479315	123.0		1721	1510
72	13C12-BDE-183		143968.234	73162	70806	1.03	NO	17.00	0.95	16.97	17.03	59.182658	118.4		571	814
73	13C12-BDE-197		210248.953	94241	116008	0.81	NO	19.48	1.09	19.44	19.51	112.00973	112.0		477	801
74	13C12-BDE-207		615067.876	308359	306709	1.01	NO	21.34	0.99	21.31	21.38	260.51513	104.2		1929	1675

Dataset: I:\Organics Instrument\HIGHRES GCMS Completed Results Files\HR-10\2021\2109\10-210913B-ICAL-PBDE.qld

Last Altered: Tuesday, September 14, 2021 11:07:06 Eastern Daylight Time
Printed: Friday, September 17, 2021 10:50:04 Eastern Daylight Time

Name: 10-210913B06, Date: 13-Sep-2021, Time: 20:07:08, ID: H10-21-CS5-0123, Description: PBDEX-CS#5-003, Vial: Tray1:5

	Target Analyte	#Hom	Total Area	Ion1 Area	Ion2 Area	Ra	Ra Fail=YES	RT	RRT	RT LCL	RT UCL	Conc.	%Rec	Mod.Comment	Noise 1	Noise 2
75	13C12-BDE-209		152889.211	86752	66138	1.31	NO	23.26	1.08	23.22	23.29	251.17352	100.5		1180	1191
76	13C14-DBDPE		194937.383	98520	96418	1.02	NO	24.65	1.14	24.61	24.68	429.24689	85.8		711	1235
77	13C12-BDE-138 (CL)		99425.918	58754	40672	1.44	NO	15.82	1.05	15.79	15.85	62.579272	125.2		1721	1510
78	13C12-BDE-79 (IS)		437265.969	266257	171009	1.56	NO	10.72	0.71	10.68	10.75	50.122797	100.2		2067	1781
79	13C12-BDE-139 (IS)		110961.828	65910	45052	1.46	NO	15.13	0.00	15.10	15.16	44.030801	88.1		1721	1510
80	13C12-BDE-180 (IS)		57547.713	28976	28572	1.01	NO	17.86	1.18	17.83	17.90	48.965989	97.9		571	814
81	13C12-BDE-206 (IS)		444444.594	223289	221155	1.01	NO	21.61	1.43	21.58	21.65	307.83339	123.1		1929	1675
82	Total MoF1	3		10219536								729.91697			30547	
83	Total DiF2	5		9132775								1810.2171			1483	
84	Total TriF3	6		8759218								2080.3843			1614	
85	Total PBEBF3	1		1341010								277.41949			486	
86	Total TePBBF3	1		1622498								280.88891			910	
87	Total HBBF4	1		599703								258.63824			591	
88	Total TetraF4	8		5058240								2151.6014			1069	
89	Total PePBBF4	1		2353910								547.49933			877	
90	Total PentaF5	9		6600486								4208.5349			6257	
91	Total PBB-153	1		1804774								536.92172			733	
92	Total HexaF5	2		4002185								1036.6815			967	
93	Total HexaF6	5		4052972								3555.4894			2730	
94	Total HeptaF6	5		3159129								3572.4056			550	
95	Total PBB-180	1		564845								563.97238			1173	
96	Total OctaF7	3		1419090								2251.2421			1989	
97	Total PBB-194	1		422264								696.85507			488	
98	Total NonaF8	3		4105633								4175.9996			4002	
99	Total PBB-206	1		567592								1455.4345			6056	
100	Total PBB-209	1		713181								1465.5668			6899	
101	Total DecaF9	1		461796								1400.9209			1213	
102	Total DBDPEF10															
103	Total 13CMoF1	1		1080736								49.757620			1342	
104	Total 13CDiF2	1		401100								50.371306			2454	
105	Total 13CTriF3	1		283951								51.496063			1051	
106	Total 13CHBBF4	1		273224								48.004074			725	
107	Total 13CTetraF4	3		747443								151.07739			2067	
108	Total 13CPentaF5	3		456463								175.66536			1766	
109	Total 13CHexaF5	1		195888								60.350705			1051	
110	Total 13CHexaF6	3		192540								168.08939			1721	
111	Total 13CHeptaF6	2		102138								108.14865			571	

Quantify Sample Summary Report **MassLynx MassLynx V4.1 SCN 901**

Dataset: I:\Organics Instrument\HIGHRES GCMS Completed Results Files\HR-10\2021\2109\10-210913B-ICAL-PBDE.qld

Last Altered: Tuesday, September 14, 2021 11:07:06 Eastern Daylight Time
Printed: Friday, September 17, 2021 10:50:04 Eastern Daylight Time

Name: 10-210913B06, Date: 13-Sep-2021, Time: 20:07:08, ID: H10-21-CS5-0123, Description: PBDEX-CS#5-003, Vial: Tray1:5

	Target Analyte	#Hom	Total Area	Ion1 Area	Ion2 Area	Ra	Ra Fail=YES	RT	RRT	RT LCL	RT UCL	Conc.	%Rec	Mod.Comment	Noise 1	Noise 2
112	Total 13COctaF7	1		94241								112.00973			477	
113	Total 13CNonaF8	2		531649								568.34852			1929	
114	Total 13CDecaF9	1		86752								251.17352			1180	
115	Total 13CDBDPEF10															
116	Lockmass F1			0											218633	
117	Lockmass F2			0											566826	
118	Lockmass F3			0											373559	
119	Lockmass F4			0											83057	
120	Lockmass F5			0											61381	
121	Lockmass F6			0											27239	
122	Lockmass F7			0											16845	
123	Lockmass F8			0											16594	
124	Lockmass F9			0											20571	
125	Lockmass F10															

Quantify Audit Report MassLynx MassLynx V4.1 SCN 901

Dataset: I:\Organics Instrument\HIGHRES GCMS Completed Results Files\HR-10\2021\2109\10-210913B-ICAL-PBDE.qld

Last Altered: Tuesday, September 14, 2021 11:07:06 Eastern Daylight Time
Printed: Friday, September 17, 2021 10:50:04 Eastern Daylight Time

Date	Time	Event	Details	Comments
14-Sep-21	10:56:53	Process Extract		
14-Sep-21	10:56:54	Process Integrate		
14-Sep-21	10:56:54	Process Calibrate		
14-Sep-21	10:56:54	Process Quantify		
14-Sep-21	10:56:59	Dataset Created		
14-Sep-21	10:57:33	Pre modification peak	Sample:10-210913B05, Compound:TetraF4, RT:11.326	
14-Sep-21	10:57:33	Peak modified	Sample:10-210913B05, Compound:TetraF4, RT:11.326	
14-Sep-21	10:57:33	Pre modification peak	Sample:10-210913B05, Compound:TetraF4, RT:11.326	
14-Sep-21	10:57:33	Peak modified	Sample:10-210913B05, Compound:TetraF4, RT:11.326	
14-Sep-21	10:58:34	Pre modification peak	Sample:10-210913B05, Compound:HexaF6, RT:16.205	
14-Sep-21	10:58:34	Peak modified	Sample:10-210913B05, Compound:HexaF6, RT:16.205	EG210914MB
14-Sep-21	10:58:34	Pre modification peak	Sample:10-210913B05, Compound:HexaF6, RT:16.205	
14-Sep-21	10:58:34	Peak modified	Sample:10-210913B05, Compound:HexaF6, RT:16.205	EG210914MB
14-Sep-21	10:58:34	Pre modification peak	Sample:10-210913B05, Compound:HexaF6, RT:15.866	
14-Sep-21	10:58:34	Peak modified	Sample:10-210913B05, Compound:HexaF6, RT:15.866	EG210914MB
14-Sep-21	10:59:20	Pre modification peak	Sample:10-210913B05, Compound:HeptaF6, RT:18.262	
14-Sep-21	10:59:20	Peak modified	Sample:10-210913B05, Compound:HeptaF6, RT:18.262	EG210914MB
14-Sep-21	10:59:20	Pre modification peak	Sample:10-210913B05, Compound:HeptaF6, RT:16.637	
14-Sep-21	10:59:20	Peak modified	Sample:10-210913B05, Compound:HeptaF6, RT:16.637	EG210914MB
14-Sep-21	10:59:53	Pre modification peak	Sample:10-210913B05, Compound:PBB180F6, RT:17.105	
14-Sep-21	10:59:53	Peak modified	Sample:10-210913B05, Compound:PBB180F6, RT:17.105	EG210914MB
14-Sep-21	10:59:53	Pre modification peak	Sample:10-210913B05, Compound:PBB180F6, RT:17.105	
14-Sep-21	10:59:53	Peak modified	Sample:10-210913B05, Compound:PBB180F6, RT:17.105	EG210914MB
14-Sep-21	11:00:30	Method modified		
14-Sep-21	11:00:39	Process Quantify		
14-Sep-21	11:02:08	Method modified		
14-Sep-21	11:02:19	Process Quantify		
14-Sep-21	11:02:44	Pre modification peak	Sample:10-210913B05, Compound:DecaF9, RT:23.267	
14-Sep-21	11:02:44	Peak modified	Sample:10-210913B05, Compound:DecaF9, RT:23.267	EG210914MB
14-Sep-21	11:02:44	Pre modification peak	Sample:10-210913B05, Compound:DecaF9, RT:23.267	
14-Sep-21	11:02:44	Peak modified	Sample:10-210913B05, Compound:DecaF9, RT:23.267	EG210914MB
14-Sep-21	11:03:15	Pre modification peak	Sample:10-210913B05, Compound:NonaF8, RT:21.614	
14-Sep-21	11:03:15	Peak modified	Sample:10-210913B05, Compound:NonaF8, RT:21.614	EG210914MB
14-Sep-21	11:03:15	Pre modification peak	Sample:10-210913B05, Compound:NonaF8, RT:21.343	
14-Sep-21	11:03:15	Peak modified	Sample:10-210913B05, Compound:NonaF8, RT:21.343	EG210914MB
14-Sep-21	11:03:15	Pre modification peak	Sample:10-210913B05, Compound:NonaF8, RT:21.225	
14-Sep-21	11:03:15	Peak modified	Sample:10-210913B05, Compound:NonaF8, RT:21.225	EG210914MB
14-Sep-21	11:03:15	Pre modification peak	Sample:10-210913B05, Compound:NonaF8, RT:21.614	
14-Sep-21	11:03:15	Peak modified	Sample:10-210913B05, Compound:NonaF8, RT:21.614	EG210914MB
14-Sep-21	11:04:48	Pre modification peak	Sample:10-210913B04, Compound:HexaF6, RT:15.842	
14-Sep-21	11:04:48	Peak modified	Sample:10-210913B04, Compound:HexaF6, RT:15.842	EG210914MJ
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14-Sep-21	11:05:44	Pre modification peak	Sample:10-210913B04, Compound:HexaF6, RT:16.836	
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14-Sep-21	11:05:44	Pre modification peak	Sample:10-210913B04, Compound:HexaF6, RT:16.205	
14-Sep-21	11:05:44	Peak modified	Sample:10-210913B04, Compound:HexaF6, RT:16.205	EG210914MB
14-Sep-21	11:05:44	Pre modification peak	Sample:10-210913B04, Compound:HexaF6, RT:15.866	
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14-Sep-21	11:06:58	Method modified		
14-Sep-21	11:07:06	Process Calibrate		
14-Sep-21	11:07:06	Process Quantify		
14-Sep-21	11:07:59	Dataset Saved	Saved to 'I:\Organics Instrument\HIGHRES GCMS Complete...	

Quantify Audit Report MassLynx MassLynx V4.1 SCN 901

Dataset: I:\Organics Instrument\HIGHRES GCMS Completed Results Files\HR-10\2021\2109\10-210913B-ICAL-PBDE.qld

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Date	Time	Event	Details	Comments
14-Sep-21	11:09:40	Calibration Saved	Saved to 'C:\MassLynx\PBDE.PRO\CurveDB\10-210913B-IC...	
14-Sep-21	11:10:04	Method Saved	Saved to 'C:\MassLynx\PBDE.PRO\MethDB\PBDEX-DB5-1-2...	
14-Sep-21	11:10:36	Dataset Saved	Saved to 'I:\Organics Instrument\HIGHRES GCMS Complete...	

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Method: C:\MassLynx\PBDE.PRO\MethDB\PBDEX-DB5-1-210913B.mdb 14 Sep 2021 10:56:36
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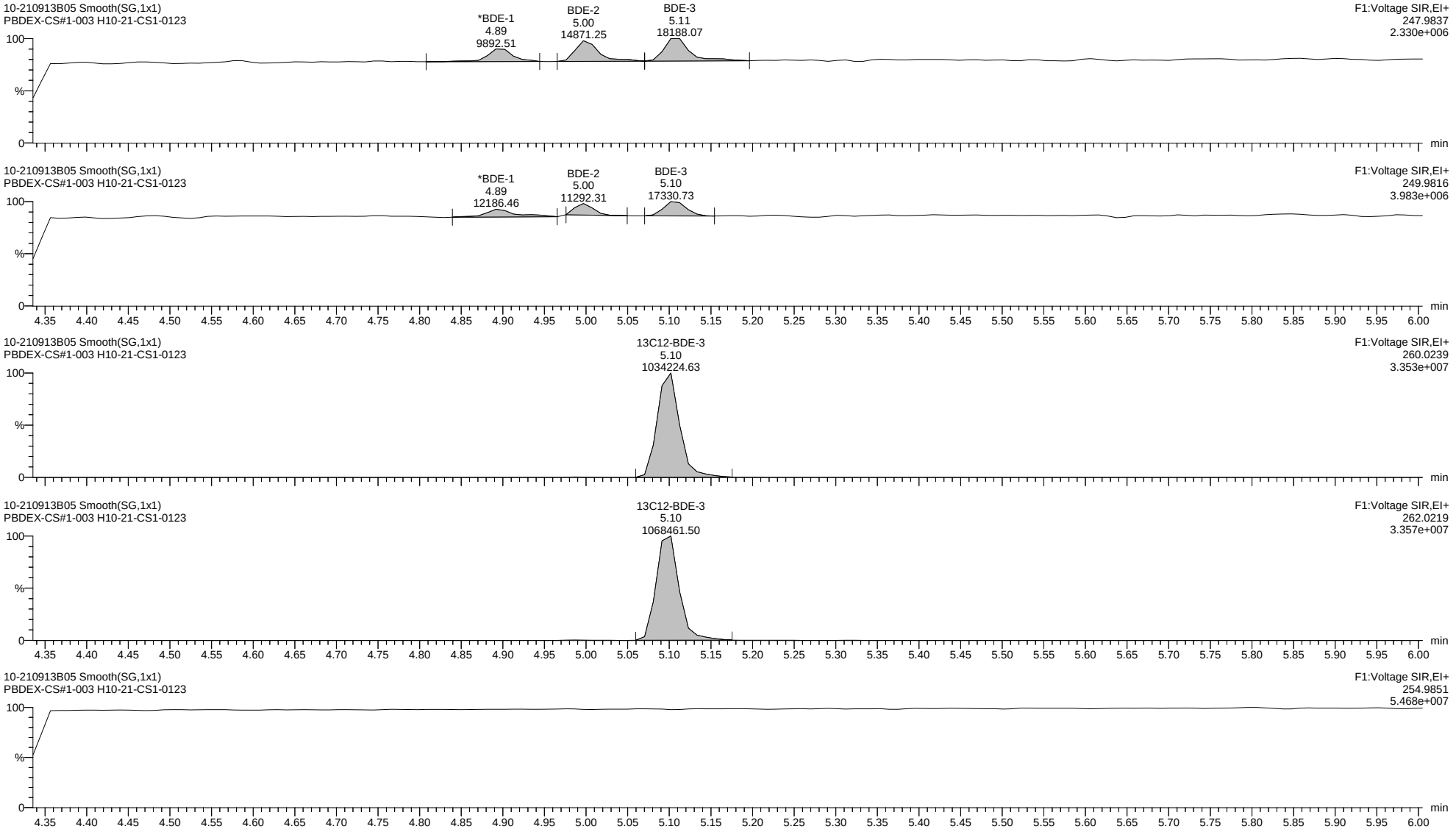
Name: 10-210913B05, Date: 13-Sep-2021, Time: 19:32:22, ID: H10-21-CS1-0123, Description: PBDEX-CS#1-003, Vial: Tray1:2



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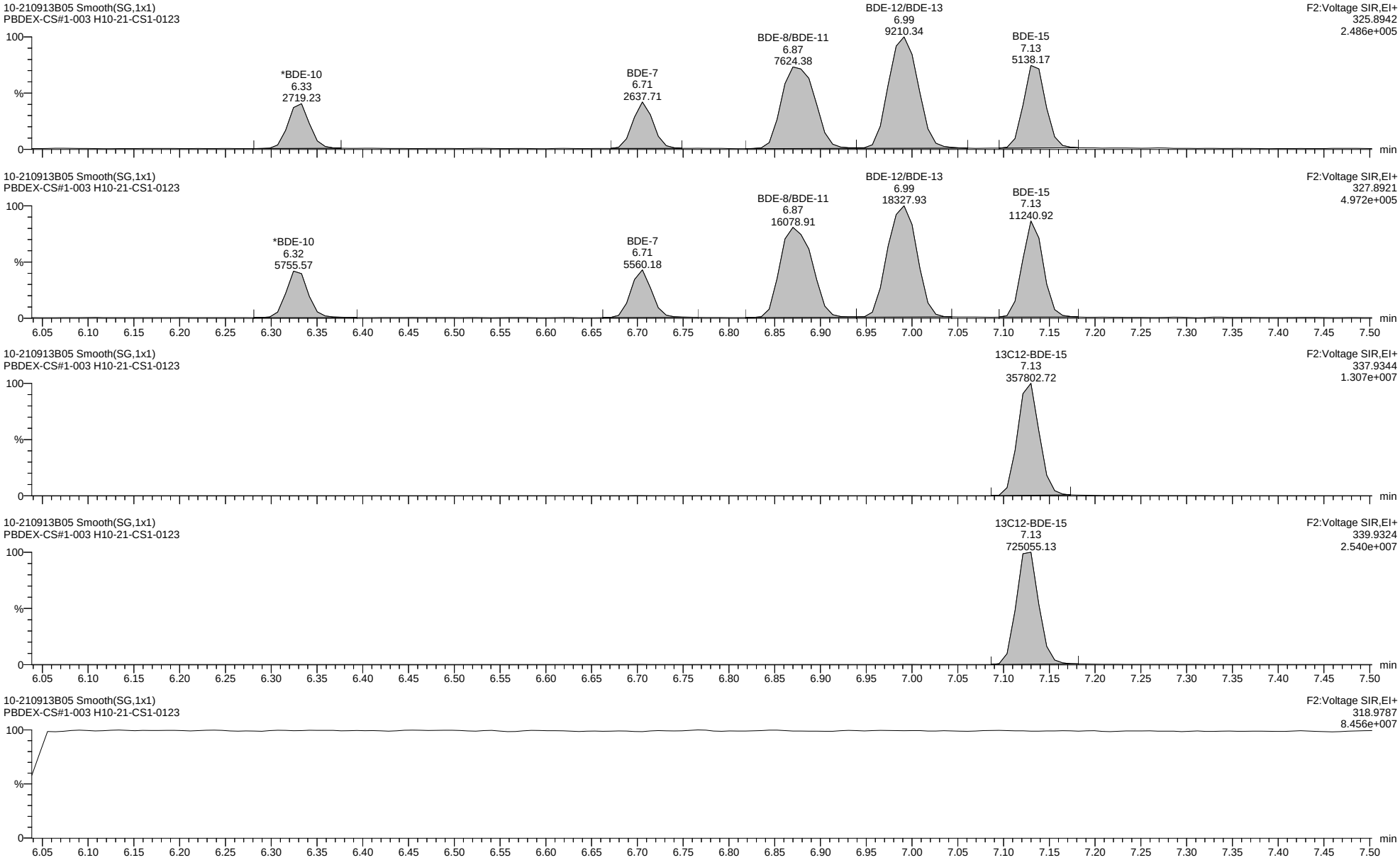

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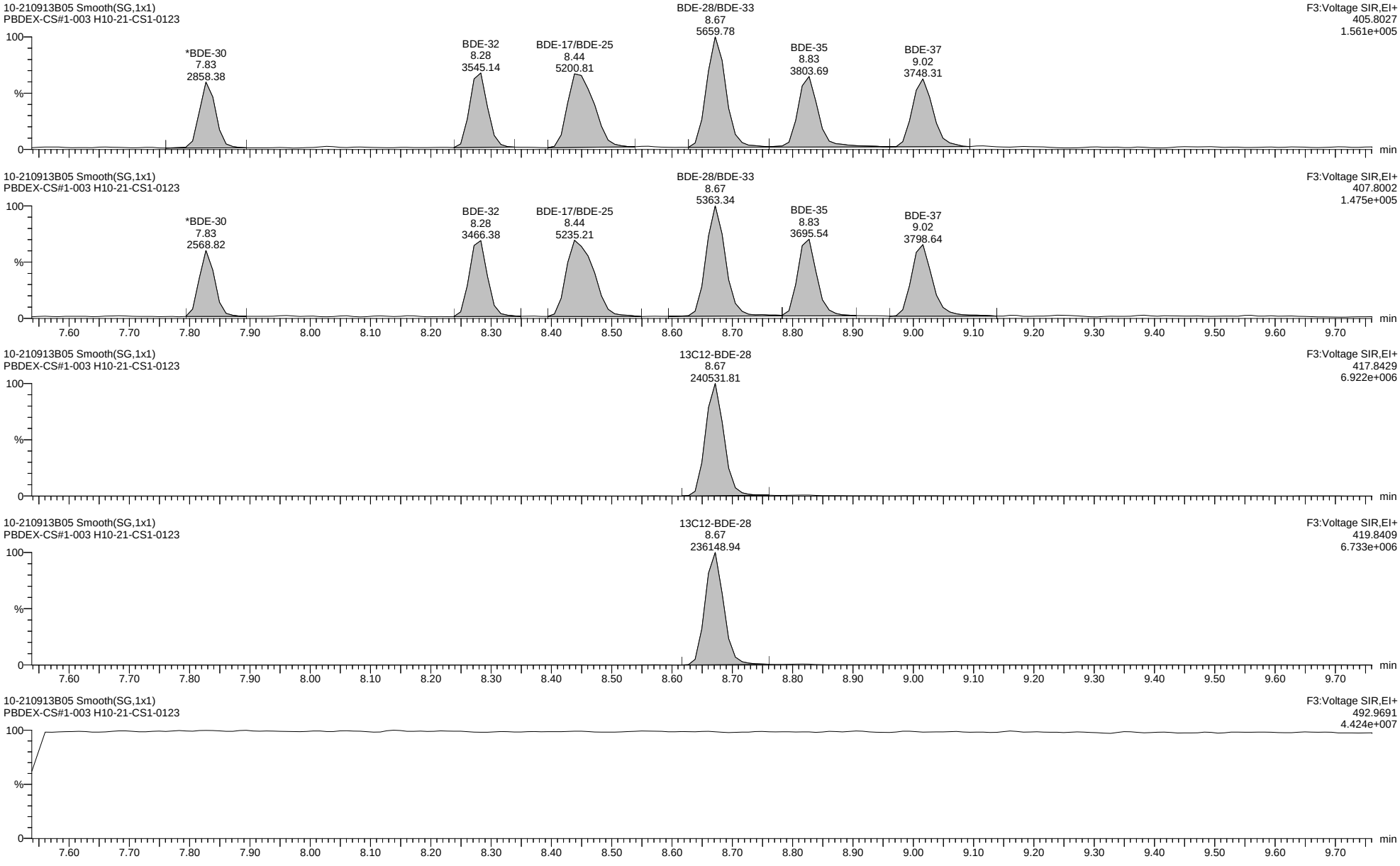

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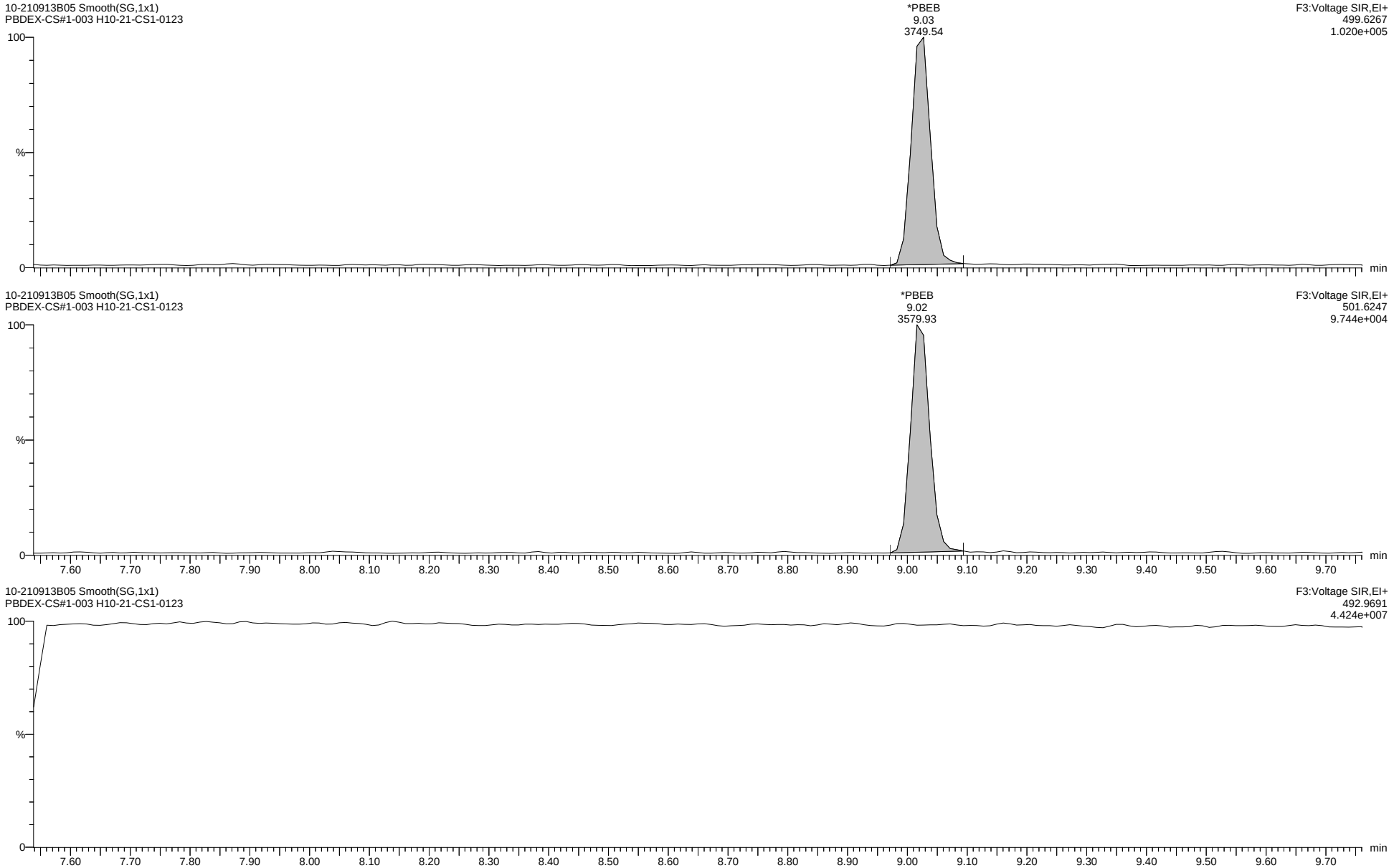

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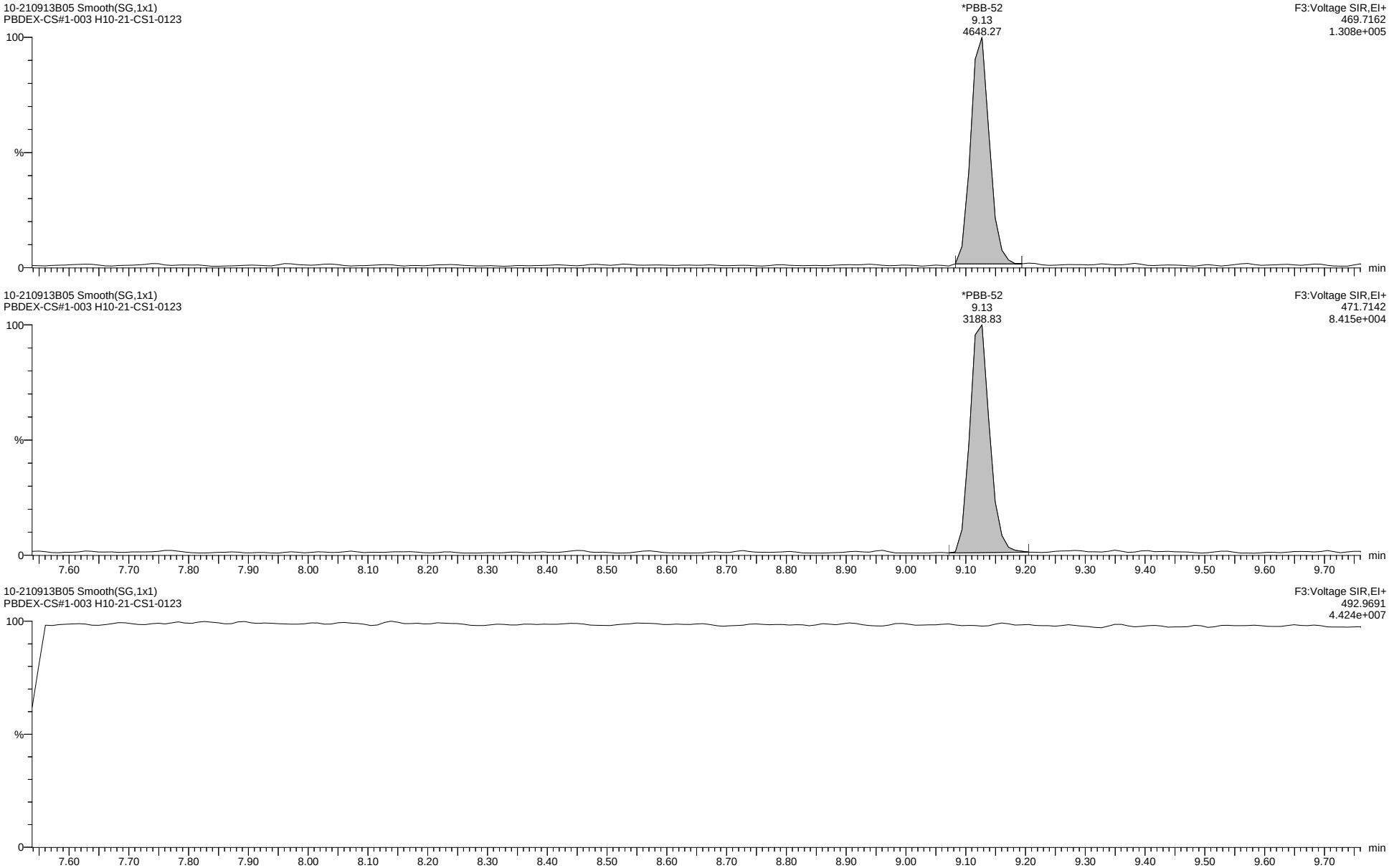

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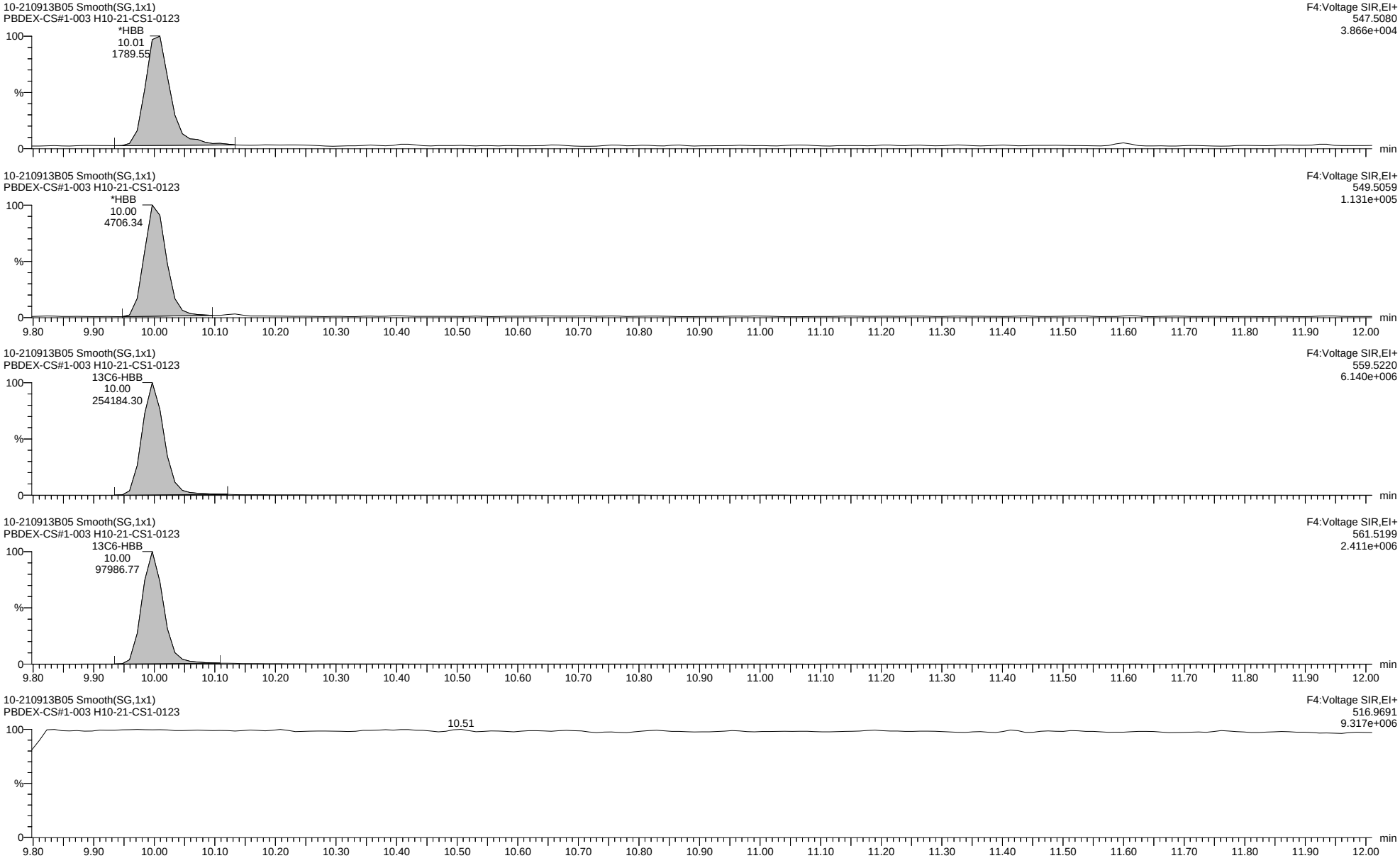

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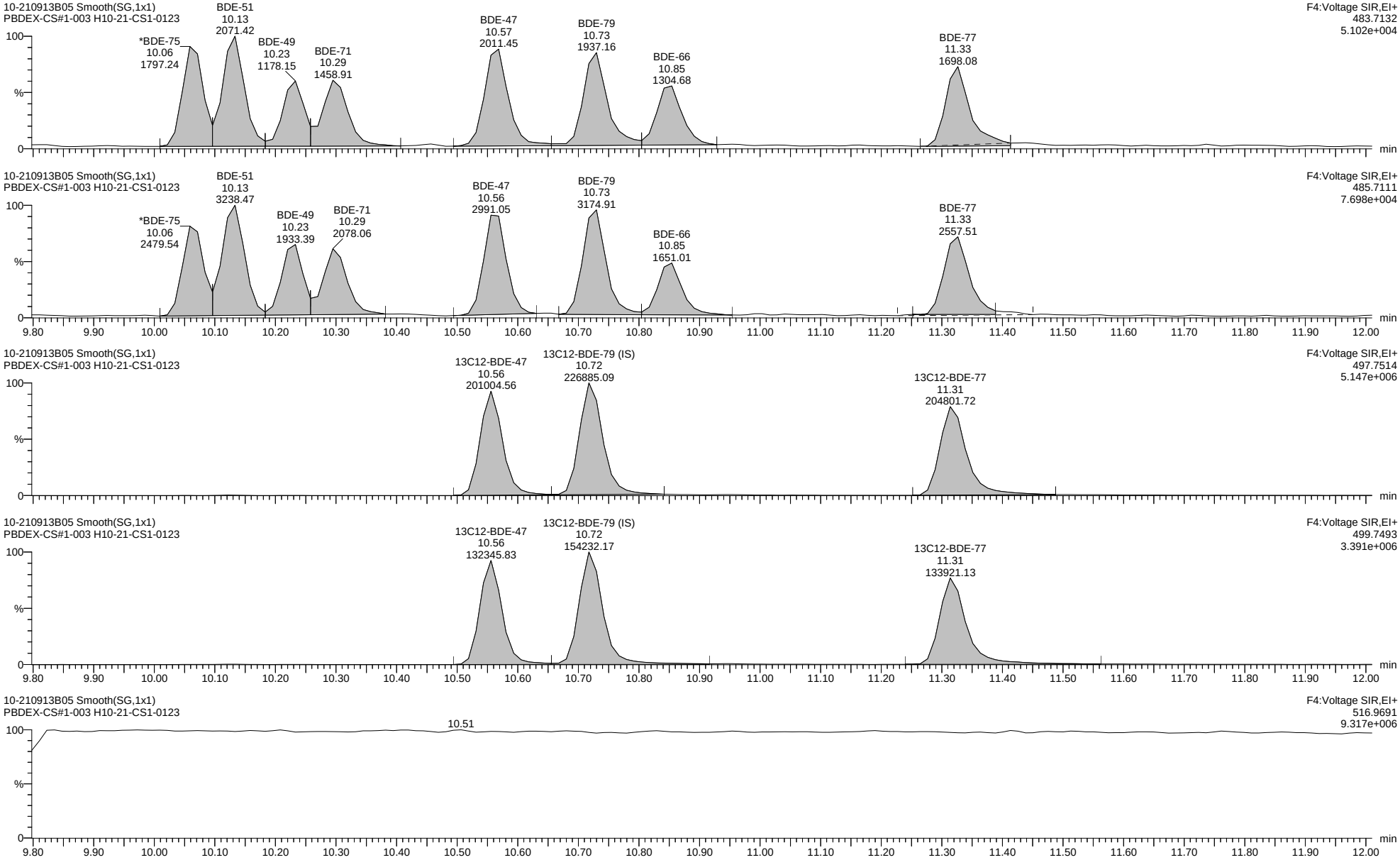

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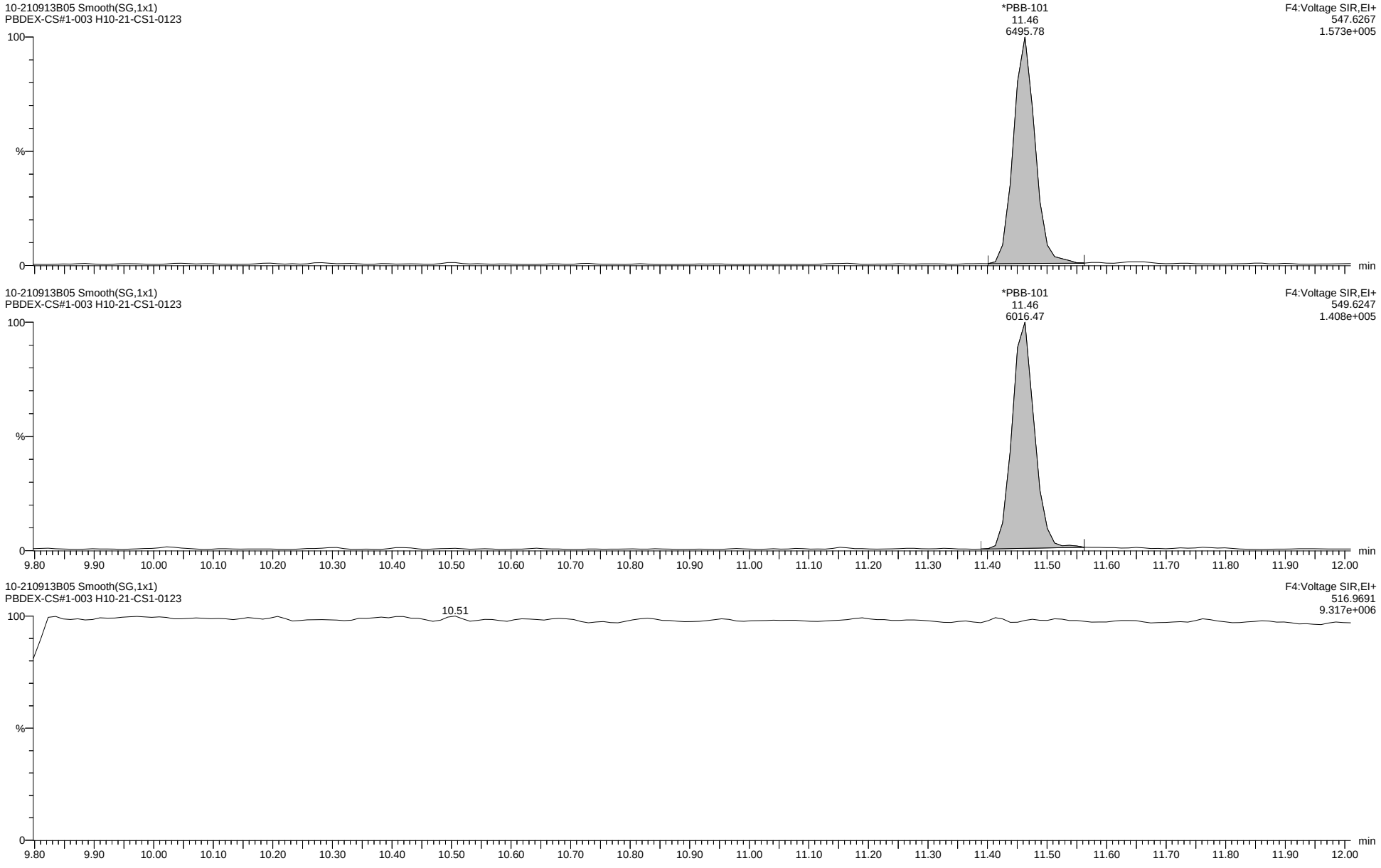

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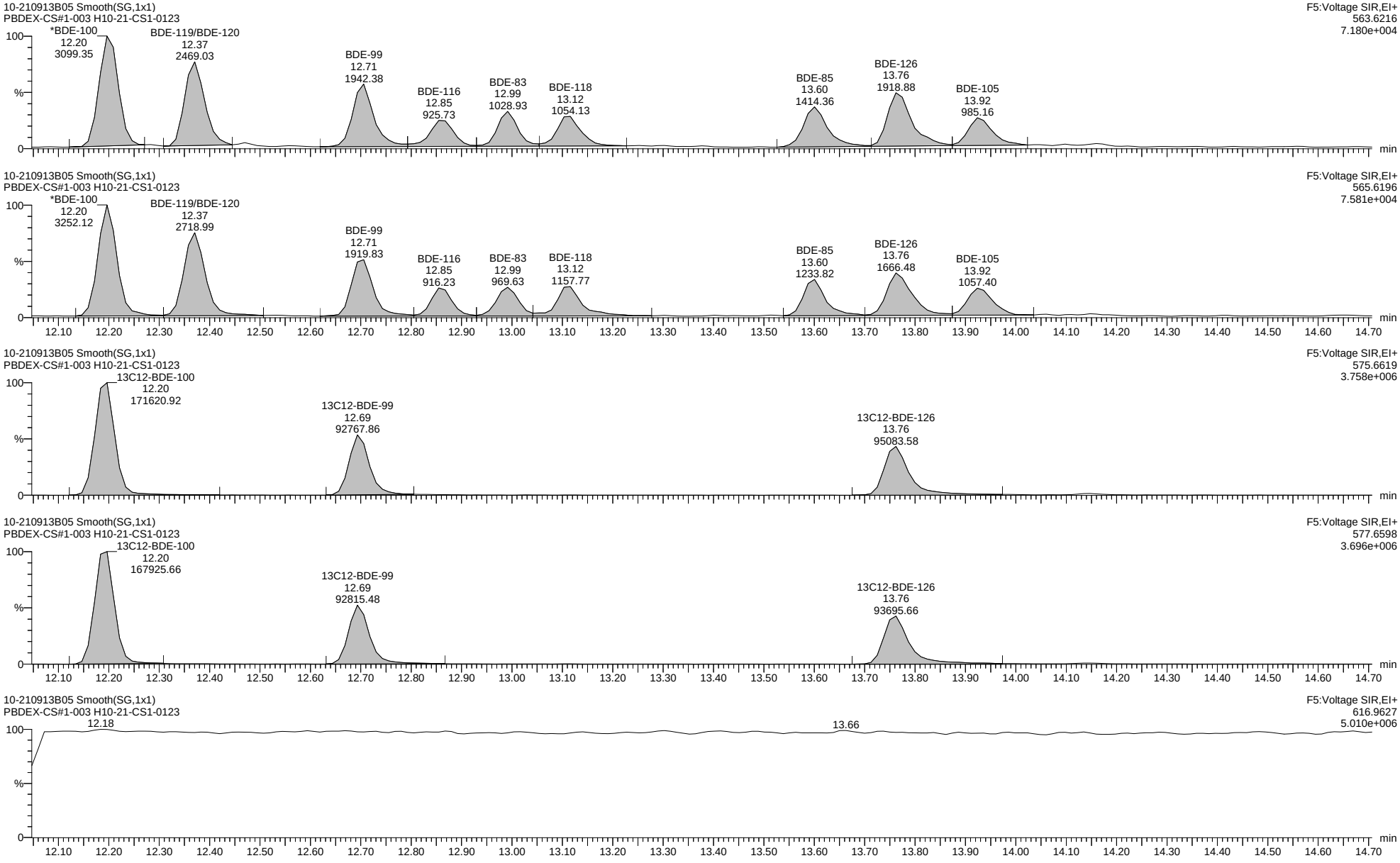

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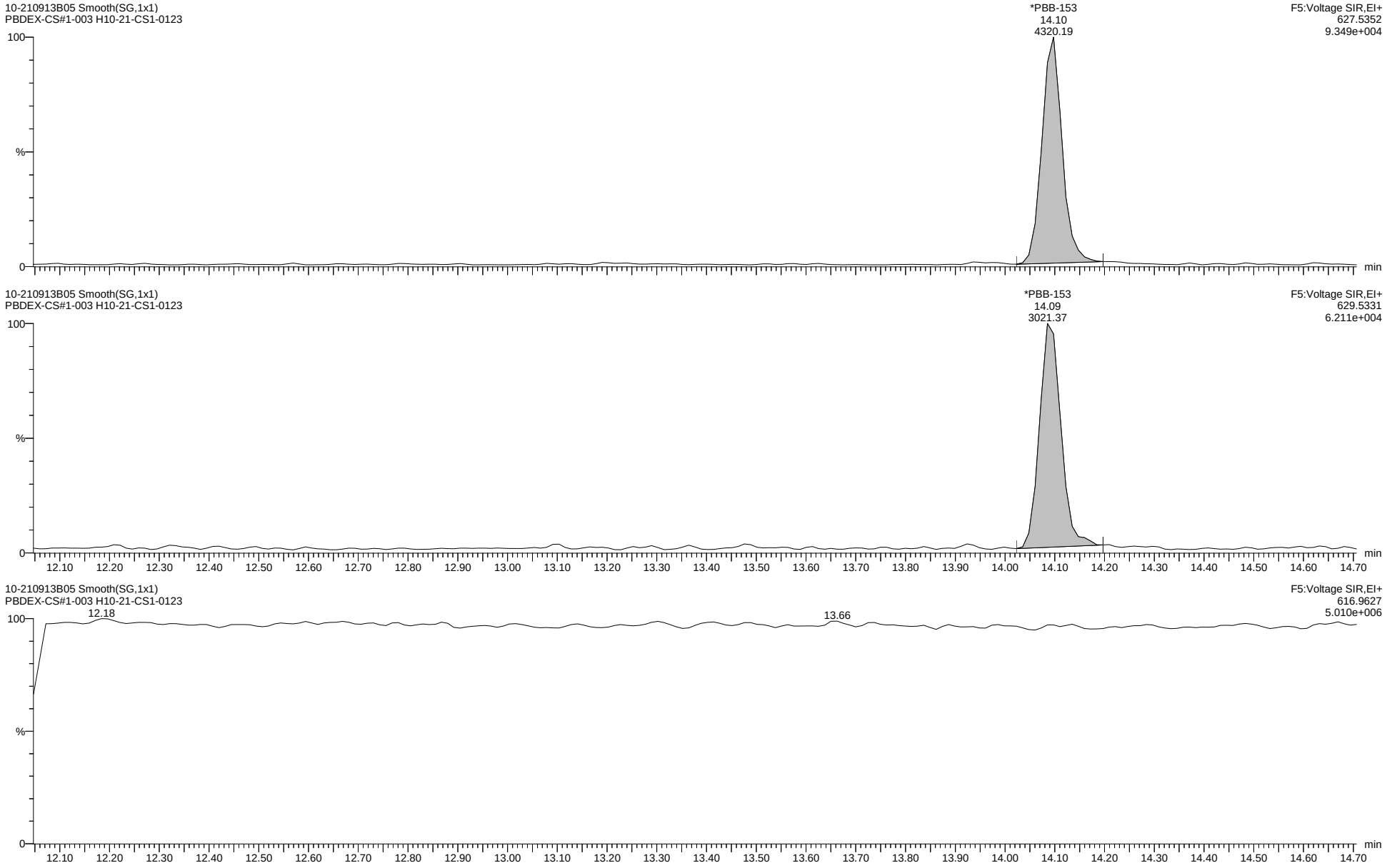

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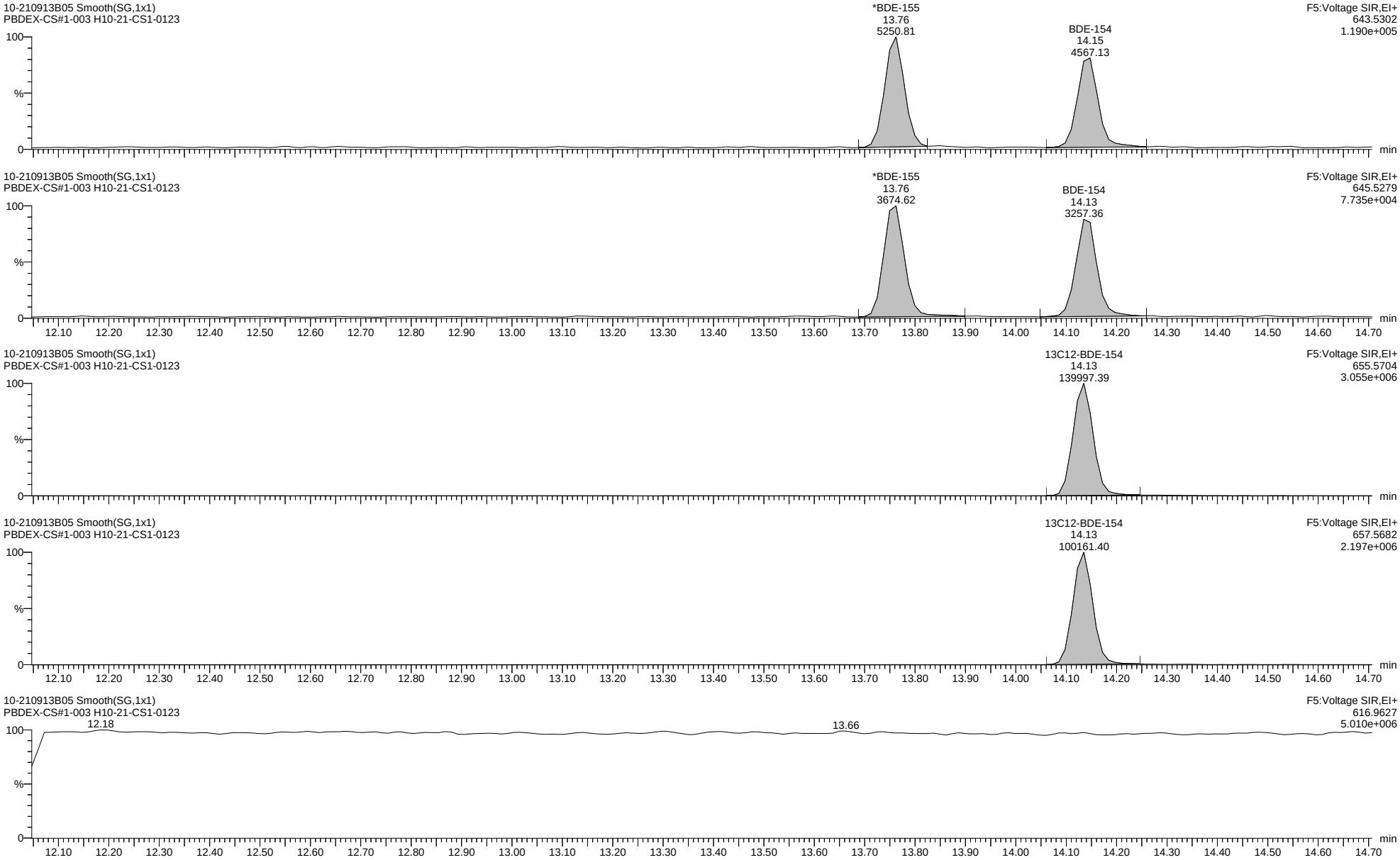

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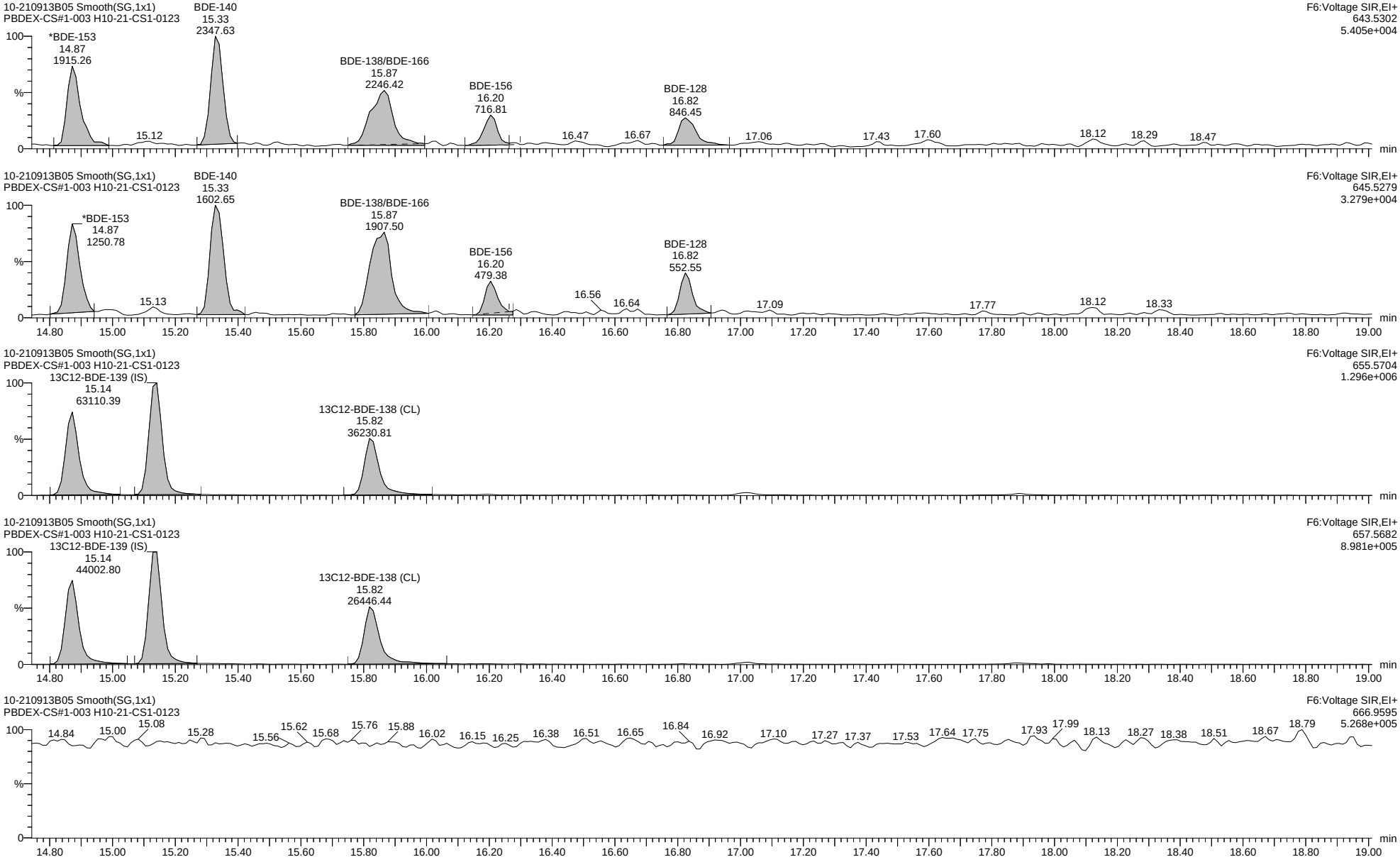

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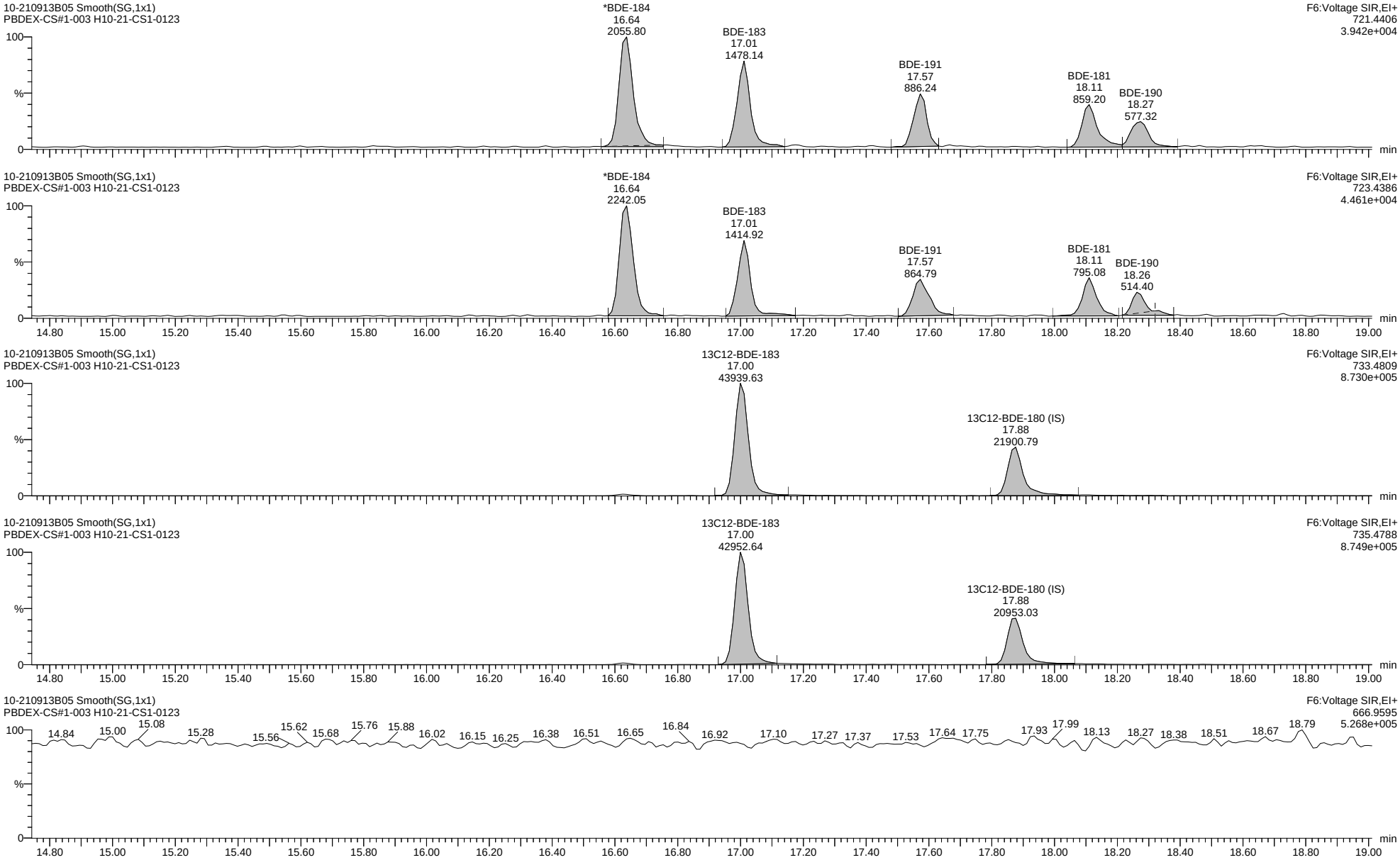

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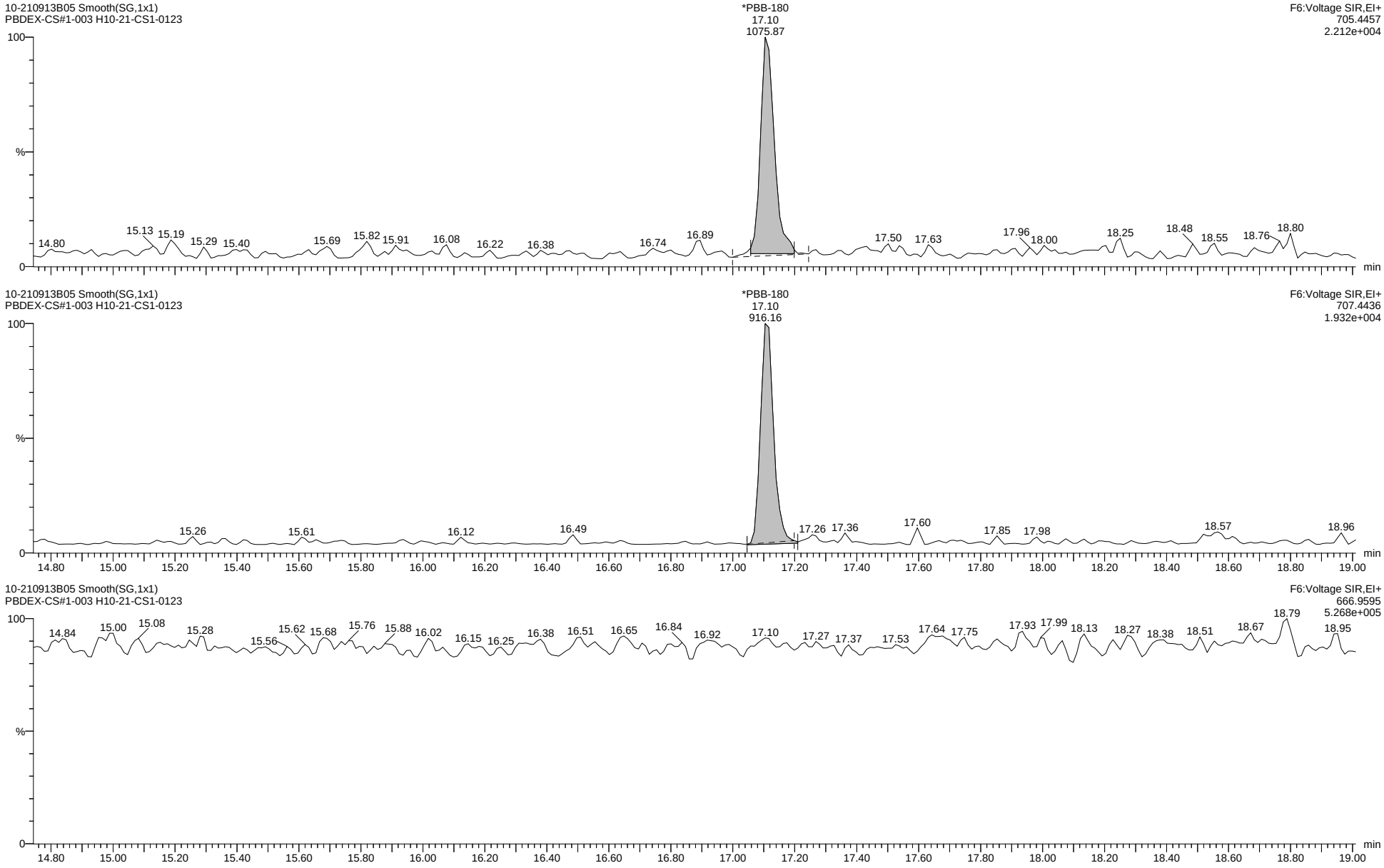

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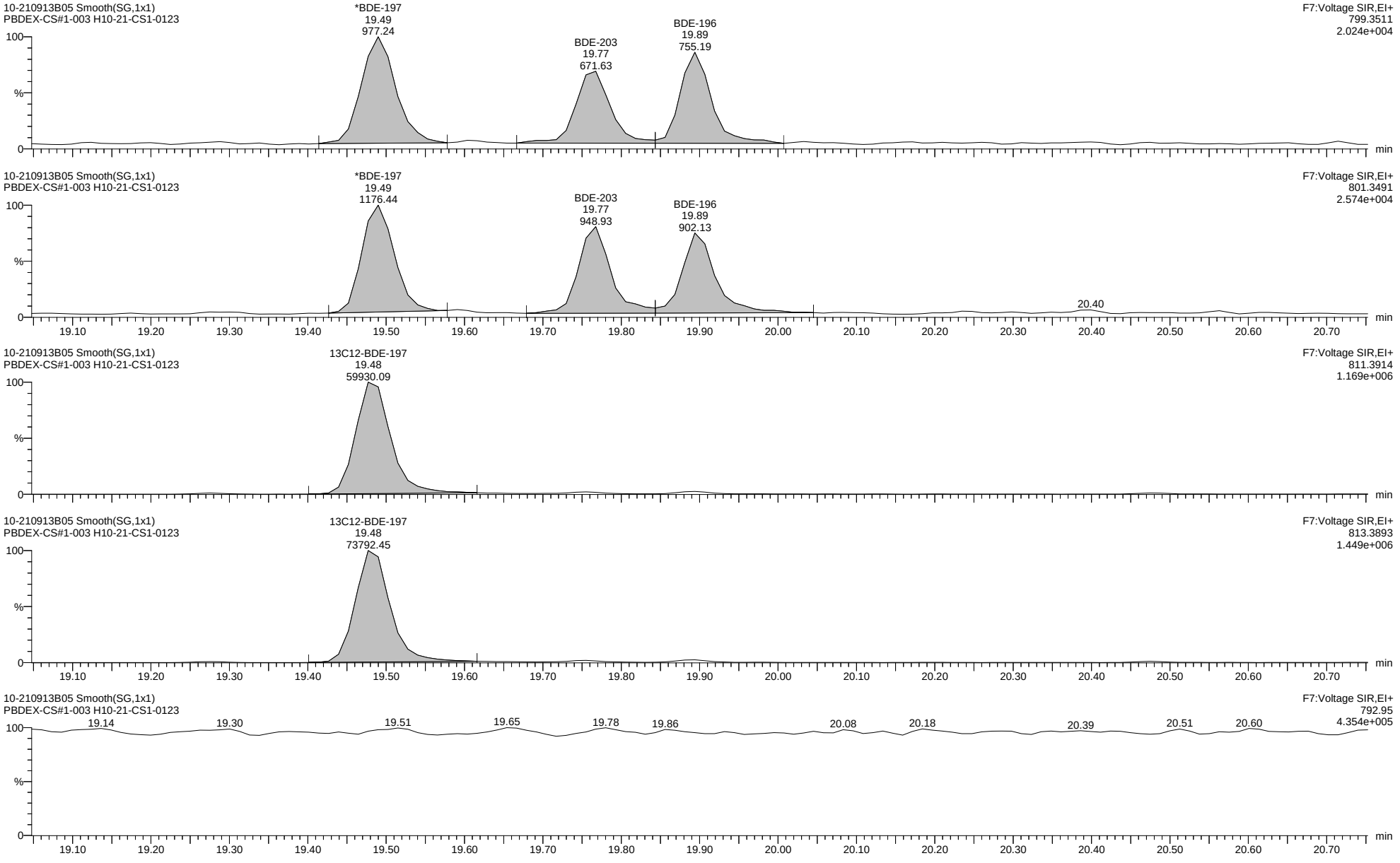

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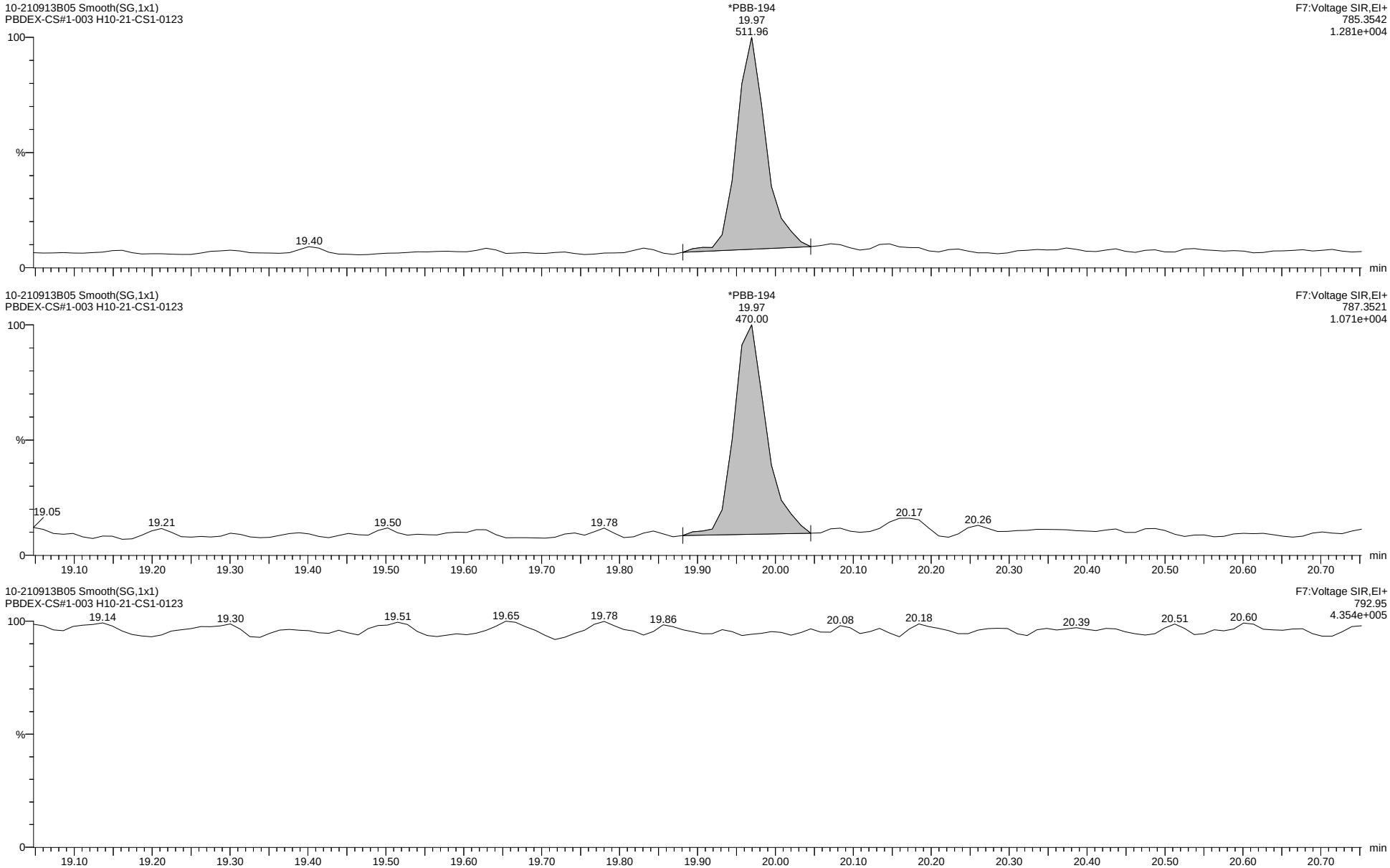

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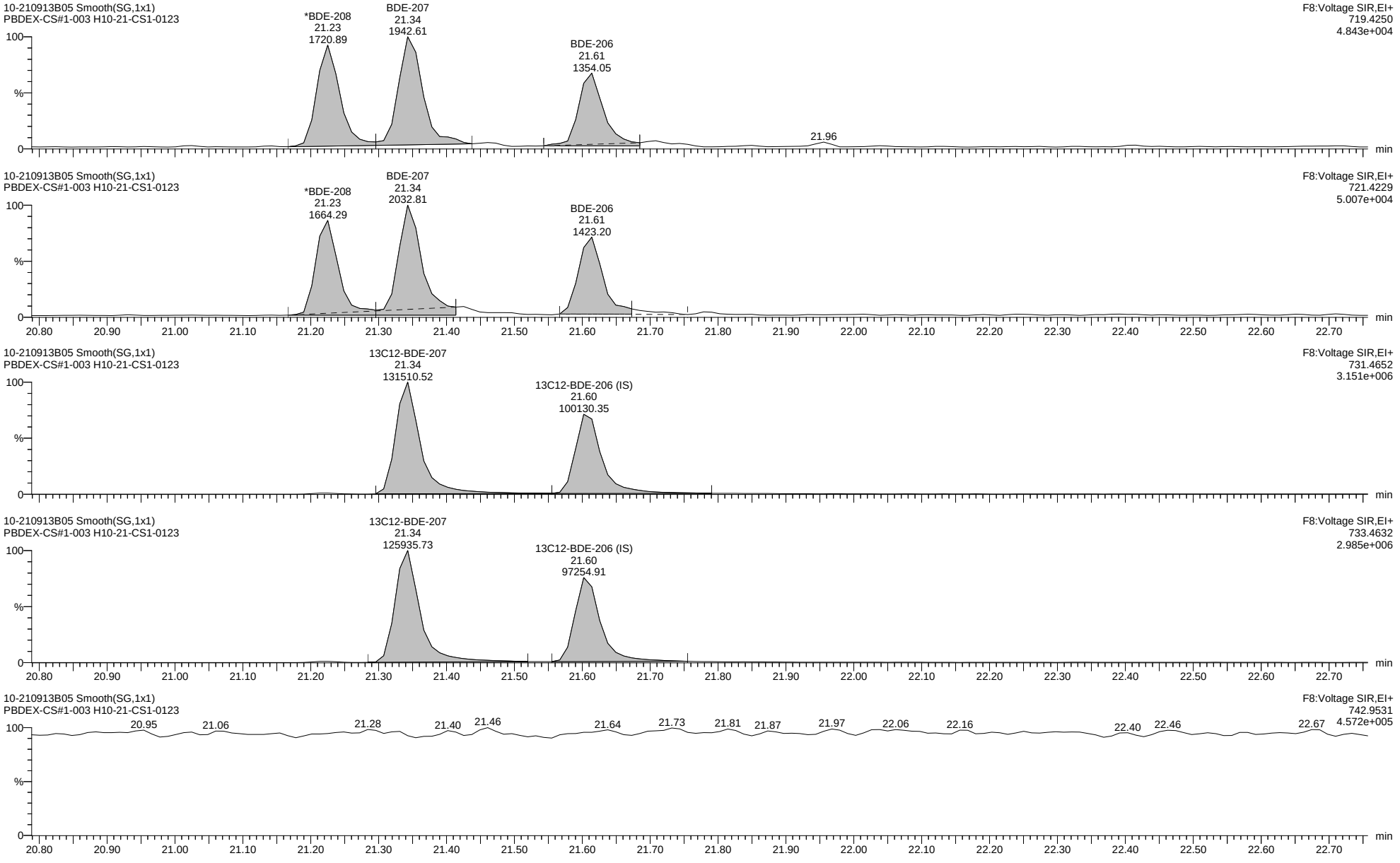

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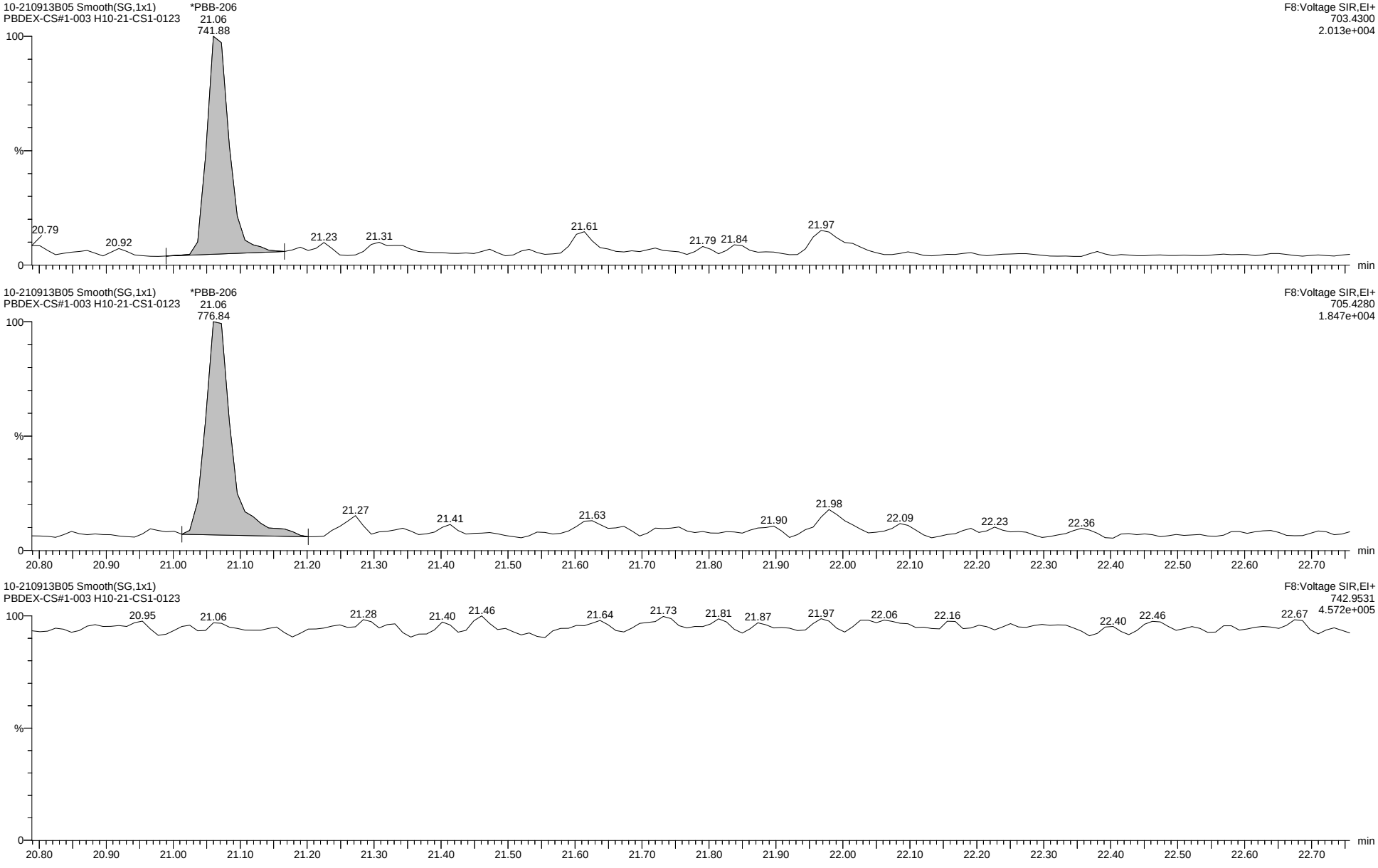

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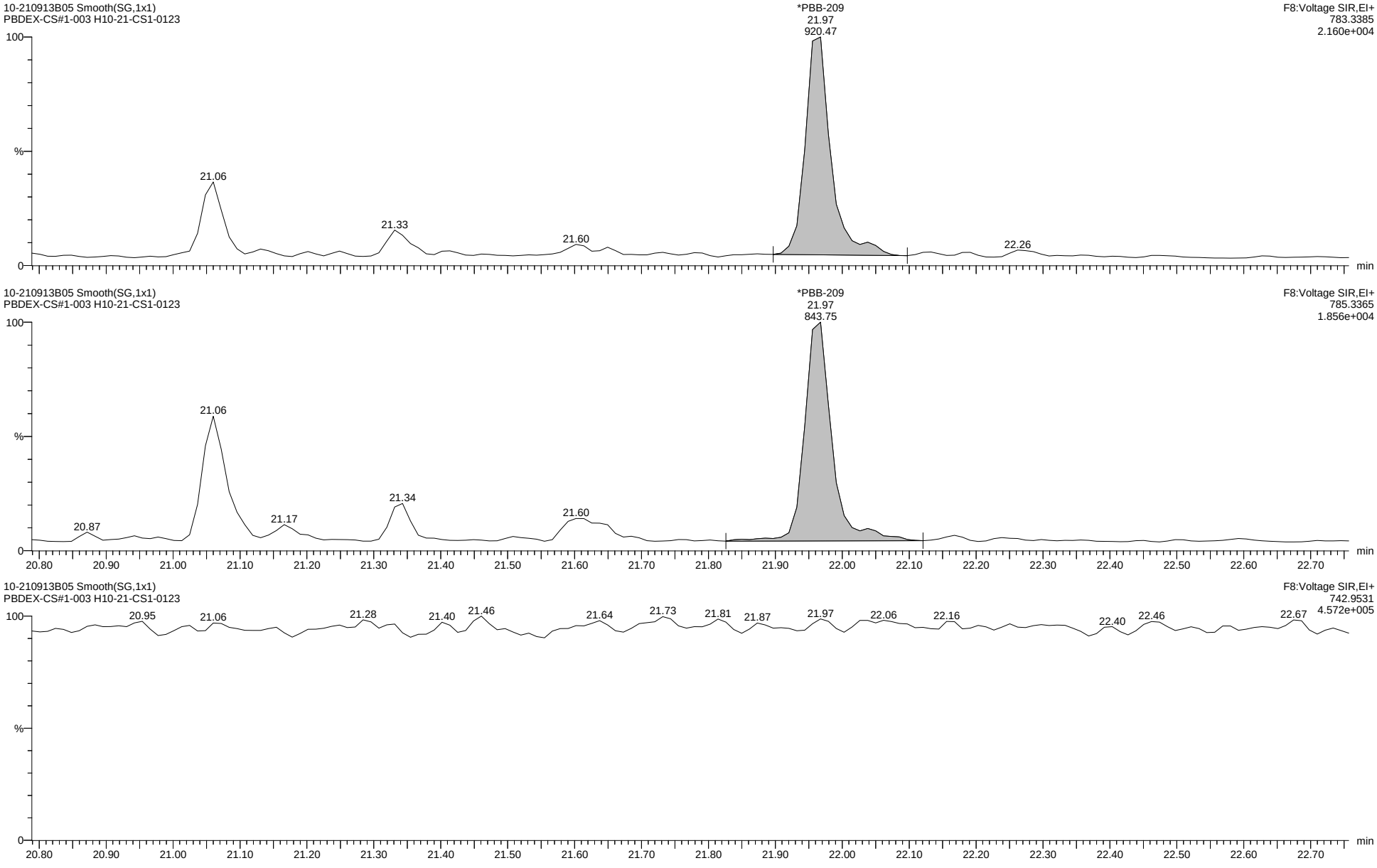

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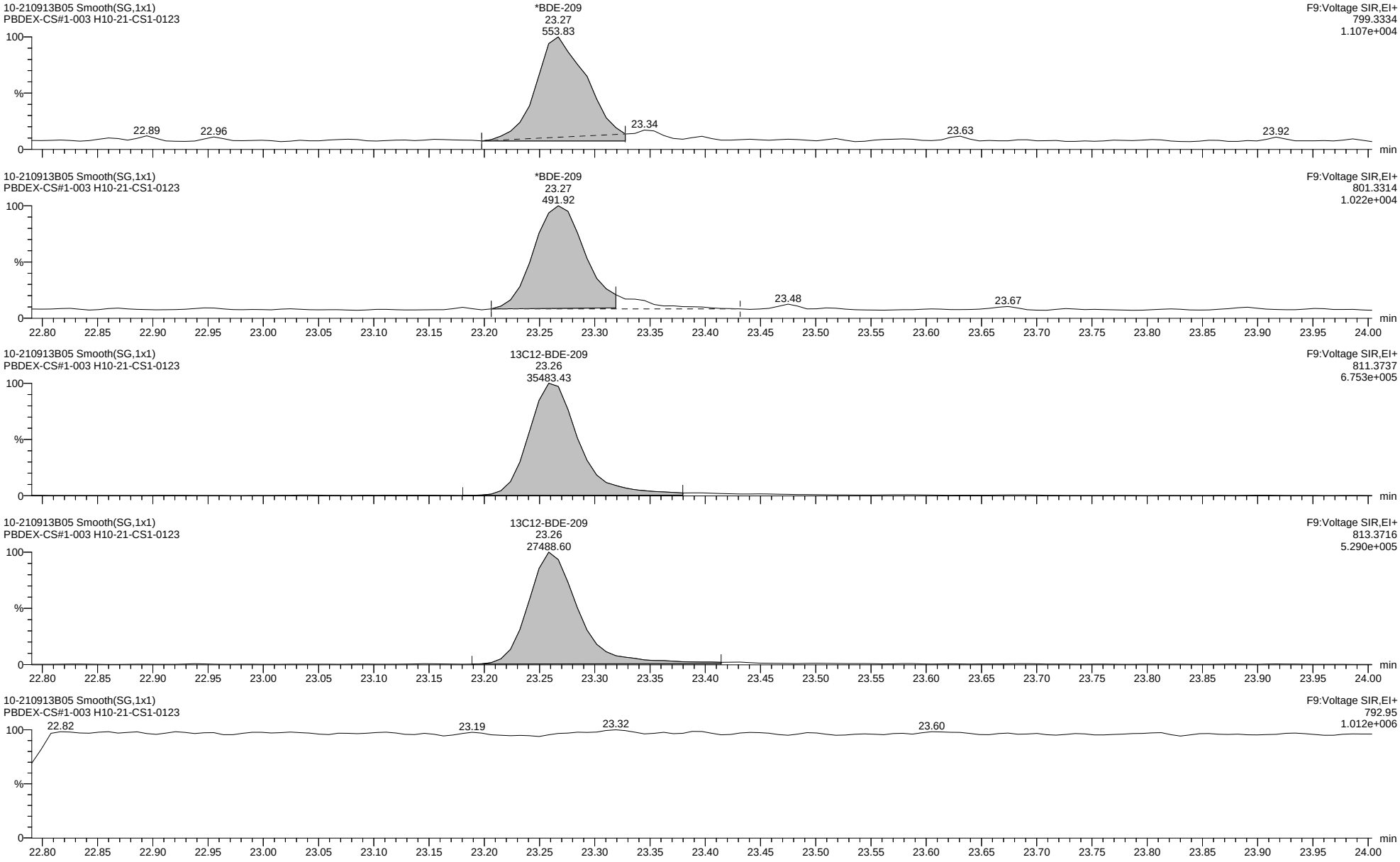

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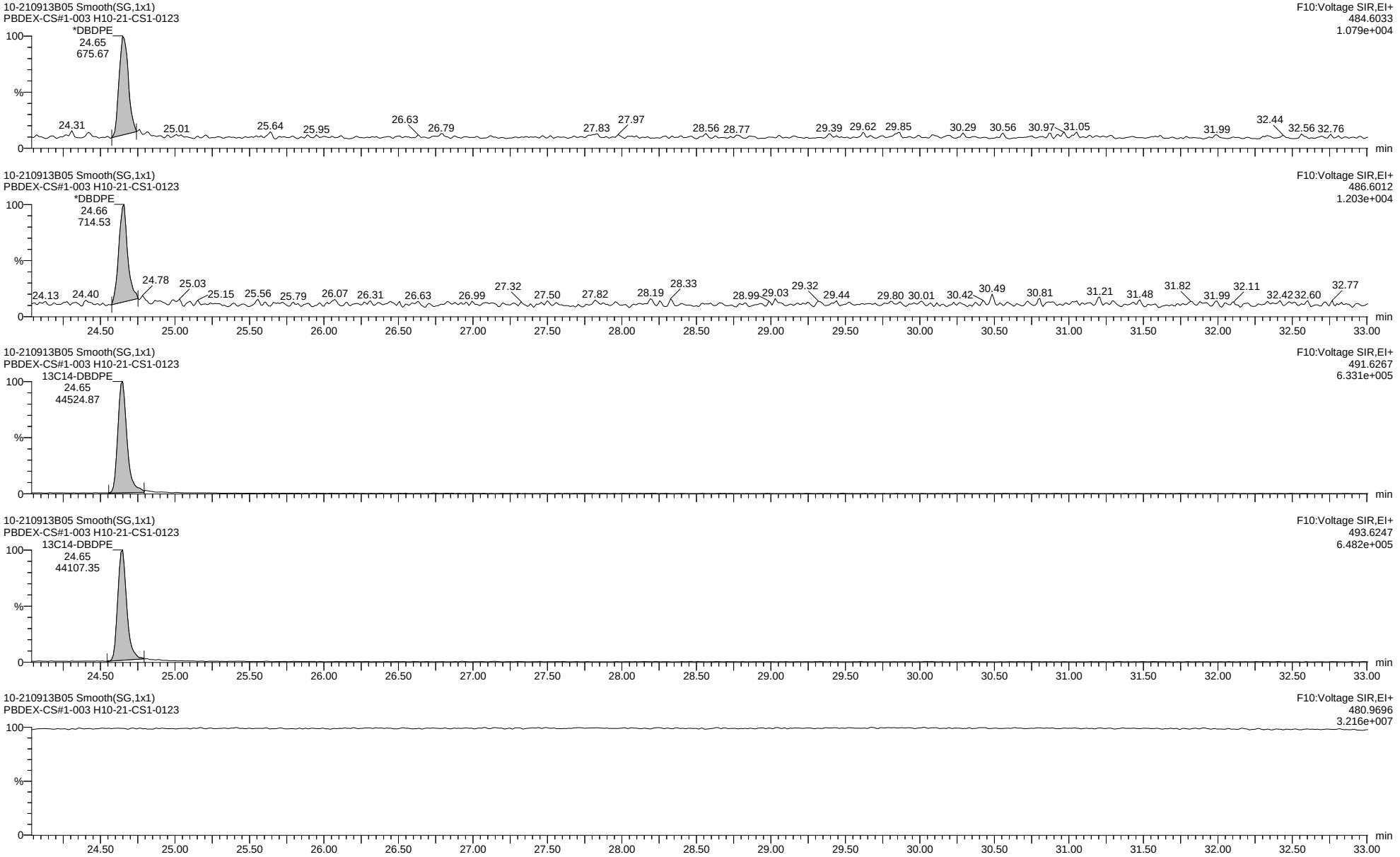

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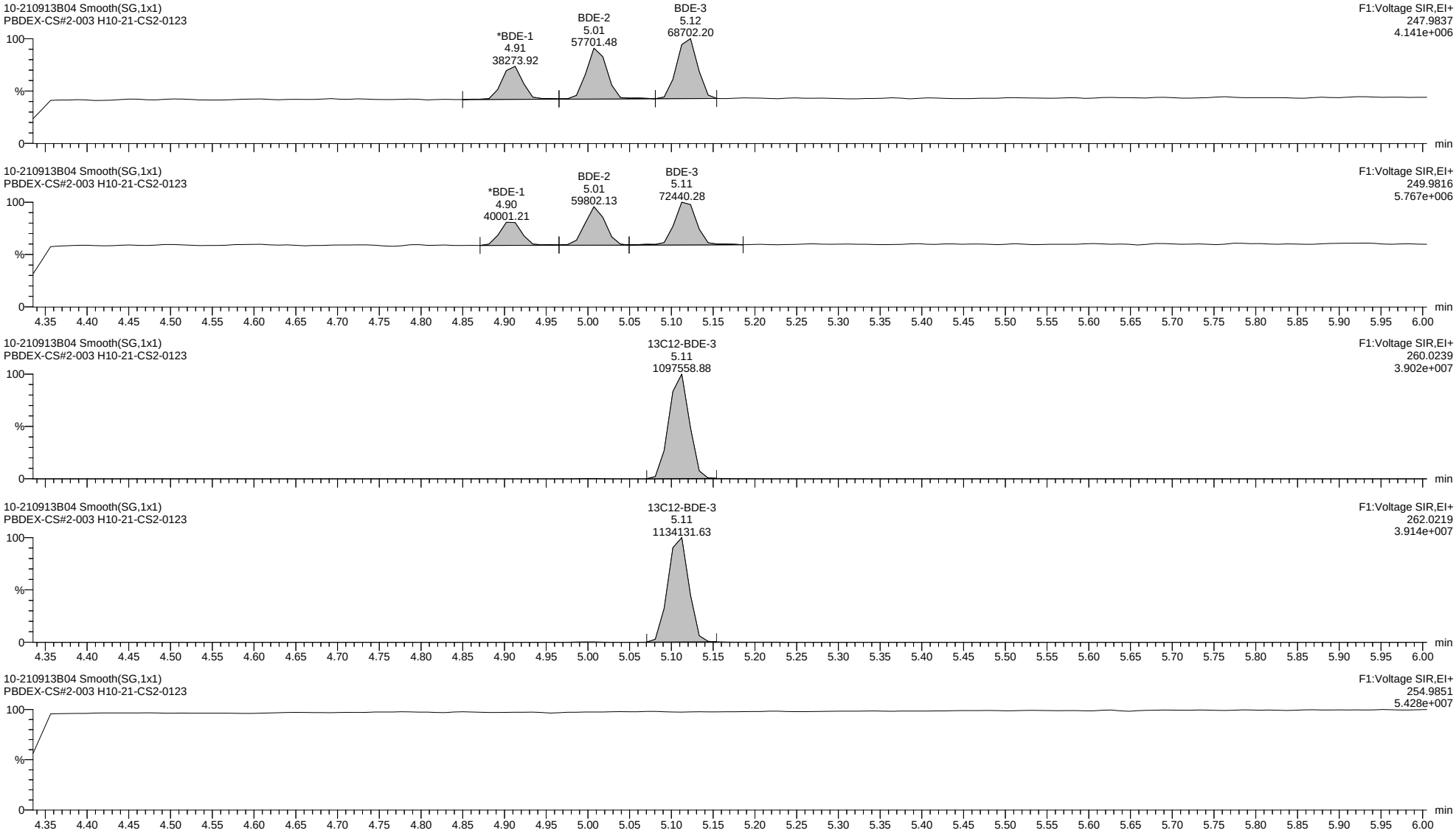

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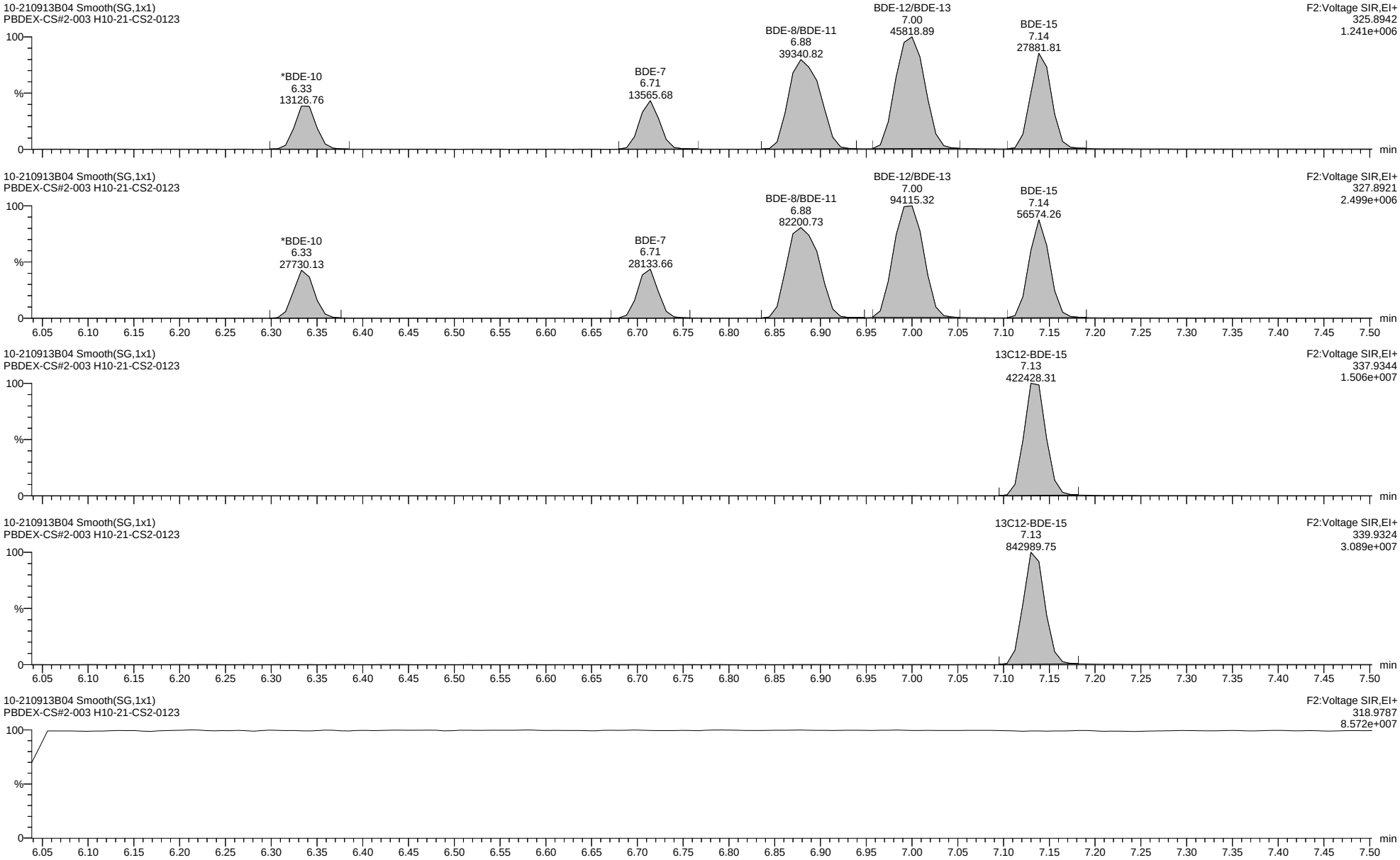

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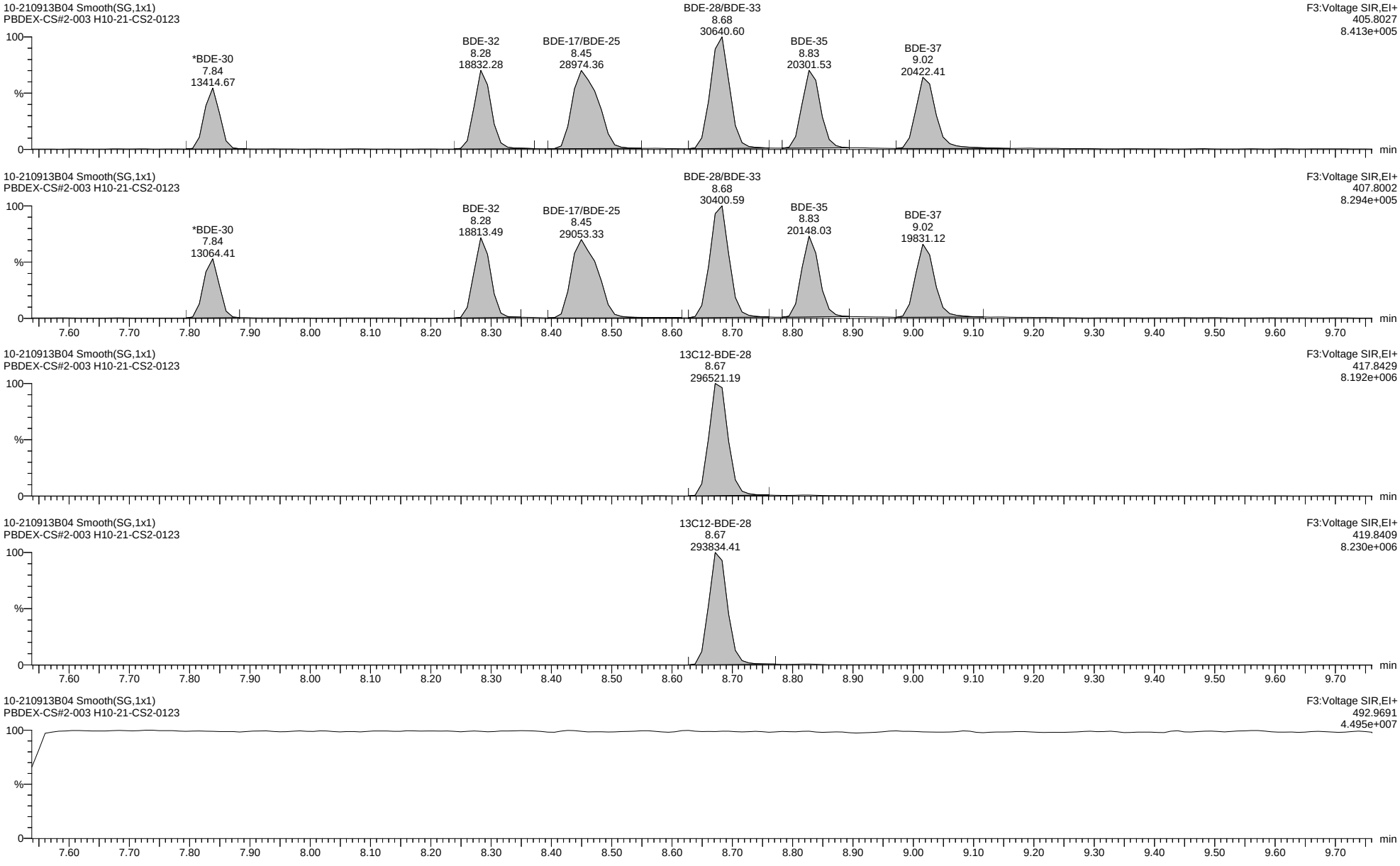

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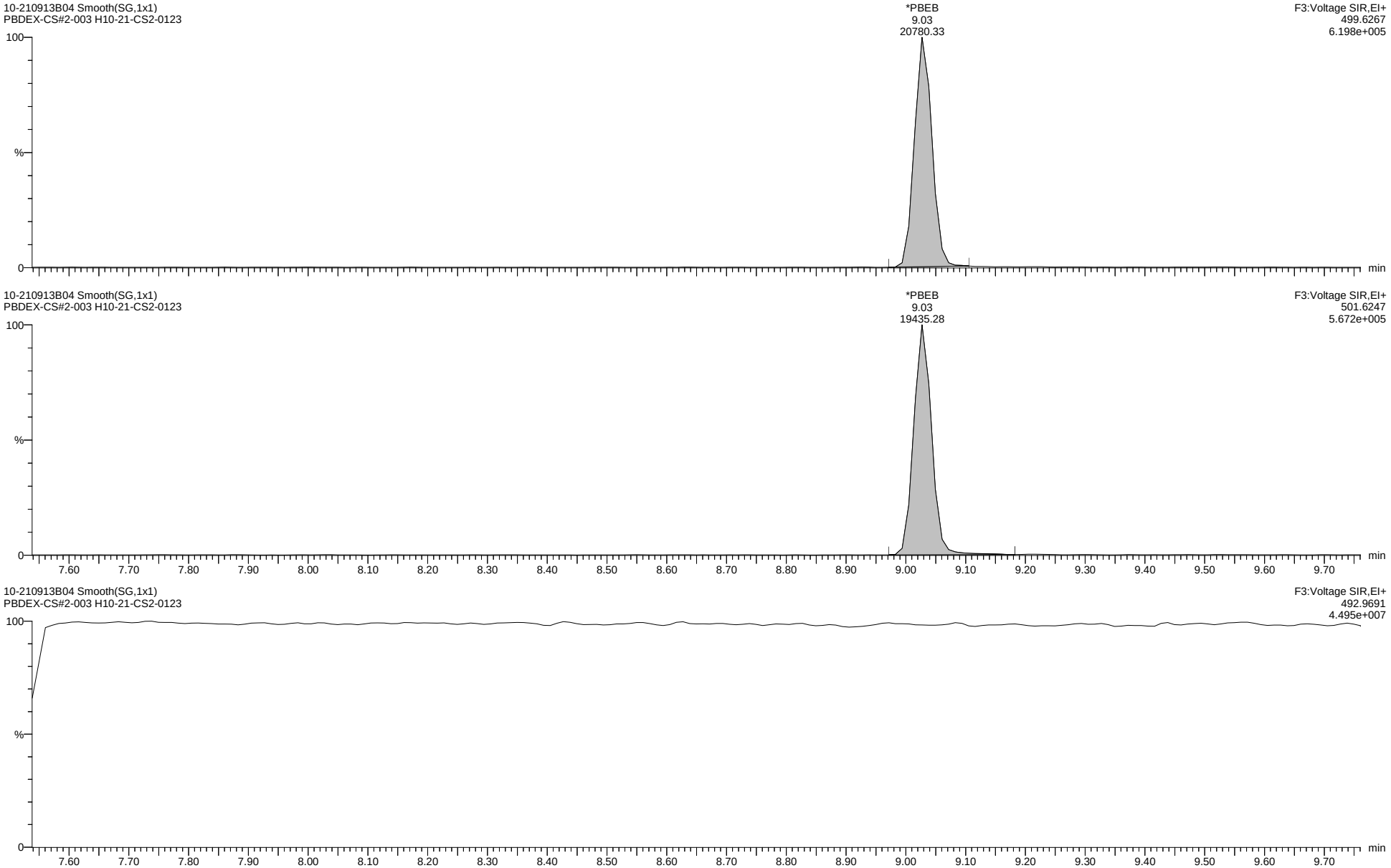

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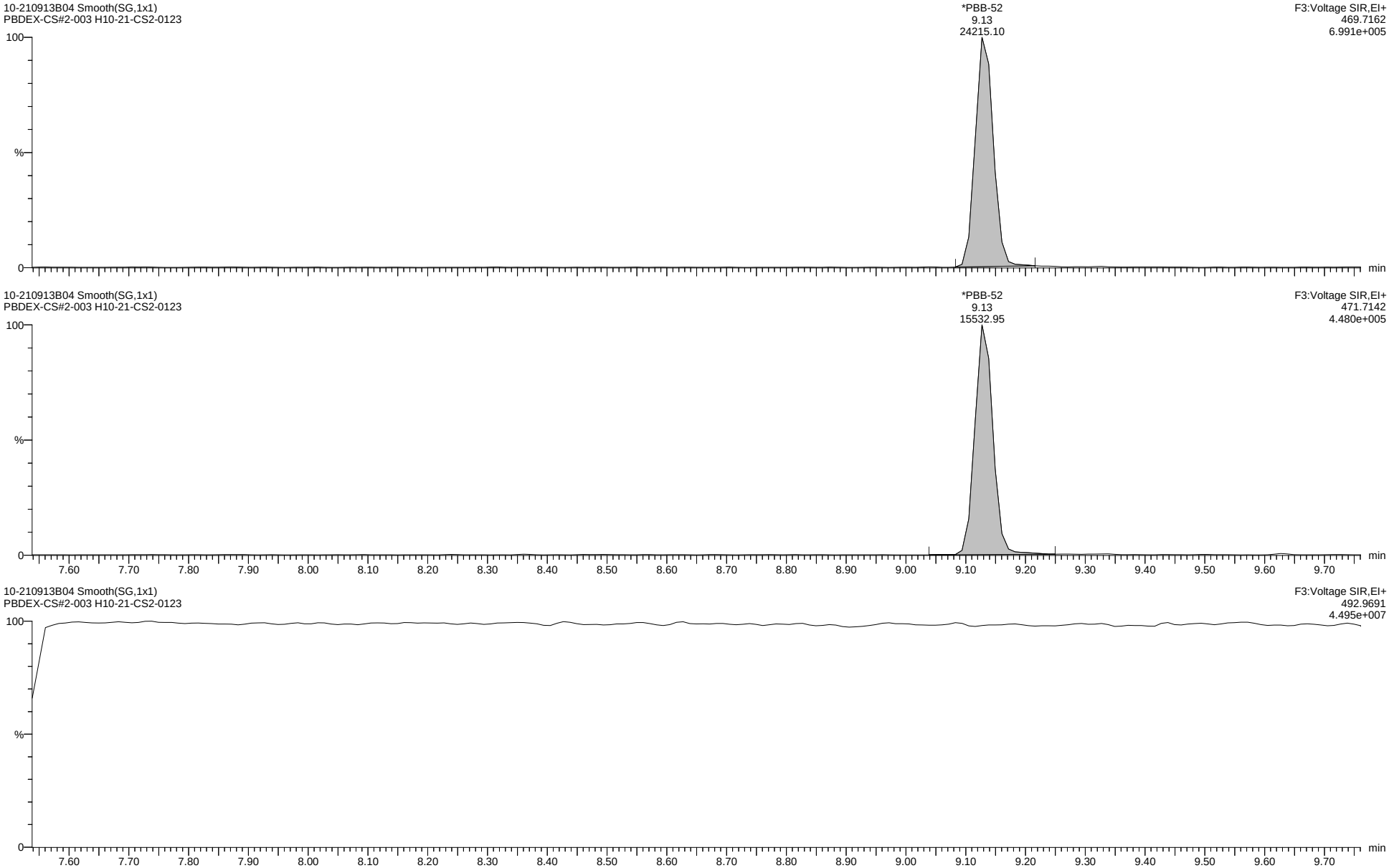

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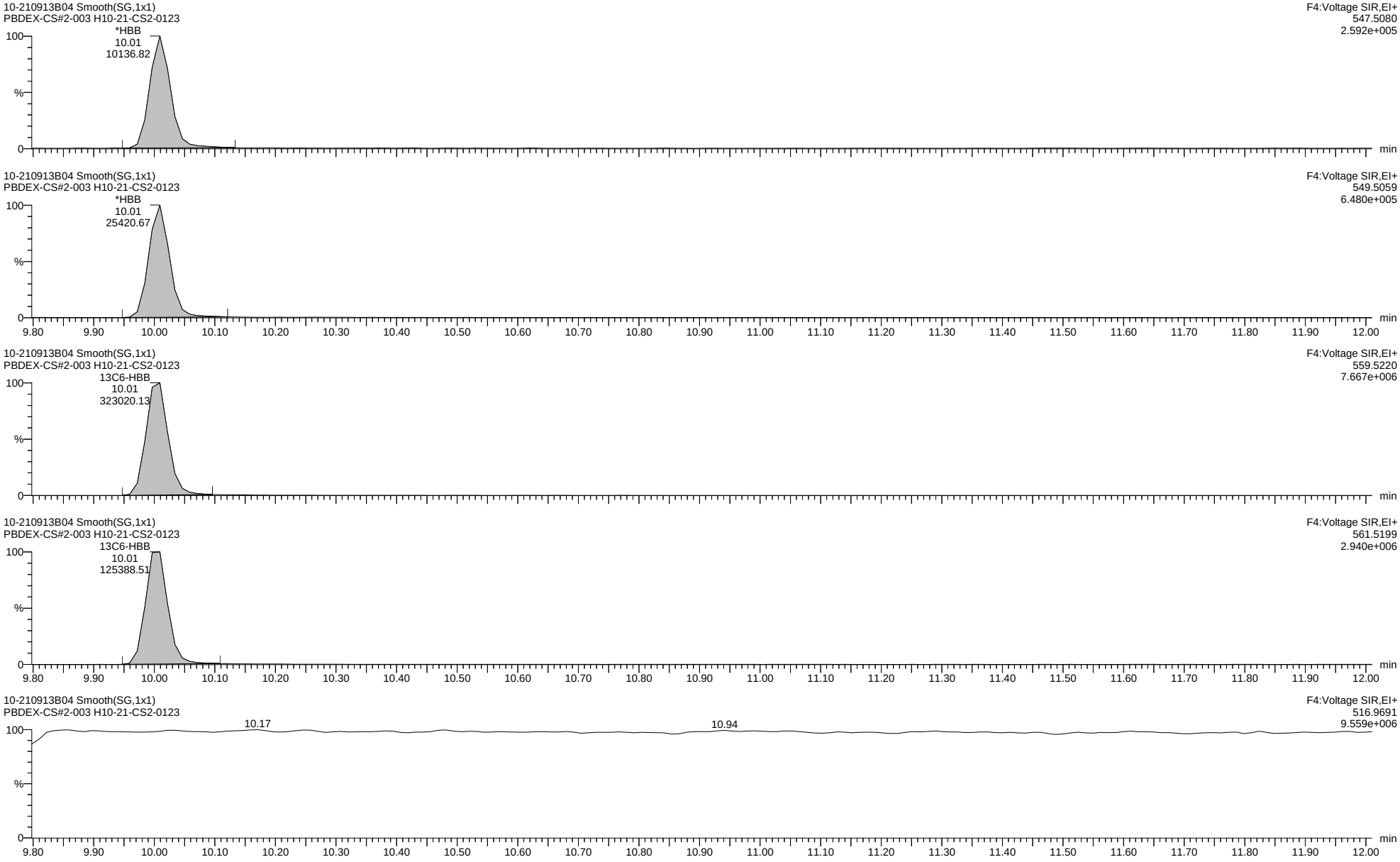

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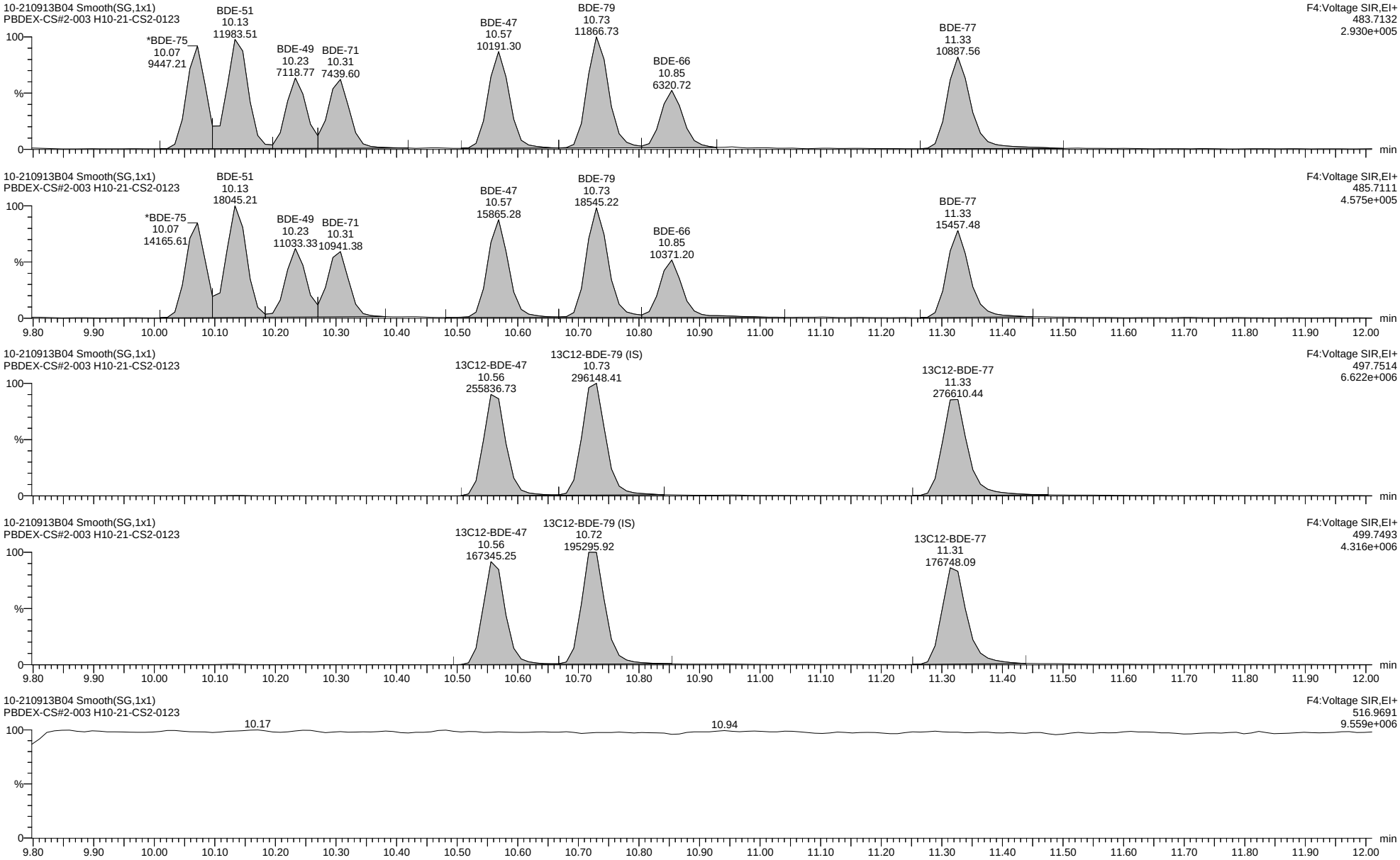

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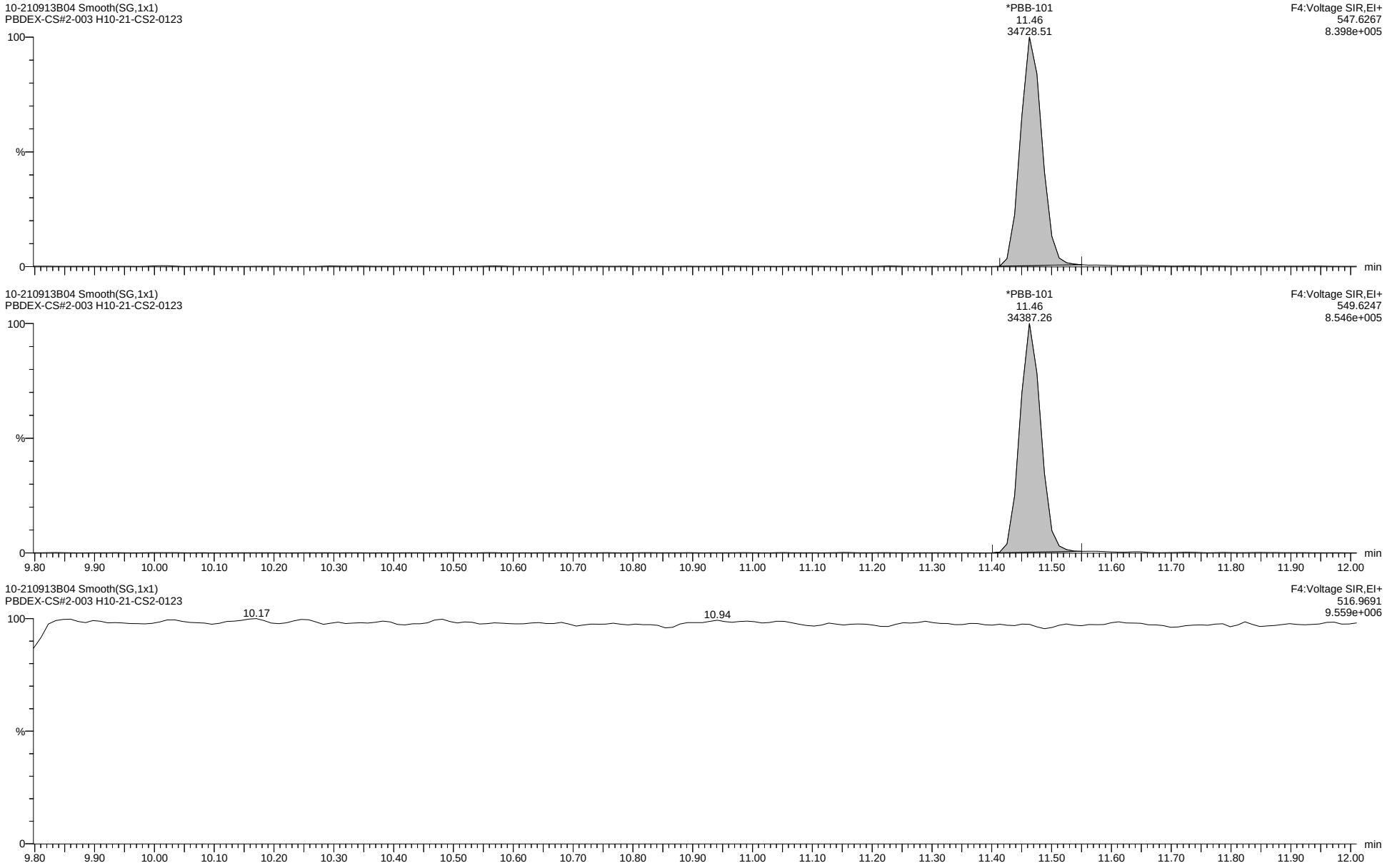

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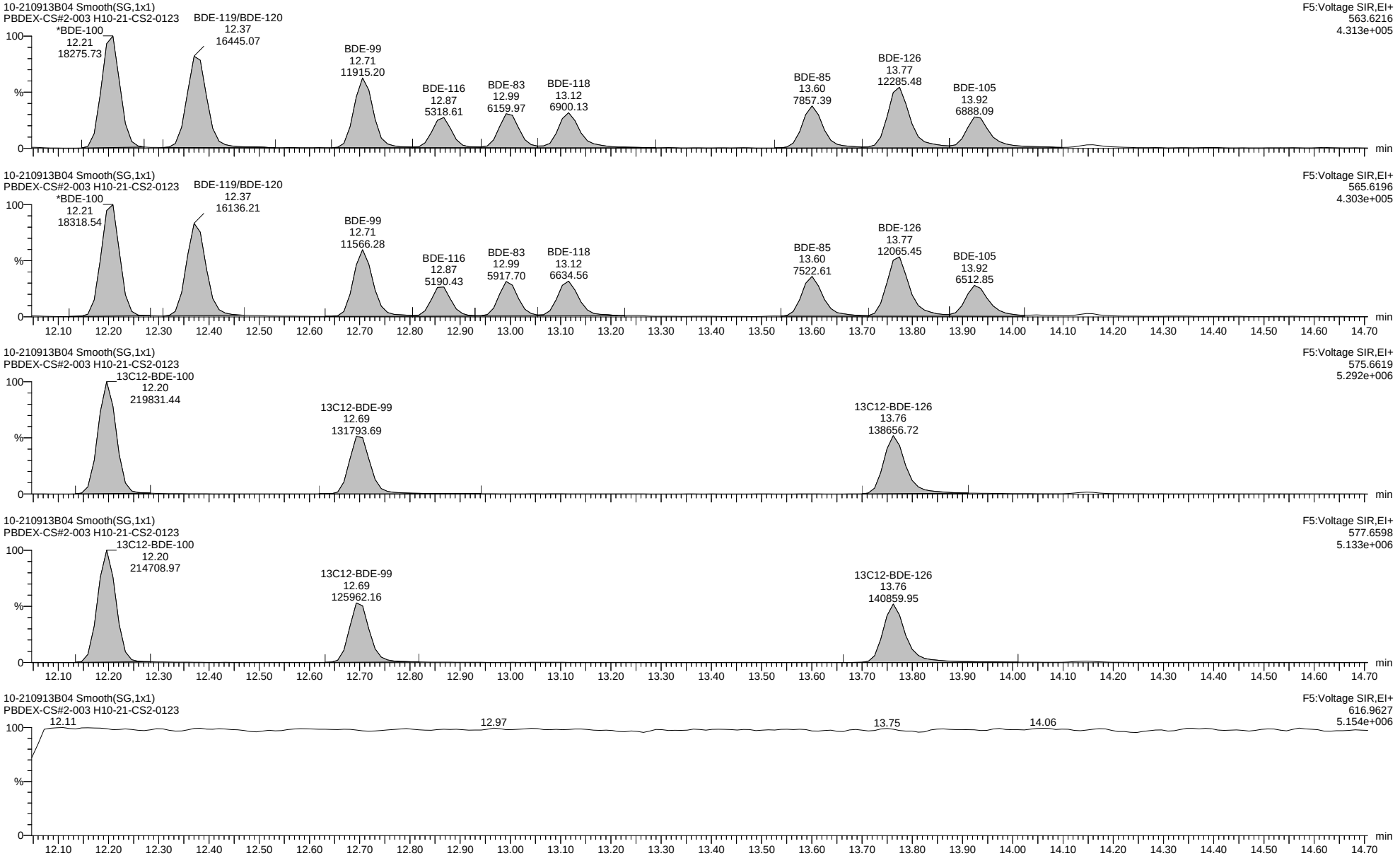

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Printed: Friday, September 17, 2021 10:50:04 Eastern Daylight Time

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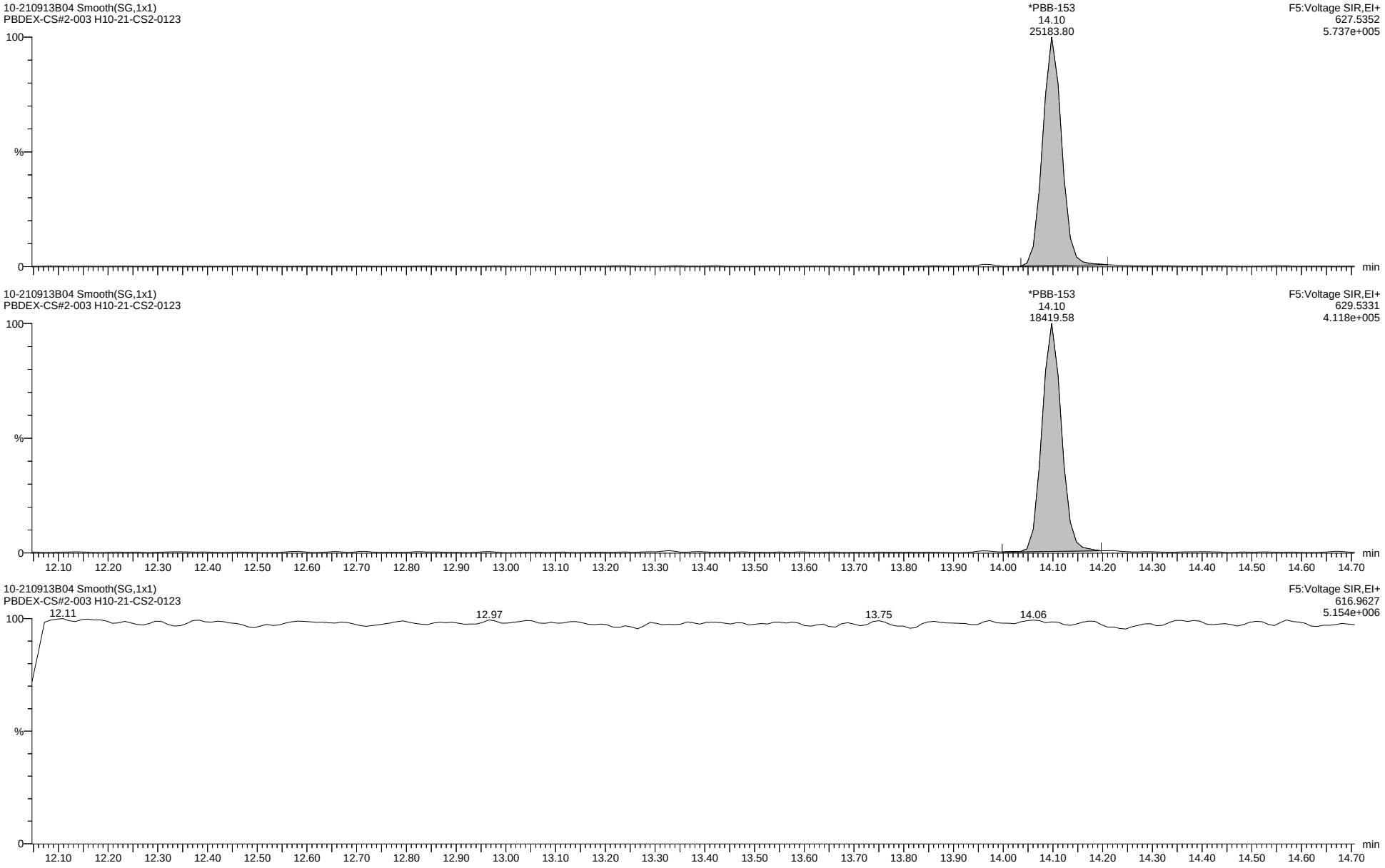

Quantify Sample Template Report **MassLynx MassLynx V4.1 SCN 901**

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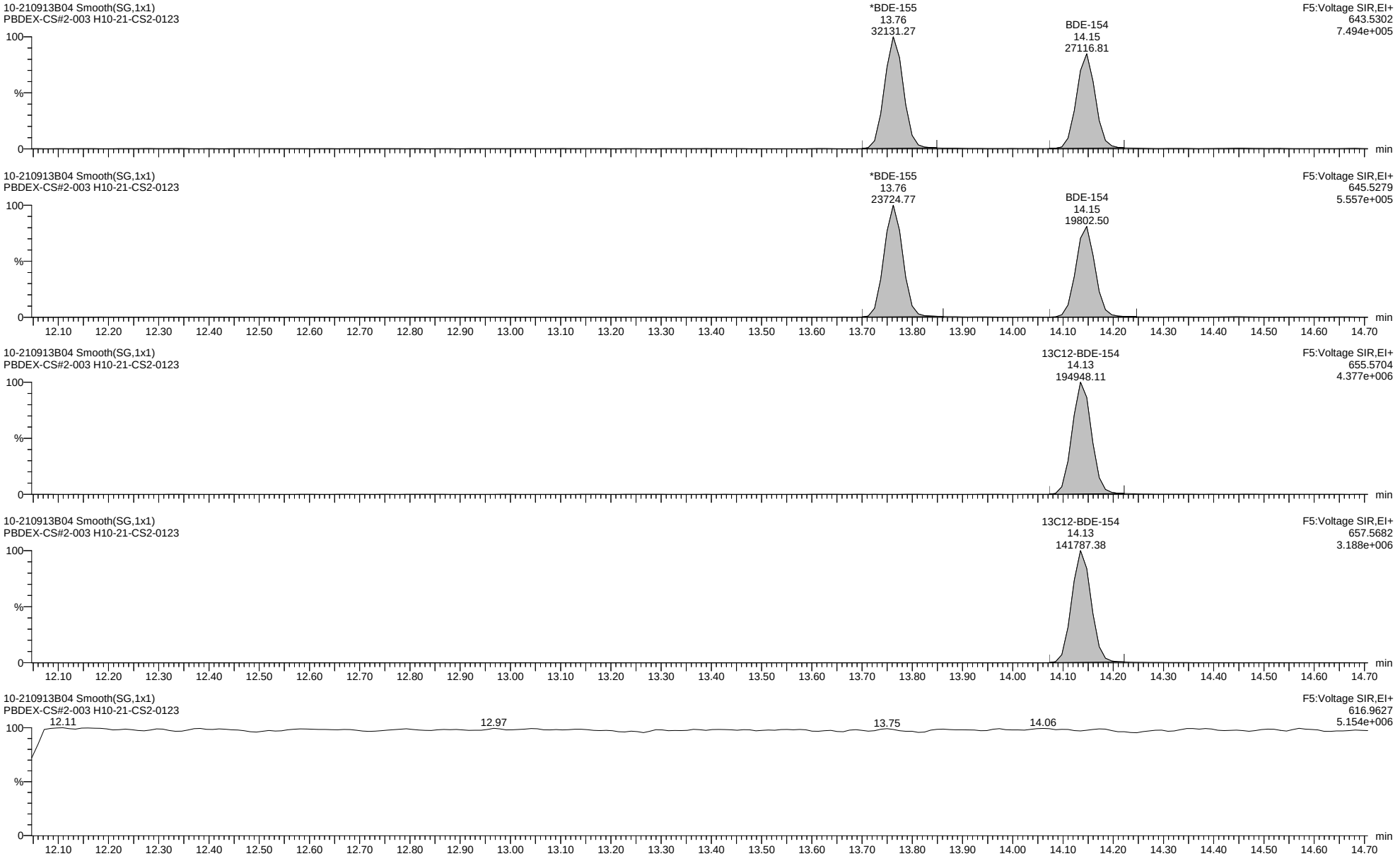

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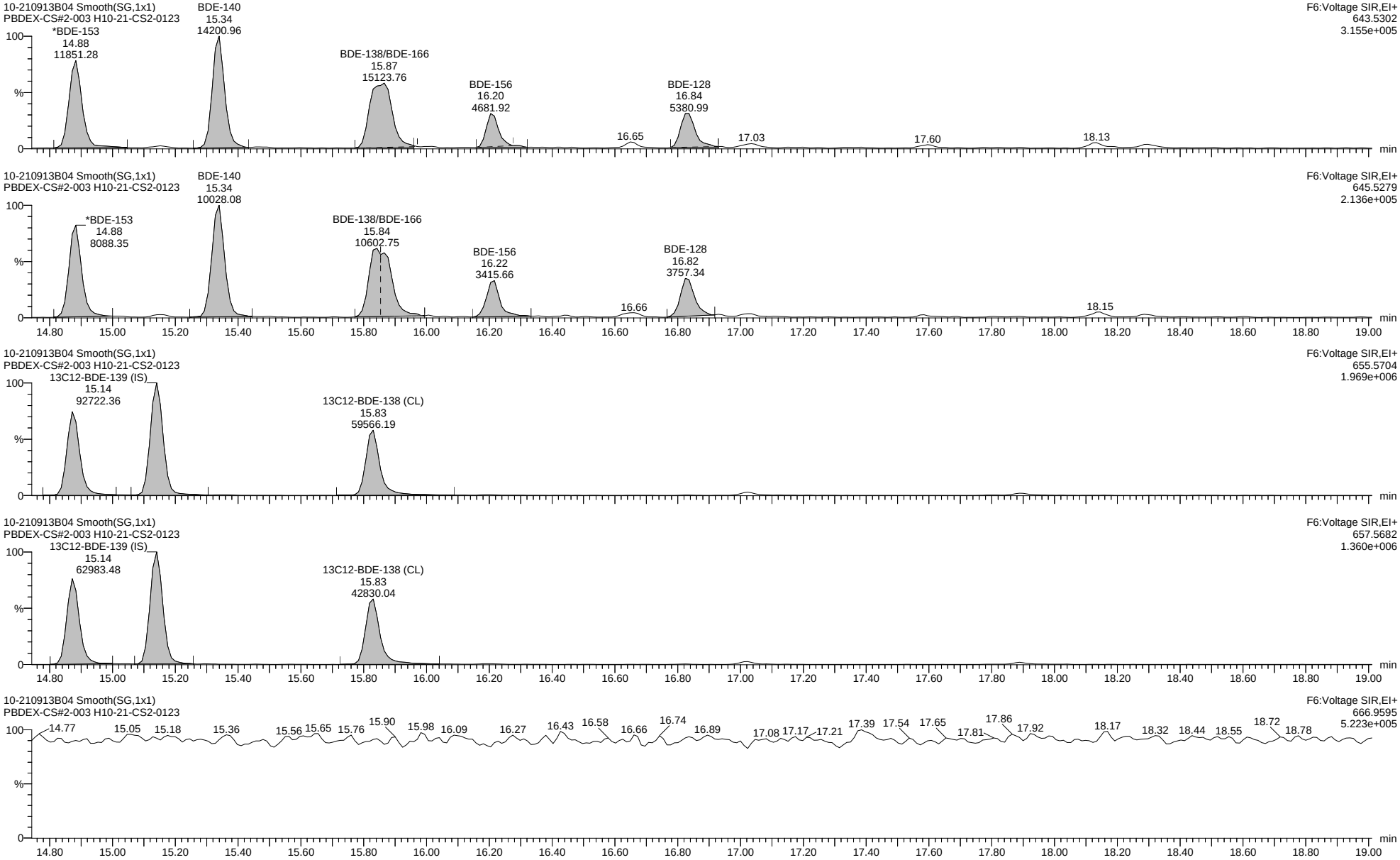

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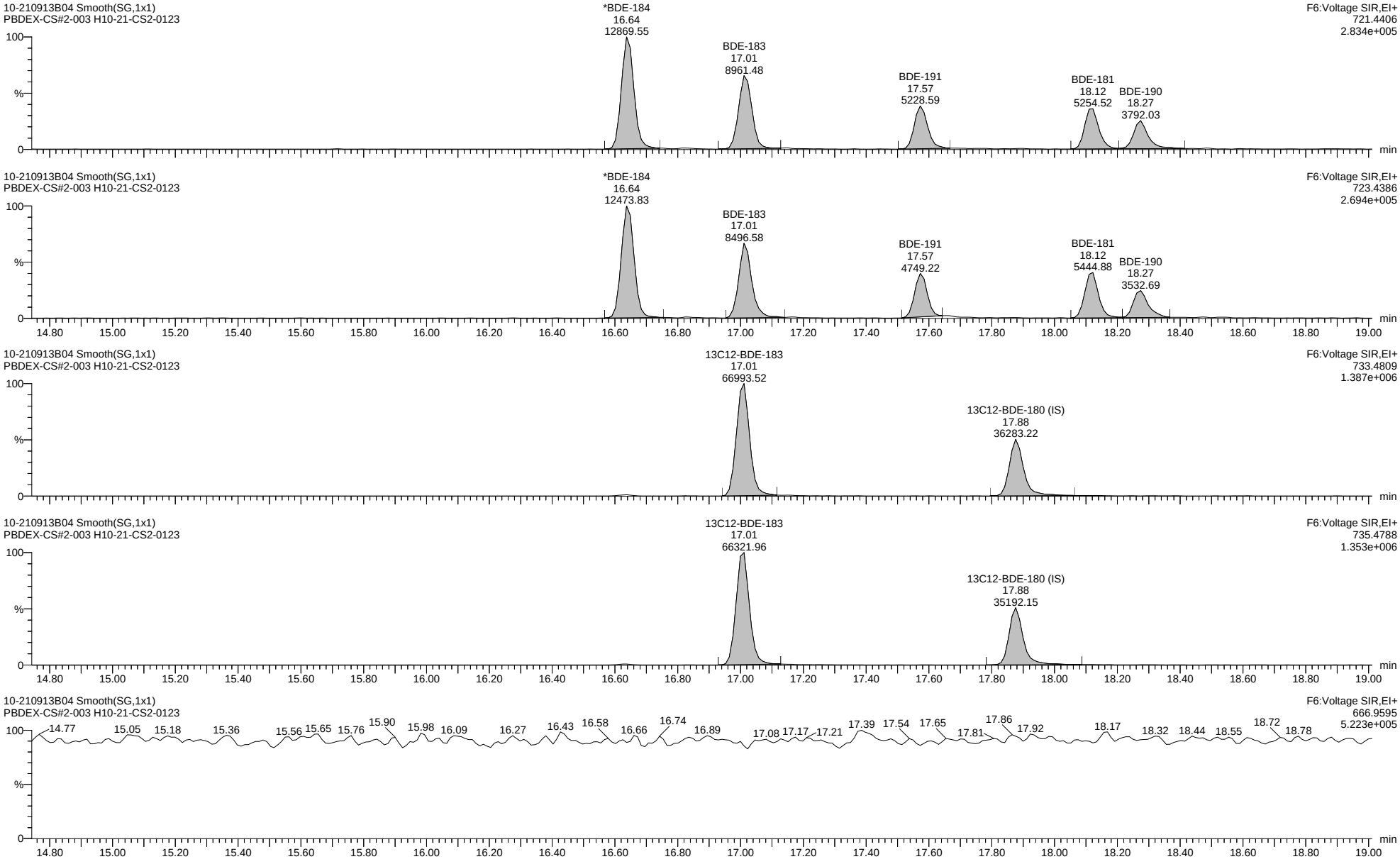

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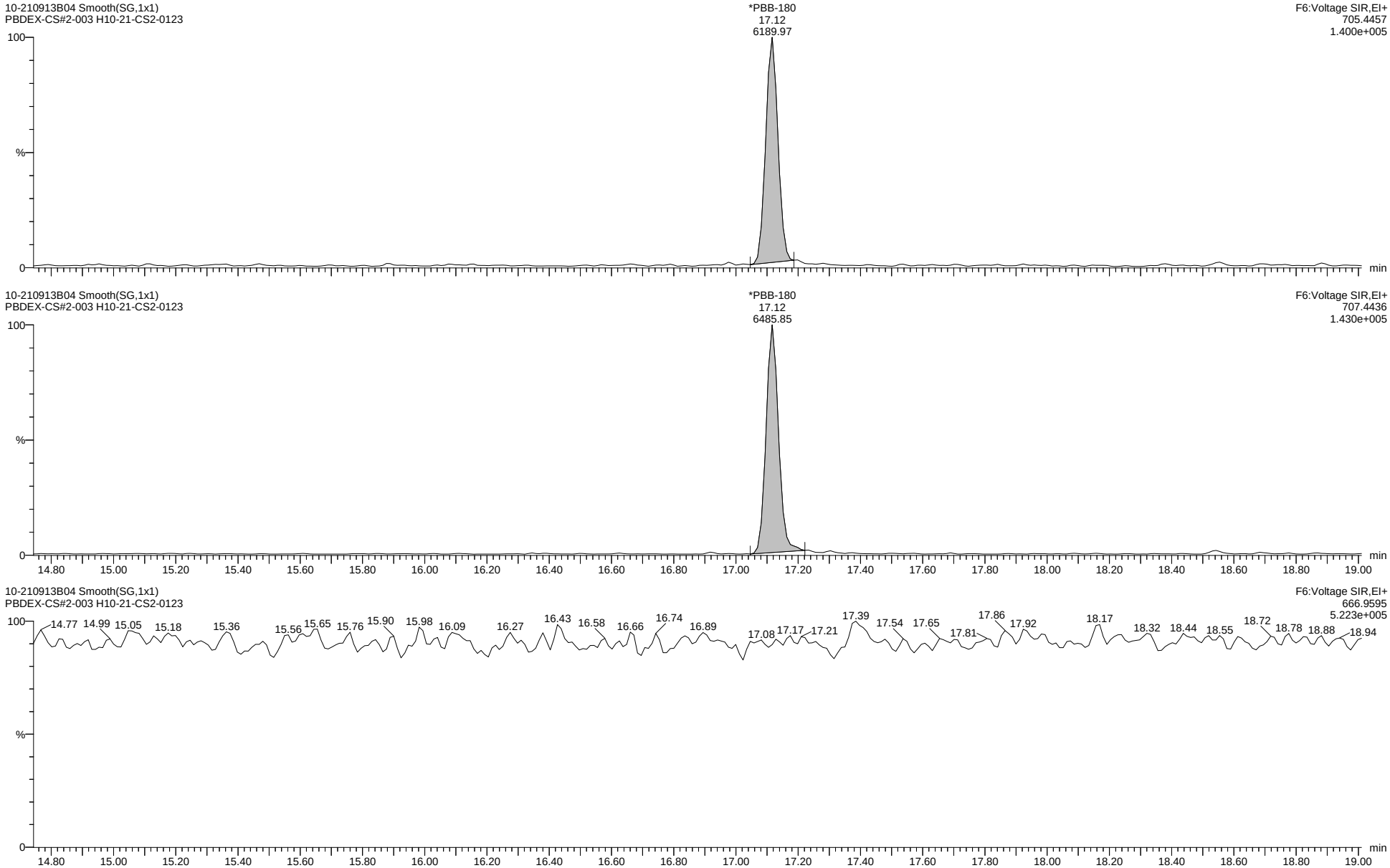

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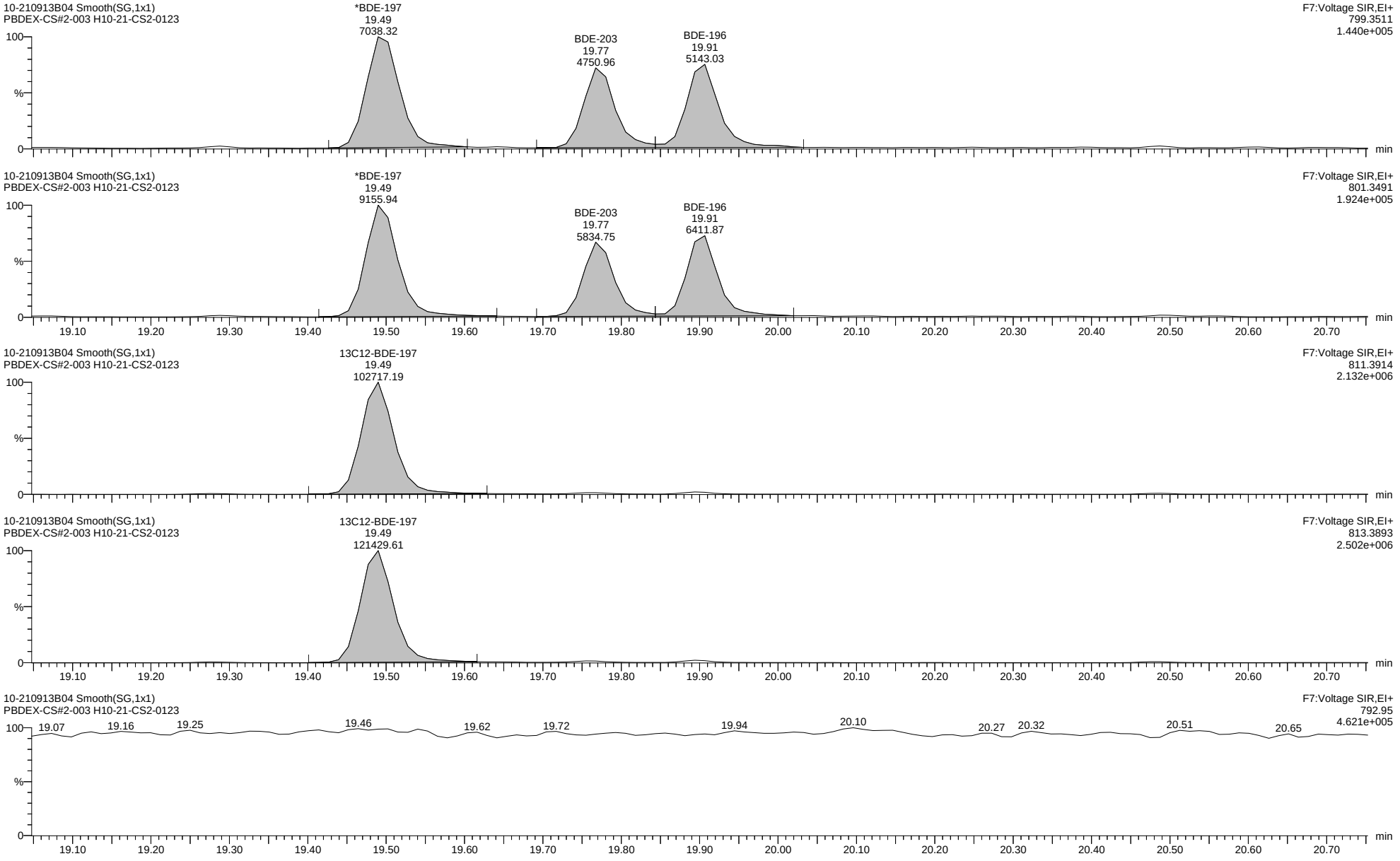

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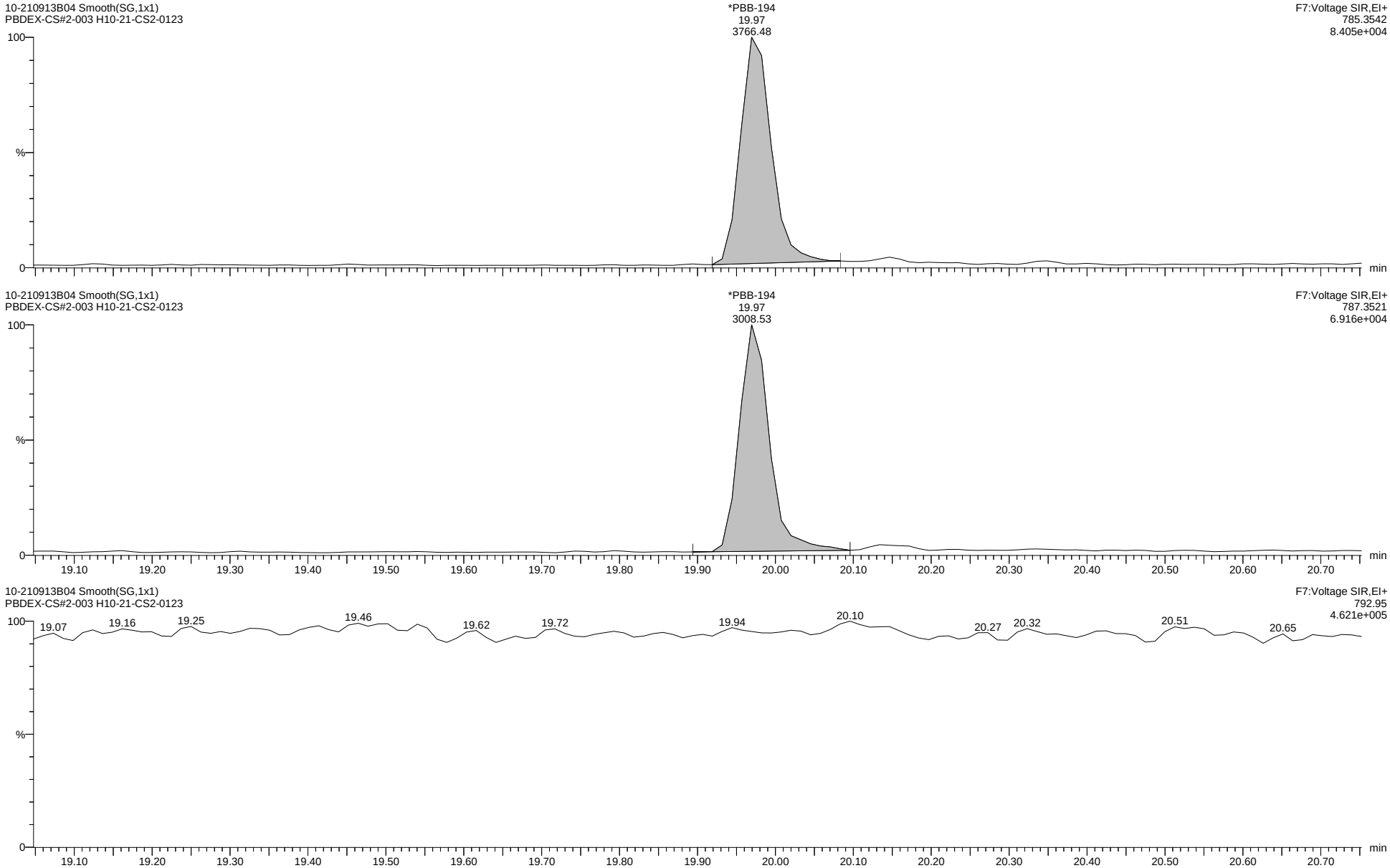

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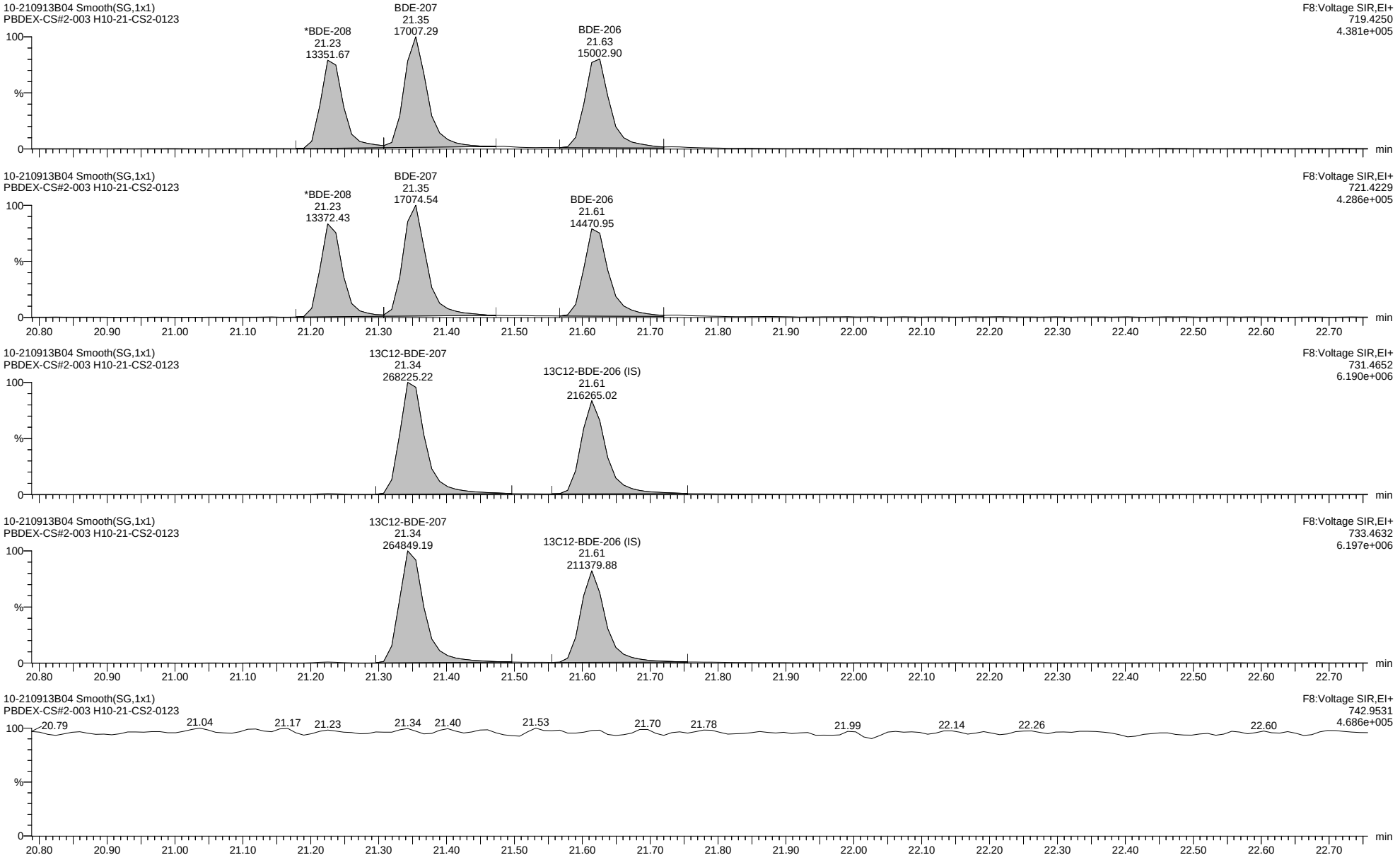

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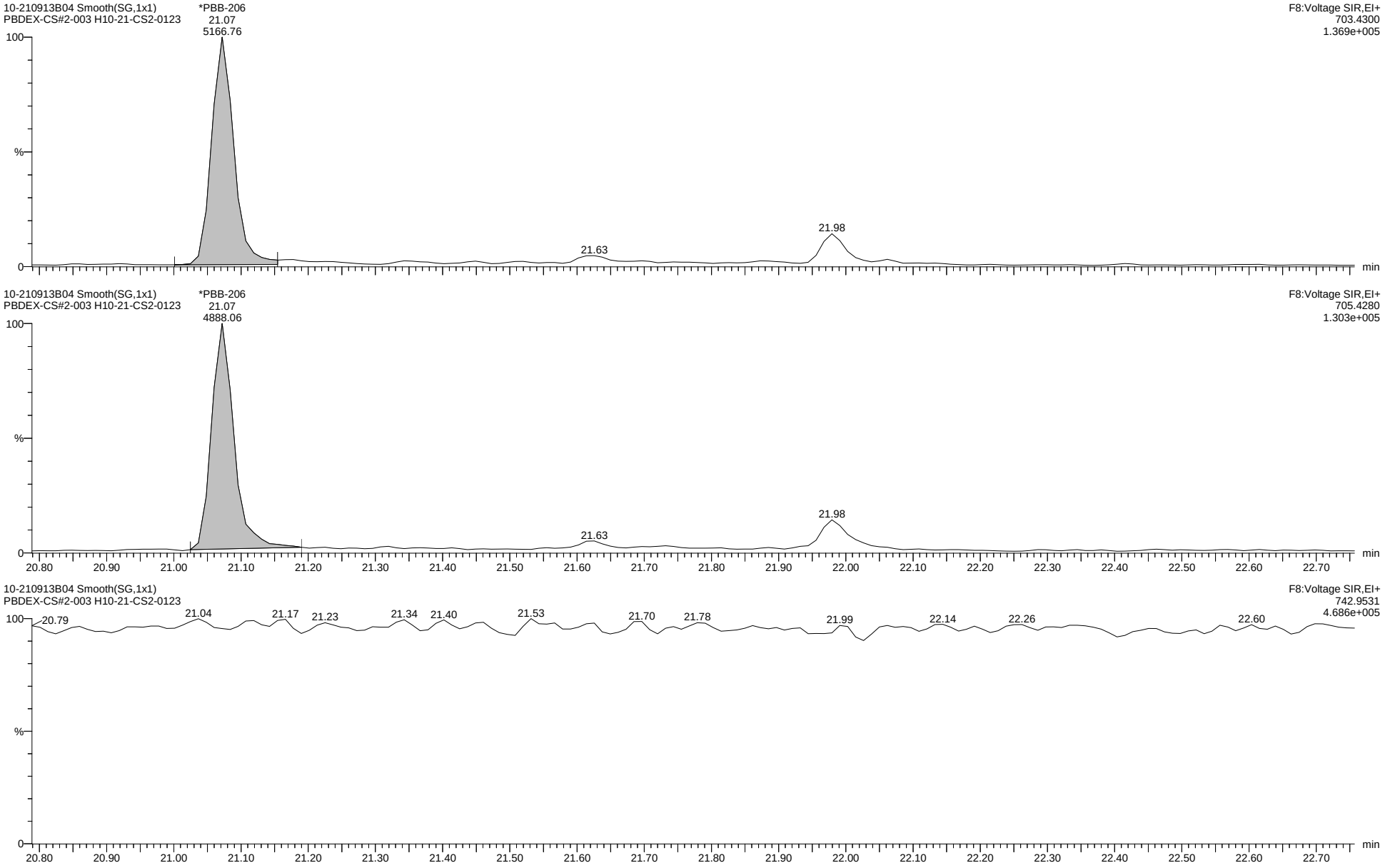

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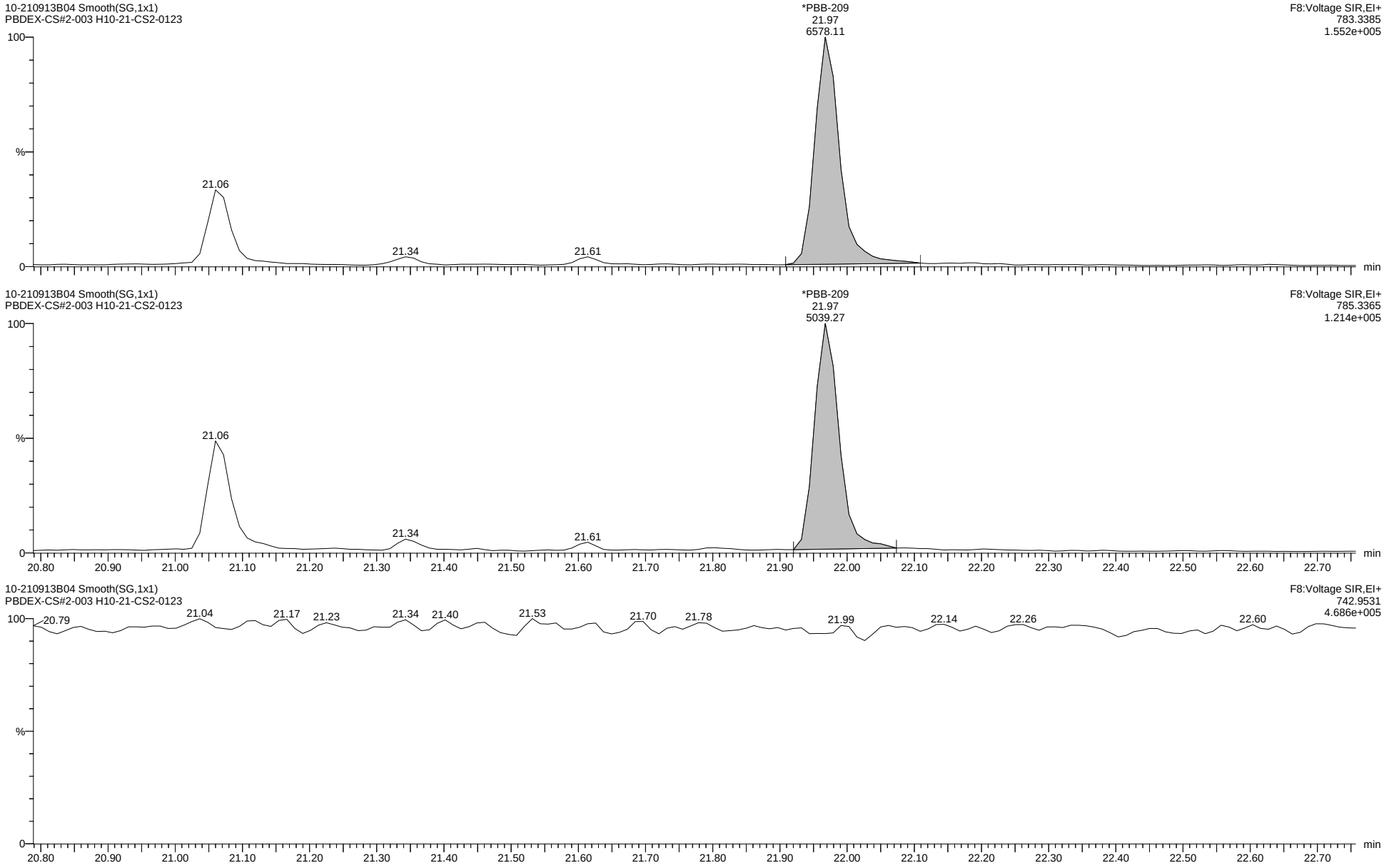

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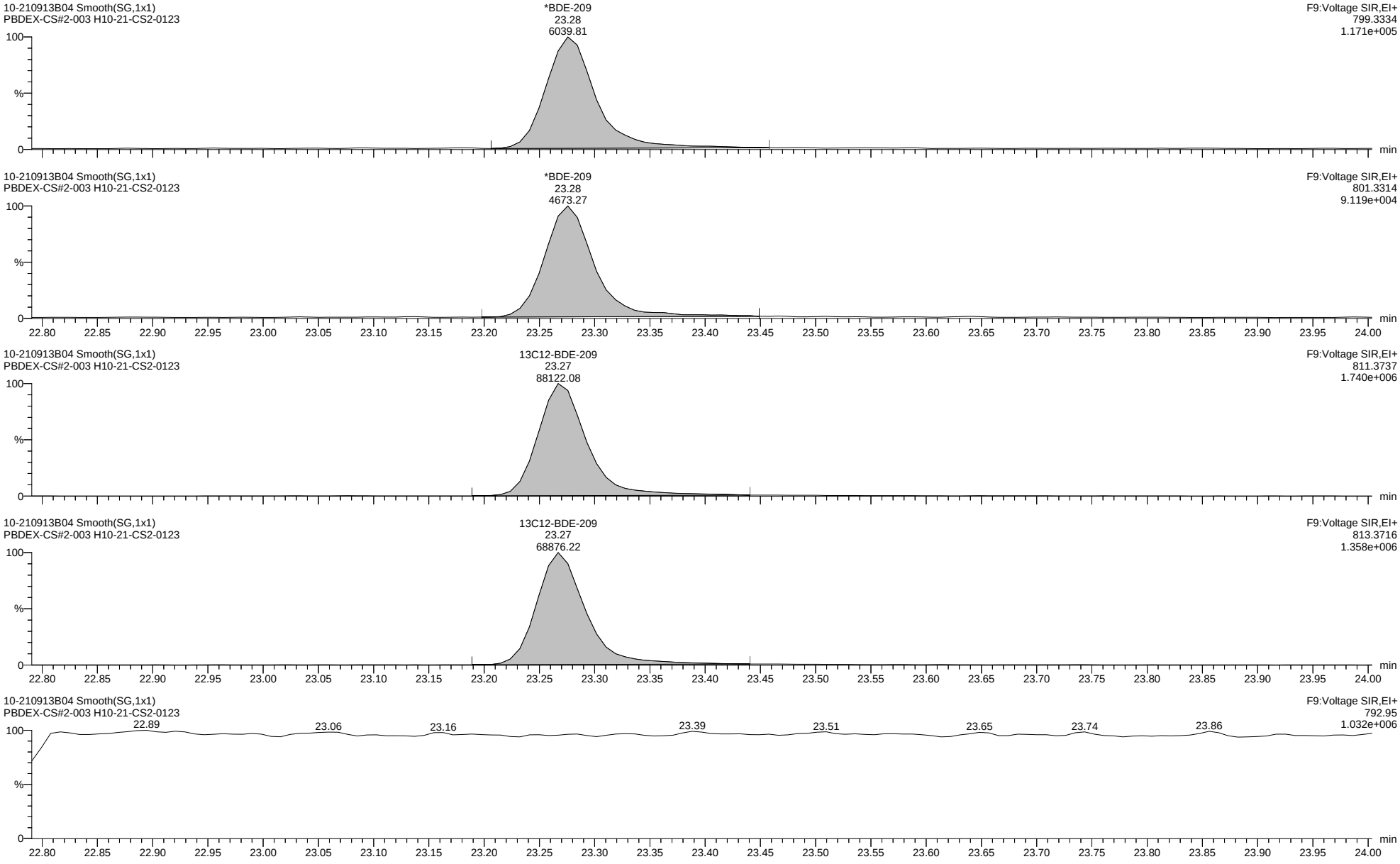

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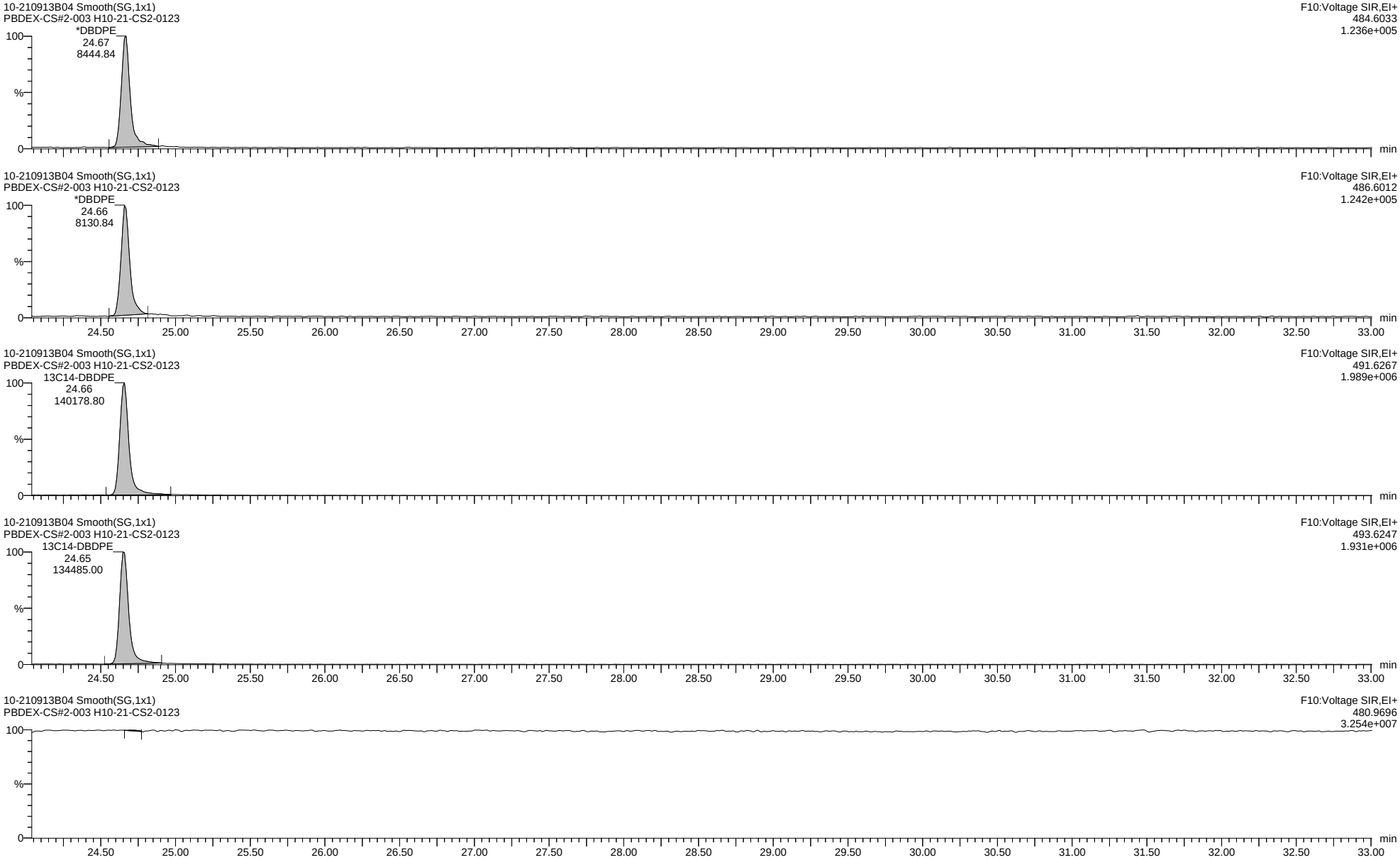

Quantify Sample Template Report **MassLynx MassLynx V4.1 SCN 901**

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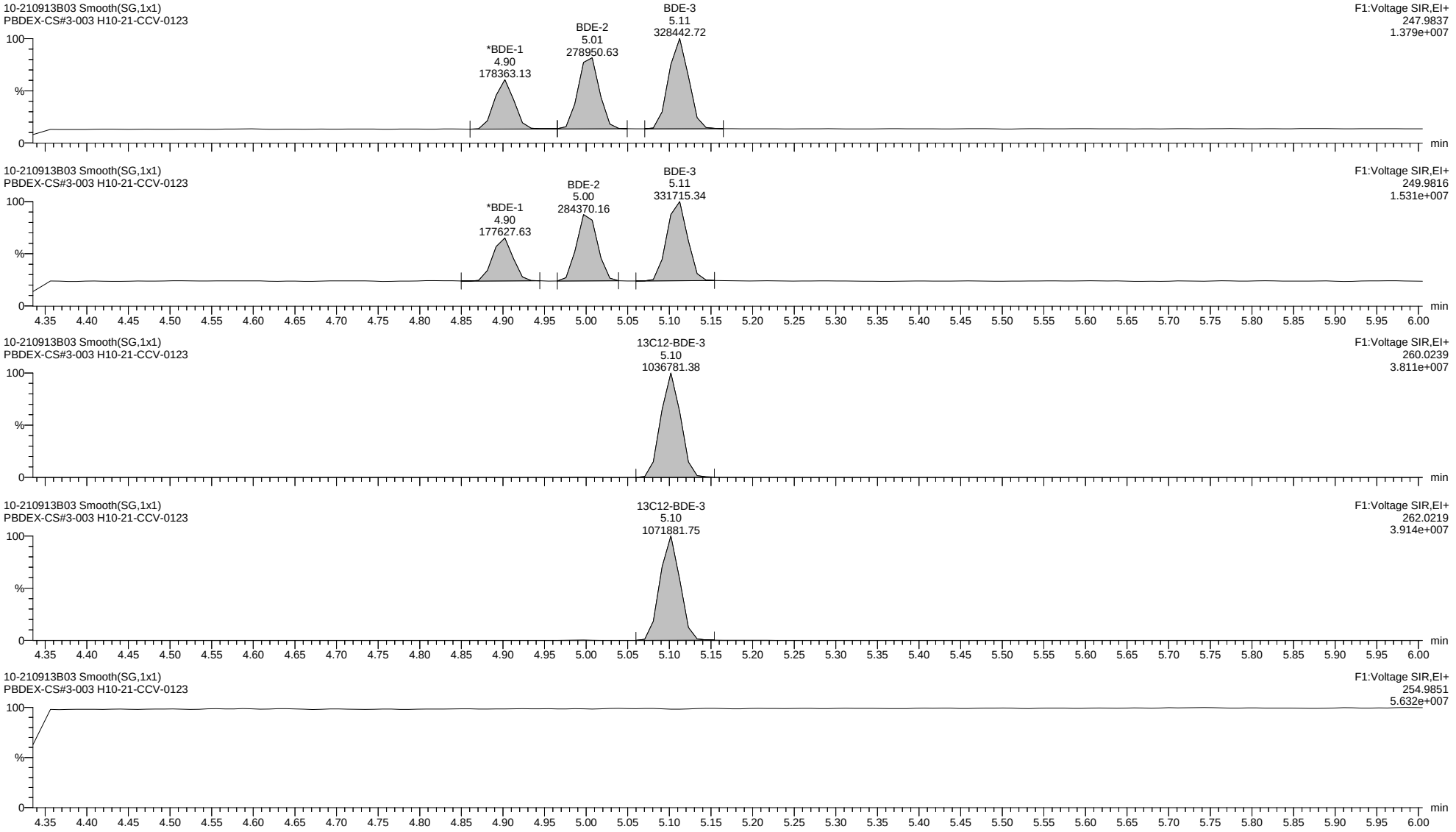

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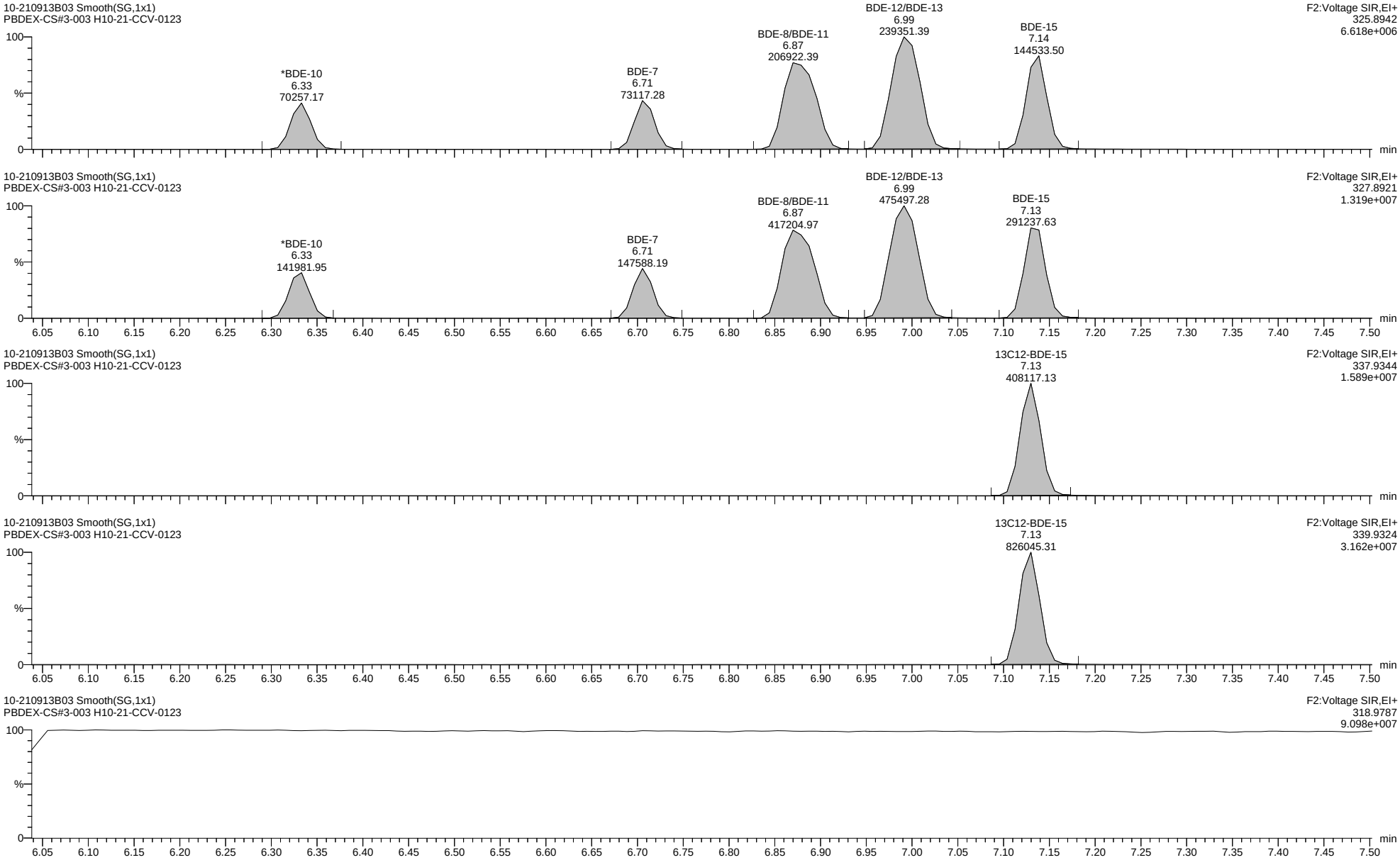

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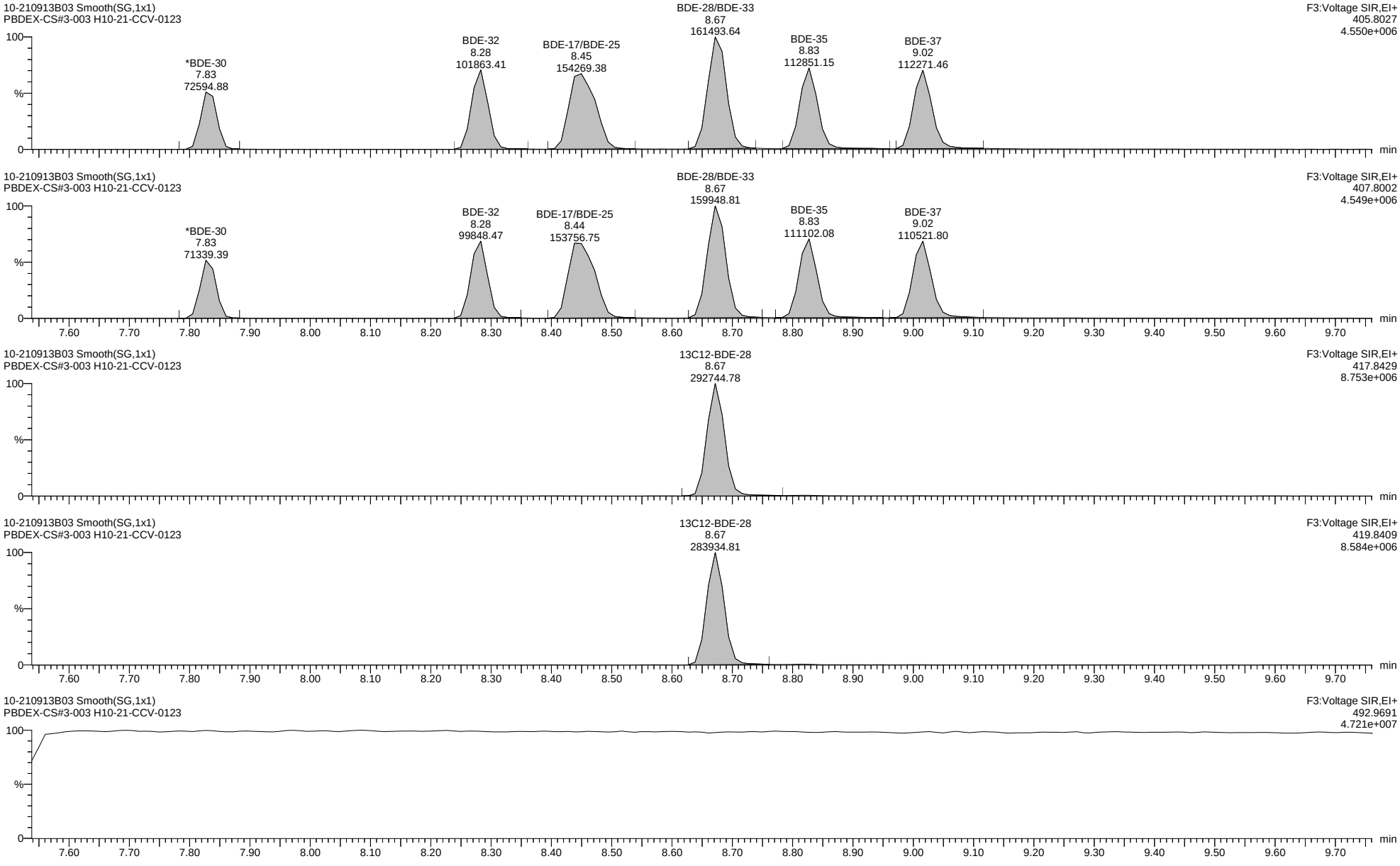

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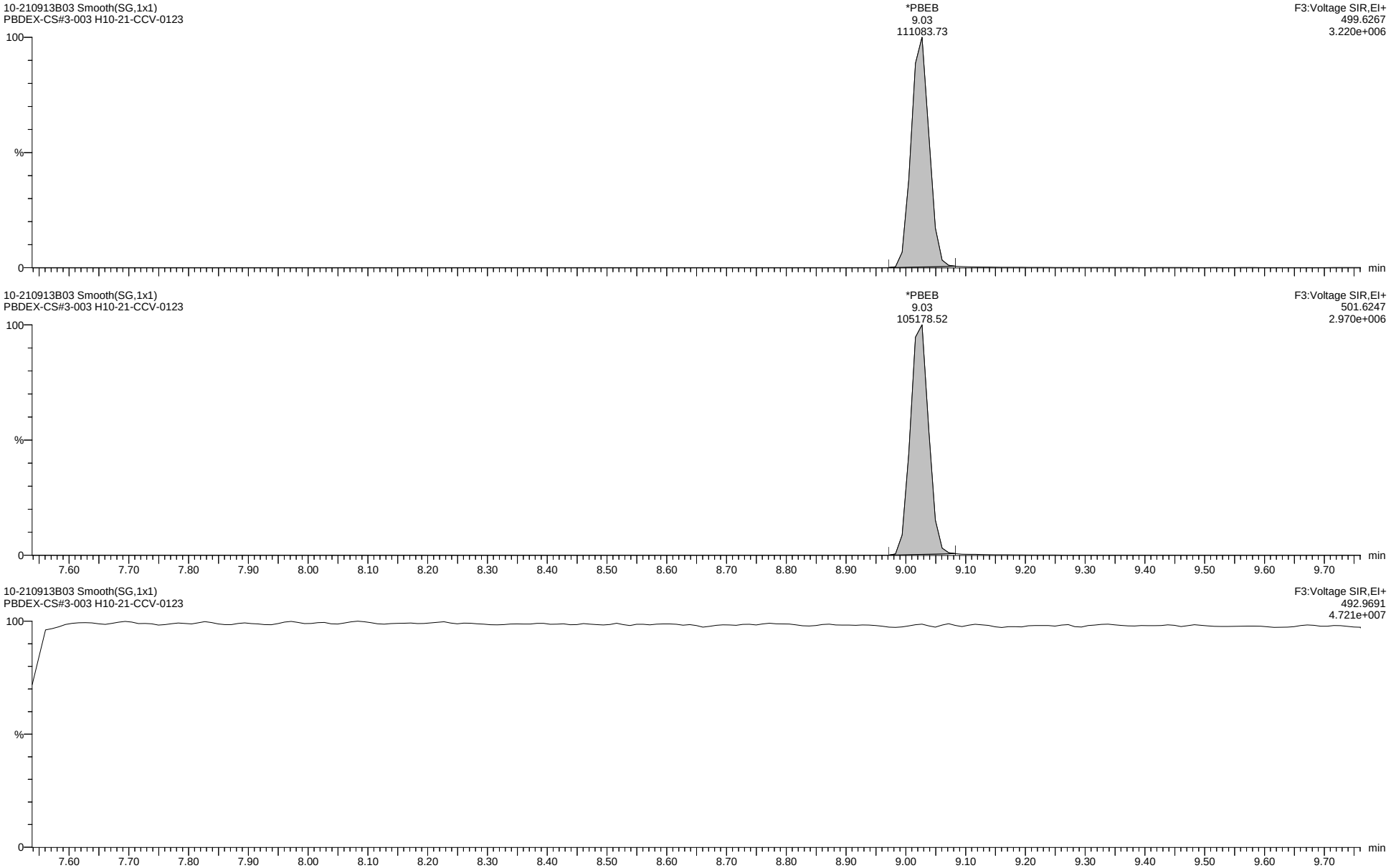

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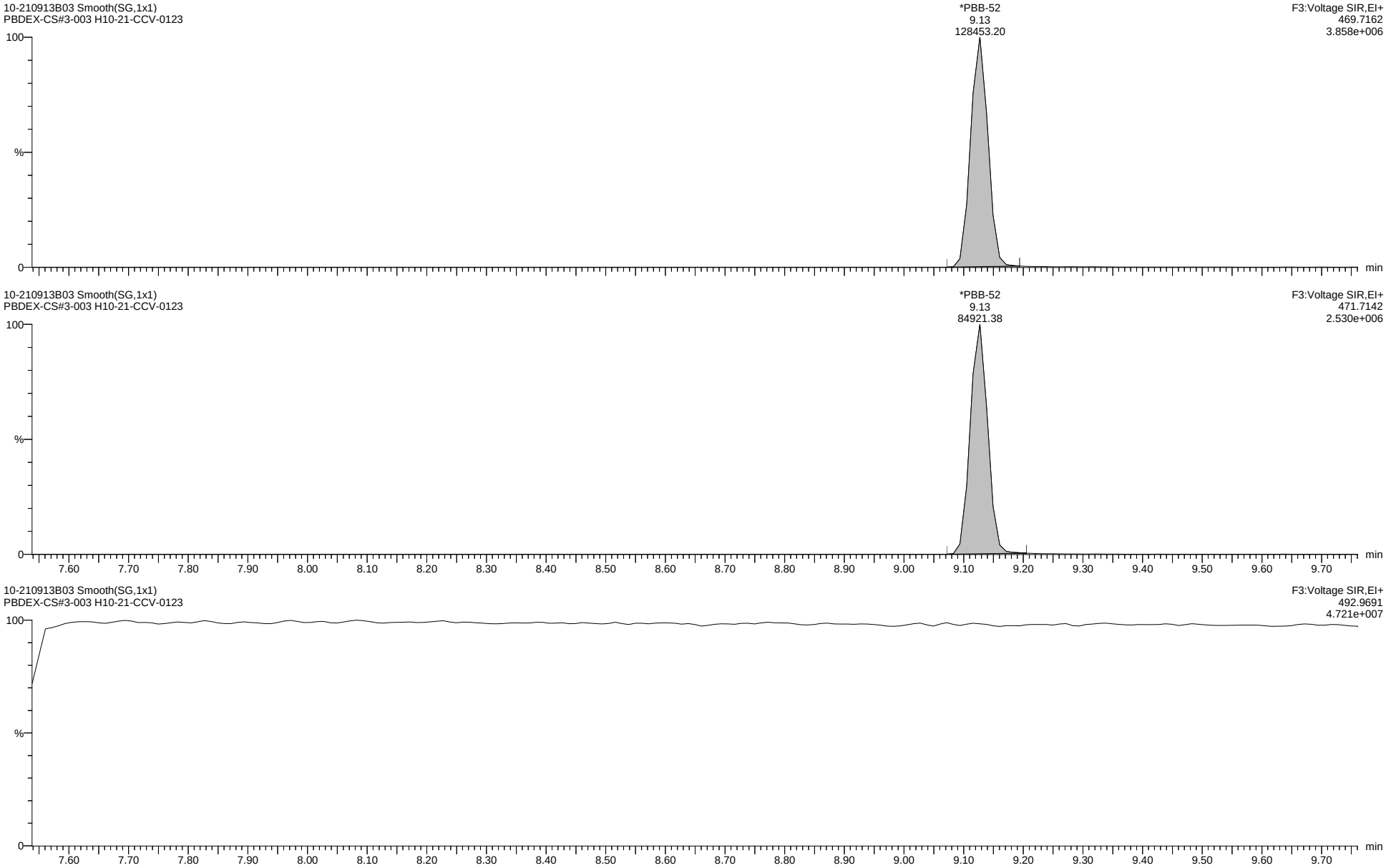

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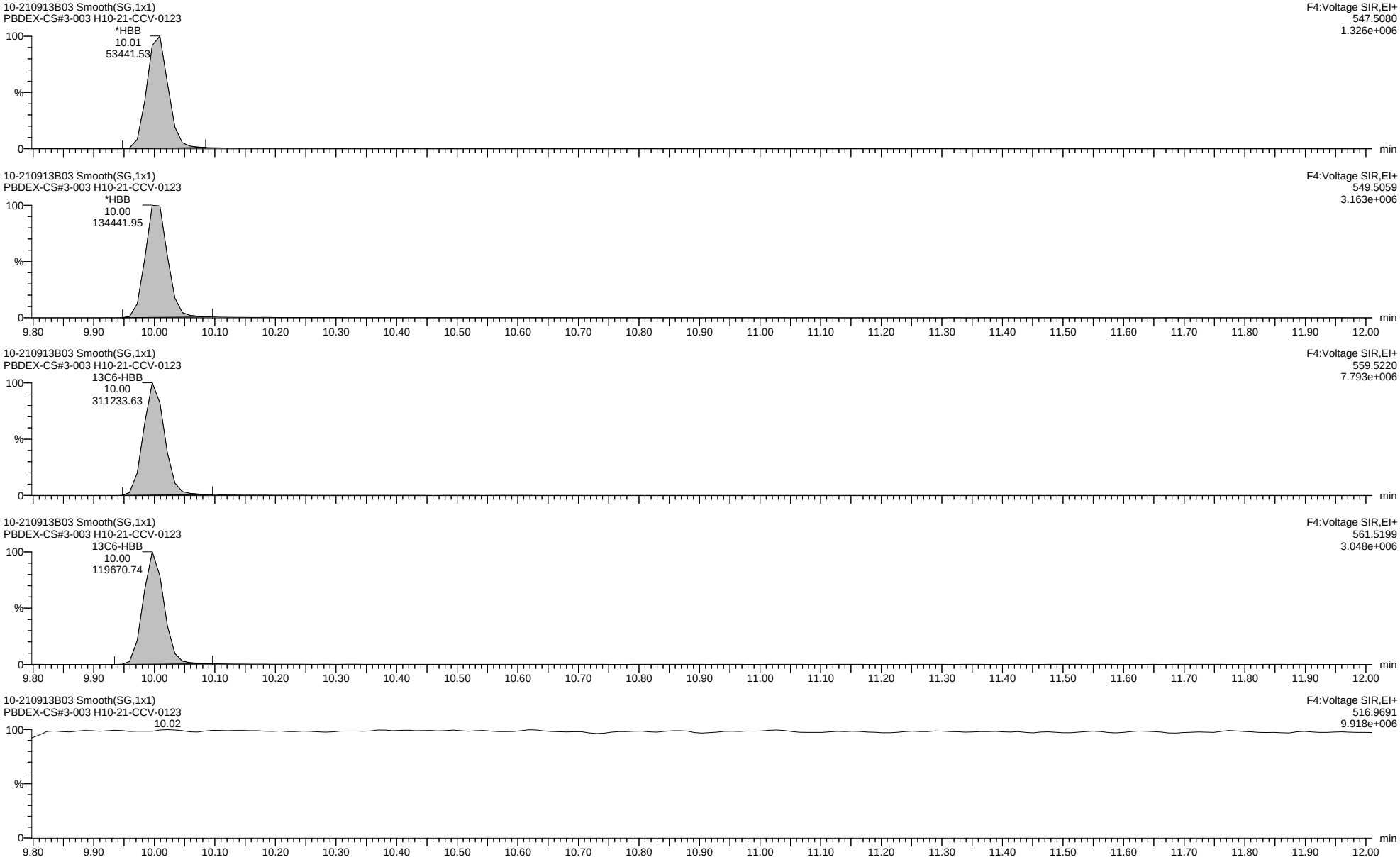

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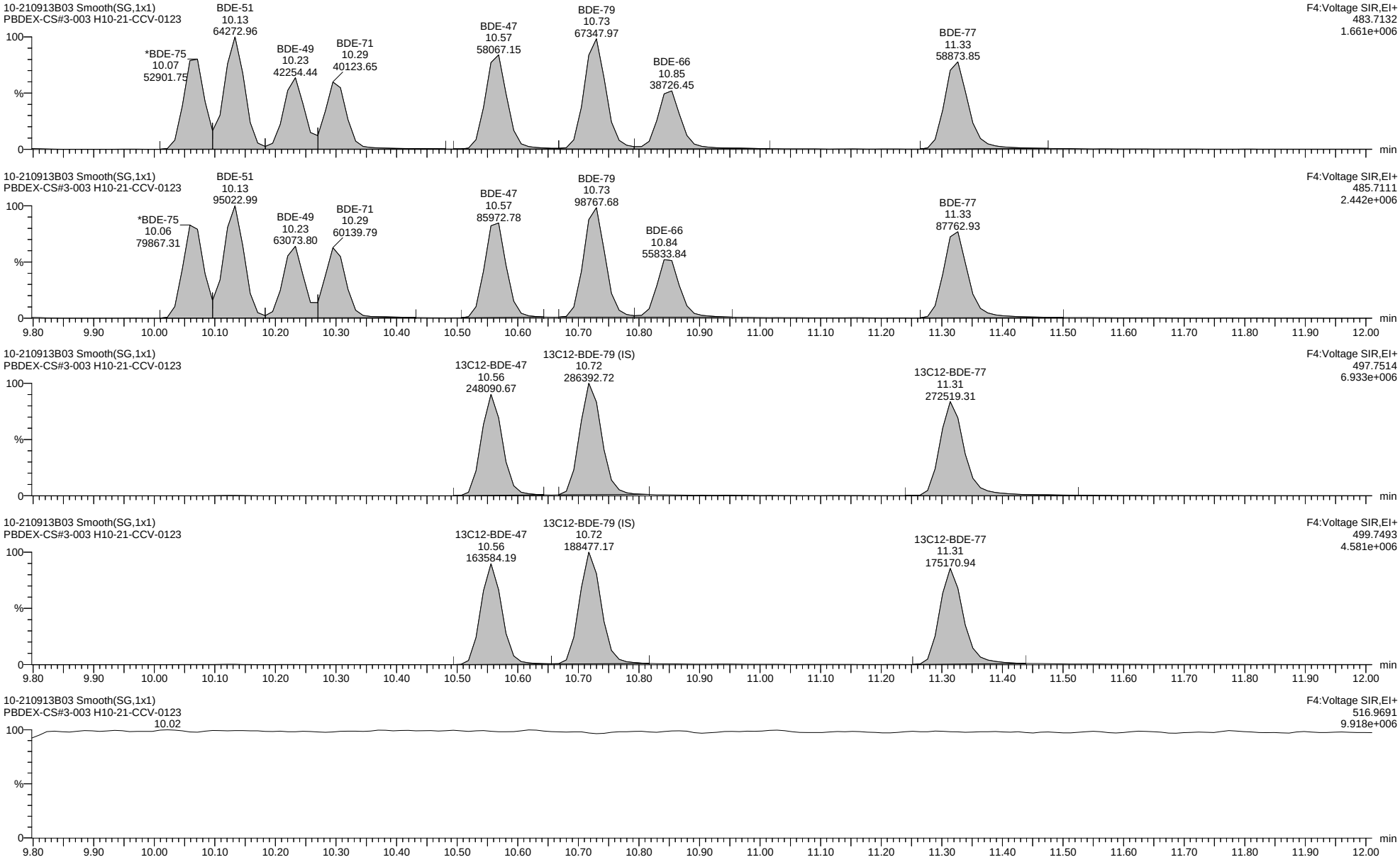

Quantify Sample Template Report **MassLynx MassLynx V4.1 SCN 901**

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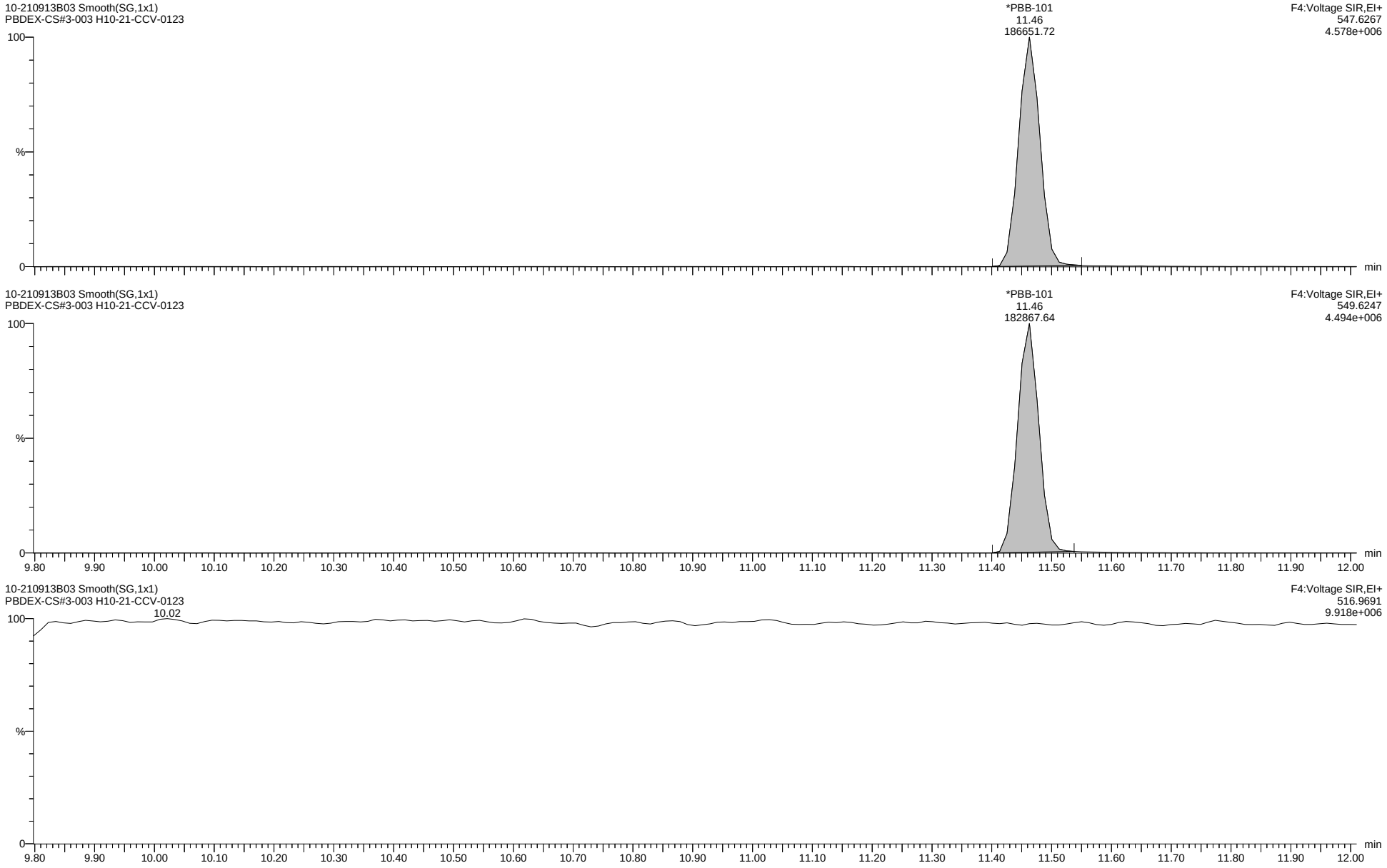

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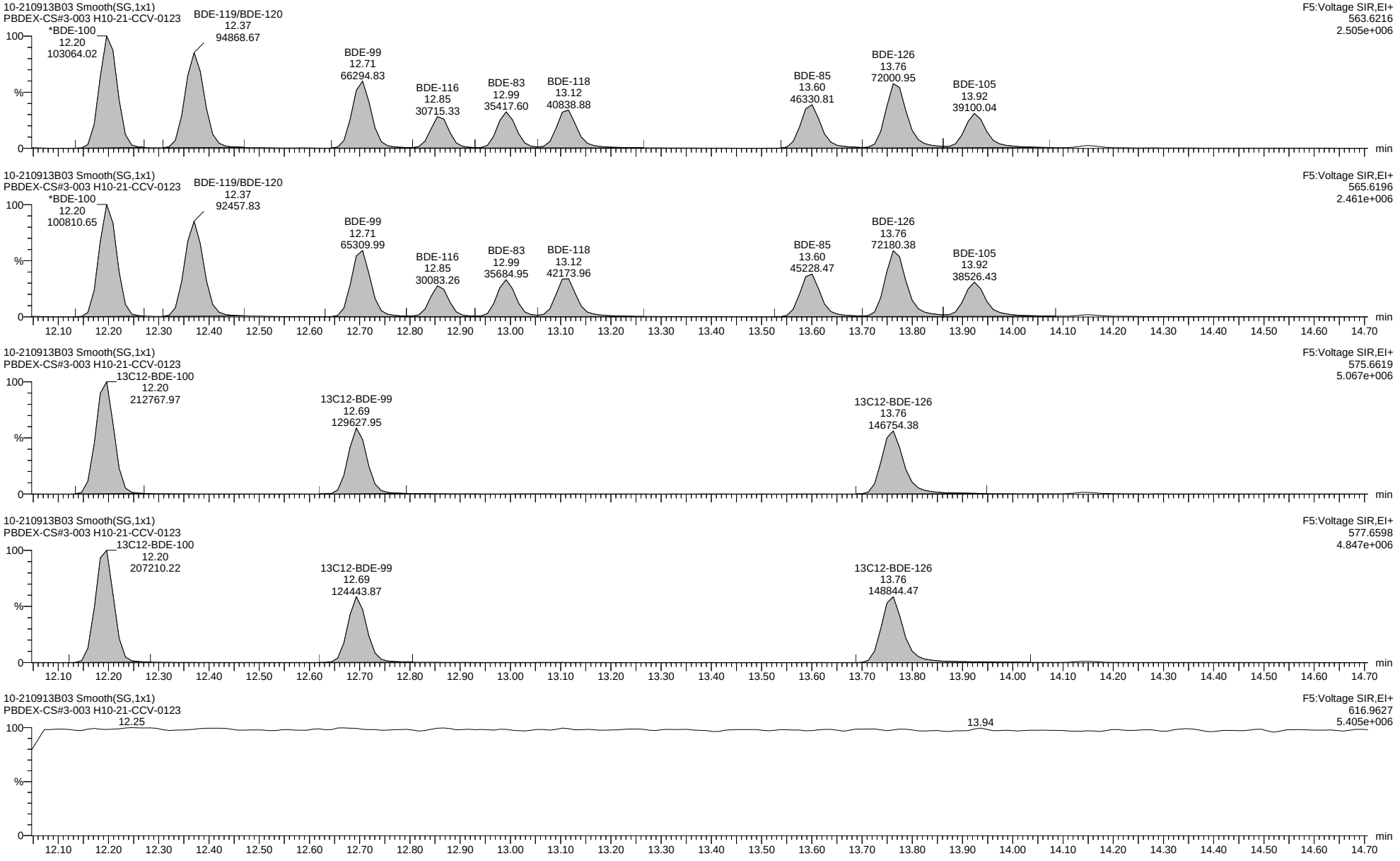

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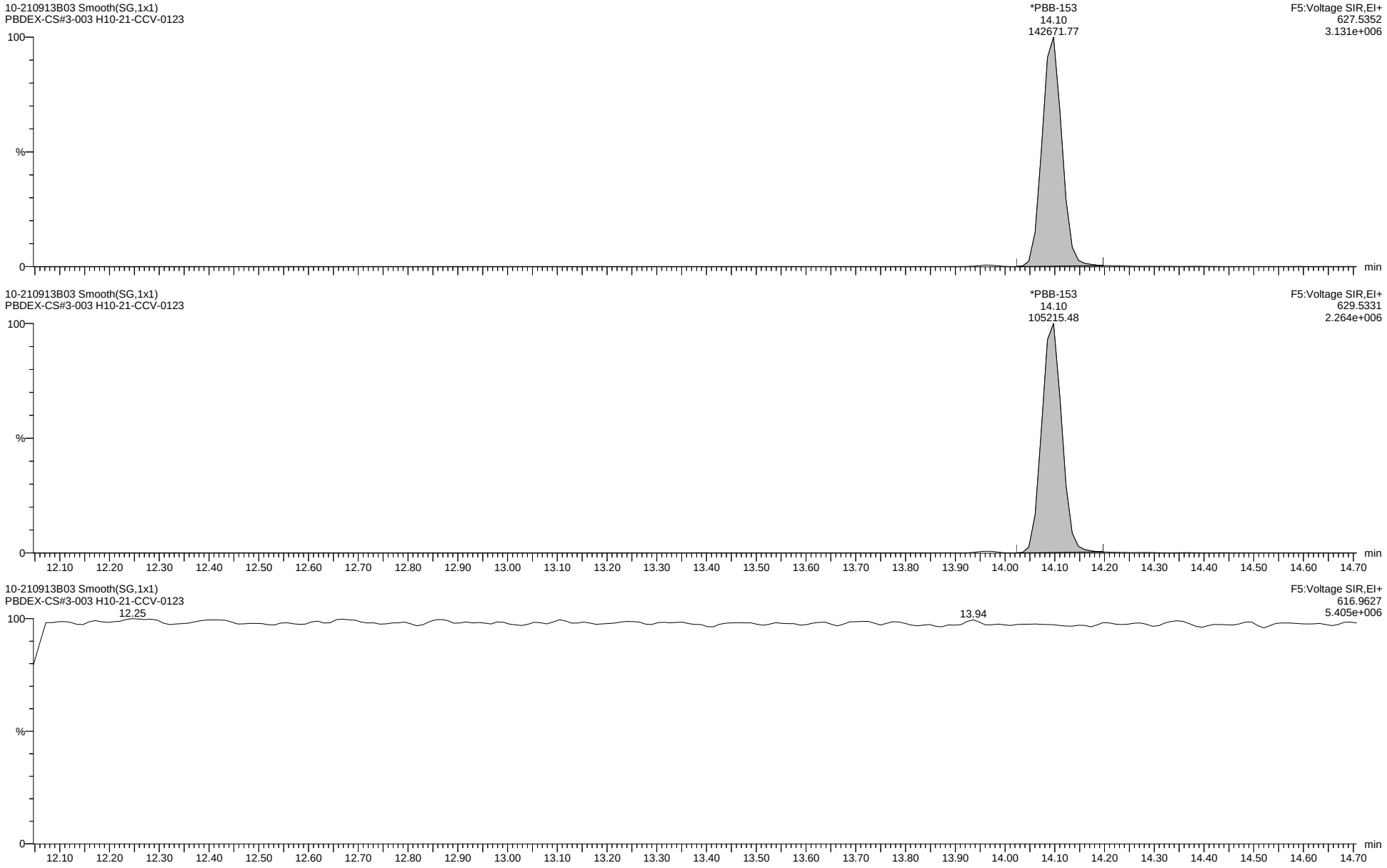

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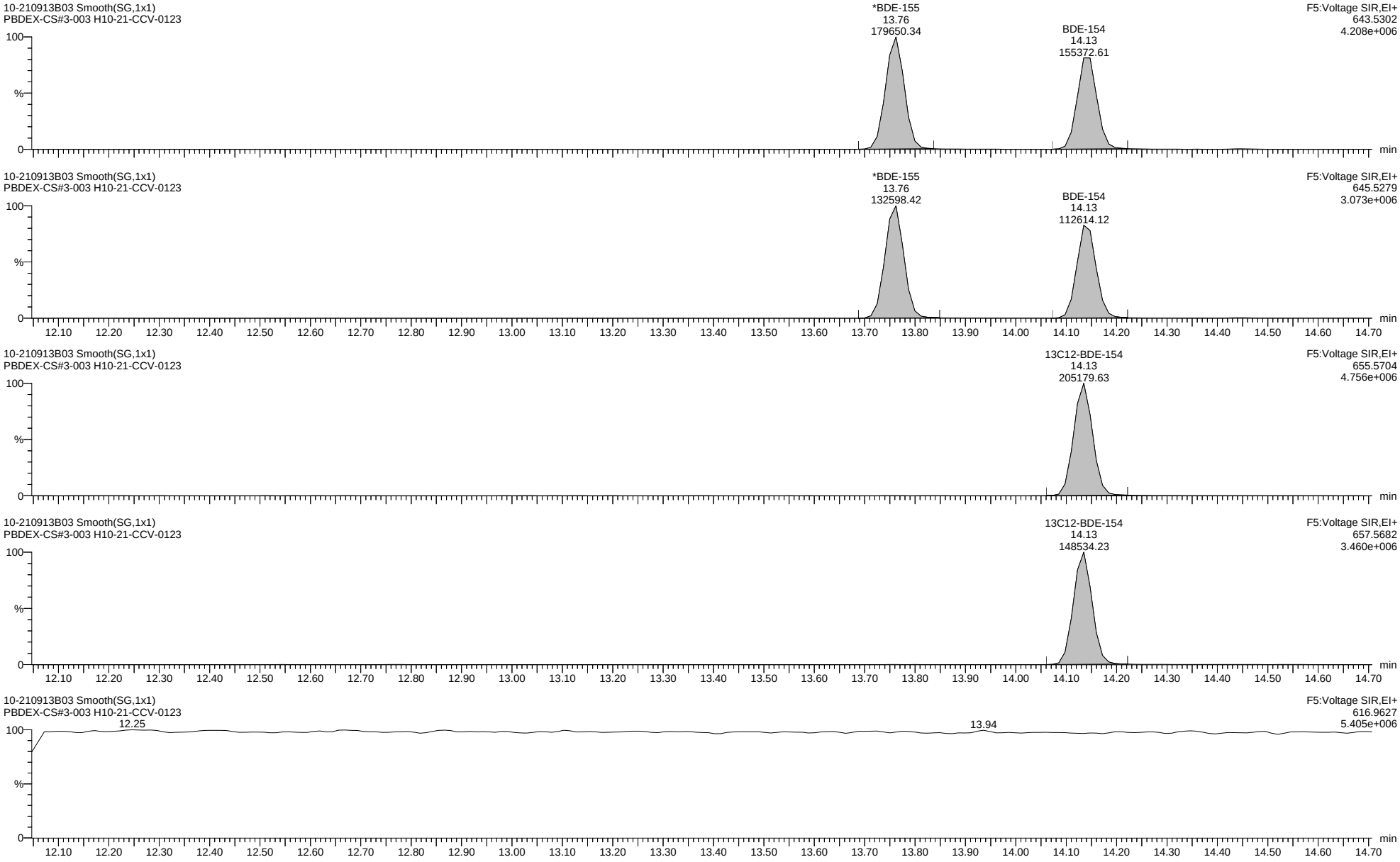

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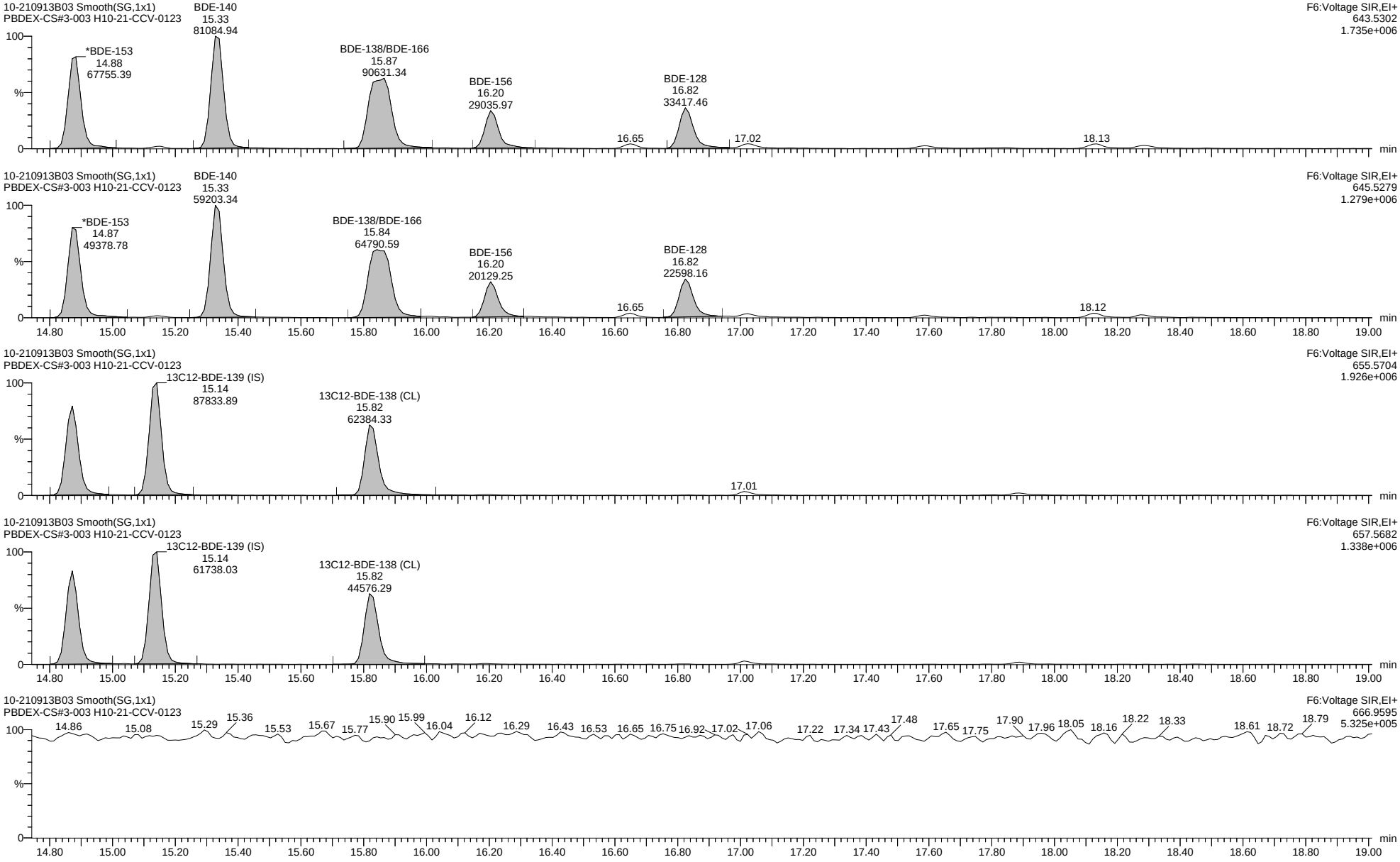

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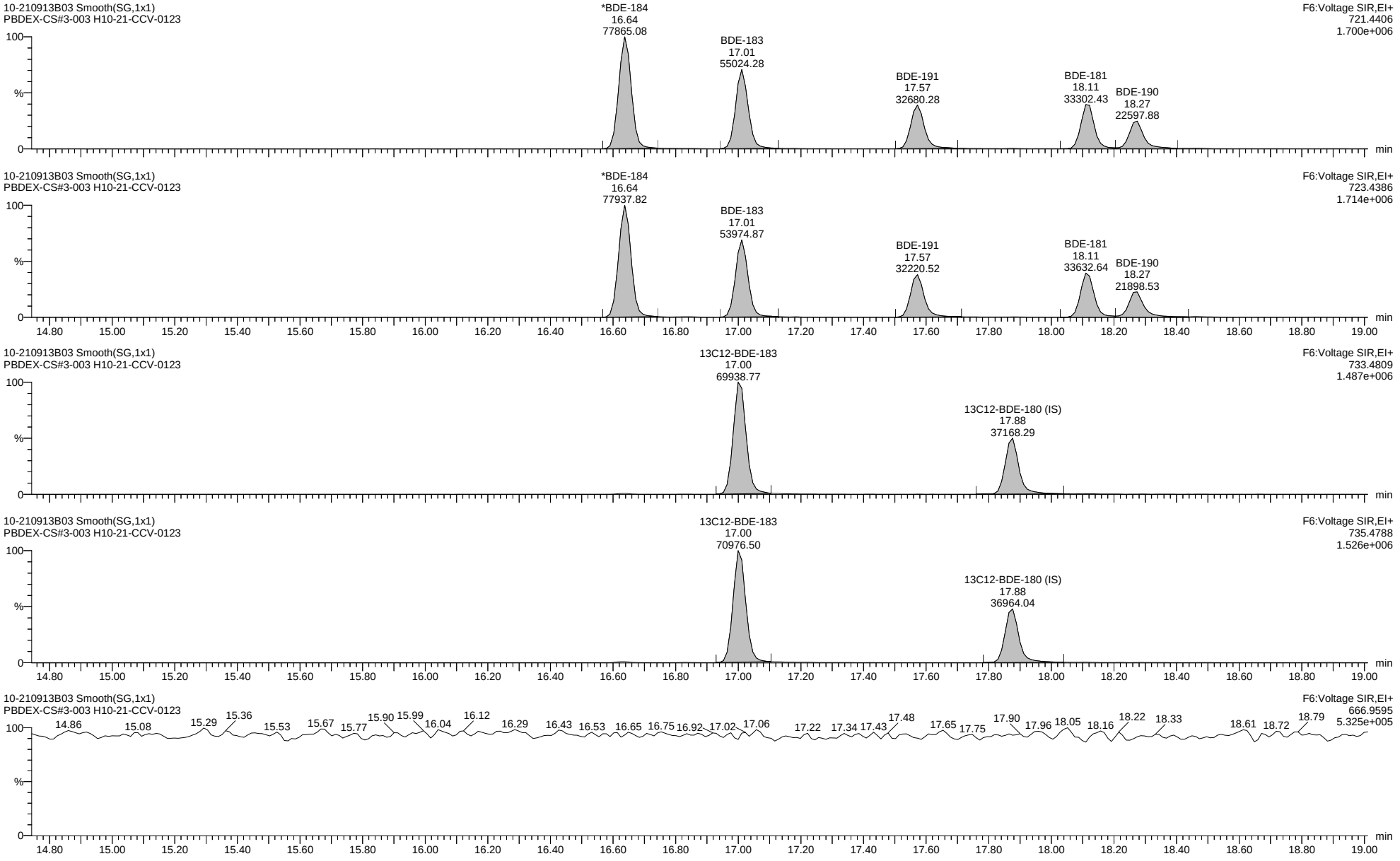

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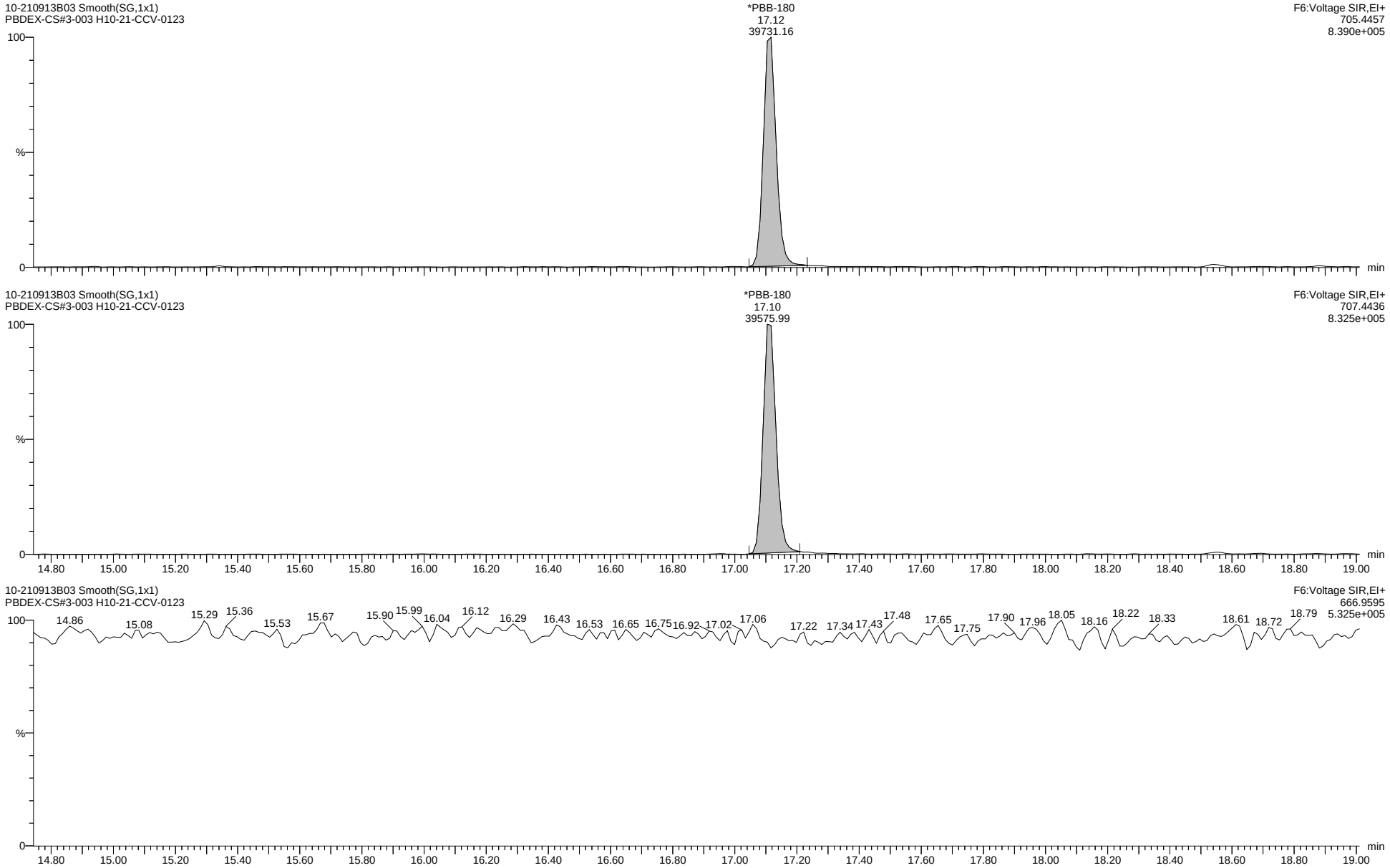

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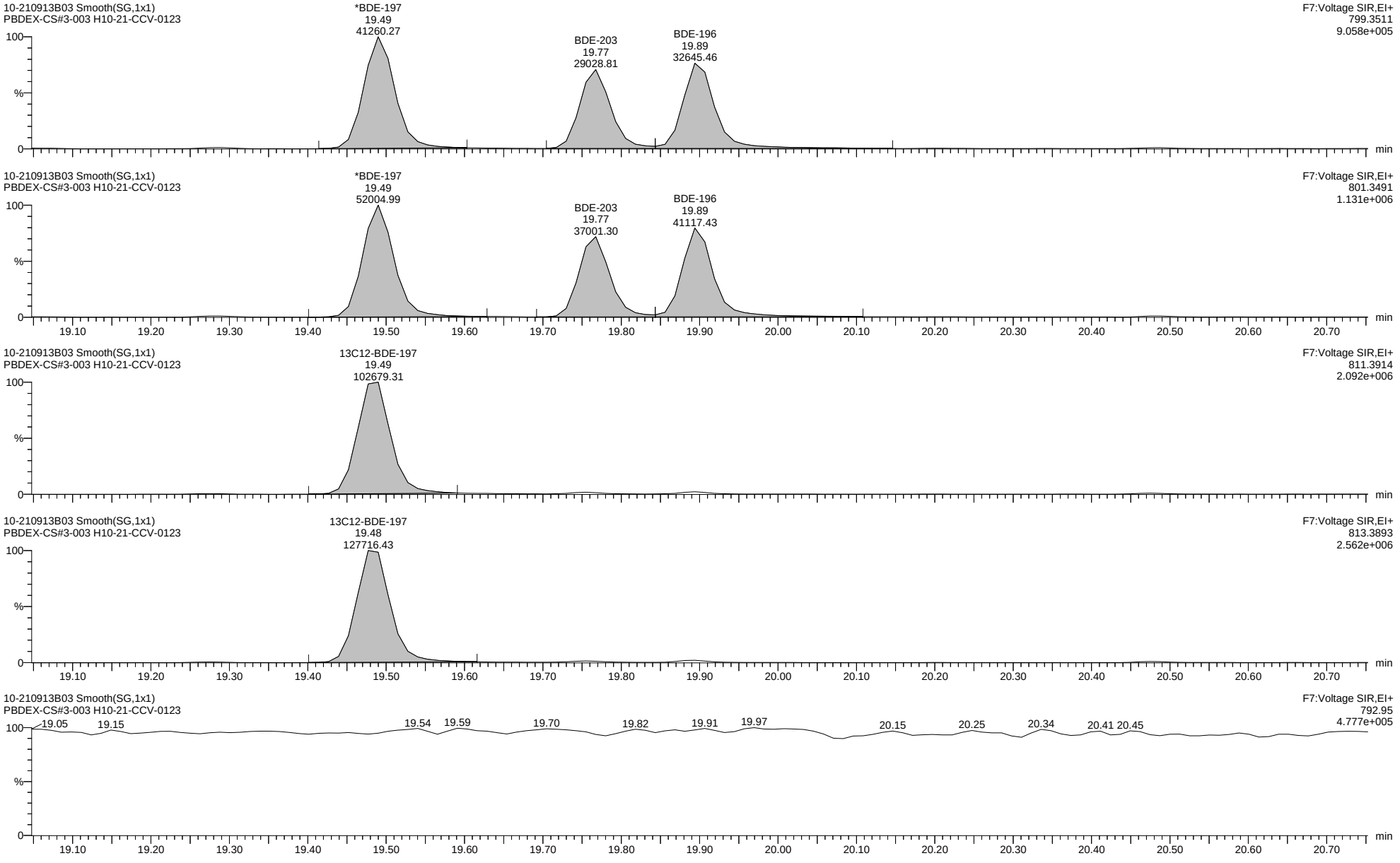

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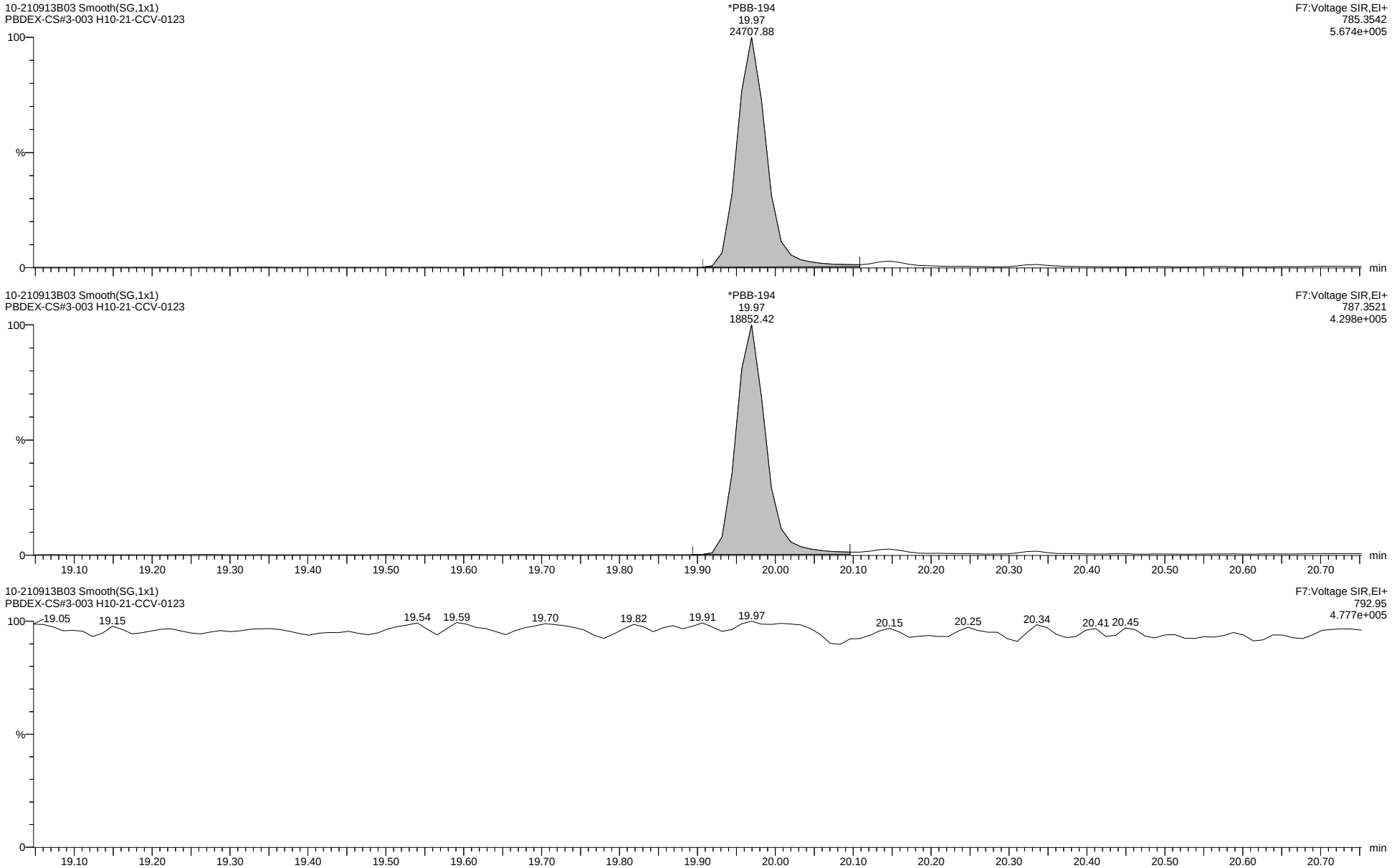

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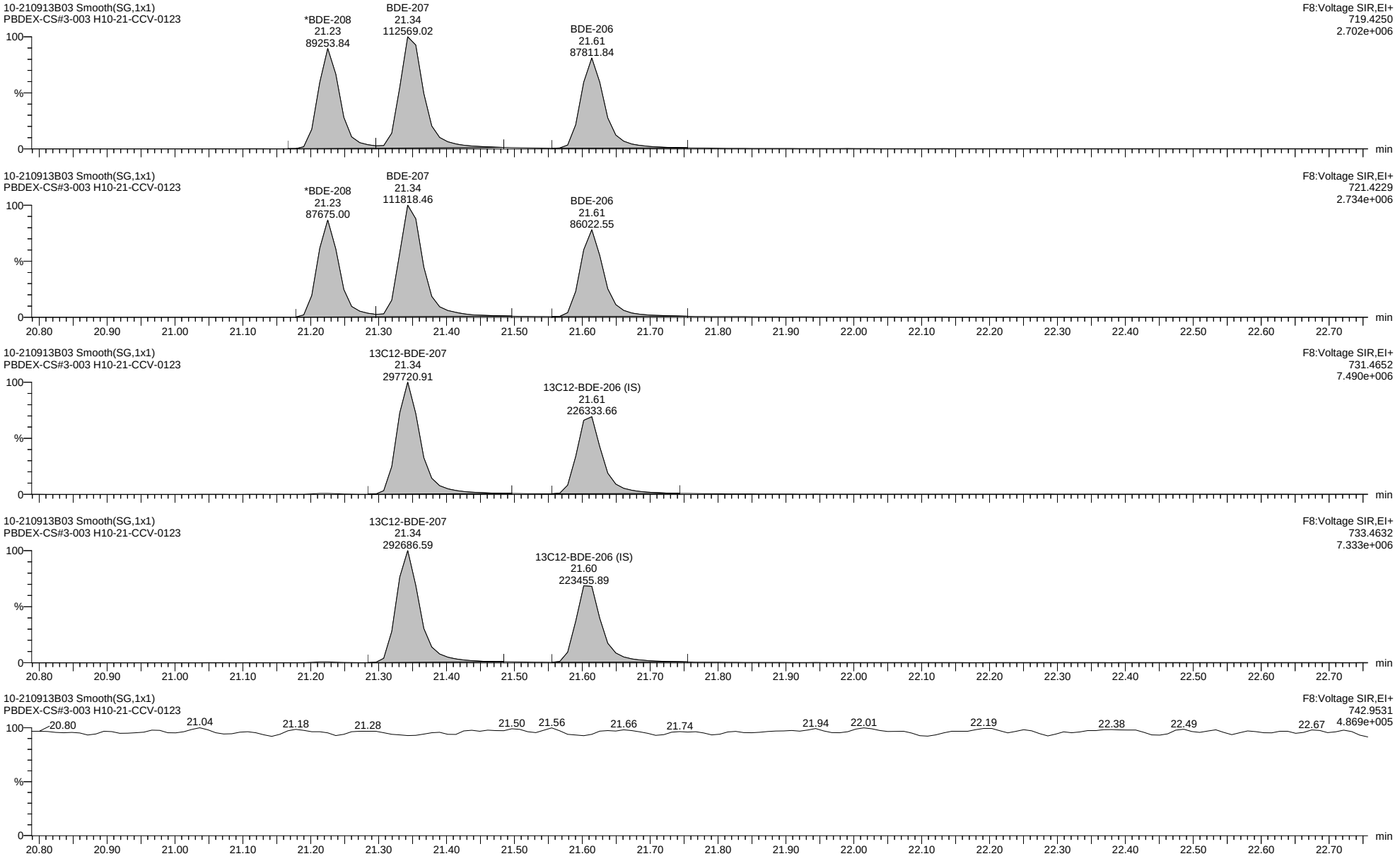

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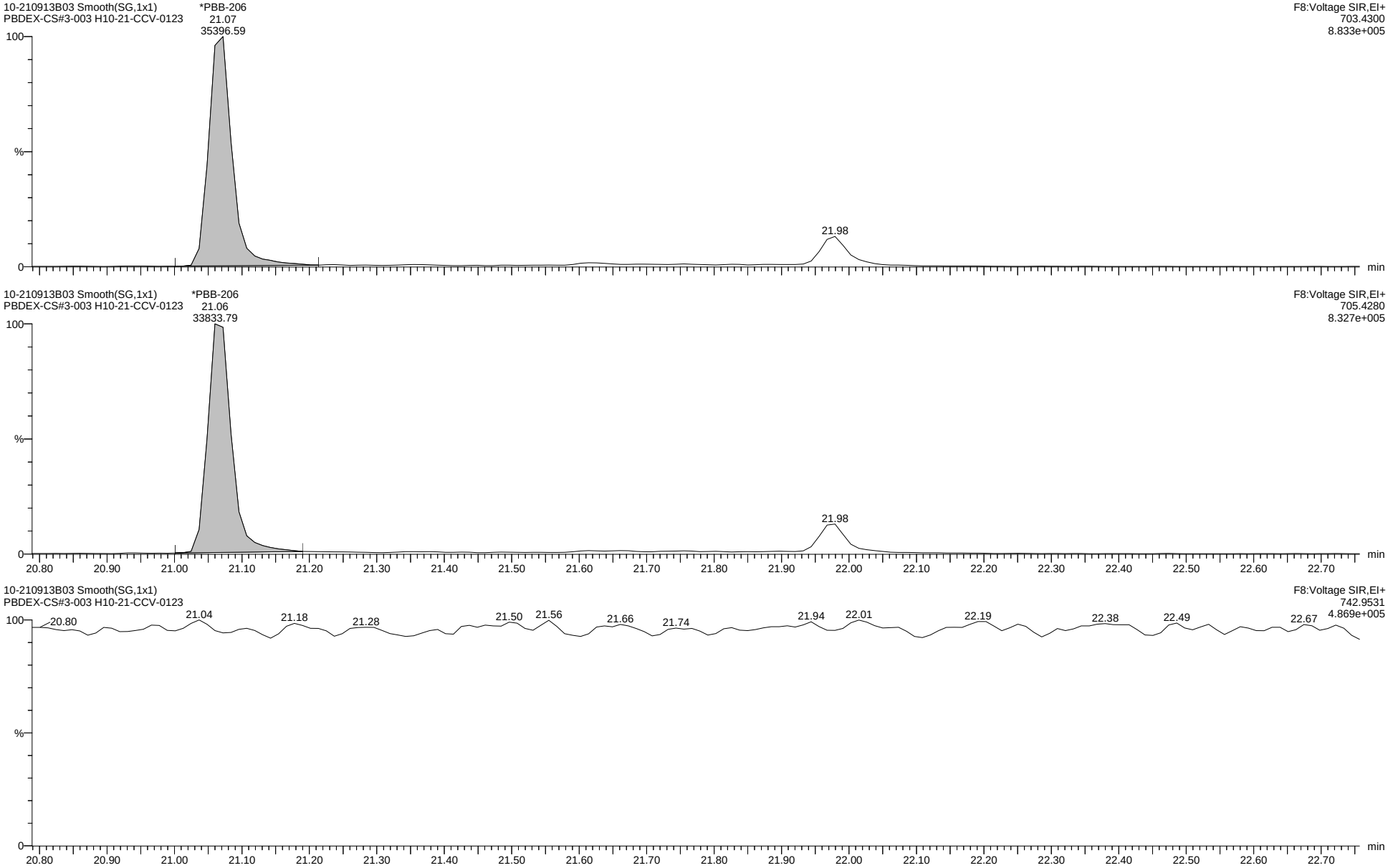

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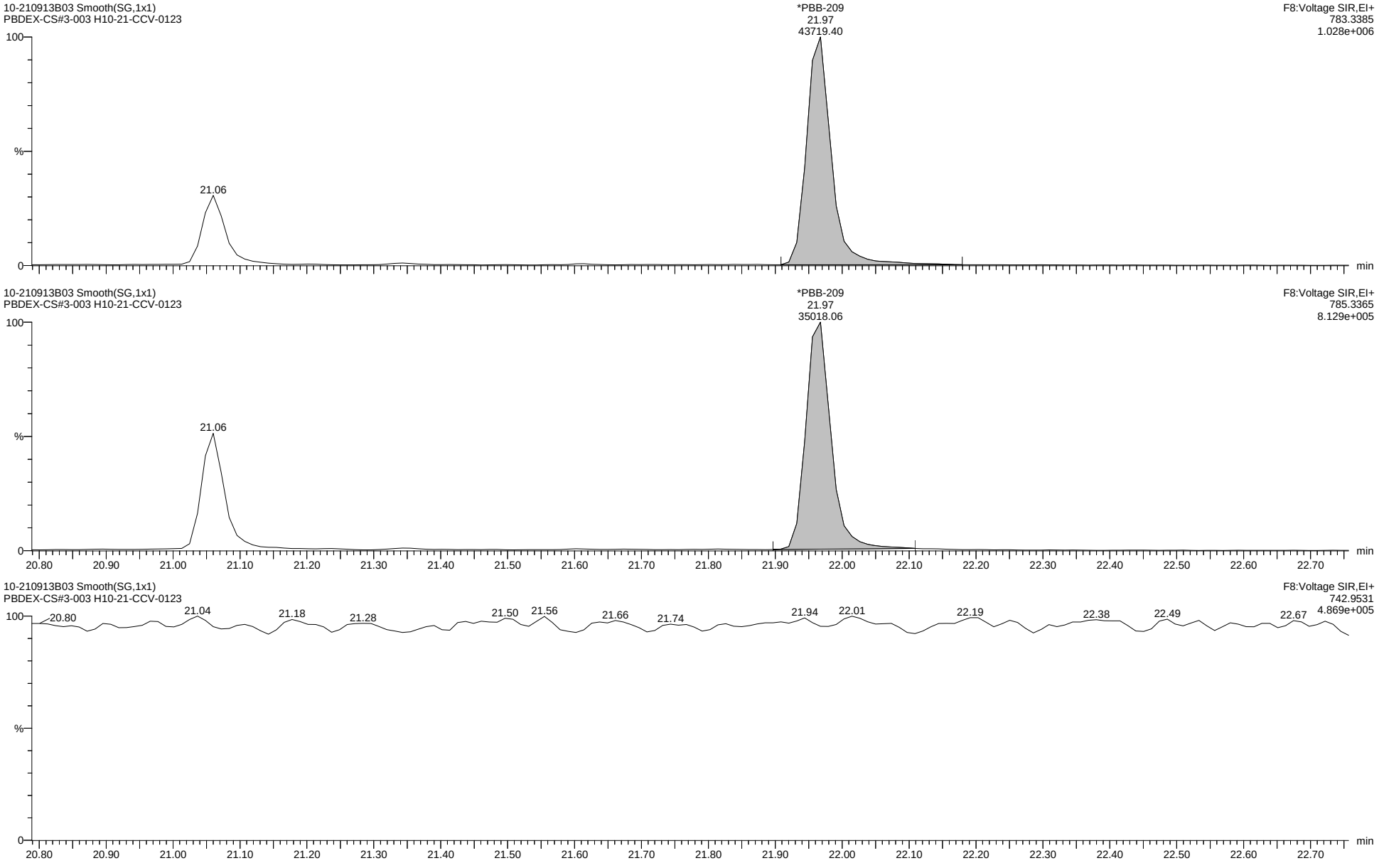

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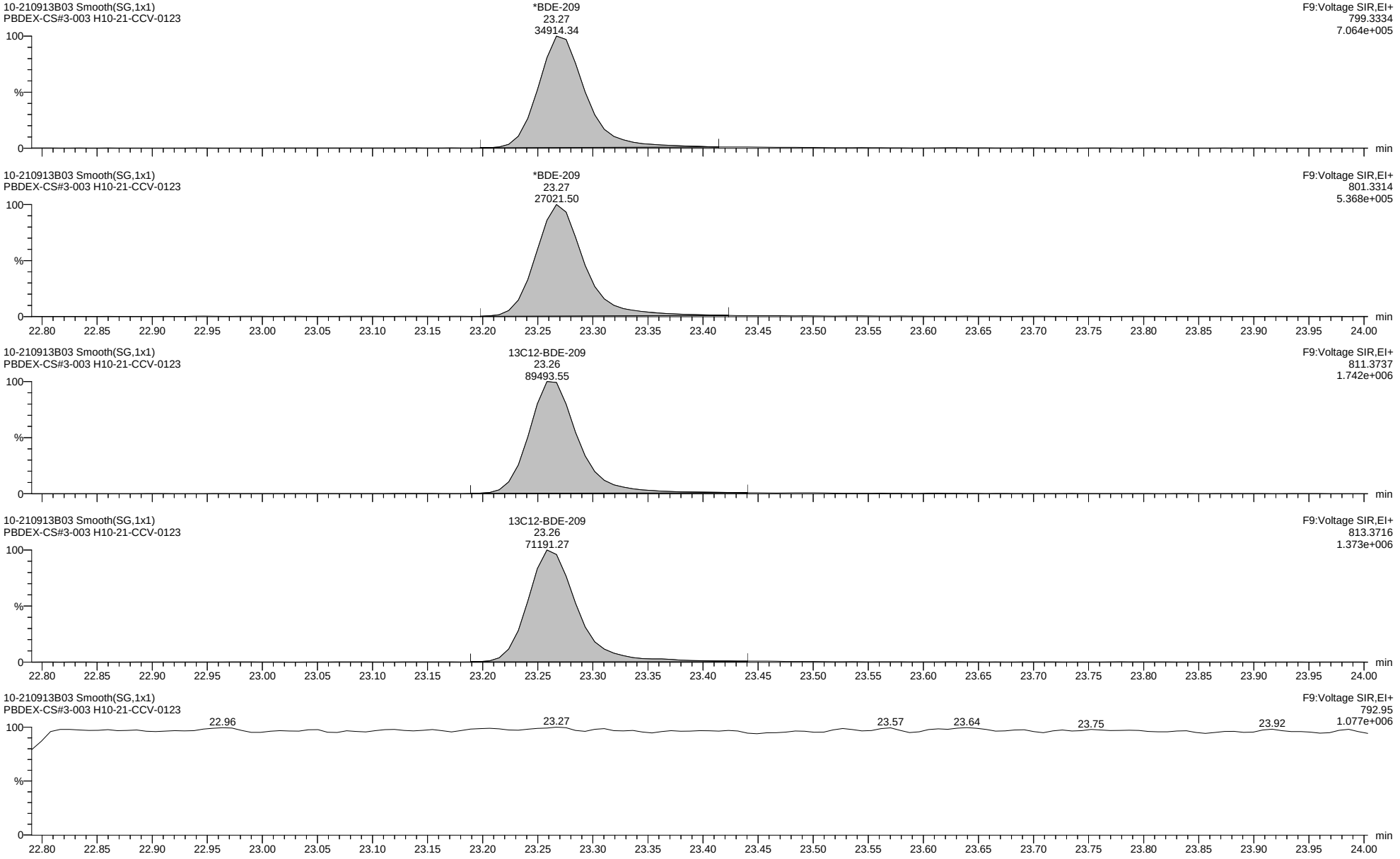

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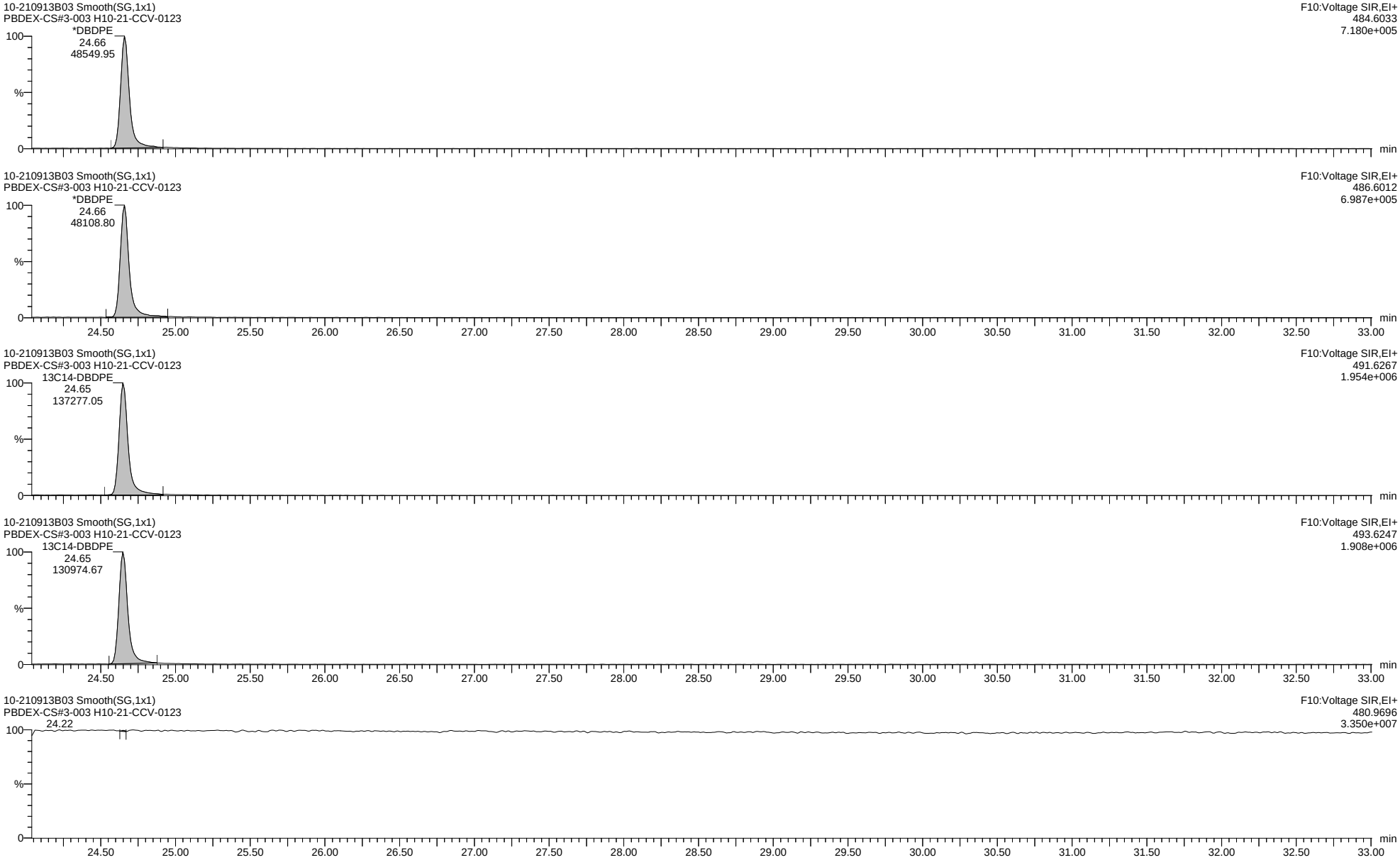

Quantify Sample Template Report **MassLynx MassLynx V4.1 SCN 901**

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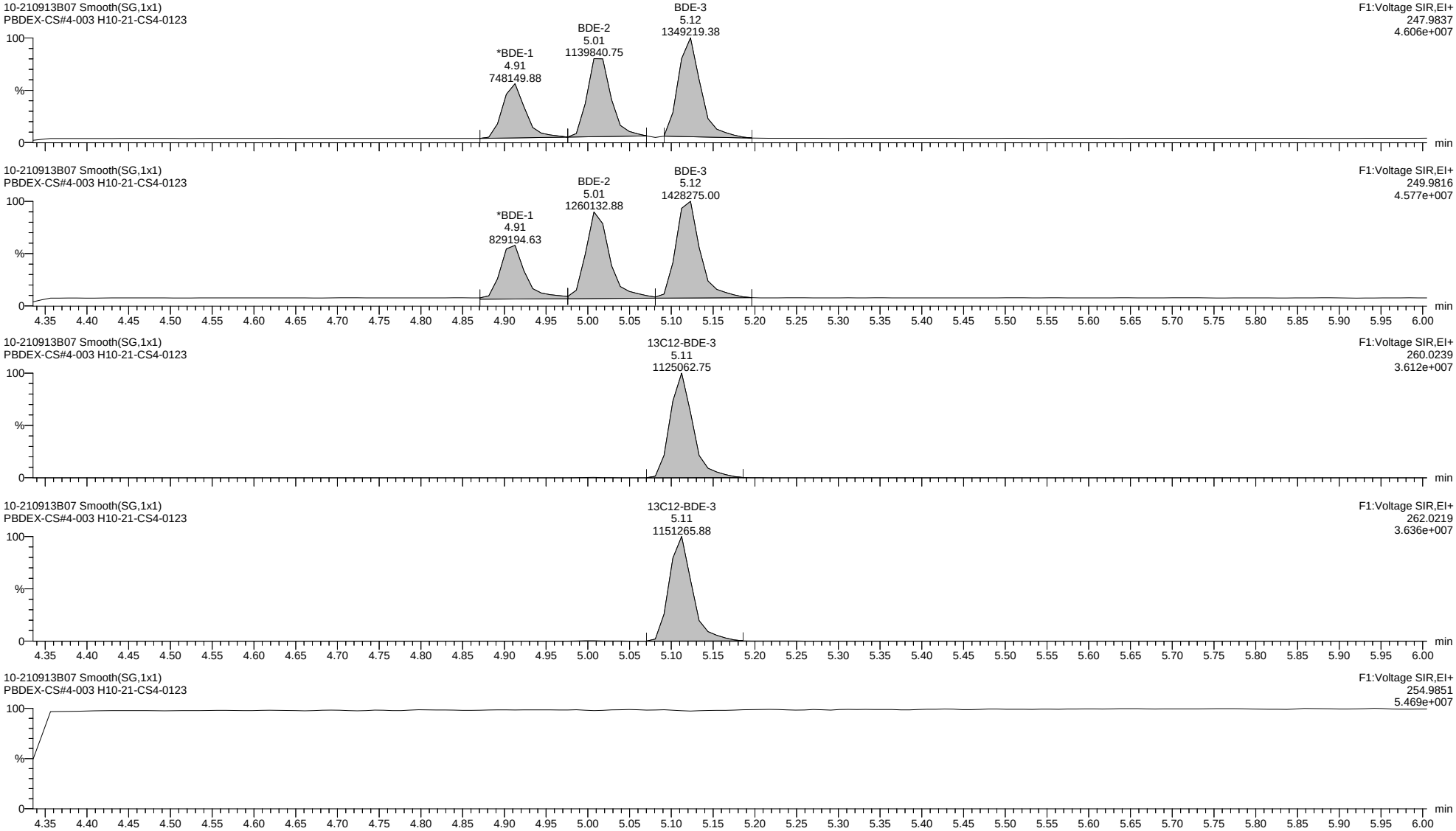

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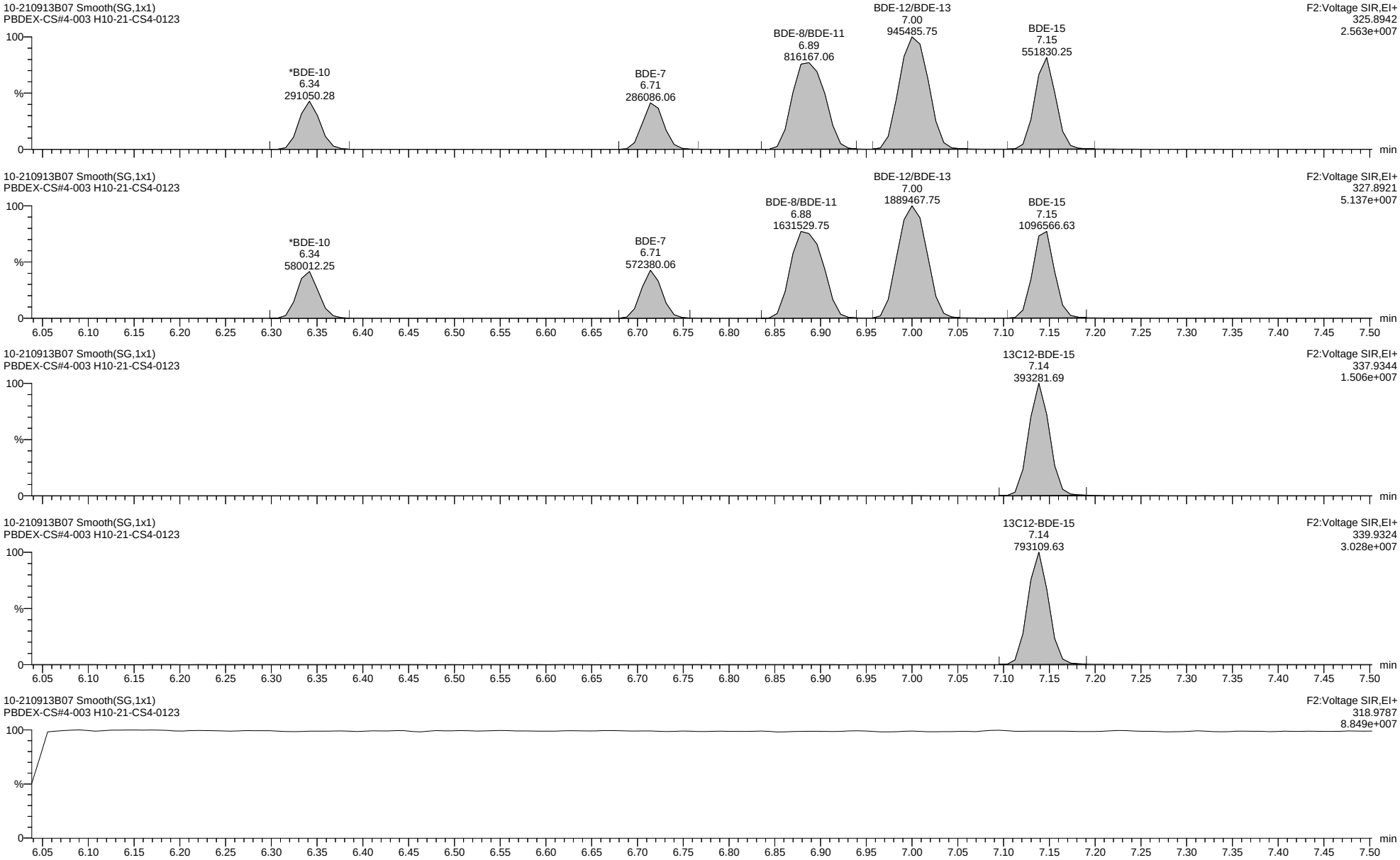

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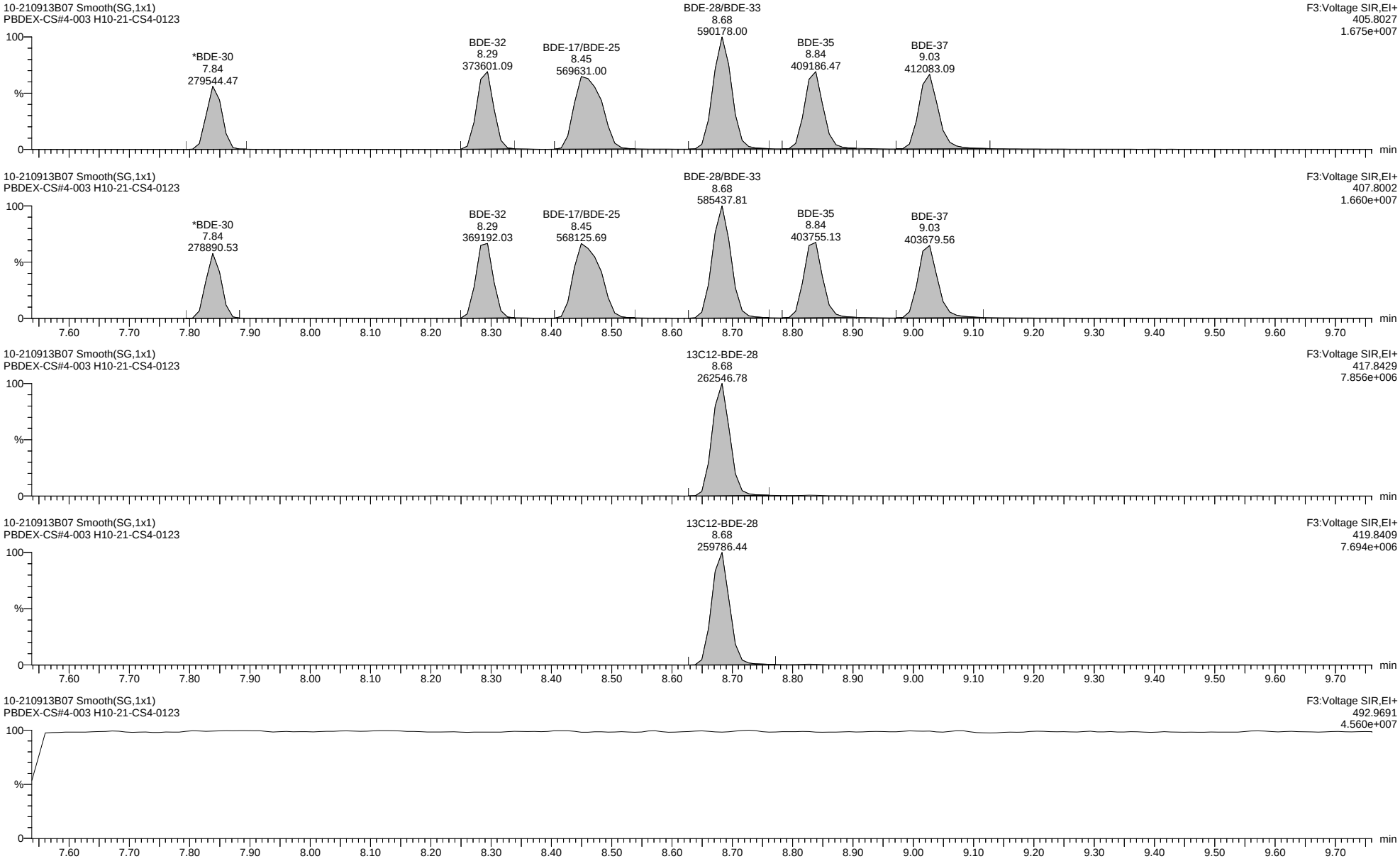

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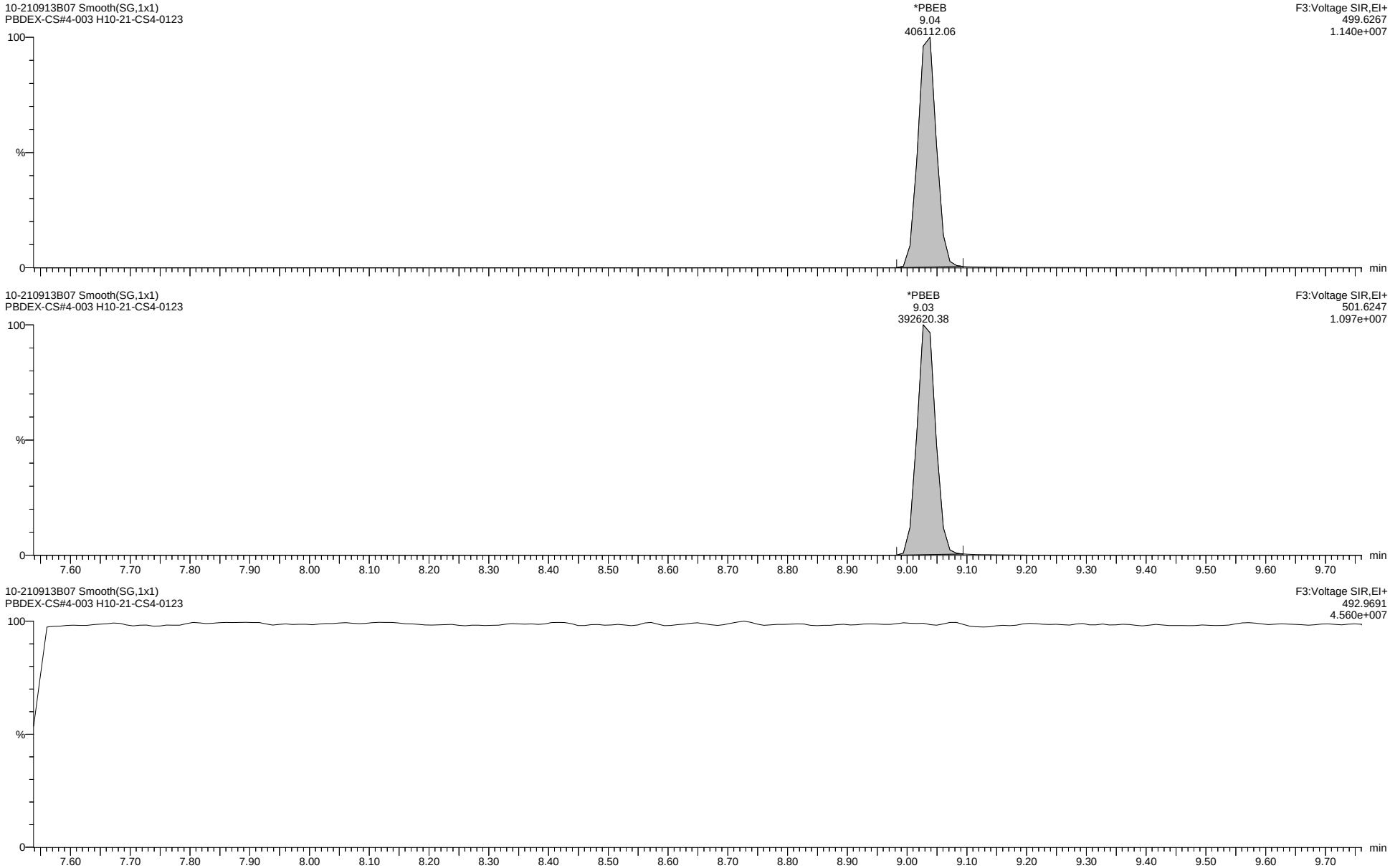

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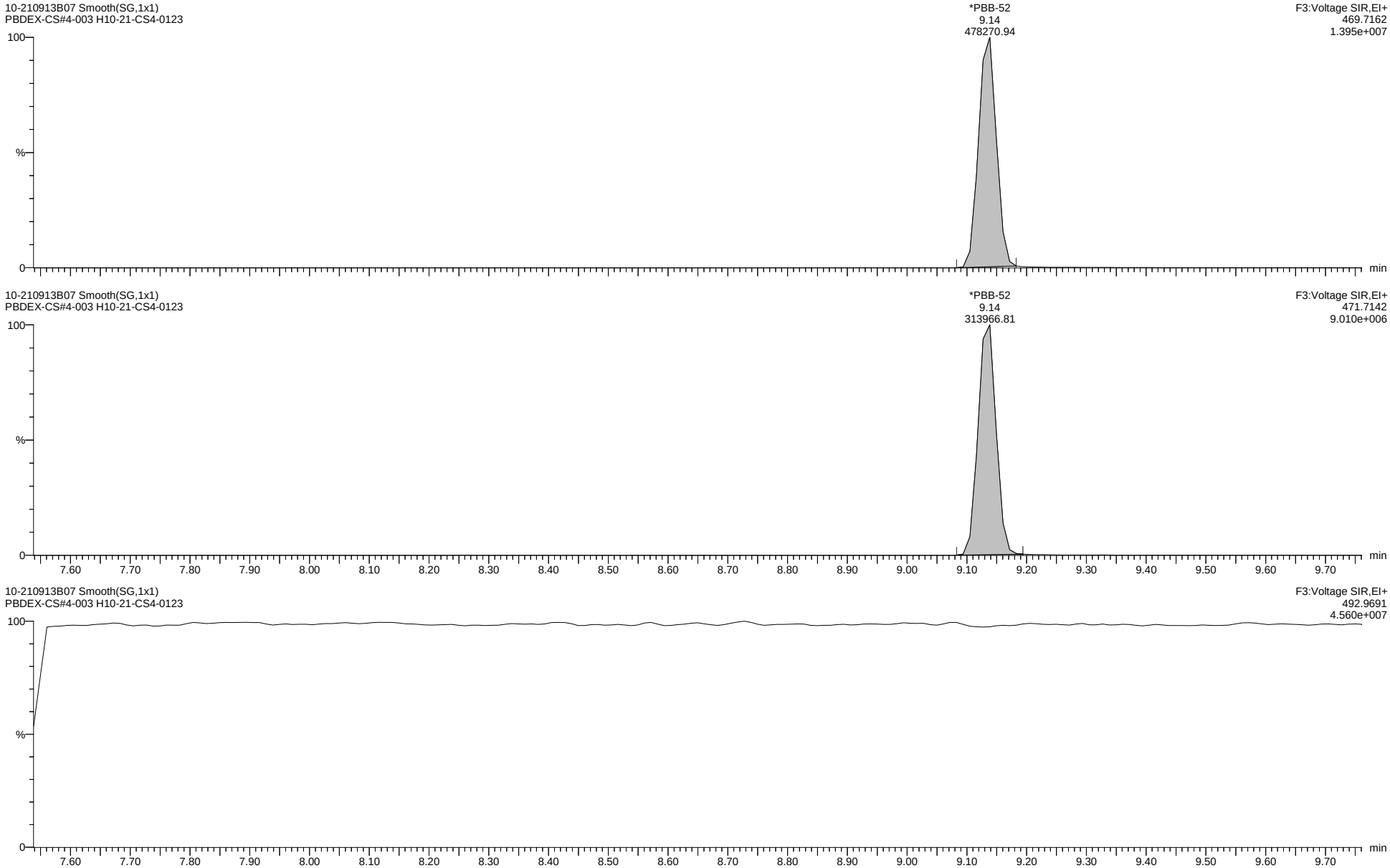

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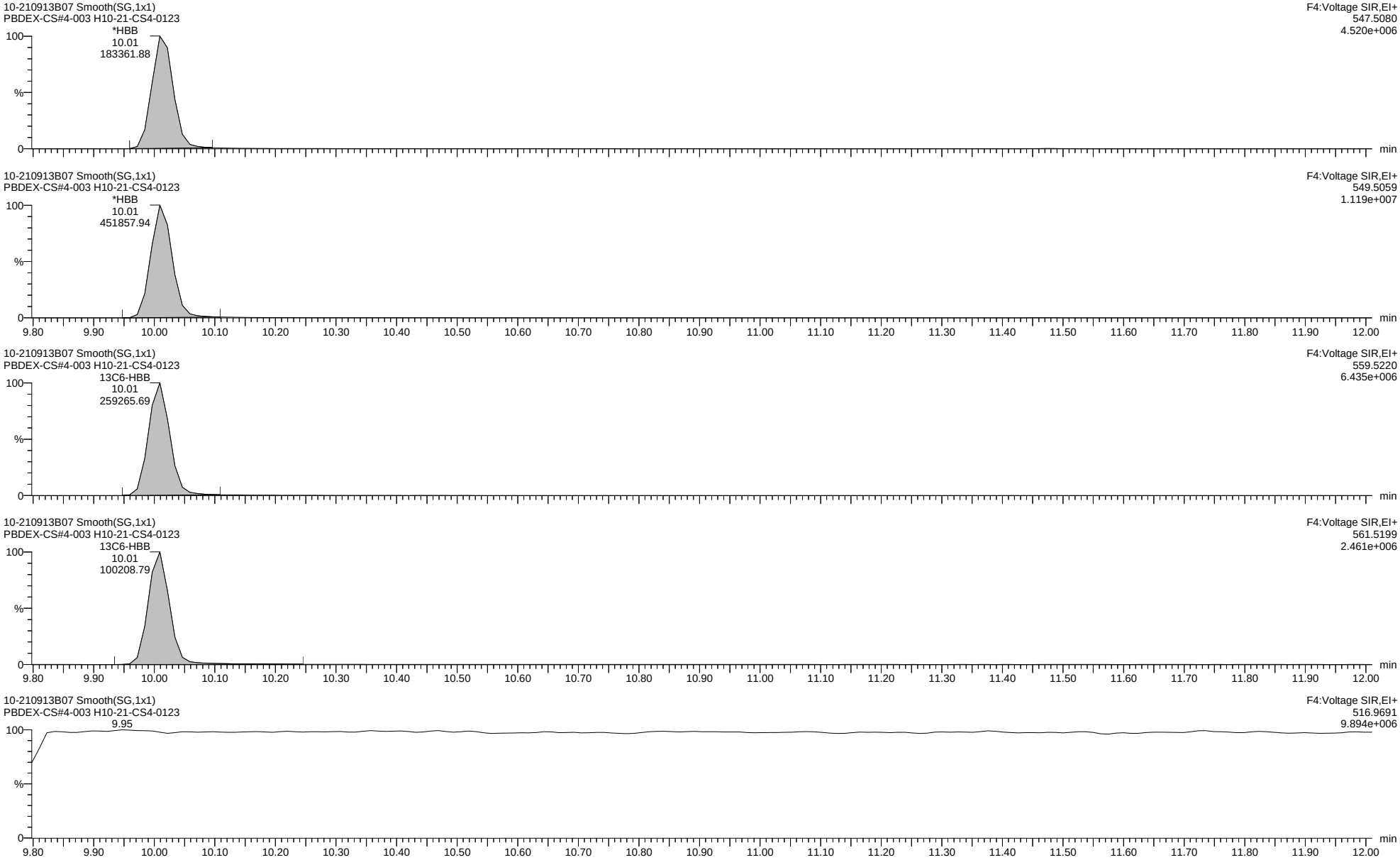

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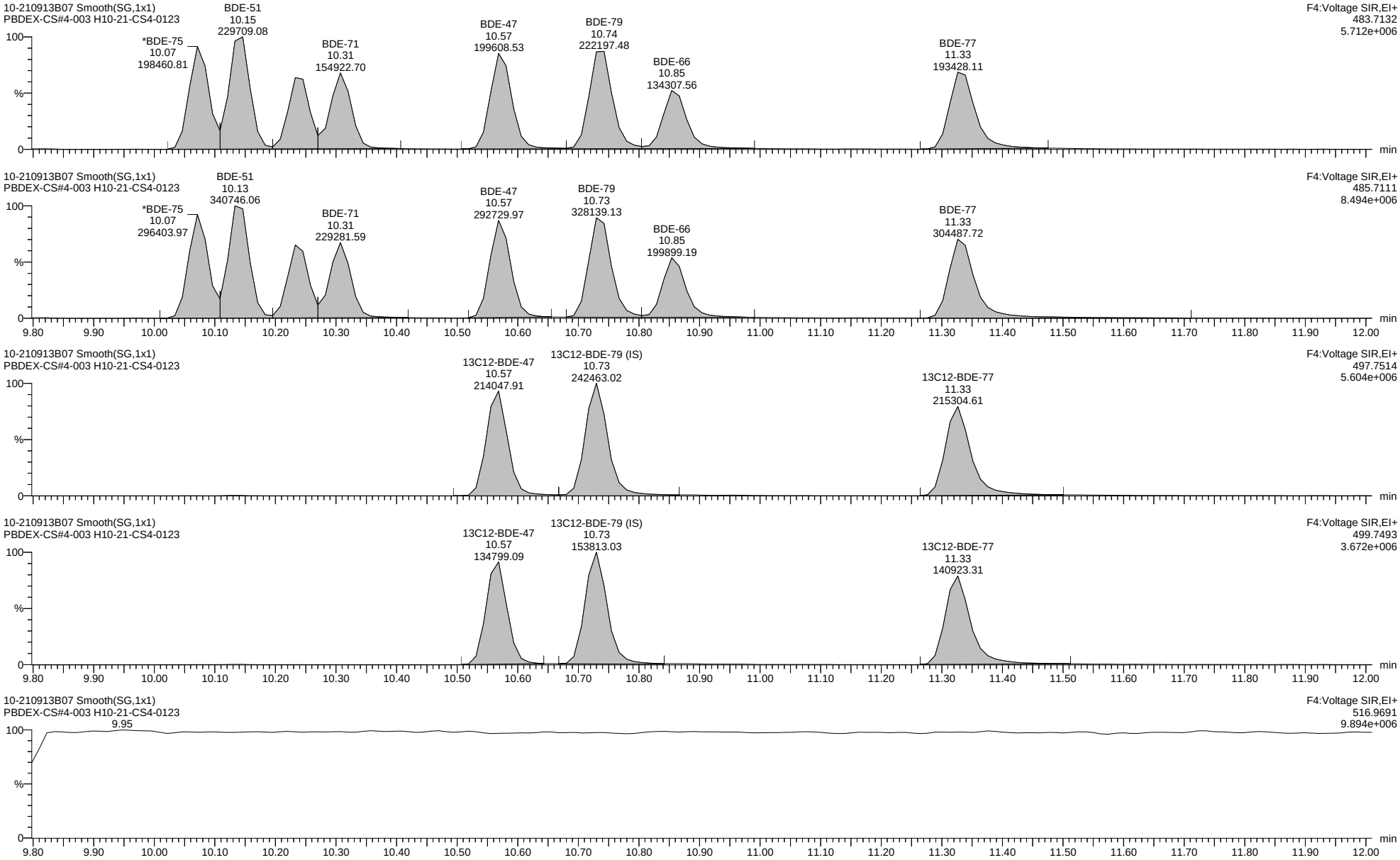

Quantify Sample Template Report **MassLynx MassLynx V4.1 SCN 901**

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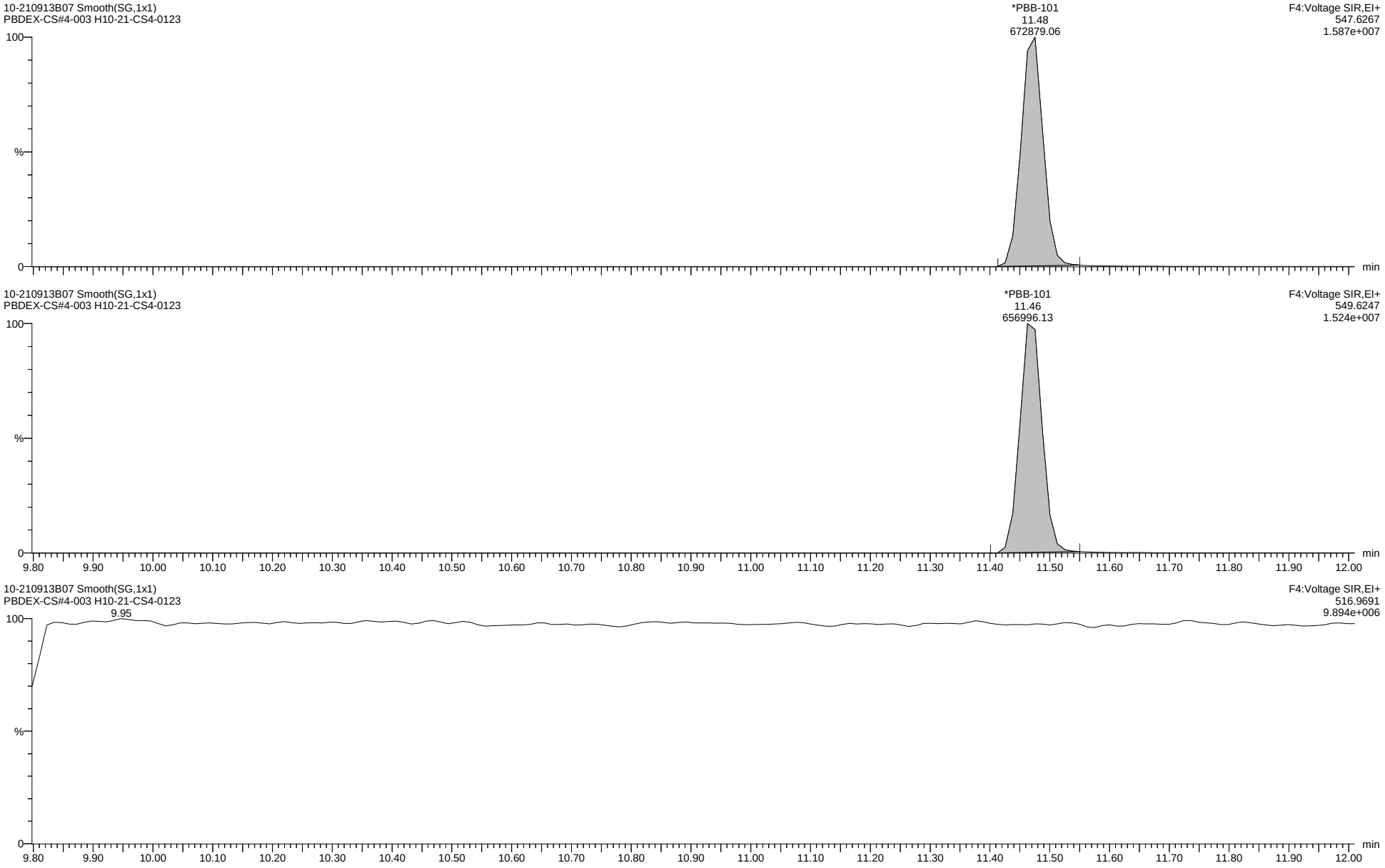

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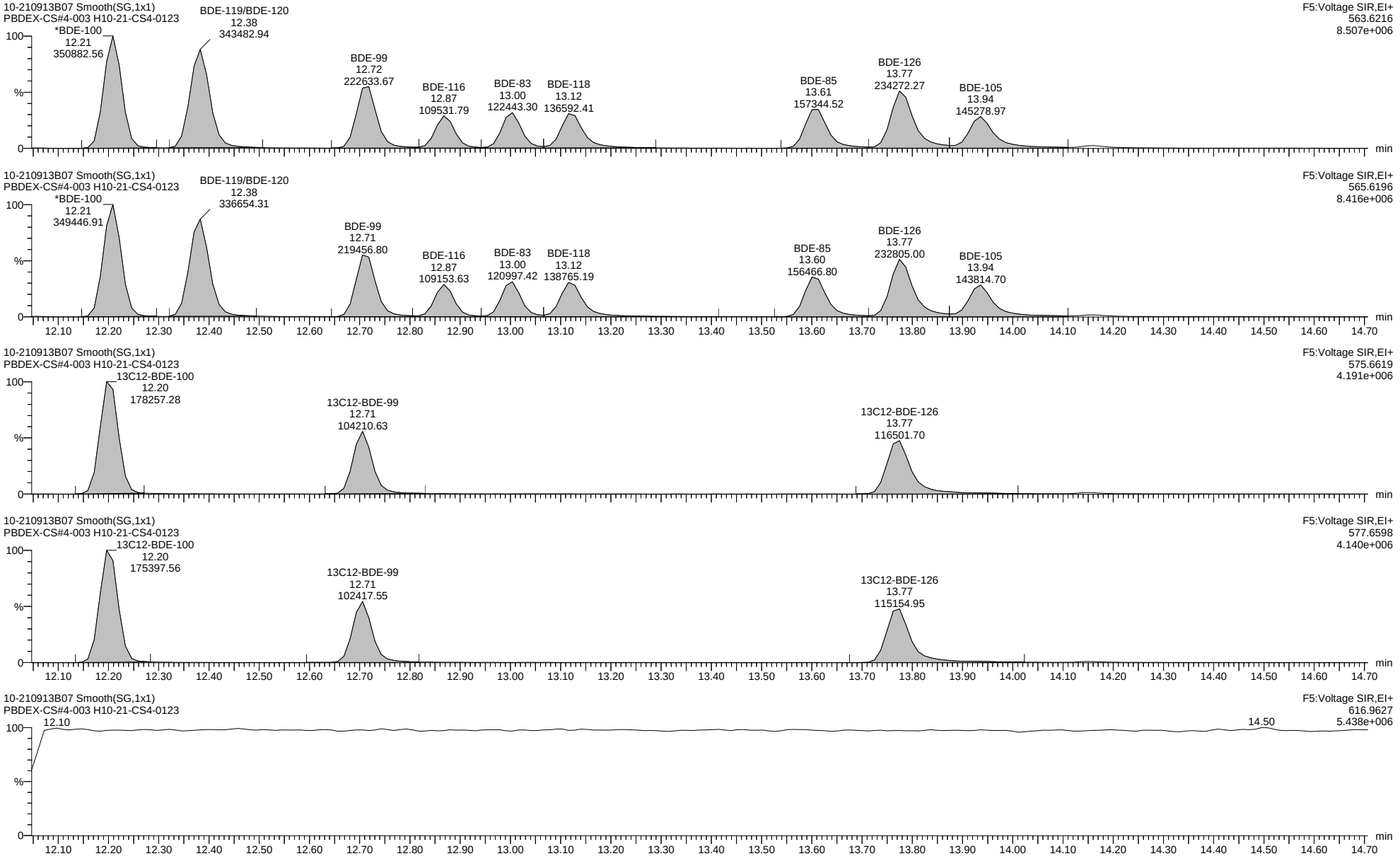

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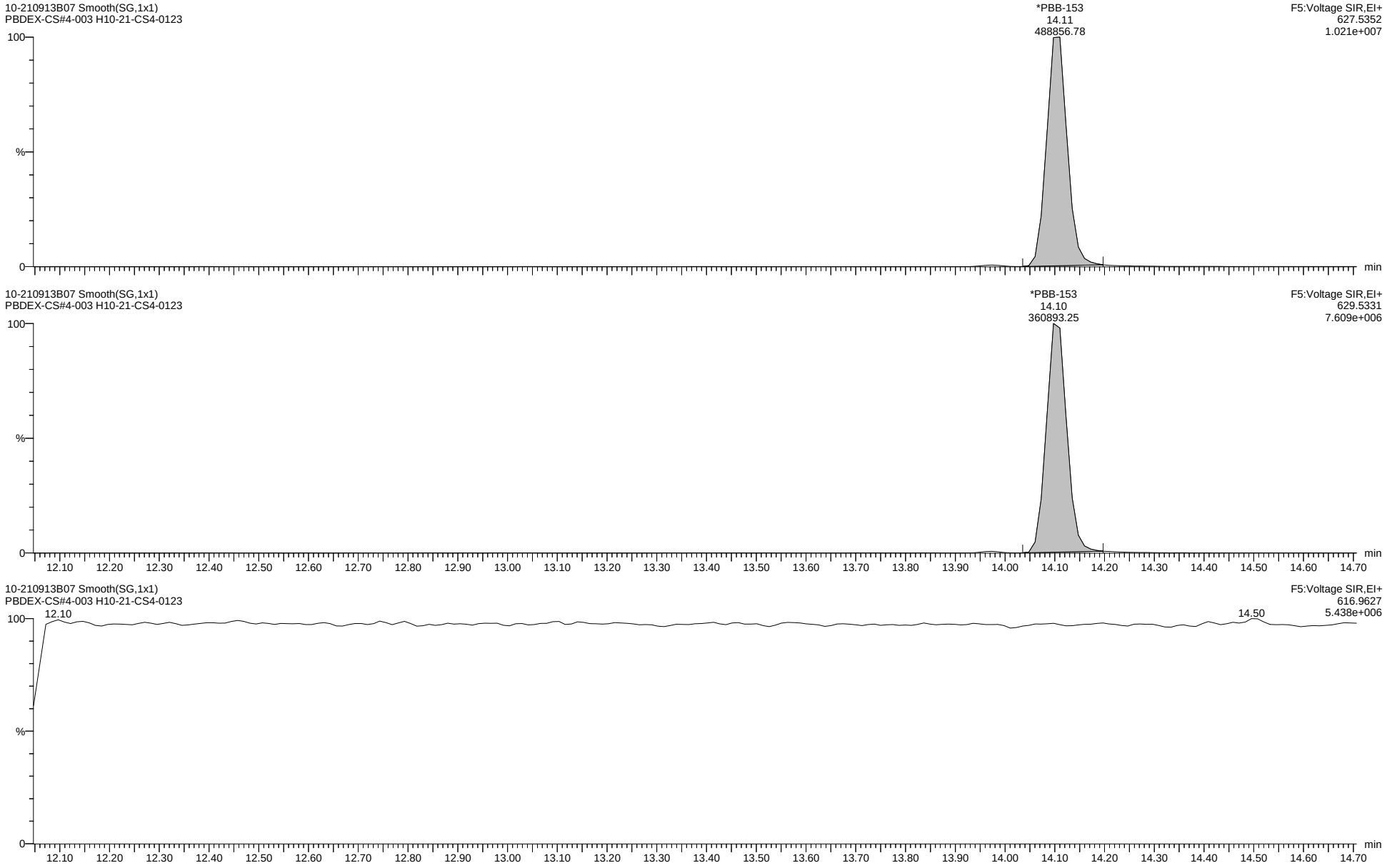

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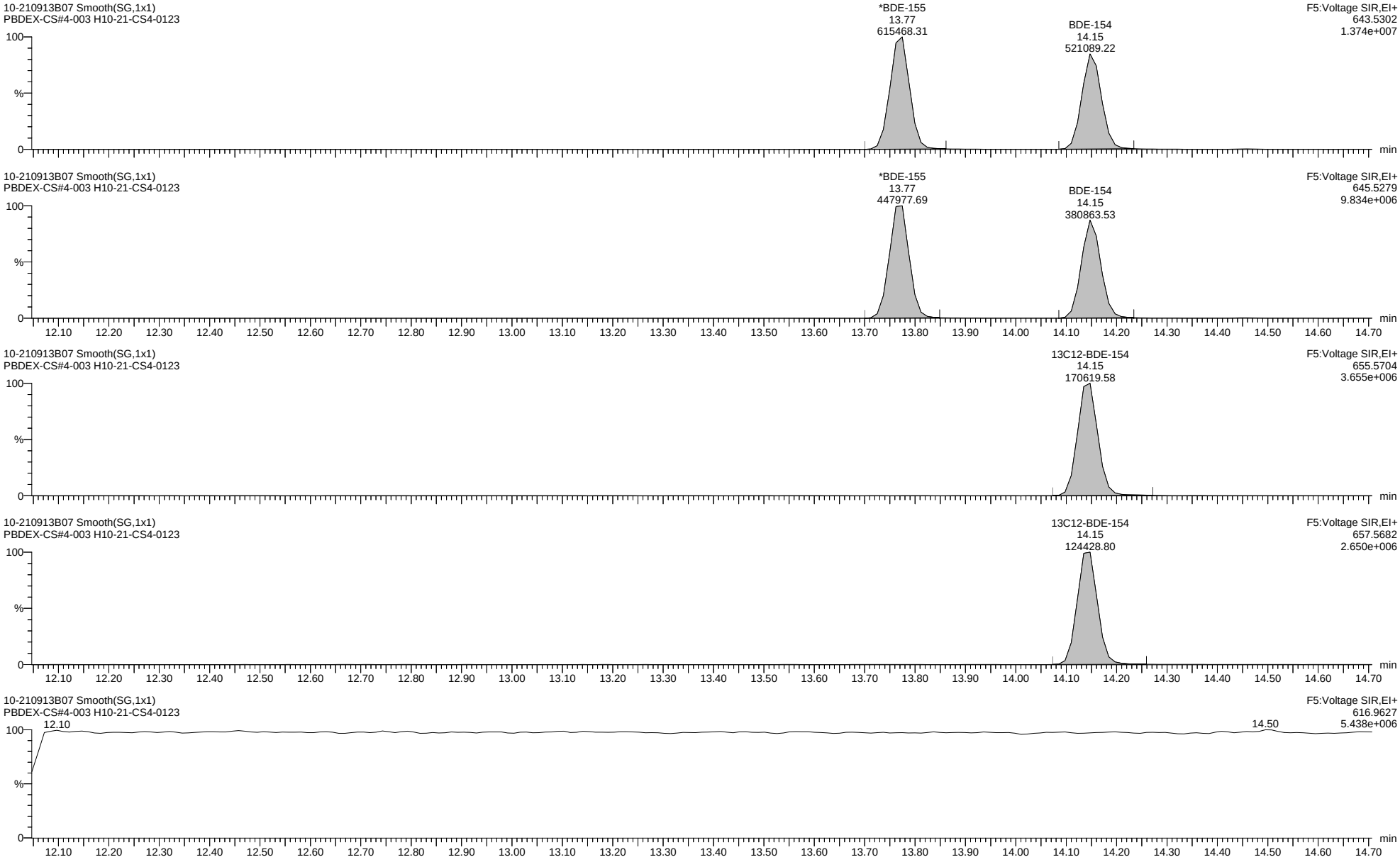

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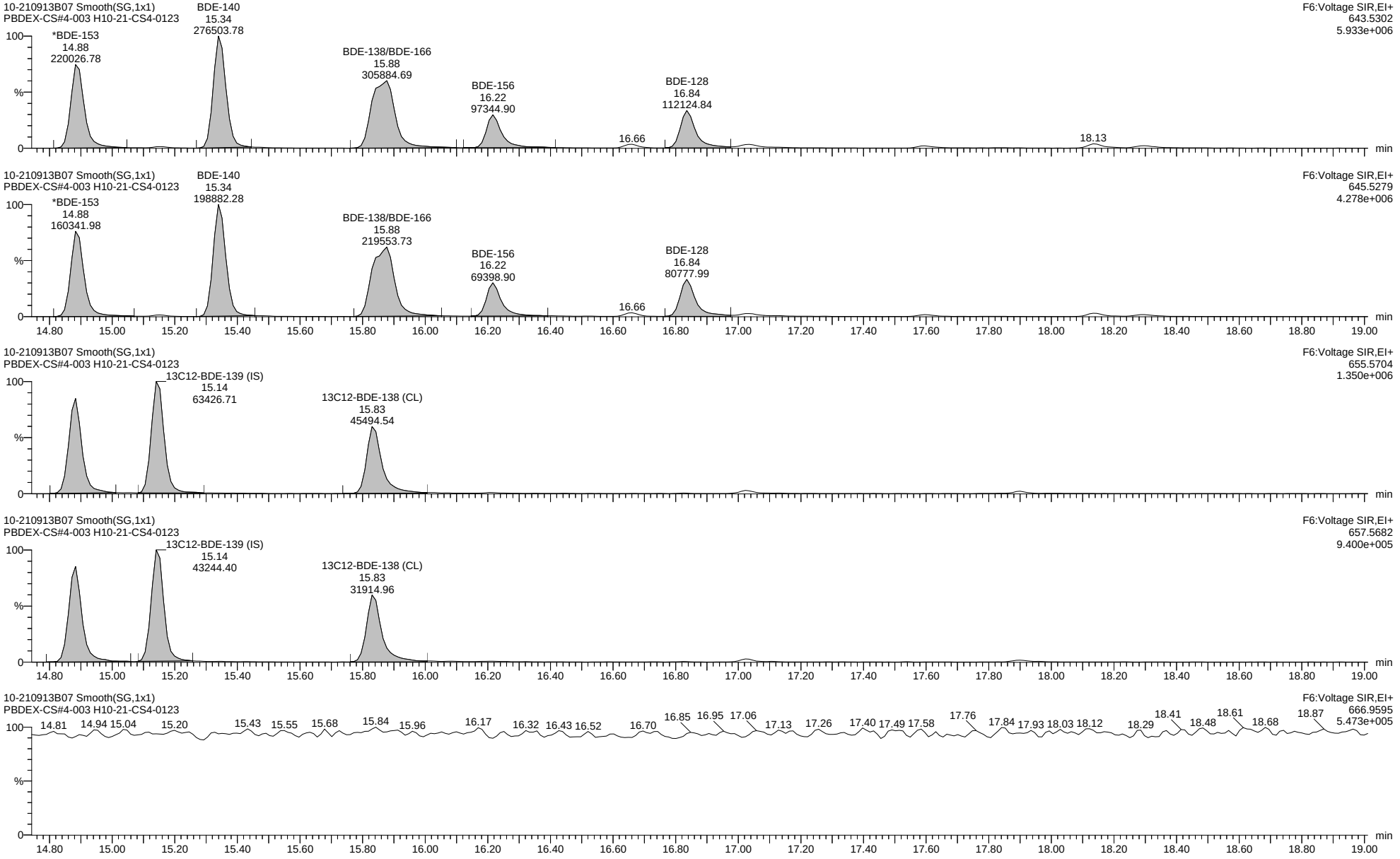

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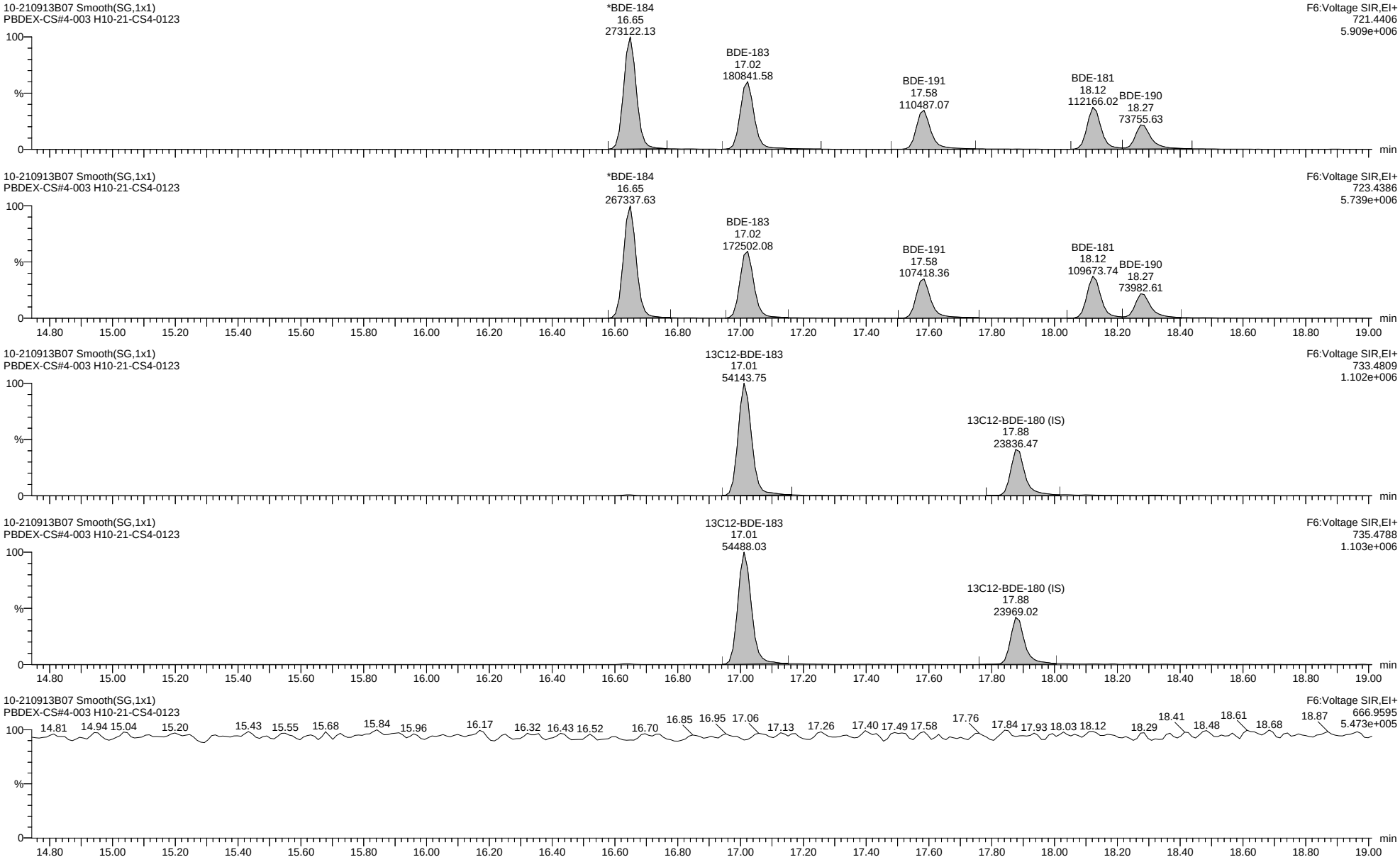

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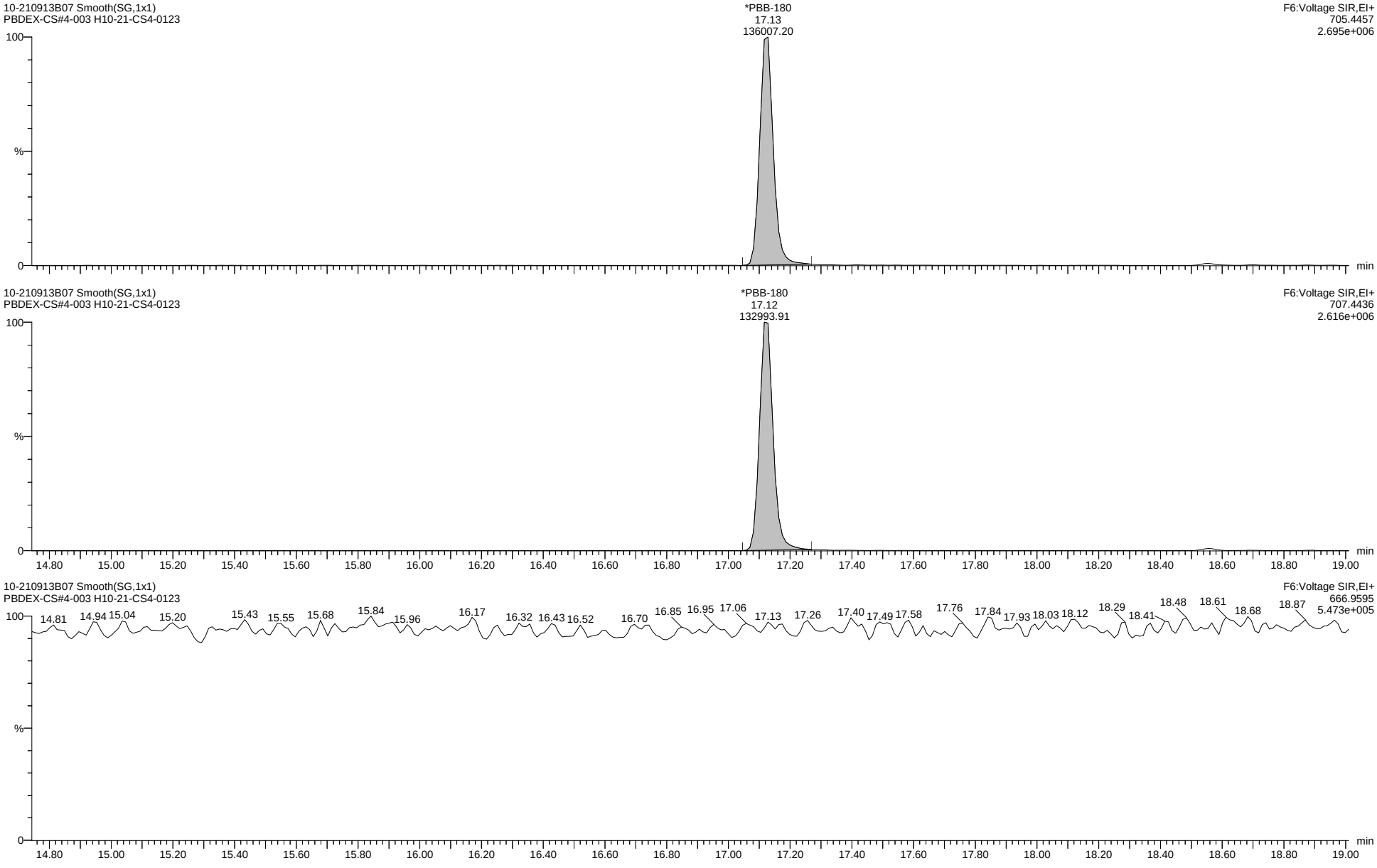

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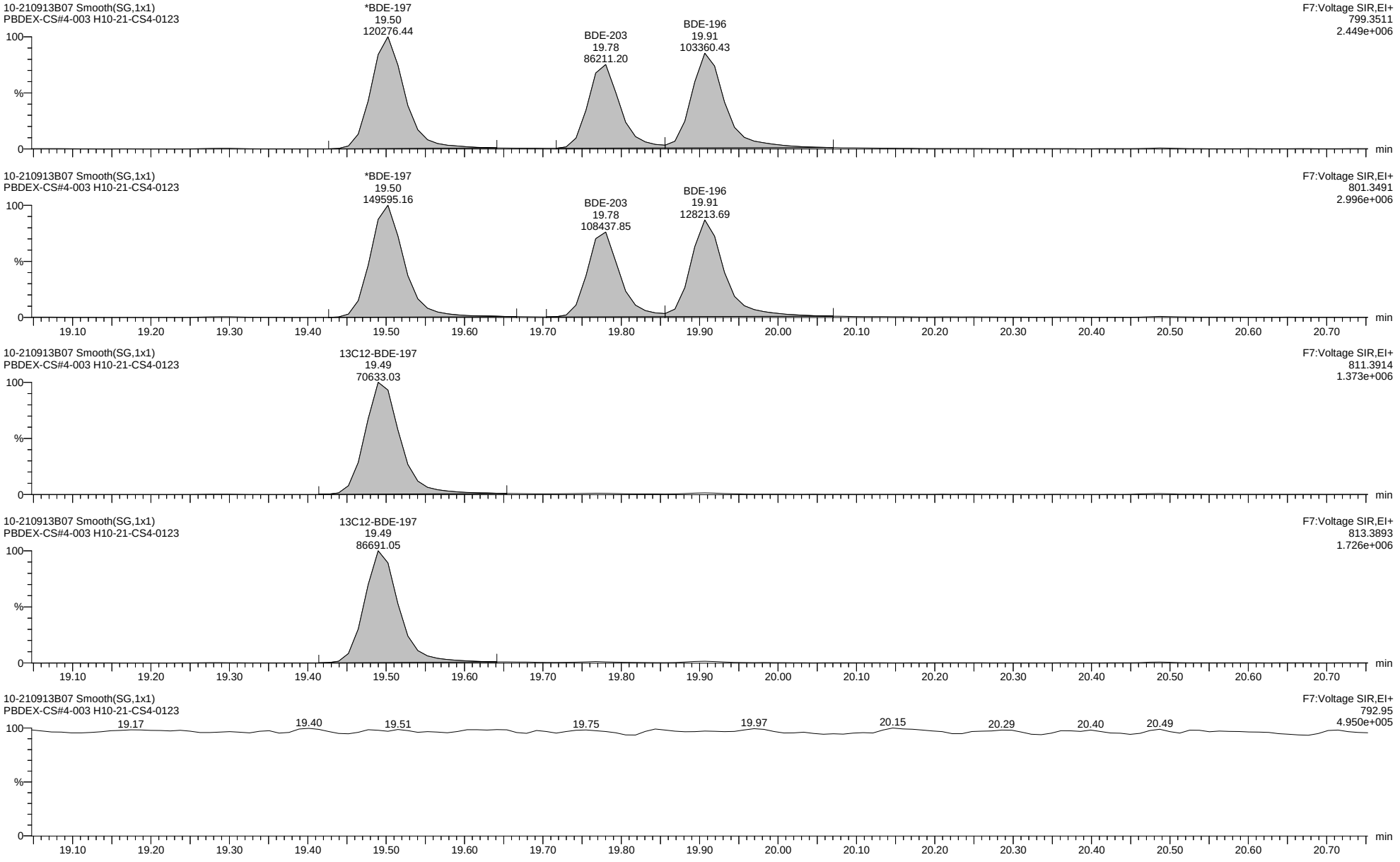

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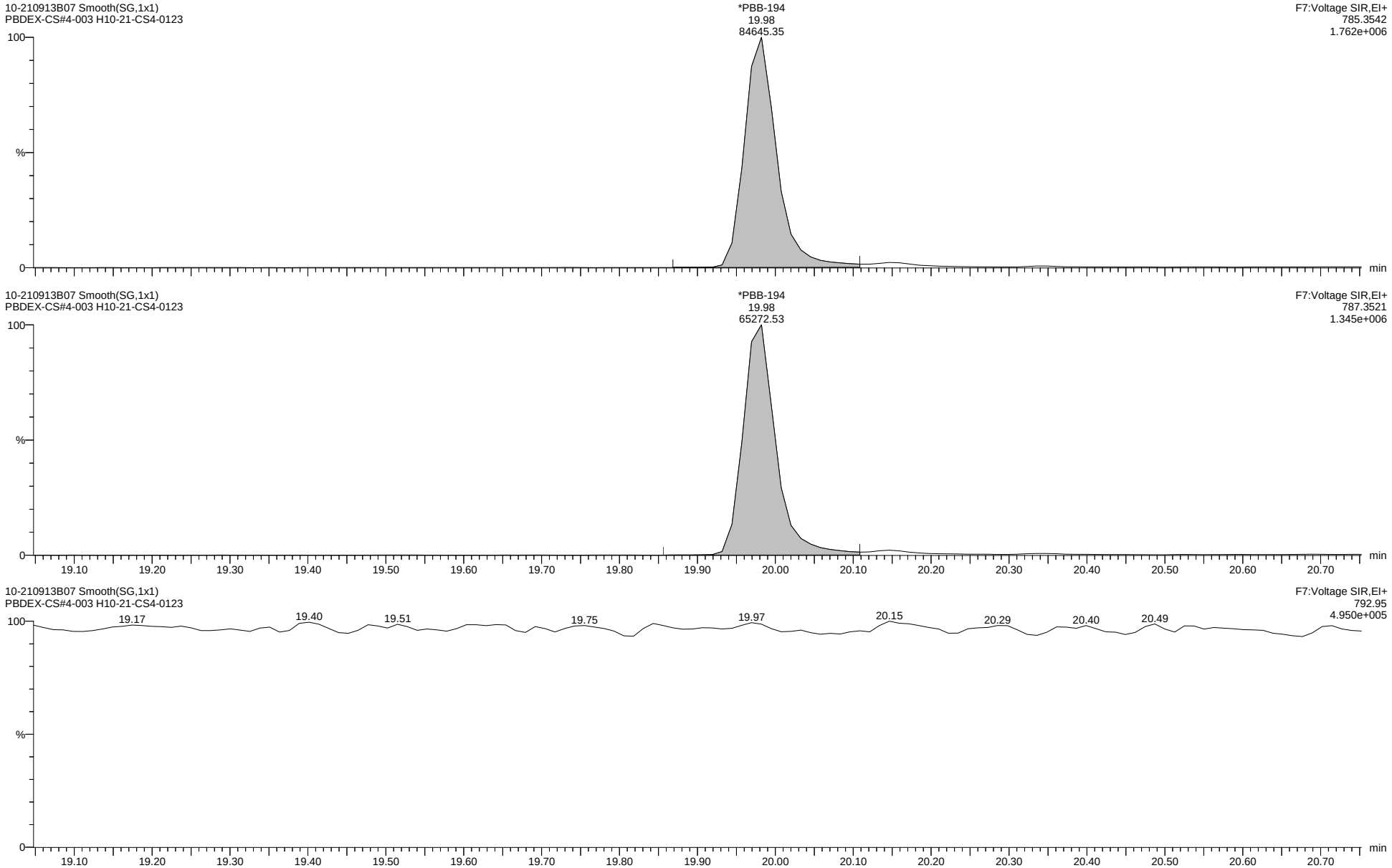

Quantify Sample Template Report **MassLynx MassLynx V4.1 SCN 901**

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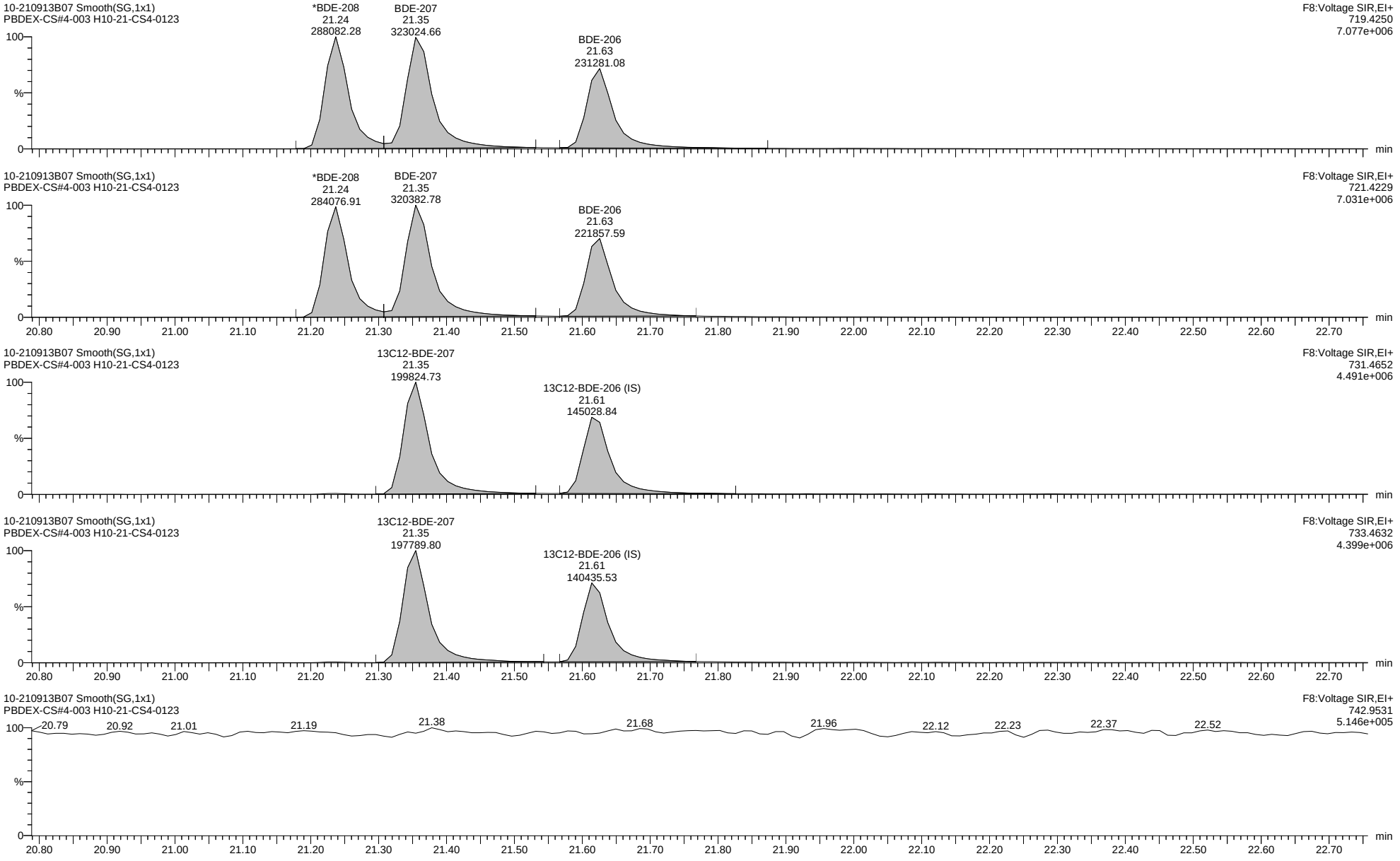

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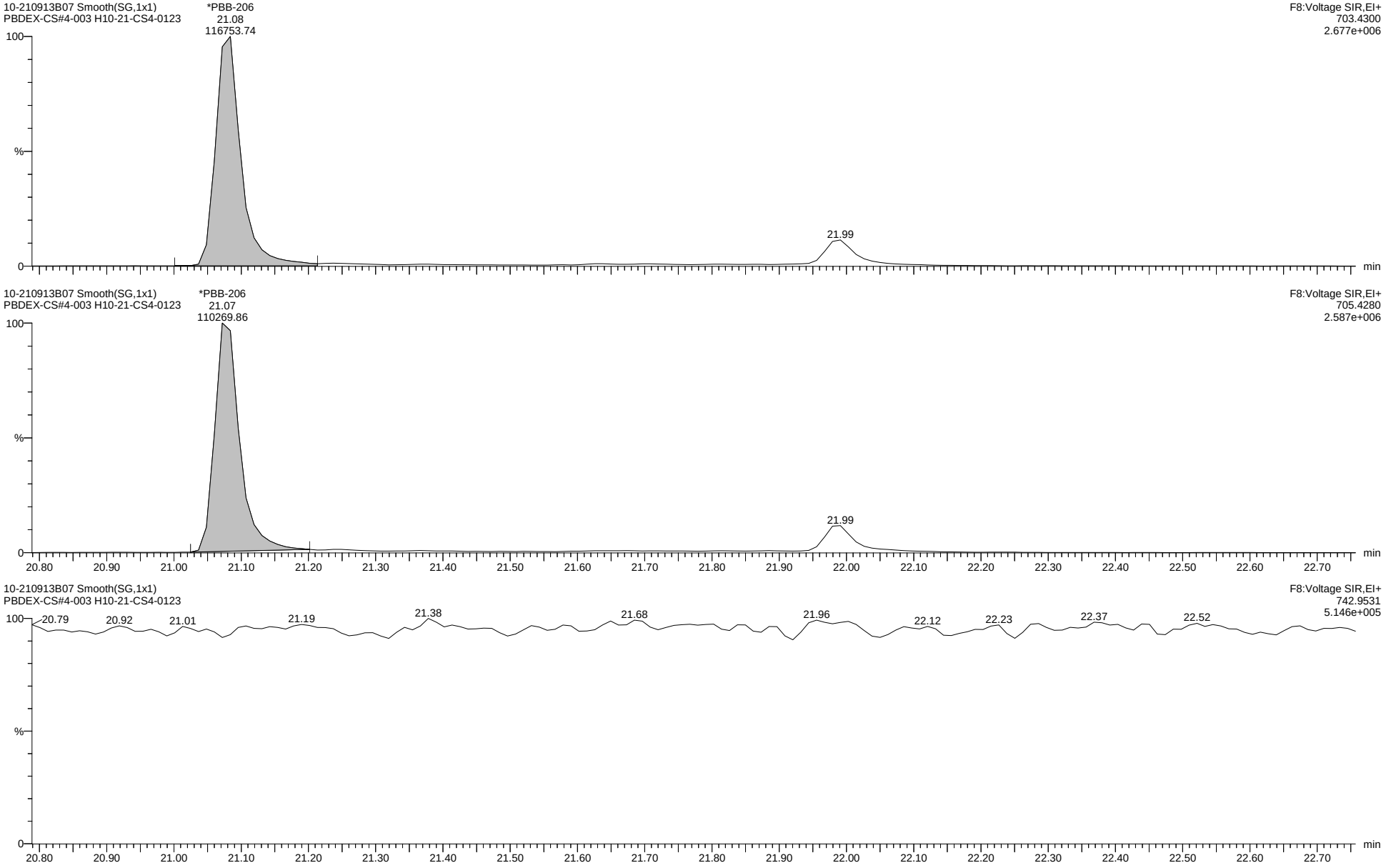

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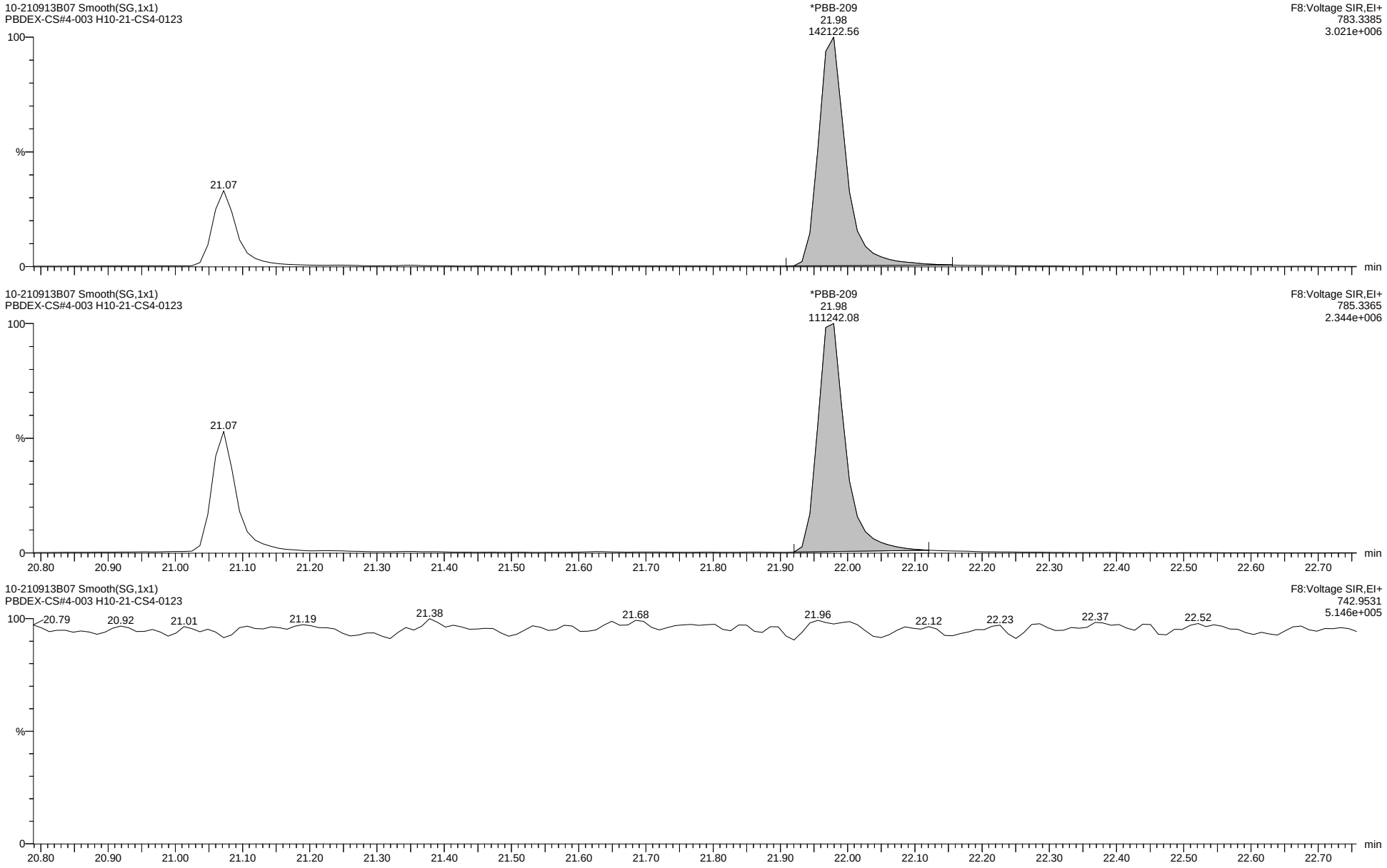

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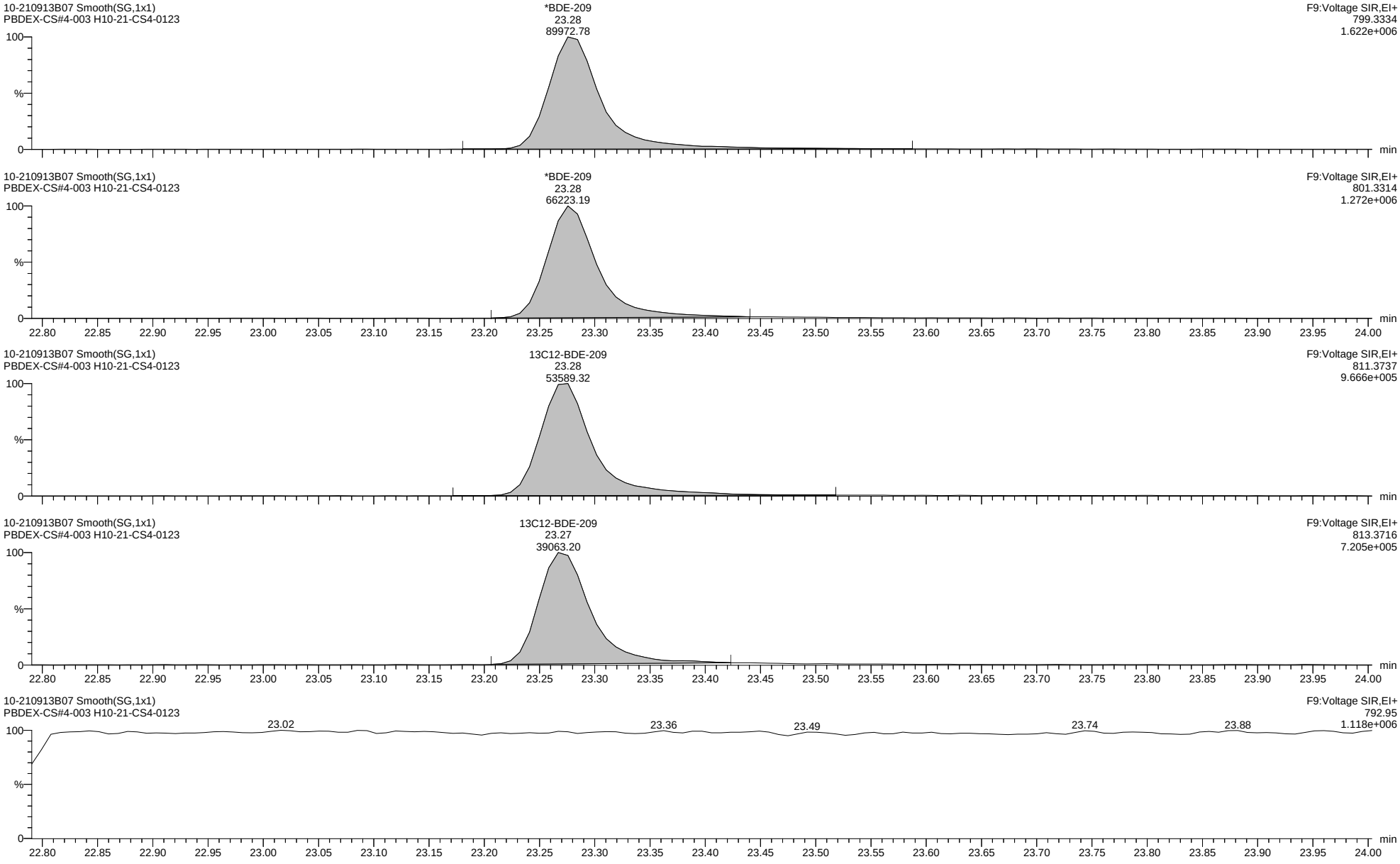

Quantify Sample Template Report **MassLynx MassLynx V4.1 SCN 901**

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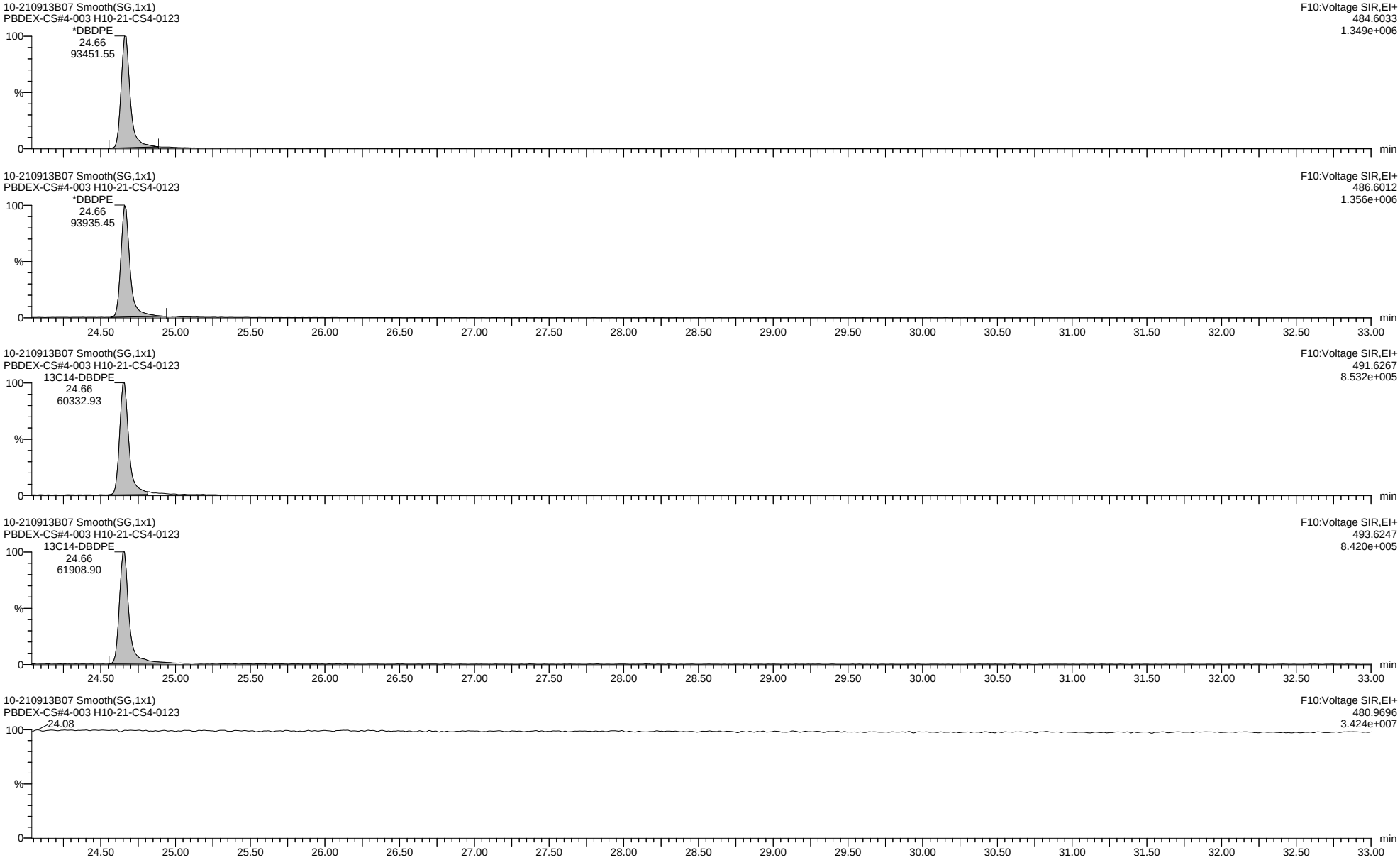

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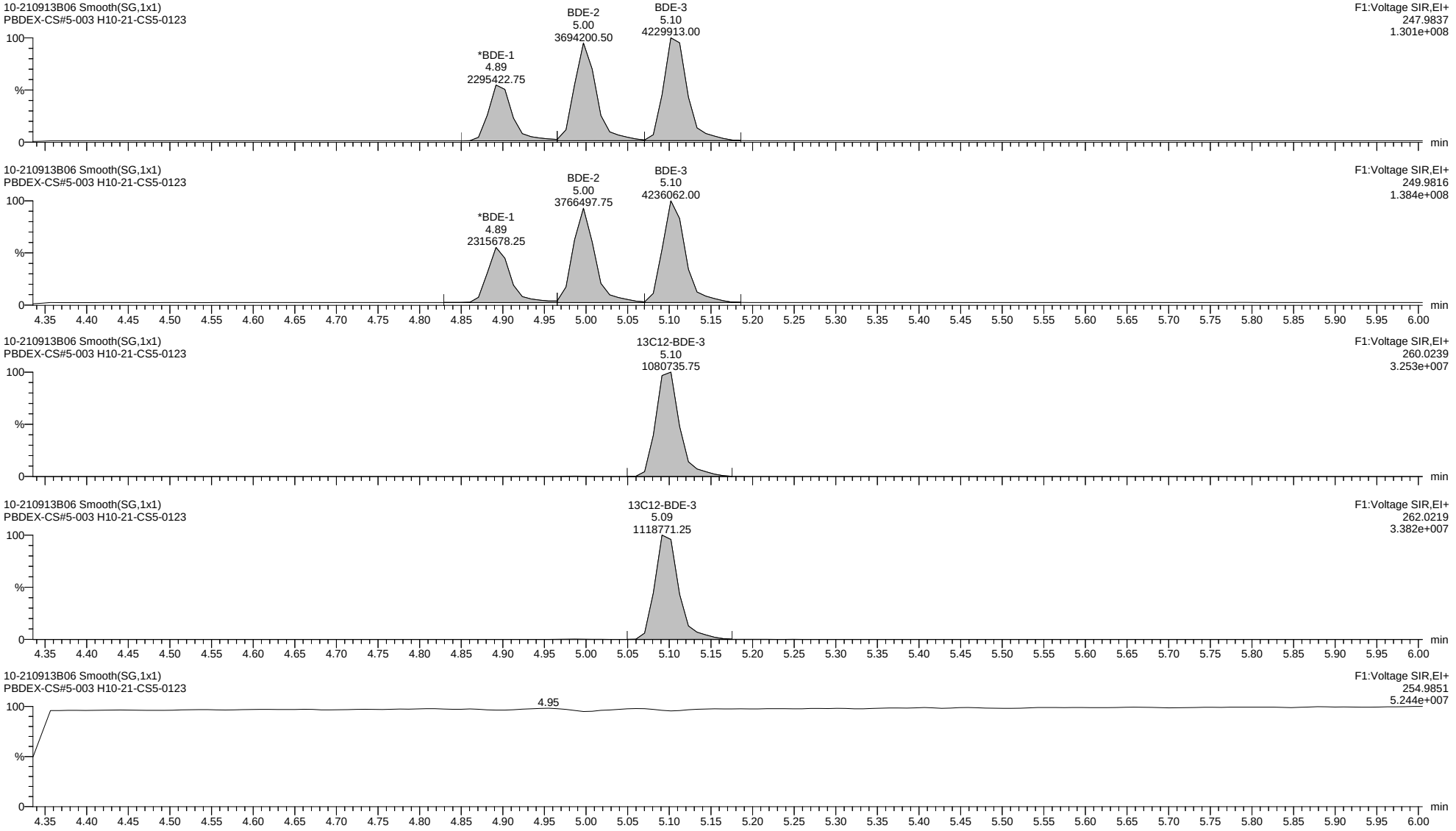

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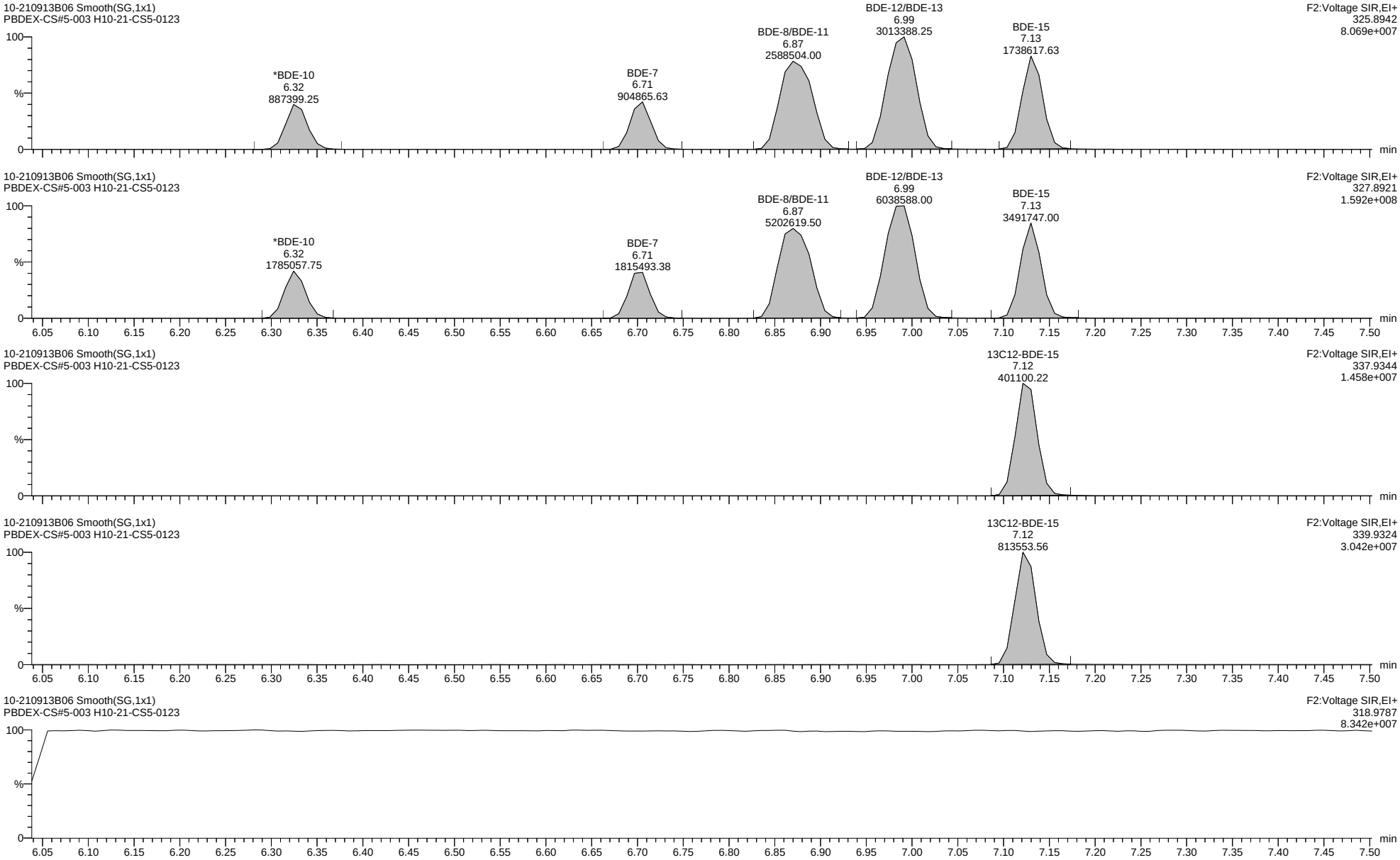

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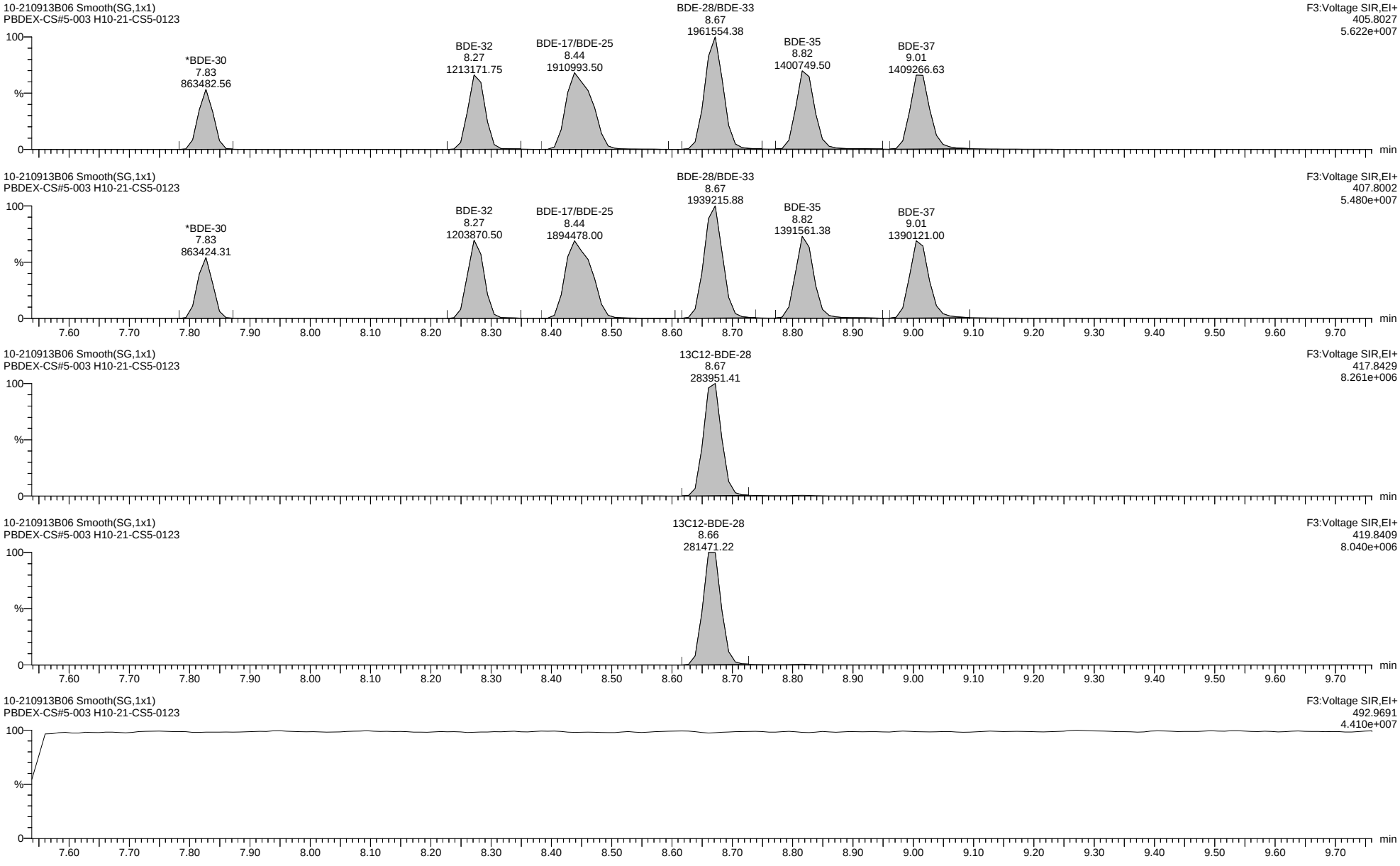

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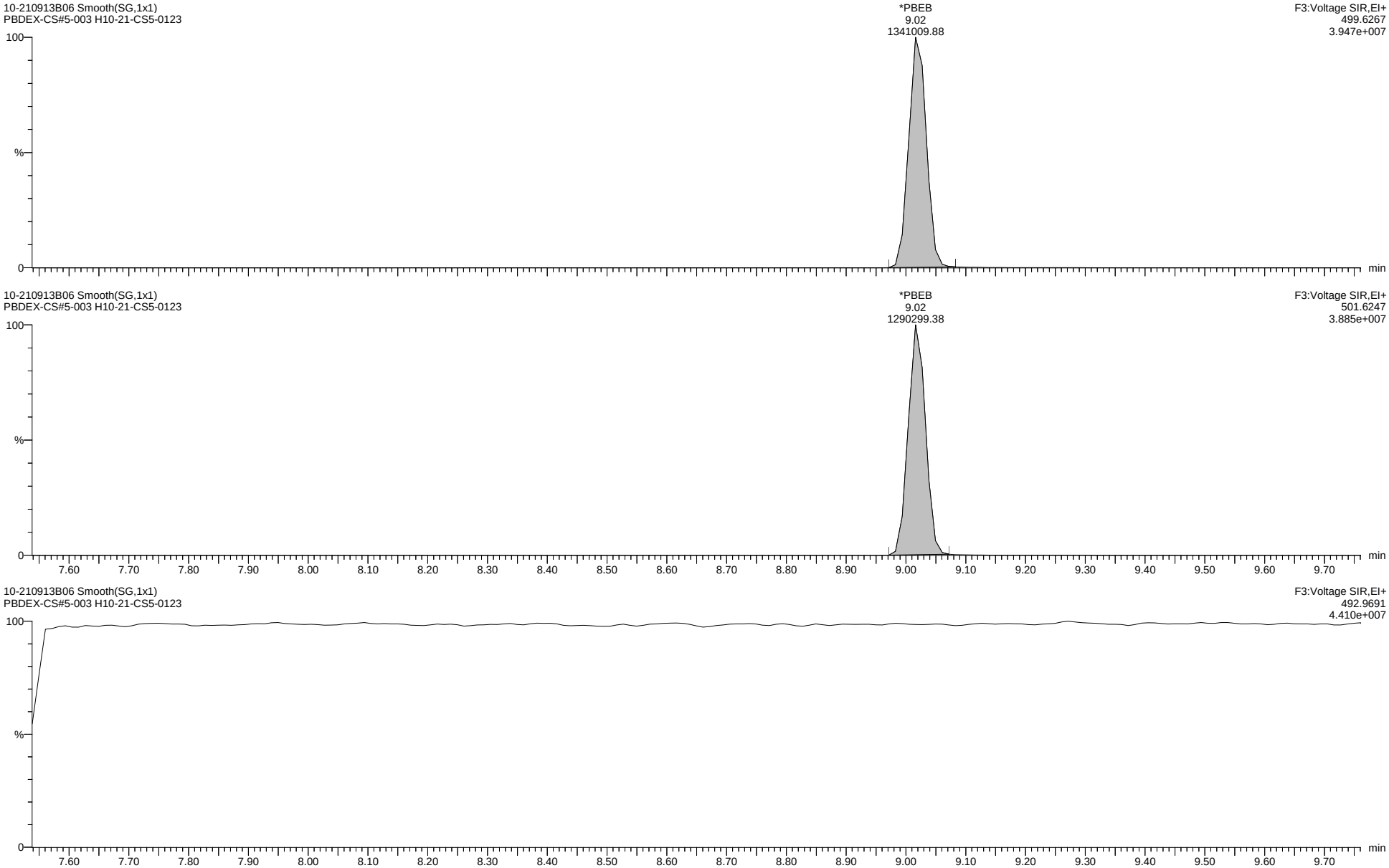

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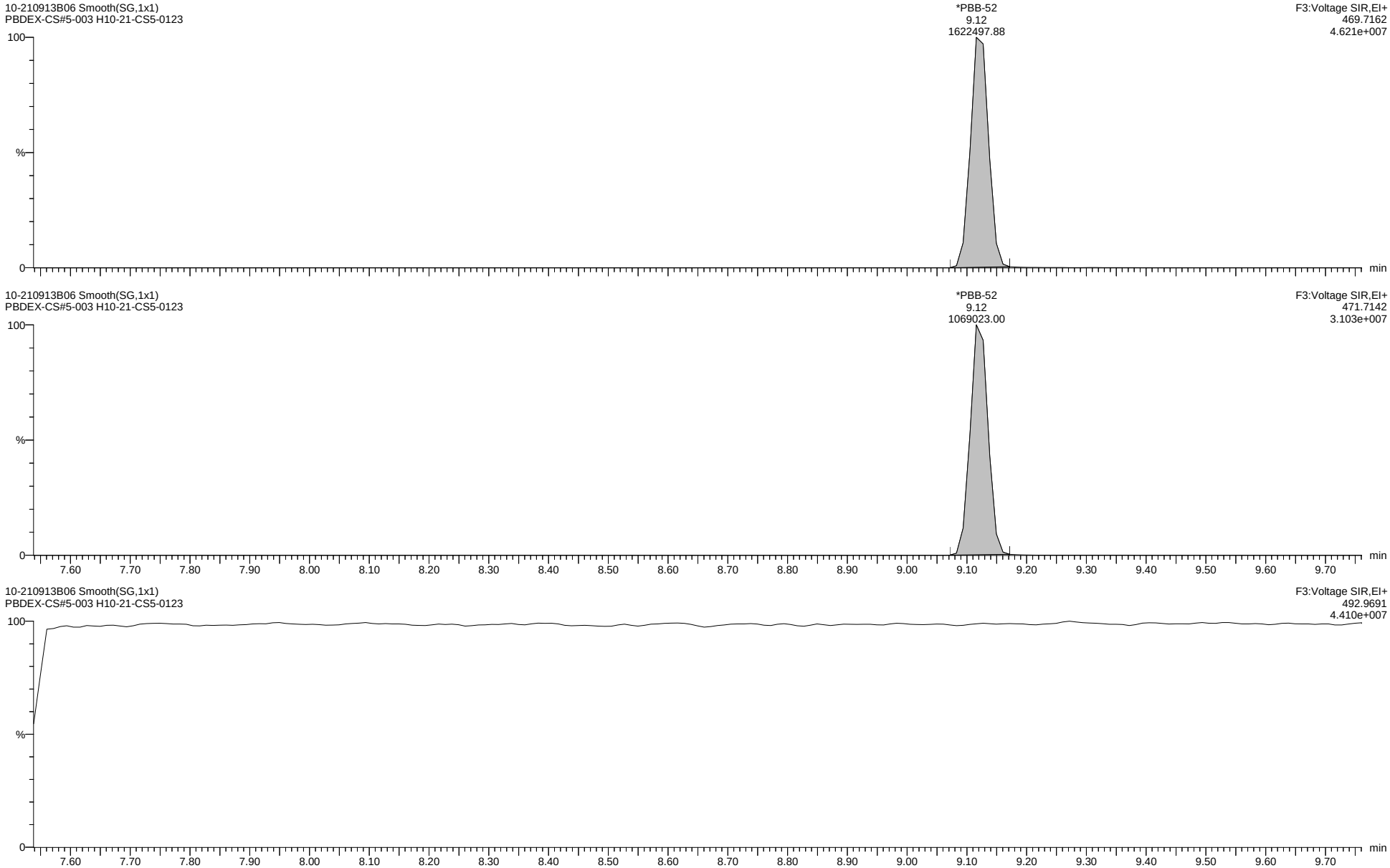

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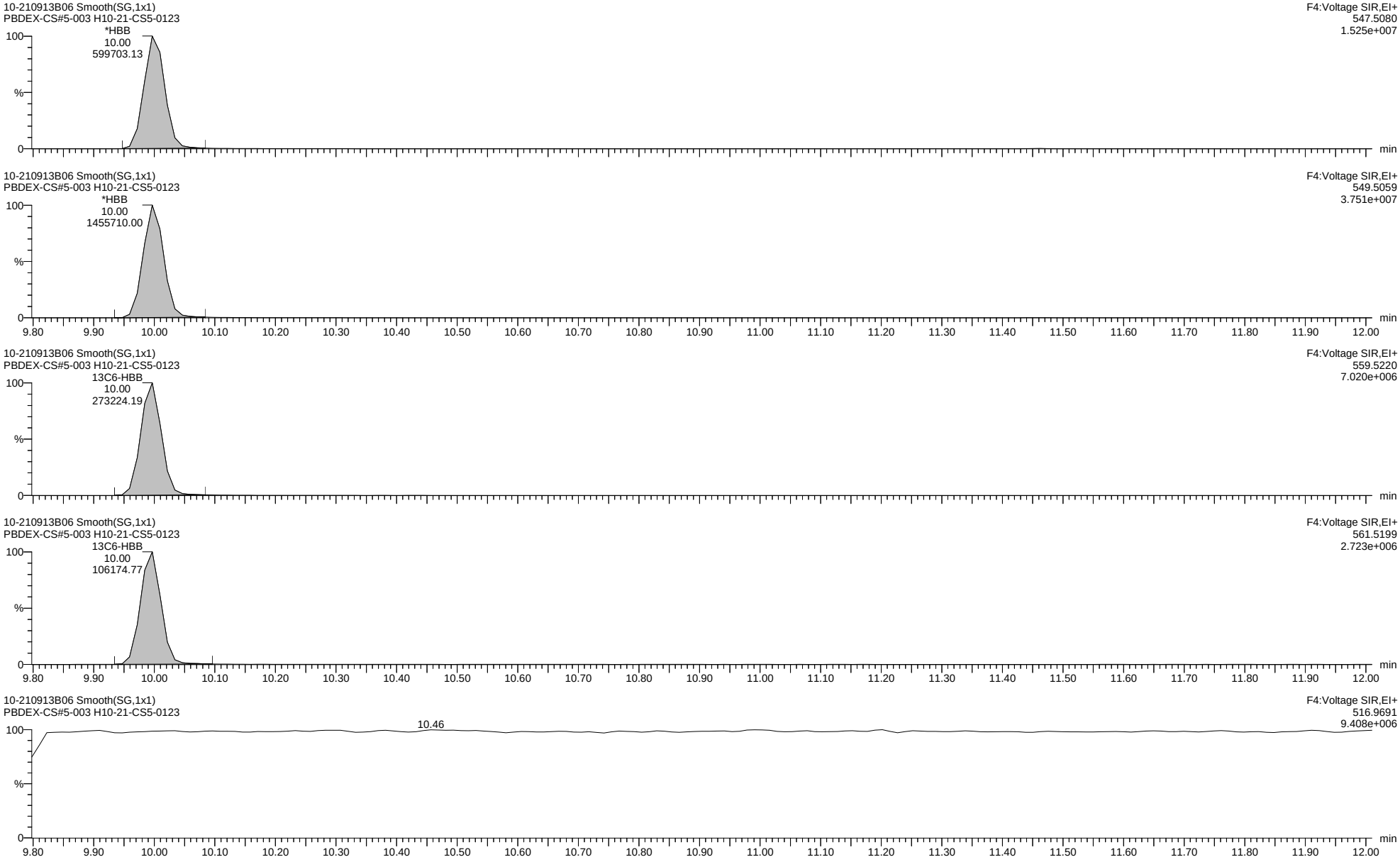

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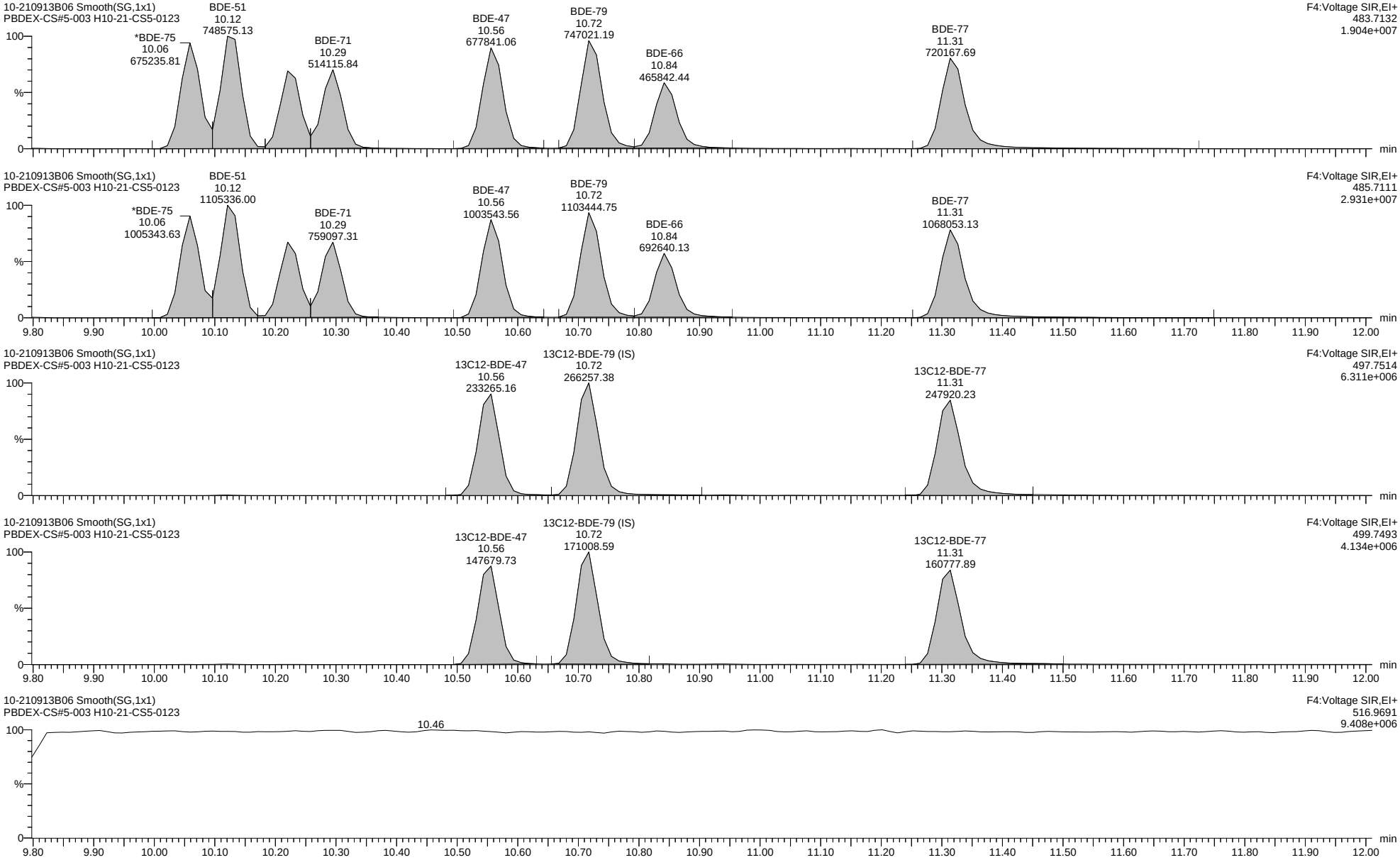

Quantify Sample Template Report **MassLynx MassLynx V4.1 SCN 901**

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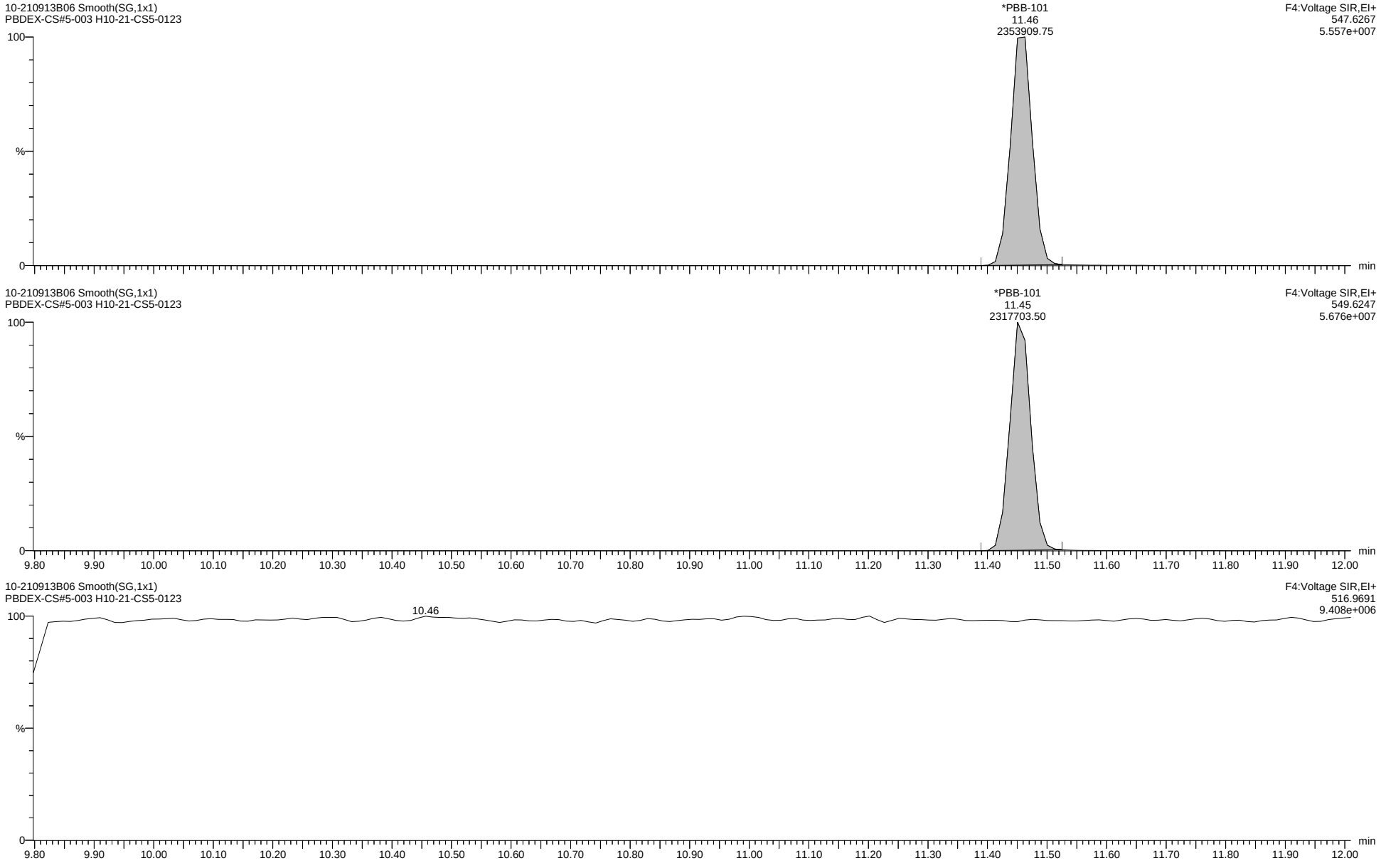

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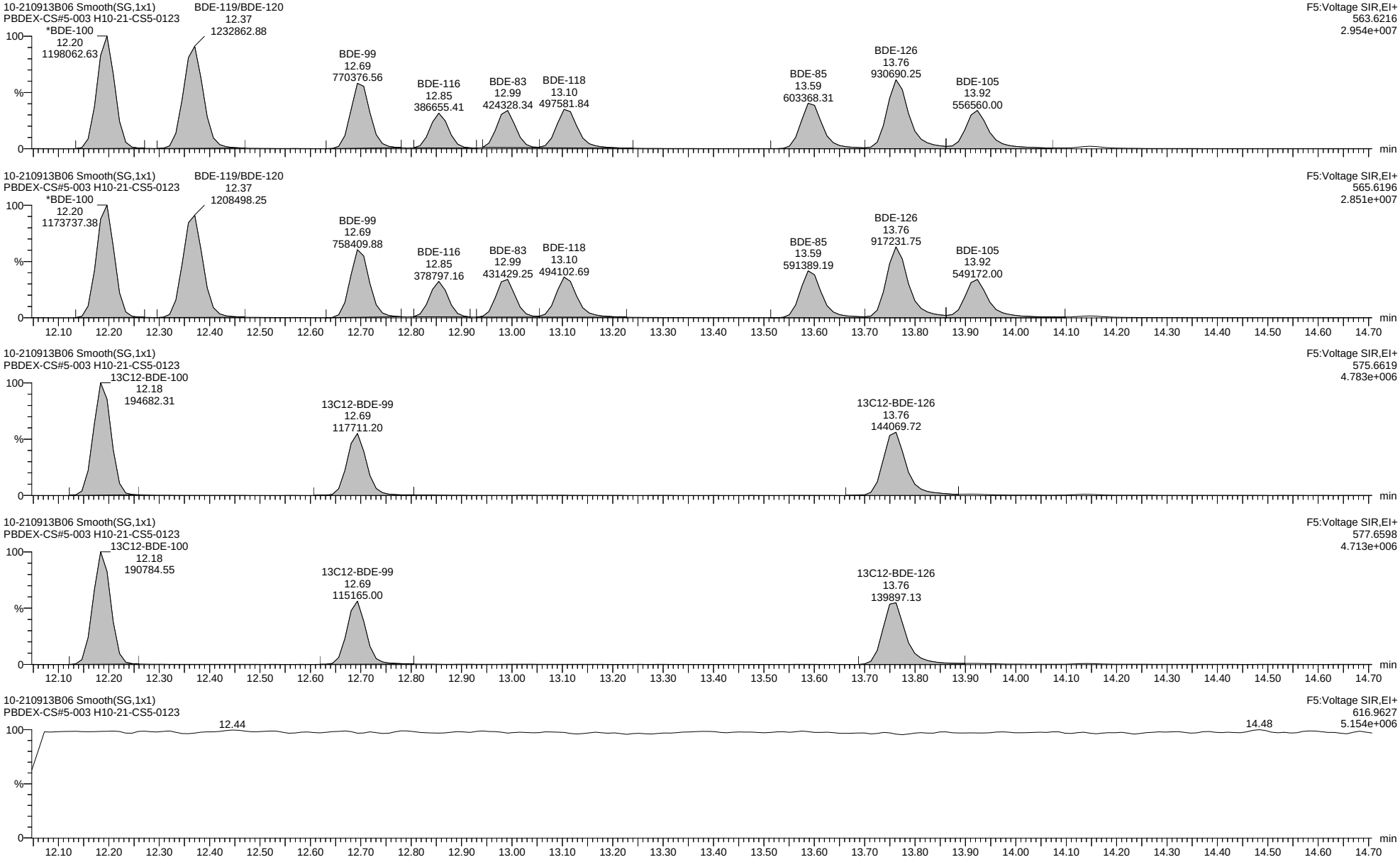

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Printed: Friday, September 17, 2021 10:50:04 Eastern Daylight Time

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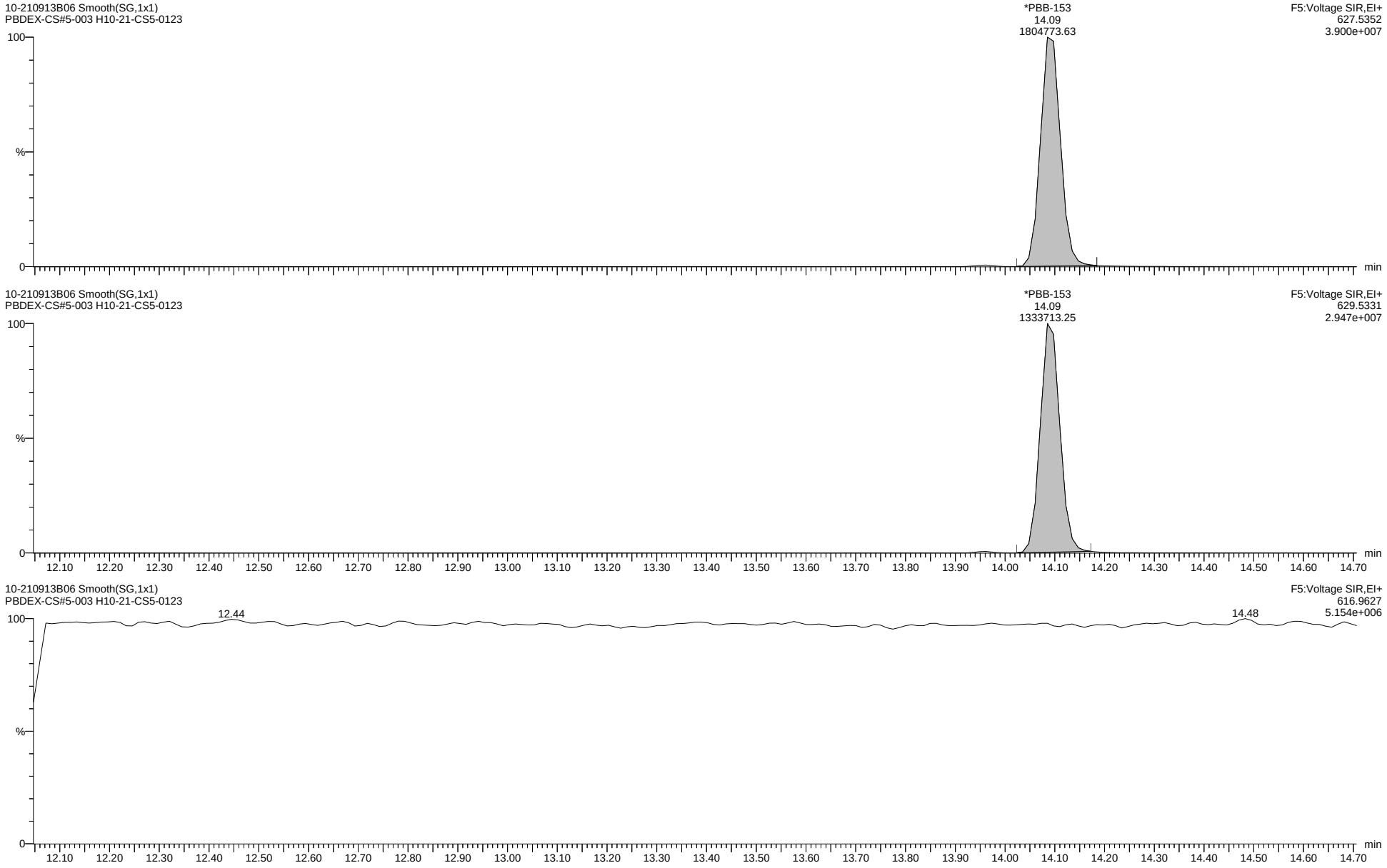
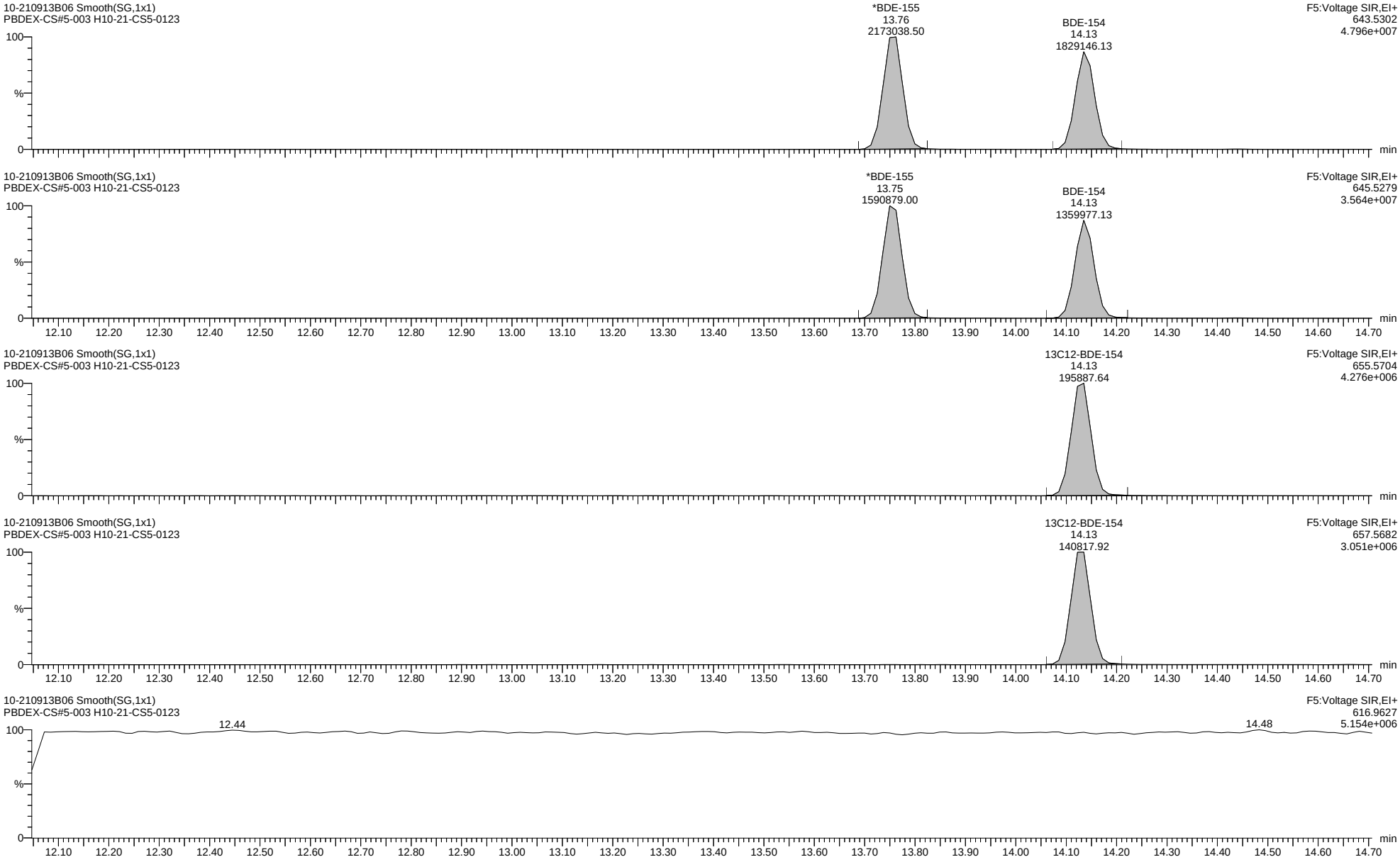


Name: 10-210913B06, Date: 13-Sep-2021, Time: 20:07:08, ID: H10-21-CS5-0123, Description: PBDEX-CS#5-003, Vial: Tray1:5



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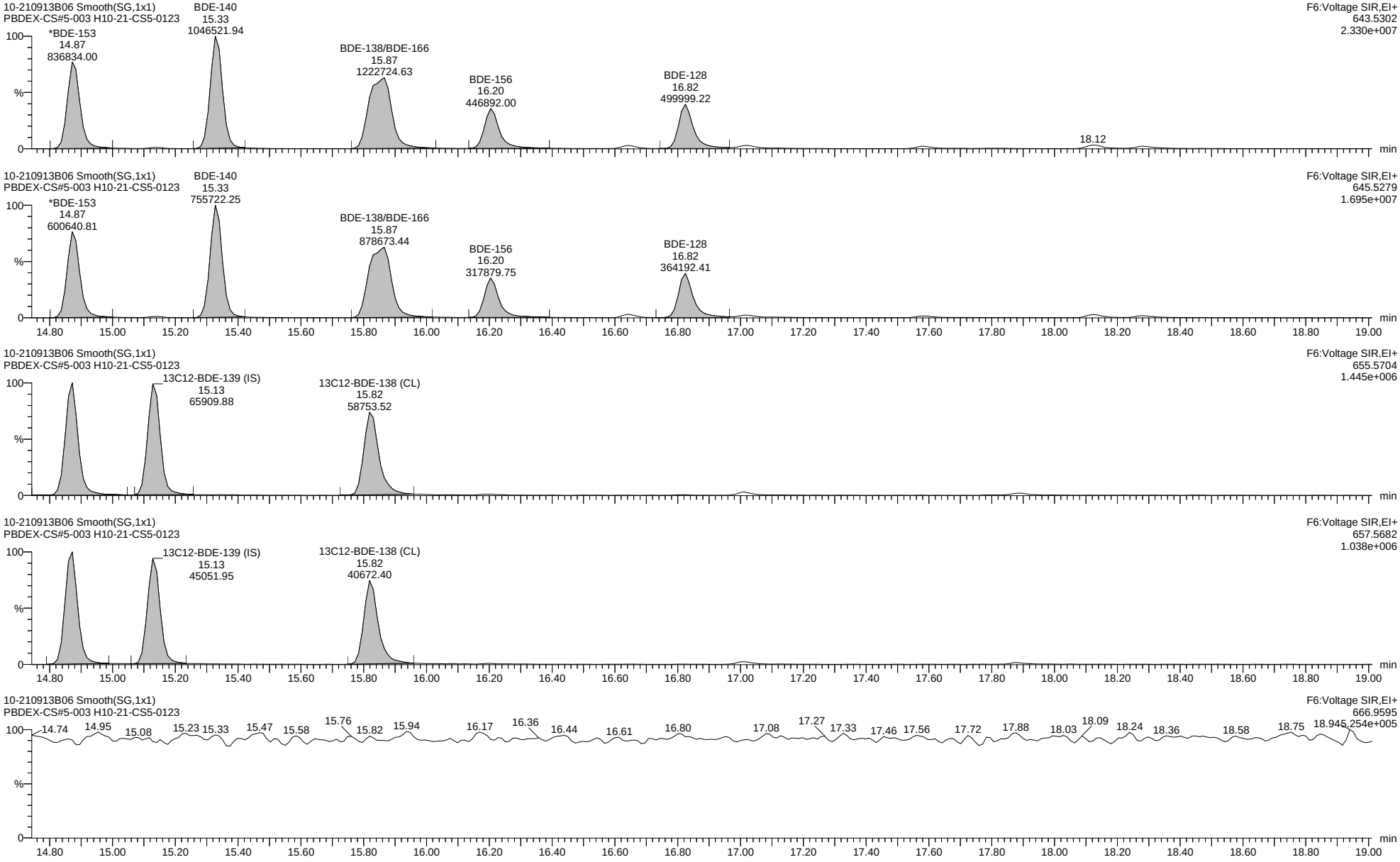

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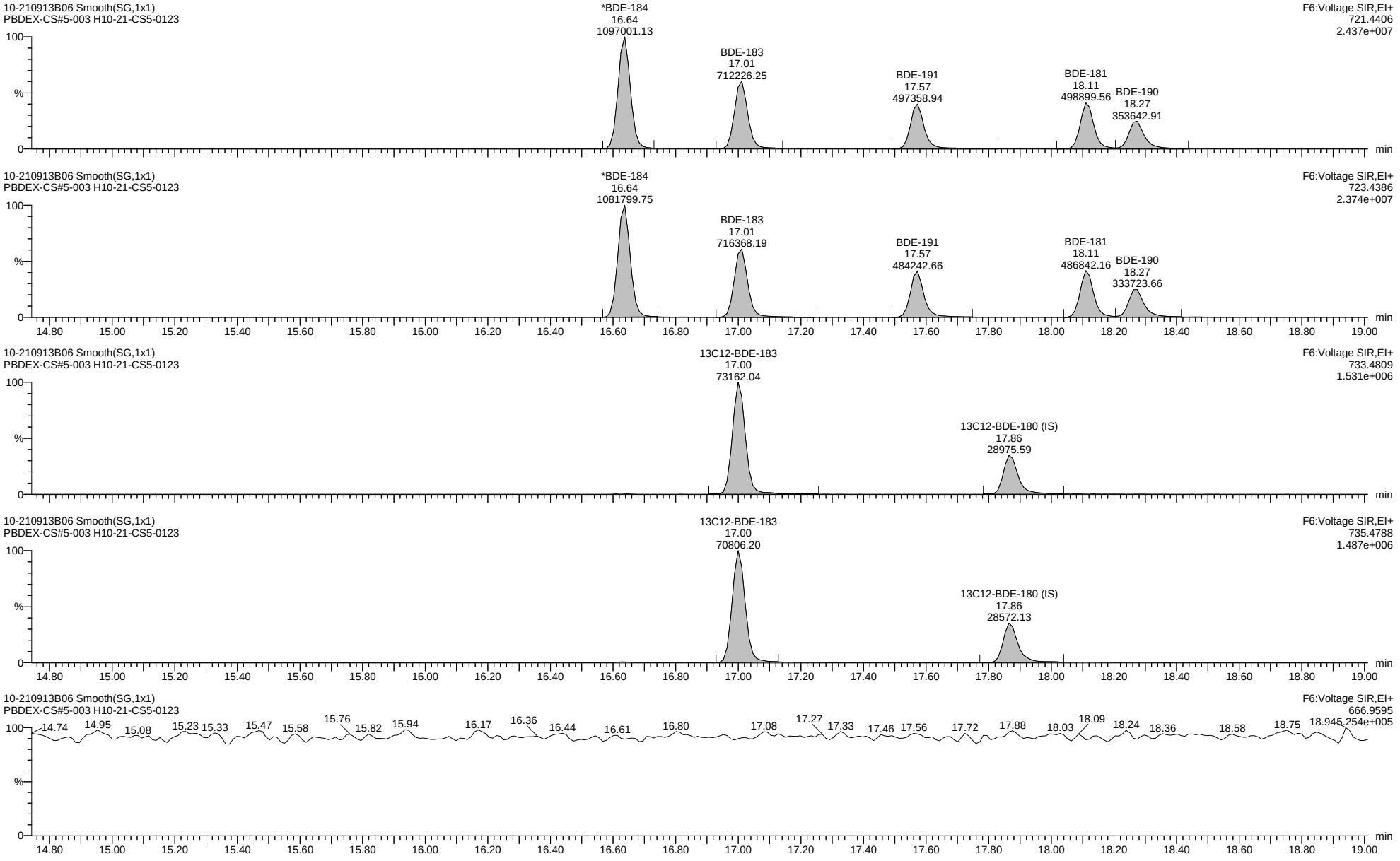
Printed: Friday, September 17, 2021 10:50:04 Eastern Daylight Time

Name: 10-210913B06, Date: 13-Sep-2021, Time: 20:07:08, ID: H10-21-CS5-0123, Description: PBDEX-CS#5-003, Vial: Tray1:5



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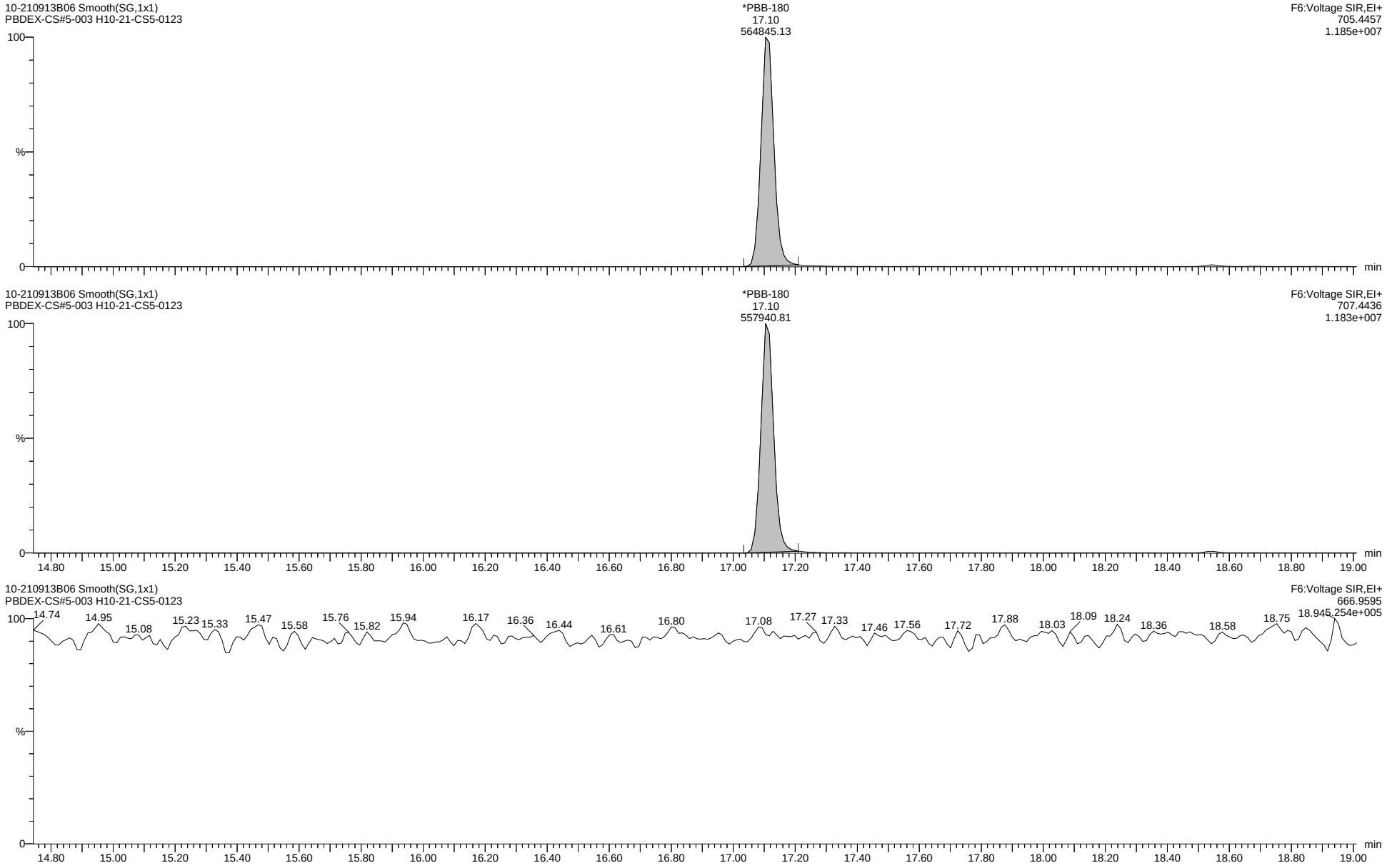
Last Altered: Tuesday, September 14, 2021 11:07:06 Eastern Daylight Time
Printed: Friday, September 17, 2021 10:50:04 Eastern Daylight Time

Name: 10-210913B06, Date: 13-Sep-2021, Time: 20:07:08, ID: H10-21-CS5-0123, Description: PBDEX-CS#5-003, Vial: Tray1:5



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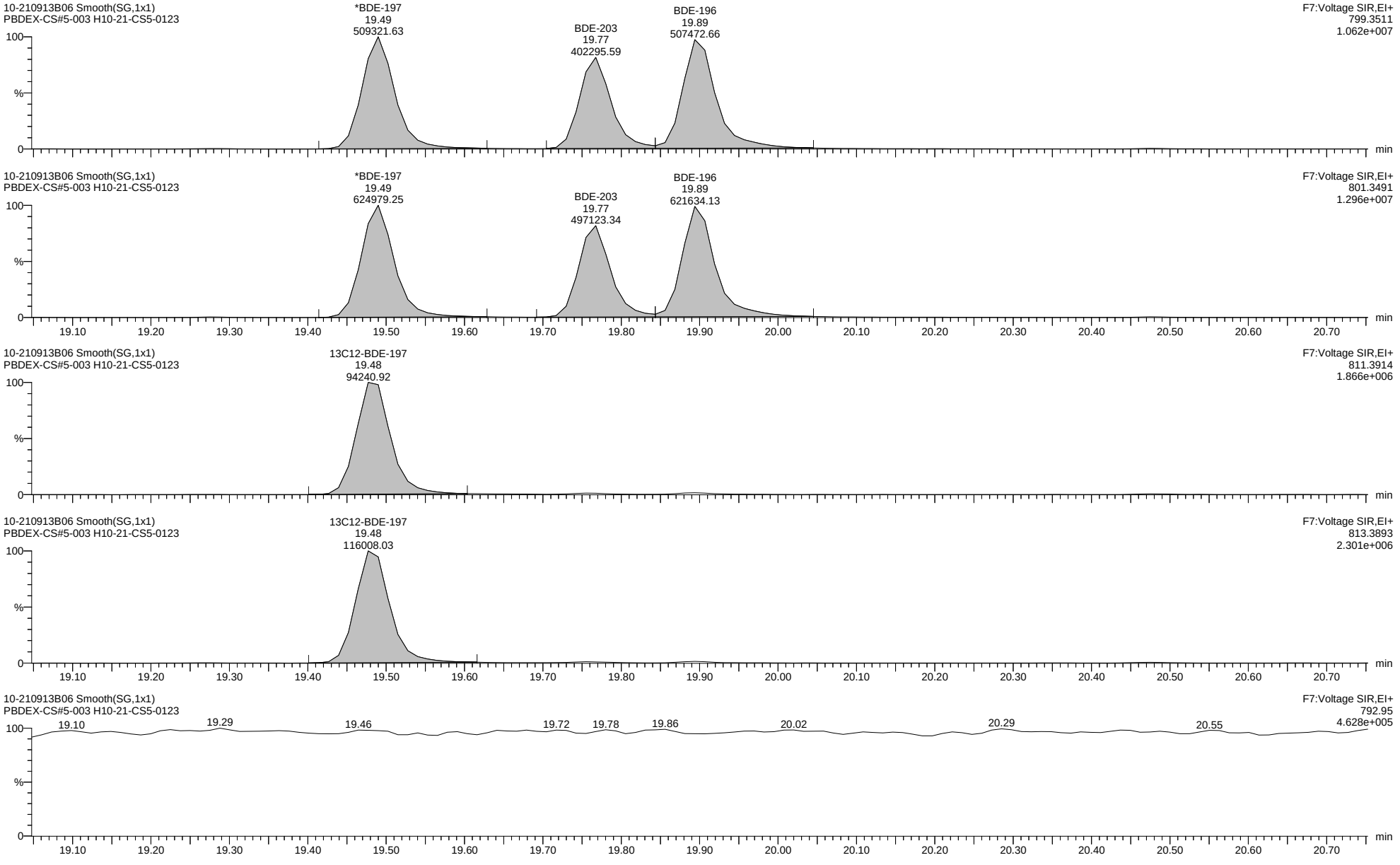

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Last Altered: Tuesday, September 14, 2021 11:07:06 Eastern Daylight Time
Printed: Friday, September 17, 2021 10:50:04 Eastern Daylight Time

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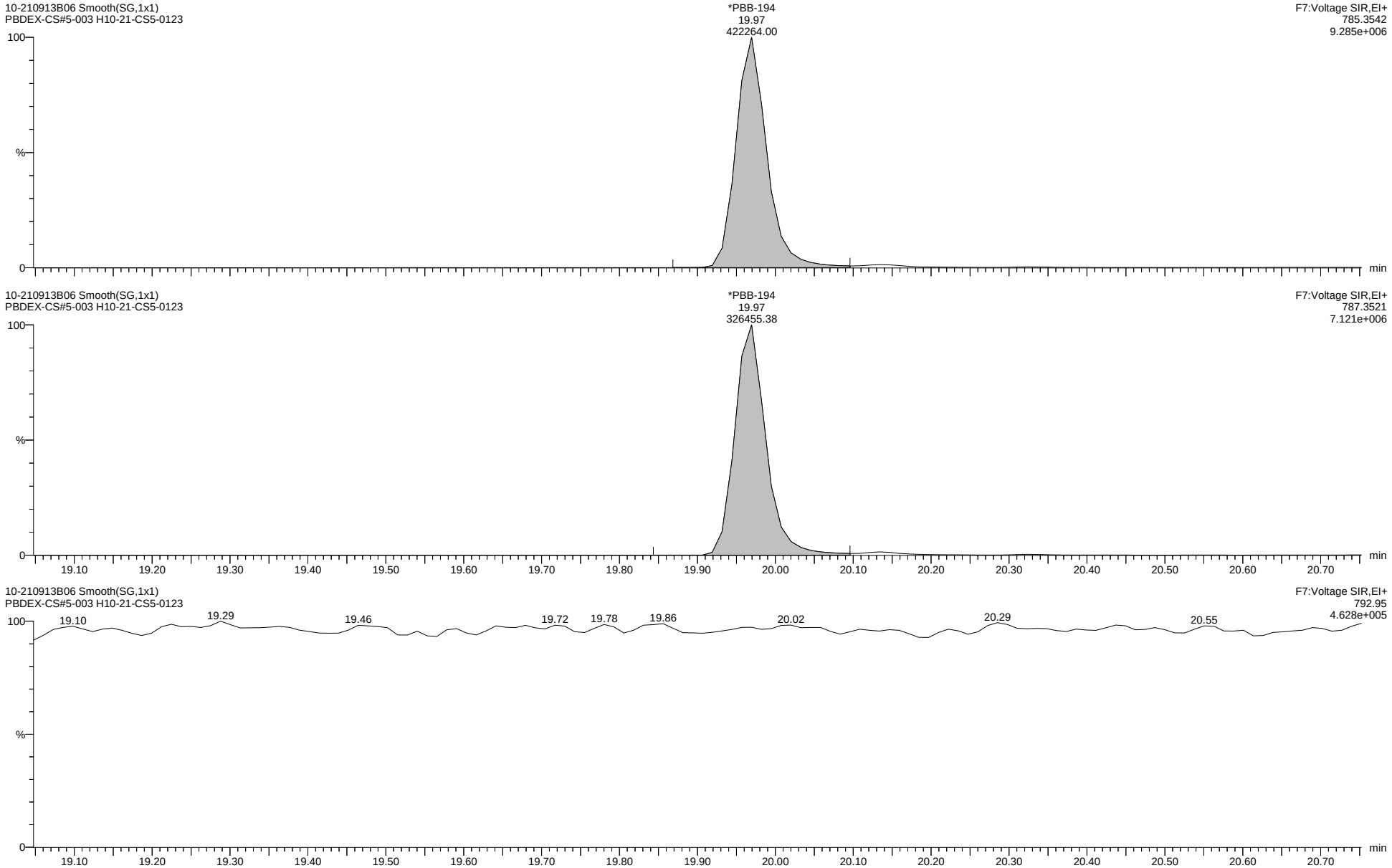

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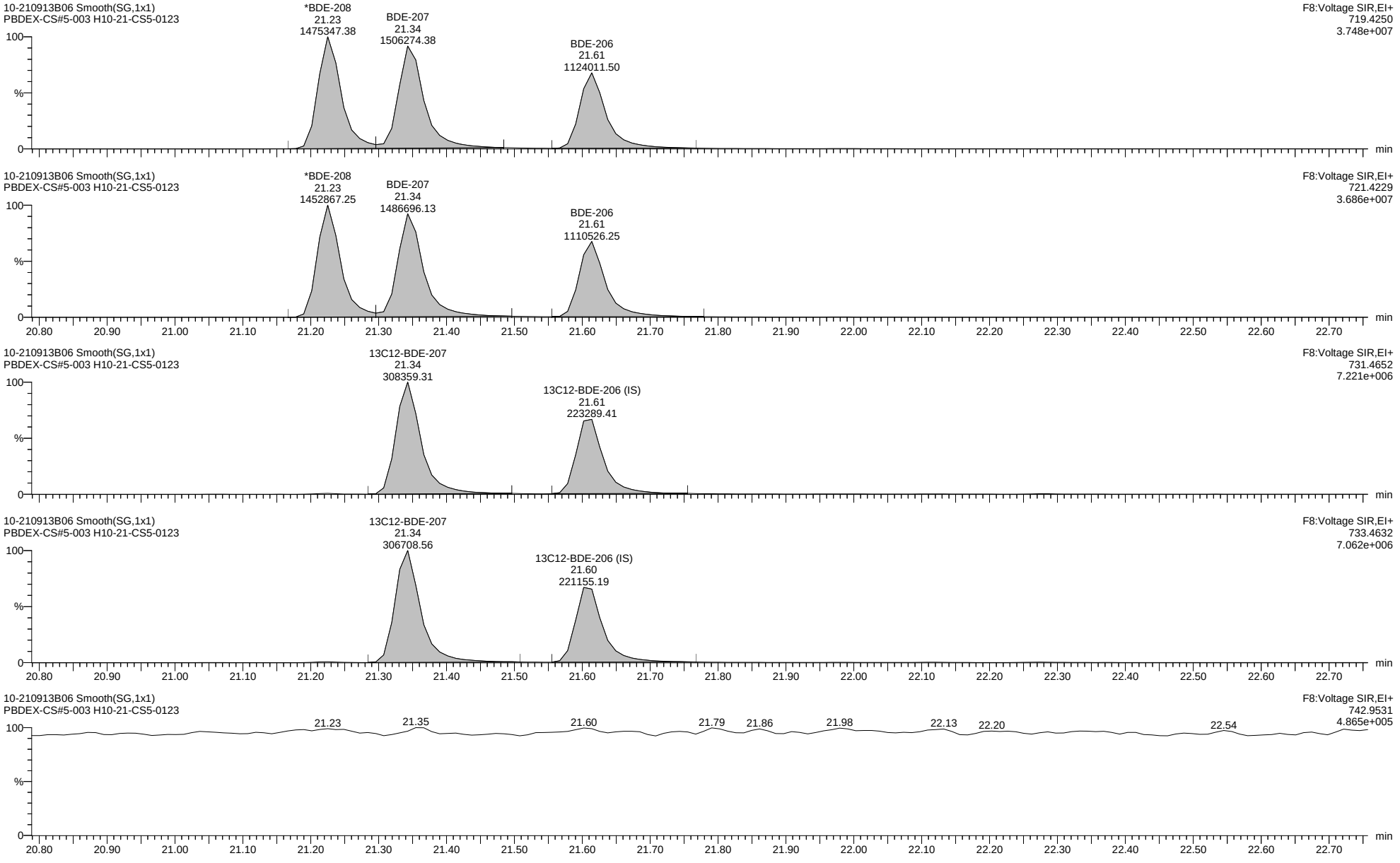

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Last Altered: Tuesday, September 14, 2021 11:07:06 Eastern Daylight Time
Printed: Friday, September 17, 2021 10:50:04 Eastern Daylight Time

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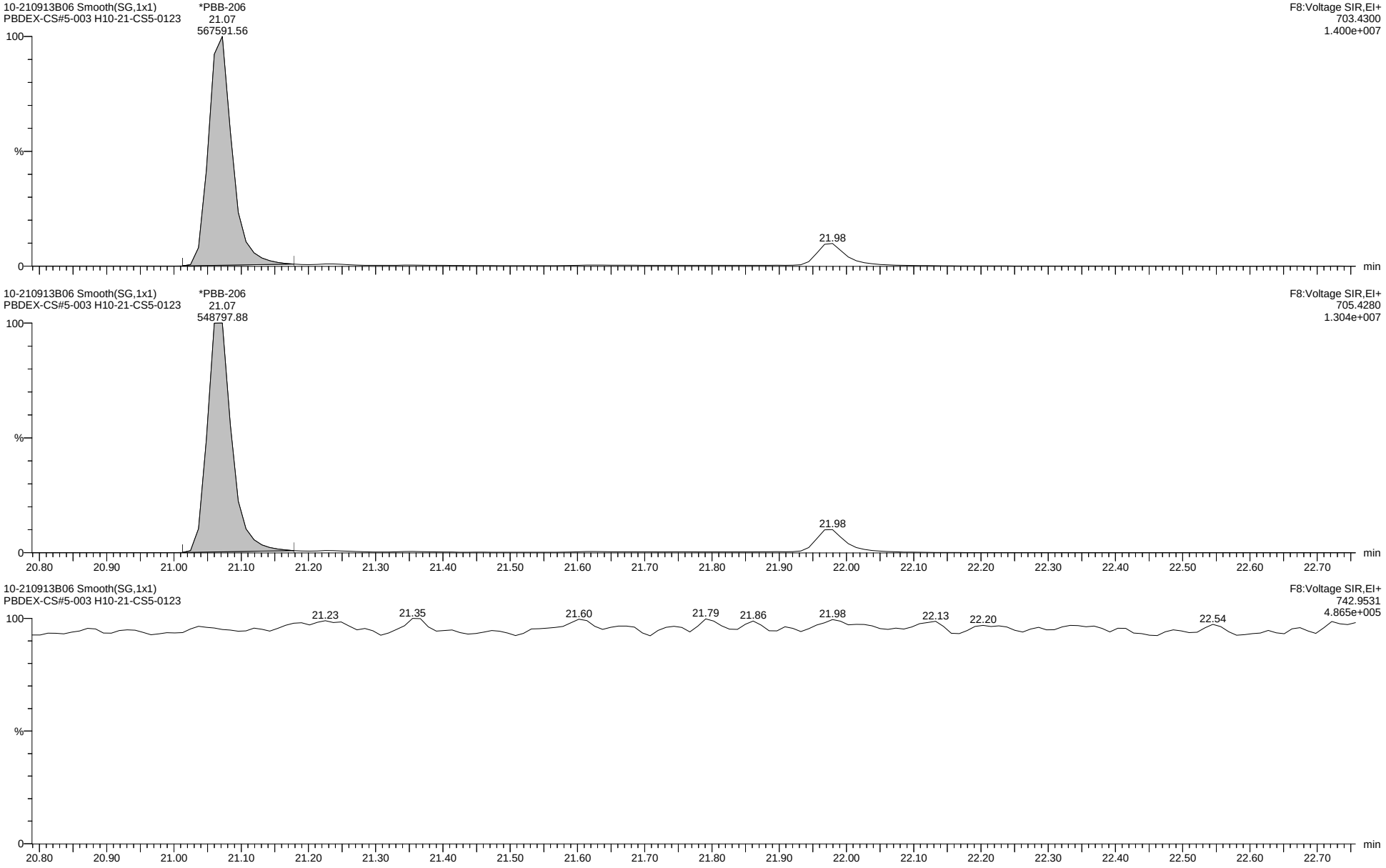

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Last Altered: Tuesday, September 14, 2021 11:07:06 Eastern Daylight Time
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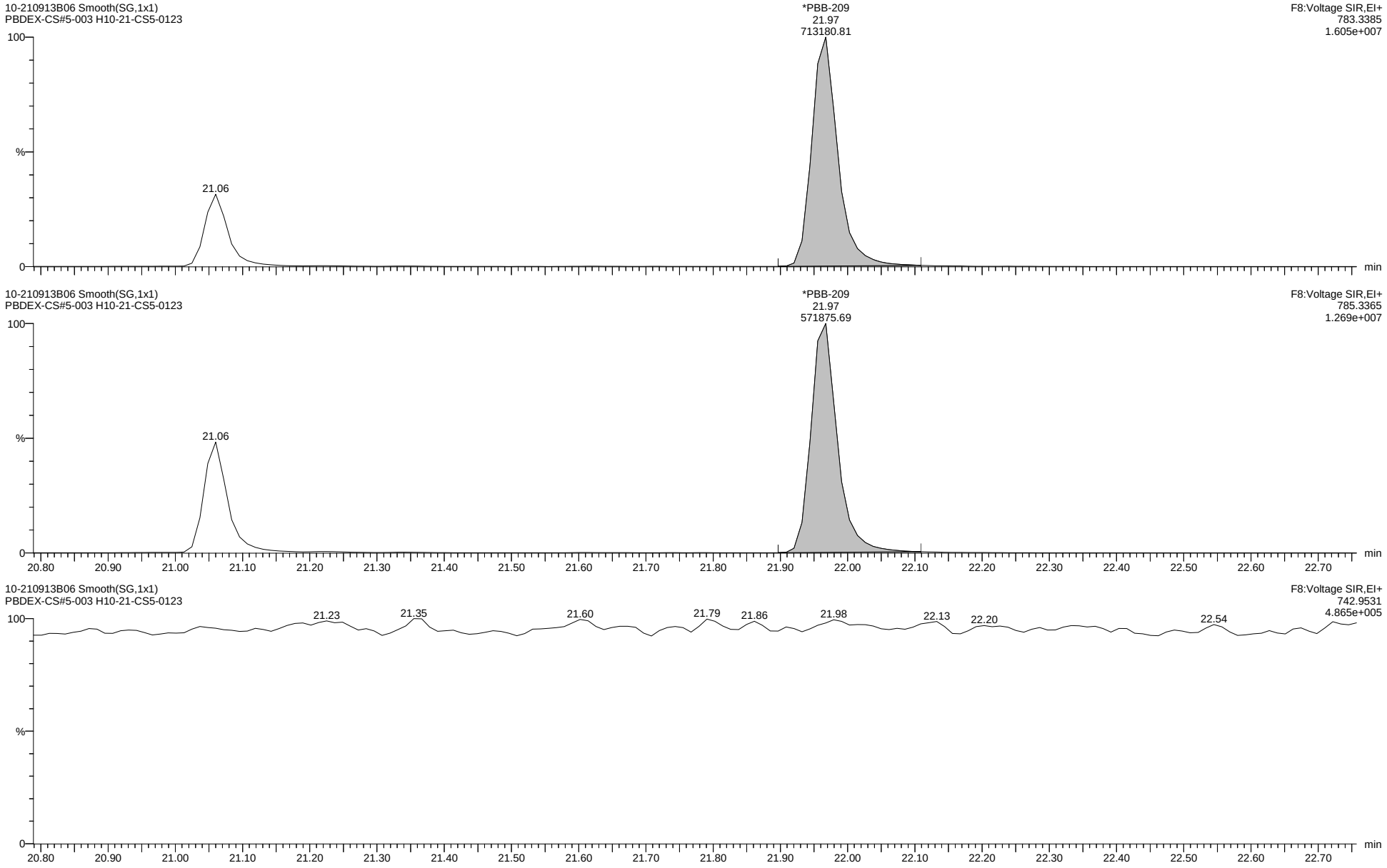
Name: 10-210913B06, Date: 13-Sep-2021, Time: 20:07:08, ID: H10-21-CS5-0123, Description: PBDEX-CS#5-003, Vial: Tray1:5



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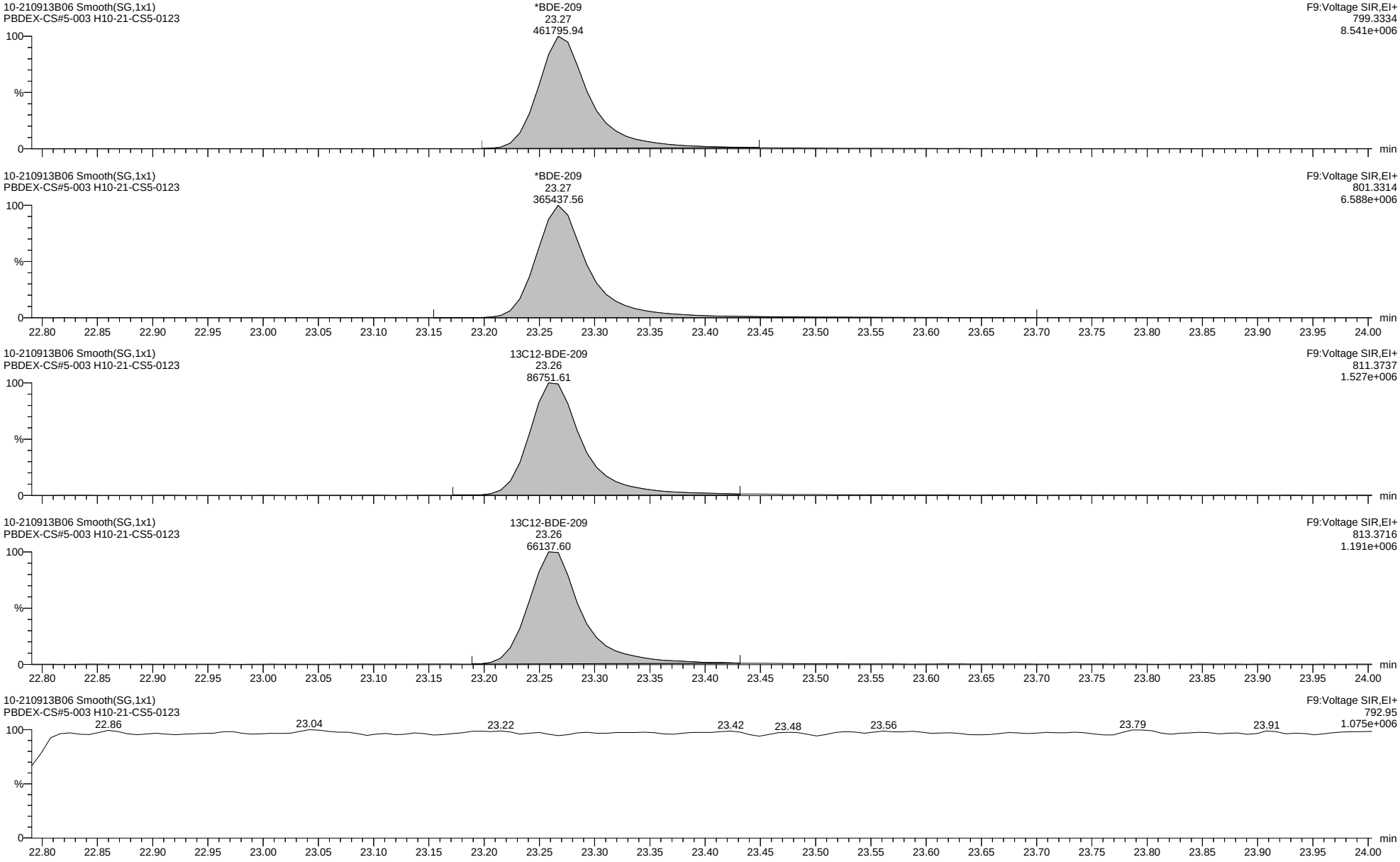

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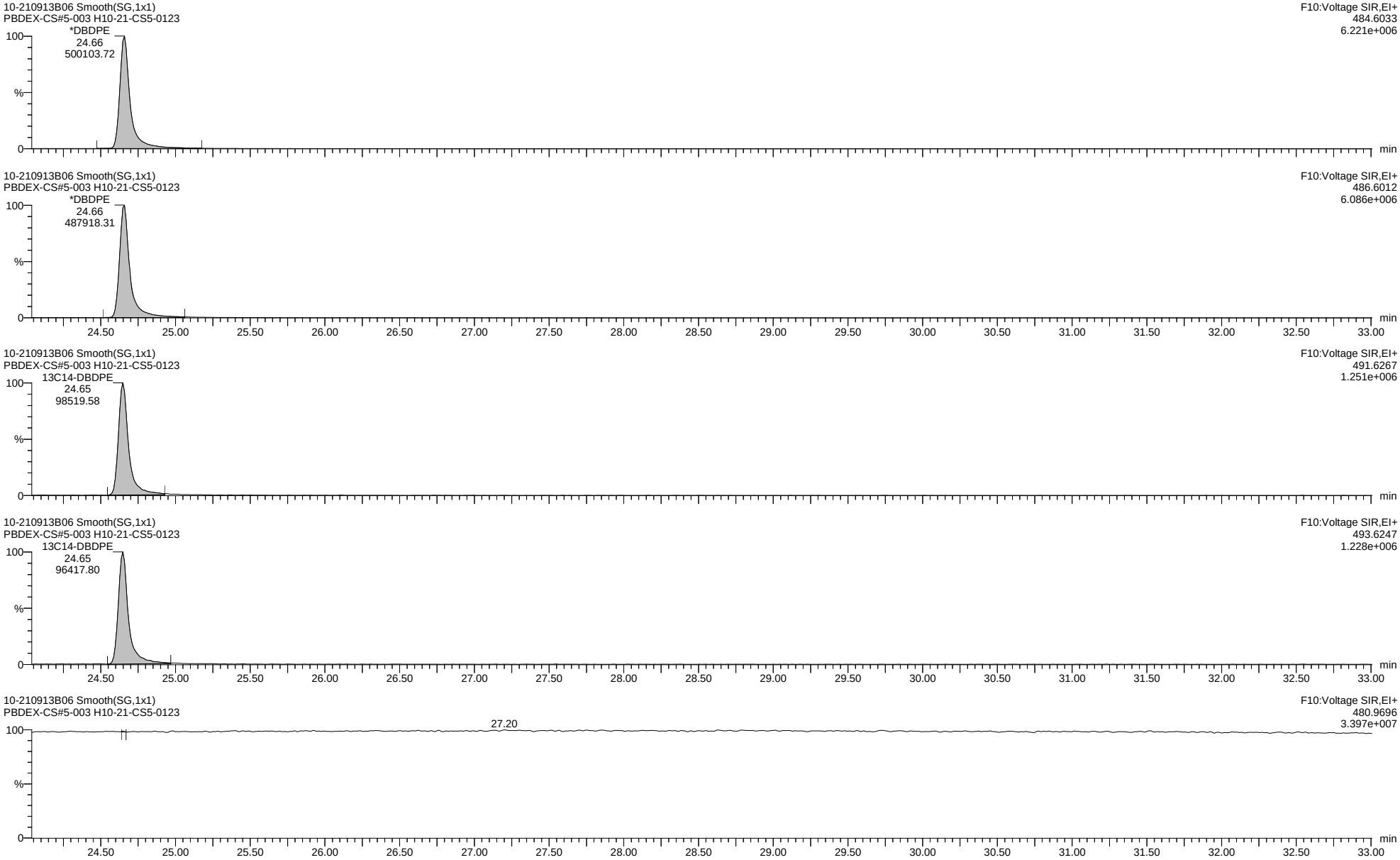

Quantify Sample Summary Report **MassLynx MassLynx V4.1 SCN 901**

Dataset: I:\Organics Instrument\HIGHRES GCMS Completed Results Files\HR-10\2021\2109\10-210913B-Q1-PBDE.qld

Last Altered: Thursday, September 16, 2021 14:59:12 Eastern Daylight Time
Printed: Friday, September 17, 2021 10:46:06 Eastern Daylight Time

Method: C:\MassLynx\PBDE.PRO\MethDB\PBDEX-DB5-1-210913B.mdb 14 Sep 2021 11:10:04
Calibration: C:\MassLynx\PBDE.PRO\CurveDB\10-210913B-ICAL-PBDE.cdb 14 Sep 2021 11:07:06

Name: 10-210913B19, Date: 14-Sep-2021, Time: 03:40:24, ID: H10-21-CCV-0123, Description: PBDEX-CS#3-20, Vial: Tray1:1

	Target Analyte	#Hom	Total Area	Ion1 Area	Ion2 Area	Ra	Ra Fail=YES	RT	RRT	RT LCL	RT UCL	Conc.	%Rec	Mod.Comment	Noise 1	Noise 2
1	*BDE-1		420129.125	222388	197742	1.12	NO	4.91	0.96	4.88	4.95	21.570254	107.9		29702	39447
2	BDE-2		616695.469	314259	302437	1.04	NO	5.01	0.98	4.97	5.04	21.549276	107.7		29702	39447
3	BDE-3		706914.001	358648	348266	1.03	NO	5.12	1.00	5.09	5.16	20.554906	102.8		29702	39447
4	*BDE-10		204393.539	67639	136755	0.49	NO	6.34	0.89	6.31	6.38	23.569205	117.8		1203	741
5	BDE-7		202643.437	66433	136211	0.49	NO	6.71	0.94	6.68	6.75	23.212804	116.1		1203	741
6	BDE-8/BDE-11		555868.172	185441	370427	0.50	NO	6.88	0.96	6.85	6.91	44.398420	111.0		1203	741
7	BDE-12/BDE-13		636608.110	211667	424942	0.50	NO	7.00	0.98	6.97	7.03	43.998352	110.0		1203	741
8	BDE-15		356125.813	118464	237662	0.50	NO	7.14	1.00	7.11	7.17	20.752876	103.8		1203	741
9	*BDE-30		125727.832	63095	62632	1.01	NO	7.84	0.90	7.80	7.87	23.165166	115.8		2749	1196
10	BDE-32		169652.234	84978	84674	1.00	NO	8.28	0.95	8.25	8.32	22.835967	114.2		2749	1196
11	BDE-17/BDE-25		253375.985	126706	126670	1.00	NO	8.45	0.97	8.42	8.48	44.464105	111.2		2749	1196
12	BDE-28/BDE-33		253245.727	127258	125988	1.01	NO	8.68	1.00	8.65	8.72	42.686741	106.7		2749	1196
13	BDE-35		183890.711	94478	89413	1.06	NO	8.83	1.02	8.79	8.86	22.451045	112.3		2749	1196
14	BDE-37		177729.390	87643	90087	0.97	NO	9.02	1.04	8.98	9.05	21.690314	108.5		2749	1196
15	*PBEB		172363.133	87370	84994	1.03	NO	9.03	0.90	8.99	9.06	24.696924	123.5		662	550
16	*PBB-52		167179.563	100935	66245	1.52	NO	9.14	0.91	9.10	9.17	23.711194	118.6		901	646
17	*HBB		121666.004	34514	87152	0.40	NO	10.01	1.00	9.98	10.04	20.806367	104.0		462	709
18	*BDE-75		103881.996	41089	62793	0.65	NO	10.07	0.95	10.04	10.10	21.055375	105.3		941	1830
19	BDE-51		123335.071	48715	74620	0.65	NO	10.15	0.96	10.11	10.18	21.072738	105.4		941	1830
20	BDE-49		79172.453	31382	47790	0.66	NO	10.23	0.97	10.20	10.27	21.234170	106.2		941	1830
21	BDE-71		85122.121	34181	50941	0.67	NO	10.31	0.98	10.27	10.34	22.218120	111.1		941	1830
22	BDE-47		105558.488	41870	63689	0.66	NO	10.57	1.00	10.53	10.60	20.418779	102.1		941	1830
23	BDE-79		117658.000	46745	70913	0.66	NO	10.73	1.02	10.70	10.76	20.174886	100.9		941	1830
24	BDE-66		70806.959	28127	42680	0.66	NO	10.85	1.03	10.82	10.89	20.676233	103.4		941	1830
25	BDE-77		106630.809	43647	62984	0.69	NO	11.33	1.00	11.29	11.36	20.201241	101.0		941	1830
26	*PBB-101		265863.641	134716	131148	1.03	NO	11.48	1.01	11.44	11.51	38.363234	95.9		863	647
27	*BDE-100		144423.422	72078	72346	1.00	NO	12.21	1.00	12.18	12.24	31.384200	104.6		1132	975
28	BDE-119/BDE-120		133927.368	67559	66368	1.02	NO	12.38	1.02	12.35	12.42	62.446680	104.1		1132	975
29	BDE-99		91341.511	45638	45704	1.00	NO	12.71	1.00	12.67	12.74	31.055810	103.5		1132	975
30	BDE-116		42251.892	20590	21661	0.95	NO	12.87	1.01	12.83	12.90	30.255928	100.9		1132	975
31	BDE-83		49055.217	24377	24678	0.99	NO	13.00	1.02	12.97	13.04	31.159314	103.9		1132	975
32	BDE-118		56998.209	28275	28723	0.98	NO	13.12	1.03	13.08	13.15	31.777876	105.9		1132	975
33	BDE-85		68906.504	35288	33619	1.05	NO	13.60	0.99	13.57	13.63	33.255168	110.9		1132	975
34	BDE-126		103388.586	52212	51177	1.02	NO	13.77	1.00	13.74	13.81	33.043349	110.1		1132	975

Quantify Sample Summary Report **MassLynx MassLynx V4.1 SCN 901**

Dataset: I:\Organics Instrument\HIGHRES GCMS Completed Results Files\HR-10\2021\2109\10-210913B-Q1-PBDE.qld

Last Altered: Thursday, September 16, 2021 14:59:12 Eastern Daylight Time
Printed: Friday, September 17, 2021 10:46:06 Eastern Daylight Time

Name: 10-210913B19, Date: 14-Sep-2021, Time: 03:40:24, ID: H10-21-CCV-0123, Description: PBDEX-CS#3-20, Vial: Tray1:1

	Target Analyte	#Hom	Total Area	Ion1 Area	Ion2 Area	Ra	Ra Fail=YES	RT	RRT	RT LCL	RT UCL	Conc.	%Rec	Mod.Comment	Noise 1	Noise 2
35	BDE-105		57617.439	29904	27714	1.08	NO	13.94	1.01	13.90	13.97	31.811028	106.0		1132	975
36	*PBB-153		168099.531	96319	71781	1.34	NO	14.10	1.00	14.06	14.13	42.122161	105.3		669	916
37	*BDE-155		207641.687	120448	87194	1.38	NO	13.76	0.97	13.73	13.80	41.939598	104.8		988	462
38	BDE-154		171171.618	98820	72351	1.37	NO	14.15	1.00	14.11	14.18	41.376021	103.4		988	462
39	*BDE-153		78828.622	46151	32678	1.41	NO	14.88	1.00	14.85	14.92	40.971965	102.4		1701	2116
40	BDE-140		100597.965	58473	42125	1.39	NO	15.34	1.01	15.31	15.37	45.047423	112.6		1701	2116
41	BDE-138/BDE-166		105230.742	61493	43738	1.41	NO	15.84	1.07	15.81	15.88	85.475412	106.8		1701	2116
42	BDE-156		37169.107	21986	15183	1.45	NO	16.22	1.09	16.18	16.25	46.704096	116.8		1701	2116
43	BDE-128		44254.015	26164	18090	1.45	NO	16.84	0.99	16.80	16.87	48.652538	121.6		1701	2116
44	*BDE-184		108496.508	55069	53427	1.03	NO	16.65	0.98	16.62	16.68	51.789236	103.6		622	1295
45	BDE-183		70242.680	35948	34294	1.05	NO	17.01	1.00	16.98	17.04	49.835695	99.7		622	1295
46	BDE-191		46779.900	23998	22782	1.05	NO	17.57	1.03	17.54	17.61	53.711208	107.4		622	1295
47	BDE-181		47340.711	23684	23657	1.00	NO	18.12	1.01	18.09	18.16	53.641887	107.3		622	1295
48	BDE-190		30711.920	15494	15218	1.02	NO	18.27	1.02	18.24	18.31	51.510404	103.0		622	1295
49	*PBB-180		52343.963	26870	25474	1.05	NO	17.12	0.96	17.08	17.15	40.114114	100.3		660	405
50	*BDE-197		64238.368	28594	35644	0.80	NO	19.49	1.00	19.46	19.52	49.994303	100.0		469	936
51	BDE-203		48975.125	22017	26958	0.82	NO	19.77	1.01	19.73	19.80	52.384756	104.8		469	936
52	BDE-196		55082.180	24634	30448	0.81	NO	19.91	1.02	19.87	19.94	51.364464	102.7		469	936
53	*PBB-194		33630.060	19059	14571	1.31	NO	19.97	1.02	19.94	20.00	40.288867	100.7		322	320
54	*BDE-208		130771.125	66549	64222	1.04	NO	21.23	0.99	21.19	21.26	113.52415	113.5		1193	731
55	BDE-207		129239.590	65100	64139	1.01	NO	21.35	1.00	21.32	21.39	96.844333	96.8		1193	731
56	BDE-206		116932.024	58867	58066	1.01	NO	21.61	1.01	21.58	21.65	115.95015	116.0		1193	731
57	*PBB-206		50546.875	25556	24991	1.02	NO	21.07	0.99	21.04	21.11	110.46961	110.5		971	1178
58	*PBB-209		62561.405	34602	27959	1.24	NO	21.97	1.03	21.93	22.00	119.60834	119.6		768	717
59	*BDE-209		49288.117	27990	21298	1.31	NO	23.28	1.00	23.24	23.31	99.568768	99.6		462	364
60	*DBDPE		103553.082	52698	50855	1.04	NO	24.66	1.00	24.63	24.69	202.97444	101.5		296	410
61	13C12-BDE-3		2159010.6...	1062882	1096129	0.97	NO	5.11	0.48	5.08	5.15	60.385351	120.8		1090	2425
62	13C12-BDE-15		1012104.5...	335735	676369	0.50	NO	7.14	0.67	7.11	7.17	51.891789	103.8		2341	5908
63	13C12-BDE-28		443652.031	223016	220636	1.01	NO	8.68	0.81	8.65	8.72	49.955796	99.9		1987	1315
64	13C6-HBB		279166.133	203037	76129	2.67	NO	10.01	0.93	9.98	10.04	43.670408	87.3		1060	759
65	13C12-BDE-47		307988.336	187133	120855	1.55	NO	10.57	0.98	10.53	10.60	49.999210	100.0		2153	1079
66	13C12-BDE-77		333355.985	201093	132263	1.52	NO	11.33	1.06	11.29	11.36	51.363698	102.7		2153	1079
67	13C12-BDE-100		301631.953	152462	149170	1.02	NO	12.20	0.81	12.16	12.23	46.573769	93.1		1263	1250
68	13C12-BDE-99		178495.844	90601	87895	1.03	NO	12.71	0.84	12.67	12.74	47.003733	94.0		1263	1250
69	13C12-BDE-126		199753.578	100976	98777	1.02	NO	13.76	0.91	13.73	13.80	46.747869	93.5		1263	1250
70	13C12-BDE-154		226097.437	130642	95456	1.37	NO	14.13	0.93	14.10	14.17	43.209124	86.4		915	775
71	13C12-BDE-153		82978.063	49353	33625	1.47	NO	14.87	0.98	14.84	14.91	46.889260	93.8		1190	975

Quantify Sample Summary Report **MassLynx MassLynx V4.1 SCN 901**

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Last Altered: Thursday, September 16, 2021 14:59:12 Eastern Daylight Time
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Name: 10-210913B19, Date: 14-Sep-2021, Time: 03:40:24, ID: H10-21-CCV-0123, Description: PBDEX-CS#3-20, Vial: Tray1:1

	Target Analyte	#Hom	Total Area	Ion1 Area	Ion2 Area	Ra	Ra Fail=YES	RT	RRT	RT LCL	RT UCL	Conc.	%Rec	Mod.Comment	Noise 1	Noise 2
72	13C12-BDE-183		94361.957	47614	46748	1.02	NO	17.01	0.95	16.98	17.04	41.461991	82.9		475	539
73	13C12-BDE-197		163342.734	72648	90695	0.80	NO	19.49	1.09	19.46	19.52	93.013746	93.0		493	534
74	13C12-BDE-207		366903.188	184761	182142	1.01	NO	21.34	0.99	21.31	21.38	222.54575	89.0		1281	1046
75	13C12-BDE-209		128168.539	71691	56478	1.27	NO	23.27	1.08	23.23	23.30	301.53406	120.6		876	873
76	13C14-DBDPE		286395.938	143606	142790	1.01	NO	24.65	1.14	24.61	24.68	903.10200	180.6		601	1019
77	13C12-BDE-138 (CL)		73789.256	43892	29897	1.47	NO	15.83	1.05	15.80	15.86	49.518992	99.0		1190	975
78	13C12-BDE-79 (IS)		353673.985	215601	138073	1.56	NO	10.73	0.71	10.70	10.76	40.540839	81.1		2153	1079
79	13C12-BDE-139 (IS)		104070.067	61854	42216	1.47	NO	15.14	0.00	15.11	15.17	41.296079	82.6		1190	975
80	13C12-BDE-180 (IS)		53839.702	26896	26943	1.00	NO	17.88	1.18	17.84	17.91	45.810930	91.6		475	539
81	13C12-BDE-206 (IS)		310355.688	156001	154355	1.01	NO	21.61	1.43	21.58	21.65	214.96008	86.0		1281	1046
82	Total MoF1	3		895294								63.674436			29702	
83	Total DiF2	5		649643								155.93166			1203	
84	Total TriF3	6		584159								177.29334			2749	
85	Total PBEBF3	1		87370								24.696924			662	
86	Total TePBBF3	1		100935								23.711194			901	
87	Total HBBF4	1		34514								20.806367			462	
88	Total TetraF4	8		315757								167.05154			941	
89	Total PePBBF4	1		134716								38.363234			863	
90	Total PentaF5	9		375921								316.18935			1132	
91	Total PBB-153	1		96319								42.122161			669	
92	Total HexaF5	2		219268								83.315619			988	
93	Total HexaF6	5		214266								266.85143			1701	
94	Total HeptaF6	5		154193								260.48843			622	
95	Total PBB-180	1		26870								40.114114			660	
96	Total OctaF7	3		75245								153.74352			469	
97	Total PBB-194	1		19059								40.288867			322	
98	Total NonaF8	3		190516								326.31863			1193	
99	Total PBB-206	1		25556								110.46961			971	
100	Total PBB-209	1		34602								119.60834			768	
101	Total DecaF9	1		27990								99.568768			462	
102	Total DBDPEF10															
103	Total 13CMoF1	1		1062882								60.385351			1090	
104	Total 13CDiF2	1		335735								51.891789			2341	
105	Total 13CTriF3	1		223016								49.955796			1987	
106	Total 13CHBBF4	1		203037								43.670408			1060	
107	Total 13CTetraF4	3		603827								141.90375			2153	
108	Total 13CPentaF5	3		344039								140.32537			1263	

Quantify Sample Summary Report **MassLynx MassLynx V4.1 SCN 901**

Dataset: I:\Organics Instrument\HIGHRES GCMS Completed Results Files\HR-10\2021\2109\10-210913B-Q1-PBDE.qld

Last Altered: Thursday, September 16, 2021 14:59:12 Eastern Daylight Time
Printed: Friday, September 17, 2021 10:46:06 Eastern Daylight Time

Name: 10-210913B19, Date: 14-Sep-2021, Time: 03:40:24, ID: H10-21-CCV-0123, Description: PBDEX-CS#3-20, Vial: Tray1:1

	Target Analyte	#Hom	Total Area	Ion1 Area	Ion2 Area	Ra	Ra Fail=YES	RT	RRT	RT LCL	RT UCL	Conc.	%Rec	Mod.Comment	Noise 1	Noise 2
109	Total 13CHexaF5	1		130642								43.209124			915	
110	Total 13CHexaF6	3		155100								137.70433			1190	
111	Total 13CHeptaF6	2		74510								87.272920			475	
112	Total 13COctaF7	1		72648								93.013746			493	
113	Total 13CNonaF8	2		340761								437.50583			1281	
114	Total 13CDecaF9	1		71691								301.53406			876	
115	Total 13CDBDPEF10															
116	Lockmass F1			0											336561	
117	Lockmass F2			0											599296	
118	Lockmass F3			0											336430	
119	Lockmass F4			0											95663	
120	Lockmass F5			0											71158	
121	Lockmass F6			0											28751	
122	Lockmass F7			0											14564	
123	Lockmass F8			0											15638	
124	Lockmass F9			0											27557	
125	Lockmass F10															

Quantify Audit Report MassLynx MassLynx V4.1 SCN 901

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Last Altered: Thursday, September 16, 2021 14:59:12 Eastern Daylight Time
Printed: Friday, September 17, 2021 10:46:06 Eastern Daylight Time

Date	Time	Event	Details	Comments
15-Sep-21	14:22:19	Method modified		
15-Sep-21	14:22:26	Process Quantify		
15-Sep-21	14:22:31	Dataset Saved	Saved to 'I:\Organics Instrument\HIGHRES GCMS Complete...	
16-Sep-21	14:43:02	Peak modified	Sample:10-210913B26, Compound:TetraF4, RT:10.730	EG210916MA
16-Sep-21	14:43:02	Peak modified	Sample:10-210913B26, Compound:TetraF4, RT:10.730	EG210916MA
16-Sep-21	14:56:30	Peak modified	Sample:10-210913B26, Compound:TetraF4, RT:10.730	S
16-Sep-21	14:56:30	Peak added	Sample:10-210913B26, Compound:TetraF4, RT:10.730	S
16-Sep-21	14:56:30	Peak modified	Sample:10-210913B26, Compound:TetraF4, RT:10.730	S
16-Sep-21	14:56:30	Peak added	Sample:10-210913B26, Compound:TetraF4, RT:10.730	S
16-Sep-21	14:58:01	Peak modified	Sample:10-210913B26, Compound:TetraF4, RT:10.730	S
16-Sep-21	14:58:01	Peak modified	Sample:10-210913B26, Compound:TetraF4, RT:10.606	S
16-Sep-21	14:58:01	Peak modified	Sample:10-210913B26, Compound:TetraF4, RT:10.730	S
16-Sep-21	14:58:01	Peak modified	Sample:10-210913B26, Compound:TetraF4, RT:10.606	S
16-Sep-21	14:58:01	Peak modified	Sample:10-210913B26, Compound:TetraF4, RT:10.730	S
16-Sep-21	14:58:32	Peak modified	Sample:10-210913B26, Compound:TetraF4, RT:10.742	S
16-Sep-21	14:58:32	Peak modified	Sample:10-210913B26, Compound:TetraF4, RT:10.730	S
16-Sep-21	14:58:32	Peak modified	Sample:10-210913B26, Compound:TetraF4, RT:10.742	S
16-Sep-21	14:58:32	Peak modified	Sample:10-210913B26, Compound:TetraF4, RT:10.730	S
16-Sep-21	14:59:02	Peak modified	Sample:10-210913B26, Compound:TetraF4, RT:10.742	EG210916MS
14-Sep-21	15:22:17	Process Extract		
14-Sep-21	15:22:18	Process Integrate		
14-Sep-21	15:22:19	Process Quantify		
14-Sep-21	15:22:20	Dataset Created		
14-Sep-21	15:29:48	Method modified		
14-Sep-21	15:29:55	Process Quantify		
14-Sep-21	15:30:55	Peak added	Sample:10-210913B24, Compound:13CNonaF8, RT:21.626	
14-Sep-21	15:30:55	Peak added	Sample:10-210913B24, Compound:13CNonaF8, RT:21.638	
14-Sep-21	15:32:09	Method modified		
14-Sep-21	15:32:15	Process Quantify		
14-Sep-21	15:32:36	Method modified		
14-Sep-21	15:32:42	Process Quantify		
14-Sep-21	15:35:44	Pre modification peak	Sample:10-210913B18, Compound:13CHeptaF6, RT:17.888	
14-Sep-21	15:35:44	Peak modified	Sample:10-210913B18, Compound:13CHeptaF6, RT:17.888	
14-Sep-21	15:35:44	Peak deleted	Sample:10-210913B18, Compound:13CHeptaF6, RT:17.970	
14-Sep-21	15:35:44	Pre modification peak	Sample:10-210913B18, Compound:13CHeptaF6, RT:18.262	
14-Sep-21	15:35:44	Peak modified	Sample:10-210913B18, Compound:13CHeptaF6, RT:18.262	
14-Sep-21	15:35:44	Peak added	Sample:10-210913B18, Compound:13CHeptaF6, RT:18.262	
14-Sep-21	15:36:21	Peak added	Sample:10-210913B26, Compound:13CHeptaF6, RT:18.017	
14-Sep-21	15:36:21	Peak added	Sample:10-210913B26, Compound:13CHeptaF6, RT:18.028	
14-Sep-21	15:36:52	Peak modified	Sample:10-210913B26, Compound:13CHeptaF6, RT:18.017	
14-Sep-21	15:36:52	Peak modified	Sample:10-210913B26, Compound:13CHeptaF6, RT:18.028	
14-Sep-21	15:37:11	Peak added	Sample:10-210913B26, Compound:13COctaF7, RT:19.654	EG210914MA
14-Sep-21	15:37:42	Method modified		
14-Sep-21	15:37:49	Process Quantify		
14-Sep-21	15:41:15	Peak added	Sample:10-210913B27, Compound:13CNonaF8, RT:21.614	EG210914MA
14-Sep-21	15:41:15	Peak added	Sample:10-210913B27, Compound:13CNonaF8, RT:21.367	EG210914MA
14-Sep-21	15:41:15	Peak added	Sample:10-210913B27, Compound:13CNonaF8, RT:21.614	EG210914MA
14-Sep-21	15:41:15	Peak added	Sample:10-210913B27, Compound:13CNonaF8, RT:21.343	EG210914MA
14-Sep-21	15:41:52	Peak modified	Sample:10-210913B27, Compound:13CNonaF8, RT:21.367	EG210914MA
14-Sep-21	15:41:52	Peak modified	Sample:10-210913B27, Compound:13CNonaF8, RT:21.614	EG210914MA
14-Sep-21	15:41:52	Peak modified	Sample:10-210913B27, Compound:13CNonaF8, RT:21.614	EG210914MA
14-Sep-21	15:42:26	Method modified		
14-Sep-21	15:42:33	Process Quantify		

Date	Time	Event	Details	Comments
14-Sep-21	15:43:09	Pre modification peak	Sample:10-210913B27, Compound:13CTetraF4, RT:10.581	
14-Sep-21	15:43:09	Peak modified	Sample:10-210913B27, Compound:13CTetraF4, RT:10.581	EG210914MB
14-Sep-21	15:43:29	Pre modification peak	Sample:10-210913B27, Compound:13CHexaF5, RT:14.172	
14-Sep-21	15:43:29	Peak modified	Sample:10-210913B27, Compound:13CHexaF5, RT:14.172	EG210914MB
14-Sep-21	15:43:53	Pre modification peak	Sample:10-210913B27, Compound:13CHexaF6, RT:14.895	
14-Sep-21	15:43:53	Peak modified	Sample:10-210913B27, Compound:13CHexaF6, RT:14.895	EG210914MB
14-Sep-21	15:43:53	Pre modification peak	Sample:10-210913B27, Compound:13CHexaF6, RT:15.164	
14-Sep-21	15:43:53	Peak modified	Sample:10-210913B27, Compound:13CHexaF6, RT:15.164	EG210914MB
14-Sep-21	15:44:25	Pre modification peak	Sample:10-210913B27, Compound:13CHeptaF6, RT:17.888	
14-Sep-21	15:44:25	Peak modified	Sample:10-210913B27, Compound:13CHeptaF6, RT:17.888	EG210914MB
14-Sep-21	15:44:45	Pre modification peak	Sample:10-210913B27, Compound:13CHexaF6, RT:15.842	
14-Sep-21	15:44:45	Peak modified	Sample:10-210913B27, Compound:13CHexaF6, RT:15.842	EG210914MB
14-Sep-21	15:46:01	Pre modification peak	Sample:10-210913B28, Compound:13CDBDPEF10, RT:24.669	
14-Sep-21	15:46:01	Peak modified	Sample:10-210913B28, Compound:13CDBDPEF10, RT:24.669	EG210914MB
14-Sep-21	15:46:53	Peak added	Sample:10-210913B32, Compound:13CDecaF9, RT:23.276	EG210914MA
14-Sep-21	15:46:53	Peak added	Sample:10-210913B32, Compound:13CDecaF9, RT:23.267	EG210914MA
14-Sep-21	15:54:07	Dataset Saved	Saved to 'I:\Organics Instrument\HIGHRES GCMS Complete...	
14-Sep-21	15:54:47	Pre modification peak	Sample:10-210913B32, Compound:13CPentaF5, RT:12.693	
14-Sep-21	15:54:47	Peak modified	Sample:10-210913B32, Compound:13CPentaF5, RT:12.693	EG210914MB
14-Sep-21	15:55:17	Pre modification peak	Sample:10-210913B32, Compound:13CPentaF5, RT:13.750	
14-Sep-21	15:55:17	Peak modified	Sample:10-210913B32, Compound:13CPentaF5, RT:13.750	EG210914MB
14-Sep-21	15:55:17	Pre modification peak	Sample:10-210913B32, Compound:13CPentaF5, RT:13.762	
14-Sep-21	15:55:17	Peak modified	Sample:10-210913B32, Compound:13CPentaF5, RT:13.762	EG210914MB
14-Sep-21	15:55:32	Pre modification peak	Sample:10-210913B32, Compound:13CHexaF6, RT:14.872	
14-Sep-21	15:55:32	Peak modified	Sample:10-210913B32, Compound:13CHexaF6, RT:14.872	EG210914MB
14-Sep-21	15:57:20	Method modified		
14-Sep-21	15:57:27	Process Quantify		
14-Sep-21	15:58:47	Method modified		
14-Sep-21	15:58:53	Process Quantify		
14-Sep-21	15:59:47	Method modified		
14-Sep-21	15:59:54	Process Quantify		
14-Sep-21	16:01:18	Method modified		
14-Sep-21	16:01:26	Process Quantify		
14-Sep-21	16:03:11	Peak deleted	Sample:10-210913B18, Compound:13CDiF2, RT:7.026	
14-Sep-21	16:03:11	Peak deleted	Sample:10-210913B18, Compound:13CDiF2, RT:7.026	
14-Sep-21	16:04:26	Peak added	Sample:10-210913B25, Compound:DiF2, RT:7.182	EG210914MA
14-Sep-21	16:04:26	Peak added	Sample:10-210913B25, Compound:DiF2, RT:7.182	EG210914MA
14-Sep-21	16:04:26	Peak added	Sample:10-210913B25, Compound:DiF2, RT:6.905	EG210914MA
14-Sep-21	16:04:58	Peak added	Sample:10-210913B25, Compound:DiF2, RT:7.035	EG210914MA
14-Sep-21	16:04:58	Peak added	Sample:10-210913B25, Compound:DiF2, RT:7.035	EG210914MA
14-Sep-21	16:06:05	Pre modification peak	Sample:10-210913B26, Compound:DiF2, RT:7.026	
14-Sep-21	16:06:05	Peak modified	Sample:10-210913B26, Compound:DiF2, RT:7.026	EG210914MB
14-Sep-21	16:06:05	Pre modification peak	Sample:10-210913B26, Compound:DiF2, RT:6.905	
14-Sep-21	16:06:05	Peak modified	Sample:10-210913B26, Compound:DiF2, RT:6.905	EG210914MB
14-Sep-21	16:06:05	Peak added	Sample:10-210913B26, Compound:DiF2, RT:7.035	EG210914MB
14-Sep-21	16:06:19	Peak added	Sample:10-210913B26, Compound:DiF2, RT:6.723	EG210914MA
14-Sep-21	16:06:35	Peak added	Sample:10-210913B27, Compound:DiF2, RT:7.173	EG210914MA
14-Sep-21	16:06:35	Peak added	Sample:10-210913B27, Compound:DiF2, RT:7.173	EG210914MA
14-Sep-21	16:07:10	Peak added	Sample:10-210913B28, Compound:DiF2, RT:7.026	EG210914MA
14-Sep-21	16:07:10	Peak added	Sample:10-210913B28, Compound:DiF2, RT:6.896	EG210914MA
14-Sep-21	16:07:10	Peak added	Sample:10-210913B28, Compound:DiF2, RT:7.026	EG210914MA
14-Sep-21	16:07:10	Peak added	Sample:10-210913B28, Compound:DiF2, RT:6.905	EG210914MA
14-Sep-21	16:07:10	Peak added	Sample:10-210913B28, Compound:DiF2, RT:6.714	EG210914MA

Quantify Audit Report MassLynx MassLynx V4.1 SCN 901

Dataset: I:\Organics Instrument\HIGHRES GCMS Completed Results Files\HR-10\2021\2109\10-210913B-Q1-PBDE.qld

Last Altered: Thursday, September 16, 2021 14:59:12 Eastern Daylight Time
Printed: Friday, September 17, 2021 10:46:06 Eastern Daylight Time

Date	Time	Event	Details	Comments
14-Sep-21	16:07:44	Method modified		
14-Sep-21	16:07:51	Process Quantify		
14-Sep-21	16:09:00	Pre modification peak	Sample:10-210913B28, Compound:TriF3, RT:8.472	
14-Sep-21	16:09:00	Peak modified	Sample:10-210913B28, Compound:TriF3, RT:8.472	EG210914MB
14-Sep-21	16:09:00	Pre modification peak	Sample:10-210913B28, Compound:TriF3, RT:8.705	
14-Sep-21	16:09:00	Peak modified	Sample:10-210913B28, Compound:TriF3, RT:8.705	EG210914MB
14-Sep-21	16:09:00	Pre modification peak	Sample:10-210913B28, Compound:TriF3, RT:8.472	
14-Sep-21	16:09:00	Peak modified	Sample:10-210913B28, Compound:TriF3, RT:8.472	EG210914MB
14-Sep-21	16:09:31	Peak added	Sample:10-210913B28, Compound:TriF3, RT:9.038	EG210914MA
14-Sep-21	16:09:31	Peak added	Sample:10-210913B28, Compound:TriF3, RT:9.038	EG210914MA
14-Sep-21	16:10:01	Pre modification peak	Sample:10-210913B28, Compound:TriF3, RT:8.927	
14-Sep-21	16:10:01	Peak modified	Sample:10-210913B28, Compound:TriF3, RT:8.927	EG210914MB
14-Sep-21	16:10:01	Pre modification peak	Sample:10-210913B28, Compound:TriF3, RT:8.938	
14-Sep-21	16:10:01	Peak modified	Sample:10-210913B28, Compound:TriF3, RT:8.938	EG210914MB
14-Sep-21	16:10:22	Peak added	Sample:10-210913B27, Compound:TriF3, RT:8.483	EG210914MA
14-Sep-21	16:10:22	Peak added	Sample:10-210913B27, Compound:TriF3, RT:8.505	EG210914MA
14-Sep-21	16:10:45	Peak modified	Sample:10-210913B27, Compound:TriF3, RT:8.483	EG210914MA
14-Sep-21	16:10:45	Peak modified	Sample:10-210913B27, Compound:TriF3, RT:8.505	EG210914MA
14-Sep-21	16:11:20	Pre modification peak	Sample:10-210913B26, Compound:TriF3, RT:8.705	
14-Sep-21	16:11:20	Peak modified	Sample:10-210913B26, Compound:TriF3, RT:8.705	EG210914MB
14-Sep-21	16:11:20	Pre modification peak	Sample:10-210913B26, Compound:TriF3, RT:8.705	
14-Sep-21	16:11:20	Peak modified	Sample:10-210913B26, Compound:TriF3, RT:8.705	EG210914MB
14-Sep-21	16:12:41	Pre modification peak	Sample:10-210913B26, Compound:TriF3, RT:8.250	
14-Sep-21	16:12:41	Peak modified	Sample:10-210913B26, Compound:TriF3, RT:8.250	EG210914MA
14-Sep-21	16:12:41	Peak added	Sample:10-210913B26, Compound:TriF3, RT:8.316	EG210914MA
14-Sep-21	16:12:41	Peak added	Sample:10-210913B26, Compound:TriF3, RT:8.316	EG210914MA
14-Sep-21	16:12:41	Peak added	Sample:10-210913B26, Compound:TriF3, RT:8.250	EG210914MA
14-Sep-21	16:12:58	Peak added	Sample:10-210913B25, Compound:TriF3, RT:8.538	EG210914MA
14-Sep-21	16:12:58	Peak added	Sample:10-210913B25, Compound:TriF3, RT:8.538	EG210914MA
14-Sep-21	16:13:47	Peak added	Sample:10-210913B17, Compound:TriF3, RT:7.972	EG210914MA
14-Sep-21	16:13:47	Peak added	Sample:10-210913B17, Compound:TriF3, RT:7.716	EG210914MA
14-Sep-21	16:14:01	Peak added	Sample:10-210913B17, Compound:TriF3, RT:9.005	EG210914MA
14-Sep-21	16:15:18	Peak deleted	Sample:10-210913B25, Compound:13CHBBF4, RT:10.655	EG210914MB
14-Sep-21	16:15:18	Pre modification peak	Sample:10-210913B25, Compound:13CHBBF4, RT:10.407	
14-Sep-21	16:15:18	Peak modified	Sample:10-210913B25, Compound:13CHBBF4, RT:10.407	EG210914MB
14-Sep-21	16:15:18	Pre modification peak	Sample:10-210913B25, Compound:13CHBBF4, RT:10.680	
14-Sep-21	16:15:18	Peak modified	Sample:10-210913B25, Compound:13CHBBF4, RT:10.680	EG210914MB
14-Sep-21	16:15:18	Pre modification peak	Sample:10-210913B25, Compound:13CHBBF4, RT:10.394	
14-Sep-21	16:15:18	Peak modified	Sample:10-210913B25, Compound:13CHBBF4, RT:10.394	EG210914MB
14-Sep-21	16:15:44	Method modified		
14-Sep-21	16:15:51	Process Quantify		
14-Sep-21	16:16:39	Peak added	Sample:10-210913B28, Compound:HBBF4, RT:10.146	EG210914MA
14-Sep-21	16:17:16	Peak added	Sample:10-210913B17, Compound:HBBF4, RT:10.009	EG210914MA
14-Sep-21	16:17:25	Peak added	Sample:10-210913B16, Compound:HBBF4, RT:10.009	EG210914MA
14-Sep-21	16:17:39	Peak modified	Sample:10-210913B16, Compound:HBBF4, RT:10.009	EG210914MA
14-Sep-21	16:17:59	Peak added	Sample:10-210913B15, Compound:HBBF4, RT:10.009	EG210914MA
14-Sep-21	16:17:59	Peak added	Sample:10-210913B15, Compound:HBBF4, RT:10.021	EG210914MA
14-Sep-21	16:18:10	Peak modified	Sample:10-210913B15, Compound:HBBF4, RT:10.021	EG210914MA
14-Sep-21	16:18:27	Peak added	Sample:10-210913B14, Compound:HBBF4, RT:10.009	EG210914MA
14-Sep-21	16:18:27	Peak added	Sample:10-210913B14, Compound:HBBF4, RT:10.021	EG210914MA
14-Sep-21	16:18:31	Dataset Saved	Saved to 'I:\Organics Instrument\HIGHRES GCMS Complete...	
14-Sep-21	16:19:10	Pre modification peak	Sample:10-210913B15, Compound:TetraF4, RT:10.568	
14-Sep-21	16:19:10	Peak modified	Sample:10-210913B15, Compound:TetraF4, RT:10.568	EG210914MA

Date	Time	Event	Details	Comments
14-Sep-21	16:19:10	Peak added	Sample:10-210913B15, Compound:TetraF4, RT:10.568	EG210914MA
14-Sep-21	16:19:28	Pre modification peak	Sample:10-210913B16, Compound:TetraF4, RT:10.568	
14-Sep-21	16:19:28	Peak modified	Sample:10-210913B16, Compound:TetraF4, RT:10.568	EG210914MB
14-Sep-21	16:19:28	Pre modification peak	Sample:10-210913B16, Compound:TetraF4, RT:10.568	
14-Sep-21	16:19:28	Peak modified	Sample:10-210913B16, Compound:TetraF4, RT:10.568	EG210914MB
14-Sep-21	16:21:26	Pre modification peak	Sample:10-210913B17, Compound:TetraF4, RT:10.556	
14-Sep-21	16:21:26	Peak modified	Sample:10-210913B17, Compound:TetraF4, RT:10.556	EG210914MB
14-Sep-21	16:21:26	Pre modification peak	Sample:10-210913B17, Compound:TetraF4, RT:10.680	
14-Sep-21	16:21:26	Peak modified	Sample:10-210913B17, Compound:TetraF4, RT:10.680	EG210914MB
14-Sep-21	16:21:26	Pre modification peak	Sample:10-210913B17, Compound:TetraF4, RT:10.556	
14-Sep-21	16:21:26	Peak modified	Sample:10-210913B17, Compound:TetraF4, RT:10.556	EG210914MB
14-Sep-21	16:21:26	Pre modification peak	Sample:10-210913B17, Compound:TetraF4, RT:10.680	
14-Sep-21	16:21:26	Peak modified	Sample:10-210913B17, Compound:TetraF4, RT:10.680	EG210914MB
14-Sep-21	16:22:06	Peak modified	Sample:10-210913B17, Compound:TetraF4, RT:10.693	
14-Sep-21	16:22:06	Peak modified	Sample:10-210913B17, Compound:TetraF4, RT:10.693	
14-Sep-21	16:22:37	Pre modification peak	Sample:10-210913B17, Compound:TetraF4, RT:10.059	
14-Sep-21	16:22:37	Peak modified	Sample:10-210913B17, Compound:TetraF4, RT:10.059	EG210914MB
14-Sep-21	16:22:37	Pre modification peak	Sample:10-210913B17, Compound:TetraF4, RT:10.121	
14-Sep-21	16:22:37	Peak modified	Sample:10-210913B17, Compound:TetraF4, RT:10.121	EG210914MB
14-Sep-21	16:23:24	Pre modification peak	Sample:10-210913B18, Compound:13CTetraF4, RT:10.891	
14-Sep-21	16:23:24	Peak modified	Sample:10-210913B18, Compound:13CTetraF4, RT:10.891	
14-Sep-21	16:23:24	Pre modification peak	Sample:10-210913B18, Compound:13CTetraF4, RT:10.953	
14-Sep-21	16:23:24	Peak modified	Sample:10-210913B18, Compound:13CTetraF4, RT:10.953	
14-Sep-21	16:23:24	Pre modification peak	Sample:10-210913B18, Compound:13CTetraF4, RT:10.891	
14-Sep-21	16:23:24	Peak modified	Sample:10-210913B18, Compound:13CTetraF4, RT:10.891	
14-Sep-21	16:23:24	Pre modification peak	Sample:10-210913B18, Compound:13CTetraF4, RT:10.953	
14-Sep-21	16:23:24	Peak modified	Sample:10-210913B18, Compound:13CTetraF4, RT:10.953	
14-Sep-21	16:23:41	Peak deleted	Sample:10-210913B23, Compound:13CTetraF4, RT:10.655	
14-Sep-21	16:24:29	Pre modification peak	Sample:10-210913B24, Compound:TetraF4, RT:10.233	
14-Sep-21	16:24:29	Peak modified	Sample:10-210913B24, Compound:TetraF4, RT:10.233	EG210914MB
14-Sep-21	16:24:29	Pre modification peak	Sample:10-210913B24, Compound:TetraF4, RT:10.332	
14-Sep-21	16:24:29	Peak modified	Sample:10-210913B24, Compound:TetraF4, RT:10.332	EG210914MB
14-Sep-21	16:24:29	Peak added	Sample:10-210913B24, Compound:TetraF4, RT:10.394	EG210914MB
14-Sep-21	16:24:58	Pre modification peak	Sample:10-210913B24, Compound:TetraF4, RT:10.233	
14-Sep-21	16:24:58	Peak modified	Sample:10-210913B24, Compound:TetraF4, RT:10.233	EG210914MS
14-Sep-21	16:24:58	Peak modified	Sample:10-210913B24, Compound:TetraF4, RT:10.332	EG210914MS
14-Sep-21	16:24:58	Peak modified	Sample:10-210913B24, Compound:TetraF4, RT:10.394	EG210914MS
14-Sep-21	16:25:34	Pre modification peak	Sample:10-210913B25, Compound:TetraF4, RT:10.295	
14-Sep-21	16:25:34	Peak modified	Sample:10-210913B25, Compound:TetraF4, RT:10.295	EG210914MB
14-Sep-21	16:25:34	Pre modification peak	Sample:10-210913B25, Compound:TetraF4, RT:10.295	
14-Sep-21	16:25:34	Peak modified	Sample:10-210913B25, Compound:TetraF4, RT:10.295	EG210914MB
14-Sep-21	16:25:50	Peak modified	Sample:10-210913B25, Compound:TetraF4, RT:10.295	EG210914MB
14-Sep-21	16:27:45	Pre modification peak	Sample:10-210913B26, Compound:TetraF4, RT:10.606	
14-Sep-21	16:27:45	Peak modified	Sample:10-210913B26, Compound:TetraF4, RT:10.606	EG210914MB
14-Sep-21	16:27:45	Pre modification peak	Sample:10-210913B26, Compound:TetraF4, RT:10.606	
14-Sep-21	16:27:45	Peak modified	Sample:10-210913B26, Compound:TetraF4, RT:10.606	EG210914MB
14-Sep-21	16:29:12	Peak deleted	Sample:10-210913B26, Compound:TetraF4, RT:10.730	EG210914MB
14-Sep-21	16:29:12	Peak deleted	Sample:10-210913B26, Compound:TetraF4, RT:10.730	EG210914MB
14-Sep-21	16:29:12	Pre modification peak	Sample:10-210913B26, Compound:TetraF4, RT:10.891	
14-Sep-21	16:29:12	Peak modified	Sample:10-210913B26, Compound:TetraF4, RT:10.891	EG210914MB
14-Sep-21	16:29:51	Peak added	Sample:10-210913B27, Compound:TetraF4, RT:10.245	EG210914MA
14-Sep-21	16:29:51	Peak added	Sample:10-210913B27, Compound:TetraF4, RT:10.245	EG210914MA
14-Sep-21	16:30:04	Pre modification peak	Sample:10-210913B27, Compound:TetraF4, RT:10.581	

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14-Sep-21	16:30:04	Peak modified	Sample:10-210913B27, Compound:TetraF4, RT:10.581	EG210914MB
14-Sep-21	16:30:47	Pre modification peak	Sample:10-210913B28, Compound:TetraF4, RT:10.245	
14-Sep-21	16:30:47	Peak modified	Sample:10-210913B28, Compound:TetraF4, RT:10.245	EG210914MB
14-Sep-21	16:30:47	Pre modification peak	Sample:10-210913B28, Compound:TetraF4, RT:10.581	
14-Sep-21	16:30:47	Peak modified	Sample:10-210913B28, Compound:TetraF4, RT:10.581	EG210914MB
14-Sep-21	16:30:47	Pre modification peak	Sample:10-210913B28, Compound:TetraF4, RT:10.245	
14-Sep-21	16:30:47	Peak modified	Sample:10-210913B28, Compound:TetraF4, RT:10.245	EG210914MB
14-Sep-21	16:30:47	Pre modification peak	Sample:10-210913B28, Compound:TetraF4, RT:10.581	
14-Sep-21	16:30:47	Peak modified	Sample:10-210913B28, Compound:TetraF4, RT:10.581	EG210914MB
14-Sep-21	16:30:47	Pre modification peak	Sample:10-210913B28, Compound:TetraF4, RT:10.866	
14-Sep-21	16:30:47	Peak modified	Sample:10-210913B28, Compound:TetraF4, RT:10.866	EG210914MB
14-Sep-21	16:31:38	Peak modified	Sample:10-210913B28, Compound:TetraF4, RT:10.245	EG210914MA
14-Sep-21	16:31:38	Peak added	Sample:10-210913B28, Compound:TetraF4, RT:10.307	EG210914MA
14-Sep-21	16:31:38	Peak added	Sample:10-210913B28, Compound:TetraF4, RT:10.158	EG210914MA
14-Sep-21	16:31:38	Peak added	Sample:10-210913B28, Compound:TetraF4, RT:10.320	EG210914MA
14-Sep-21	16:31:38	Peak added	Sample:10-210913B28, Compound:TetraF4, RT:10.158	EG210914MA
14-Sep-21	16:32:18	Peak added	Sample:10-210913B32, Compound:TetraF4, RT:10.556	EG210914MA
14-Sep-21	16:32:18	Peak added	Sample:10-210913B32, Compound:TetraF4, RT:10.556	EG210914MA
14-Sep-21	16:32:34	Peak modified	Sample:10-210913B32, Compound:TetraF4, RT:10.556	EG210914MA
14-Sep-21	16:32:50	Peak modified	Sample:10-210913B32, Compound:TetraF4, RT:10.556	EG210914MA
14-Sep-21	16:32:59	Dataset Saved	Saved to 'I:\Organics Instrument\HIGHRES GCMS Complete...	
14-Sep-21	16:33:57	Peak added	Sample:10-210913B14, Compound:PentaF5, RT:12.196	EG210914MA
14-Sep-21	16:33:57	Peak added	Sample:10-210913B14, Compound:PentaF5, RT:12.209	EG210914MA
14-Sep-21	16:34:16	Peak added	Sample:10-210913B16, Compound:PentaF5, RT:12.184	EG210914MA
14-Sep-21	16:34:16	Peak added	Sample:10-210913B16, Compound:PentaF5, RT:12.706	EG210914MA
14-Sep-21	16:34:16	Peak added	Sample:10-210913B16, Compound:PentaF5, RT:12.196	EG210914MA
14-Sep-21	16:34:35	Pre modification peak	Sample:10-210913B16, Compound:PentaF5, RT:12.706	
14-Sep-21	16:34:35	Peak modified	Sample:10-210913B16, Compound:PentaF5, RT:12.706	EG210914MA
14-Sep-21	16:34:35	Peak modified	Sample:10-210913B16, Compound:PentaF5, RT:12.196	EG210914MA
14-Sep-21	16:35:12	Pre modification peak	Sample:10-210913B17, Compound:PentaF5, RT:12.693	
14-Sep-21	16:35:12	Peak modified	Sample:10-210913B17, Compound:PentaF5, RT:12.693	EG210914MB
14-Sep-21	16:35:12	Pre modification peak	Sample:10-210913B17, Compound:PentaF5, RT:12.693	
14-Sep-21	16:35:12	Peak modified	Sample:10-210913B17, Compound:PentaF5, RT:12.693	EG210914MB
14-Sep-21	16:35:51	Pre modification peak	Sample:10-210913B17, Compound:PentaF5, RT:13.116	
14-Sep-21	16:35:51	Peak modified	Sample:10-210913B17, Compound:PentaF5, RT:13.116	EG210914MB
14-Sep-21	16:35:51	Pre modification peak	Sample:10-210913B17, Compound:PentaF5, RT:13.104	
14-Sep-21	16:35:51	Peak modified	Sample:10-210913B17, Compound:PentaF5, RT:13.104	EG210914MB
14-Sep-21	16:36:30	Peak modified	Sample:10-210913B17, Compound:PentaF5, RT:13.116	EG210914MB
14-Sep-21	16:36:30	Pre modification peak	Sample:10-210913B17, Compound:PentaF5, RT:13.588	
14-Sep-21	16:36:30	Peak modified	Sample:10-210913B17, Compound:PentaF5, RT:13.588	EG210914MB
14-Sep-21	16:36:30	Peak modified	Sample:10-210913B17, Compound:PentaF5, RT:13.104	EG210914MB
14-Sep-21	16:36:30	Pre modification peak	Sample:10-210913B17, Compound:PentaF5, RT:13.601	
14-Sep-21	16:36:30	Peak modified	Sample:10-210913B17, Compound:PentaF5, RT:13.601	EG210914MB
14-Sep-21	16:37:35	Pre modification peak	Sample:10-210913B18, Compound:PentaF5, RT:12.842	
14-Sep-21	16:37:35	Peak modified	Sample:10-210913B18, Compound:PentaF5, RT:12.842	EG210914MB
14-Sep-21	16:37:35	Pre modification peak	Sample:10-210913B18, Compound:PentaF5, RT:12.842	
14-Sep-21	16:37:35	Peak modified	Sample:10-210913B18, Compound:PentaF5, RT:12.842	EG210914MB
14-Sep-21	16:37:45	Dataset Saved	Saved to 'I:\Organics Instrument\HIGHRES GCMS Complete...	
14-Sep-21	16:38:53	Peak added	Sample:10-210913B24, Compound:PentaF5, RT:13.762	EG210914MA
14-Sep-21	16:38:53	Peak added	Sample:10-210913B24, Compound:PentaF5, RT:13.774	EG210914MA
14-Sep-21	16:39:14	Peak added	Sample:10-210913B25, Compound:PentaF5, RT:12.432	EG210914MA
14-Sep-21	16:39:14	Peak added	Sample:10-210913B25, Compound:PentaF5, RT:12.432	EG210914MA
14-Sep-21	16:40:40	Pre modification peak	Sample:10-210913B26, Compound:PentaF5, RT:12.755	

Date	Time	Event	Details	Comments
14-Sep-21	16:40:40	Peak modified	Sample:10-210913B26, Compound:PentaF5, RT:12.755	EG210914MB
14-Sep-21	16:40:40	Pre modification peak	Sample:10-210913B26, Compound:PentaF5, RT:13.165	
14-Sep-21	16:40:40	Peak modified	Sample:10-210913B26, Compound:PentaF5, RT:13.165	EG210914MB
14-Sep-21	16:40:40	Pre modification peak	Sample:10-210913B26, Compound:PentaF5, RT:13.638	
14-Sep-21	16:40:40	Peak modified	Sample:10-210913B26, Compound:PentaF5, RT:13.638	EG210914MB
14-Sep-21	16:40:40	Pre modification peak	Sample:10-210913B26, Compound:PentaF5, RT:13.824	
14-Sep-21	16:40:40	Peak modified	Sample:10-210913B26, Compound:PentaF5, RT:13.824	EG210914MB
14-Sep-21	16:40:40	Pre modification peak	Sample:10-210913B26, Compound:PentaF5, RT:12.755	
14-Sep-21	16:40:40	Peak modified	Sample:10-210913B26, Compound:PentaF5, RT:12.755	EG210914MB
14-Sep-21	16:40:40	Pre modification peak	Sample:10-210913B26, Compound:PentaF5, RT:13.153	
14-Sep-21	16:40:40	Peak modified	Sample:10-210913B26, Compound:PentaF5, RT:13.153	EG210914MB
14-Sep-21	16:40:40	Pre modification peak	Sample:10-210913B26, Compound:PentaF5, RT:13.812	
14-Sep-21	16:40:40	Peak modified	Sample:10-210913B26, Compound:PentaF5, RT:13.812	EG210914MB
14-Sep-21	16:41:27	Peak added	Sample:10-210913B27, Compound:PentaF5, RT:12.259	EG210914MA
14-Sep-21	16:41:27	Peak added	Sample:10-210913B27, Compound:PentaF5, RT:12.755	EG210914MA
14-Sep-21	16:41:27	Peak added	Sample:10-210913B27, Compound:PentaF5, RT:12.271	EG210914MA
14-Sep-21	16:41:27	Peak added	Sample:10-210913B27, Compound:PentaF5, RT:12.755	EG210914MA
14-Sep-21	16:41:54	Pre modification peak	Sample:10-210913B28, Compound:PentaF5, RT:12.755	
14-Sep-21	16:41:54	Peak modified	Sample:10-210913B28, Compound:PentaF5, RT:12.755	EG210914MB
14-Sep-21	16:41:54	Pre modification peak	Sample:10-210913B28, Compound:PentaF5, RT:13.638	
14-Sep-21	16:41:54	Peak modified	Sample:10-210913B28, Compound:PentaF5, RT:13.638	EG210914MB
14-Sep-21	16:41:54	Peak added	Sample:10-210913B28, Compound:PentaF5, RT:13.638	EG210914MB
14-Sep-21	16:42:20	Peak modified	Sample:10-210913B28, Compound:PentaF5, RT:13.638	EG210914MA
14-Sep-21	16:42:41	Peak added	Sample:10-210913B31, Compound:PentaF5, RT:12.196	EG210914MB
14-Sep-21	16:42:41	Peak added	Sample:10-210913B31, Compound:PentaF5, RT:12.196	EG210914MB
14-Sep-21	16:42:47	Dataset Saved	Saved to 'I:\Organics Instrument\HIGHRES GCMS Complete...	
14-Sep-21	16:43:00	Pre modification peak	Sample:10-210913B31, Compound:PentaF5, RT:12.706	
14-Sep-21	16:43:00	Peak modified	Sample:10-210913B31, Compound:PentaF5, RT:12.706	EG210914MB
14-Sep-21	16:43:07	Dataset Saved	Saved to 'I:\Organics Instrument\HIGHRES GCMS Complete...	
14-Sep-21	16:43:22	Peak added	Sample:10-210913B32, Compound:PentaF5, RT:12.706	EG210914MA
14-Sep-21	16:43:22	Peak added	Sample:10-210913B32, Compound:PentaF5, RT:12.706	EG210914MA
14-Sep-21	16:44:24	Pre modification peak	Sample:10-210913B17, Compound:HexaF5, RT:13.762	
14-Sep-21	16:44:24	Peak modified	Sample:10-210913B17, Compound:HexaF5, RT:13.762	EG210914MB
14-Sep-21	16:44:24	Pre modification peak	Sample:10-210913B17, Compound:HexaF5, RT:14.135	
14-Sep-21	16:44:24	Peak modified	Sample:10-210913B17, Compound:HexaF5, RT:14.135	EG210914MB
14-Sep-21	16:44:24	Pre modification peak	Sample:10-210913B17, Compound:HexaF5, RT:14.135	
14-Sep-21	16:44:24	Peak modified	Sample:10-210913B17, Compound:HexaF5, RT:14.135	EG210914MB
14-Sep-21	16:45:14	Pre modification peak	Sample:10-210913B24, Compound:HexaF5, RT:14.309	
14-Sep-21	16:45:14	Peak modified	Sample:10-210913B24, Compound:HexaF5, RT:14.309	EG210914MB
14-Sep-21	16:45:33	Peak added	Sample:10-210913B25, Compound:HexaF5, RT:14.284	EG210914MA
14-Sep-21	16:45:33	Peak added	Sample:10-210913B25, Compound:HexaF5, RT:14.296	EG210914MA
14-Sep-21	16:46:58	Pre modification peak	Sample:10-210913B17, Compound:HexaF6, RT:14.872	
14-Sep-21	16:46:58	Peak modified	Sample:10-210913B17, Compound:HexaF6, RT:14.872	EG210914MB
14-Sep-21	16:46:58	Pre modification peak	Sample:10-210913B17, Compound:HexaF6, RT:15.819	
14-Sep-21	16:46:58	Peak modified	Sample:10-210913B17, Compound:HexaF6, RT:15.819	EG210914MB
14-Sep-21	16:46:58	Pre modification peak	Sample:10-210913B17, Compound:HexaF6, RT:15.830	
14-Sep-21	16:46:58	Peak modified	Sample:10-210913B17, Compound:HexaF6, RT:15.830	EG210914MB
14-Sep-21	16:47:20	Pre modification peak	Sample:10-210913B17, Compound:HexaF6, RT:15.328	
14-Sep-21	16:47:20	Peak modified	Sample:10-210913B17, Compound:HexaF6, RT:15.328	EG210914MB
14-Sep-21	16:48:27	Pre modification peak	Sample:10-210913B26, Compound:HexaF6, RT:14.953	
14-Sep-21	16:48:27	Peak modified	Sample:10-210913B26, Compound:HexaF6, RT:14.953	EG210914MB
14-Sep-21	16:48:27	Pre modification peak	Sample:10-210913B26, Compound:HexaF6, RT:14.953	
14-Sep-21	16:48:27	Peak modified	Sample:10-210913B26, Compound:HexaF6, RT:14.953	EG210914MB

Date	Time	Event	Details	Comments
14-Sep-21	16:49:21	Pre modification peak	Sample:10-210913B17, Compound:HeptaF6, RT:17.011	
14-Sep-21	16:49:21	Peak modified	Sample:10-210913B17, Compound:HeptaF6, RT:17.011	EG210914MB
14-Sep-21	16:50:54	Pre modification peak	Sample:10-210913B17, Compound:OctaF7, RT:19.894	
14-Sep-21	16:50:54	Peak modified	Sample:10-210913B17, Compound:OctaF7, RT:19.894	EG210914MB
14-Sep-21	16:51:28	Pre modification peak	Sample:10-210913B17, Compound:OctaF7, RT:19.755	
14-Sep-21	16:51:28	Peak modified	Sample:10-210913B17, Compound:OctaF7, RT:19.755	EG210914MB
14-Sep-21	16:51:28	Pre modification peak	Sample:10-210913B17, Compound:OctaF7, RT:19.755	
14-Sep-21	16:51:28	Peak modified	Sample:10-210913B17, Compound:OctaF7, RT:19.755	EG210914MB
14-Sep-21	16:52:09	Peak added	Sample:10-210913B26, Compound:OctaF7, RT:20.121	EG210914MA
14-Sep-21	16:52:09	Peak added	Sample:10-210913B26, Compound:OctaF7, RT:20.108	EG210914MA
14-Sep-21	16:52:18	Peak modified	Sample:10-210913B26, Compound:OctaF7, RT:20.108	EG210914MA
14-Sep-21	16:53:15	Peak added	Sample:10-210913B26, Compound:OctaF7, RT:19.944	EG210914MA
14-Sep-21	16:53:15	Peak modified	Sample:10-210913B26, Compound:OctaF7, RT:20.108	EG210914MA
14-Sep-21	16:53:15	Peak added	Sample:10-210913B26, Compound:OctaF7, RT:19.932	EG210914MA
14-Sep-21	16:53:42	Peak added	Sample:10-210913B28, Compound:OctaF7, RT:19.515	EG210914MA
14-Sep-21	16:53:42	Peak added	Sample:10-210913B28, Compound:OctaF7, RT:19.503	EG210914MA
14-Sep-21	16:54:51	Pre modification peak	Sample:10-210913B09, Compound:NonaF8, RT:21.225	
14-Sep-21	16:54:51	Peak modified	Sample:10-210913B09, Compound:NonaF8, RT:21.225	EG210914MB
14-Sep-21	16:54:51	Pre modification peak	Sample:10-210913B09, Compound:NonaF8, RT:21.343	
14-Sep-21	16:54:51	Peak modified	Sample:10-210913B09, Compound:NonaF8, RT:21.343	EG210914MB
14-Sep-21	16:54:51	Pre modification peak	Sample:10-210913B09, Compound:NonaF8, RT:21.343	
14-Sep-21	16:54:51	Peak modified	Sample:10-210913B09, Compound:NonaF8, RT:21.343	EG210914MB
14-Sep-21	16:55:21	Peak added	Sample:10-210913B14, Compound:NonaF8, RT:21.355	EG210914MA
14-Sep-21	16:55:21	Peak added	Sample:10-210913B14, Compound:NonaF8, RT:21.626	EG210914MA
14-Sep-21	16:55:21	Peak added	Sample:10-210913B14, Compound:NonaF8, RT:21.343	EG210914MA
14-Sep-21	16:55:21	Peak added	Sample:10-210913B14, Compound:NonaF8, RT:21.614	EG210914MA
14-Sep-21	16:55:43	Peak modified	Sample:10-210913B14, Compound:NonaF8, RT:21.355	EG210914MA
14-Sep-21	16:56:04	Peak added	Sample:10-210913B14, Compound:NonaF8, RT:21.237	EG210914MA
14-Sep-21	16:56:04	Peak added	Sample:10-210913B14, Compound:NonaF8, RT:21.237	EG210914MA
14-Sep-21	16:56:16	Peak deleted	Sample:10-210913B14, Compound:NonaF8, RT:21.237	
14-Sep-21	16:56:16	Peak deleted	Sample:10-210913B14, Compound:NonaF8, RT:21.237	
14-Sep-21	16:57:05	Peak added	Sample:10-210913B15, Compound:NonaF8, RT:21.237	EG210914MA
14-Sep-21	16:57:05	Peak added	Sample:10-210913B15, Compound:NonaF8, RT:21.249	EG210914MA
14-Sep-21	16:57:22	Peak added	Sample:10-210913B16, Compound:NonaF8, RT:21.614	EG210914MA
14-Sep-21	16:57:22	Peak added	Sample:10-210913B16, Compound:NonaF8, RT:21.614	EG210914MA
14-Sep-21	16:57:54	Pre modification peak	Sample:10-210913B17, Compound:NonaF8, RT:21.343	
14-Sep-21	16:57:54	Peak modified	Sample:10-210913B17, Compound:NonaF8, RT:21.343	EG210914MA
14-Sep-21	17:00:11	Peak added	Sample:10-210913B14, Compound:DecaF9, RT:23.276	EG210914MA
14-Sep-21	17:00:11	Peak added	Sample:10-210913B14, Compound:DecaF9, RT:23.276	EG210914MA
14-Sep-21	17:00:27	Peak added	Sample:10-210913B15, Compound:DecaF9, RT:23.267	EG210914MA
14-Sep-21	17:00:27	Peak added	Sample:10-210913B15, Compound:DecaF9, RT:23.284	EG210914MA
14-Sep-21	17:00:44	Peak added	Sample:10-210913B16, Compound:DecaF9, RT:23.258	EG210914MA
14-Sep-21	17:00:44	Peak added	Sample:10-210913B16, Compound:DecaF9, RT:23.267	EG210914MA
14-Sep-21	17:00:53	Peak modified	Sample:10-210913B16, Compound:DecaF9, RT:23.267	EG210914MA
14-Sep-21	17:01:24	Peak added	Sample:10-210913B25, Compound:13CDecaF9, RT:23.284	EG210914MA
14-Sep-21	17:01:24	Peak added	Sample:10-210913B25, Compound:13CDecaF9, RT:23.293	EG210914MA
14-Sep-21	17:01:24	Peak added	Sample:10-210913B25, Compound:DecaF9, RT:23.293	EG210914MA
14-Sep-21	17:01:24	Peak added	Sample:10-210913B25, Compound:DecaF9, RT:23.293	EG210914MA
14-Sep-21	17:01:49	Peak added	Sample:10-210913B28, Compound:DecaF9, RT:23.284	EG210914MA
14-Sep-21	17:01:49	Peak added	Sample:10-210913B28, Compound:DecaF9, RT:23.284	EG210914MA
14-Sep-21	17:02:08	Peak modified	Sample:10-210913B28, Compound:DecaF9, RT:23.284	EG210914MA
14-Sep-21	17:02:30	Peak added	Sample:10-210913B31, Compound:DecaF9, RT:23.276	EG210914MA
14-Sep-21	17:02:30	Peak added	Sample:10-210913B31, Compound:DecaF9, RT:23.258	EG210914MA

Quantify Audit Report MassLynx MassLynx V4.1 SCN 901

Dataset: I:\Organics Instrument\HIGHRES GCMS Completed Results Files\HR-10\2021\2109\10-210913B-Q1-PBDE.qld

Last Altered: Thursday, September 16, 2021 14:59:12 Eastern Daylight Time
Printed: Friday, September 17, 2021 10:46:06 Eastern Daylight Time

Date	Time	Event	Details	Comments
14-Sep-21	17:03:09	Peak added	Sample:10-210913B14, Compound:DBDPEF10, RT:24.659	EG210914MA
14-Sep-21	17:03:09	Peak added	Sample:10-210913B14, Compound:DBDPEF10, RT:24.659	EG210914MA
14-Sep-21	17:03:31	Pre modification peak	Sample:10-210913B17, Compound:DBDPEF10, RT:24.648	
14-Sep-21	17:03:31	Peak modified	Sample:10-210913B17, Compound:DBDPEF10, RT:24.648	EG210914MB
14-Sep-21	17:04:07	Peak added	Sample:10-210913B28, Compound:DBDPEF10, RT:24.700	EG210914MA
14-Sep-21	17:04:07	Peak added	Sample:10-210913B28, Compound:DBDPEF10, RT:24.659	EG210914MA
14-Sep-21	17:04:20	Dataset Saved	Saved to 'I:\Organics Instrument\HIGHRES GCMS Complete...	
16-Sep-21	17:13:46	Dataset Saved	Saved to 'I:\Organics Instrument\HIGHRES GCMS Complete...	

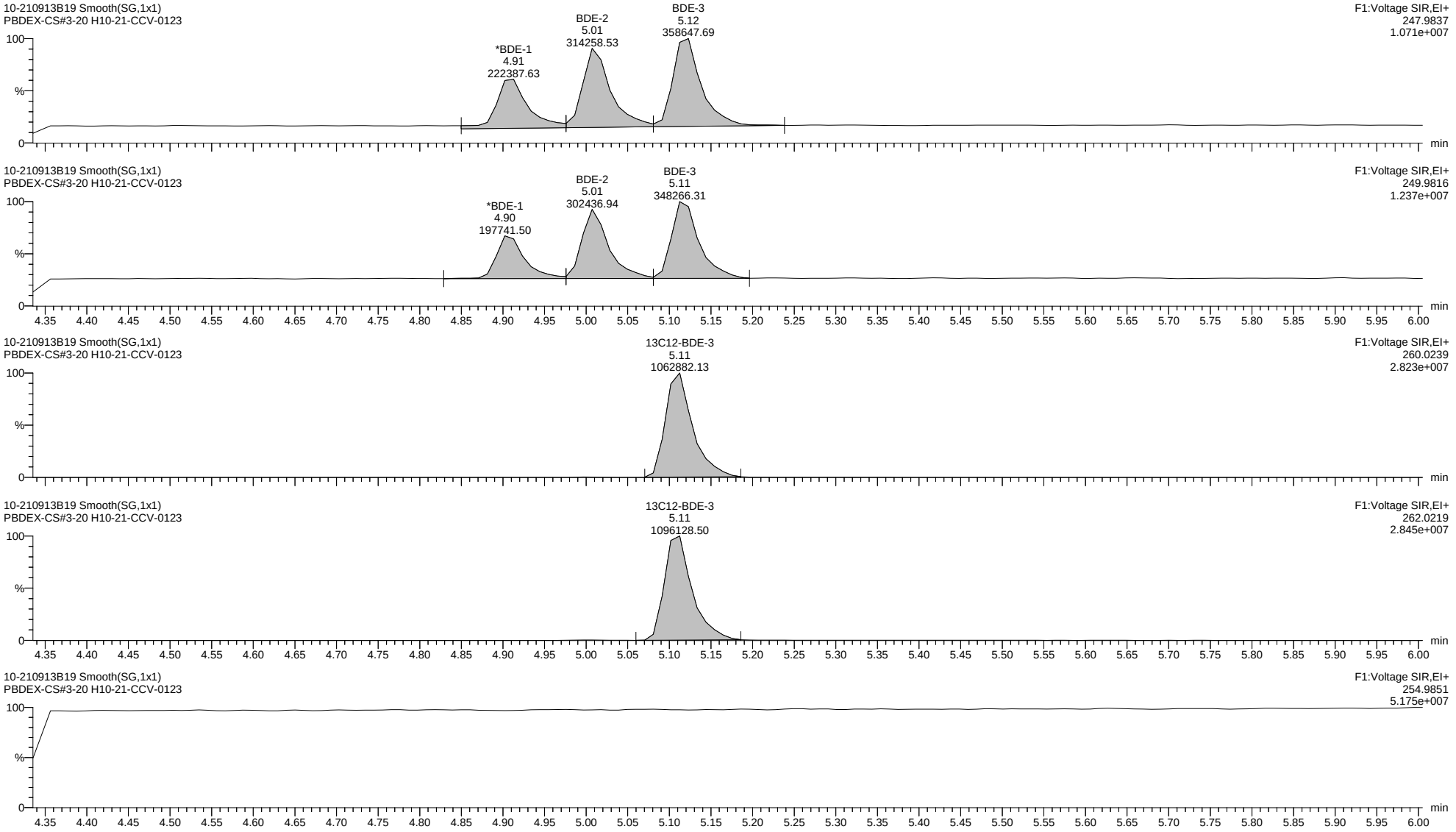
Quantify Sample Template Report **MassLynx MassLynx V4.1 SCN 901**

Dataset: I:\Organics Instrument\HIGHRES GCMS Completed Results Files\HR-10\2021\2109\10-210913B-Q1-PBDE.qld

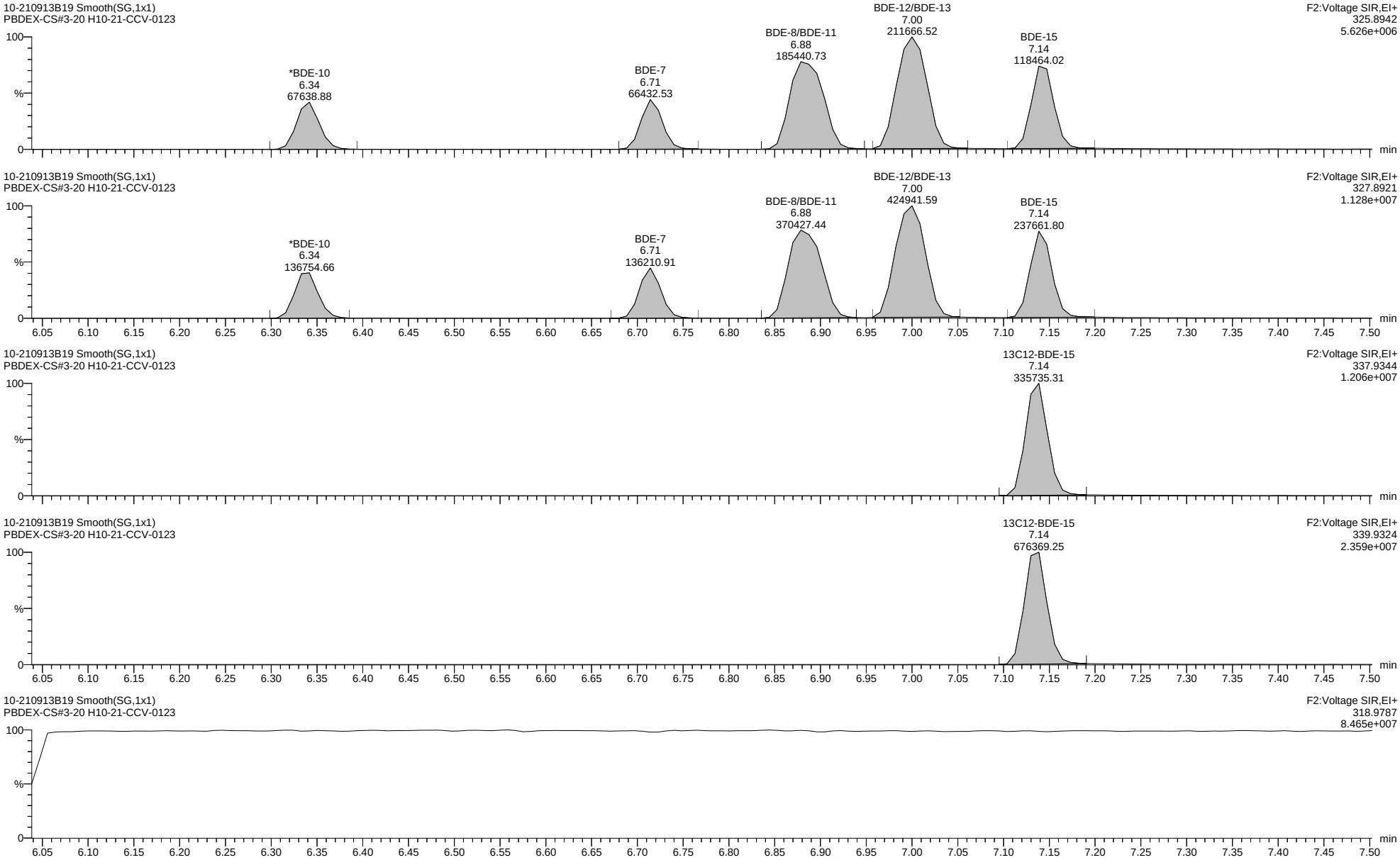
Last Altered: Thursday, September 16, 2021 14:59:12 Eastern Daylight Time
Printed: Friday, September 17, 2021 10:46:06 Eastern Daylight Time

Method: C:\MassLynx\PBDE.PRO\MethDB\PBDEX-DB5-1-210913B.mdb 14 Sep 2021 11:10:04
Calibration: C:\MassLynx\PBDE.PRO\CurveDB\10-210913B-ICAL-PBDE.cdb 14 Sep 2021 11:07:06

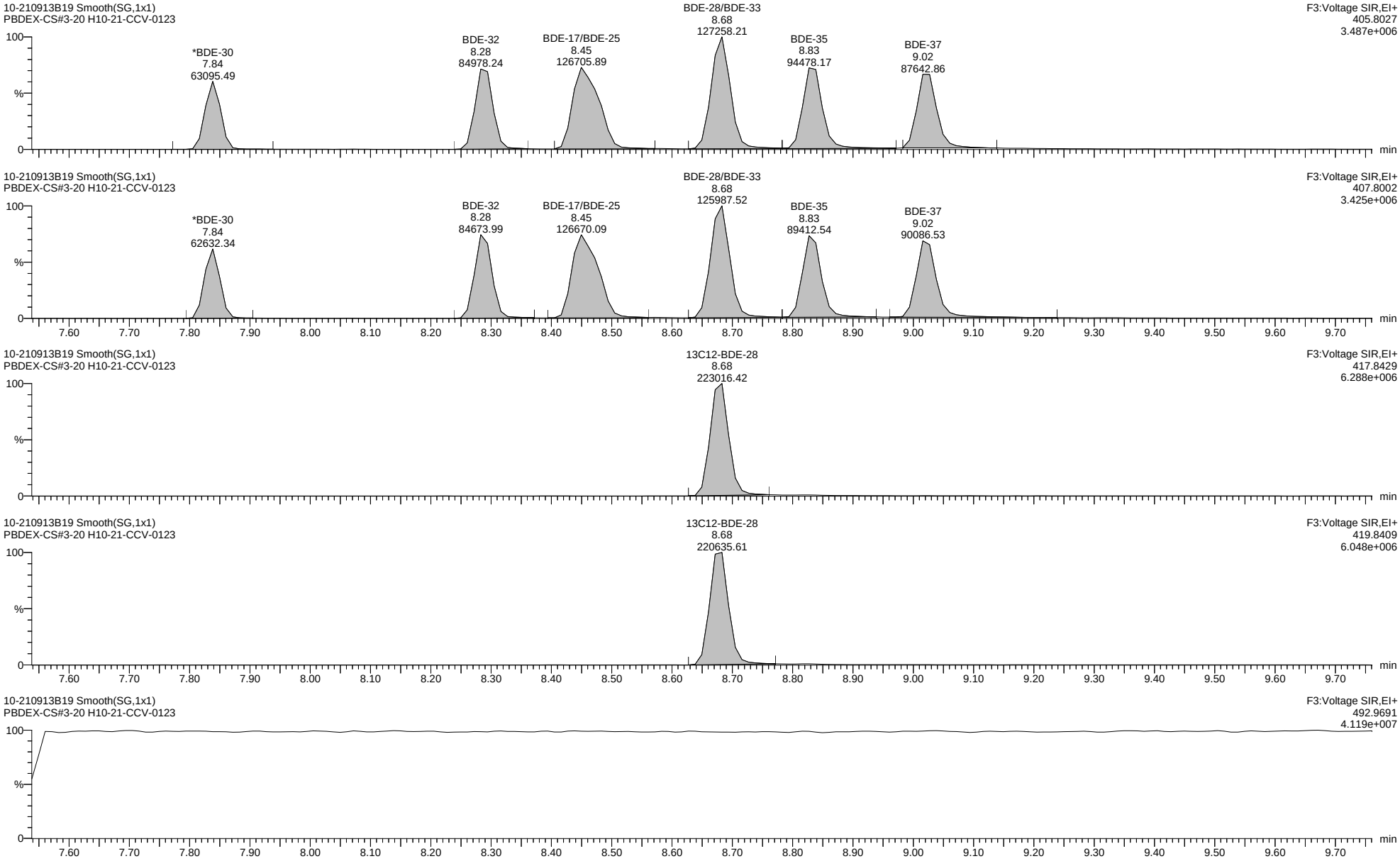
Name: 10-210913B19, Date: 14-Sep-2021, Time: 03:40:24, ID: H10-21-CCV-0123, Description: PBDEX-CS#3-20, Vial: Tray1:1



Name: 10-210913B19, Date: 14-Sep-2021, Time: 03:40:24, ID: H10-21-CCV-0123, Description: PBDEX-CS#3-20, Vial: Tray1:1



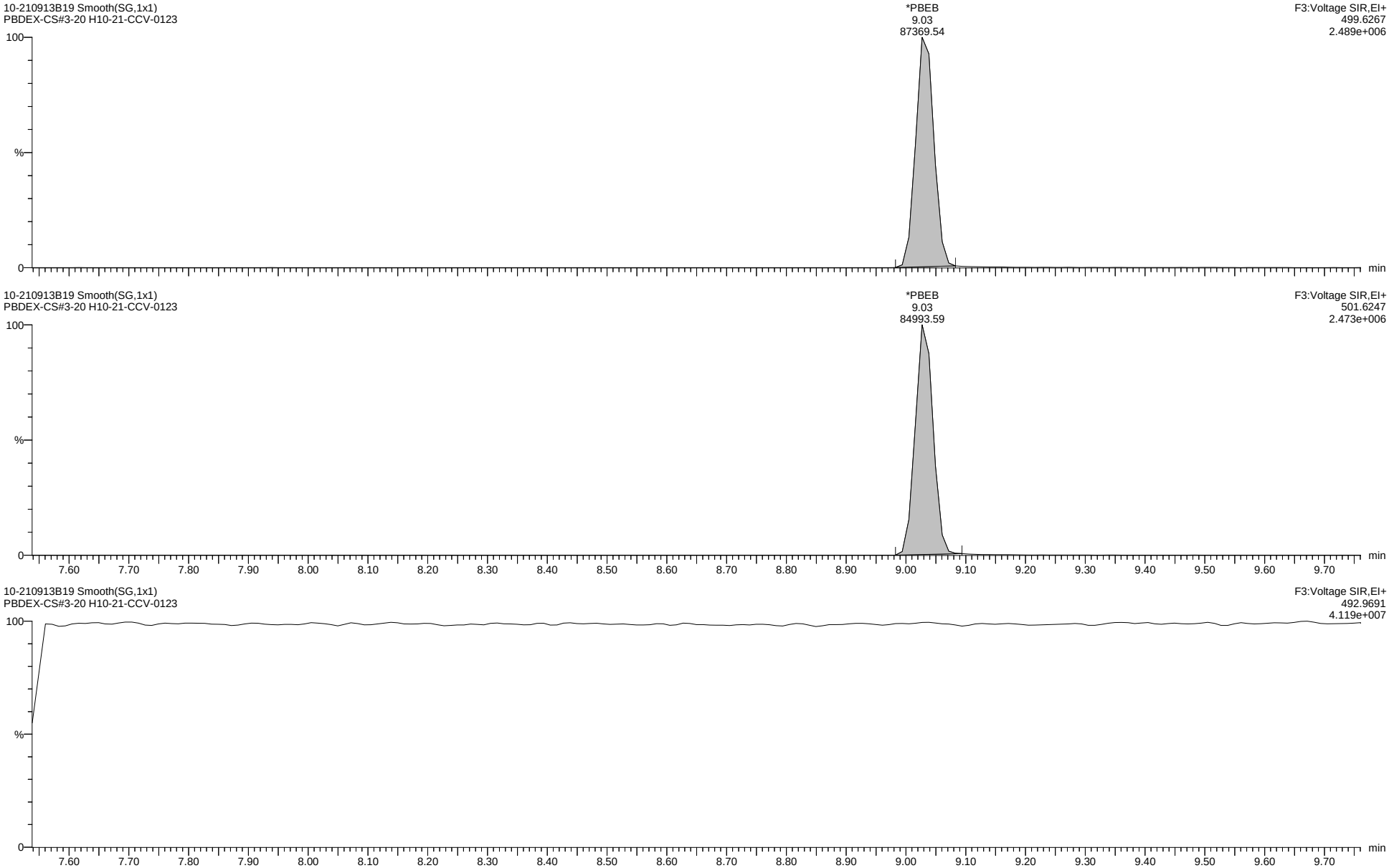
Name: 10-210913B19, Date: 14-Sep-2021, Time: 03:40:24, ID: H10-21-CCV-0123, Description: PBDEX-CS#3-20, Vial: Tray1:1



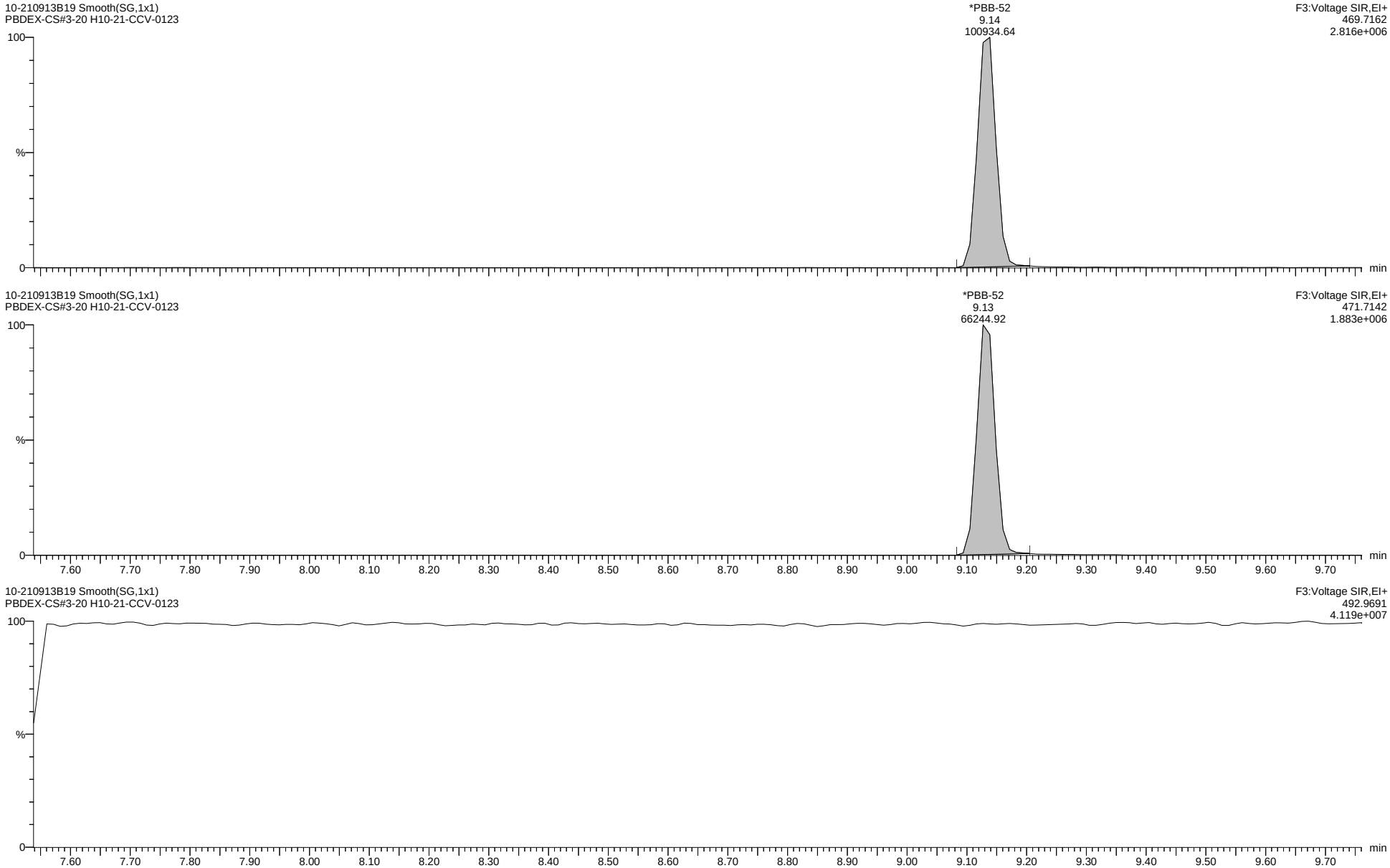
Dataset: I:\Organics Instrument\HIGHRES GCMS Completed Results Files\HR-10\2021\2109\10-210913B-Q1-PBDE.qld

Last Altered: Thursday, September 16, 2021 14:59:12 Eastern Daylight Time
Printed: Friday, September 17, 2021 10:46:06 Eastern Daylight Time

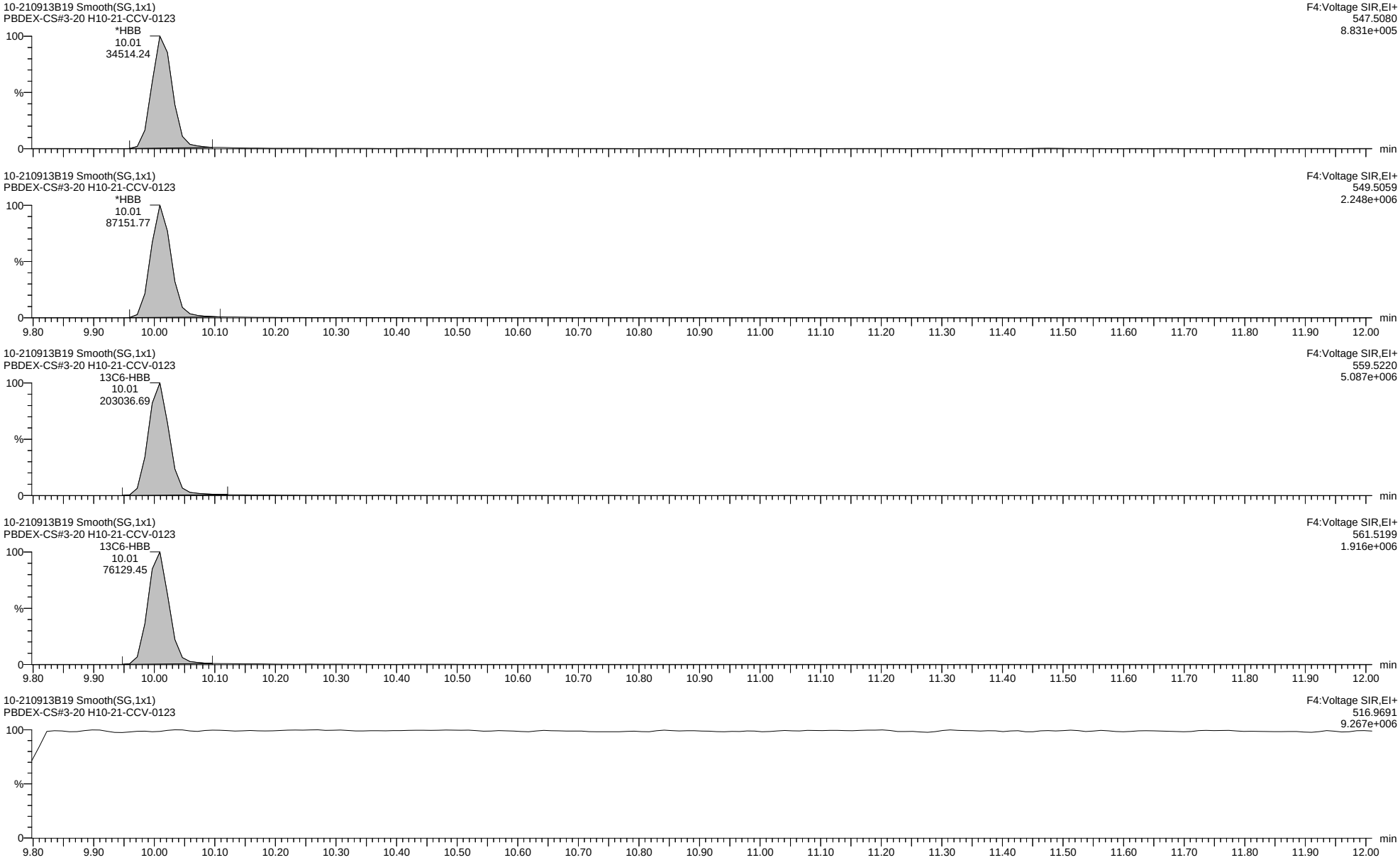
Name: 10-210913B19, Date: 14-Sep-2021, Time: 03:40:24, ID: H10-21-CCV-0123, Description: PBDEX-CS#3-20, Vial: Tray1:1



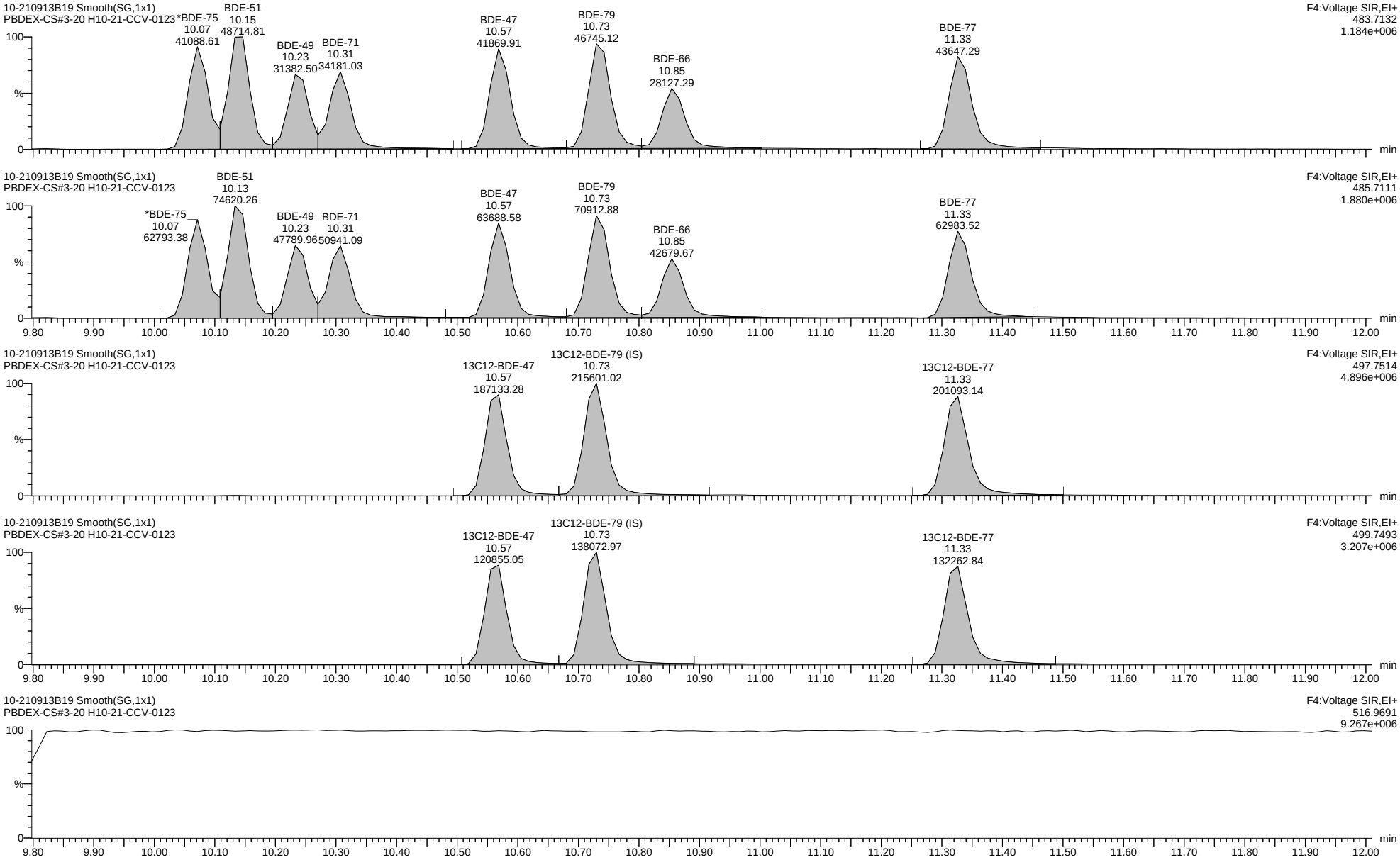
Name: 10-210913B19, Date: 14-Sep-2021, Time: 03:40:24, ID: H10-21-CCV-0123, Description: PBDEX-CS#3-20, Vial: Tray1:1



Name: 10-210913B19, Date: 14-Sep-2021, Time: 03:40:24, ID: H10-21-CCV-0123, Description: PBDEX-CS#3-20, Vial: Tray1:1



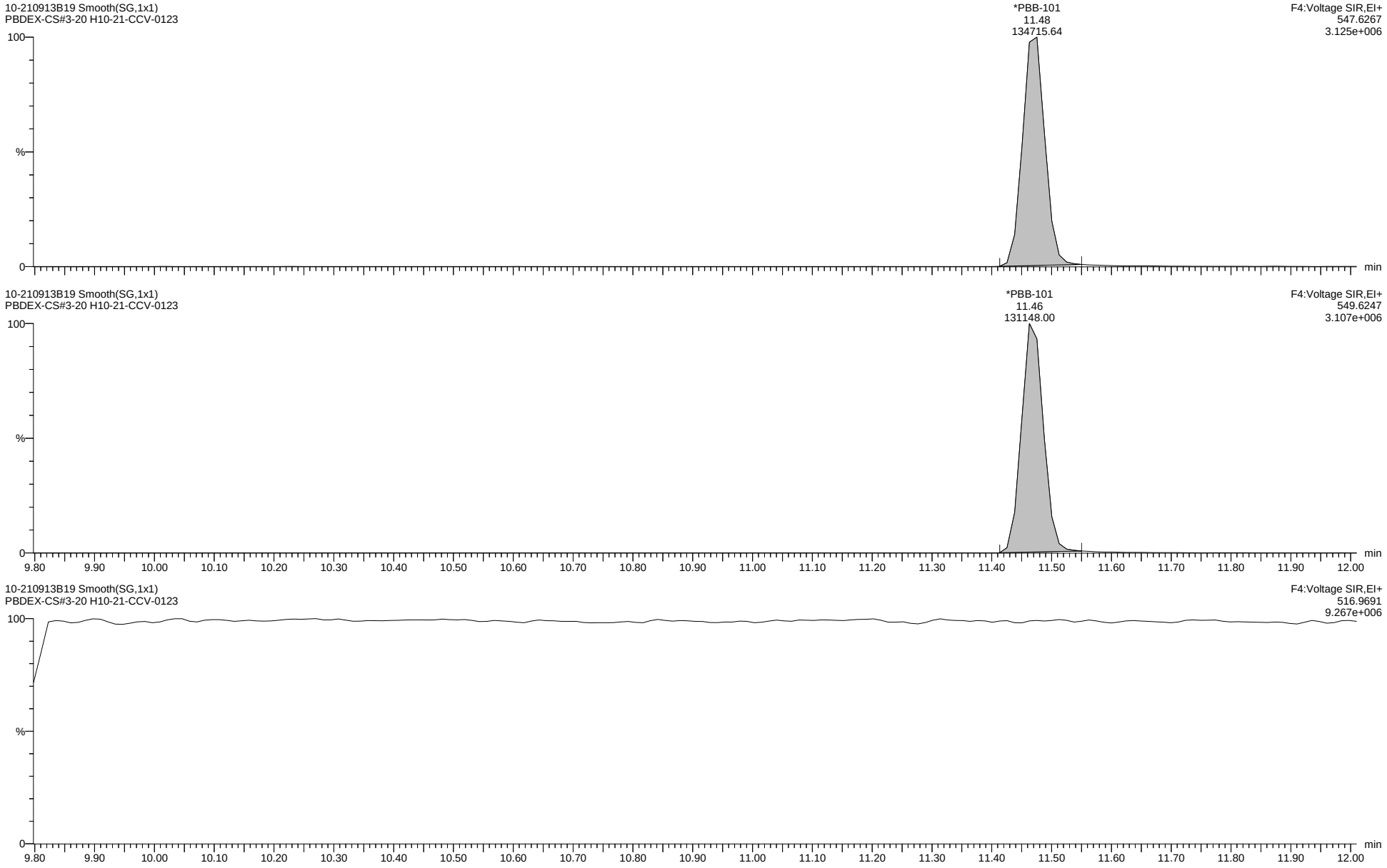
Name: 10-210913B19, Date: 14-Sep-2021, Time: 03:40:24, ID: H10-21-CCV-0123, Description: PBDEX-CS#3-20, Vial: Tray1:1



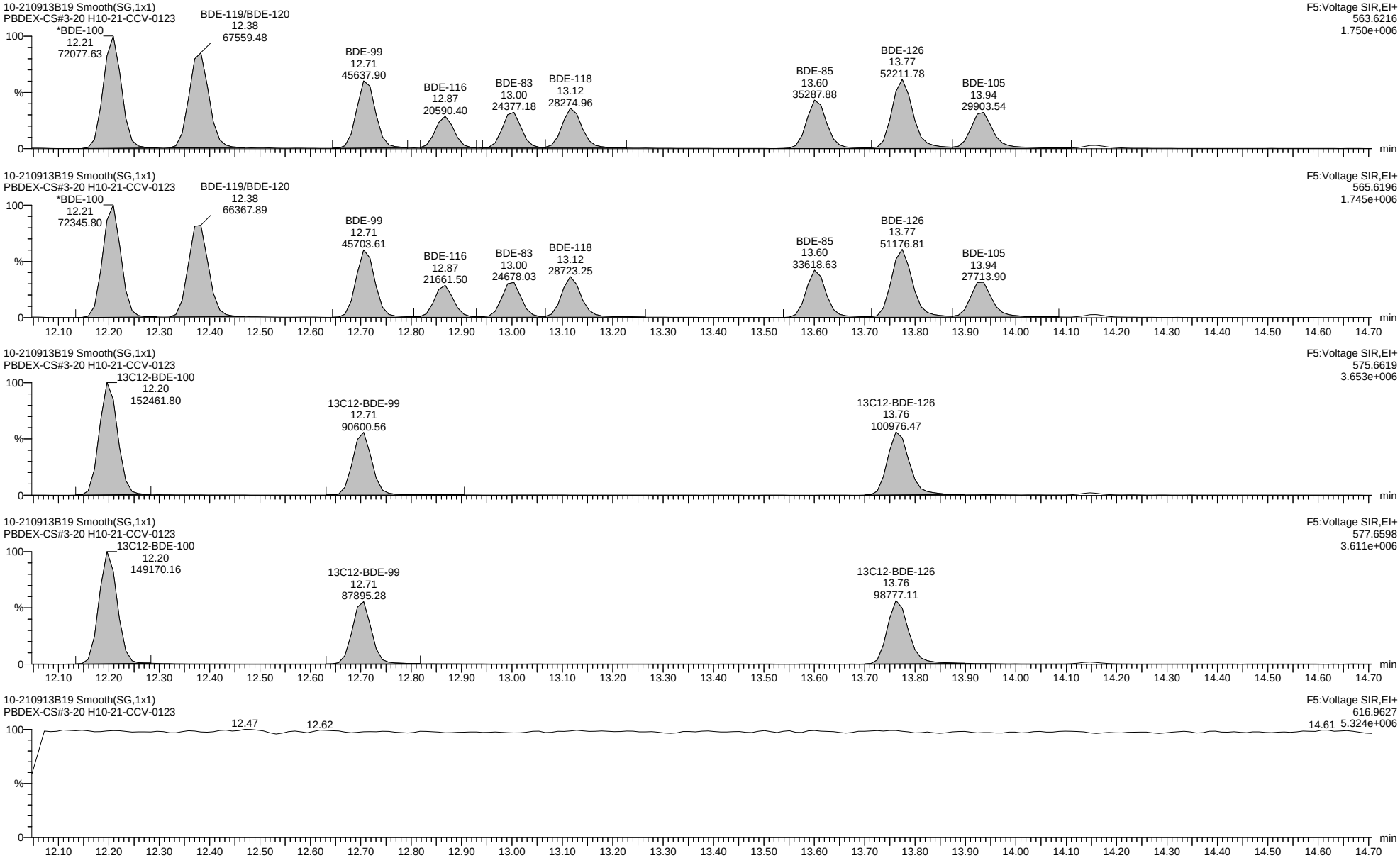
Dataset: I:\Organics Instrument\HIGHRES GCMS Completed Results Files\HR-10\2021\2109\10-210913B-Q1-PBDE.qld

Last Altered: Thursday, September 16, 2021 14:59:12 Eastern Daylight Time
Printed: Friday, September 17, 2021 10:46:06 Eastern Daylight Time

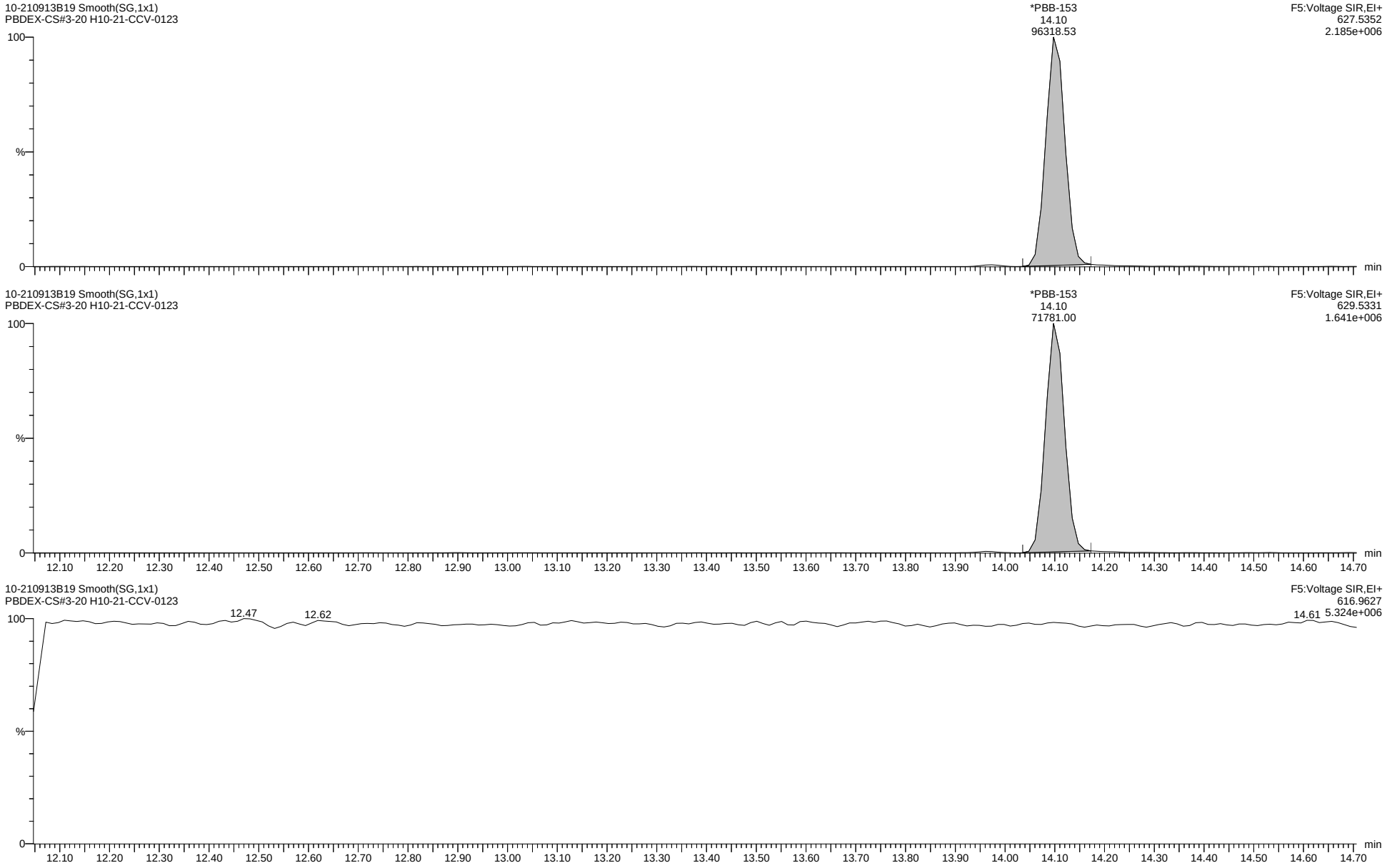
Name: 10-210913B19, Date: 14-Sep-2021, Time: 03:40:24, ID: H10-21-CCV-0123, Description: PBDEX-CS#3-20, Vial: Tray1:1



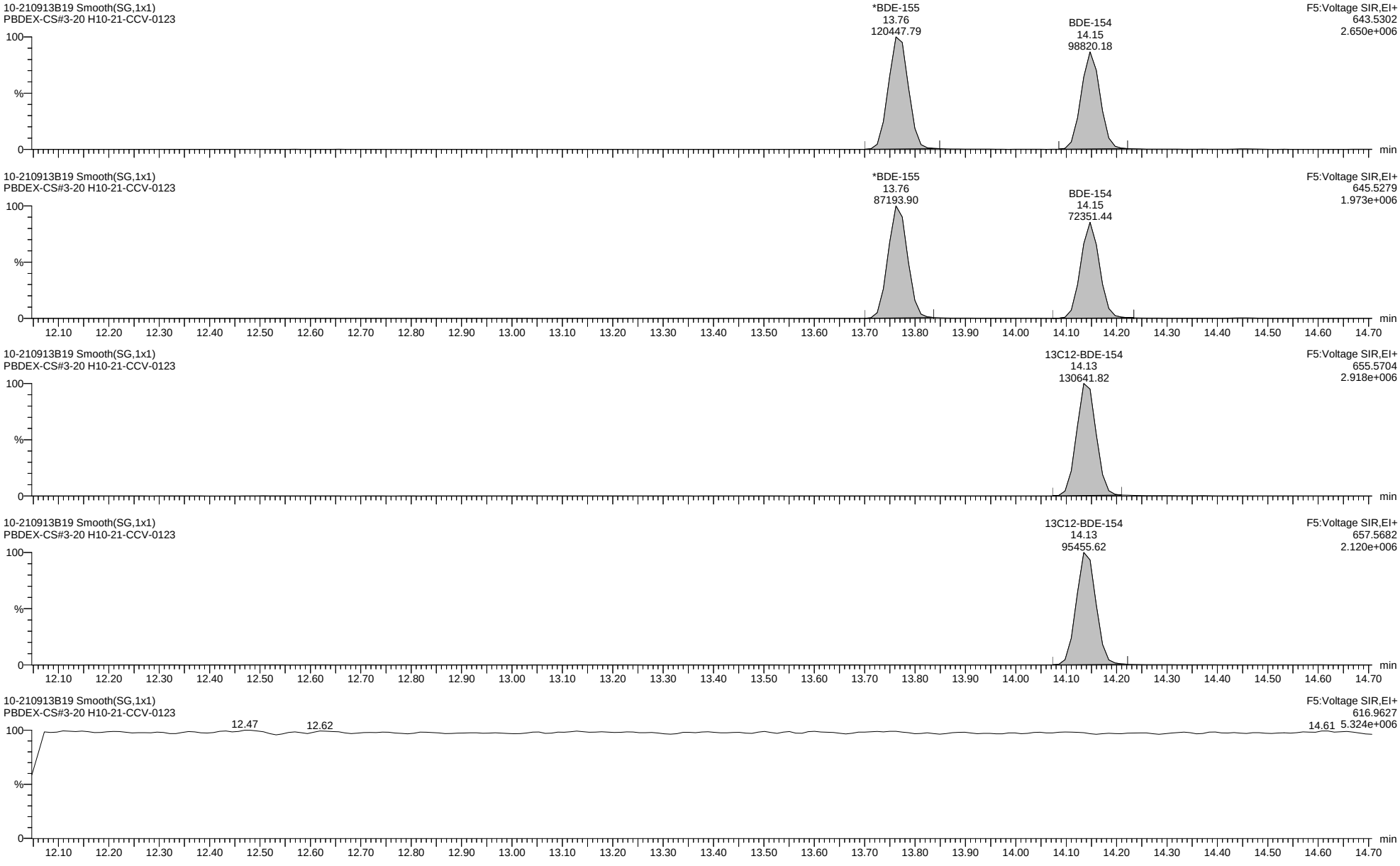
Name: 10-210913B19, Date: 14-Sep-2021, Time: 03:40:24, ID: H10-21-CCV-0123, Description: PBDEX-CS#3-20, Vial: Tray1:1



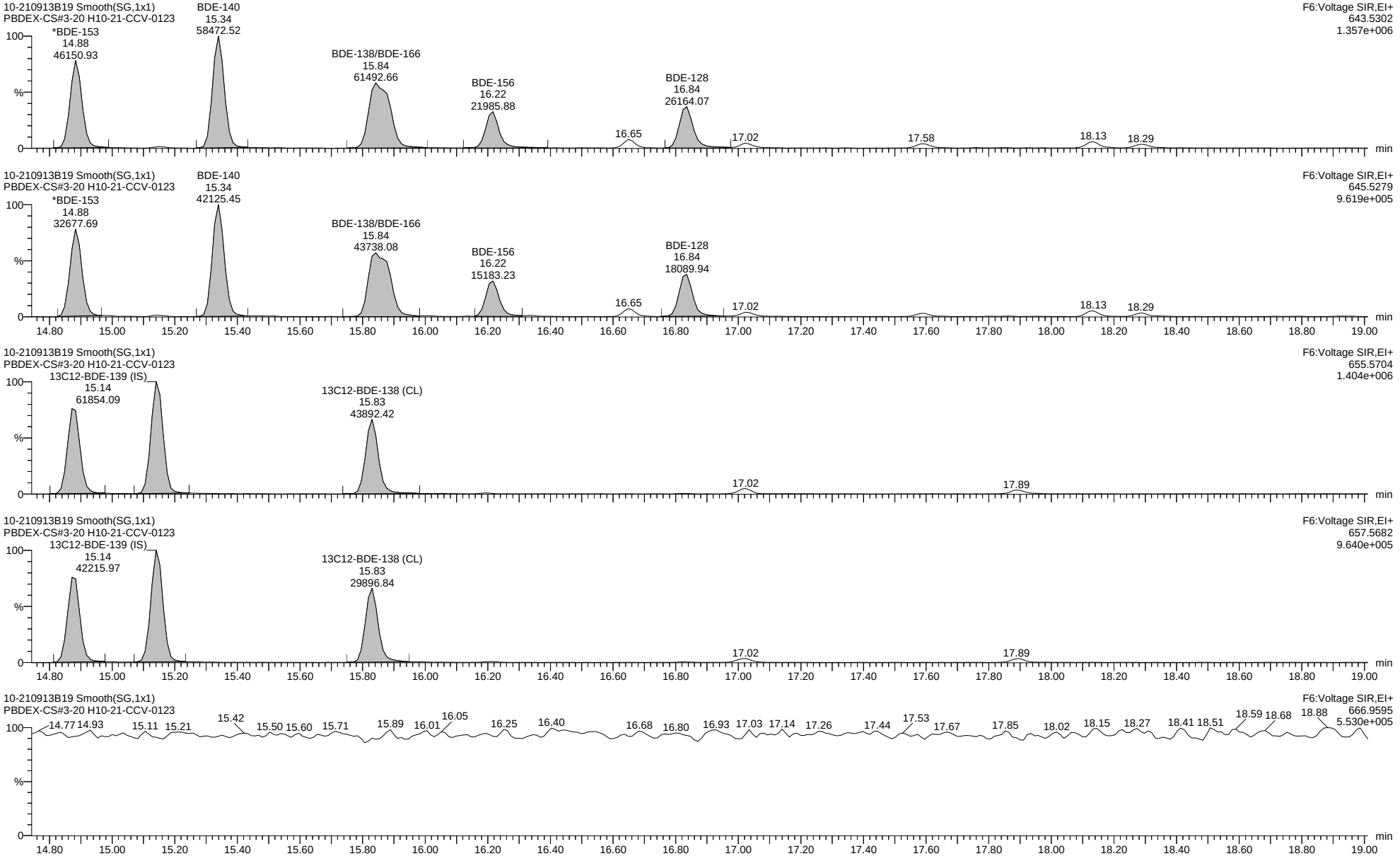
Name: 10-210913B19, Date: 14-Sep-2021, Time: 03:40:24, ID: H10-21-CCV-0123, Description: PBDEX-CS#3-20, Vial: Tray1:1



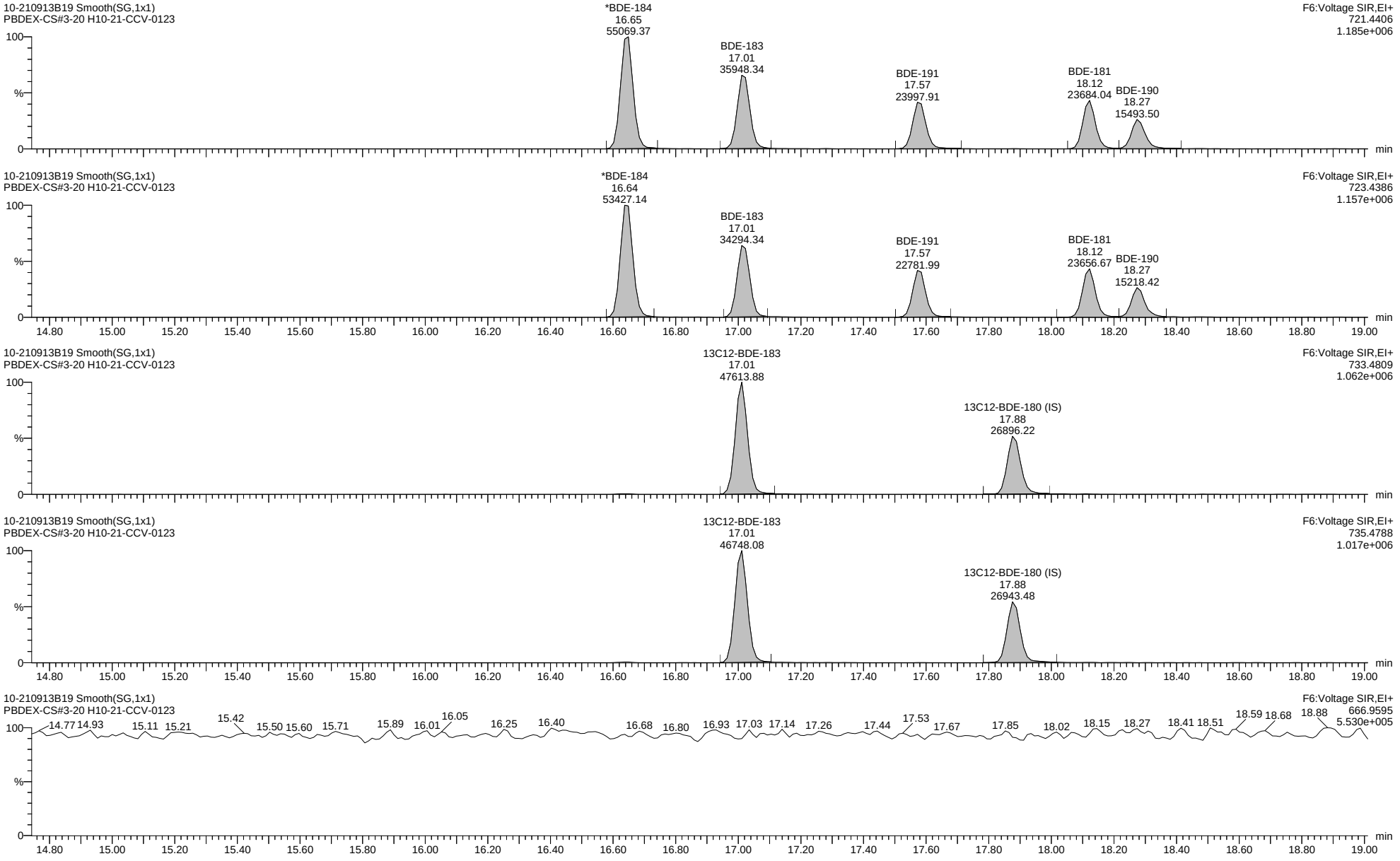
Name: 10-210913B19, Date: 14-Sep-2021, Time: 03:40:24, ID: H10-21-CCV-0123, Description: PBDEX-CS#3-20, Vial: Tray1:1



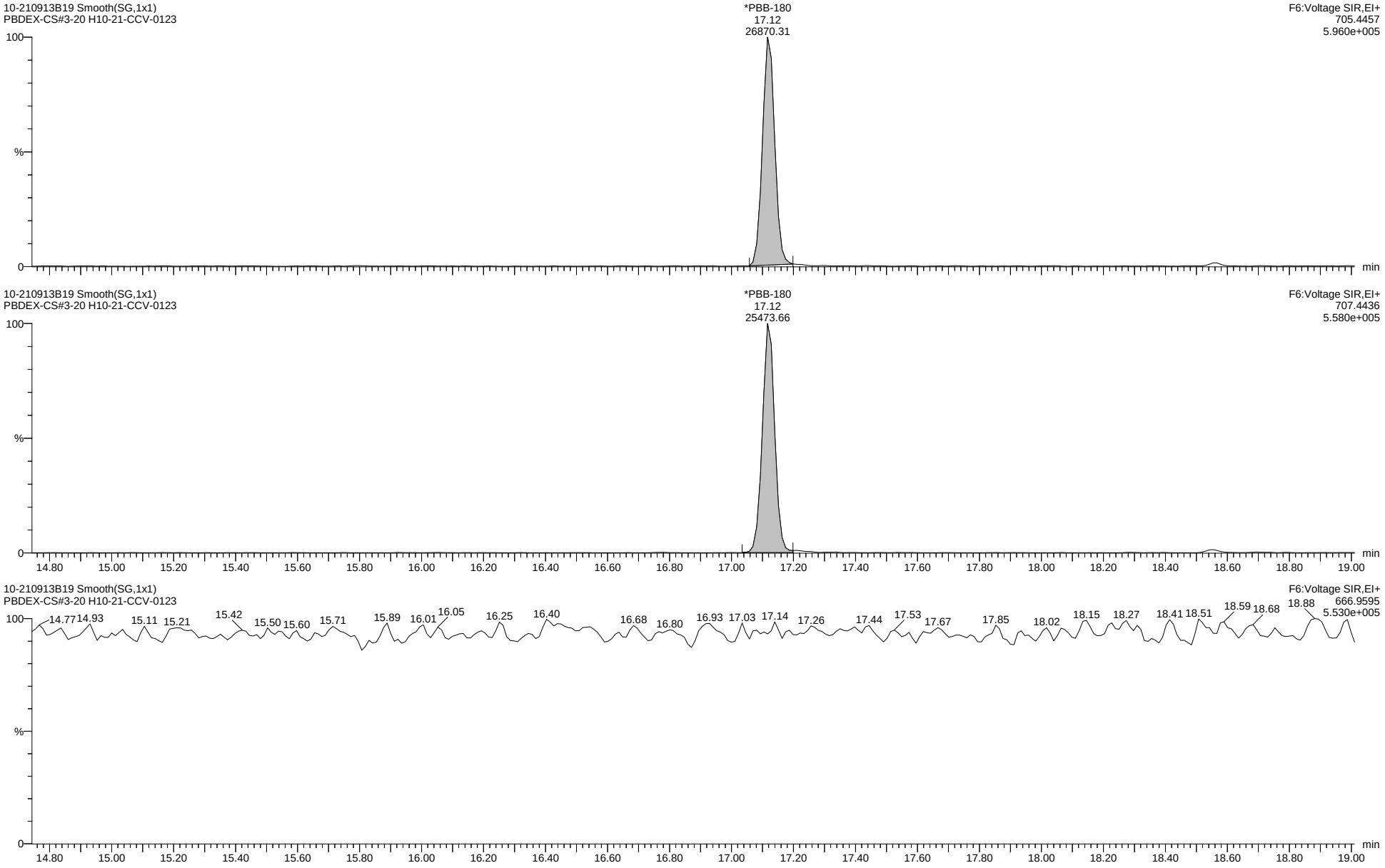
Name: 10-210913B19, Date: 14-Sep-2021, Time: 03:40:24, ID: H10-21-CCV-0123, Description: PBDEX-CS#3-20, Vial: Tray1:1



Name: 10-210913B19, Date: 14-Sep-2021, Time: 03:40:24, ID: H10-21-CCV-0123, Description: PBDEX-CS#3-20, Vial: Tray1:1



Name: 10-210913B19, Date: 14-Sep-2021, Time: 03:40:24, ID: H10-21-CCV-0123, Description: PBDEX-CS#3-20, Vial: Tray1:1

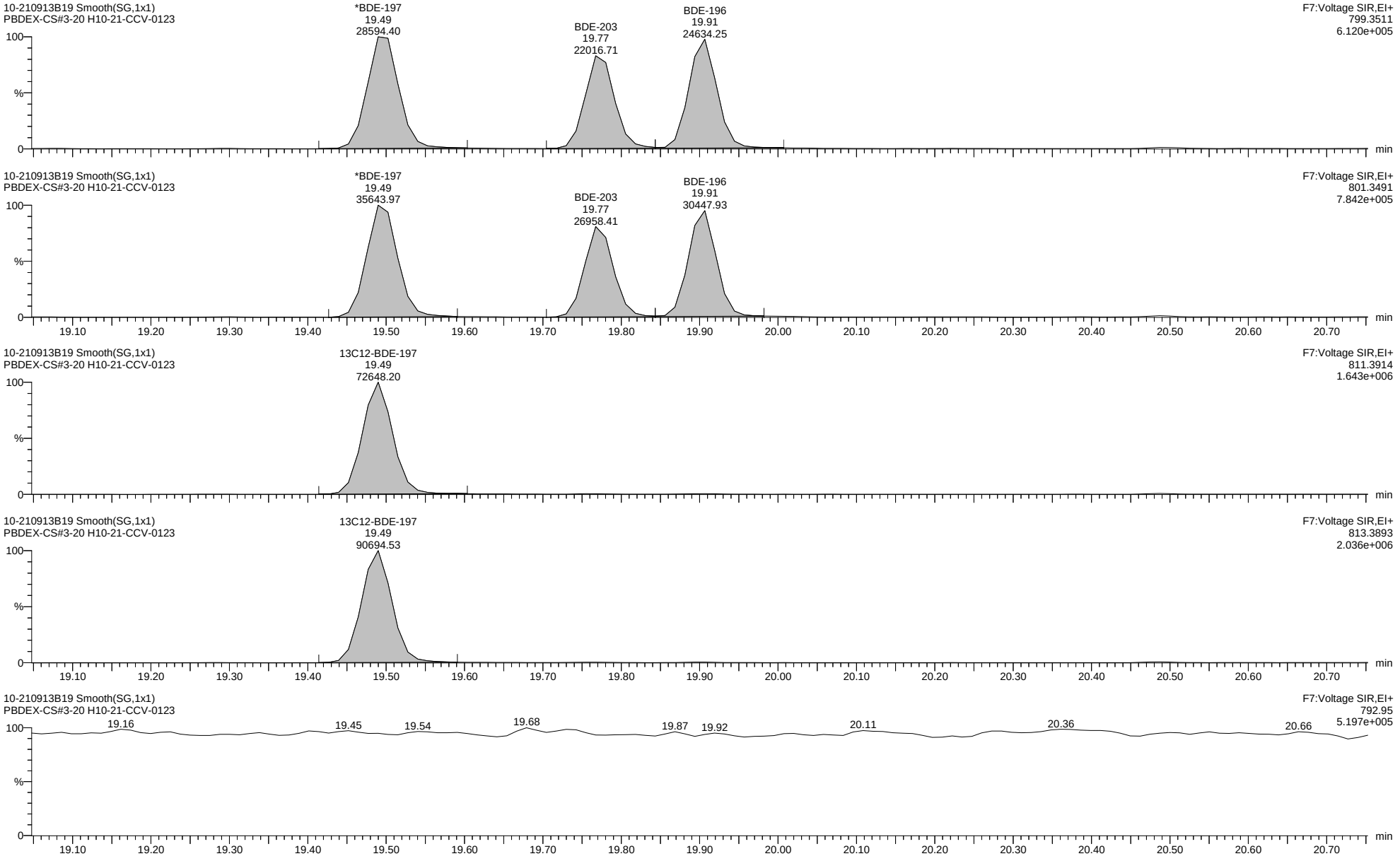


Quantify Sample Template Report **MassLynx MassLynx V4.1 SCN 901**

Dataset: I:\Organics Instrument\HIGHRES GCMS Completed Results Files\HR-10\2021\2109\10-210913B-Q1-PBDE.qld

Last Altered: Thursday, September 16, 2021 14:59:12 Eastern Daylight Time
Printed: Friday, September 17, 2021 10:46:06 Eastern Daylight Time

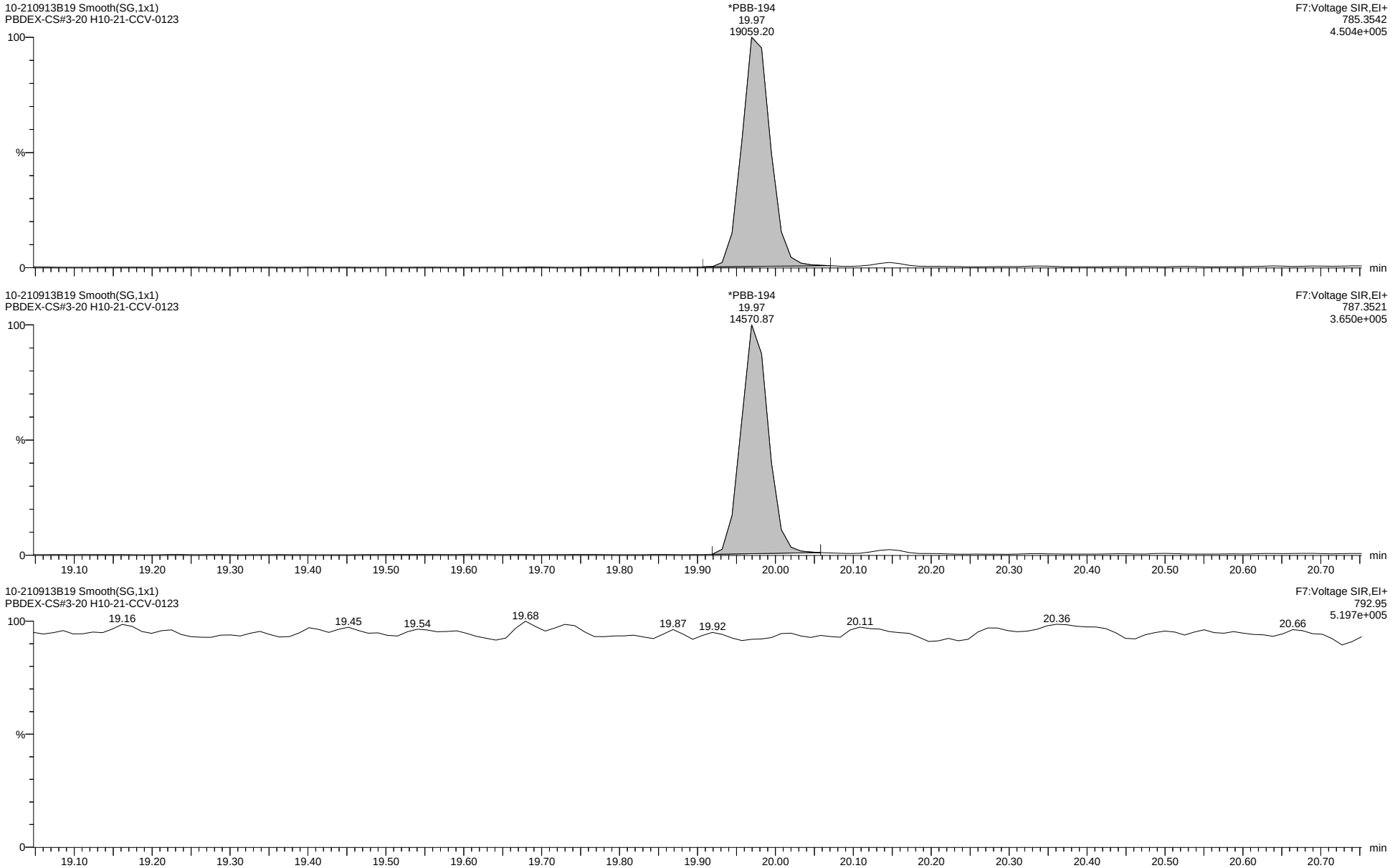
Name: 10-210913B19, Date: 14-Sep-2021, Time: 03:40:24, ID: H10-21-CCV-0123, Description: PBDEX-CS#3-20, Vial: Tray1:1



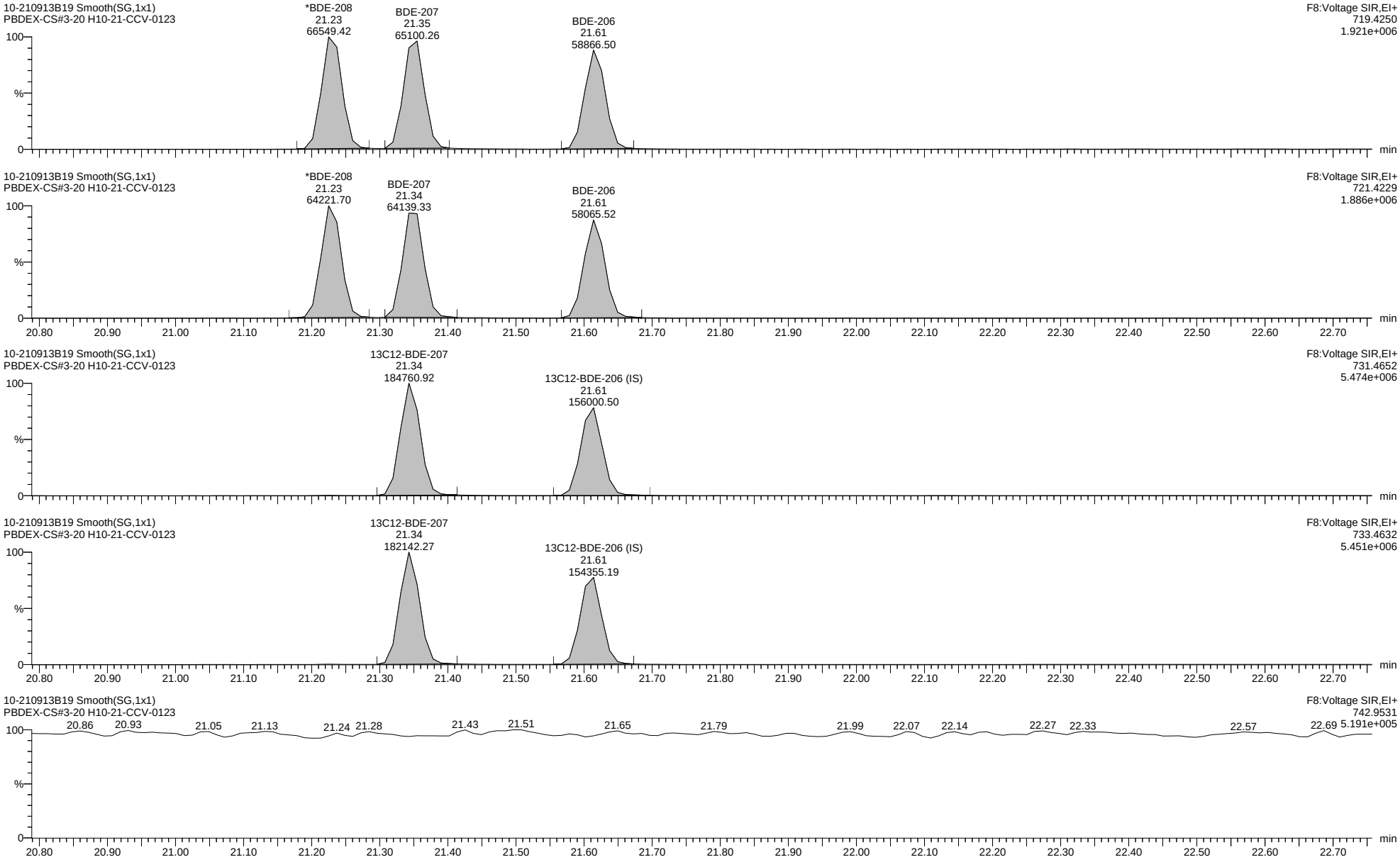
Dataset: I:\Organics Instrument\HIGHRES GCMS Completed Results Files\HR-10\2021\2109\10-210913B-Q1-PBDE.qld

Last Altered: Thursday, September 16, 2021 14:59:12 Eastern Daylight Time
Printed: Friday, September 17, 2021 10:46:06 Eastern Daylight Time

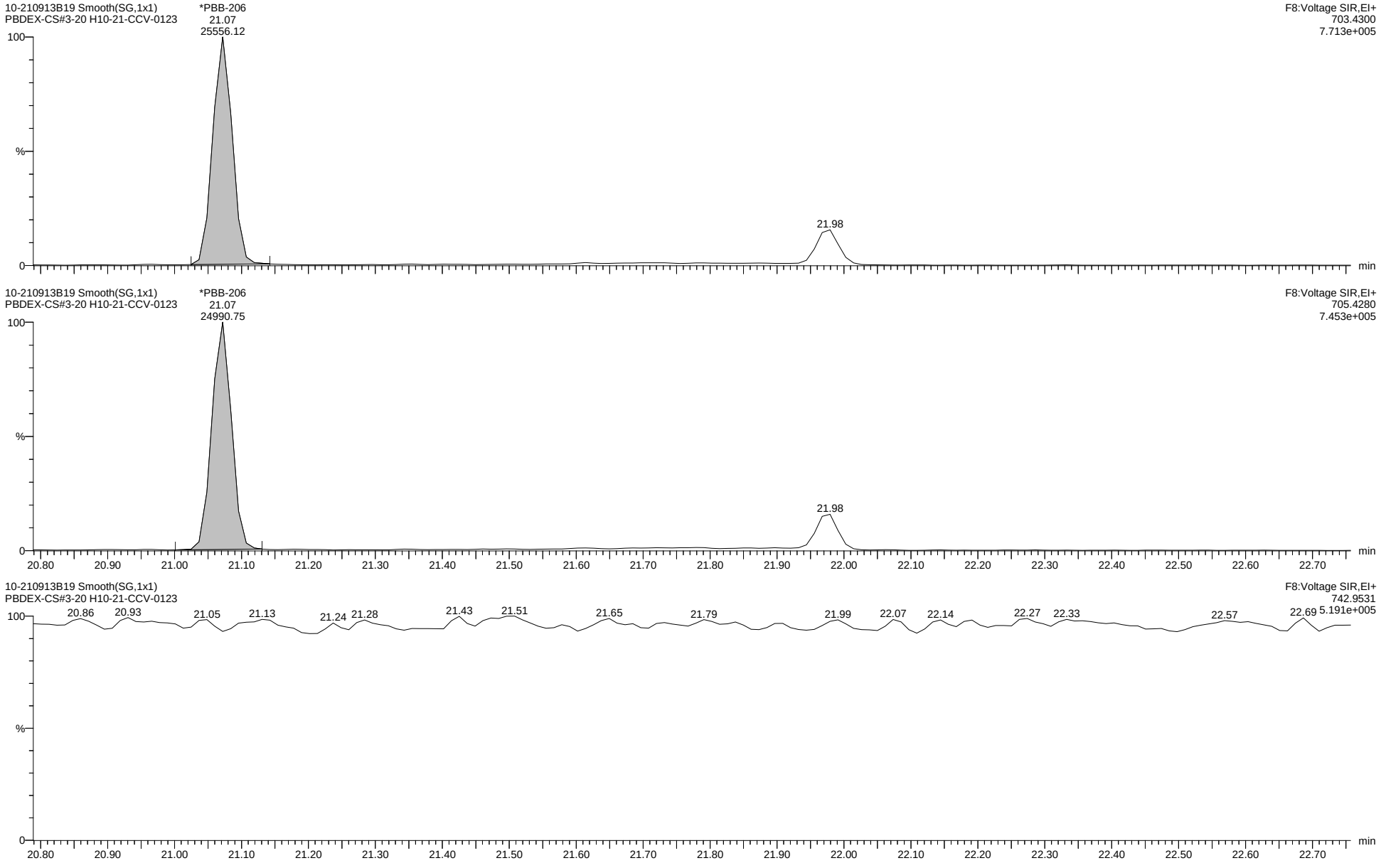
Name: 10-210913B19, Date: 14-Sep-2021, Time: 03:40:24, ID: H10-21-CCV-0123, Description: PBDEX-CS#3-20, Vial: Tray1:1



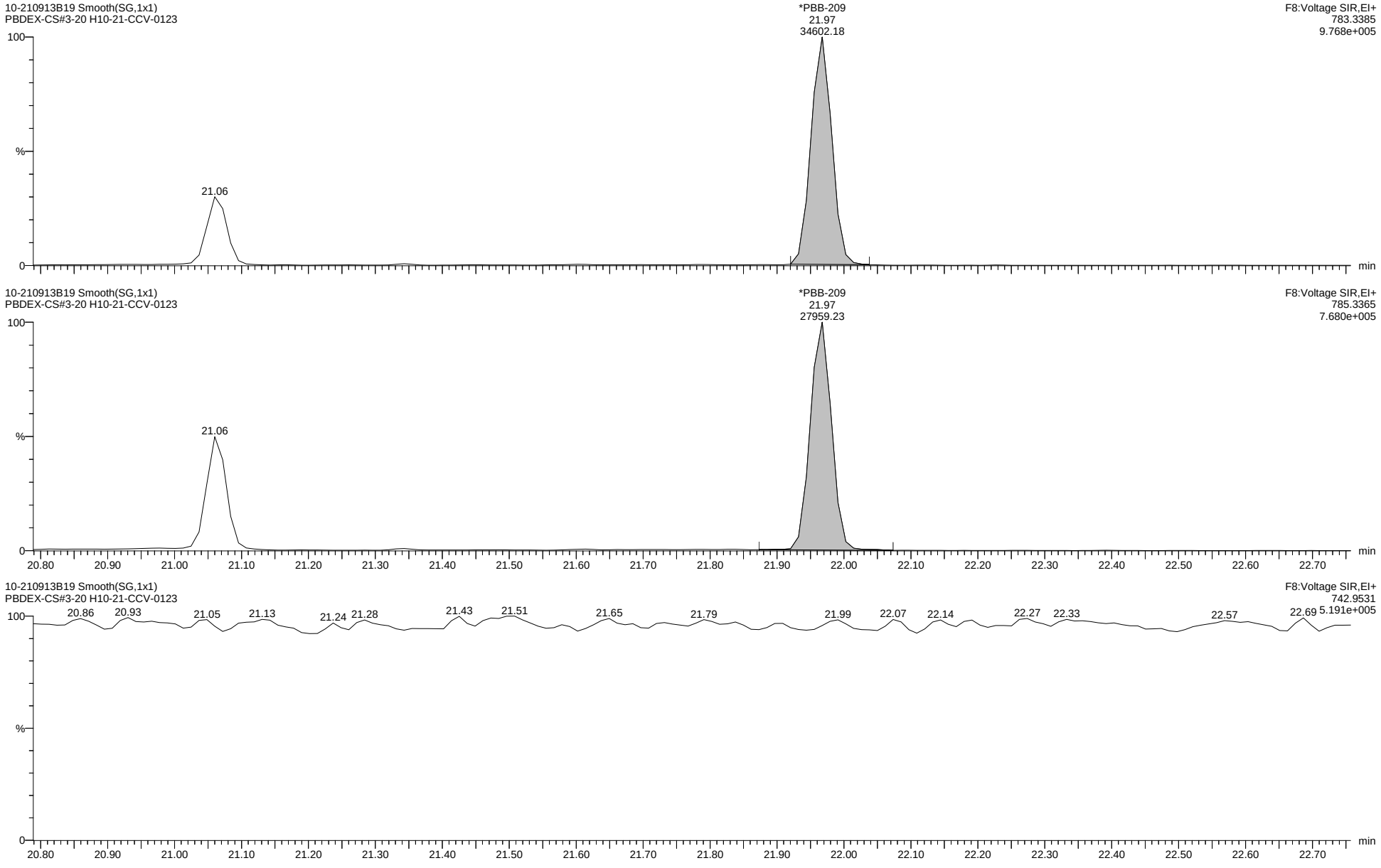
Name: 10-210913B19, Date: 14-Sep-2021, Time: 03:40:24, ID: H10-21-CCV-0123, Description: PBDEX-CS#3-20, Vial: Tray1:1



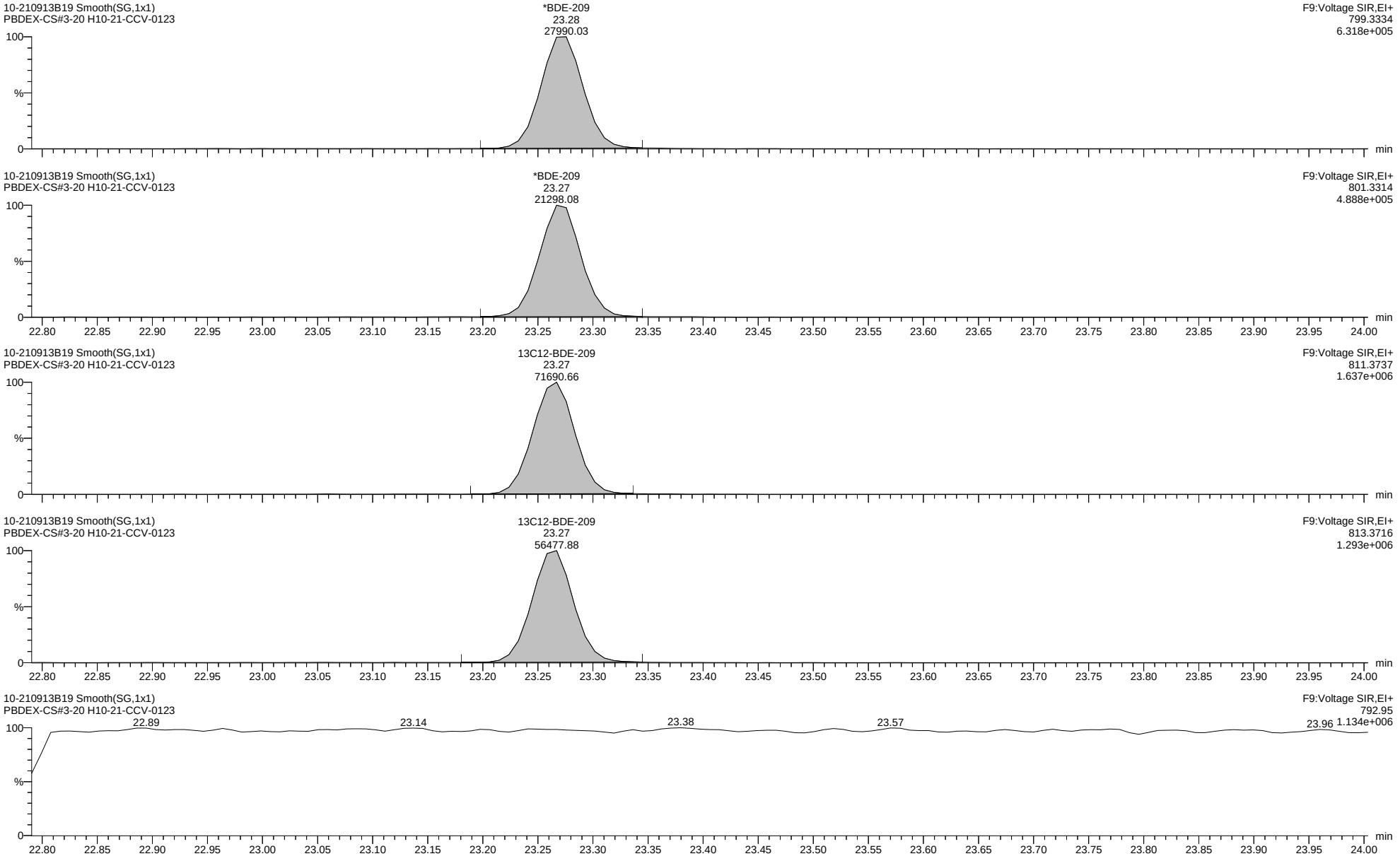
Name: 10-210913B19, Date: 14-Sep-2021, Time: 03:40:24, ID: H10-21-CCV-0123, Description: PBDEX-CS#3-20, Vial: Tray1:1



Name: 10-210913B19, Date: 14-Sep-2021, Time: 03:40:24, ID: H10-21-CCV-0123, Description: PBDEX-CS#3-20, Vial: Tray1:1



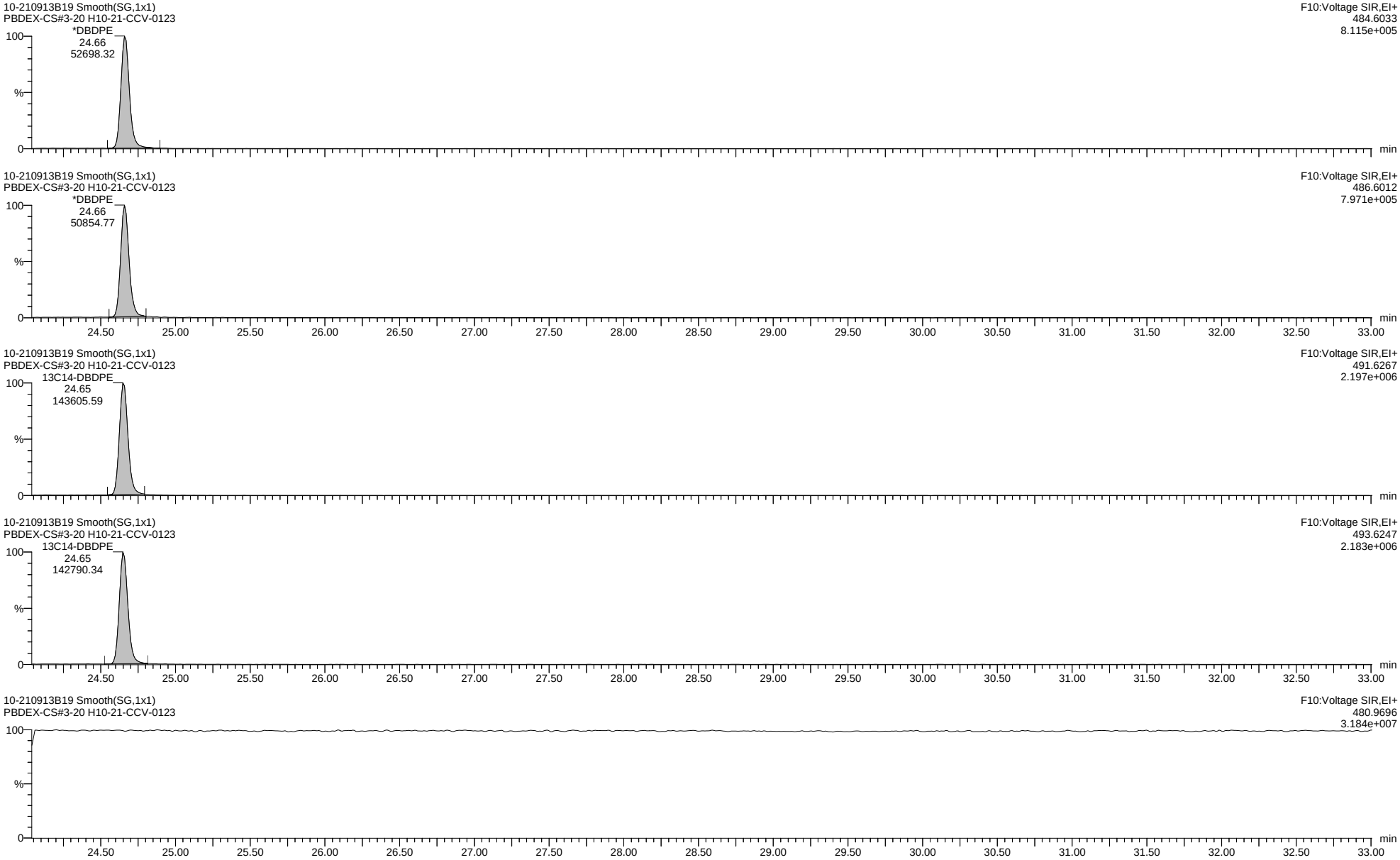
Name: 10-210913B19, Date: 14-Sep-2021, Time: 03:40:24, ID: H10-21-CCV-0123, Description: PBDEX-CS#3-20, Vial: Tray1:1



Dataset: I:\Organics Instrument\HIGHRES GCMS Completed Results Files\HR-10\2021\2109\10-210913B-Q1-PBDE.qld

Last Altered: Thursday, September 16, 2021 14:59:12 Eastern Daylight Time
Printed: Friday, September 17, 2021 10:46:06 Eastern Daylight Time

Name: 10-210913B19, Date: 14-Sep-2021, Time: 03:40:24, ID: H10-21-CCV-0123, Description: PBDEX-CS#3-20, Vial: Tray1:1



Quantify Sample Summary Report **MassLynx MassLynx V4.1 SCN 901**

Dataset: I:\Organics Instrument\HIGHRES GCMS Completed Results Files\HR-10\2021\2109\10-210913B-Q2-PBDE.qld

Last Altered: Tuesday, September 14, 2021 17:08:57 Eastern Daylight Time
Printed: Friday, September 17, 2021 10:47:47 Eastern Daylight Time

Method: C:\MassLynx\PBDE.PRO\MethDB\PBDEX-DB5-1-210913B.mdb 14 Sep 2021 11:10:04
Calibration: C:\MassLynx\PBDE.PRO\CurveDB\10-210913B-ICAL-PBDE.cdb 14 Sep 2021 11:07:06

Name: 10-210913B33, Date: 14-Sep-2021, Time: 14:56:16, ID: H10-21-RS2-0123, Description: PBDEX-RS#2-003, Vial: Tray1:6

	Target Analyte	#Hom	Total Area	Ion1 Area	Ion2 Area	Ra	Ra Fail=YES	RT	RRT	RT LCL	RT UCL	Conc.	%Rec	Mod.Comment	Noise 1	Noise 2
1	*BDE-1		1361972.0...	683736	678236	1.01	NO	4.91	0.96	4.88	4.95	54.838674			28606	47497
2	BDE-2		1985062.4...	967078	1017985	0.95	NO	5.02	0.98	4.98	5.05	54.397933			28606	47497
3	BDE-3		2421205.3...	1203257	1217949	0.99	NO	5.12	1.00	5.09	5.16	55.211155			28606	47497
4	*BDE-10		813602.594	270917	542685	0.50	NO	6.34	0.89	6.31	6.38	58.308641			454	998
5	BDE-7		911154.594	304314	606840	0.50	NO	6.71	0.94	6.68	6.75	64.867917			454	998
6	BDE-8/BDE-11		2341.444	777	1565	0.50	NO	6.90	0.97	6.86	6.93	0.11623109			454	998
7	BDE-12/BDE-13		813.943	251	563	0.45	NO	6.98	0.98	6.95	7.02	0.034962385			454	998
8	BDE-15		1602254.3...	534521	1067733	0.50	NO	7.14	1.00	7.11	7.17	58.029537			454	998
9	*BDE-30		584205.750	293616	290590	1.01	NO	7.84	0.90	7.80	7.87	58.501262			1822	1759
10	BDE-32		1445.560	698	748	0.93	NO	8.28	0.95	8.25	8.32	0.10575268			1822	1759
11	BDE-17/BDE-25		776649.781	394434	382216	1.03	NO	8.45	0.97	8.42	8.48	74.073821			1822	1759
12	BDE-28/BDE-33		842808.251	425562	417247	1.02	NO	8.68	1.00	8.65	8.72	77.210270			1822	1759
13	BDE-35														1822	1759
14	BDE-37		622.187	332	290	1.14	NO	9.02	1.04	8.98	9.05	0.041268904			1822	1759
15	*PBEB		792915.594	405335	387580	1.05	NO	9.03	0.90	8.99	9.06	56.725796			495	515
16	*PBB-52														691	728
17	*HBB		627162.719	180025	447138	0.40	NO	10.01	1.00	9.98	10.04	53.550361			598	853
18	*BDE-75														3955	935
19	BDE-51		1353.719	564	790	0.71	NO	10.13	0.96	10.10	10.17	0.10728727			3955	935
20	BDE-49		886174.188	355684	530491	0.67	NO	10.23	0.97	10.20	10.27	110.24669			3955	935
21	BDE-71		973691.406	391004	582688	0.67	NO	10.31	0.98	10.27	10.34	117.88852			3955	935
22	BDE-47		1331825.3...	533495	798330	0.67	NO	10.57	1.00	10.53	10.60	119.44660			3955	935
23	BDE-79														3955	935
24	BDE-66		769242.562	310045	459197	0.68	NO	10.85	1.03	10.82	10.89	104.19433			3955	935
25	BDE-77		1329354.2...	533921	795433	0.67	NO	11.33	1.00	11.29	11.36	116.86970			3955	935
26	*PBB-101		15176.699	7422	7754	0.96	NO	11.48	1.01	11.44	11.51	1.0158249			507	515
27	*BDE-100		1221315.5...	611781	609535	1.00	NO	12.21	1.00	12.18	12.24	121.10843			1816	2354
28	BDE-119/BDE-120		744462.594	369034	375429	0.98	NO	12.37	1.01	12.34	12.40	150.56130			1816	2354
29	BDE-99		826321.688	416107	410214	1.01	NO	12.71	1.00	12.67	12.74	120.68325			1816	2354
30	BDE-116														1816	2354
31	BDE-83														1816	2354
32	BDE-118		2951.099	1285	1667	0.77	YES	13.09	1.03	13.06	13.12	0.71363787			1816	2354
33	BDE-85		638987.281	321366	317621	1.01	NO	13.60	0.99	13.57	13.63	133.75856			1816	2354
34	BDE-126		948183.344	474874	473309	1.00	NO	13.77	1.00	13.74	13.81	123.30051			1816	2354

Quantify Sample Summary Report **MassLynx MassLynx V4.1 SCN 901**

Dataset: I:\Organics Instrument\HIGHRES GCMS Completed Results Files\HR-10\2021\2109\10-210913B-Q2-PBDE.qld

Last Altered: Tuesday, September 14, 2021 17:08:57 Eastern Daylight Time
Printed: Friday, September 17, 2021 10:47:47 Eastern Daylight Time

Name: 10-210913B33, Date: 14-Sep-2021, Time: 14:56:16, ID: H10-21-RS2-0123, Description: PBDEX-RS#2-003, Vial: Tray1:6

	Target Analyte	#Hom	Total Area	Ion1 Area	Ion2 Area	Ra	Ra Fail=YES	RT	RRT	RT LCL	RT UCL	Conc.	%Rec	Mod.Comment	Noise 1	Noise 2
35	BDE-105														1816	2354
36	*PBB-153		1019858.0...	588272	431586	1.36	NO	14.10	1.00	14.06	14.13	108.28134			905	774
37	*BDE-155		3608.256	2128	1481	1.44	NO	13.77	0.97	13.74	13.81	0.30879966			656	437
38	BDE-154		1079268.0...	621679	457589	1.36	NO	14.15	1.00	14.11	14.18	112.33988			656	437
39	*BDE-153		506698.250	297330	209369	1.42	NO	14.88	1.00	14.85	14.92	106.91928			2688	3276
40	BDE-140		602848.859	351600	251249	1.40	NO	15.34	1.01	15.31	15.37	114.38233			2688	3276
41	BDE-138/BDE-166		422090.141	246710	175380	1.41	NO	15.84	1.06	15.81	15.88	145.26920			2688	3276
42	BDE-156		889651.219	523162	366489	1.43	NO	16.22	1.09	16.18	16.25	473.65527			2688	3276
43	BDE-128		963.560	693	271	2.56	YES	16.81	0.99	16.78	16.85	0.44885011			2688	3276
44	*BDE-184		1221535.4...	614328	607207	1.01	NO	16.65	0.98	16.62	16.68	216.41409			849	1084
45	BDE-183		1042431.7...	521247	521185	1.00	NO	17.02	1.00	16.99	17.06	274.50029			849	1084
46	BDE-191		552560.531	277996	274565	1.01	NO	17.58	1.03	17.55	17.62	235.47306			849	1084
47	BDE-181														849	1084
48	BDE-190														849	1084
49	*PBB-180														594	224
50	*BDE-197		1458988.3...	653761	805228	0.81	NO	19.50	1.00	19.47	19.54	390.37872			1925	1373
51	BDE-203		508513.782	228427	280087	0.82	NO	19.78	1.01	19.75	19.81	186.99948			1925	1373
52	BDE-196		600652.344	269454	331198	0.81	NO	19.91	1.02	19.87	19.94	192.56756			1925	1373
53	*PBB-194														196	231
54	*BDE-208		1760442.3...	893245	867197	1.03	NO	21.24	0.99	21.20	21.27	553.37439			2508	2545
55	BDE-207		2266283.7...	1138073	1128211	1.01	NO	21.35	1.00	21.32	21.39	614.91318			2508	2545
56	BDE-206		1709625.5...	861654	847971	1.02	NO	21.63	1.01	21.59	21.66	613.84643			2508	2545
57	*PBB-206														220	508
58	*PBB-209														269	201
59	*BDE-209		557452.251	318498	238955	1.33	NO	23.28	1.00	23.25	23.32	581.14449			1325	822
60	*DBDPE		834020.532	430635	403385	1.07	NO	24.68	1.00	24.65	24.71	1103.0891			662	813
61	13C12-BDE-3		2753014.3...	1375664	1377351	1.00	NO	5.11	0.48	5.08	5.15	37.261005	74.5		1418	2728
62	13C12-BDE-15		1628480.5...	542454	1086026	0.50	NO	7.14	0.67	7.11	7.17	40.404069	80.8		2806	5651
63	13C12-BDE-28		816294.844	409001	407294	1.00	NO	8.68	0.81	8.65	8.72	44.479484	89.0		749	962
64	13C6-HBB		559123.282	404887	154236	2.63	NO	10.01	0.93	9.98	10.04	42.325430	84.7		1417	1149
65	13C12-BDE-47		664269.563	402809	261461	1.54	NO	10.57	0.98	10.53	10.60	52.184618	104.4		3515	1983
66	13C12-BDE-77		718360.407	436158	282202	1.55	NO	11.33	1.06	11.29	11.36	53.562358	107.1		3515	1983
67	13C12-BDE-100		661004.282	331300	329705	1.00	NO	12.20	0.81	12.16	12.23	40.733575	81.5		1128	1025
68	13C12-BDE-99		415532.438	206990	208543	0.99	NO	12.71	0.84	12.67	12.74	43.671025	87.3		1128	1025
69	13C12-BDE-126		490945.719	249855	241091	1.04	NO	13.77	0.91	13.74	13.81	45.854814	91.7		1128	1025
70	13C12-BDE-154		525058.875	302607	222452	1.36	NO	14.13	0.93	14.10	14.17	40.047189	80.1		1070	464
71	13C12-BDE-153		204389.945	119460	84930	1.41	NO	14.88	0.98	14.85	14.92	46.095000	92.2		1774	1201

Quantify Sample Summary Report **MassLynx MassLynx V4.1 SCN 901**

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Last Altered: Tuesday, September 14, 2021 17:08:57 Eastern Daylight Time
Printed: Friday, September 17, 2021 10:47:47 Eastern Daylight Time

Name: 10-210913B33, Date: 14-Sep-2021, Time: 14:56:16, ID: H10-21-RS2-0123, Description: PBDEX-RS#2-003, Vial: Tray1:6

	Target Analyte	#Hom	Total Area	Ion1 Area	Ion2 Area	Ra	Ra Fail=YES	RT	RRT	RT LCL	RT UCL	Conc.	%Rec	Mod.Comment	Noise 1	Noise 2
72	13C12-BDE-183		254238.438	128402	125836	1.02	NO	17.01	0.95	16.98	17.04	39.025989	78.1		588	600
73	13C12-BDE-197		475107.094	217046	258061	0.84	NO	19.49	1.09	19.46	19.52	94.514475	94.5		944	493
74	13C12-BDE-207		1013282.6...	508777	504506	1.01	NO	21.35	0.99	21.32	21.39	244.13882	97.7		1450	1208
75	13C12-BDE-209		248362.422	139984	108378	1.29	NO	23.28	1.08	23.24	23.31	232.10219	92.8		1949	1163
76	13C14-DBDPE		424435.110	213991	210444	1.02	NO	24.67	1.14	24.64	24.70	531.64246	106.3		1079	1078
77	13C12-BDE-138 (CL)		176409.969	102366	74044	1.38	NO	15.83	1.05	15.80	15.86	47.248280	94.5		1774	1201
78	13C12-BDE-79 (IS)		730859.406	445110	285750	1.56	NO	10.73	0.71	10.70	10.76	83.776741	167.6		3515	1983
79	13C12-BDE-139 (IS)		260760.391	154583	106178	1.46	NO	15.14	0.00	15.11	15.17	103.47242	206.9		1774	1201
80	13C12-BDE-180 (IS)		154114.375	77974	76140	1.02	NO	17.89	1.18	17.85	17.92	131.13228	262.3		588	600
81	13C12-BDE-206 (IS)		781306.250	394316	386990	1.02	NO	21.63	1.43	21.59	21.66	541.15216	216.5		1450	1208
82	Total MoF1	3		2854070								164.44776			28606	
83	Total DiF2	5		1110781								181.35729			454	
84	Total TriF3	5		1114641								209.93237			1822	
85	Total PBEBF3	1		405335								56.725796			495	
86	Total TePBBF3			0											691	
87	Total HBBF4	1		180025								53.550361			598	
88	Total TetraF4	6		2124713								568.75312			3955	
89	Total PePBBF4	1		7422								1.0158249			507	
90	Total PentaF5	6		2194447								650.12569			1816	
91	Total PBB-153	1		588272								108.28134			905	
92	Total HexaF5	2		623807								112.64868			656	
93	Total HexaF6	5		1419495								840.67493			2688	
94	Total HeptaF6	3		1413571								726.38744			849	
95	Total PBB-180			0											594	
96	Total OctaF7	3		1151641								769.94576			1925	
97	Total PBB-194			0											196	
98	Total NonaF8	3		2892972								1782.1340			2508	
99	Total PBB-206			0											220	
100	Total PBB-209			0											269	
101	Total DecaF9	1		318498								581.14449			1325	
102	Total DBDPEF10															
103	Total 13CMoF1	1		1375664								37.261005			1418	
104	Total 13CDiF2	1		542454								40.404069			2806	
105	Total 13CTriF3	1		409001								44.479484			749	
106	Total 13CHBBF4	1		404887								42.325430			1417	
107	Total 13CTetraF4	3		1284077								189.52372			3515	
108	Total 13CPentaF5	3		788144								130.25941			1128	

Quantify Sample Summary Report **MassLynx MassLynx V4.1 SCN 901**

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Last Altered: Tuesday, September 14, 2021 17:08:57 Eastern Daylight Time
Printed: Friday, September 17, 2021 10:47:47 Eastern Daylight Time

Name: 10-210913B33, Date: 14-Sep-2021, Time: 14:56:16, ID: H10-21-RS2-0123, Description: PBDEX-RS#2-003, Vial: Tray1:6

	Target Analyte	#Hom	Total Area	Ion1 Area	Ion2 Area	Ra	Ra Fail=YES	RT	RRT	RT LCL	RT UCL	Conc.	%Rec	Mod.Comment	Noise 1	Noise 2
109	Total 13CHexaF5	1		302607								40.047189			1070	
110	Total 13CHexaF6	3		376409								196.81570			1774	
111	Total 13CHeptaF6	2		206377								170.15827			588	
112	Total 13COctaF7	1		217046								94.514475			944	
113	Total 13CNonaF8	2		903093								785.29098			1450	
114	Total 13CDecaF9	1		139984								232.10219			1949	
115	Total 13CDBDPEF10															
116	Lockmass F1			0											422501	
117	Lockmass F2			0											781929	
118	Lockmass F3			0											325748	
119	Lockmass F4			0											95208	
120	Lockmass F5			0											71511	
121	Lockmass F6			0											37029	
122	Lockmass F7			0											15629	
123	Lockmass F8			0											22905	
124	Lockmass F9			0											19705	
125	Lockmass F10															

Quantify Sample Summary Report **MassLynx MassLynx V4.1 SCN 901**

Dataset: I:\Organics Instrument\HIGHRES GCMS Completed Results Files\HR-10\2021\2109\10-210913B-Q2-PBDE.qld

Last Altered: Tuesday, September 14, 2021 17:08:57 Eastern Daylight Time
Printed: Friday, September 17, 2021 10:47:47 Eastern Daylight Time

Name: 10-210913B34, Date: 14-Sep-2021, Time: 15:31:07, ID: H10-21-CCV-0125, Description: PBDEX-CS#3-003, Vial: Tray1:1

	Target Analyte	#Hom	Total Area	Ion1 Area	Ion2 Area	Ra	Ra Fail=YES	RT	RRT	RT LCL	RT UCL	Conc.	%Rec	Mod.Comment	Noise 1	Noise 2
1	*BDE-1		477491.969	237446	240046	0.99	NO	4.90	0.96	4.87	4.94	19.102128	95.5		25033	34125
2	BDE-2		709123.125	363705	345418	1.05	NO	5.01	0.98	4.97	5.04	19.307533	96.5		25033	34125
3	BDE-3		882366.406	439337	443030	0.99	NO	5.11	1.00	5.08	5.15	19.991302	100.0		25033	34125
4	*BDE-10		284187.265	93970	190217	0.49	NO	6.33	0.89	6.30	6.37	20.971619	104.9		1175	637
5	BDE-7		287072.406	93960	193112	0.49	NO	6.71	0.94	6.67	6.74	21.044377	105.2		1175	637
6	BDE-8/BDE-11		816696.907	273045	543652	0.50	NO	6.87	0.96	6.84	6.90	41.745165	104.4		1175	637
7	BDE-12/BDE-13		930592.500	311753	618840	0.50	NO	6.99	0.98	6.96	7.02	41.159809	102.9		1175	637
8	BDE-15		553703.829	183343	370361	0.50	NO	7.14	1.00	7.11	7.17	20.649138	103.2		1175	637
9	*BDE-30		193014.867	97167	95847	1.01	NO	7.83	0.90	7.79	7.86	21.054392	105.3		1447	2340
10	BDE-32		266264.578	134934	131331	1.03	NO	8.28	0.96	8.25	8.32	21.218817	106.1		1447	2340
11	BDE-17/BDE-25		404765.359	204248	200517	1.02	NO	8.45	0.97	8.42	8.48	42.052845	105.1		1447	2340
12	BDE-28/BDE-33		412682.703	209813	202870	1.03	NO	8.67	1.00	8.64	8.71	41.182725	103.0		1447	2340
13	BDE-35		280796.469	142141	138656	1.03	NO	8.83	1.02	8.79	8.86	20.296276	101.5		1447	2340
14	BDE-37		280383.344	141245	139138	1.02	NO	9.02	1.04	8.98	9.05	20.258474	101.3		1447	2340
15	*PBEB		270318.235	138389	131930	1.05	NO	9.03	0.90	8.99	9.06	22.333481	111.7		496	517
16	*PBB-52		279715.539	168692	111023	1.52	NO	9.13	0.91	9.09	9.16	22.875438	114.4		921	528
17	*HBB		210129.348	60062	150067	0.40	NO	10.01	1.00	9.98	10.04	20.720313	103.6		486	473
18	*BDE-75		169734.594	68075	101659	0.67	NO	10.07	0.95	10.04	10.10	20.166306	100.8		1279	1893
19	BDE-51		215097.860	86962	128136	0.68	NO	10.13	0.96	10.10	10.17	21.542879	107.7		1279	1893
20	BDE-49		137853.395	55025	82829	0.66	NO	10.23	0.97	10.20	10.27	21.672646	108.4		1279	1893
21	BDE-71		141529.309	58377	83153	0.70	NO	10.29	0.98	10.26	10.33	21.654320	108.3		1279	1893
22	BDE-47		188780.883	76023	112758	0.67	NO	10.57	1.00	10.53	10.60	21.285485	106.4		1279	1893
23	BDE-79		218848.008	88210	130638	0.68	NO	10.73	1.02	10.70	10.76	21.997104	110.0		1279	1893
24	BDE-66		125957.699	51740	74217	0.70	NO	10.85	1.03	10.82	10.89	21.560234	107.8		1279	1893
25	BDE-77		191389.797	78572	112817	0.70	NO	11.33	1.00	11.29	11.36	21.365745	106.8		1279	1893
26	*PBB-101		475826.531	242794	233032	1.04	NO	11.46	1.01	11.43	11.50	40.247433	100.6		1048	796
27	*BDE-100		271751.062	136847	134904	1.01	NO	12.20	1.00	12.16	12.23	31.624761	105.4		1651	1532
28	BDE-119/BDE-120		245735.117	124088	121647	1.02	NO	12.37	1.01	12.34	12.40	61.846317	103.1		1651	1532
29	BDE-99		171444.289	86529	84915	1.02	NO	12.71	1.00	12.67	12.74	31.859573	106.2		1651	1532
30	BDE-116		74473.082	37849	36625	1.03	NO	12.85	1.01	12.82	12.89	28.785265	96.0		1651	1532
31	BDE-83		86539.469	44531	42008	1.06	NO	12.99	1.02	12.96	13.03	29.670407	98.9		1651	1532
32	BDE-118		98604.019	50415	48189	1.05	NO	13.12	1.03	13.08	13.15	29.673233	98.9		1651	1532
33	BDE-85		113670.738	57376	56294	1.02	NO	13.60	0.99	13.57	13.63	29.611077	98.7		1651	1532
34	BDE-126		186284.109	94584	91700	1.03	NO	13.77	1.00	13.74	13.81	32.163096	107.2		1651	1532
35	BDE-105		99322.883	51050	48273	1.06	NO	13.92	1.01	13.89	13.96	29.599179	98.7		1651	1532
36	*PBB-153		314456.594	181343	133114	1.36	NO	14.10	1.00	14.06	14.13	40.565873	101.4		391	851
37	*BDE-155		403067.641	233183	169884	1.37	NO	13.76	0.97	13.73	13.80	41.912505	104.8		598	319

Quantify Sample Summary Report **MassLynx MassLynx V4.1 SCN 901**

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Last Altered: Tuesday, September 14, 2021 17:08:57 Eastern Daylight Time
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Name: 10-210913B34, Date: 14-Sep-2021, Time: 15:31:07, ID: H10-21-CCV-0125, Description: PBDEX-CS#3-003, Vial: Tray1:1

	Target Analyte	#Hom	Total Area	Ion1 Area	Ion2 Area	Ra	Ra Fail=YES	RT	RRT	RT LCL	RT UCL	Conc.	%Rec	Mod.Comment	Noise 1	Noise 2
38	BDE-154		346845.016	200606	146239	1.37	NO	14.15	1.00	14.11	14.18	42.514722	106.3		598	319
39	*BDE-153		148174.520	85695	62479	1.37	NO	14.88	1.00	14.85	14.92	41.366891	103.4		2141	1605
40	BDE-140		177251.774	102451	74801	1.37	NO	15.34	1.01	15.31	15.37	40.862724	102.2		2141	1605
41	BDE-138/BDE-166		190307.360	110995	79313	1.40	NO	15.87	1.07	15.83	15.90	79.581135	99.5		2141	1605
42	BDE-156		60454.969	35867	24588	1.46	NO	16.22	1.09	16.18	16.25	39.107569	97.8		2141	1605
43	BDE-128		68162.412	39875	28287	1.41	NO	16.84	0.99	16.80	16.87	38.579247	96.4		2141	1605
44	*BDE-184		190448.625	95550	94898	1.01	NO	16.64	0.98	16.60	16.67	49.190464	98.4		685	871
45	BDE-183		131249.391	65211	66039	0.99	NO	17.01	1.00	16.98	17.04	50.386718	100.8		685	871
46	BDE-191		75248.898	37948	37301	1.02	NO	17.57	1.03	17.54	17.61	46.750376	93.5		685	871
47	BDE-181		73365.590	37016	36350	1.02	NO	18.12	1.01	18.09	18.16	44.982234	90.0		685	871
48	BDE-190		47185.113	23695	23491	1.01	NO	18.27	1.02	18.24	18.31	42.822529	85.6		685	871
49	*PBB-180		94563.218	47523	47041	1.01	NO	17.12	0.96	17.08	17.15	39.213191	98.0		1124	538
50	*BDE-197		101686.188	45367	56320	0.81	NO	19.49	1.00	19.46	19.52	52.091043	104.2		1168	1122
51	BDE-203		59596.670	26497	33100	0.80	NO	19.77	1.01	19.73	19.80	41.959126	83.9		1168	1122
52	BDE-196		73065.670	32754	40312	0.81	NO	19.91	1.02	19.87	19.94	44.847690	89.7		1168	1122
53	*PBB-194		44893.889	25441	19453	1.31	NO	19.97	1.02	19.94	20.00	35.401341	88.5		581	436
54	*BDE-208		147921.360	74901	73020	1.03	NO	21.23	0.99	21.19	21.26	89.958823	90.0		1485	832
55	BDE-207		200517.696	99476	101042	0.98	NO	21.35	1.00	21.32	21.39	105.26108	105.3		1485	832
56	BDE-206		151541.648	76450	75092	1.02	NO	21.61	1.01	21.58	21.65	105.27042	105.3		1485	832
57	*PBB-206		58207.974	29383	28825	1.02	NO	21.07	0.99	21.04	21.11	89.118422	89.1		1186	1906
58	*PBB-209		59005.054	32540	26465	1.23	NO	21.97	1.03	21.93	22.00	79.027942	79.0		1051	1301
59	*BDE-209		37269.840	20707	16563	1.25	NO	23.27	1.00	23.23	23.30	96.394820	96.4		535	266
60	*DBDPE		61577.029	30875	30702	1.01	NO	24.66	1.00	24.63	24.69	199.08127	99.5		340	405
61	13C12-BDE-3		2770840.7...	1361723	1409117	0.97	NO	5.10	0.48	5.07	5.14	43.571279	87.1		1789	1940
62	13C12-BDE-15		1581524.1...	528794	1052730	0.50	NO	7.13	0.67	7.10	7.16	45.589100	91.2		2203	4281
63	13C12-BDE-28		749366.938	377859	371508	1.02	NO	8.67	0.81	8.64	8.71	47.440566	94.9		1629	1864
64	13C6-HBB		484150.234	347480	136671	2.54	NO	10.00	0.93	9.96	10.03	42.581073	85.2		1091	828
65	13C12-BDE-47		528378.734	320348	208030	1.54	NO	10.56	0.98	10.52	10.59	48.226544	96.5		2234	1790
66	13C12-BDE-77		565723.672	337083	228641	1.47	NO	11.31	1.06	11.28	11.35	49.007699	98.0		2234	1790
67	13C12-BDE-100		563241.656	284665	278576	1.02	NO	12.20	0.81	12.16	12.23	49.385225	98.8		1817	2624
68	13C12-BDE-99		326577.188	163796	162781	1.01	NO	12.69	0.84	12.66	12.73	48.834677	97.7		1817	2624
69	13C12-BDE-126		369763.453	188026	181738	1.03	NO	13.76	0.91	13.73	13.80	49.139356	98.3		1817	2624
70	13C12-BDE-154		445870.485	259320	186550	1.39	NO	14.13	0.93	14.10	14.17	48.386787	96.8		714	635
71	13C12-BDE-153		154485.172	91581	62904	1.46	NO	14.87	0.98	14.84	14.91	49.571849	99.1		959	991
72	13C12-BDE-183		174388.406	87630	86758	1.01	NO	17.01	0.95	16.98	17.04	49.990905	100.0		728	721
73	13C12-BDE-197		248155.985	111777	136379	0.82	NO	19.49	1.09	19.46	19.52	92.191790	92.2		729	440
74	13C12-BDE-207		523739.094	263193	260547	1.01	NO	21.34	0.99	21.31	21.38	244.01636	97.6		1654	1150

Quantify Sample Summary Report **MassLynx MassLynx V4.1 SCN 901**

Dataset: I:\Organics Instrument\HIGHRES GCMS Completed Results Files\HR-10\2021\2109\10-210913B-Q2-PBDE.qld

Last Altered: Tuesday, September 14, 2021 17:08:57 Eastern Daylight Time
Printed: Friday, September 17, 2021 10:47:47 Eastern Daylight Time

Name: 10-210913B34, Date: 14-Sep-2021, Time: 15:31:07, ID: H10-21-CCV-0125, Description: PBDEX-CS#3-003, Vial: Tray1:1

	Target Analyte	#Hom	Total Area	Ion1 Area	Ion2 Area	Ra	Ra Fail=YES	RT	RRT	RT LCL	RT UCL	Conc.	%Rec	Mod.Comment	Noise 1	Noise 2
75	13C12-BDE-209		100107.398	56151	43956	1.28	NO	23.26	1.08	23.22	23.29	180.90778	72.4		1172	1386
76	13C14-DBDPE		173633.492	87463	86170	1.01	NO	24.65	1.14	24.61	24.68	420.57125	84.1		823	976
77	13C12-BDE-138 (CL)		130751.981	77553	53199	1.46	NO	15.83	1.05	15.80	15.86	49.827050	99.7		959	991
78	13C12-BDE-79 (IS)		629058.719	383179	245879	1.56	NO	10.72	0.71	10.68	10.75	72.107561	144.2		2234	1790
79	13C12-BDE-139 (IS)		183268.406	108171	75098	1.44	NO	15.14	0.00	15.11	15.17	72.722800	145.4		959	991
80	13C12-BDE-180 (IS)		82524.418	41438	41087	1.01	NO	17.88	1.18	17.84	17.91	70.218076	140.4		728	721
81	13C12-BDE-206 (IS)		404039.265	204333	199706	1.02	NO	21.61	1.43	21.58	21.65	279.84765	111.9		1654	1150
82	Total MoF1	3		1040488								58.400963			25033	
83	Total DiF2	5		956072								145.57011			1175	
84	Total TriF3	6		929548								166.06353			1447	
85	Total PBEBF3	1		138389								22.333481			496	
86	Total TePBBF3	1		168692								22.875438			921	
87	Total HBBF4	1		60062								20.720313			486	
88	Total TetraF4	8		562984								171.24472			1279	
89	Total PePBBF4	1		242794								40.247433			1048	
90	Total PentaF5	9		683270								304.83291			1651	
91	Total PBB-153	1		181343								40.565873			391	
92	Total HexaF5	2		433789								84.427227			598	
93	Total HexaF6	5		374882								239.49757			2141	
94	Total HeptaF6	5		259419								234.13232			685	
95	Total PBB-180	1		47523								39.213191			1124	
96	Total OctaF7	3		104617								138.89786			1168	
97	Total PBB-194	1		25441								35.401341			581	
98	Total NonaF8	3		250827								300.49033			1485	
99	Total PBB-206	1		29383								89.118422			1186	
100	Total PBB-209	1		32540								79.027942			1051	
101	Total DecaF9	1		20707								96.394820			535	
102	Total DBDPEF10															
103	Total 13CMoF1	1		1361723								43.571279			1789	
104	Total 13CDiF2	1		528794								45.589100			2203	
105	Total 13CTriF3	1		377859								47.440566			1629	
106	Total 13CHBBF4	1		347480								42.581073			1091	
107	Total 13CTetraF4	3		1040610								169.34180			2234	
108	Total 13CPentaF5	3		636487								147.35926			1817	
109	Total 13CHexaF5	1		259320								48.386787			714	
110	Total 13CHexaF6	3		277305								172.12170			959	
111	Total 13CHeptaF6	2		129068								120.20898			728	

Quantify Sample Summary Report **MassLynx MassLynx V4.1 SCN 901**

Dataset: I:\Organics Instrument\HIGHRES GCMS Completed Results Files\HR-10\2021\2109\10-210913B-Q2-PBDE.qld

Last Altered: Tuesday, September 14, 2021 17:08:57 Eastern Daylight Time
Printed: Friday, September 17, 2021 10:47:47 Eastern Daylight Time

Name: 10-210913B34, Date: 14-Sep-2021, Time: 15:31:07, ID: H10-21-CCV-0125, Description: PBDEX-CS#3-003, Vial: Tray1:1

	Target Analyte	#Hom	Total Area	Ion1 Area	Ion2 Area	Ra	Ra Fail=YES	RT	RRT	RT LCL	RT UCL	Conc.	%Rec	Mod.Comment	Noise 1	Noise 2
112	Total 13COctaF7	1		111777								92.191790			729	
113	Total 13CNonaF8	2		467526								523.86402			1654	
114	Total 13CDecaF9	1		56151								180.90778			1172	
115	Total 13CDBDPEF10															
116	Lockmass F1			0											258987	
117	Lockmass F2			0											533146	
118	Lockmass F3			0											267513	
119	Lockmass F4			0											123650	
120	Lockmass F5			0											65580	
121	Lockmass F6			0											28236	
122	Lockmass F7			0											18507	
123	Lockmass F8			0											21985	
124	Lockmass F9			0											31286	
125	Lockmass F10															

Quantify Sample Summary Report **MassLynx MassLynx V4.1 SCN 901**

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Last Altered: Tuesday, September 14, 2021 17:08:57 Eastern Daylight Time
Printed: Friday, September 17, 2021 10:47:47 Eastern Daylight Time

Name: 10-210913B35, Date: 14-Sep-2021, Time: 16:22:34, ID: H10-21-RS3-0123, Description: PBDEX-RS#2-003, Vial: Tray1:10

	Target Analyte	#Hom	Total Area	Ion1 Area	Ion2 Area	Ra	Ra Fail=YES	RT	RRT	RT LCL	RT UCL	Conc.	%Rec	Mod.Comment	Noise 1	Noise 2
1	*BDE-1		3134.853	452	2683	0.17	YES	4.89	0.96	4.86	4.93	0.13600953			21127	46609
2	BDE-2														21127	46609
3	BDE-3		3314.946	514	2801	0.18	YES	5.13	1.00	5.10	5.17	0.081452618			21127	46609
4	*BDE-10														441	604
5	BDE-7														441	604
6	BDE-8/BDE-11														441	604
7	BDE-12/BDE-13														441	604
8	BDE-15														441	604
9	*BDE-30														1432	1466
10	BDE-32		1914.903	897	1017	0.88	NO	8.29	0.96	8.26	8.33	0.16816551			1432	1466
11	BDE-17/BDE-25		596302.438	299538	296765	1.01	NO	8.45	0.97	8.42	8.48	68.271747			1432	1466
12	BDE-28/BDE-33		621559.626	310871	310689	1.00	NO	8.68	1.00	8.65	8.72	68.354010			1432	1466
13	BDE-35														1432	1466
14	BDE-37														1432	1466
15	*PBEB														390	214
16	*PBB-52														776	405
17	*HBB														323	245
18	*BDE-75														1384	1540
19	BDE-51		633.889	269	365	0.74	NO	10.15	0.96	10.11	10.18	0.070084504			1384	1540
20	BDE-49														1384	1540
21	BDE-71		328780.984	132010	196771	0.67	NO	10.31	0.98	10.27	10.34	55.532340			1384	1540
22	BDE-47		466254.797	187018	279236	0.67	NO	10.57	1.00	10.53	10.60	56.312037			1384	1540
23	BDE-79														1384	1540
24	BDE-66		295050.133	119364	175686	0.68	NO	10.85	1.03	10.82	10.89	55.752674			1384	1540
25	BDE-77		1149.174	555	594	0.94	YES	11.33	1.00	11.29	11.36	0.14578665			1384	1540
26	*PBB-101														440	491
27	*BDE-100		439336.313	222173	217164	1.02	NO	12.21	1.00	12.18	12.24	56.073214			1164	1472
28	BDE-119/BDE-120														1164	1472
29	BDE-99		290421.453	145859	144563	1.01	NO	12.72	1.00	12.68	12.75	58.052878			1164	1472
30	BDE-116														1164	1472
31	BDE-83														1164	1472
32	BDE-118														1164	1472
33	BDE-85		196398.086	100296	96102	1.04	NO	13.61	0.99	13.58	13.65	57.931198			1164	1472
34	BDE-126														1164	1472
35	BDE-105		1287.643	893	394	2.27	YES	13.94	1.01	13.90	13.97	0.43450578			1164	1472
36	*PBB-153														327	664
37	*BDE-155														654	478

Quantify Sample Summary Report **MassLynx MassLynx V4.1 SCN 901**

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Last Altered: Tuesday, September 14, 2021 17:08:57 Eastern Daylight Time
Printed: Friday, September 17, 2021 10:47:47 Eastern Daylight Time

Name: 10-210913B35, Date: 14-Sep-2021, Time: 16:22:34, ID: H10-21-RS3-0123, Description: PBDEX-RS#2-003, Vial: Tray1:10

	Target Analyte	#Hom	Total Area	Ion1 Area	Ion2 Area	Ra	Ra Fail=YES	RT	RRT	RT LCL	RT UCL	Conc.	%Rec	Mod.Comment	Noise 1	Noise 2
38	BDE-154		378296.157	218668	159628	1.37	NO	14.15	1.00	14.11	14.18	52.519639			654	478
39	*BDE-153		153544.504	90475	63069	1.43	NO	14.90	1.00	14.86	14.93	49.124995			1844	1025
40	BDE-140		2260.518	1166	1094	1.07	YES	15.34	1.01	15.31	15.37	0.59202222			1844	1025
41	BDE-138/BDE-166		192754.875	111562	81192	1.37	NO	15.84	1.06	15.81	15.88	91.570003			1844	1025
42	BDE-156														1844	1025
43	BDE-128														1844	1025
44	*BDE-184														334	438
45	BDE-183		116065.382	58745	57320	1.02	NO	17.02	1.00	16.99	17.06	56.777733			334	438
46	BDE-191														334	438
47	BDE-181														334	438
48	BDE-190		37560.885	18859	18702	1.01	NO	18.29	1.02	18.25	18.32	43.436988			334	438
49	*PBB-180														665	291
50	*BDE-197														267	216
51	BDE-203														267	216
52	BDE-196														267	216
53	*PBB-194														188	235
54	*BDE-208														1102	535
55	BDE-207		766.598	365	402	0.91	NO	21.35	1.00	21.32	21.39	0.65156331			1102	535
56	BDE-206		1408.642	689	720	0.96	NO	21.63	1.01	21.59	21.66	1.5843415			1102	535
57	*PBB-206														340	430
58	*PBB-209														297	945
59	*BDE-209		64464.369	36237	28228	1.28	NO	23.28	1.00	23.24	23.31	183.14206			484	536
60	*DBDPE														187	365
61	13C12-BDE-3		2554907.0...	1261361	1293546	0.98	NO	5.11	0.48	5.08	5.15	44.544668	89.1		1258	1888
62	13C12-BDE-15		1395525.6...	462502	933023	0.50	NO	7.14	0.67	7.11	7.17	44.602059	89.2		2062	4525
63	13C12-BDE-28		680005.063	344752	335253	1.03	NO	8.68	0.81	8.65	8.72	47.730872	95.5		1629	1976
64	13C6-HBB		421403.781	303500	117903	2.57	NO	10.01	0.93	9.98	10.04	41.092898	82.2		1095	1058
65	13C12-BDE-47		493279.359	296115	197164	1.50	NO	10.57	0.98	10.53	10.60	49.918972	99.8		2263	2293
66	13C12-BDE-77		497819.203	298819	199000	1.50	NO	11.33	1.06	11.29	11.36	47.814926	95.6		2263	2293
67	13C12-BDE-100		513561.453	258398	255163	1.01	NO	12.21	0.81	12.18	12.24	50.432013	100.9		2250	2438
68	13C12-BDE-99		303604.156	152407	151197	1.01	NO	12.71	0.84	12.67	12.74	50.846585	101.7		2250	2438
69	13C12-BDE-126		295223.719	148555	146668	1.01	NO	13.77	0.91	13.74	13.81	43.940838	87.9		2250	2438
70	13C12-BDE-154		393661.376	227872	165789	1.37	NO	14.15	0.93	14.11	14.18	47.846753	95.7		887	493
71	13C12-BDE-153		134802.488	78901	55902	1.41	NO	14.88	0.98	14.85	14.92	48.445989	96.9		1415	1213
72	13C12-BDE-183		136855.117	68648	68207	1.01	NO	17.01	0.95	16.98	17.04	52.786608	105.6		834	652
73	13C12-BDE-197		181022.648	81465	99557	0.82	NO	19.50	1.09	19.47	19.54	90.487738	90.5		907	464
74	13C12-BDE-207		323475.344	162367	161109	1.01	NO	21.35	0.99	21.32	21.39	240.21939	96.1		1833	1484

Quantify Sample Summary Report **MassLynx MassLynx V4.1 SCN 901**

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Name: 10-210913B35, Date: 14-Sep-2021, Time: 16:22:34, ID: H10-21-RS3-0123, Description: PBDEX-RS#2-003, Vial: Tray1:10

	Target Analyte	#Hom	Total Area	Ion1 Area	Ion2 Area	Ra	Ra Fail=YES	RT	RRT	RT LCL	RT UCL	Conc.	%Rec	Mod.Comment	Noise 1	Noise 2
75	13C12-BDE-209		91136.844	52348	38788	1.35	NO	23.28	1.08	23.24	23.31	262.51128	105.0		798	941
76	13C14-DBDPE		116243.445	58237	58006	1.00	NO	24.66	1.14	24.62	24.69	448.78411	89.8		699	966
77	13C12-BDE-138 (CL)		110745.715	66786	43960	1.52	NO	15.84	1.05	15.81	15.88	47.266717	94.5		1415	1213
78	13C12-BDE-79 (IS)		567360.766	340403	226958	1.50	NO	10.73	0.71	10.70	10.76	65.035266	130.1		2263	2293
79	13C12-BDE-139 (IS)		163634.922	94857	68778	1.38	NO	15.15	0.00	15.12	15.19	64.932030	129.9		1415	1213
80	13C12-BDE-180 (IS)		61332.850	30922	30410	1.02	NO	17.89	1.18	17.85	17.92	52.186672	104.4		834	652
81	13C12-BDE-206 (IS)		253489.898	129818	123672	1.05	NO	21.61	1.43	21.58	21.65	175.57341	70.2		1833	1484
82	Total MoF1	2		966								0.21746214			21127	
83	Total DiF2			0											441	
84	Total TriF3	3		611306								136.79392			1432	
85	Total PBEBF3			0											390	
86	Total TePBBF3			0											776	
87	Total HBBF4			0											323	
88	Total TetraF4	5		439216								167.81292			1384	
89	Total PePBBF4			0											440	
90	Total PentaF5	4		469221								172.49180			1164	
91	Total PBB-153			0											327	
92	Total HexaF5	1		218668								52.519639			654	
93	Total HexaF6	3		203204								141.28702			1844	
94	Total HeptaF6	2		77604								100.21472			334	
95	Total PBB-180			0											665	
96	Total OctaF7			0											267	
97	Total PBB-194			0											188	
98	Total NonaF8	2		1054								2.2359048			1102	
99	Total PBB-206			0											340	
100	Total PBB-209			0											297	
101	Total DecaF9	1		36237								183.14206			484	
102	Total DBDPEF10															
103	Total 13CMoF1	1		1261361								44.544668			1258	
104	Total 13CDiF2	1		462502								44.602059			2062	
105	Total 13CTriF3	1		344752								47.730872			1629	
106	Total 13CHBBF4	1		303500								41.092898			1095	
107	Total 13CTetraF4	3		935337								162.76916			2263	
108	Total 13CPentaF5	3		559361								145.21944			2250	
109	Total 13CHexaF5	1		227872								47.846753			887	
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Quantify Sample Summary Report **MassLynx MassLynx V4.1 SCN 901**

Dataset: I:\Organics Instrument\HIGHRES GCMS Completed Results Files\HR-10\2021\2109\10-210913B-Q2-PBDE.qld

Last Altered: Tuesday, September 14, 2021 17:08:57 Eastern Daylight Time
Printed: Friday, September 17, 2021 10:47:47 Eastern Daylight Time

Name: 10-210913B35, Date: 14-Sep-2021, Time: 16:22:34, ID: H10-21-RS3-0123, Description: PBDEX-RS#2-003, Vial: Tray1:10

	Target Analyte	#Hom	Total Area	Ion1 Area	Ion2 Area	Ra	Ra Fail=YES	RT	RRT	RT LCL	RT UCL	Conc.	%Rec	Mod.Comment	Noise 1	Noise 2
112	Total 13COctaF7	1		81465								90.487738			907	
113	Total 13CNonaF8	2		292185								415.79280			1833	
114	Total 13CDecaF9	1		52348								262.51128			798	
115	Total 13CDBDPEF10															
116	Lockmass F1			0											230422	
117	Lockmass F2			0											703742	
118	Lockmass F3			0											323511	
119	Lockmass F4			0											123205	
120	Lockmass F5			0											73660	
121	Lockmass F6			0											30029	
122	Lockmass F7			0											20372	
123	Lockmass F8			0											19424	
124	Lockmass F9			0											28394	
125	Lockmass F10															

Quantify Audit Report MassLynx MassLynx V4.1 SCN 901

Dataset: I:\Organics Instrument\HIGHRES GCMS Completed Results Files\HR-10\2021\2109\10-210913B-Q2-PBDE.qld

Last Altered: Tuesday, September 14, 2021 17:08:57 Eastern Daylight Time
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Date	Time	Event	Details	Comments
14-Sep-21	17:08:52	Process Extract		
14-Sep-21	17:08:52	Process Integrate		
14-Sep-21	17:08:52	Process Quantify		
14-Sep-21	17:08:57	Dataset Created		
14-Sep-21	17:20:45	Dataset Saved	Saved to 'I:\Organics Instrument\HIGHRES GCMS Complete...	

Quantify Sample Template Report **MassLynx MassLynx V4.1 SCN 901**

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Last Altered: Tuesday, September 14, 2021 17:08:57 Eastern Daylight Time
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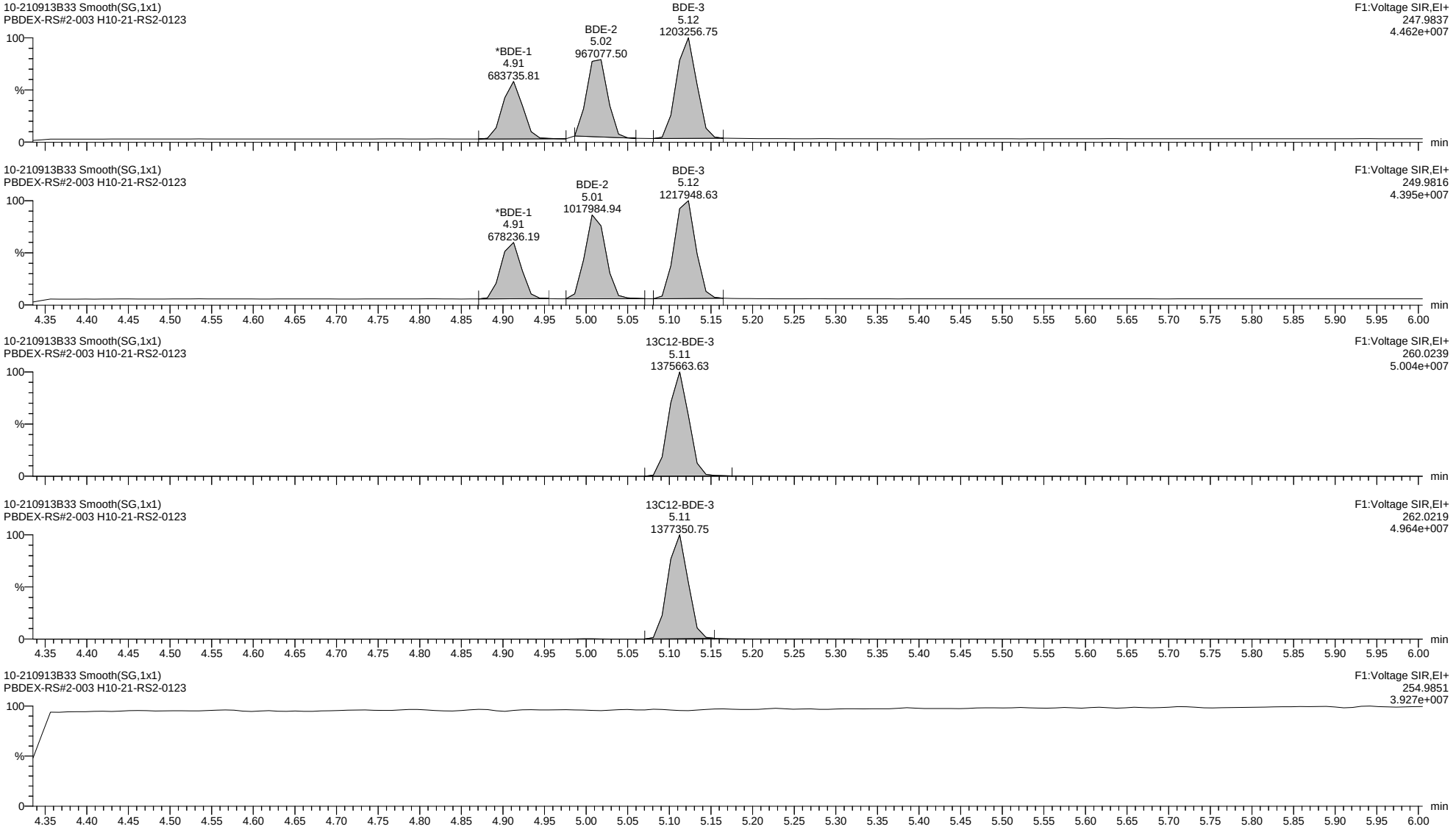
Calibration: C:\MassLynx\PBDE.PRO\CurveDB\10-210913B-ICAL-PBDE.cdb 14 Sep 2021 11:07:06

Name: 10-210913B33, Date: 14-Sep-2021, Time: 14:56:16, ID: H10-21-RS2-0123, Description: PBDEX-RS#2-003, Vial: Tray1:6



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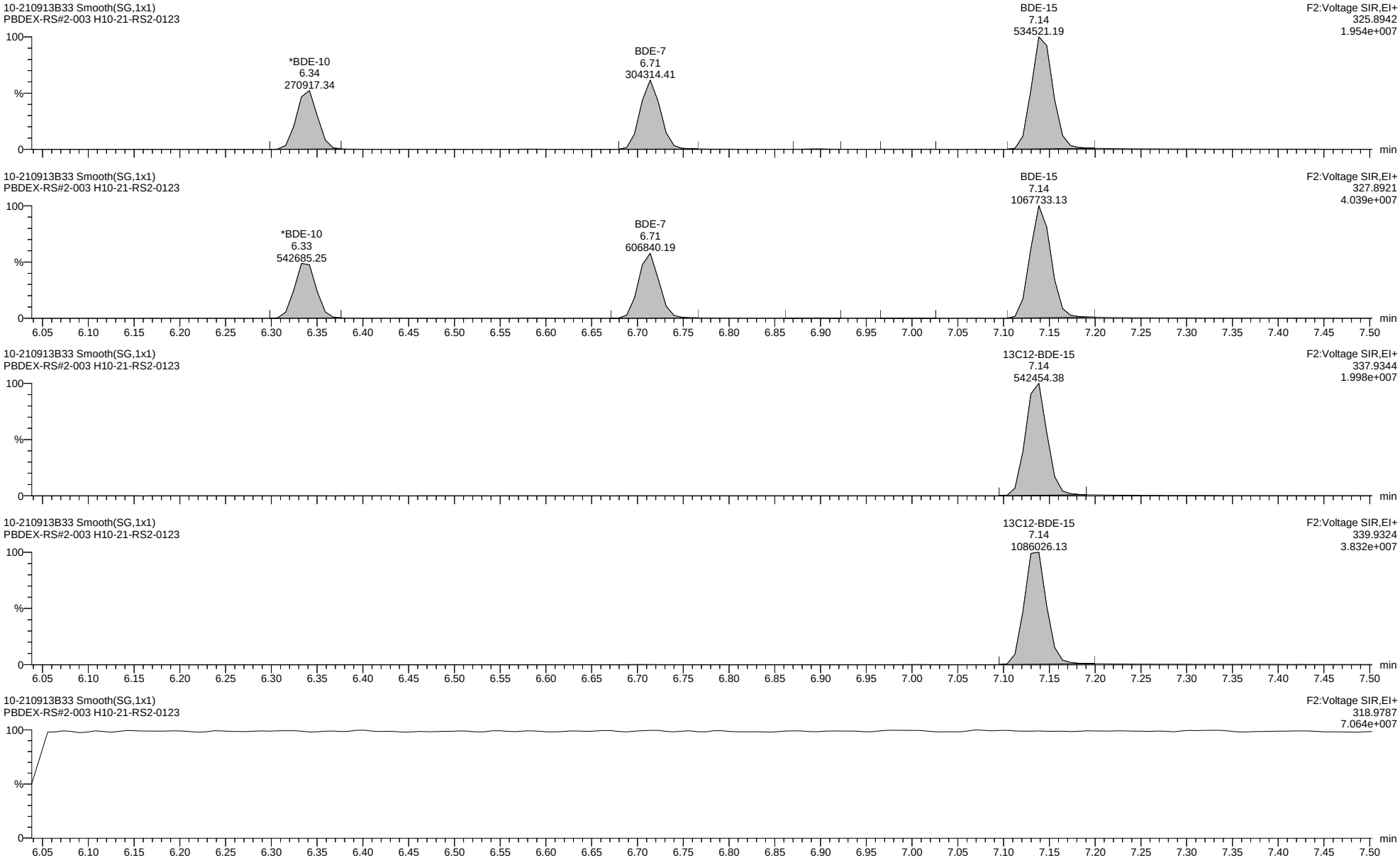

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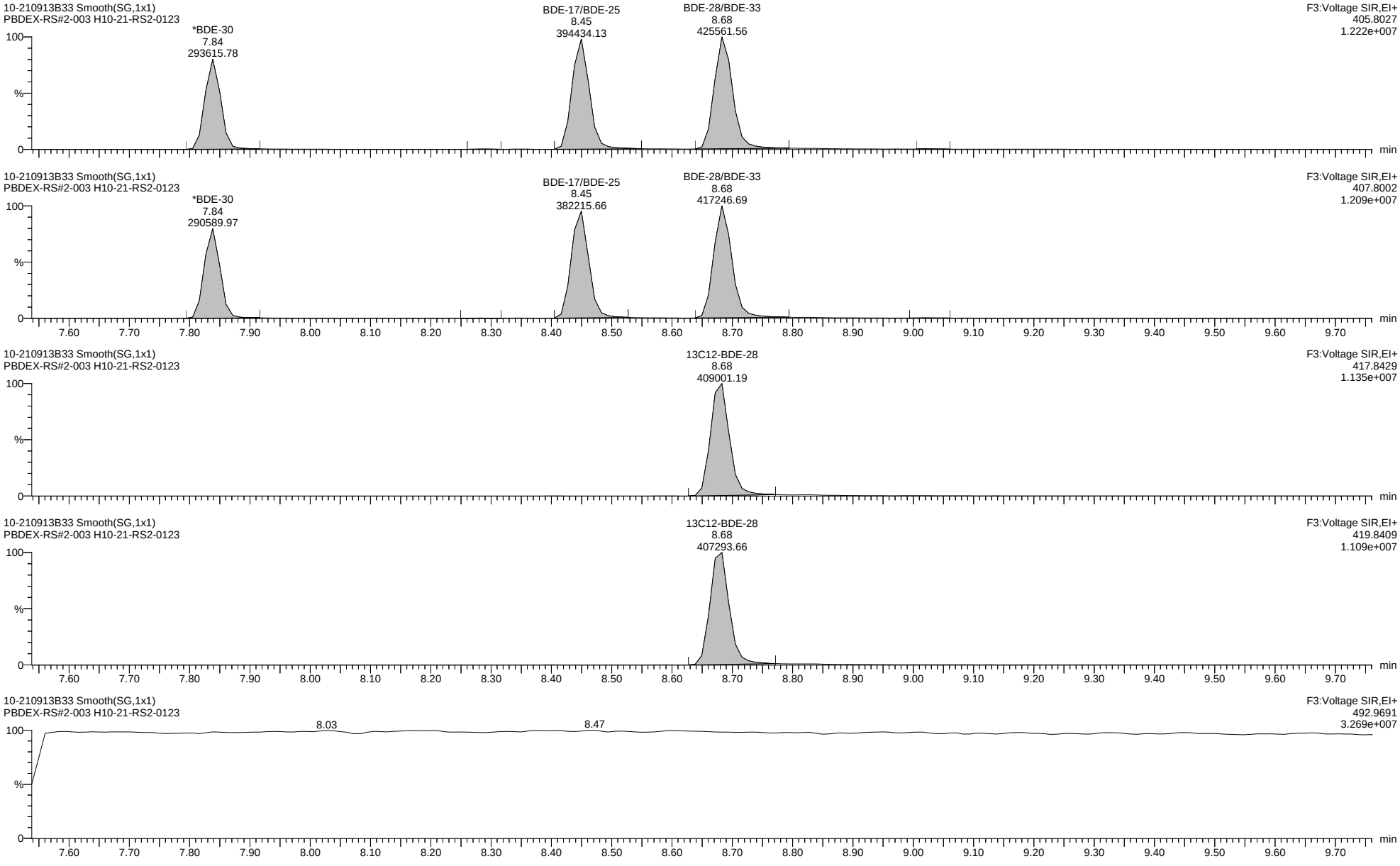

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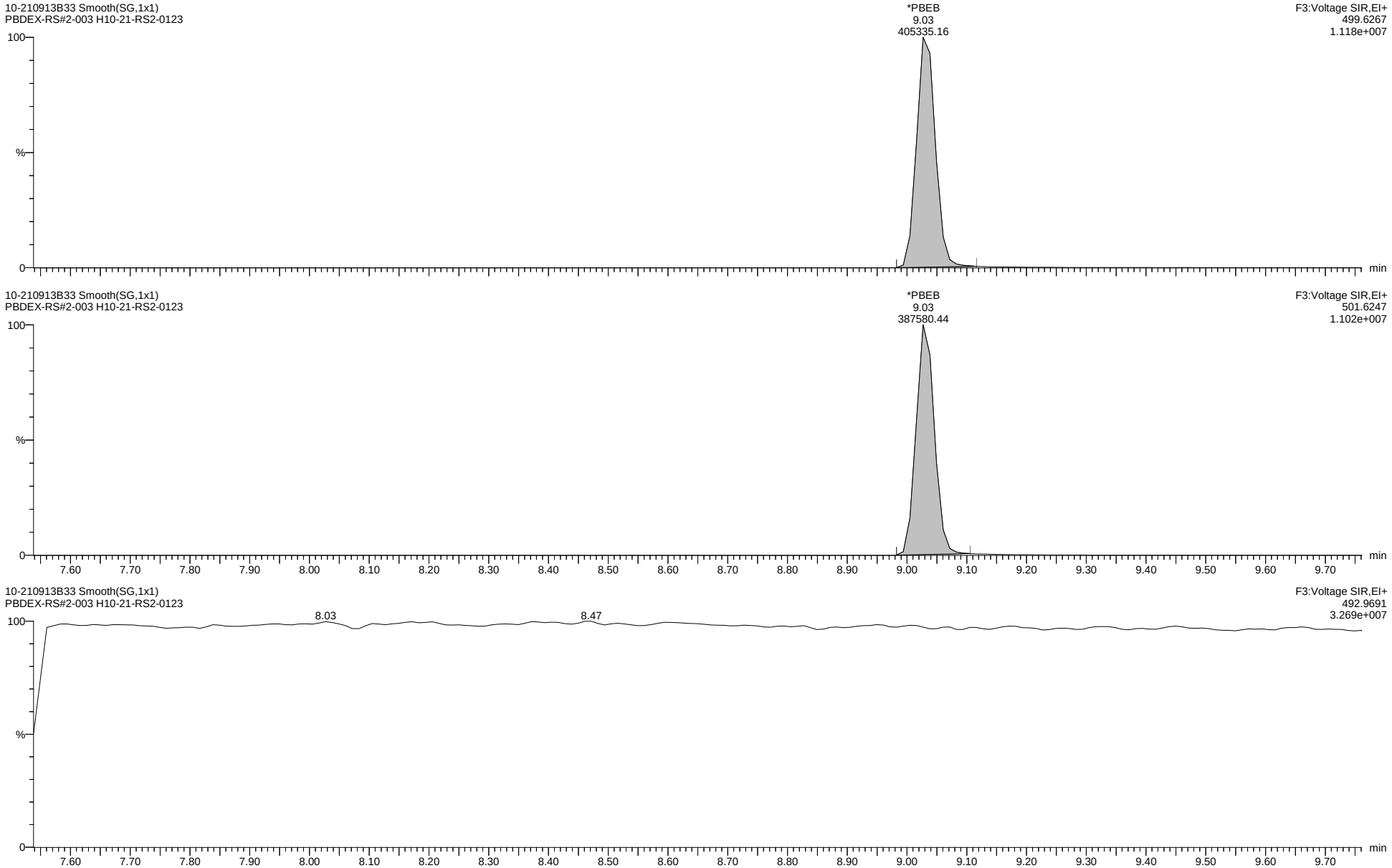

Quantify Sample Template Report **MassLynx MassLynx V4.1 SCN 901**

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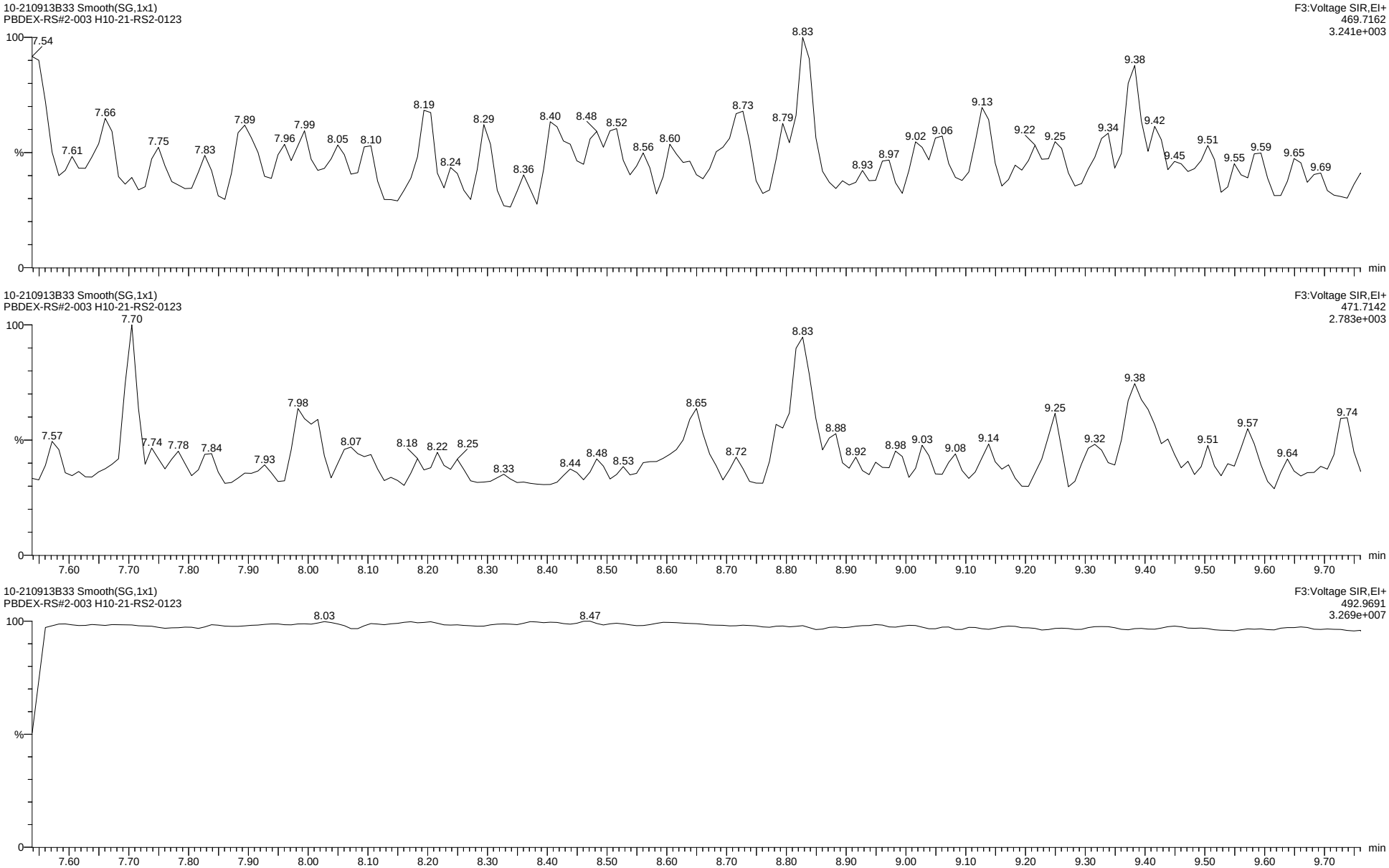

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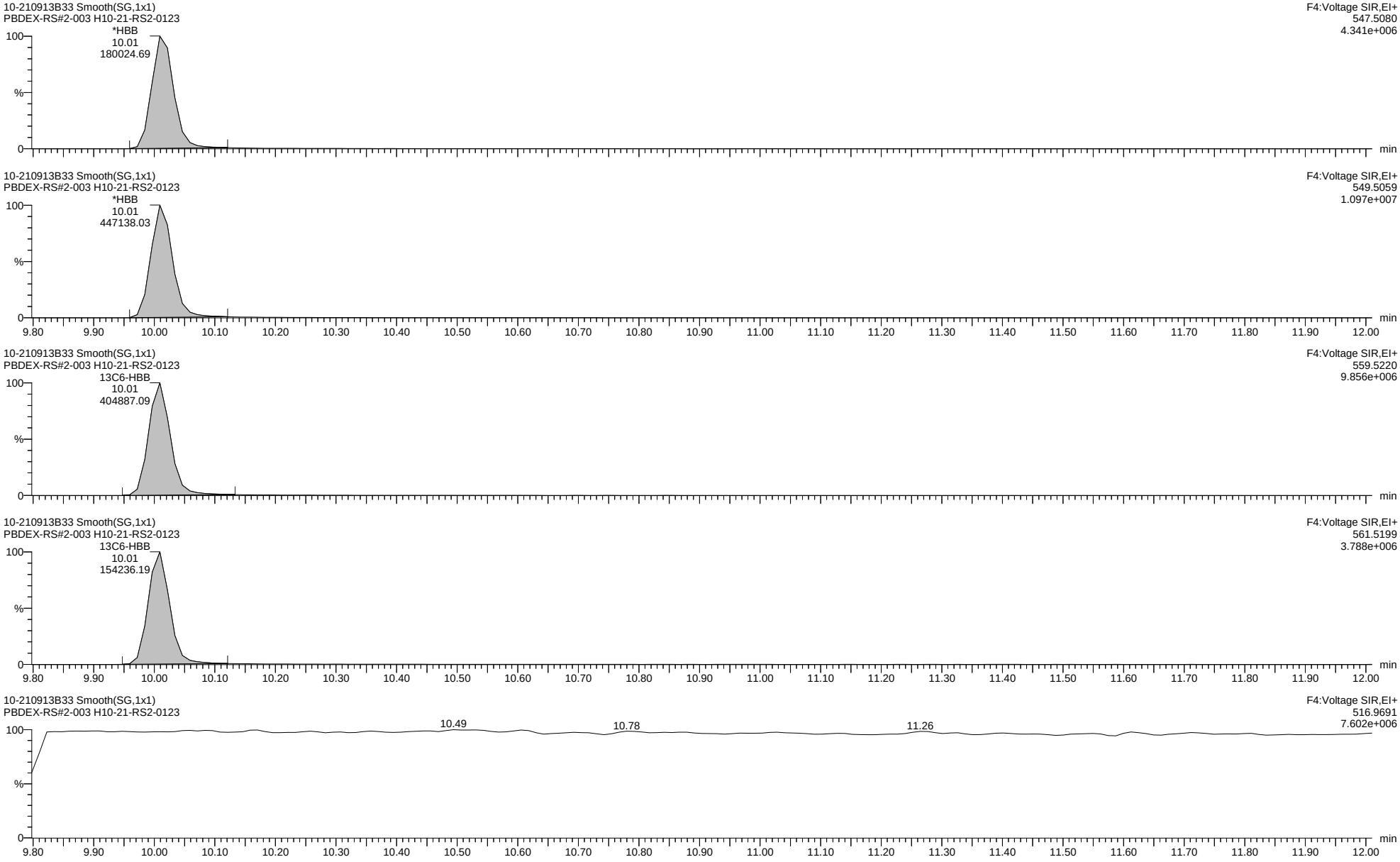

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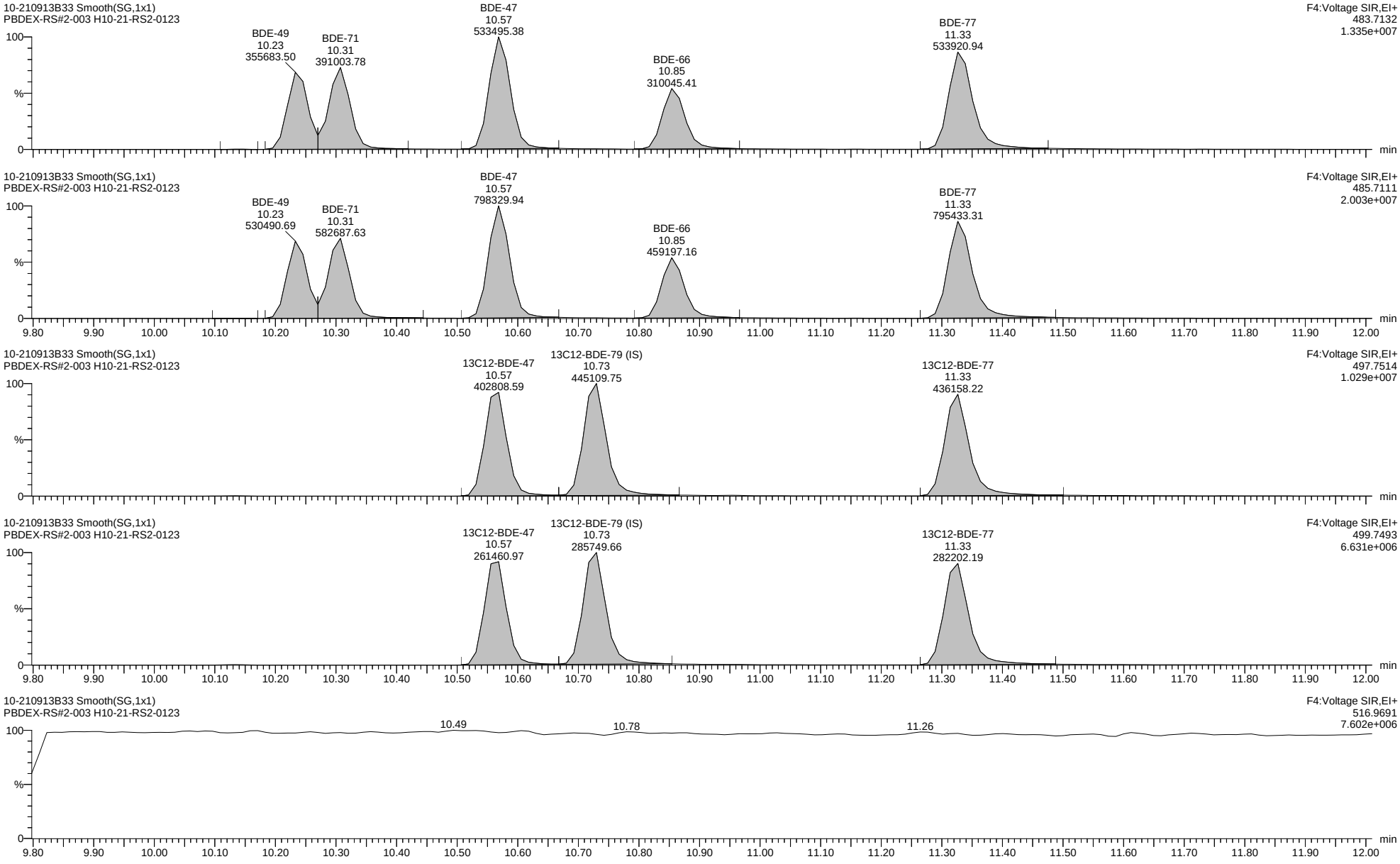

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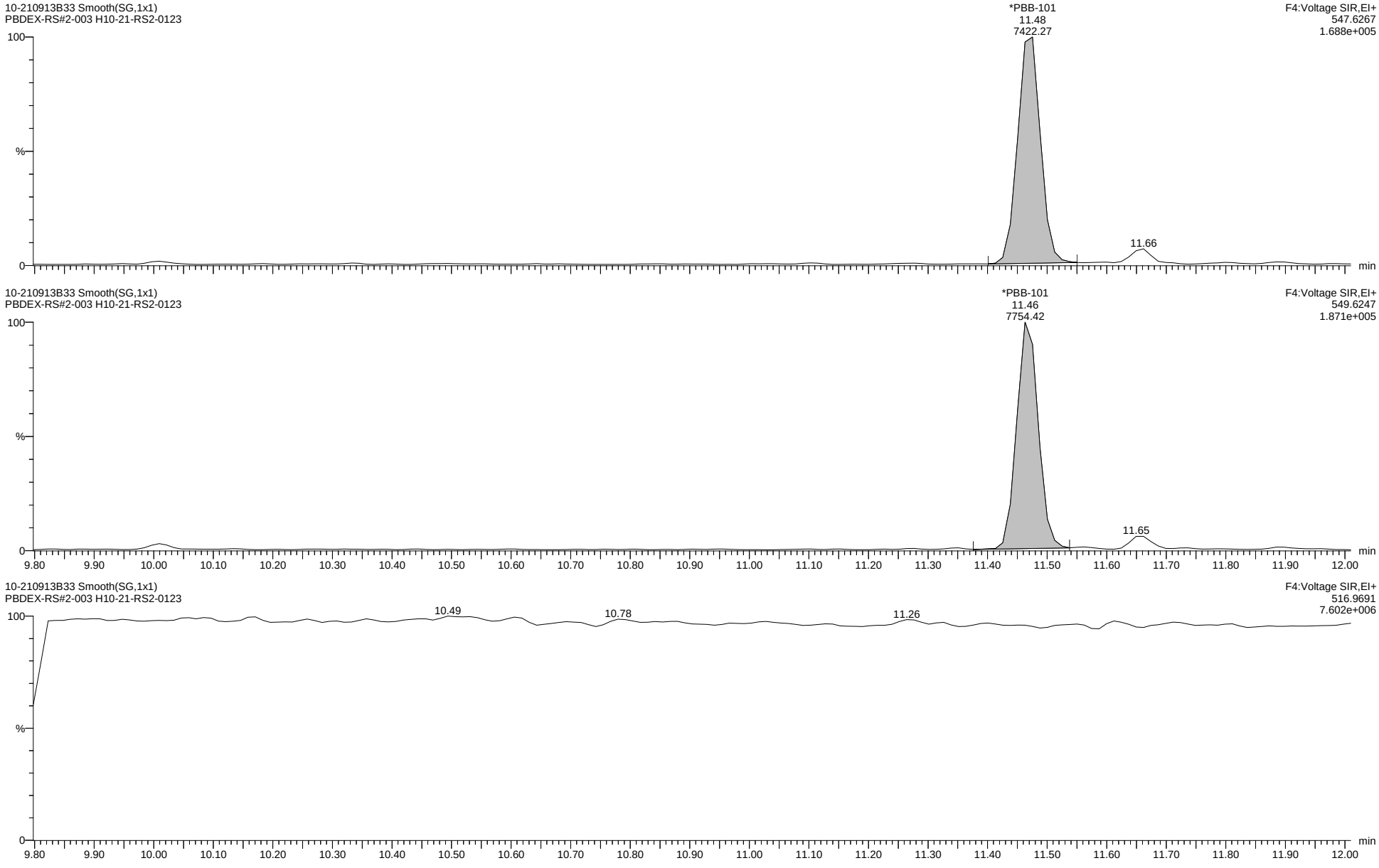

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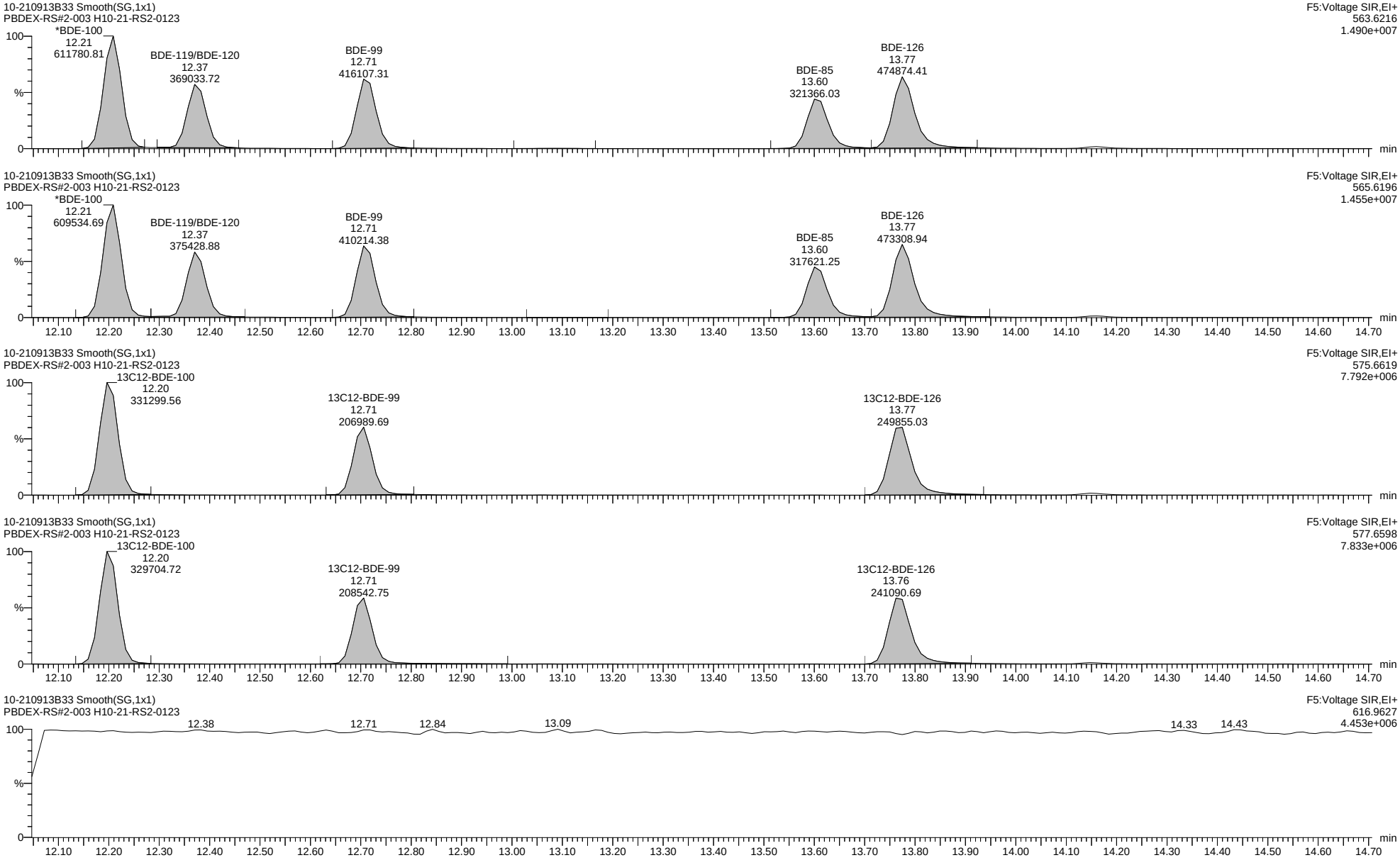

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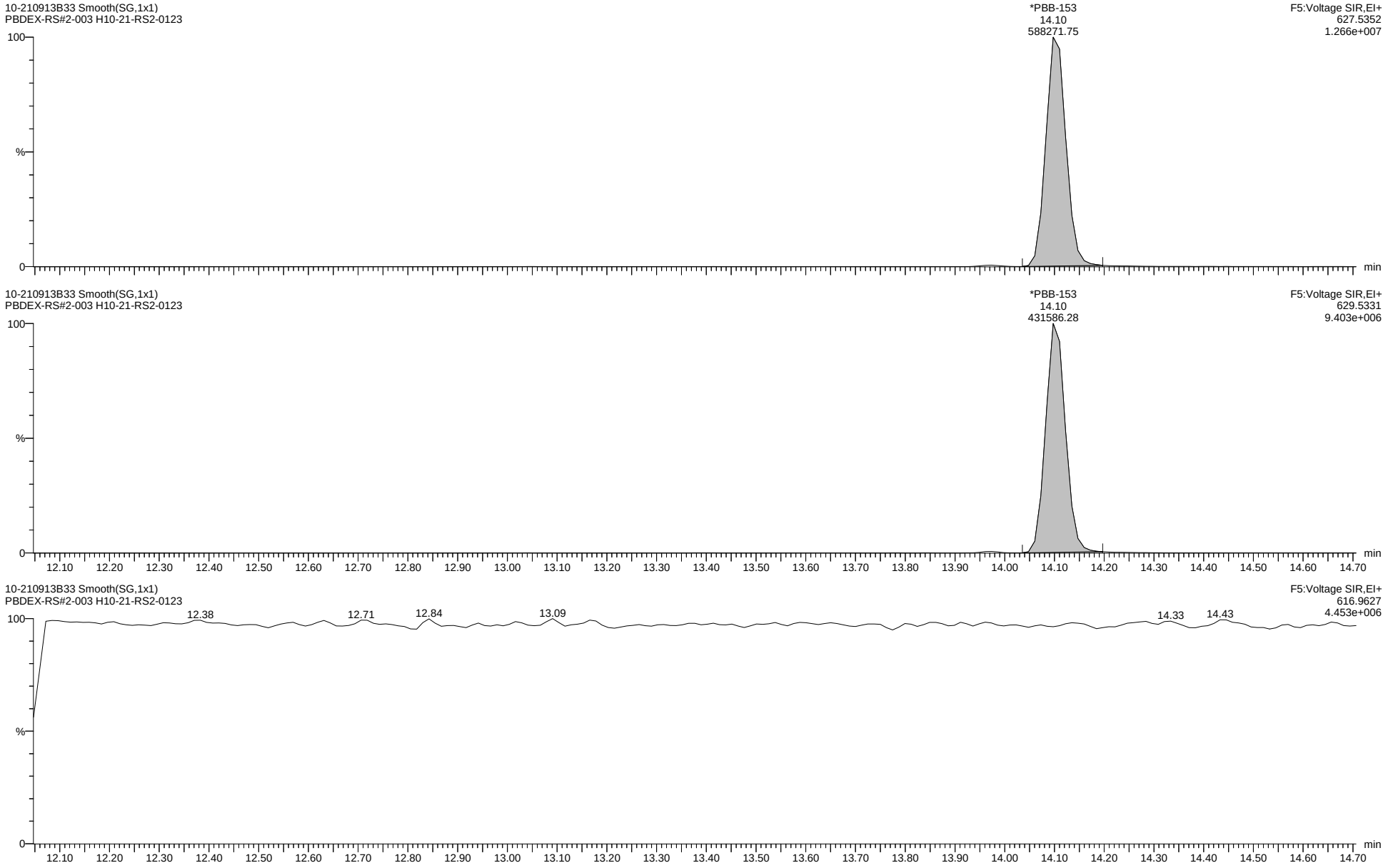

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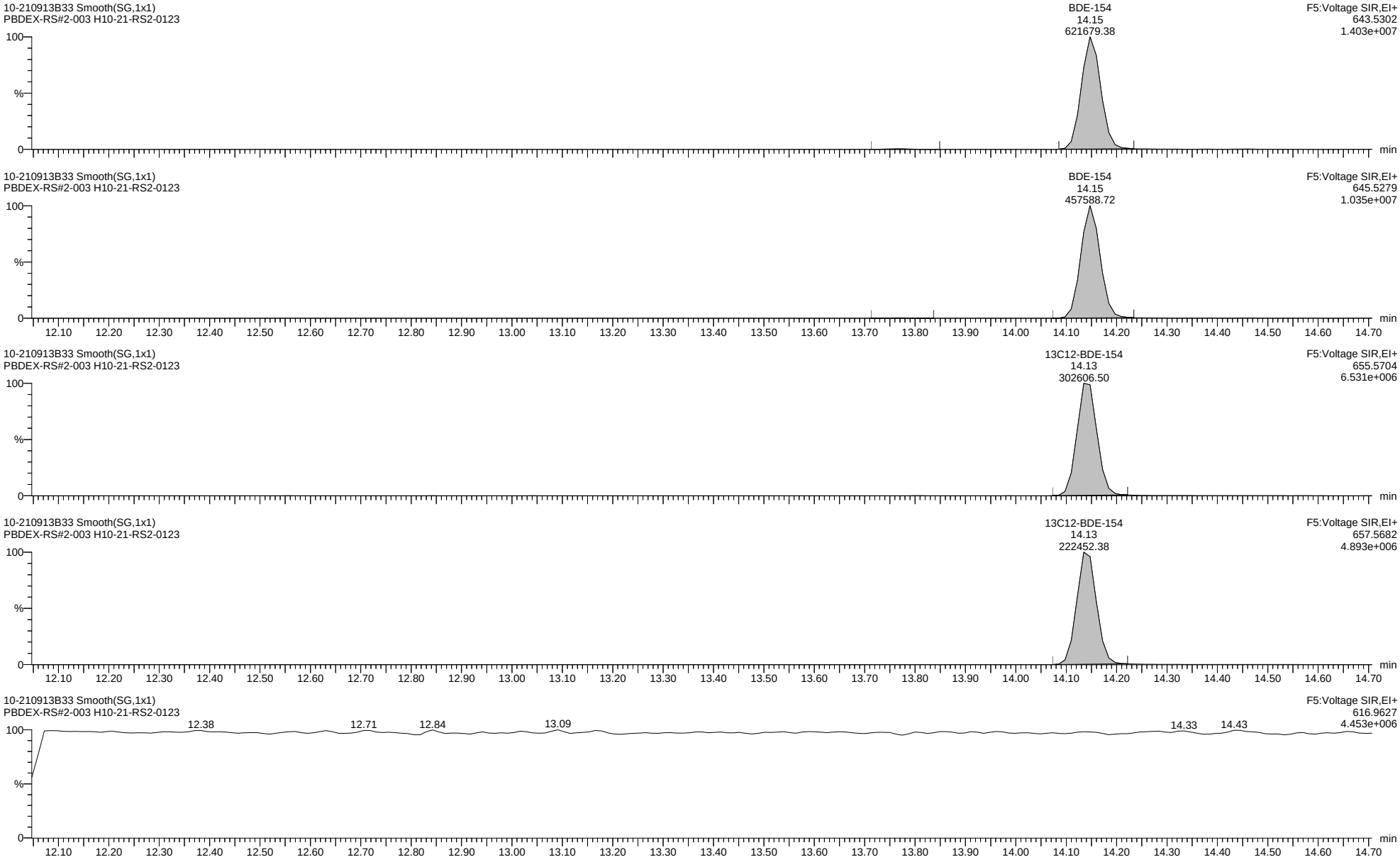

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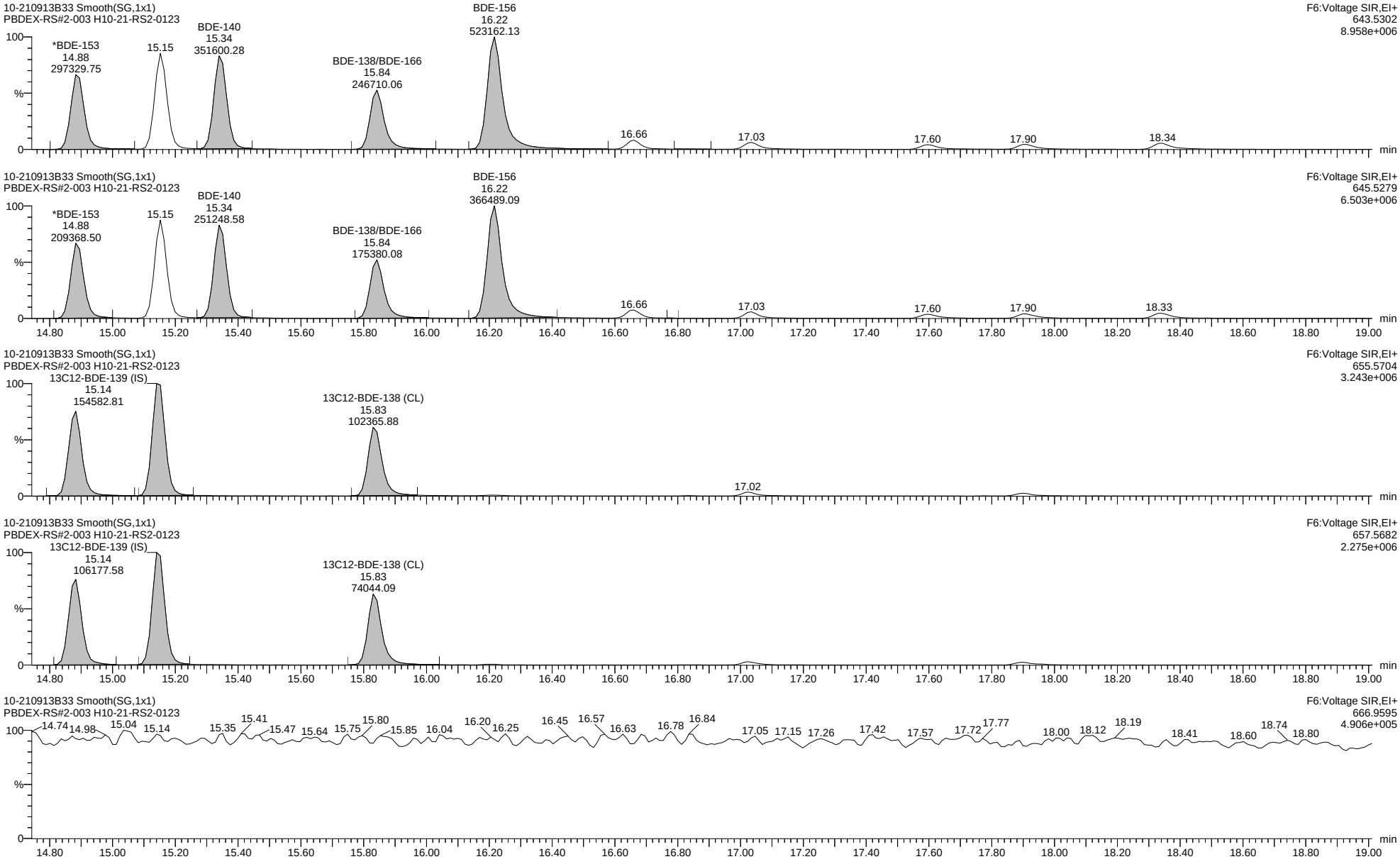

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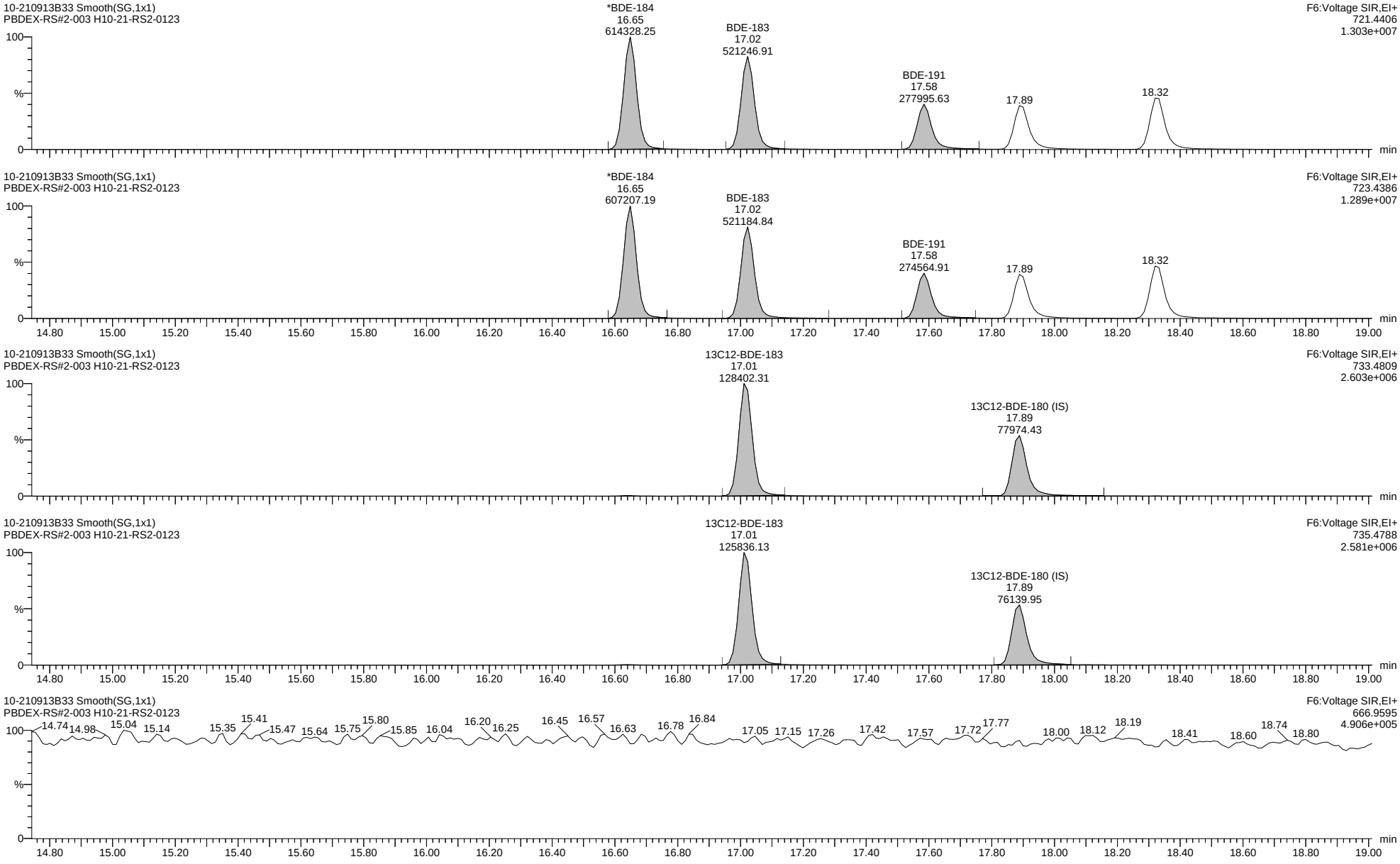

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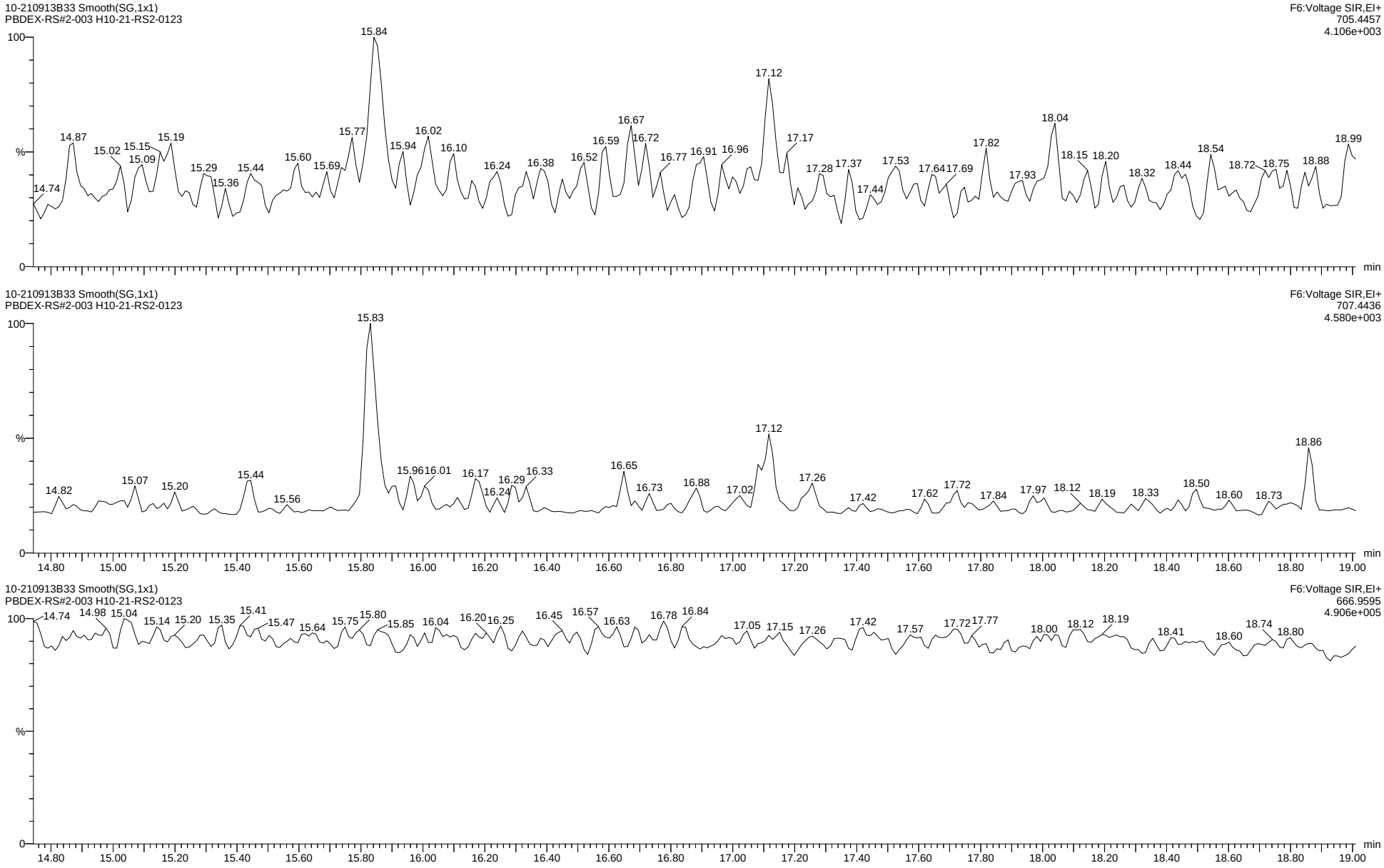

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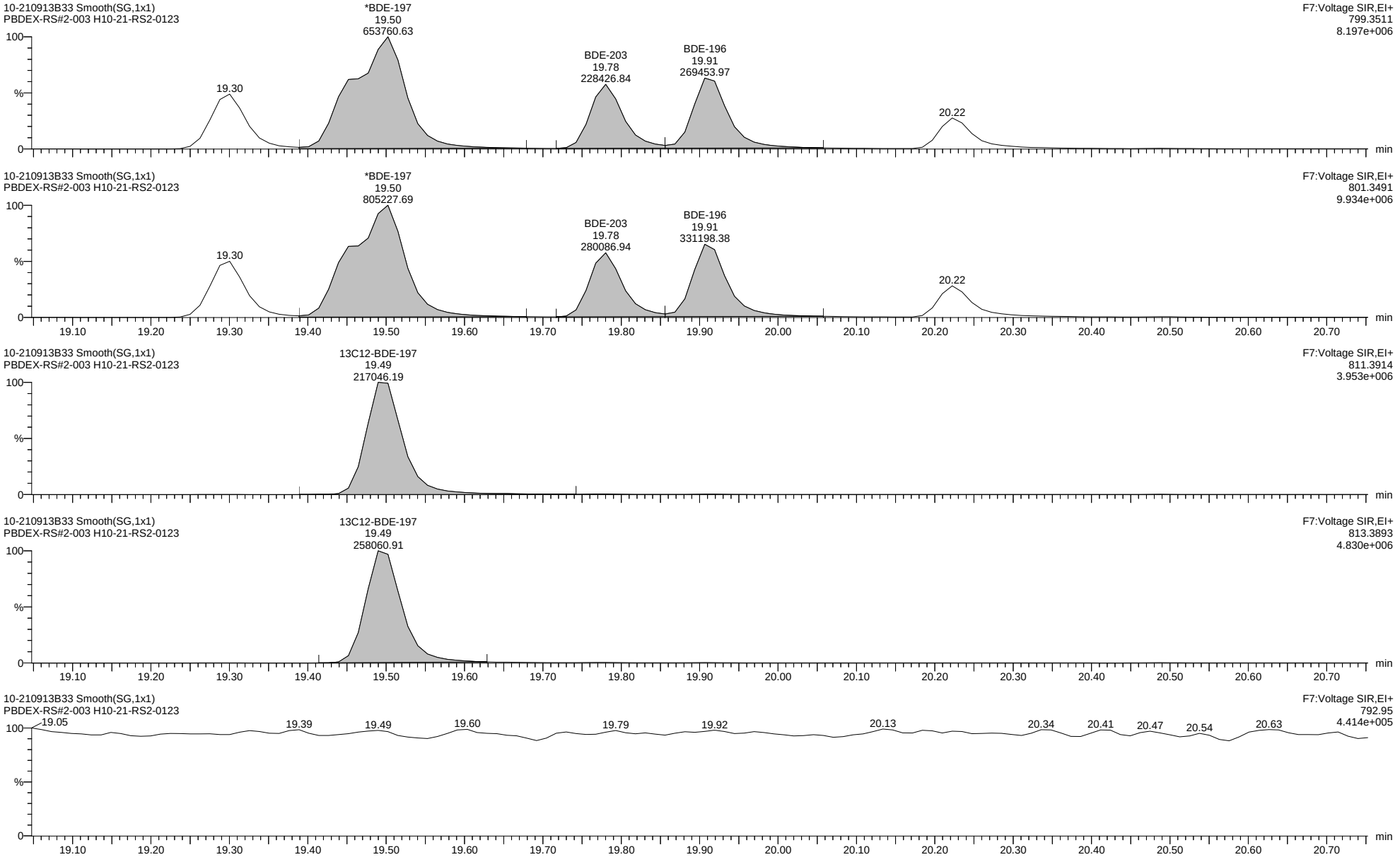

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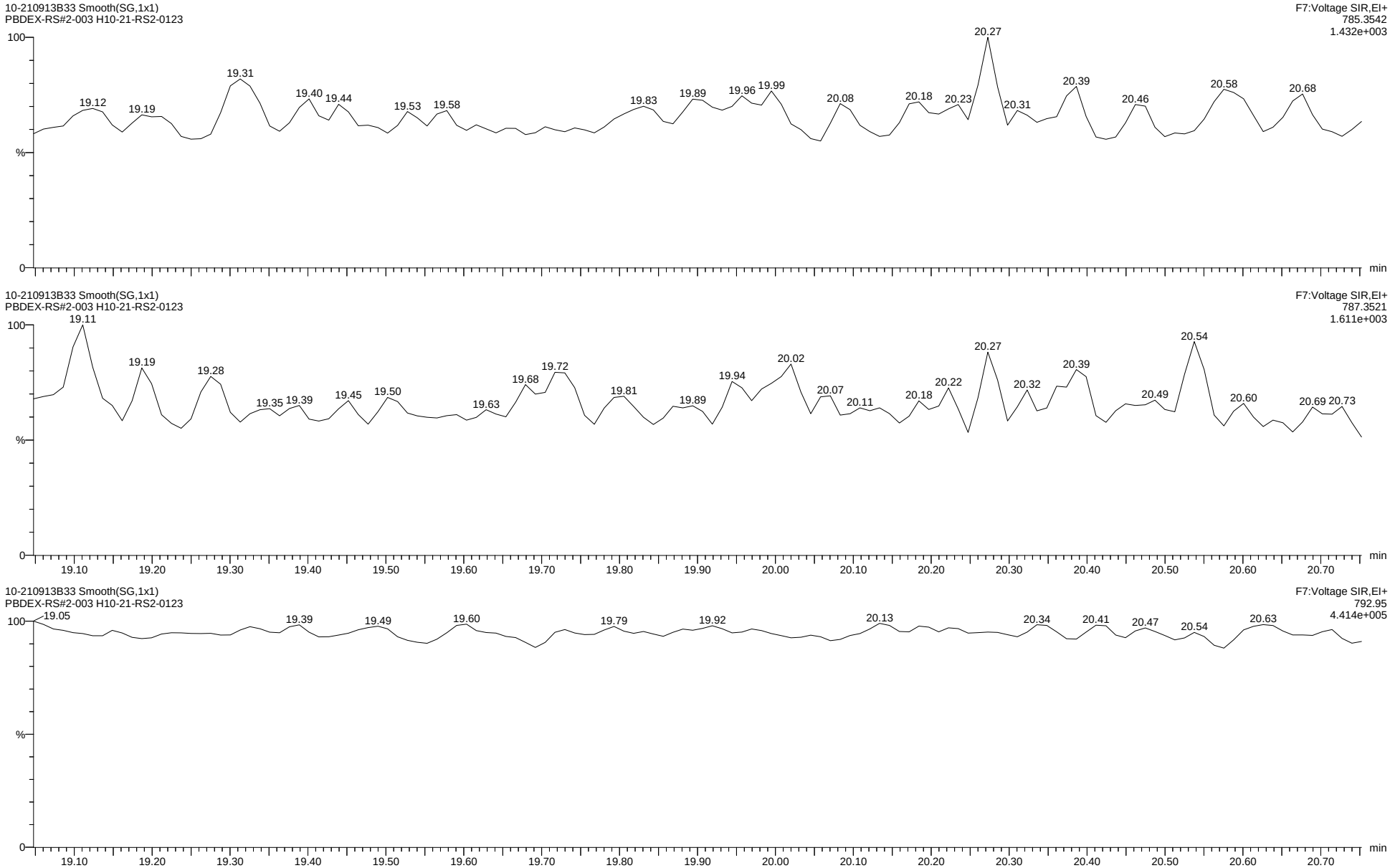

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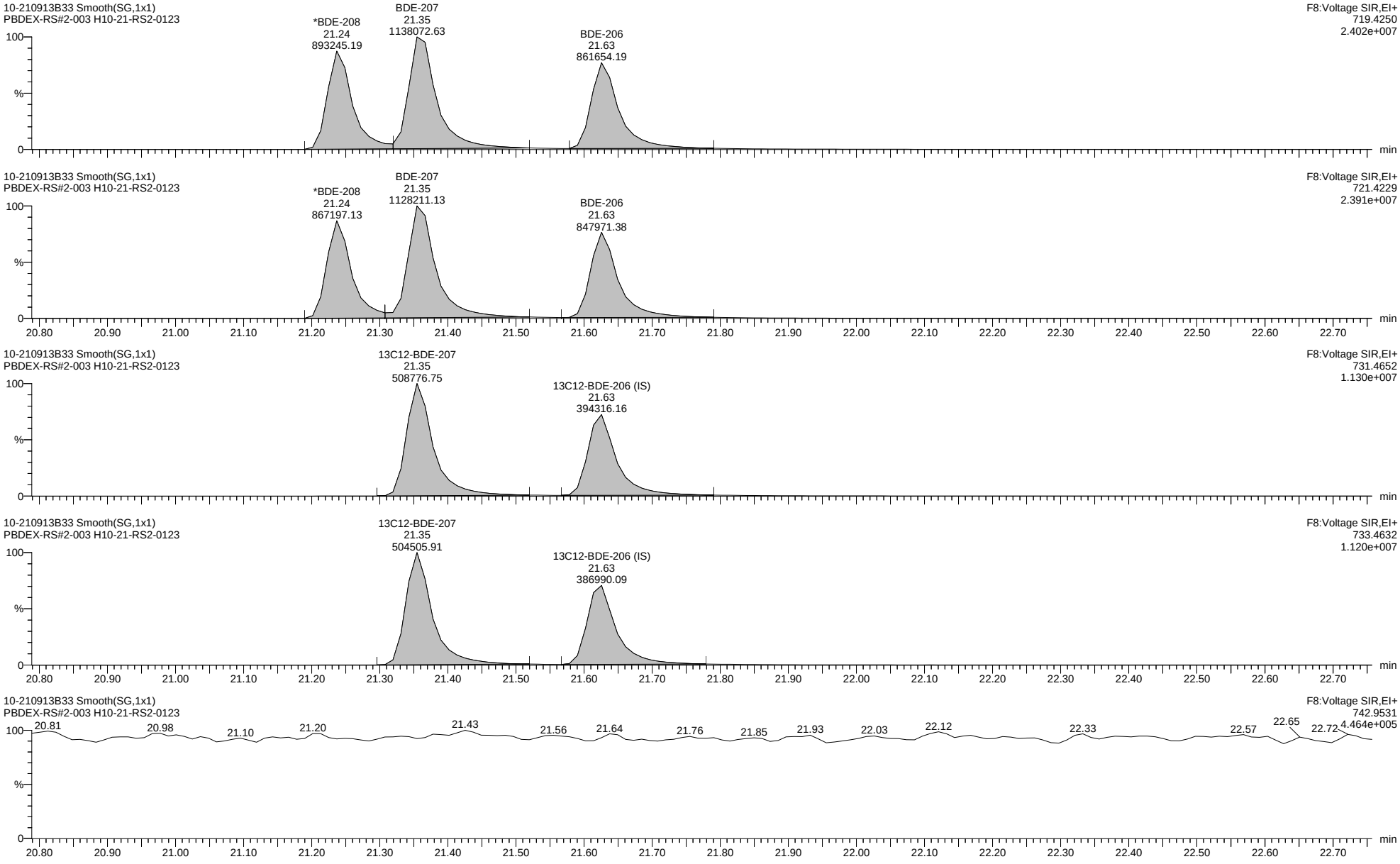

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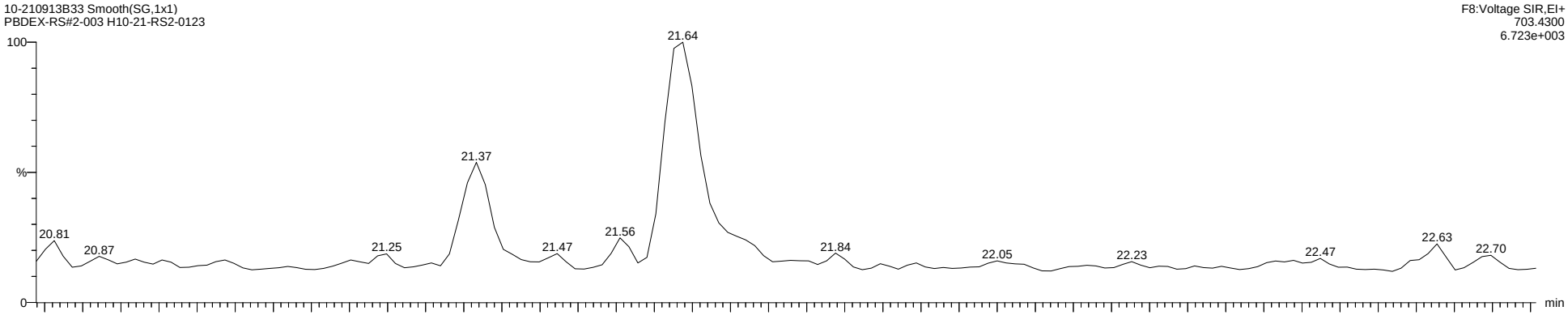

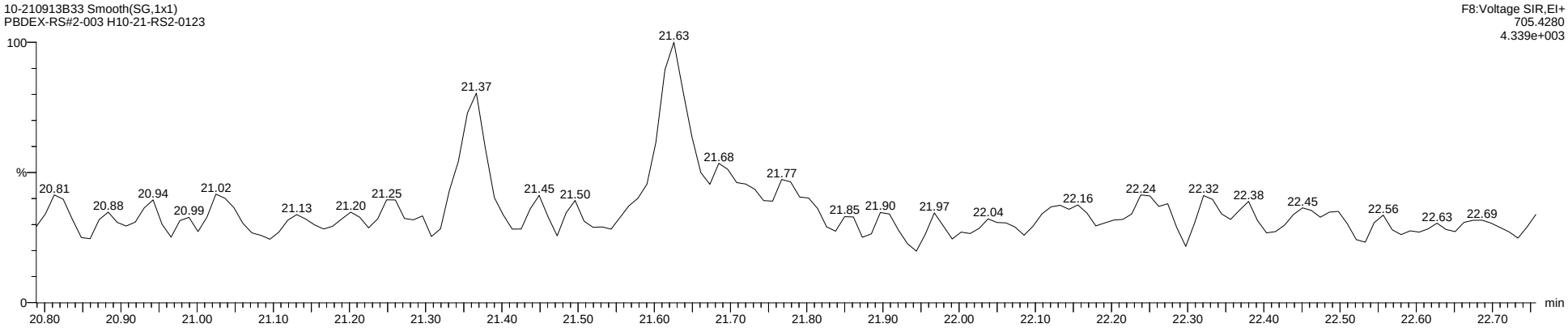

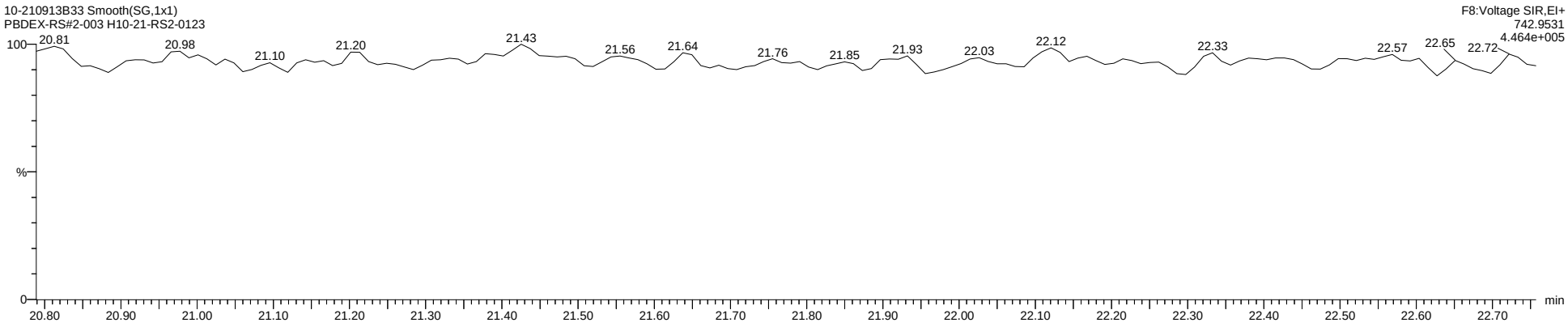

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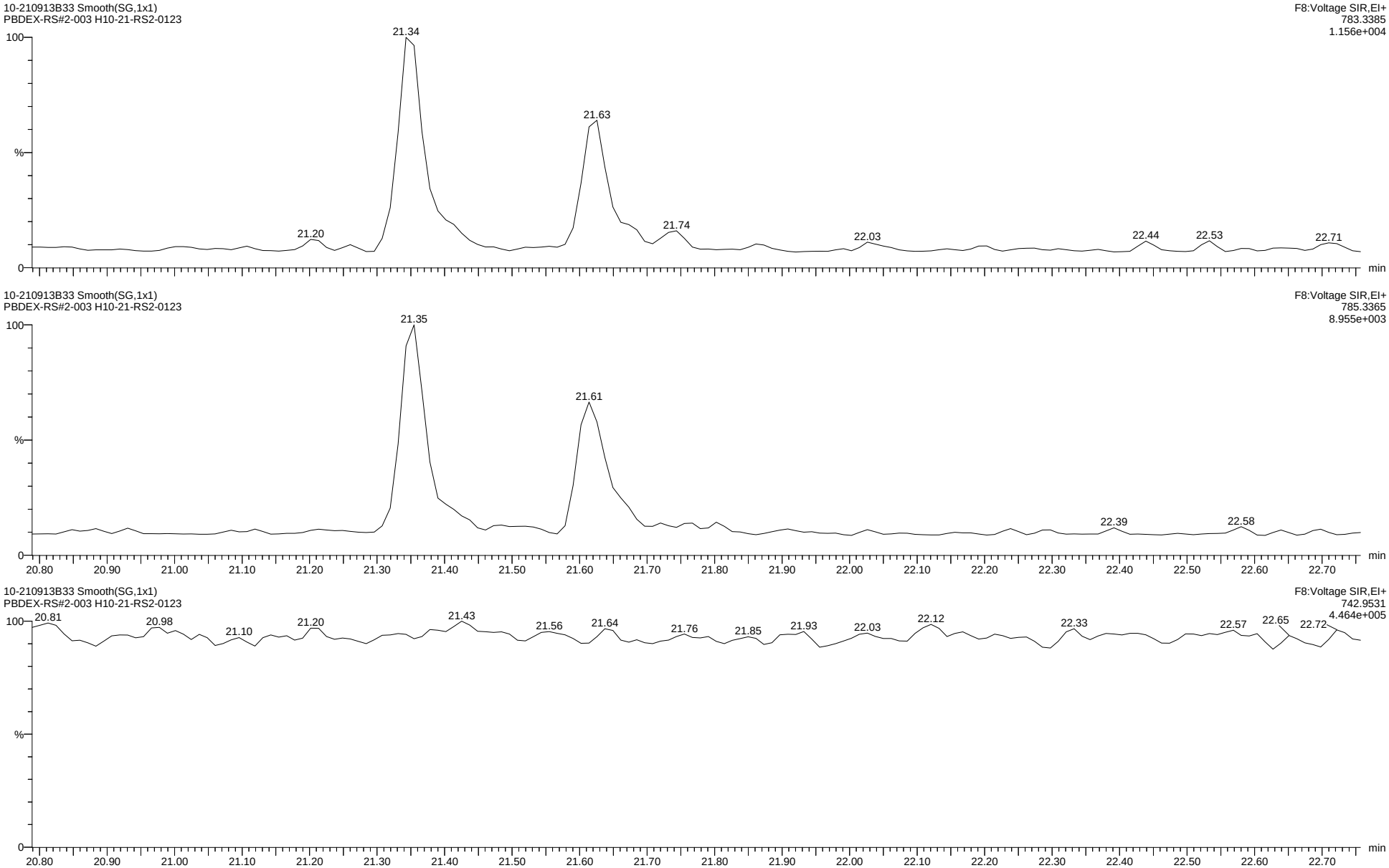

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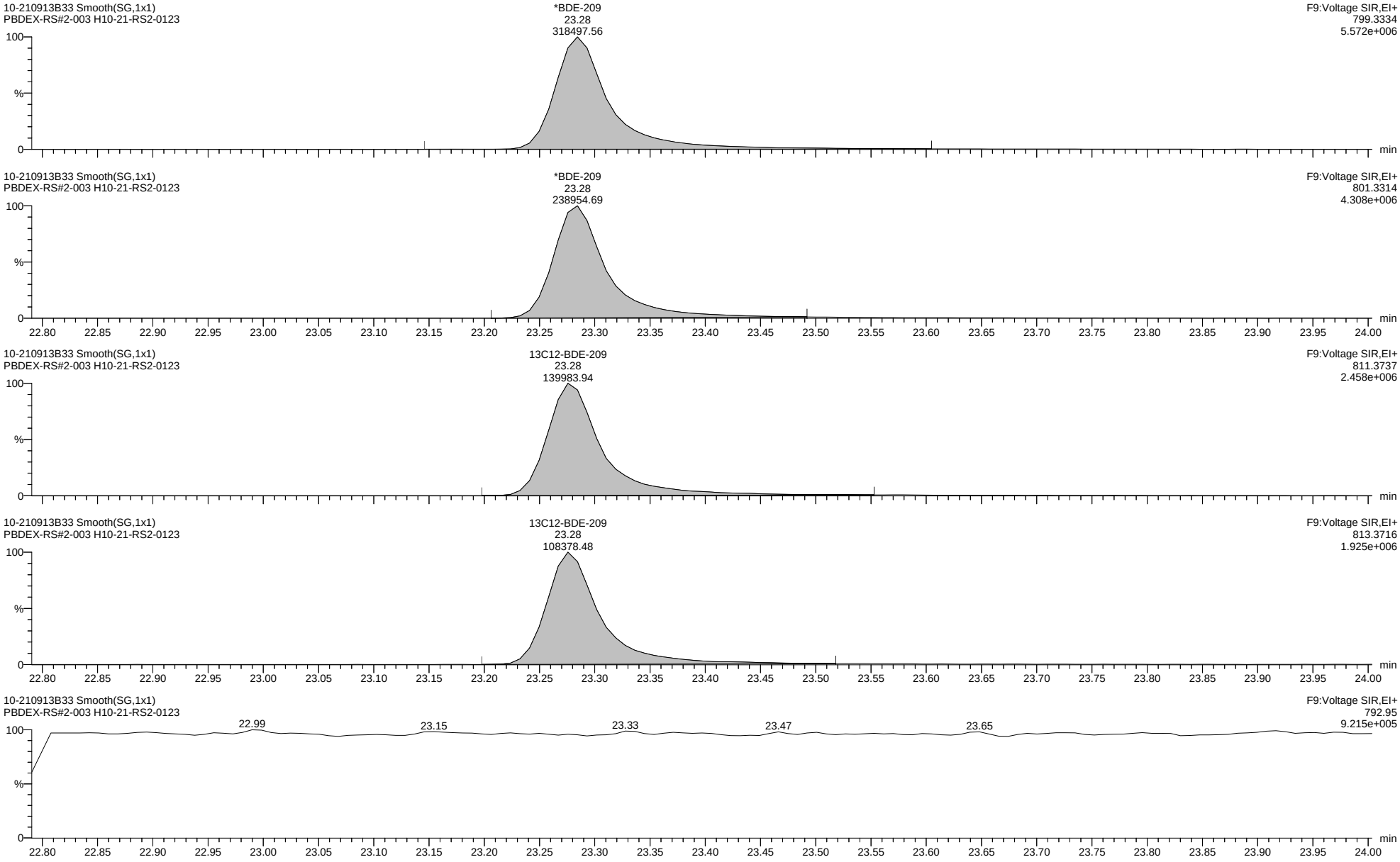

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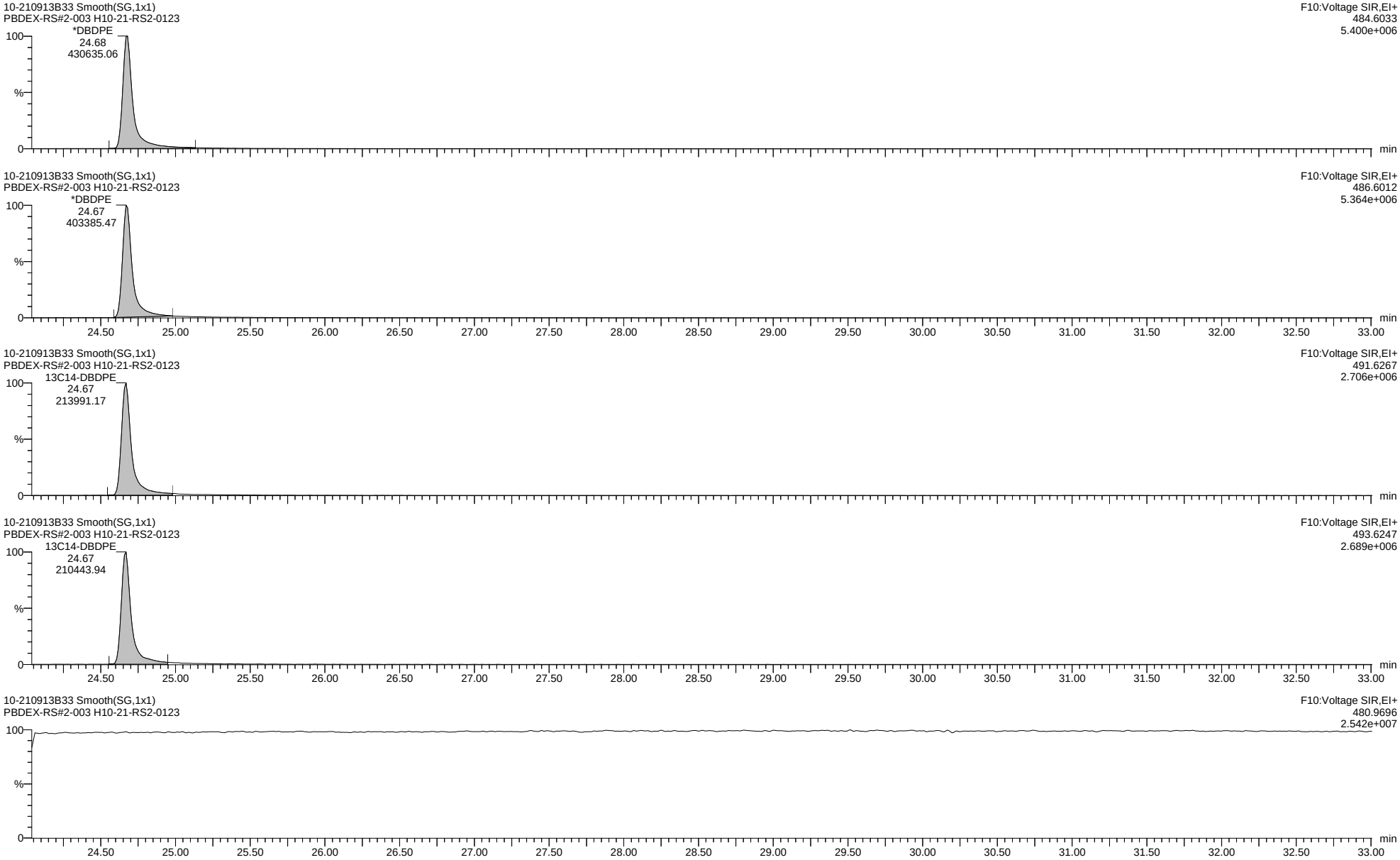

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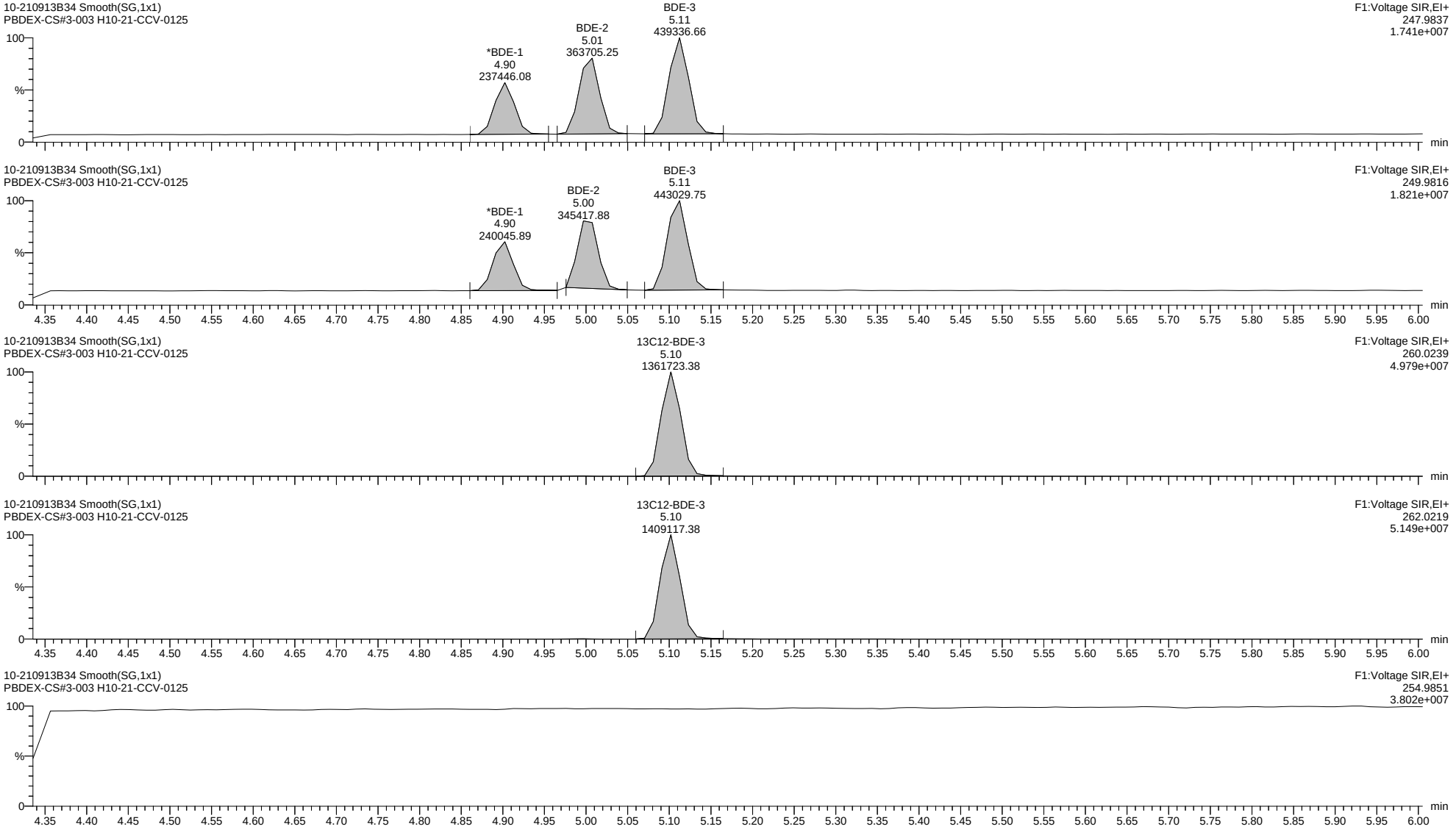

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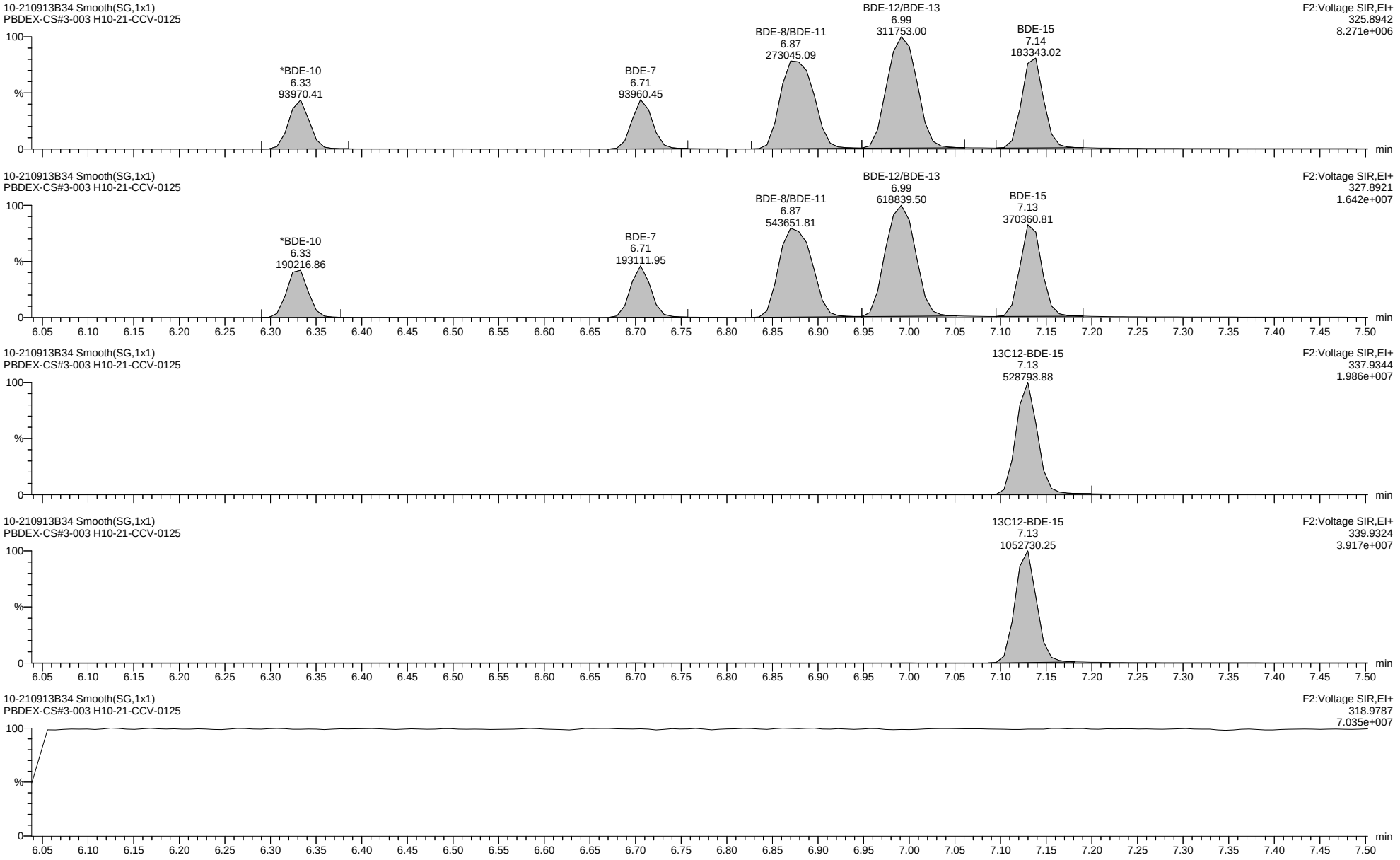

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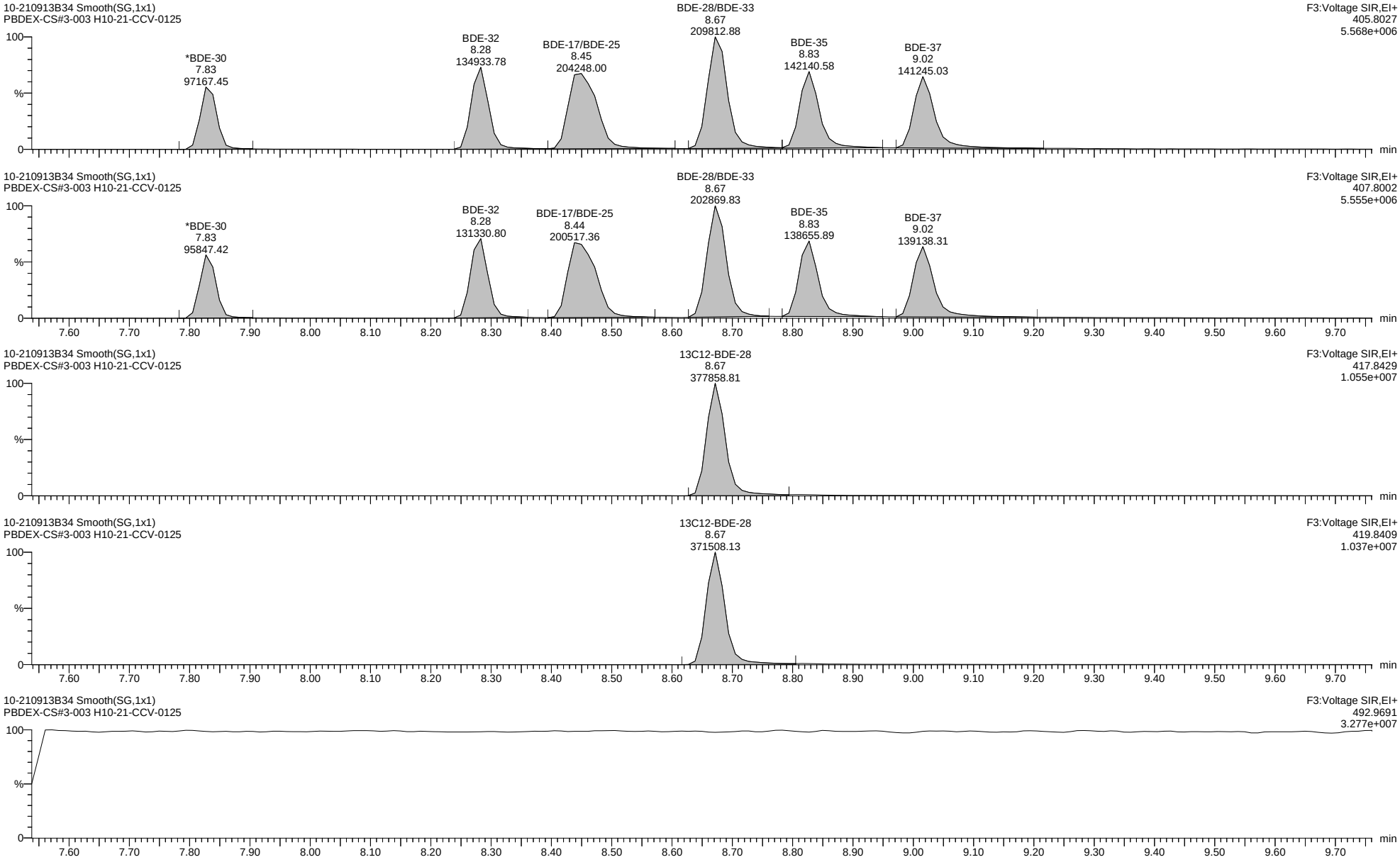

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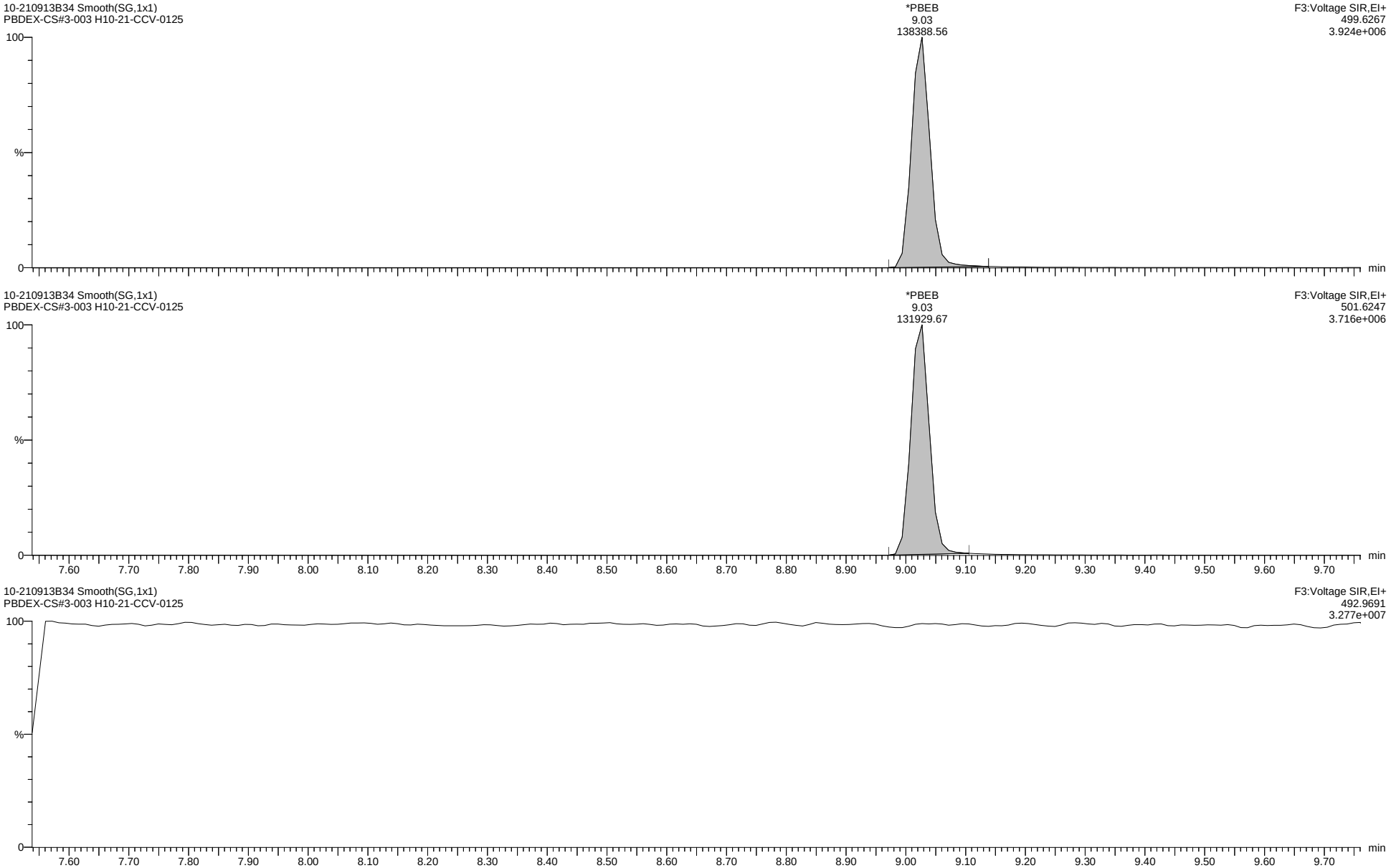

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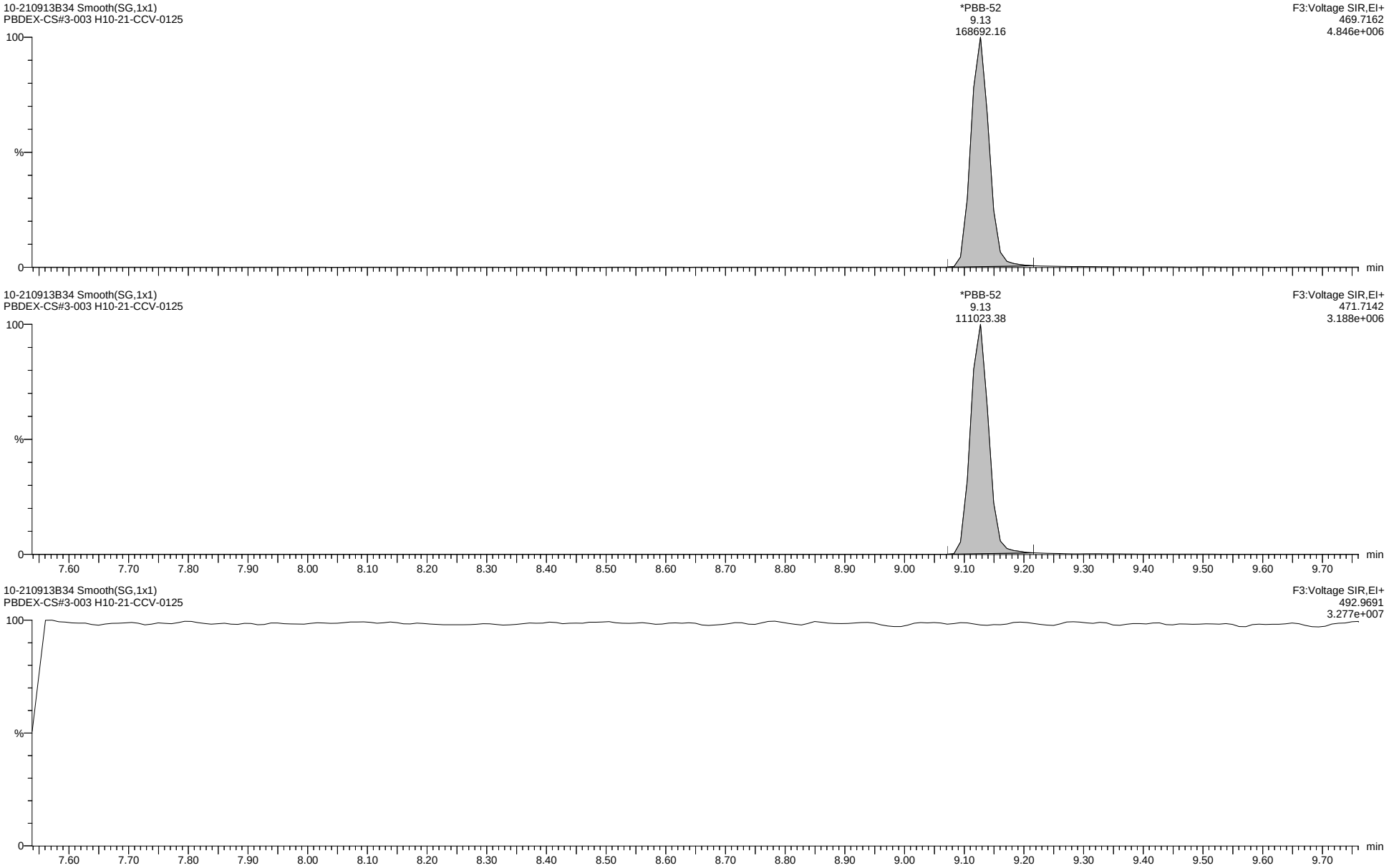

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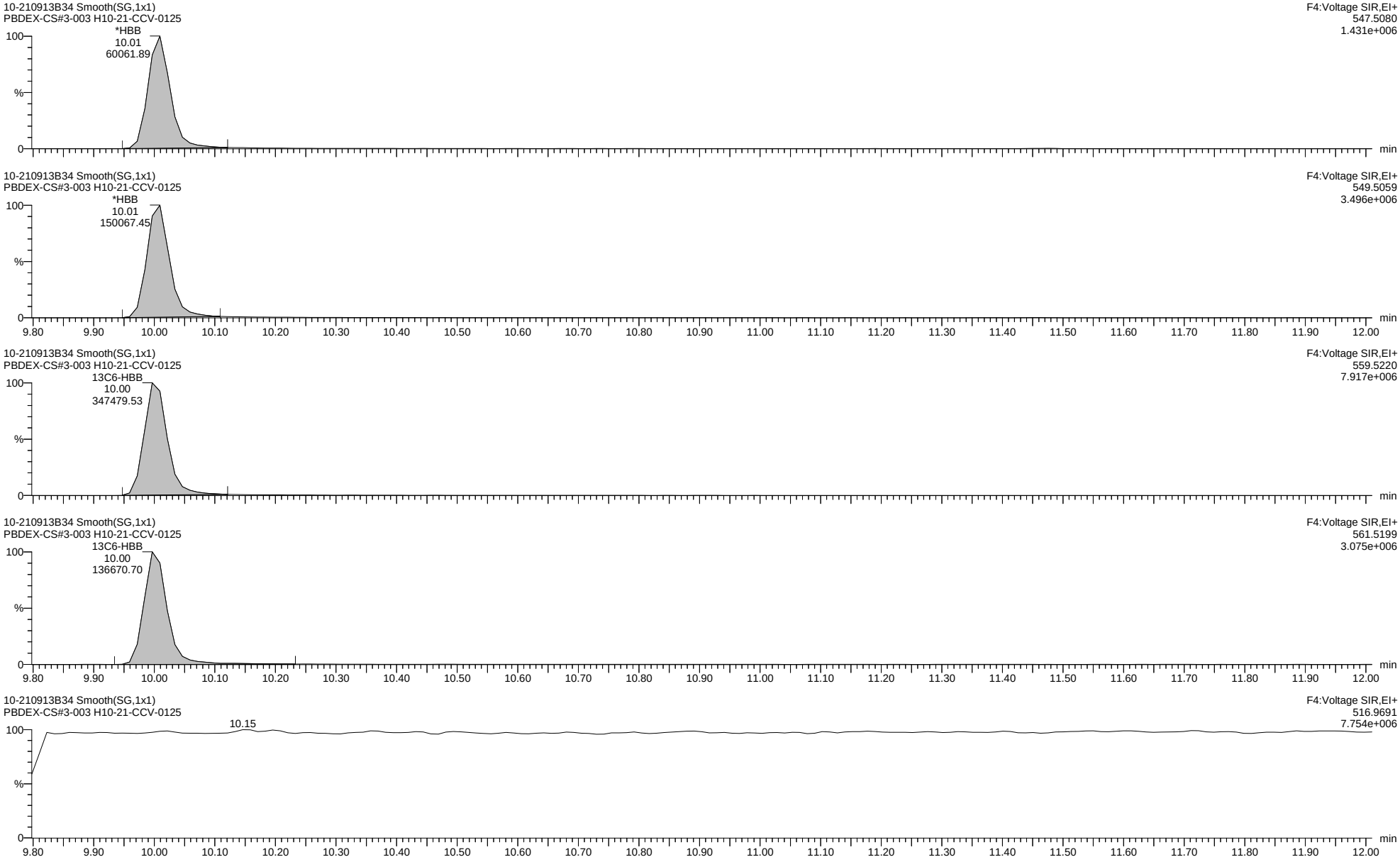

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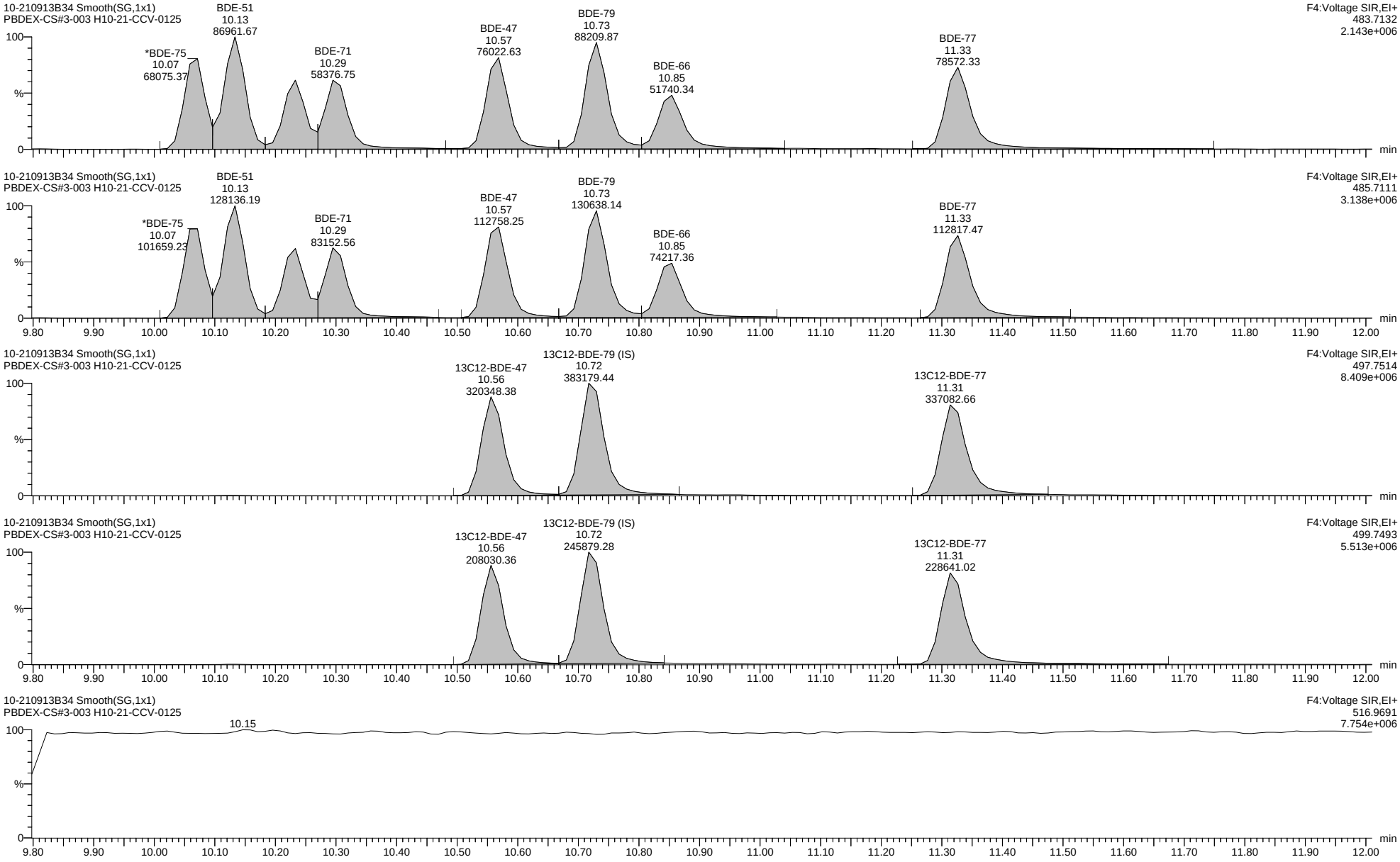

Quantify Sample Template Report **MassLynx MassLynx V4.1 SCN 901**

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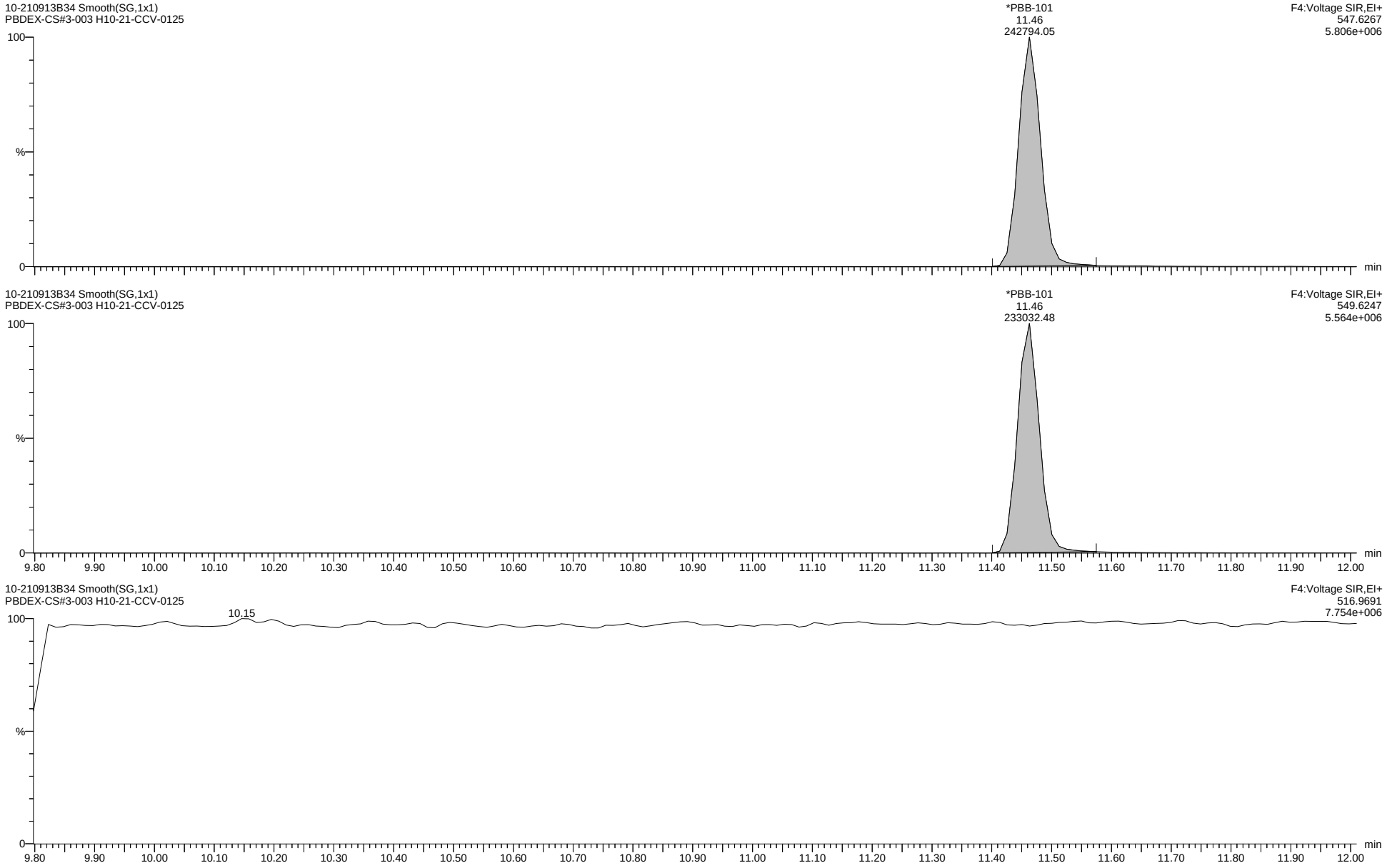

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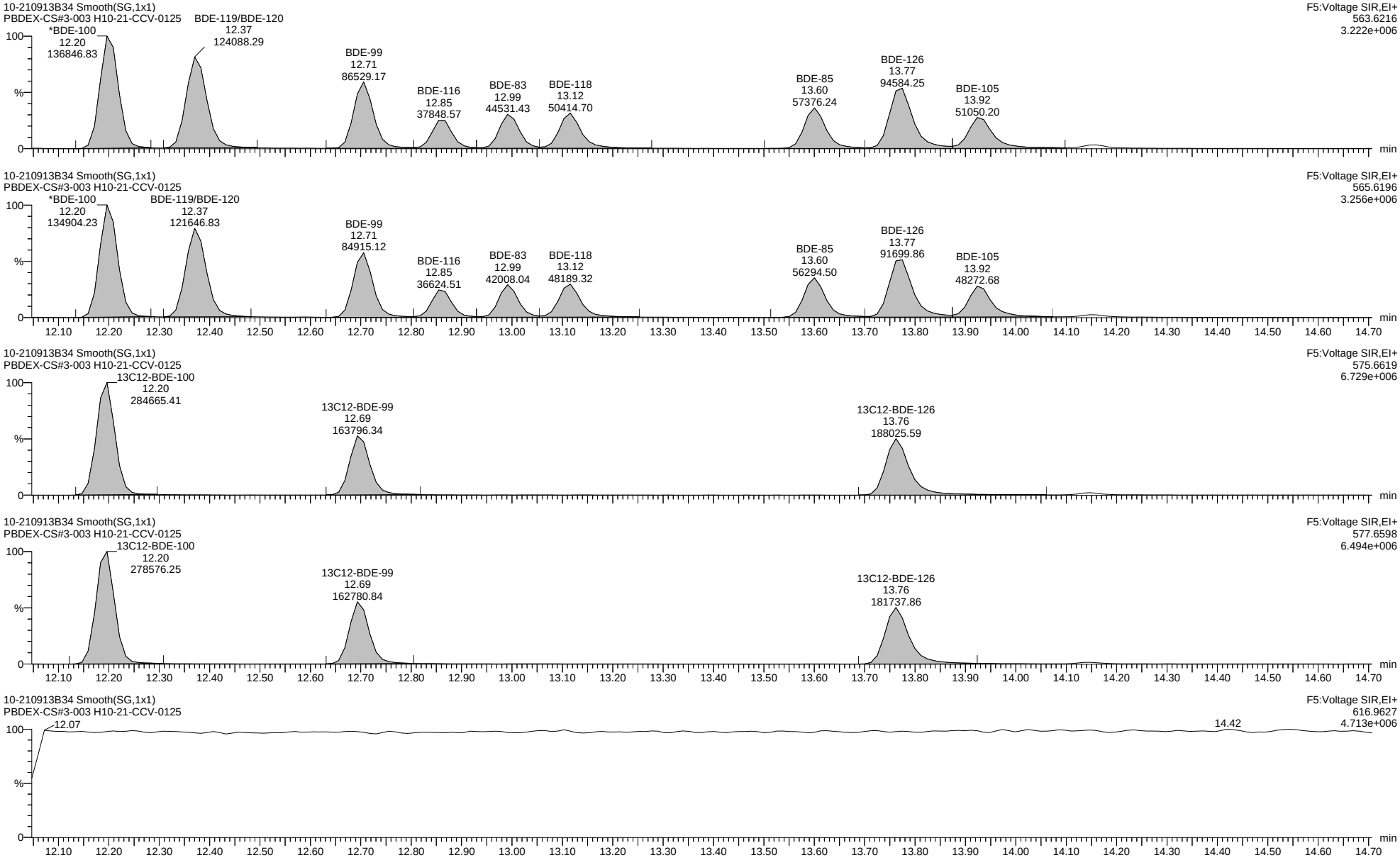

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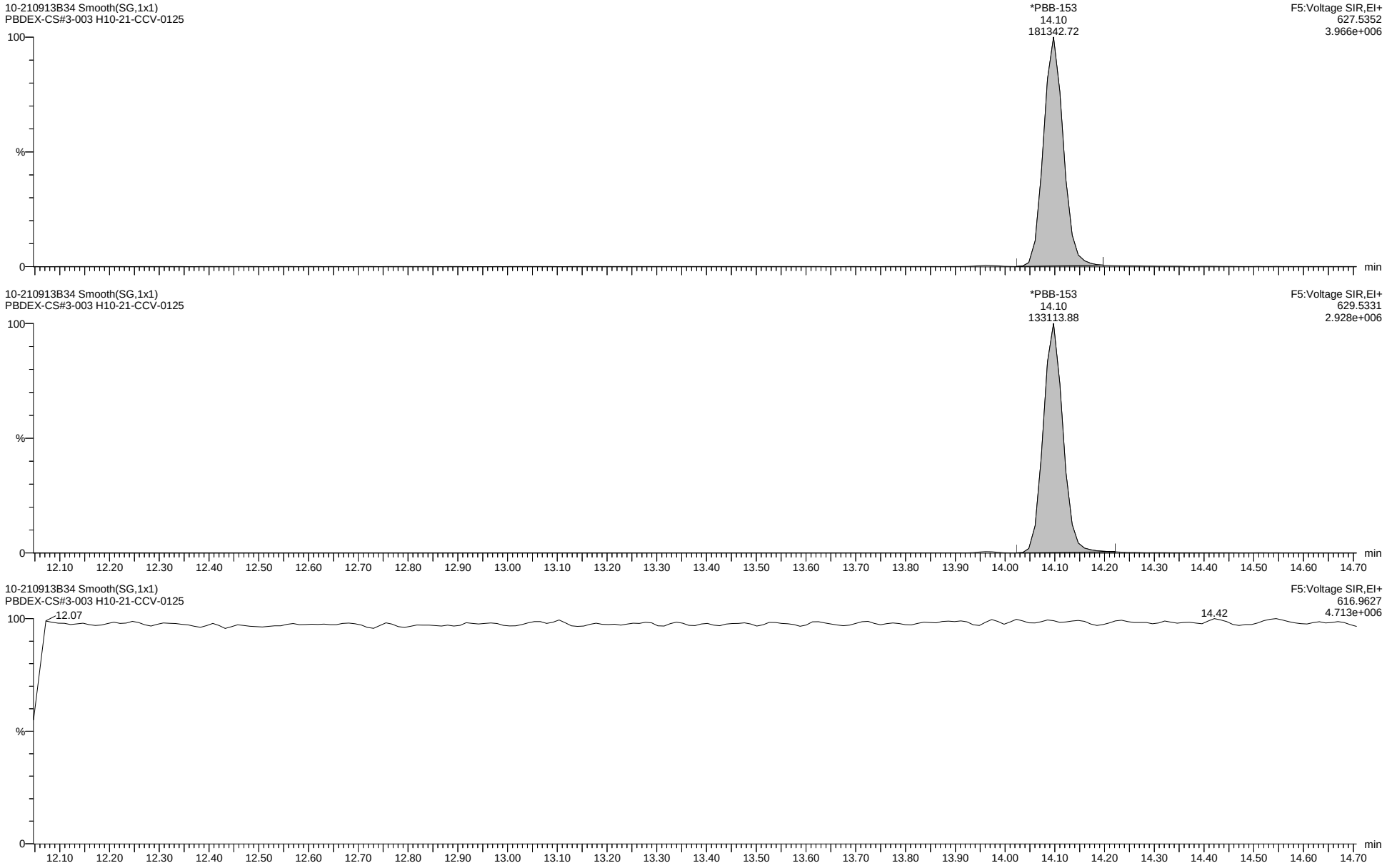

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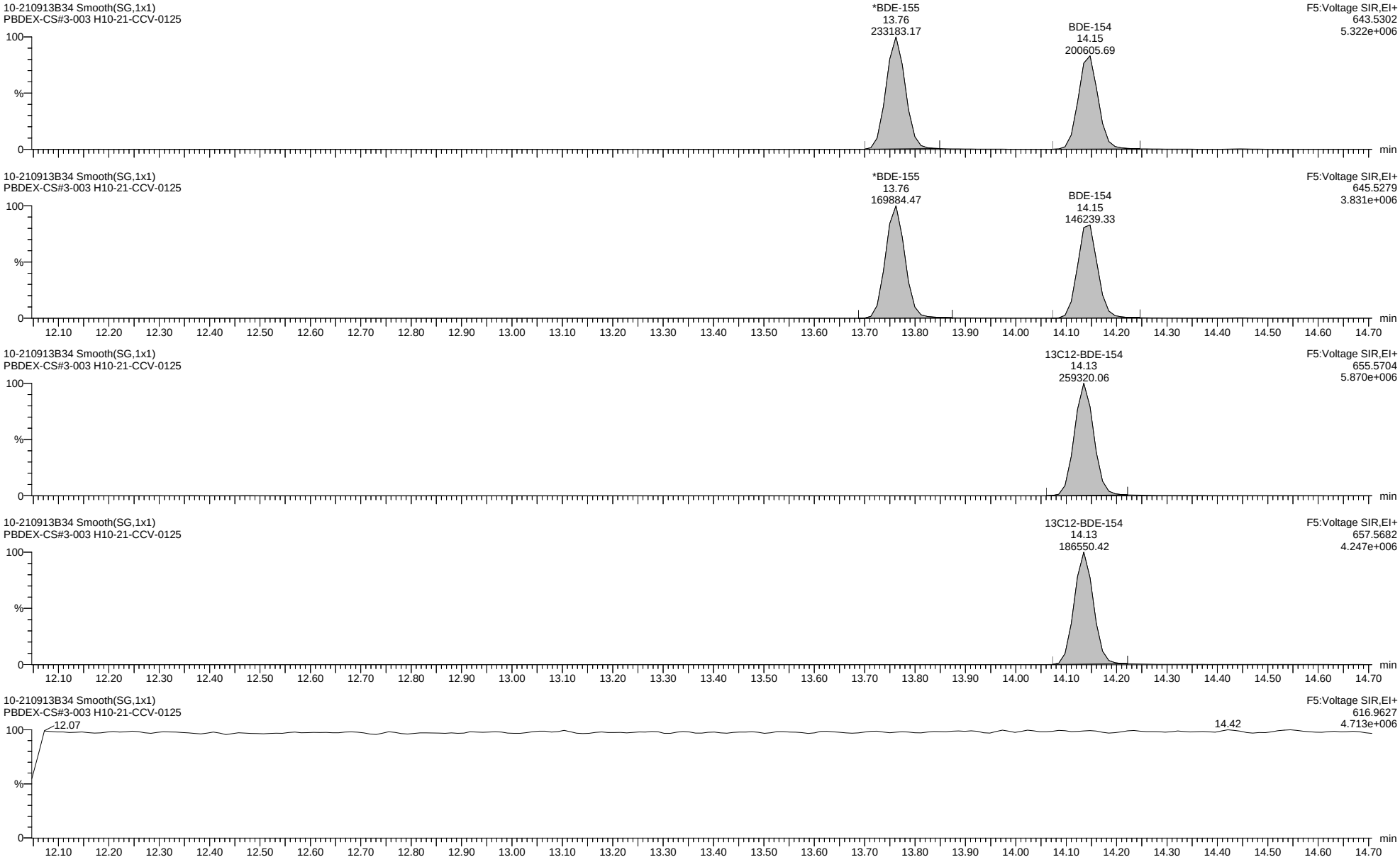

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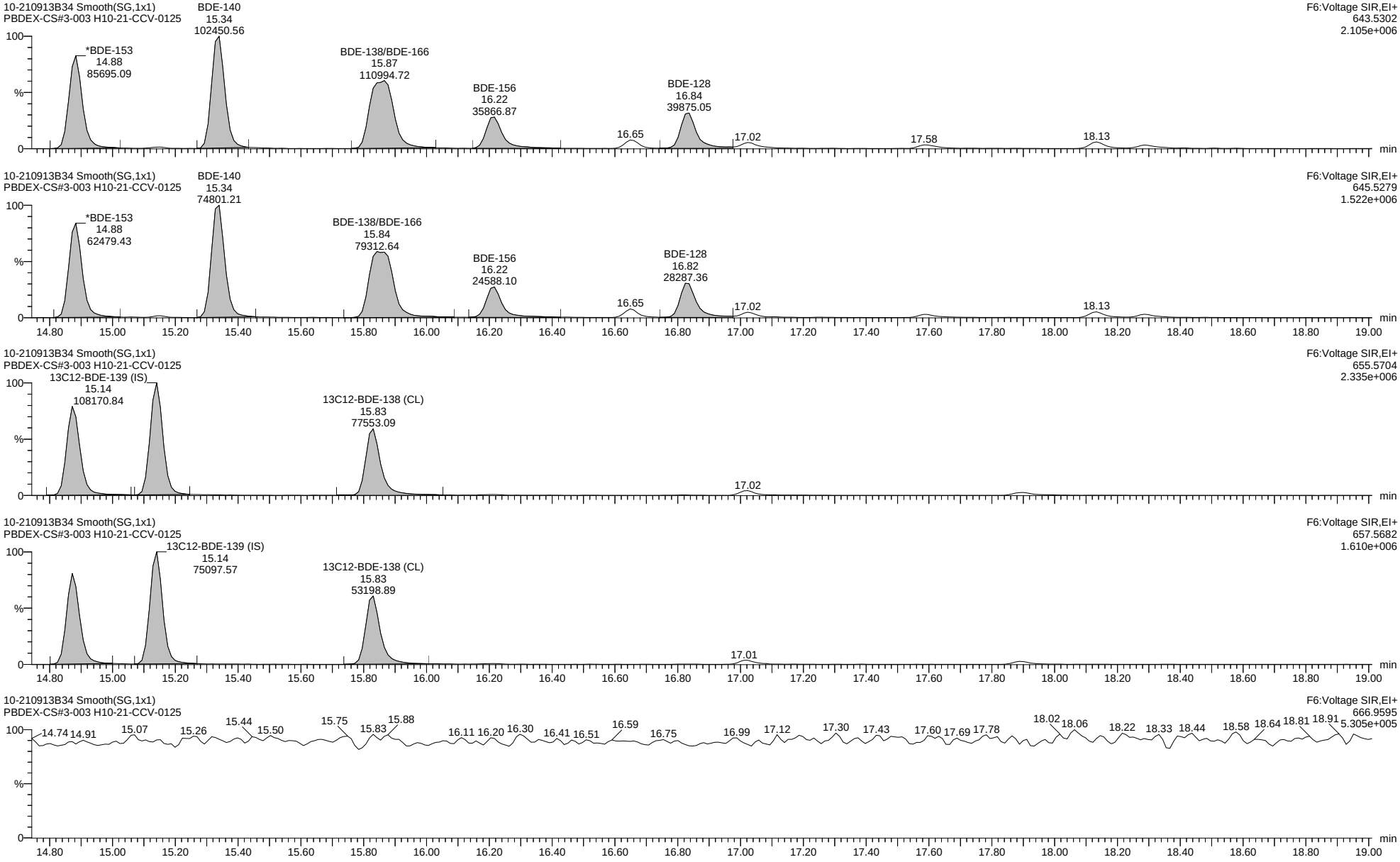

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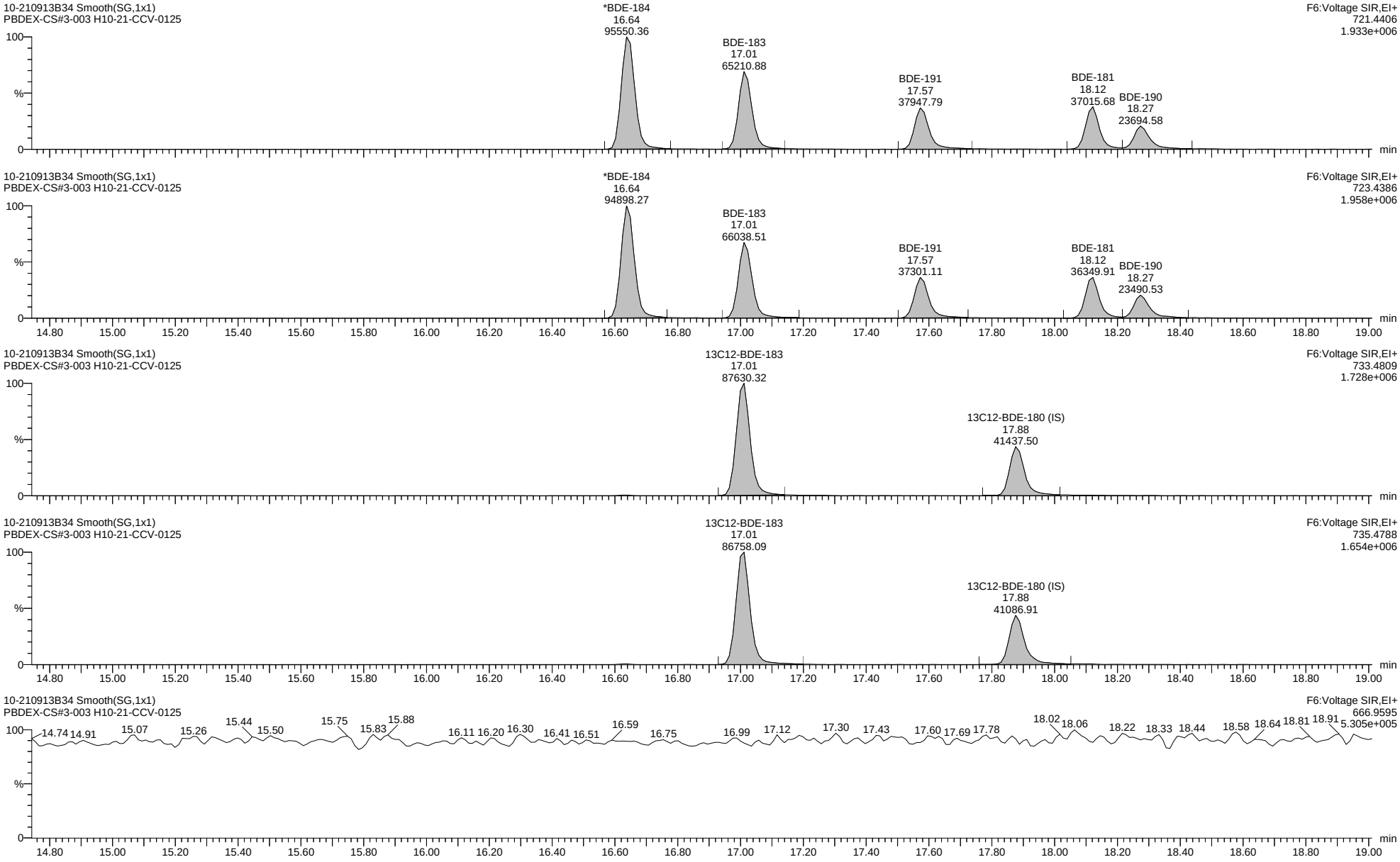

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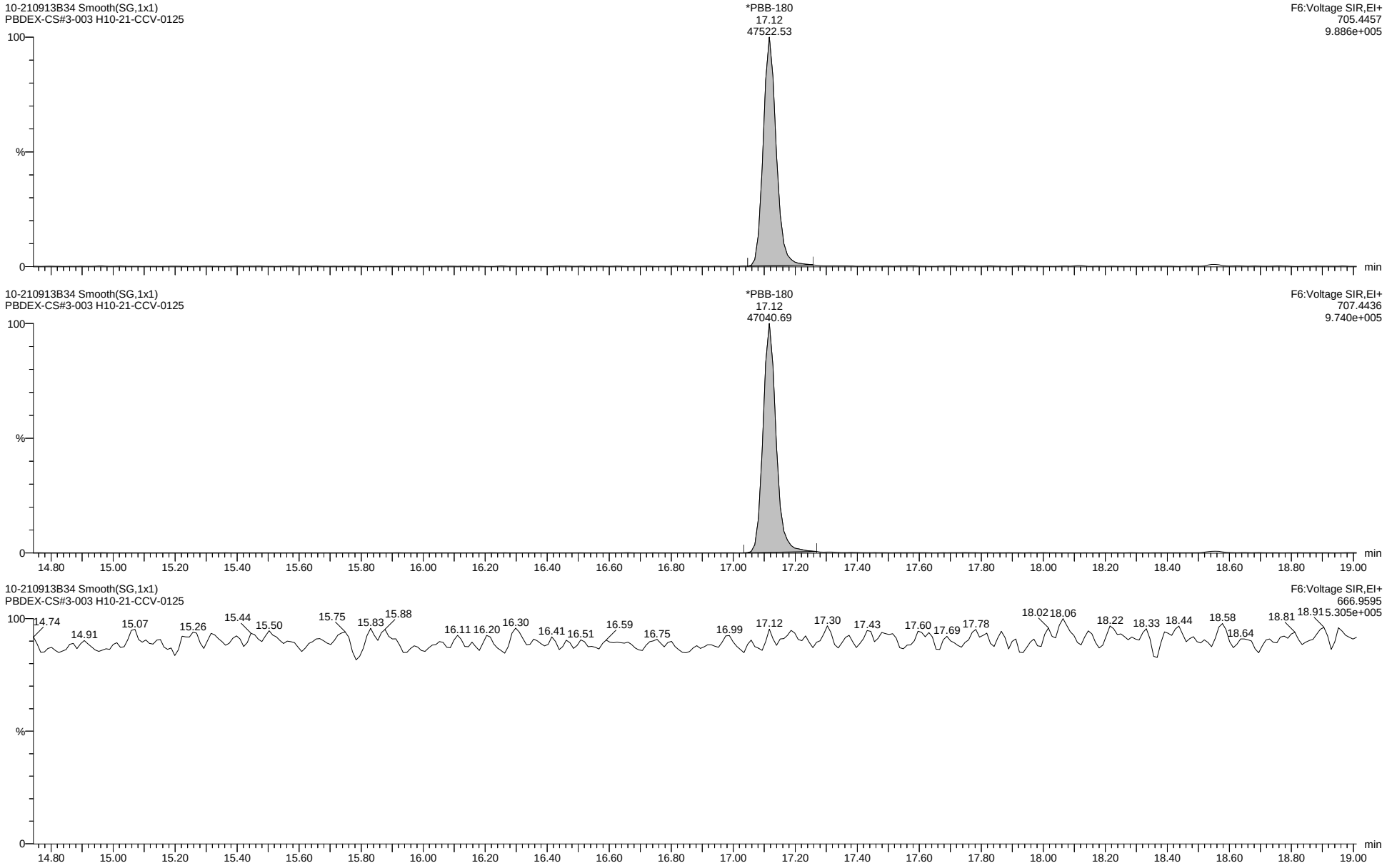

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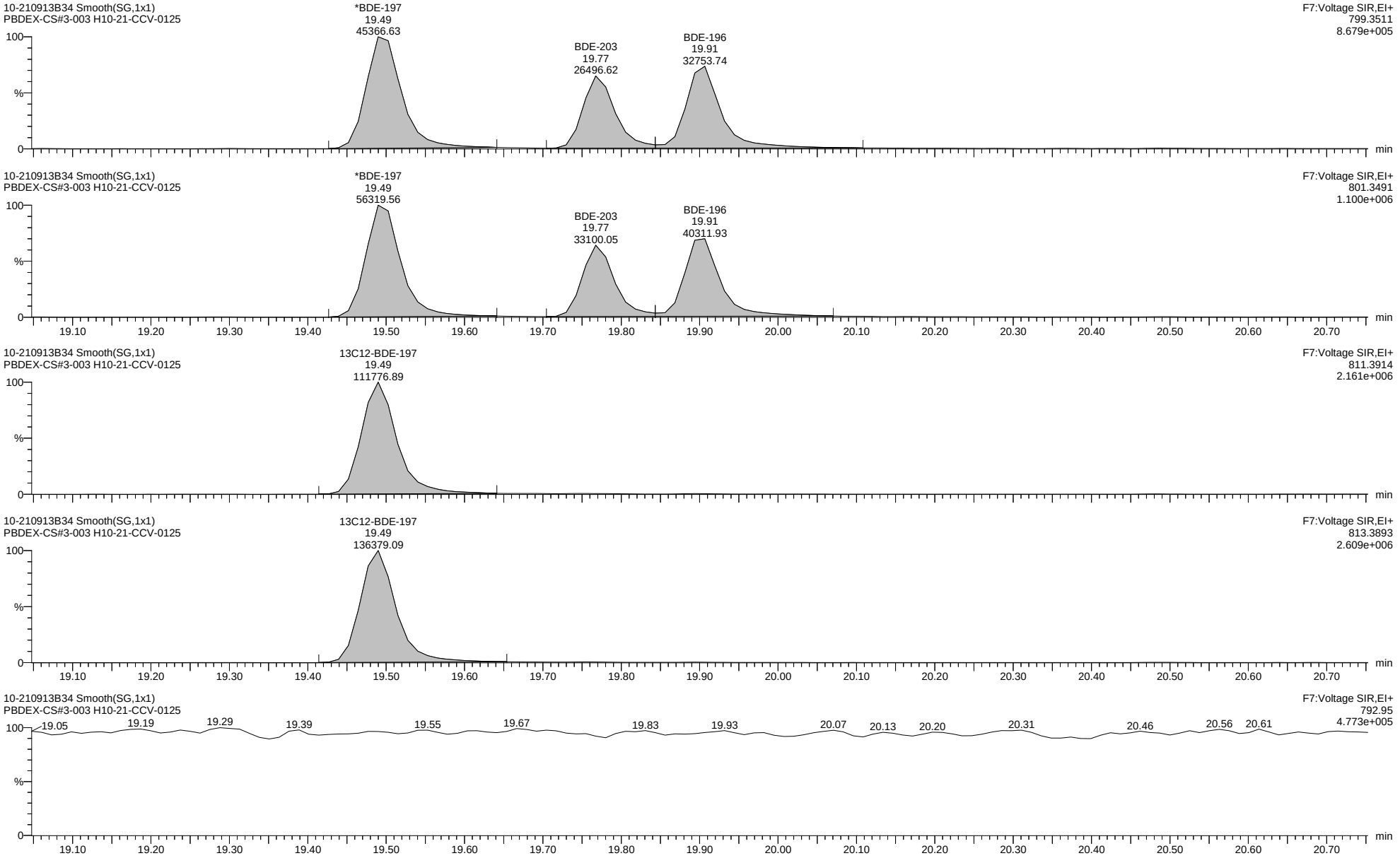

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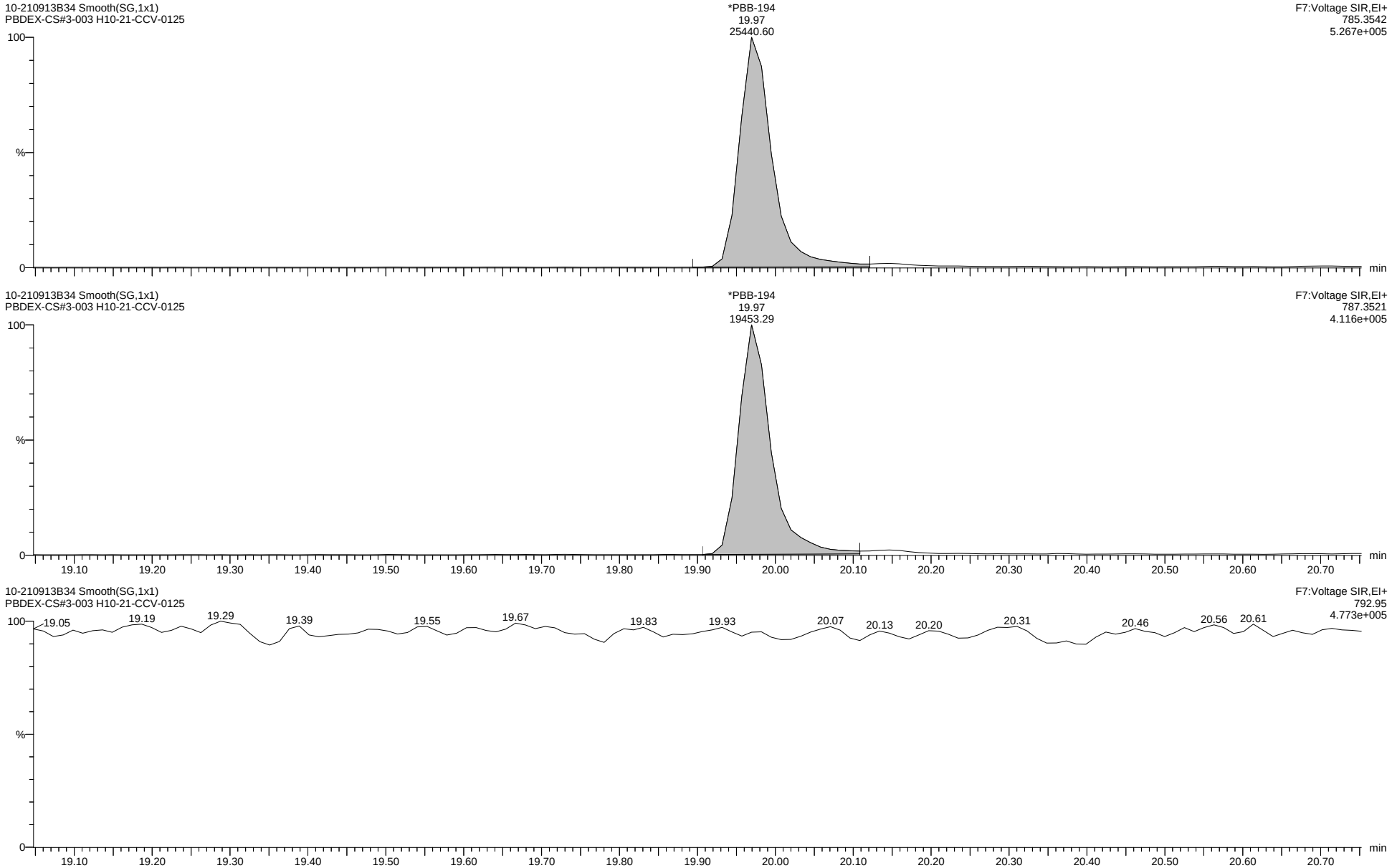

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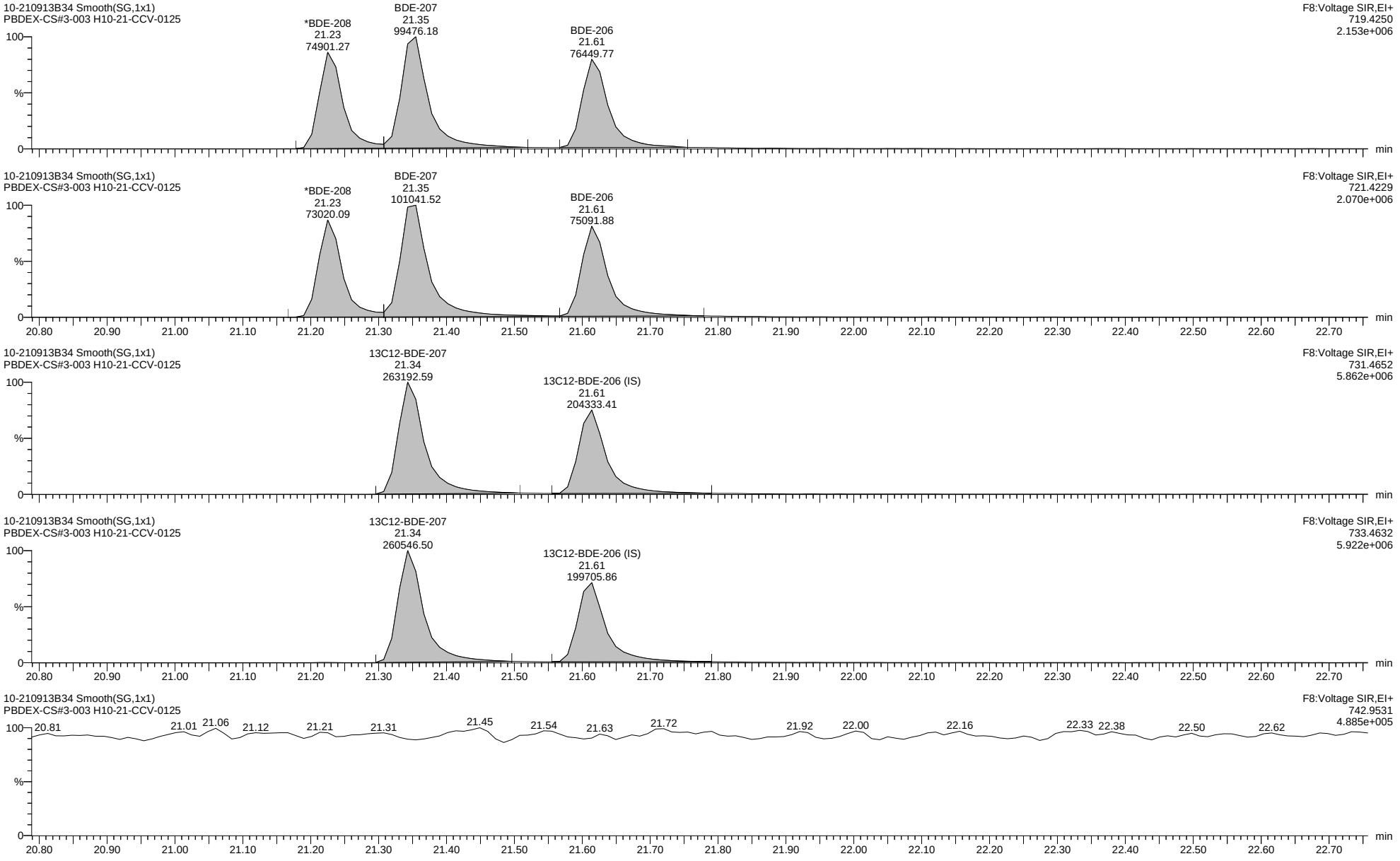

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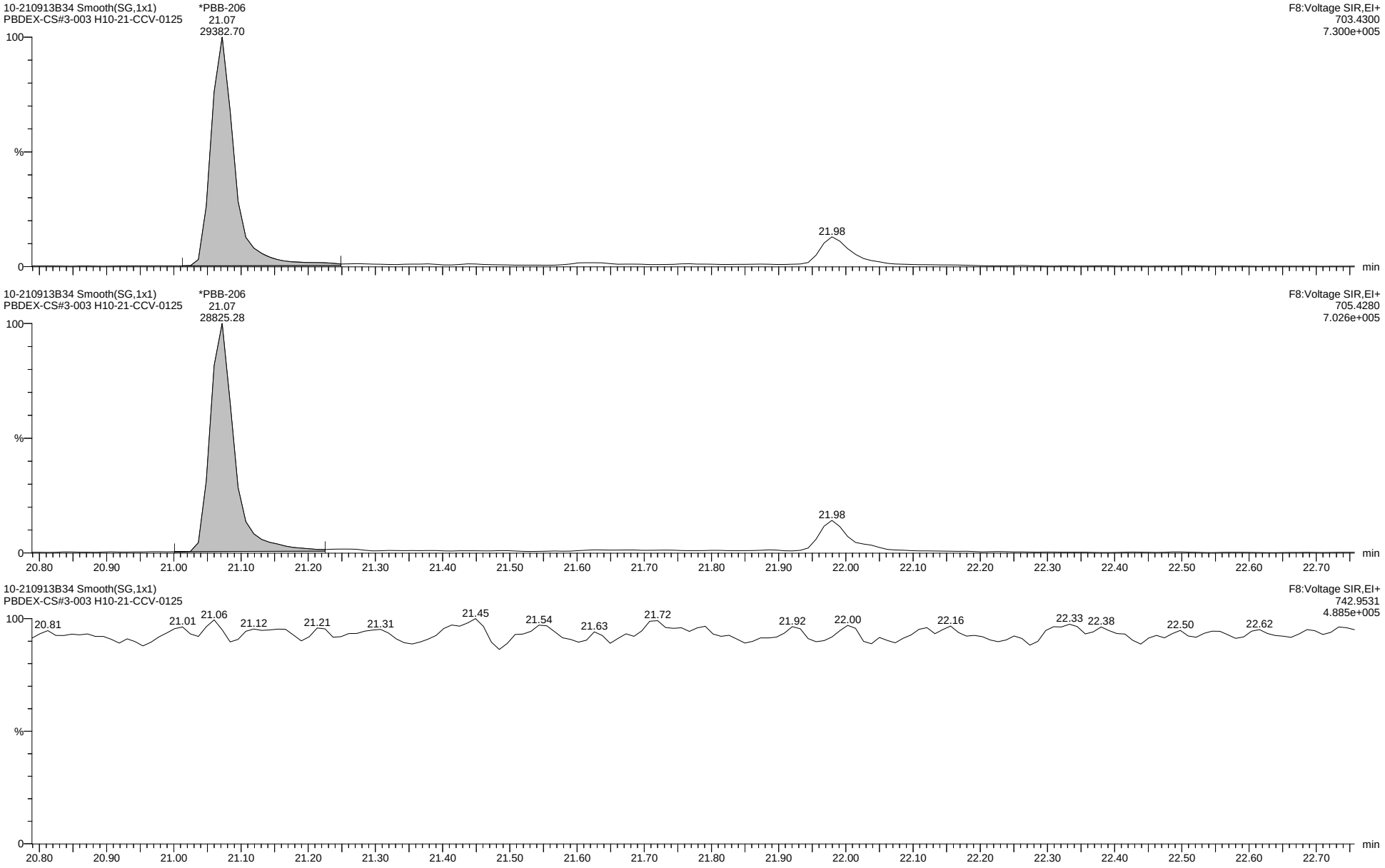

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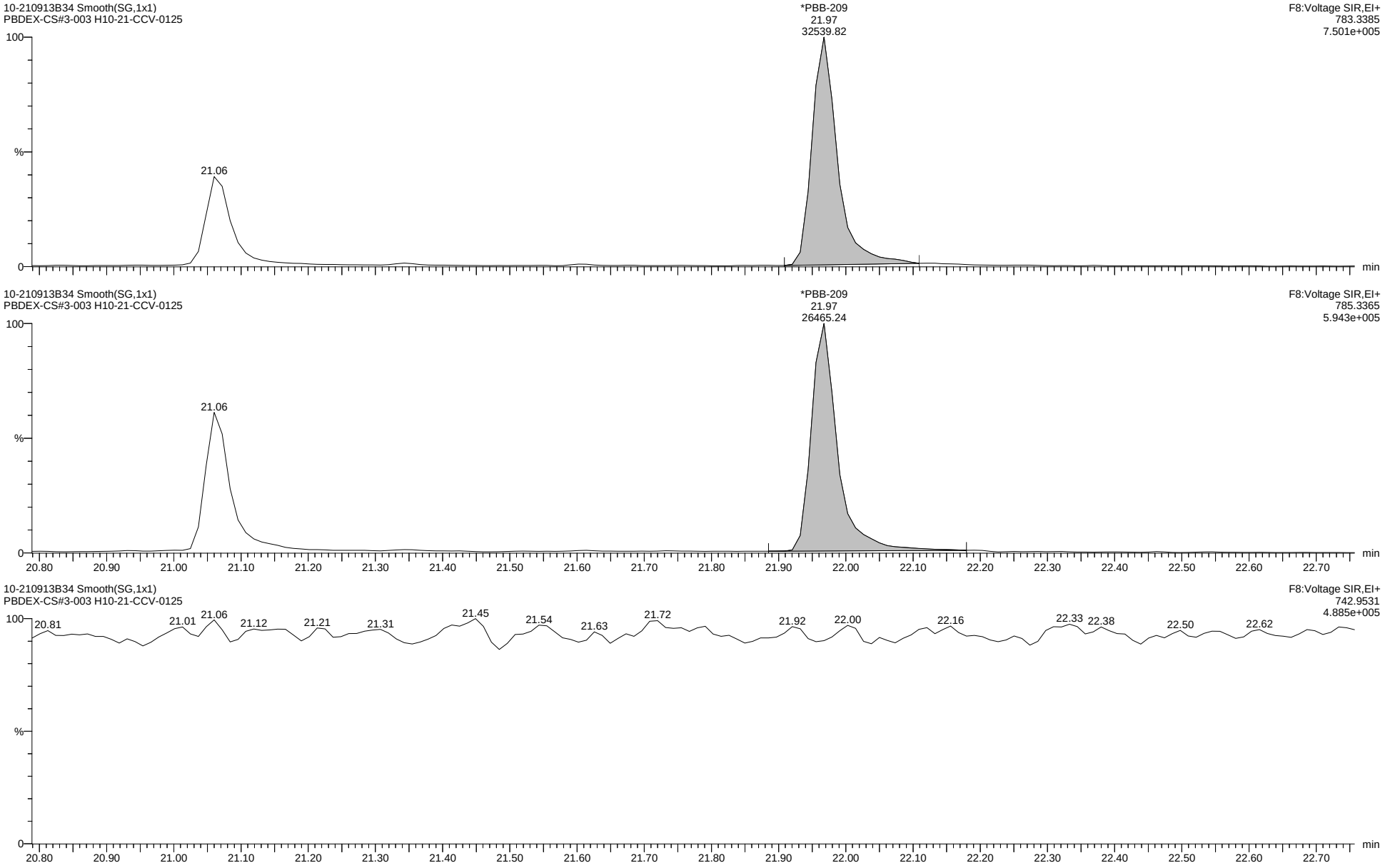

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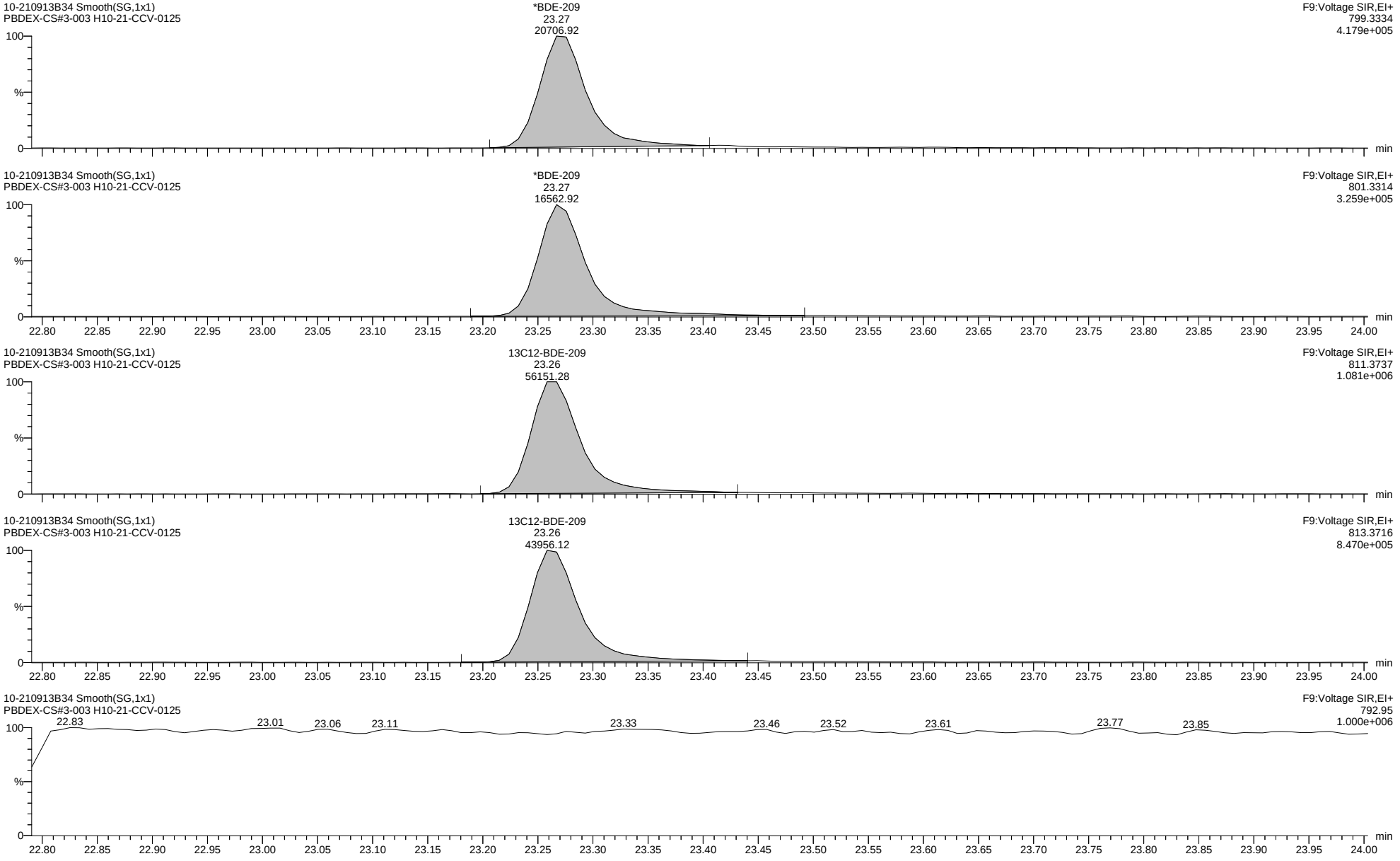

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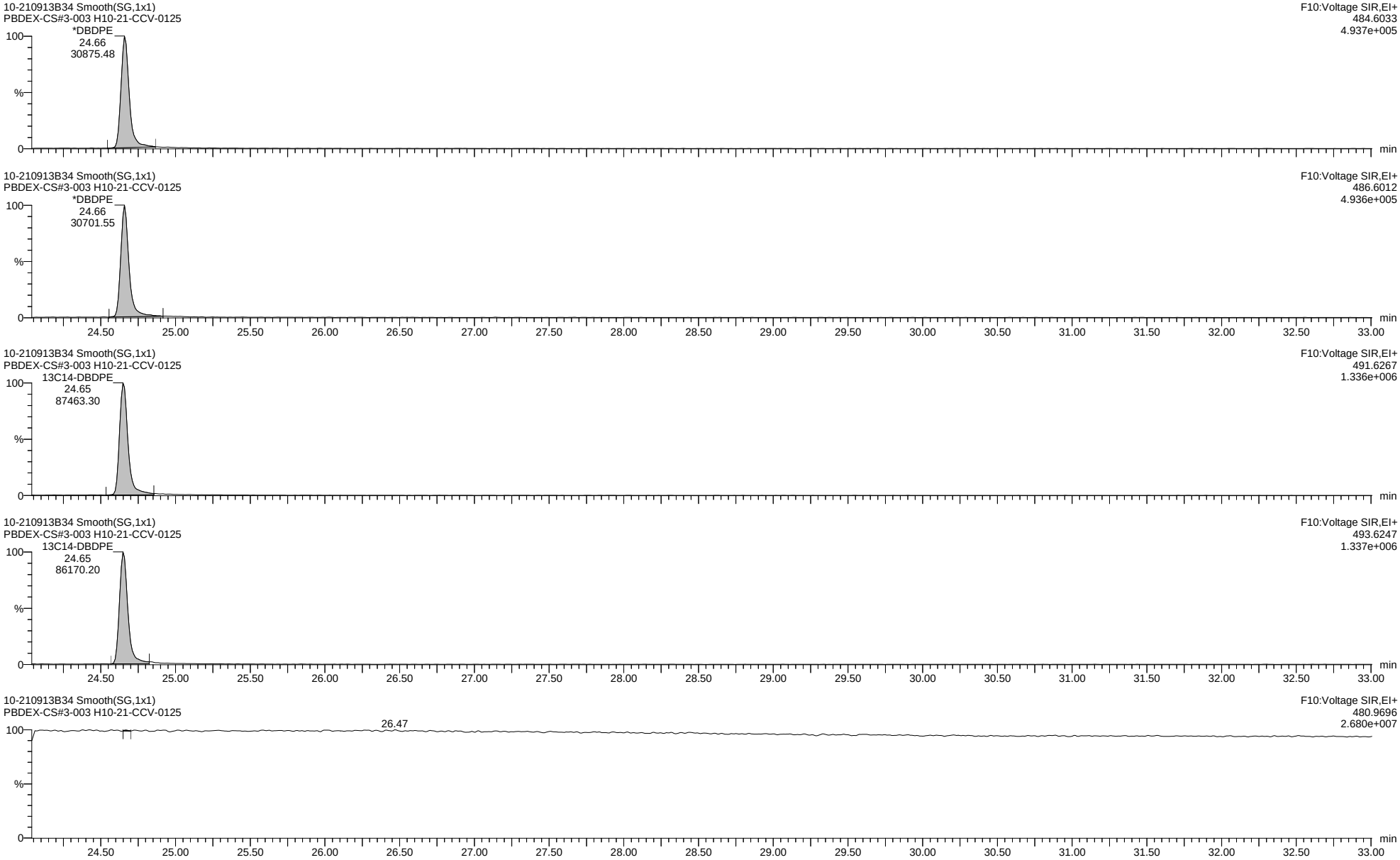

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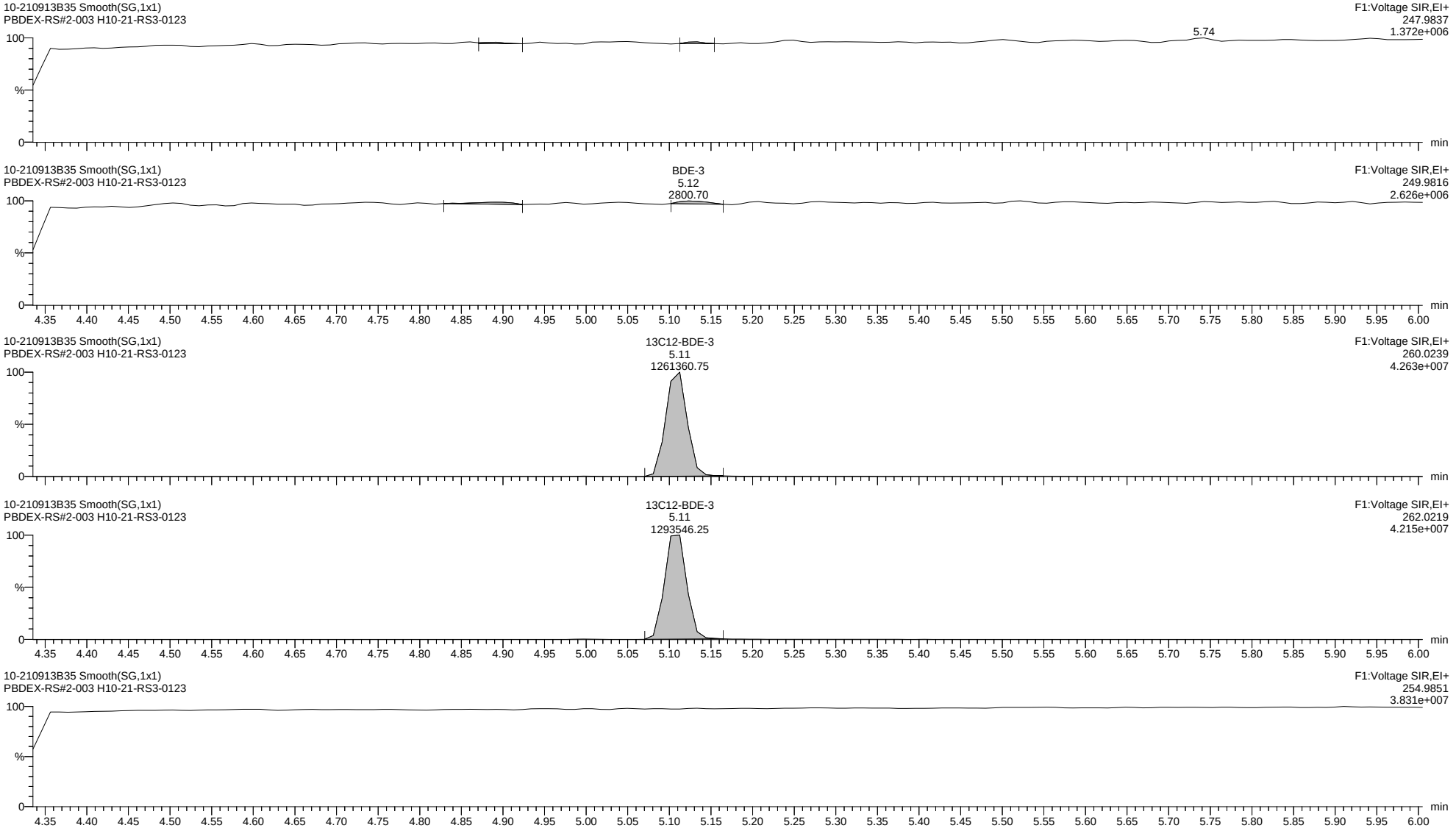

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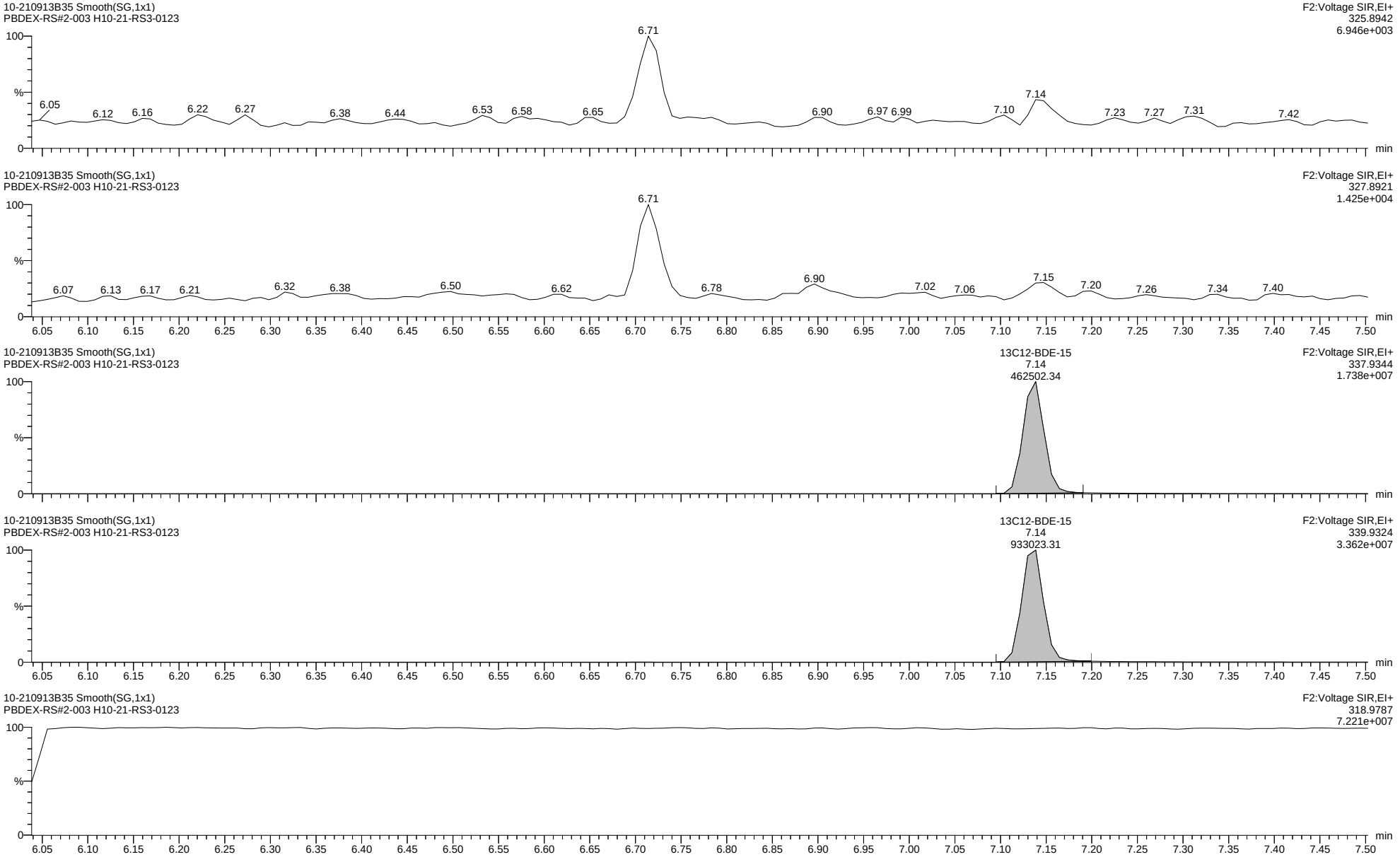

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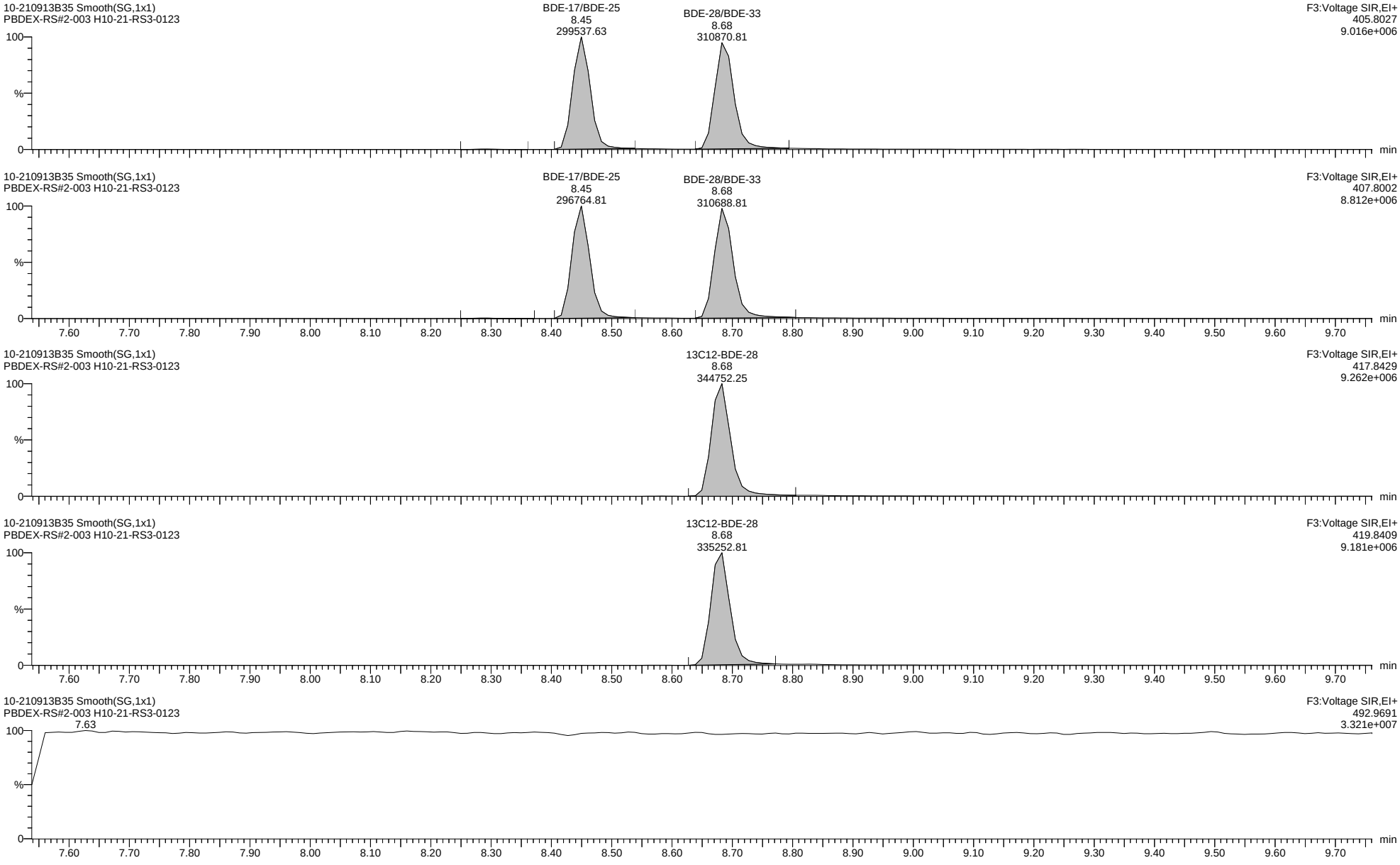

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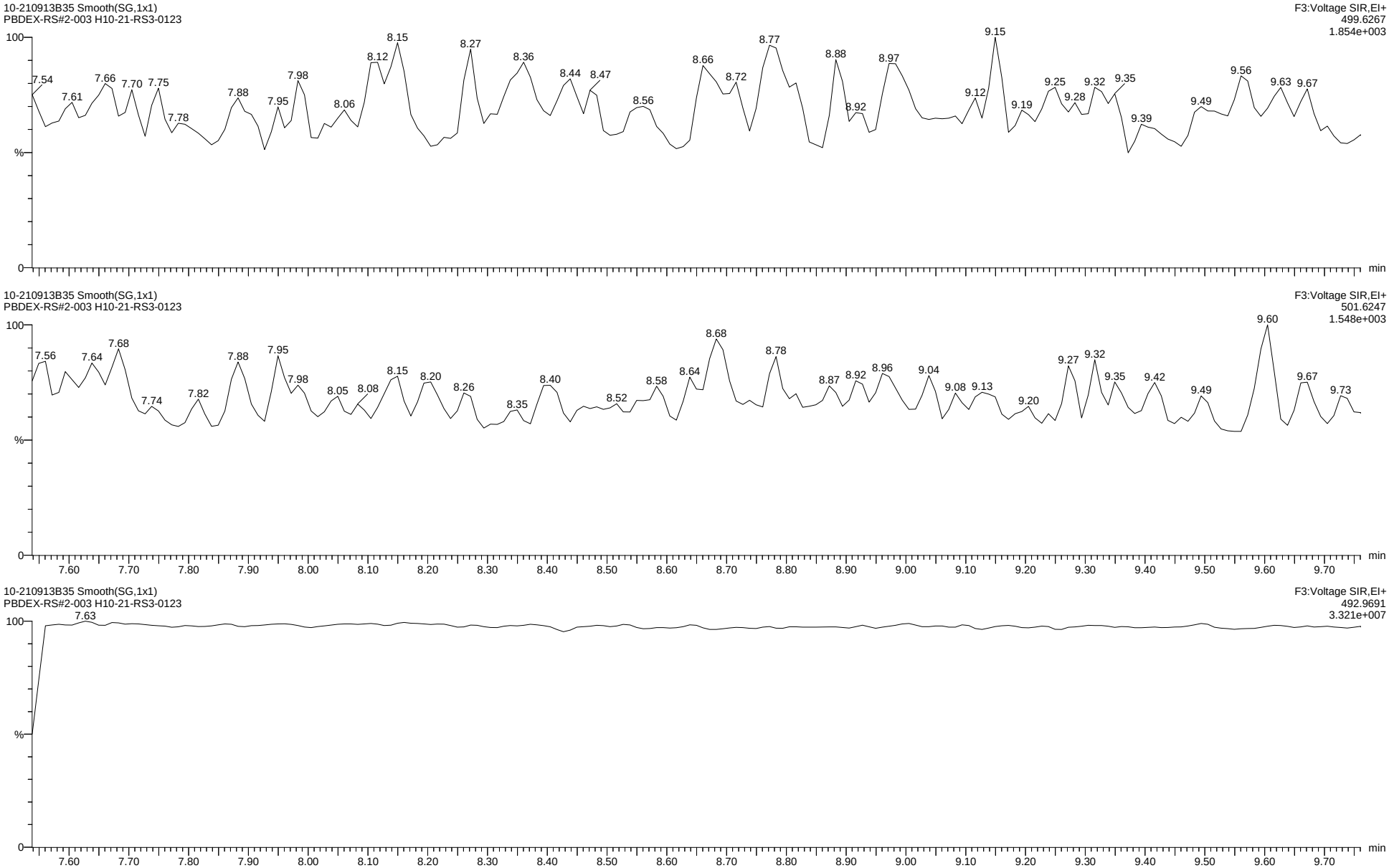

Quantify Sample Template Report **MassLynx MassLynx V4.1 SCN 901**

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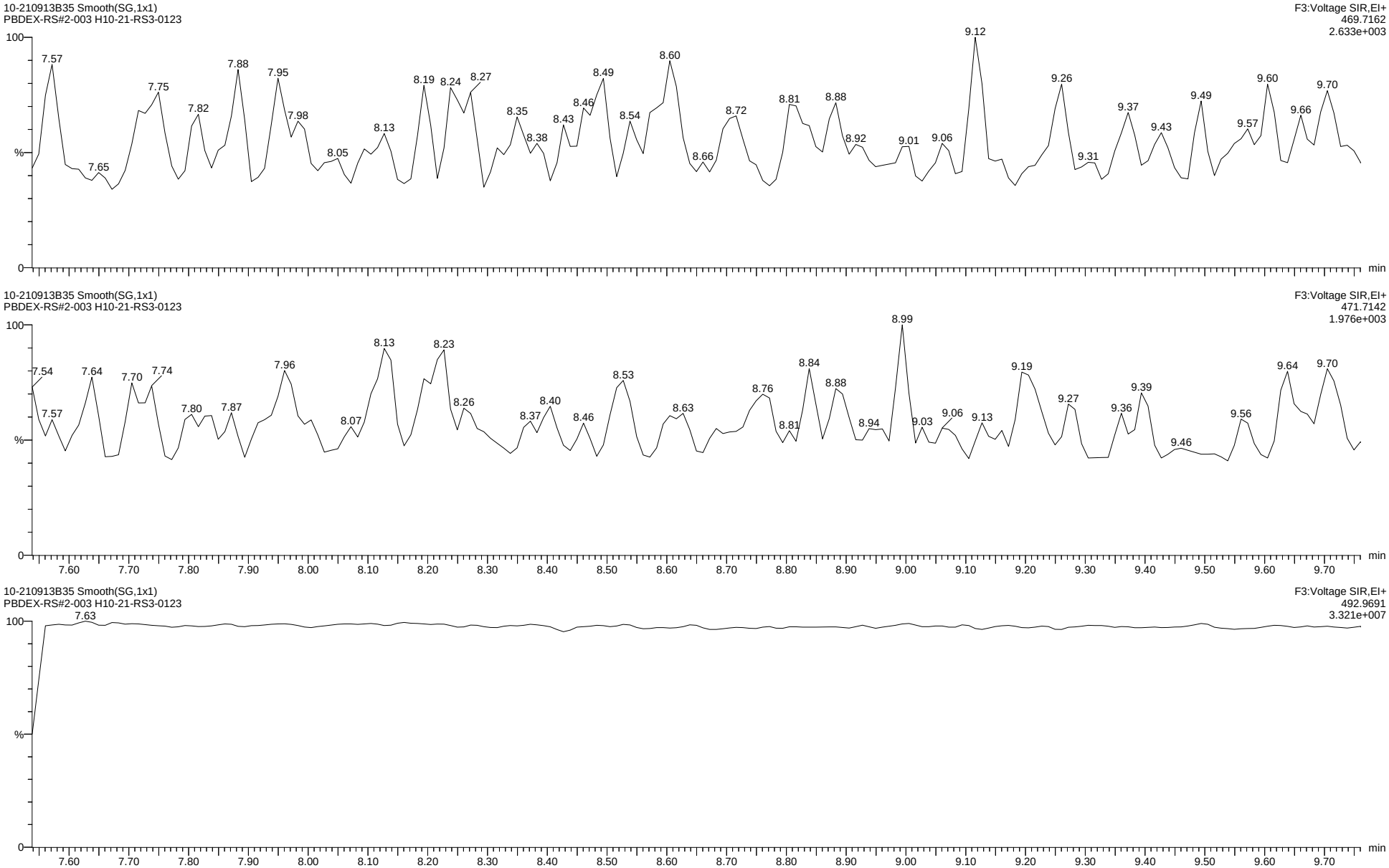

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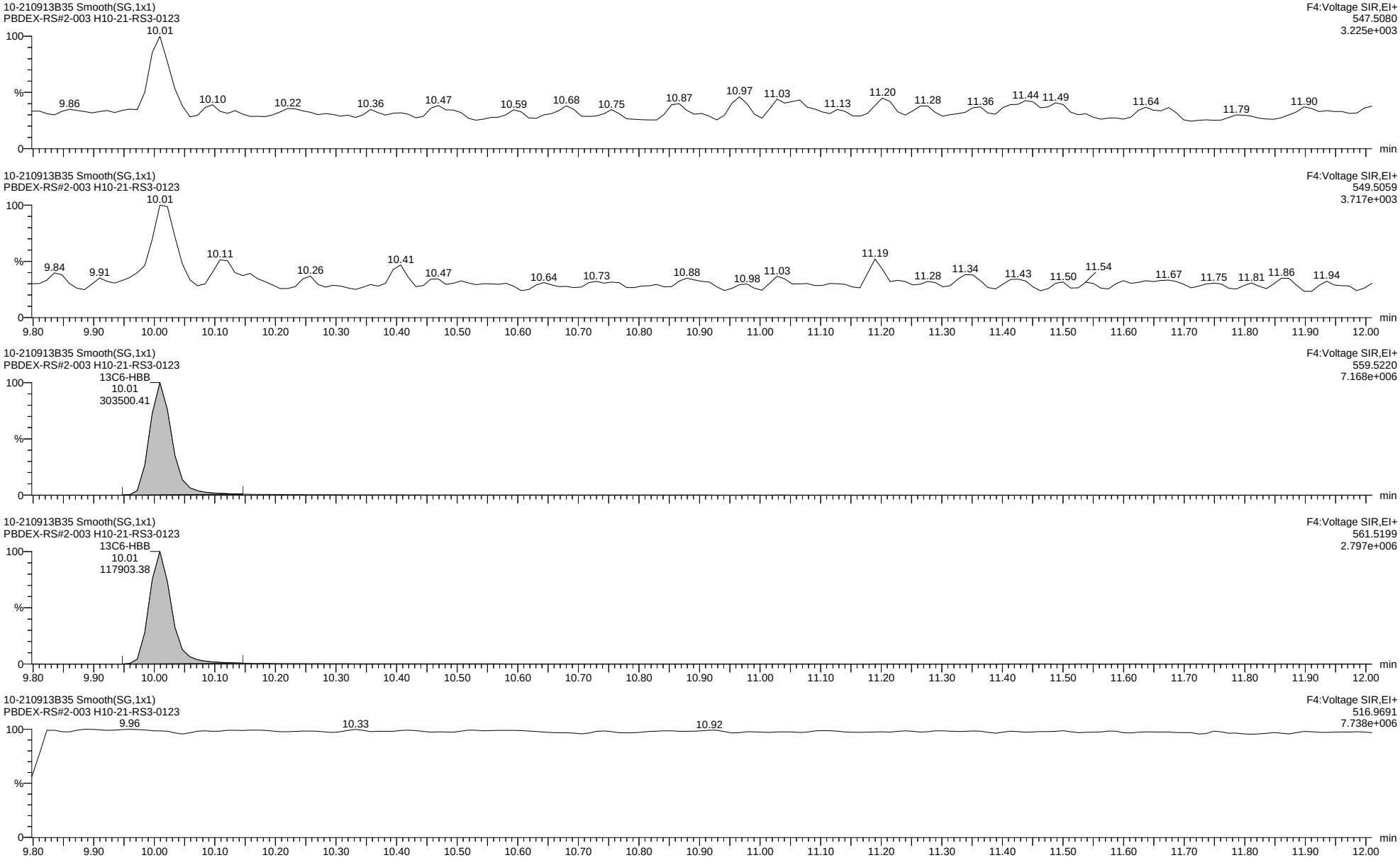

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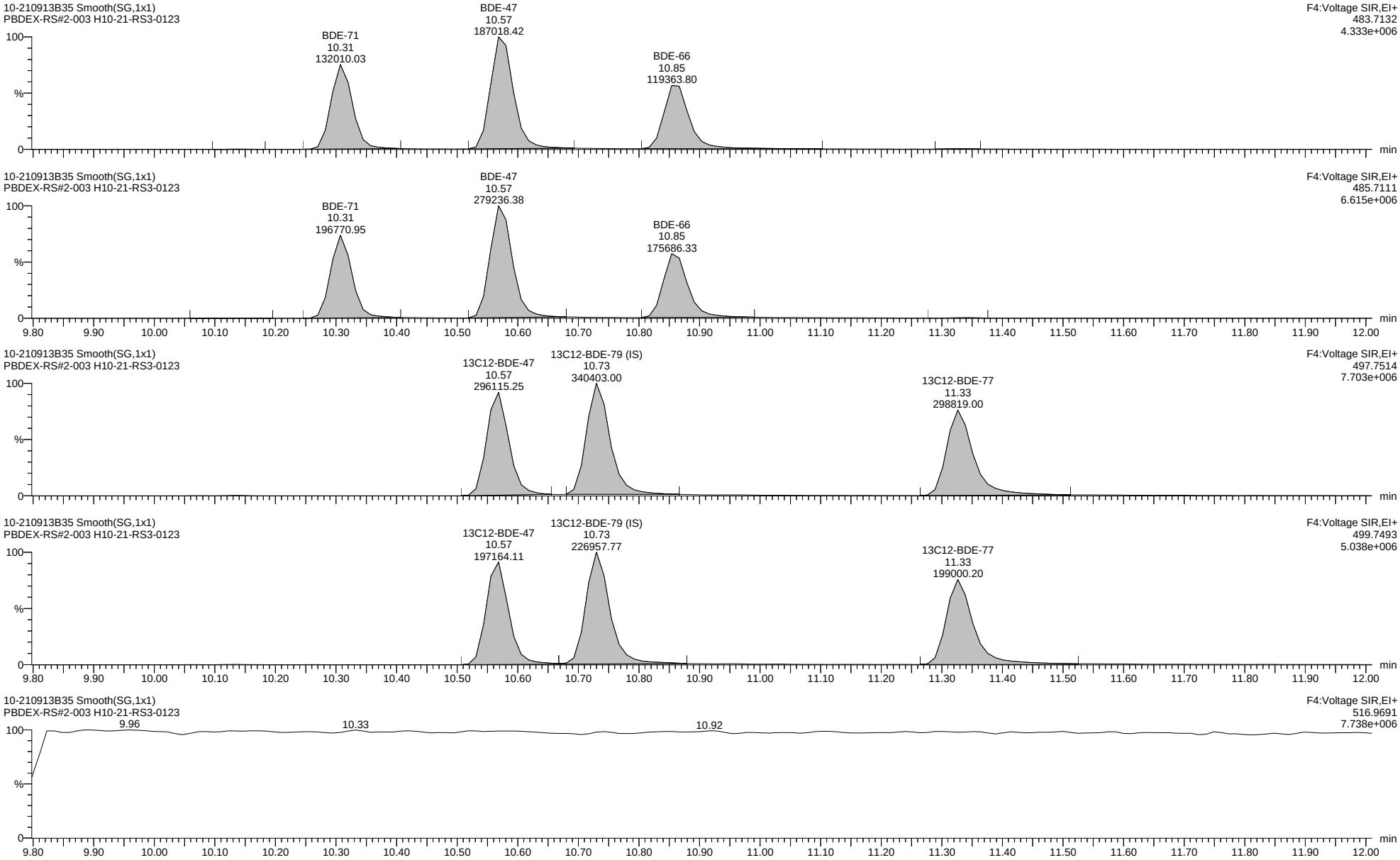

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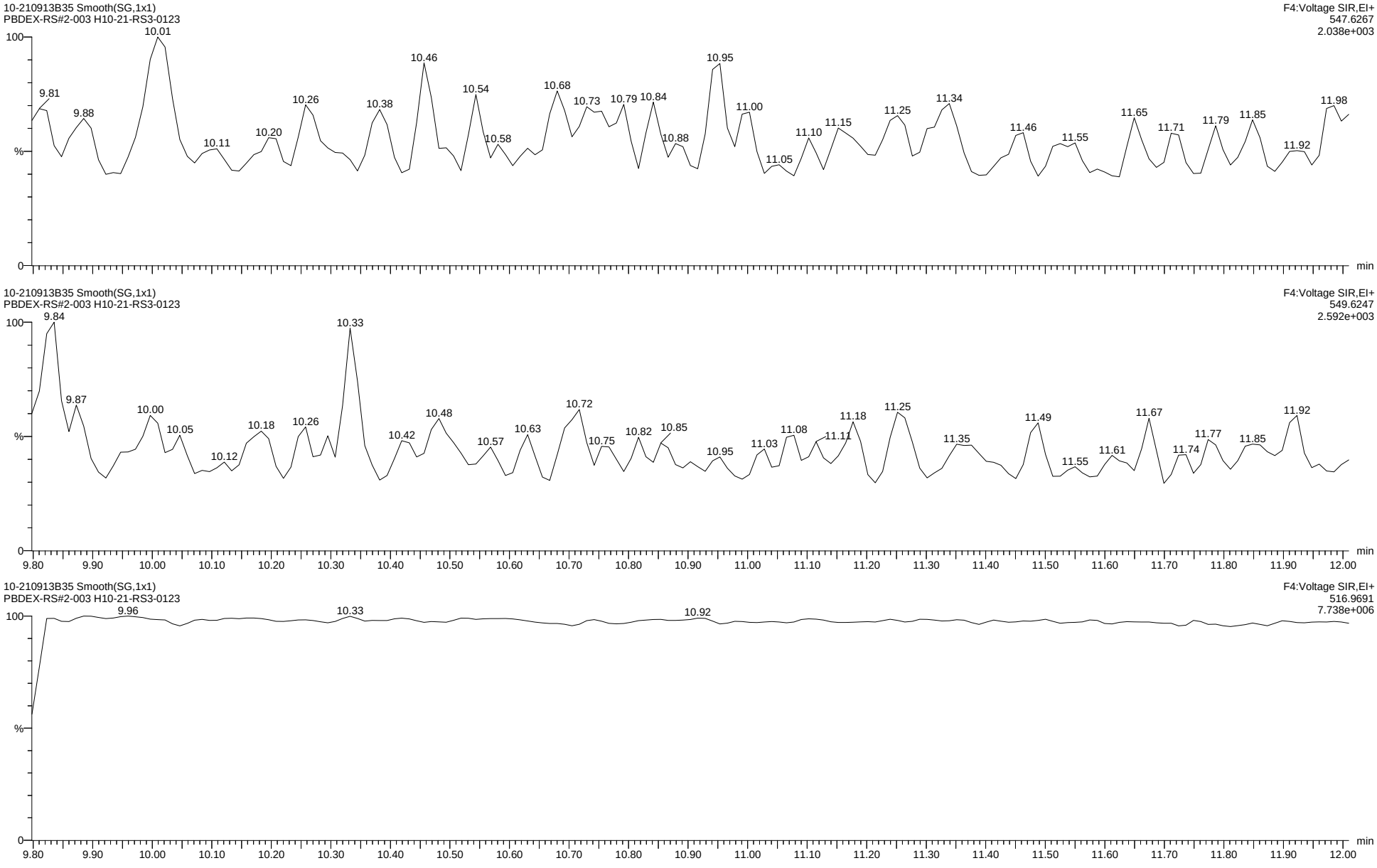

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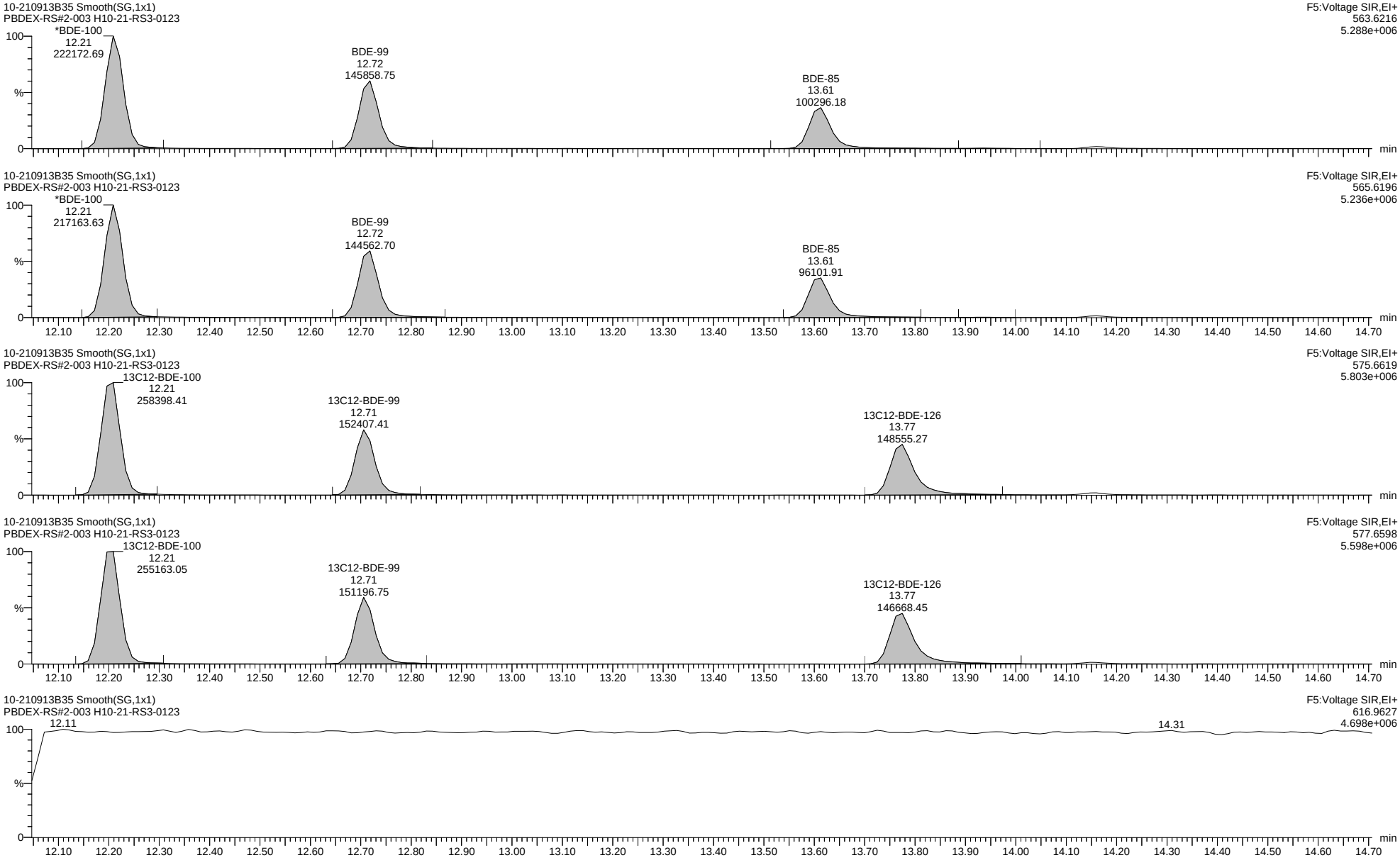

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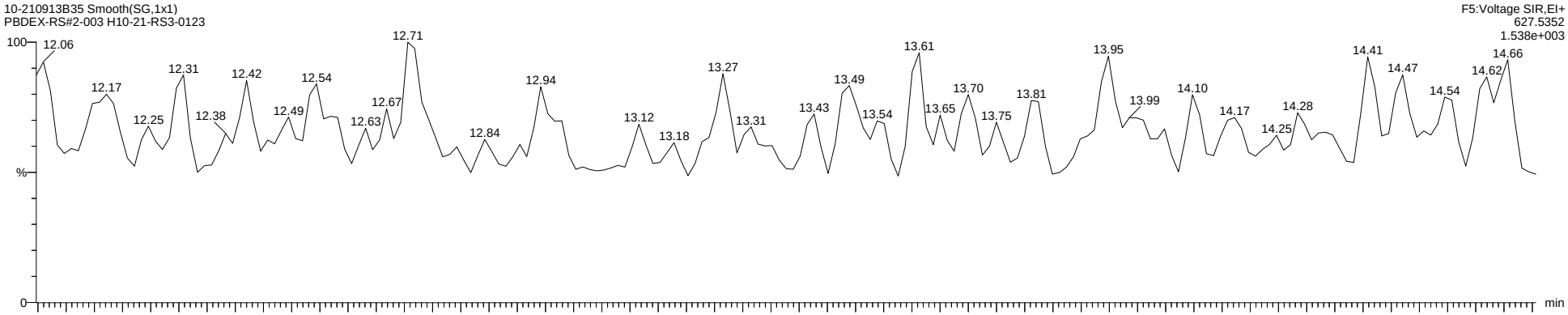

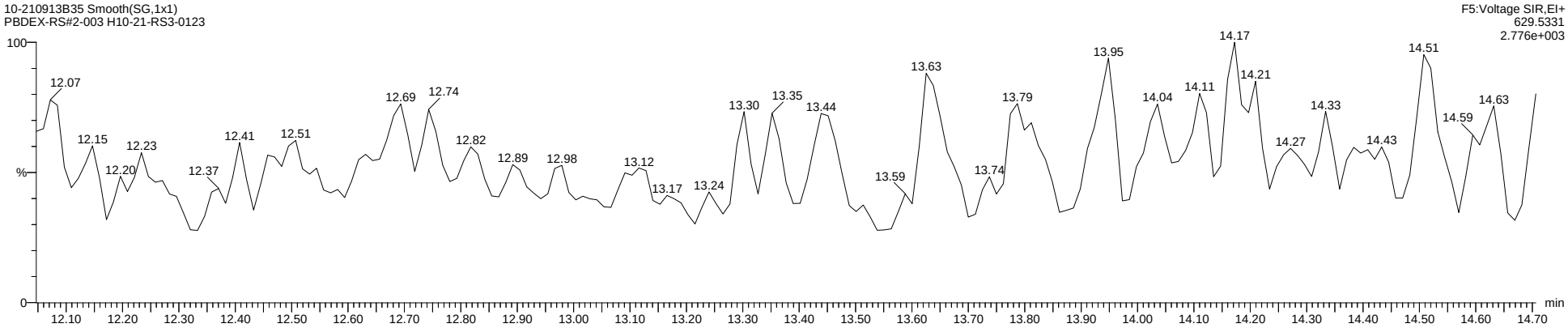

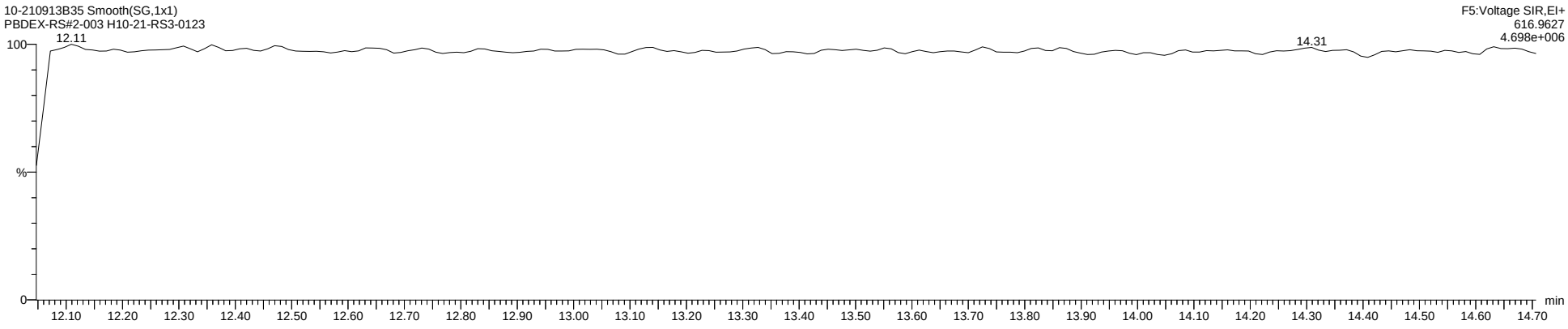

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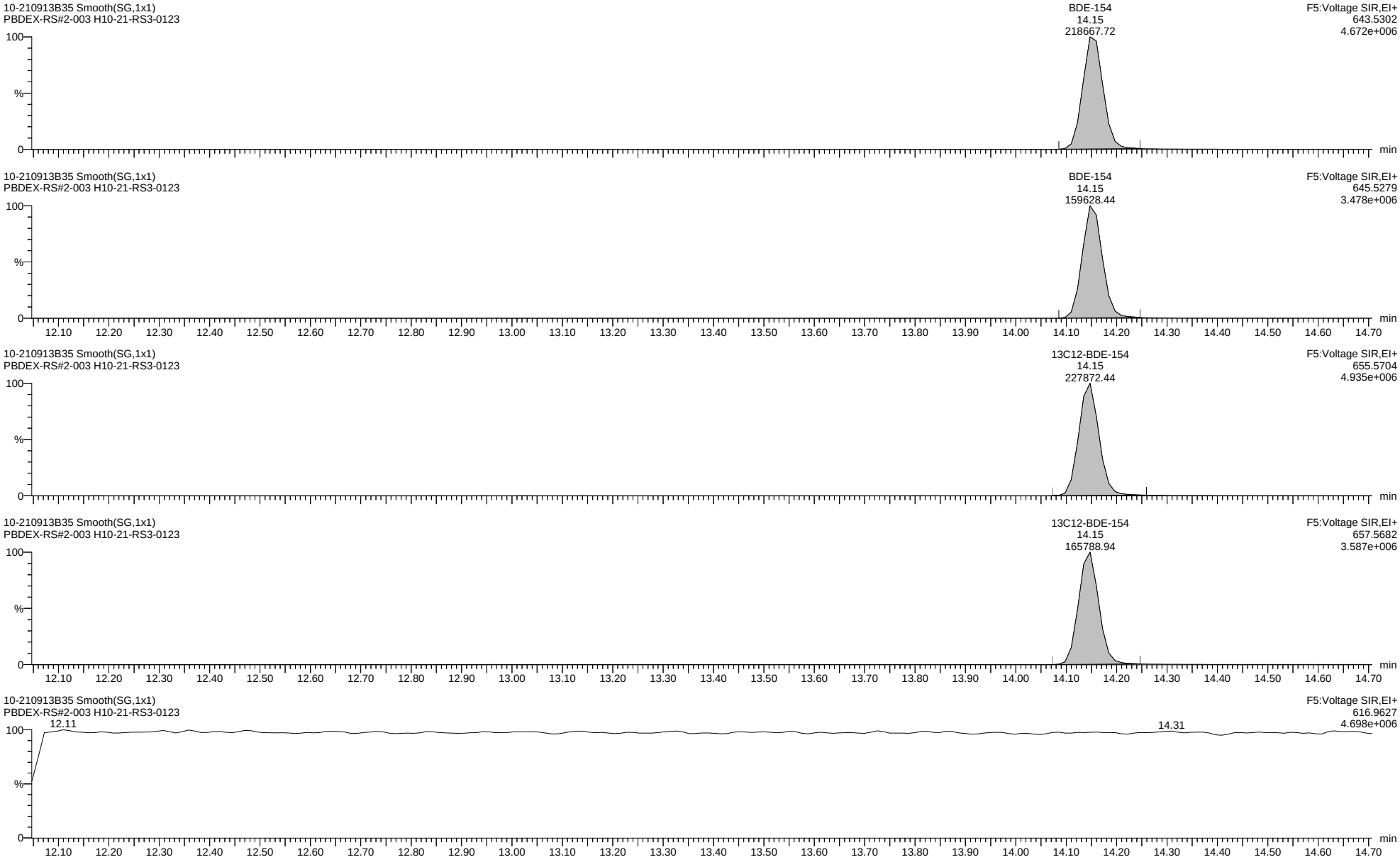

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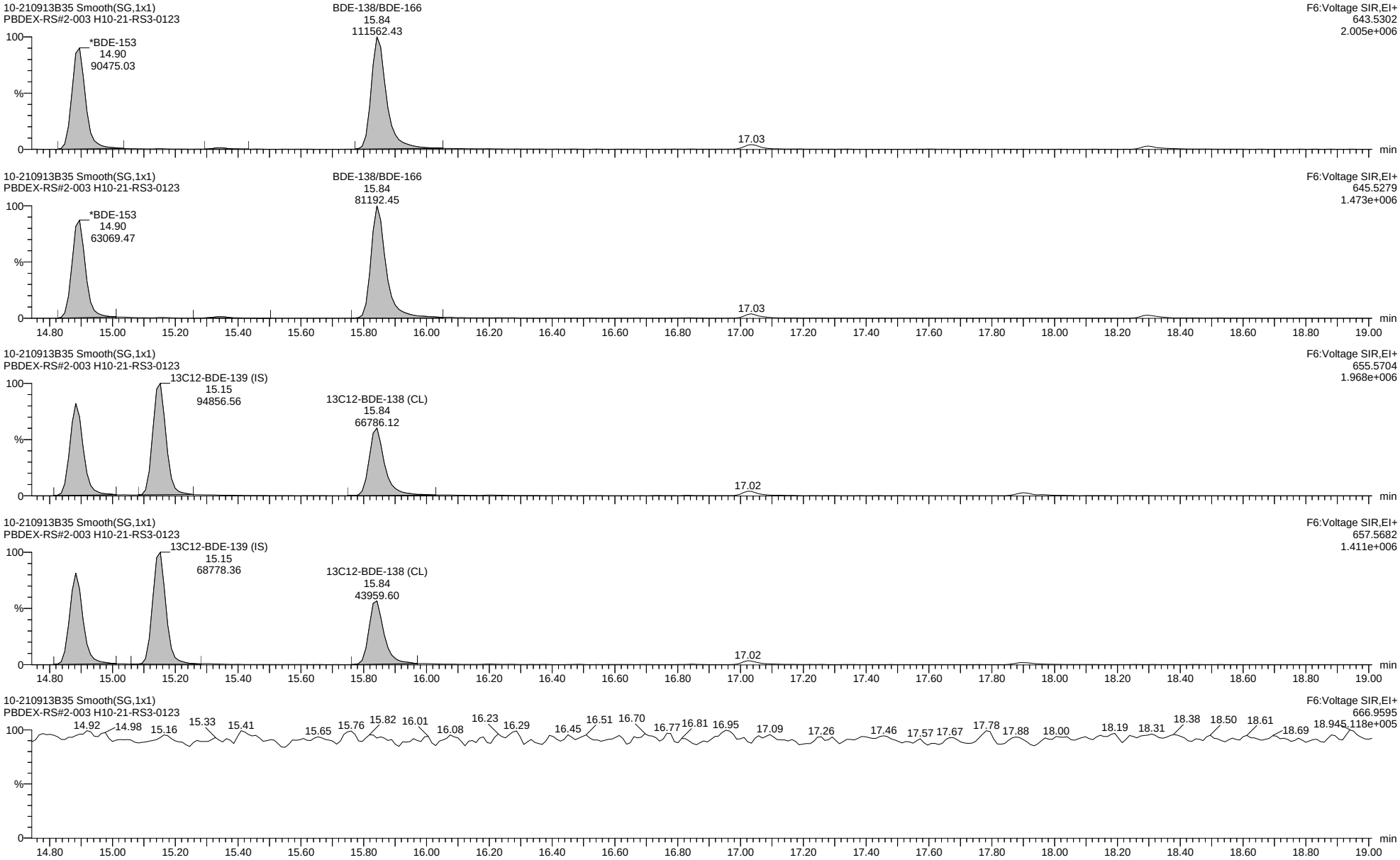

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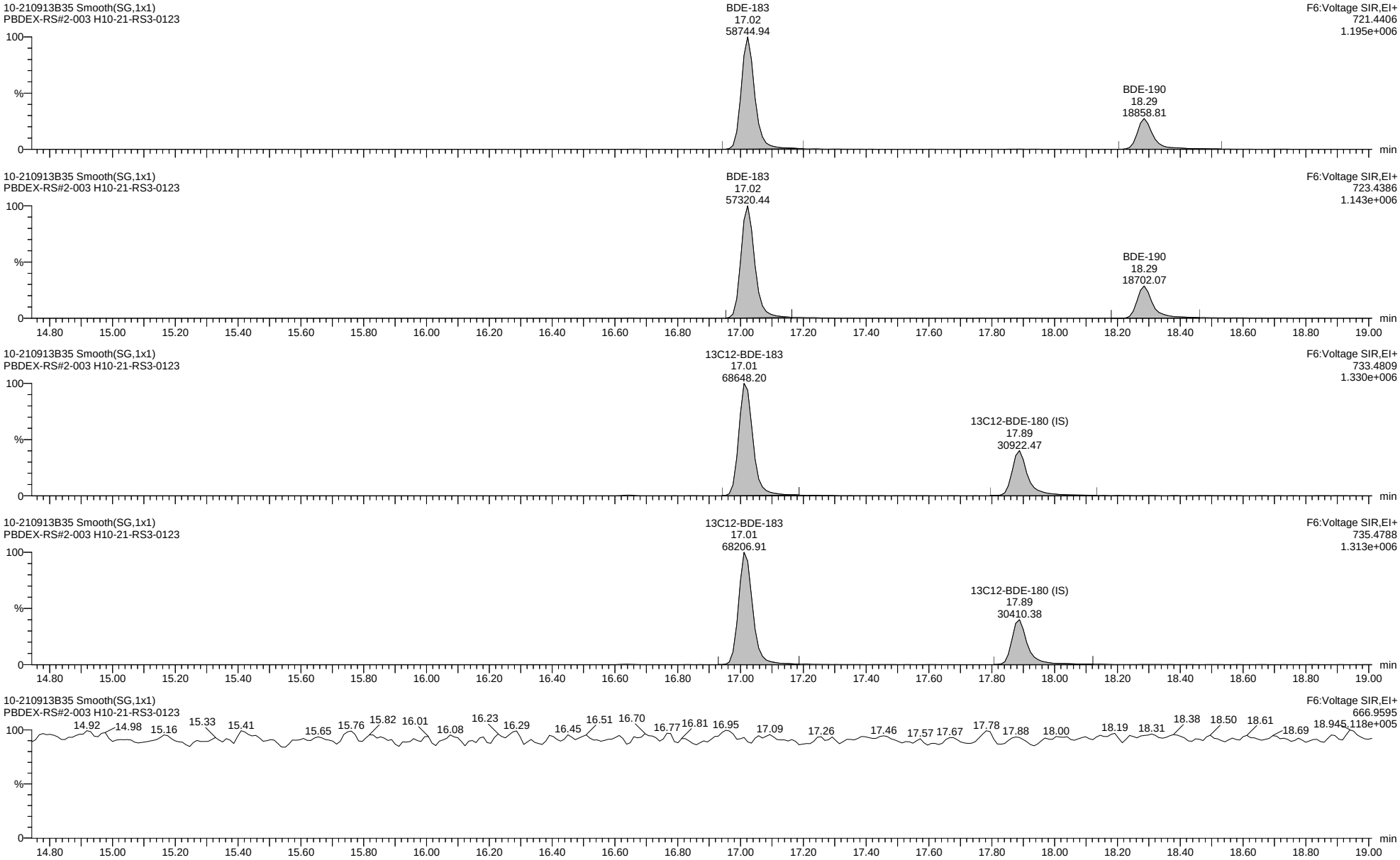

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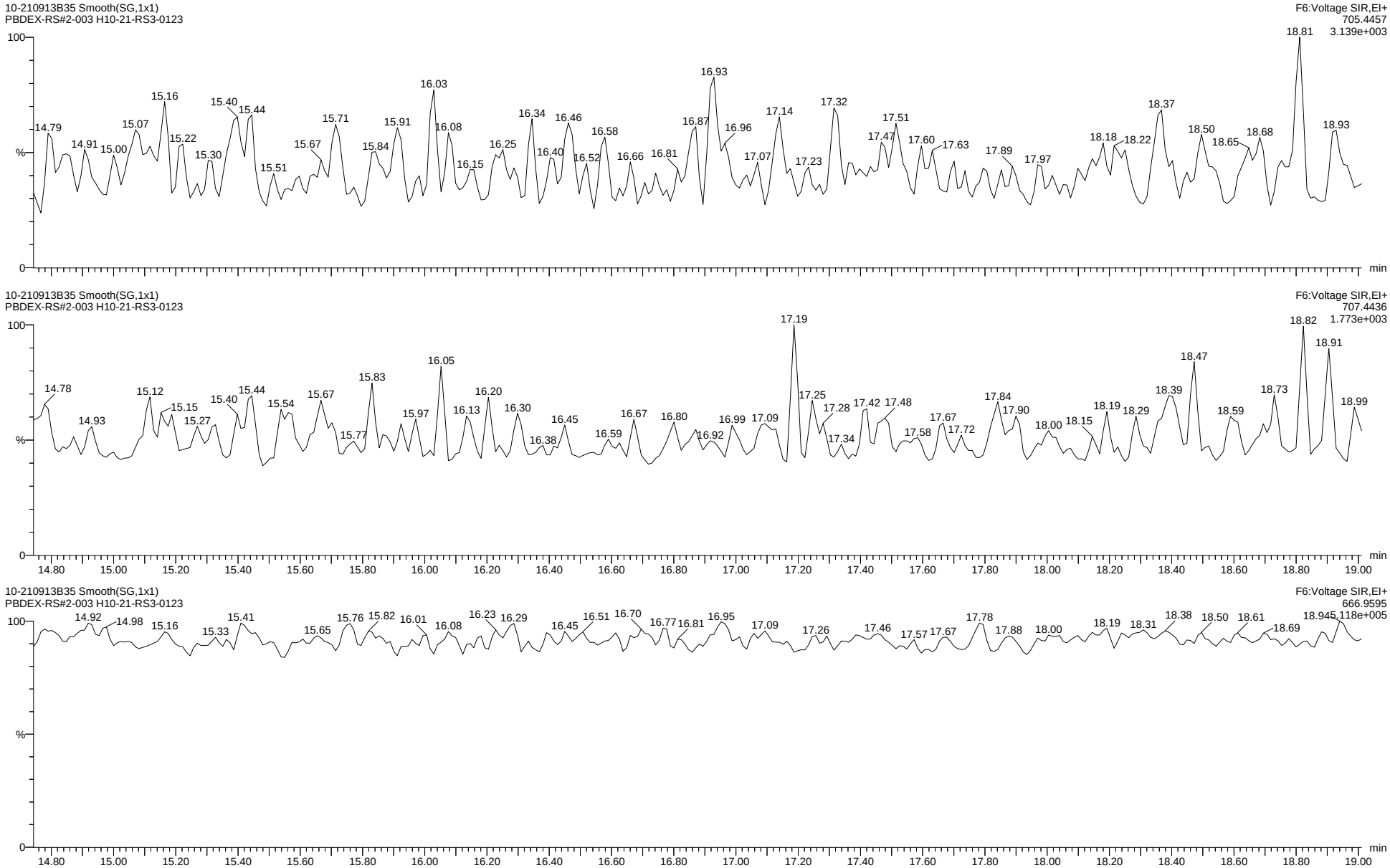

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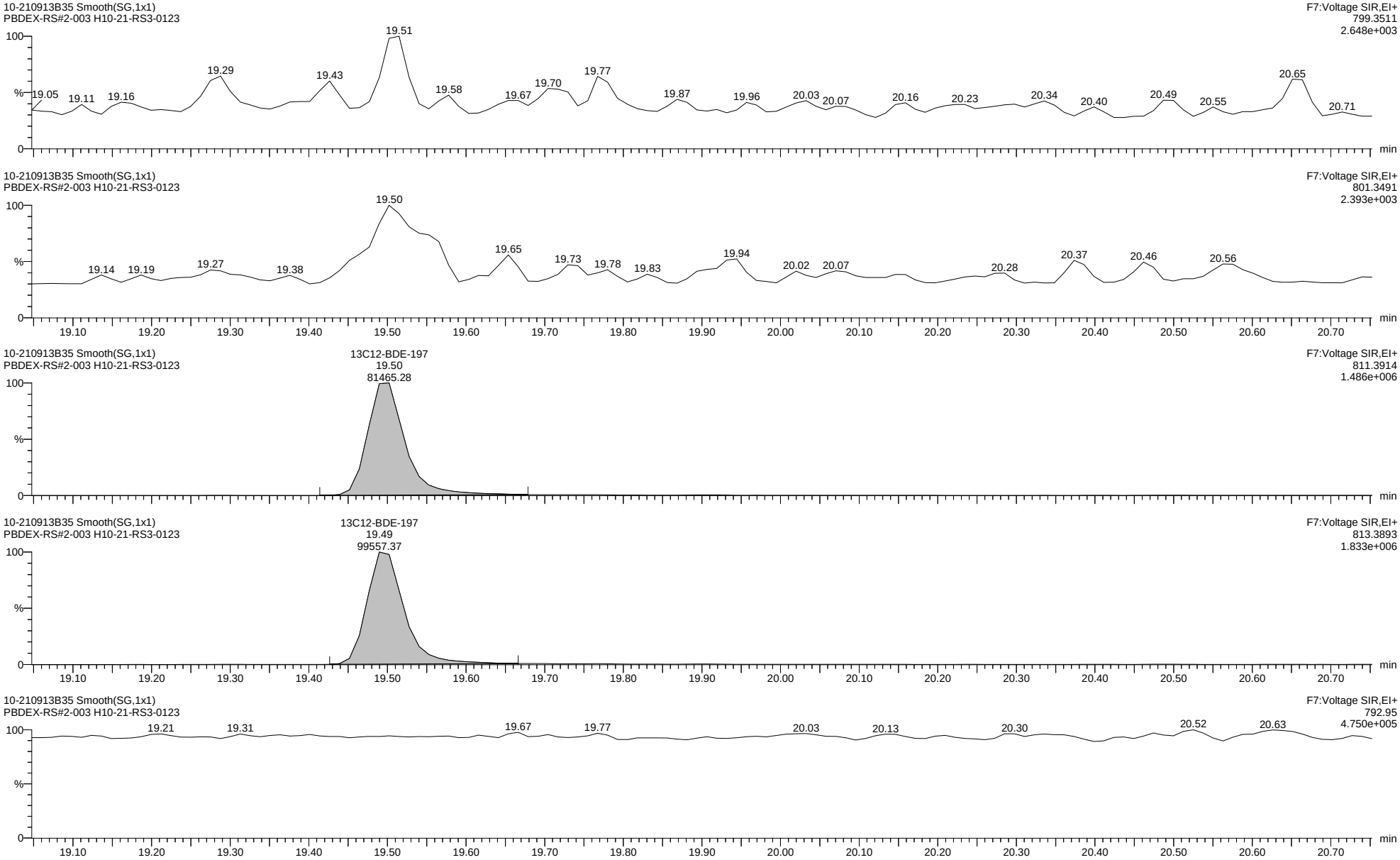

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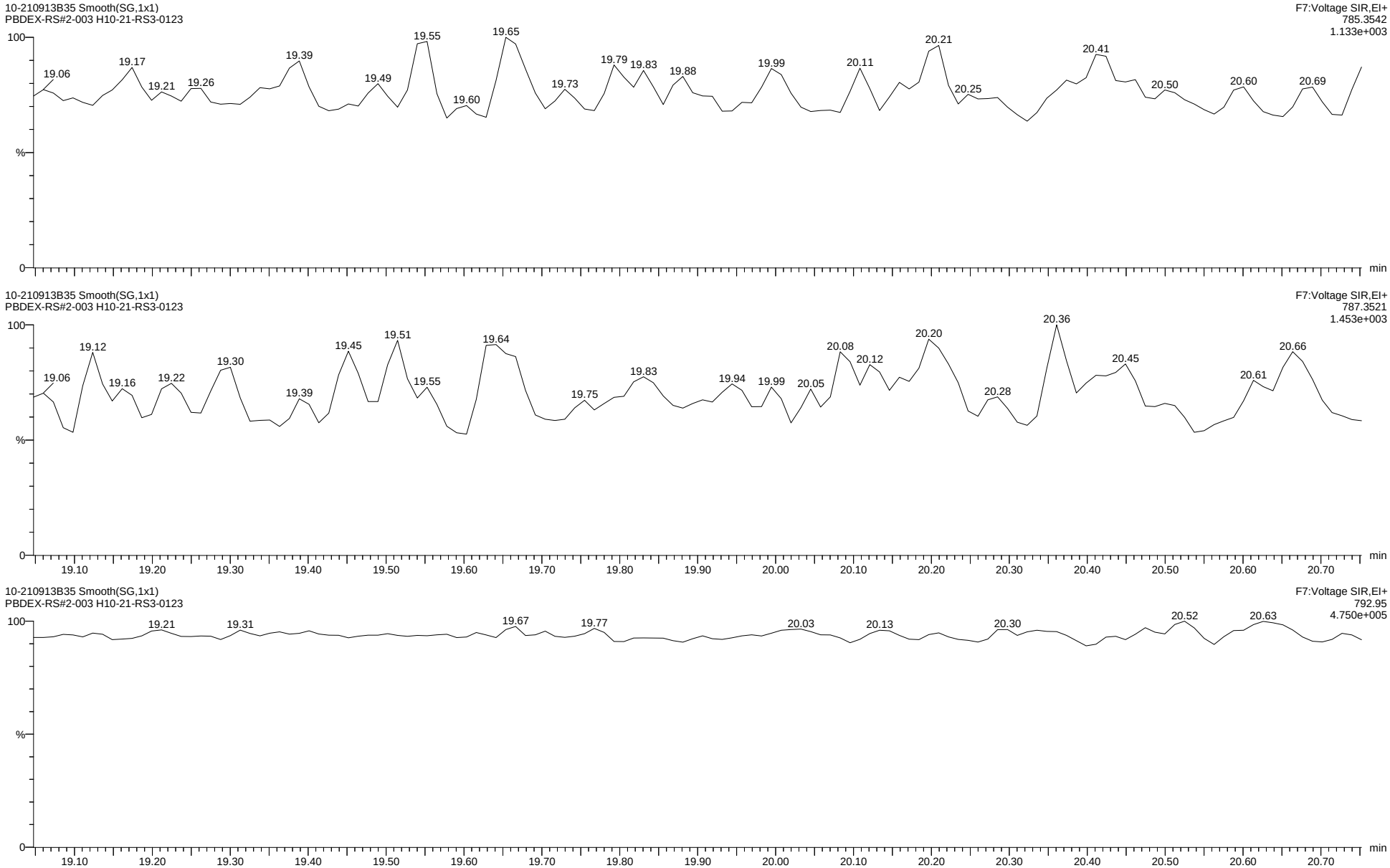

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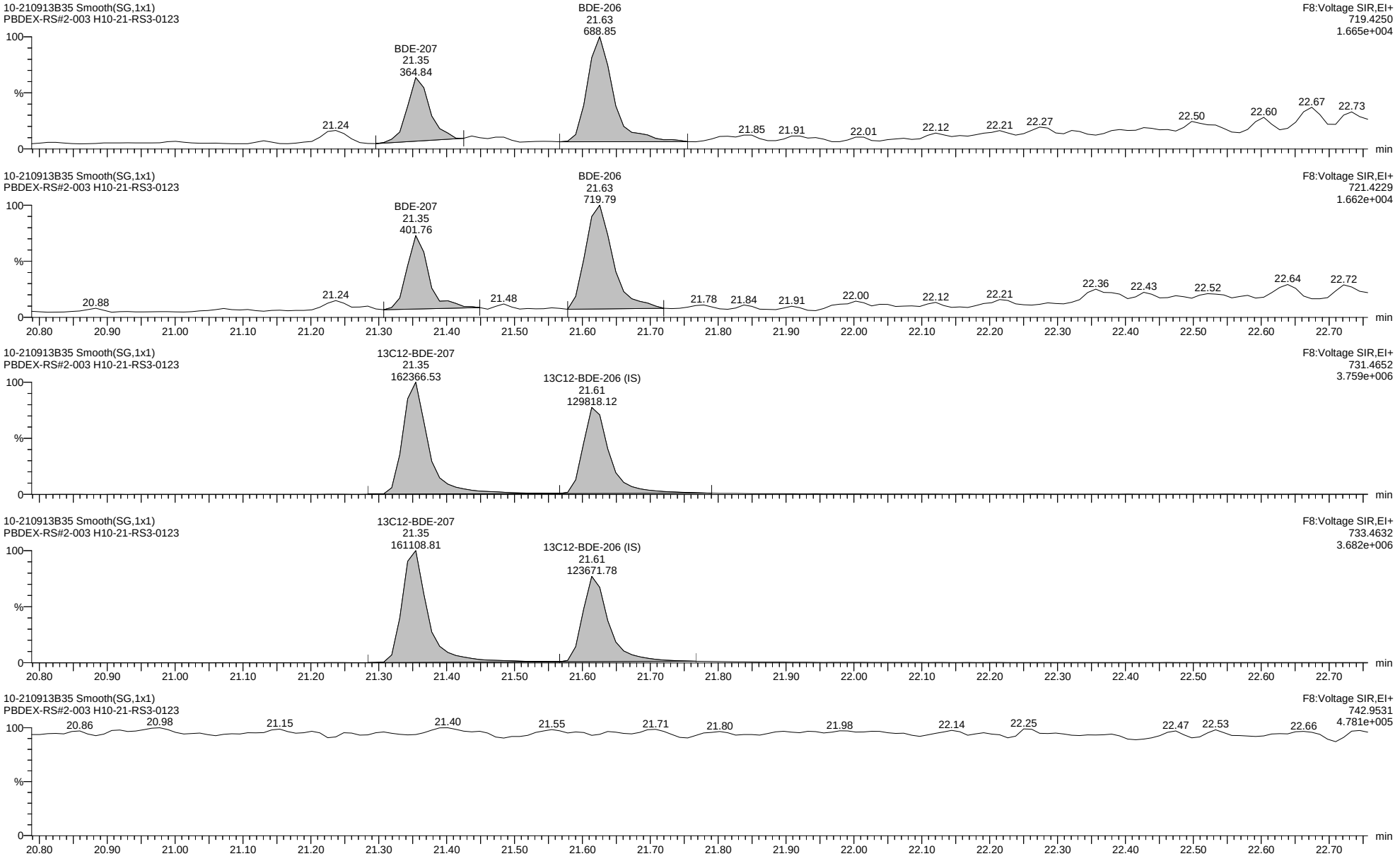

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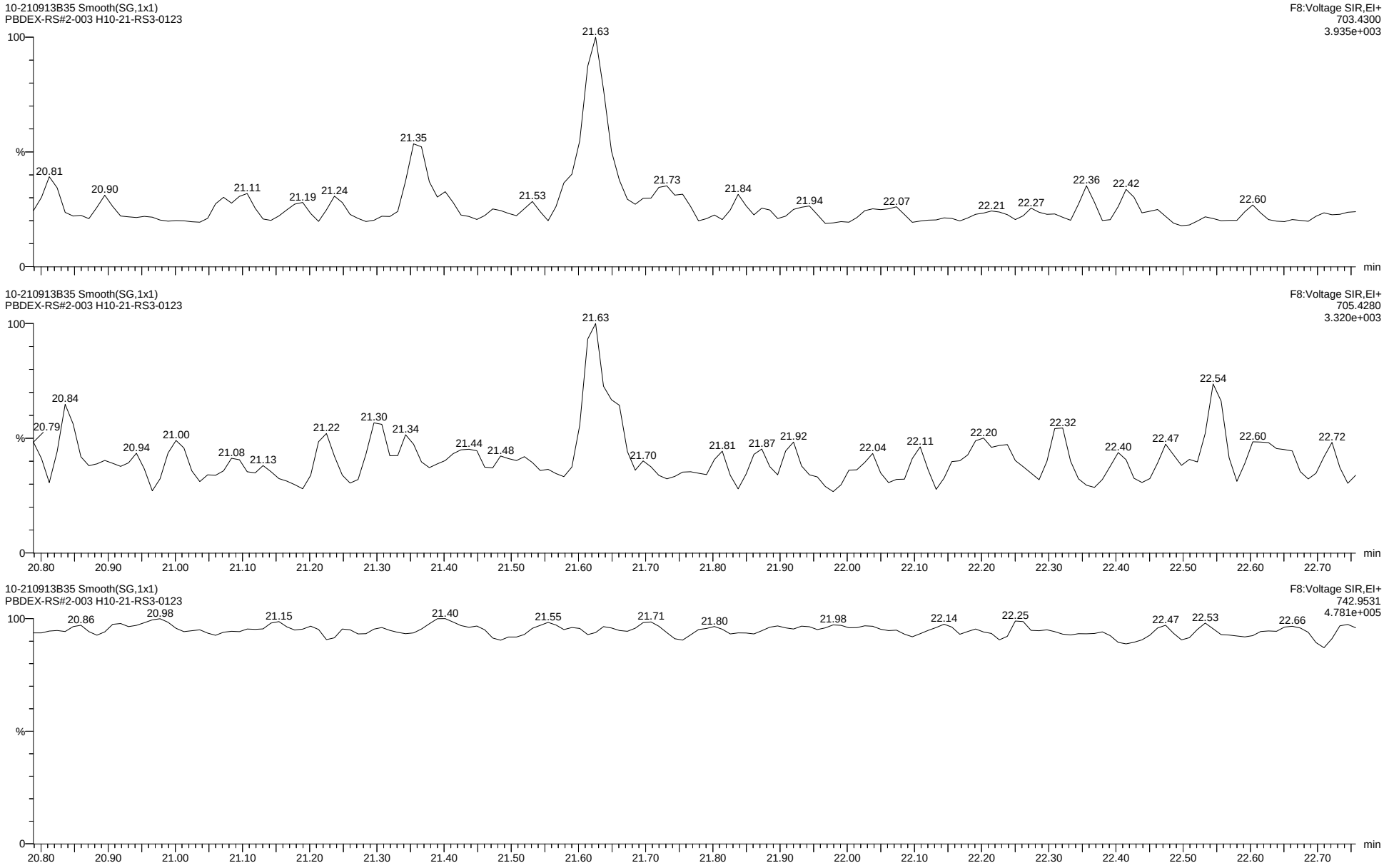

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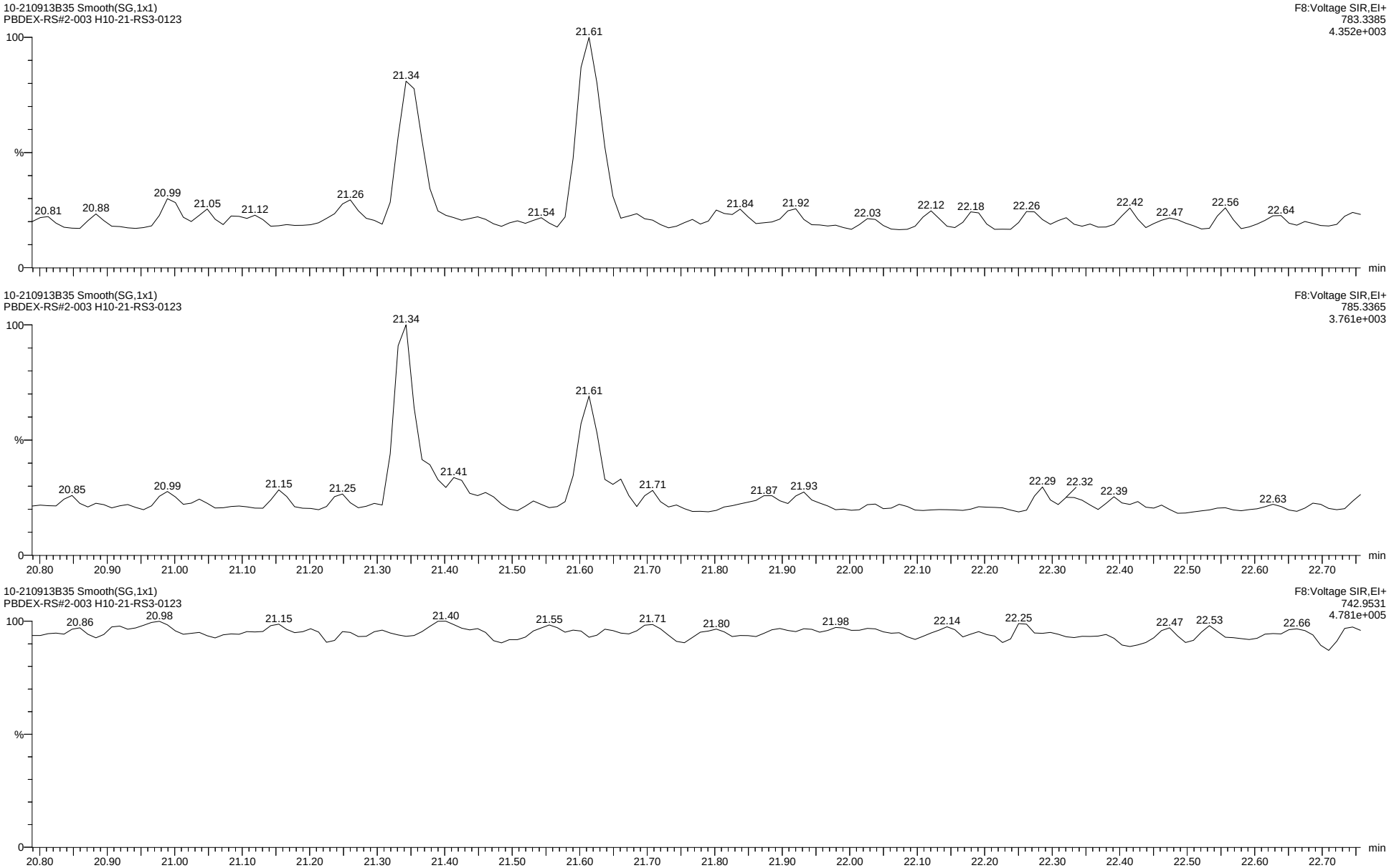
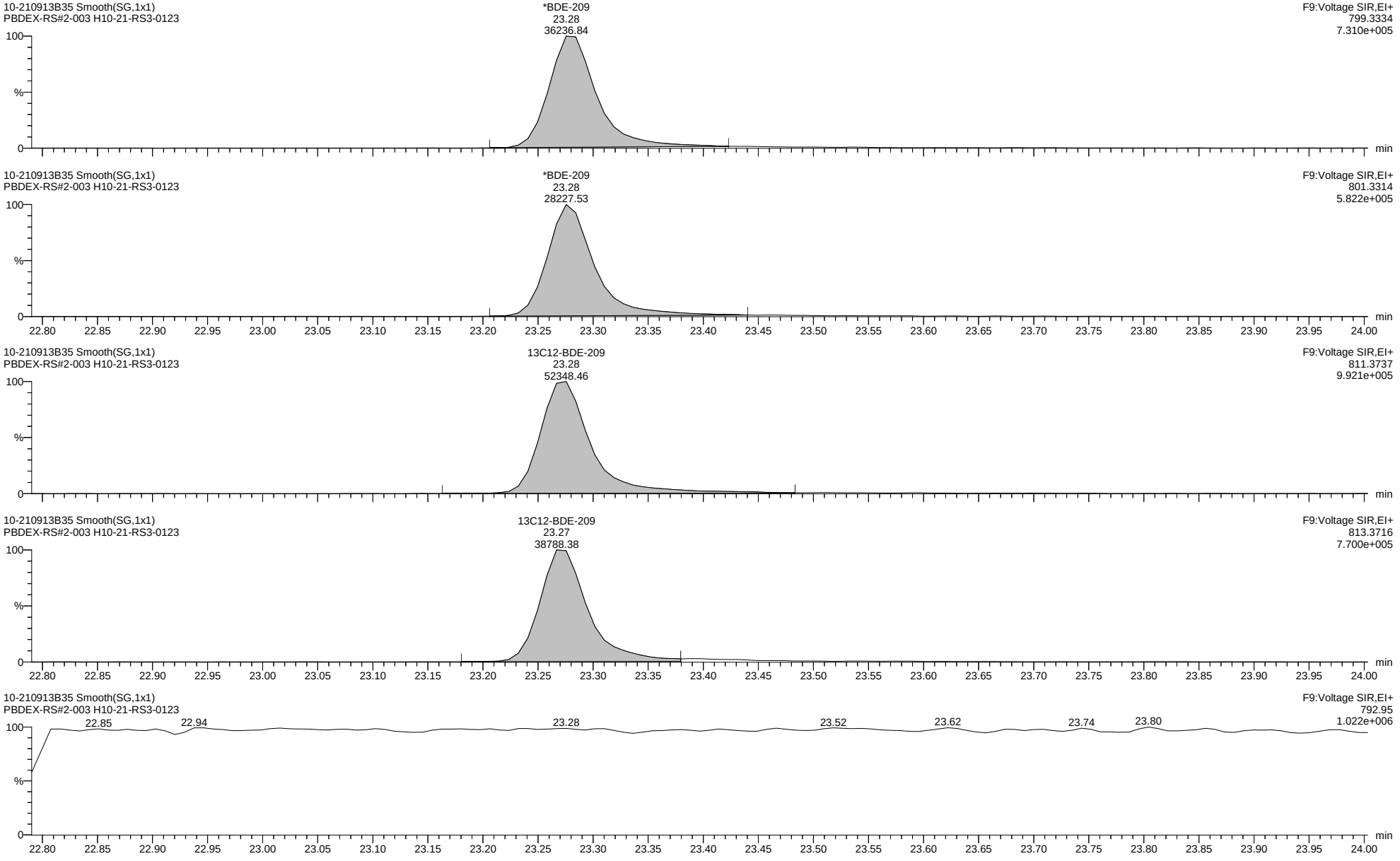


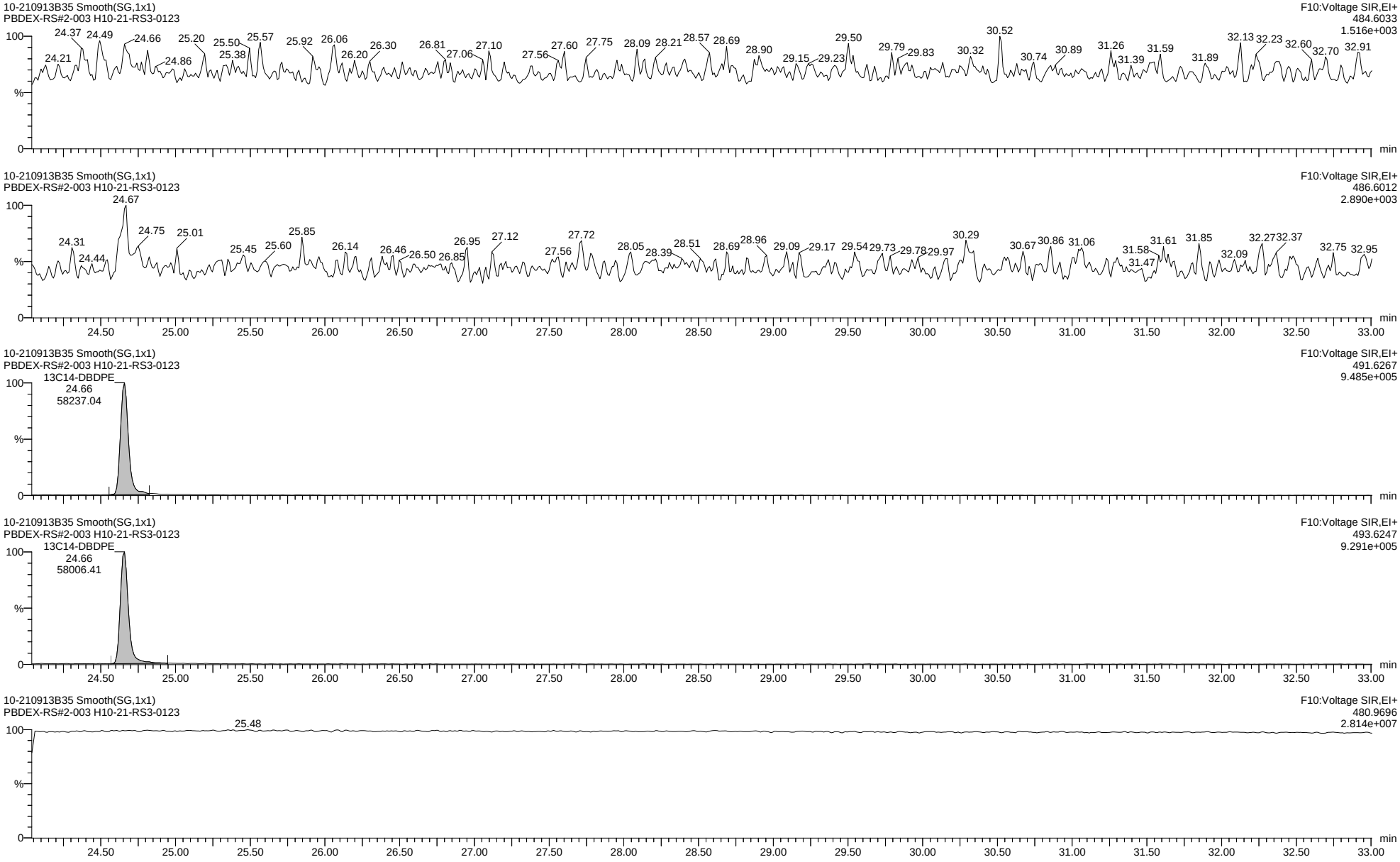
Name: 10-210913B35, Date: 14-Sep-2021, Time: 16:22:34, ID: H10-21-RS3-0123, Description: PBDEX-RS#2-003, Vial: Tray1:10



Dataset: I:\Organics Instrument\HIGHRES GCMS Completed Results Files\HR-10\2021\2109\10-210913B-Q2-PBDE.qld

Last Altered: Tuesday, September 14, 2021 17:08:57 Eastern Daylight Time
Printed: Friday, September 17, 2021 10:47:47 Eastern Daylight Time

Name: 10-210913B35, Date: 14-Sep-2021, Time: 16:22:34, ID: H10-21-RS3-0123, Description: PBDEX-RS#2-003, Vial: Tray1:10



Quantify Sample Summary Report **MassLynx MassLynx V4.1 SCN 901**

Dataset: I:\Organics Instrument\HIGHRES GCMS Completed Results Files\HR-10\2021\2109\10-210913B-Q1-PBDE.qld

Last Altered: Thursday, September 16, 2021 14:59:12 Eastern Daylight Time
Printed: Friday, September 17, 2021 10:41:58 Eastern Daylight Time

Method: C:\MassLynx\PBDE.PRO\MethDB\PBDEX-DB5-1-210913B.mdb 14 Sep 2021 11:10:04
Calibration: C:\MassLynx\PBDE.PRO\CurveDB\10-210913B-ICAL-PBDE.cdb 14 Sep 2021 11:07:06

Name: 10-210913B10, Date: 13-Sep-2021, Time: 22:26:40, ID: WG3603574-2, Description: LCS, Vial: Tray1:15

	Target Analyte	#Hom	Total Area	Ion1 Area	Ion2 Area	Ra	Ra Fail=YES	RT	RRT	RT LCL	RT UCL	Conc.	%Rec	Mod.Comment	Noise 1	Noise 2
1	*BDE-1		239301.140	88441	150861	0.59	YES	4.92	0.96	4.89	4.96	2751.7568	344.0		28846	63033
2	BDE-2		276219.188	103655	172564	0.60	YES	5.02	0.98	4.98	5.05	2161.7655	270.2		28846	63033
3	BDE-3		274693.258	76285	198408	0.38	YES	5.12	1.00	5.09	5.16	1788.9150	223.6		28846	63033
4	*BDE-10		34630.751	11168	23463	0.48	NO	6.34	0.89	6.31	6.38	392.90114	49.1		550	626
5	BDE-7		52102.902	16950	35153	0.48	NO	6.71	0.94	6.68	6.75	587.21965	73.4		550	626
6	BDE-8/BDE-11		189837.293	62312	127526	0.49	NO	6.89	0.96	6.85	6.92	1491.8352	93.2		550	626
7	BDE-12/BDE-13		405733.282	190100	215633	0.88	YES	6.98	0.98	6.95	7.02	2758.9795	172.4		550	626
8	BDE-15		138043.863	45454	92589	0.49	NO	7.15	1.00	7.11	7.18	791.47197	98.9		550	626
9	*BDE-30		36690.987	18599	18092	1.03	NO	7.84	0.90	7.80	7.87	591.42125	73.9		1687	727
10	BDE-32		67359.996	33652	33708	1.00	NO	8.28	0.96	8.25	8.32	793.22322	99.2		1687	727
11	BDE-17/BDE-25		103584.246	52275	51309	1.02	NO	8.45	0.97	8.42	8.48	1590.2718	99.4		1687	727
12	BDE-28/BDE-33		108079.316	54139	53940	1.00	NO	8.68	1.00	8.65	8.72	1593.7750	99.6		1687	727
13	BDE-35		87653.055	44232	43421	1.02	NO	8.83	1.02	8.79	8.86	936.21882	117.0		1687	727
14	BDE-37		87990.996	44619	43372	1.03	NO	9.02	1.04	8.98	9.05	939.46013	117.4		1687	727
15	*PBEB		77023.617	39154	37870	1.03	NO	9.03	0.90	8.99	9.06	913.33457	114.2		369	322
16	*PBB-52		60469.055	36921	23548	1.57	NO	9.13	0.91	9.09	9.16	709.75903	88.7		893	542
17	*HBB		56056.044	15780	40276	0.39	NO	10.01	1.00	9.98	10.04	793.33564	99.2		372	415
18	*BDE-75		43492.293	17277	26215	0.66	NO	10.07	0.95	10.04	10.10	712.29729	89.0		611	813
19	BDE-51		53150.875	21277	31874	0.67	NO	10.13	0.96	10.10	10.17	733.78882	91.7		611	813
20	BDE-49		32539.380	13049	19490	0.67	NO	10.23	0.97	10.20	10.27	705.17475	88.1		611	813
21	BDE-71		33484.114	13363	20121	0.66	NO	10.31	0.98	10.27	10.34	706.20368	88.3		611	813
22	BDE-47		45604.272	18407	27198	0.68	NO	10.57	1.00	10.53	10.60	798.90067	99.9		611	813
23	BDE-79		67348.584	26786	40563	0.66	NO	10.73	1.02	10.70	10.76	933.13481	116.6		611	813
24	BDE-66		35249.036	13603	21646	0.63	NO	10.85	1.03	10.82	10.89	831.70444	104.0		611	813
25	BDE-77		57080.658	22802	34278	0.67	NO	11.33	1.00	11.29	11.36	794.67080	99.3		611	813
26	*PBB-101		104646.680	53581	51066	1.05	NO	11.46	1.01	11.43	11.50	1220.1353	76.3		506	768
27	*BDE-100		61803.694	31296	30507	1.03	NO	12.21	1.00	12.18	12.24	1172.0736	97.7		672	746
28	BDE-119/BDE-120		65449.939	32866	32584	1.01	NO	12.37	1.01	12.34	12.40	2384.3650	99.3		672	746
29	BDE-99		44472.578	22524	21949	1.03	NO	12.71	1.00	12.67	12.74	1178.7751	98.2		672	746
30	BDE-116		16221.115	8195	8026	1.02	NO	12.87	1.01	12.83	12.90	907.54568	75.6		672	746
31	BDE-83		22467.269	11297	11170	1.01	NO	12.99	1.02	12.96	13.03	1115.0041	92.9		672	746
32	BDE-118		28929.788	14277	14653	0.97	NO	13.12	1.03	13.08	13.15	1260.1794	105.0		672	746
33	BDE-85		34935.861	17755	17181	1.03	NO	13.60	0.99	13.57	13.63	1317.3278	109.8		672	746
34	BDE-126		54727.764	27562	27166	1.01	NO	13.77	1.00	13.74	13.81	1182.0192	98.5		672	746

Quantify Sample Summary Report **MassLynx MassLynx V4.1 SCN 901**

Dataset: I:\Organics Instrument\HIGHRES GCMS Completed Results Files\HR-10\2021\2109\10-210913B-Q1-PBDE.qld

Last Altered: Thursday, September 16, 2021 14:59:12 Eastern Daylight Time
Printed: Friday, September 17, 2021 10:41:58 Eastern Daylight Time

Name: 10-210913B10, Date: 13-Sep-2021, Time: 22:26:40, ID: WG3603574-2, Description: LCS, Vial: Tray1:15

	Target Analyte	#Hom	Total Area	Ion1 Area	Ion2 Area	Ra	Ra Fail=YES	RT	RRT	RT LCL	RT UCL	Conc.	%Rec	Mod.Comment	Noise 1	Noise 2
35	BDE-105		29158.765	14857	14301	1.04	NO	13.92	1.01	13.89	13.96	1257.8138	104.8		672	746
36	*PBB-153		76439.355	44551	31888	1.40	NO	14.10	1.00	14.06	14.13	1888.7229	118.0		591	700
37	*BDE-155		89681.989	52354	37328	1.40	NO	13.76	0.97	13.73	13.80	1786.1668	111.6		851	499
38	BDE-154		75434.233	43836	31598	1.39	NO	14.15	1.00	14.11	14.18	1609.4950	100.6		851	499
39	*BDE-153		20175.048	11725	8450	1.39	NO	14.88	1.00	14.85	14.92	1518.7003	94.9		1592	1016
40	BDE-140		41464.434	24402	17062	1.43	NO	15.34	1.01	15.31	15.37	1830.8956	114.4		1592	1016
41	BDE-138/BDE-166		64072.574	37377	26696	1.40	NO	15.84	1.07	15.81	15.88	5131.8957	160.4		1592	1016
42	BDE-156		24009.992	14145	9865	1.43	NO	16.22	1.09	16.18	16.25	2974.8970	185.9		1592	1016
43	BDE-128		27394.776	16076	11319	1.42	NO	16.82	0.99	16.79	16.86	2969.8031	185.6		1592	1016
44	*BDE-184		53522.220	26819	26703	1.00	NO	16.64	0.98	16.60	16.67	1951.5077	97.6		480	601
45	BDE-183		35168.139	17732	17436	1.02	NO	17.01	1.00	16.98	17.04	1905.9050	95.3		480	601
46	BDE-191		29040.606	14853	14188	1.05	NO	17.57	1.03	17.54	17.61	2546.9694	127.3		480	601
47	BDE-181		26395.430	13071	13325	0.98	NO	18.12	1.01	18.09	18.16	2284.6013	114.2		480	601
48	BDE-190		16934.049	8371	8563	0.98	NO	18.27	1.02	18.24	18.31	2169.5078	108.5		480	601
49	*PBB-180		24867.794	12551	12316	1.02	NO	17.12	0.96	17.08	17.15	1455.7282	91.0		624	703
50	*BDE-197		32212.083	14156	18057	0.78	NO	19.49	1.00	19.46	19.52	1900.5866	95.0		1014	1142
51	BDE-203		27000.561	11943	15058	0.79	NO	19.77	1.01	19.73	19.80	2189.5002	109.5		1014	1142
52	BDE-196		30370.829	13571	16800	0.81	NO	19.91	1.02	19.87	19.94	2147.0943	107.4		1014	1142
53	*PBB-194		16003.541	8980	7024	1.28	NO	19.97	1.02	19.94	20.00	1453.5043	90.8		678	347
54	*BDE-208		67799.195	33553	34247	0.98	NO	21.23	0.99	21.19	21.26	4742.0259	118.6		1183	1120
55	BDE-207		63401.635	32166	31236	1.03	NO	21.35	1.00	21.32	21.39	3827.7371	95.7		1183	1120
56	BDE-206		57336.145	28911	28425	1.02	NO	21.61	1.01	21.58	21.65	4580.6736	114.5		1183	1120
57	*PBB-206		24922.712	12666	12257	1.03	NO	21.07	0.99	21.04	21.11	4388.4061	109.7		1171	843
58	*PBB-209		22580.898	12474	10107	1.23	NO	21.97	1.03	21.93	22.00	3478.2371	87.0		734	471
59	*BDE-209		15115.509	8679	6436	1.35	NO	23.28	1.00	23.24	23.31	3804.6983	95.1		550	331
60	*DBDPE		19418.180	9820	9598	1.02	NO	24.66	1.00	24.63	24.69	7685.2614	96.1		283	405
61	13C12-BDE-3		385586.625	189775	195812	0.97	NO	5.11	0.48	5.08	5.15	385.93949	19.3		1339	2433
62	13C12-BDE-15		411473.406	135674	275799	0.49	NO	7.14	0.67	7.11	7.17	754.98007	37.7		2942	4105
63	13C12-BDE-28		202847.156	102445	100402	1.02	NO	8.67	0.81	8.64	8.71	817.39651	40.9		1225	1616
64	13C6-HBB		134932.082	98008	36924	2.65	NO	10.00	0.93	9.96	10.03	755.37080	37.8		497	589
65	13C12-BDE-47		136032.789	81727	54306	1.50	NO	10.56	0.98	10.52	10.59	790.30172	39.5		1209	942
66	13C12-BDE-77		181453.484	110064	71389	1.54	NO	11.31	1.06	11.28	11.35	1000.5385	50.0		1209	942
67	13C12-BDE-100		138251.649	69905	68346	1.02	NO	12.20	0.81	12.16	12.23	908.66873	45.4		981	700
68	13C12-BDE-99		91584.953	45922	45663	1.01	NO	12.69	0.84	12.66	12.73	1026.5961	51.3		981	700
69	13C12-BDE-126		118235.856	60040	58196	1.03	NO	13.76	0.91	13.73	13.80	1177.8437	58.9		981	700
70	13C12-BDE-154		102459.316	59145	43314	1.37	NO	14.13	0.93	14.10	14.17	833.49404	41.7		817	481
71	13C12-BDE-153		22917.574	13531	9387	1.44	NO	14.87	0.98	14.84	14.91	551.25171	27.6		1079	693

Name: 10-210913B10, Date: 13-Sep-2021, Time: 22:26:40, ID: WG3603574-2, Description: LCS, Vial: Tray1:15

	Target Analyte	#Hom	Total Area	Ion1 Area	Ion2 Area	Ra	Ra Fail=YES	RT	RRT	RT LCL	RT UCL	Conc.	%Rec	Mod.Comment	Noise 1	Noise 2
72	13C12-BDE-183		49413.375	25002	24411	1.02	NO	17.01	0.95	16.98	17.04	680.54645	34.0		827	450
73	13C12-BDE-197		86182.082	38345	47837	0.80	NO	19.49	1.09	19.46	19.52	1538.2409	38.5		734	816
74	13C12-BDE-207		182158.094	91323	90835	1.01	NO	21.34	0.99	21.31	21.38	4423.7398	44.2		2613	1586
75	13C12-BDE-209		41145.740	23549	17596	1.34	NO	23.27	1.08	23.23	23.30	3875.7263	38.8		1187	719
76	13C14-DBDPE		56735.520	27884	28851	0.97	NO	24.65	1.14	24.61	24.68	7163.0547	35.8		637	928
77	13C12-BDE-138 (CL)		48674.842	28134	20541	1.37	NO	15.83	1.05	15.80	15.86	1390.4470	69.5		1079	693
78	13C12-BDE-79 (IS)		395314.422	239515	155799	1.54	NO	10.72	0.71	10.68	10.75	45.313987	2.3		1209	942
79	13C12-BDE-139 (IS)		97794.539	58245	39550	1.47	NO	15.14	0.00	15.11	15.17	38.805885	1.9		1079	693
80	13C12-BDE-180 (IS)		68707.254	34808	33900	1.03	NO	17.88	1.18	17.84	17.91	58.461378	2.9		827	450
81	13C12-BDE-206 (IS)		310060.485	155305	154755	1.00	NO	21.61	1.43	21.58	21.65	214.75561	2.1		2613	1586
82	Total MoF1	3		268380								6702.4373			28846	
83	Total DiF2	5		325984								6022.4075			550	
84	Total TriF3	6		247516								6444.3702			1687	
85	Total PBEBF3	1		39154								913.33457			369	
86	Total TePBBF3	1		36921								709.75903			893	
87	Total HBBF4	1		15780								793.33564			372	
88	Total TetraF4	8		146564								6215.8753			611	
89	Total PePBBF4	1		53581								1220.1353			506	
90	Total PentaF5	9		180629								11775.104			672	
91	Total PBB-153	1		44551								1888.7229			591	
92	Total HexaF5	2		96189								3395.6618			851	
93	Total HexaF6	5		103724								14426.192			1592	
94	Total HeptaF6	5		80845								10858.491			480	
95	Total PBB-180	1		12551								1455.7282			624	
96	Total OctaF7	3		39669								6237.1811			1014	
97	Total PBB-194	1		8980								1453.5043			678	
98	Total NonaF8	3		94629								13150.437			1183	
99	Total PBB-206	1		12666								4388.4061			1171	
100	Total PBB-209	1		12474								3478.2371			734	
101	Total DecaF9	1		8679								3804.6983			550	
102	Total DBDPEF10															
103	Total 13CMoF1	1		189775								385.93949			1339	
104	Total 13CDiF2	1		135674								754.98007			2942	
105	Total 13CTriF3	1		102445								817.39651			1225	
106	Total 13CHBBF4	1		98008								755.37080			497	
107	Total 13CTetraF4	3		431307								1836.1542			1209	
108	Total 13CPentaF5	3		175867								3113.1085			981	

Quantify Sample Summary Report **MassLynx MassLynx V4.1 SCN 901**

Dataset: I:\Organics Instrument\HIGHRES GCMS Completed Results Files\HR-10\2021\2109\10-210913B-Q1-PBDE.qld

Last Altered: Thursday, September 16, 2021 14:59:12 Eastern Daylight Time
Printed: Friday, September 17, 2021 10:41:58 Eastern Daylight Time

Name: 10-210913B10, Date: 13-Sep-2021, Time: 22:26:40, ID: WG3603574-2, Description: LCS, Vial: Tray1:15

	Target Analyte	#Hom	Total Area	Ion1 Area	Ion2 Area	Ra	Ra Fail=YES	RT	RRT	RT LCL	RT UCL	Conc.	%Rec	Mod.Comment	Noise 1	Noise 2
109	Total 13CHexaF5	1		59145								833.49404			817	
110	Total 13CHexaF6	3		99910								1980.5046			1079	
111	Total 13CHeptaF6	2		59810								739.00783			827	
112	Total 13COctaF7	1		38345								1538.2409			734	
113	Total 13CNonaF8	2		246628								4638.4954			2613	
114	Total 13CDecaF9	1		23549								3875.7263			1187	
115	Total 13CDBDPEF10															
116	Lockmass F1			0											279949	
117	Lockmass F2			0											546060	
118	Lockmass F3			0											322276	
119	Lockmass F4			0											64925	
120	Lockmass F5			0											76393	
121	Lockmass F6			0											25431	
122	Lockmass F7			0											15434	
123	Lockmass F8			0											15437	
124	Lockmass F9			0											25872	
125	Lockmass F10															

Quantify Sample Summary Report **MassLynx MassLynx V4.1 SCN 901**

Dataset: I:\Organics Instrument\HIGHRES GCMS Completed Results Files\HR-10\2021\2109\10-210913B-Q1-PBDE.qld

Last Altered: Thursday, September 16, 2021 14:59:12 Eastern Daylight Time
Printed: Friday, September 17, 2021 10:41:58 Eastern Daylight Time

Name: 10-210913B15, Date: 14-Sep-2021, Time: 01:20:57, ID: WG3603574-1, Description: MBLANK, Vial: Tray1:18

	Target Analyte	#Hom	Total Area	Ion1 Area	Ion2 Area	Ra	Ra Fail=YES	RT	RRT	RT LCL	RT UCL	Conc.	%Rec	Mod.Comment	Noise 1	Noise 2
1	*BDE-1														19754	33984
2	BDE-2		203355.133	130008	73347	1.77	YES	5.04	0.98	5.01	5.07	2087.9503			19754	33984
3	BDE-3		166249.985	59062	107188	0.55	YES	5.18	1.01	5.14	5.21	1420.4096			19754	33984
4	*BDE-10														361	385
5	BDE-7														361	385
6	BDE-8/BDE-11														361	385
7	BDE-12/BDE-13														361	385
8	BDE-15														361	385
9	*BDE-30														798	850
10	BDE-32														798	850
11	BDE-17/BDE-25														798	850
12	BDE-28/BDE-33														798	850
13	BDE-35														798	850
14	BDE-37														798	850
15	*PBEB														474	361
16	*PBB-52														584	365
17	*HBB		216.825	68	149	0.46	NO	10.02	1.00	9.99	10.05	4.3486644		EG210914MA	250	432
18	*BDE-75														277	423
19	BDE-51														277	423
20	BDE-49														277	423
21	BDE-71														277	423
22	BDE-47		349.650	132	217	0.61	NO	10.57	1.00	10.53	10.60	8.8595174		EG210914MA	277	423
23	BDE-79														277	423
24	BDE-66														277	423
25	BDE-77														277	423
26	*PBB-101														475	580
27	*BDE-100														290	313
28	BDE-119/BDE-120														290	313
29	BDE-99														290	313
30	BDE-116														290	313
31	BDE-83														290	313
32	BDE-118														290	313
33	BDE-85														290	313
34	BDE-126														290	313
35	BDE-105														290	313
36	*PBB-153														393	966
37	*BDE-155														600	388

Quantify Sample Summary Report **MassLynx MassLynx V4.1 SCN 901**

Dataset: I:\Organics Instrument\HIGHRES GCMS Completed Results Files\HR-10\2021\2109\10-210913B-Q1-PBDE.qld

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Name: 10-210913B15, Date: 14-Sep-2021, Time: 01:20:57, ID: WG3603574-1, Description: MBLANK, Vial: Tray1:18

	Target Analyte	#Hom	Total Area	Ion1 Area	Ion2 Area	Ra	Ra Fail=YES	RT	RRT	RT LCL	RT UCL	Conc.	%Rec	Mod.Comment	Noise 1	Noise 2
38	BDE-154														600	388
39	*BDE-153														712	337
40	BDE-140														712	337
41	BDE-138/BDE-166														712	337
42	BDE-156														712	337
43	BDE-128														712	337
44	*BDE-184														235	385
45	BDE-183														235	385
46	BDE-191														235	385
47	BDE-181														235	385
48	BDE-190														235	385
49	*PBB-180														790	308
50	*BDE-197														366	184
51	BDE-203														366	184
52	BDE-196														366	184
53	*PBB-194														110	320
54	*BDE-208		106.988	68	39	1.74	YES	21.25	1.00	21.22	21.28	12.814123		EG210914MA	186	201
55	BDE-207														186	201
56	BDE-206														186	201
57	*PBB-206														420	572
58	*PBB-209														210	115
59	*BDE-209		96.542	53	43	1.24	NO	23.28	1.00	23.25	23.32	40.795536		EG210914MA	292	156
60	*DBDPE														205	385
61	13C12-BDE-3		293908.187	143507	150401	0.95	NO	5.13	0.48	5.10	5.17	389.87113	19.5		3596	2317
62	13C12-BDE-15		308313.079	102085	206228	0.50	NO	7.14	0.67	7.11	7.17	749.71775	37.5		2209	5533
63	13C12-BDE-28		147440.399	74703	72737	1.03	NO	8.68	0.81	8.65	8.72	787.39470	39.4		1014	1655
64	13C6-HBB		95214.525	68893	26321	2.62	NO	10.01	0.93	9.98	10.04	706.41564	35.3		528	534
65	13C12-BDE-47		94049.031	57074	36975	1.54	NO	10.57	0.98	10.53	10.60	724.12874	36.2		1431	1023
66	13C12-BDE-77		116731.594	71863	44868	1.60	NO	11.33	1.06	11.29	11.36	853.03927	42.7		1431	1023
67	13C12-BDE-100		90547.234	45951	44596	1.03	NO	12.20	0.80	12.16	12.23	760.27344	38.0		742	484
68	13C12-BDE-99		59458.937	29821	29638	1.01	NO	12.71	0.84	12.67	12.74	851.43593	42.6		742	484
69	13C12-BDE-126		73575.320	37593	35982	1.04	NO	13.76	0.91	13.73	13.80	936.33228	46.8		742	484
70	13C12-BDE-154		67755.819	39434	28322	1.39	NO	14.15	0.93	14.11	14.18	704.13675	35.2		794	629
71	13C12-BDE-153		15992.438	9159	6833	1.34	NO	14.88	0.98	14.85	14.92	491.42285	24.6		1019	648
72	13C12-BDE-183		30792.908	15990	14803	1.08	NO	17.01	0.95	16.98	17.04	599.37459	30.0		575	590
73	13C12-BDE-197		52914.791	23469	29446	0.80	NO	19.49	1.09	19.46	19.52	1334.8080	33.4		465	673
74	13C12-BDE-207		106373.641	53403	52970	1.01	NO	21.35	0.99	21.32	21.39	3643.1076	36.4		1473	1278

Name: 10-210913B15, Date: 14-Sep-2021, Time: 01:20:57, ID: WG3603574-1, Description: MBLANK, Vial: Tray1:18

	Target Analyte	#Hom	Total Area	Ion1 Area	Ion2 Area	Ra	Ra Fail=YES	RT	RRT	RT LCL	RT UCL	Conc.	%Rec	Mod.Comment	Noise 1	Noise 2
75	13C12-BDE-209		24509.022	13944	10565	1.32	NO	23.27	1.08	23.23	23.30	3255.7502	32.6		760	604
76	13C14-DBDPE		27421.338	14022	13400	1.05	NO	24.65	1.14	24.61	24.68	4882.3482	24.4		642	1120
77	13C12-BDE-138 (CL)		28154.481	16585	11570	1.43	NO	15.83	1.04	15.80	15.86	1027.4407	51.4		1019	648
78	13C12-BDE-79 (IS)		298284.391	181360	116924	1.55	NO	10.73	0.71	10.70	10.76	34.191657	1.7		1431	1023
79	13C12-BDE-139 (IS)		76551.770	44815	31736	1.41	NO	15.15	0.00	15.12	15.19	30.376534	1.5		1019	648
80	13C12-BDE-180 (IS)		48614.769	24526	24088	1.02	NO	17.88	1.18	17.84	17.91	41.365158	2.1		575	590
81	13C12-BDE-206 (IS)		219861.680	110437	109425	1.01	NO	21.61	1.43	21.58	21.65	152.28167	1.5		1473	1278
82	Total MoF1	2		189070								3508.3599			19754	
83	Total DiF2			0											361	
84	Total TriF3			0											798	
85	Total PBEBF3			0											474	
86	Total TePBBF3			0											584	
87	Total HBBF4	1		68								4.3486644			250	
88	Total TetraF4	1		132								8.8595174			277	
89	Total PePBBF4			0											475	
90	Total PentaF5			0											290	
91	Total PBB-153			0											393	
92	Total HexaF5			0											600	
93	Total HexaF6			0											712	
94	Total HeptaF6			0											235	
95	Total PBB-180			0											790	
96	Total OctaF7			0											366	
97	Total PBB-194			0											110	
98	Total NonaF8	1		68								12.814123			186	
99	Total PBB-206			0											420	
100	Total PBB-209			0											210	
101	Total DecaF9	1		53								40.795536			292	
102	Total DBDPEF10															
103	Total 13CMoF1	1		143507								389.87113			3596	
104	Total 13CDiF2	1		102085								749.71775			2209	
105	Total 13CTriF3	1		74703								787.39470			1014	
106	Total 13CHBBF4	1		68893								706.41564			528	
107	Total 13CTetraF4	3		310297								1611.3597			1431	
108	Total 13CPentaF5	3		113366								2548.0416			742	
109	Total 13CHexaF5	1		39434								704.13675			794	
110	Total 13CHexaF6	3		70559								1549.2401			1019	
111	Total 13CHeptaF6	2		40517								640.73975			575	

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Name: 10-210913B15, Date: 14-Sep-2021, Time: 01:20:57, ID: WG3603574-1, Description: MBLANK, Vial: Tray1:18

	Target Analyte	#Hom	Total Area	Ion1 Area	Ion2 Area	Ra	Ra Fail=YES	RT	RRT	RT LCL	RT UCL	Conc.	%Rec	Mod.Comment	Noise 1	Noise 2
112	Total 13COctaF7	1		23469								1334.8080			465	
113	Total 13CNonaF8	2		163840								3795.3893			1473	
114	Total 13CDecaF9	1		13944								3255.7502			760	
115	Total 13CDBDPEF10															
116	Lockmass F1			0											192952	
117	Lockmass F2			0											539495	
118	Lockmass F3			0											367919	
119	Lockmass F4			0											89817	
120	Lockmass F5			0											63024	
121	Lockmass F6			0											25437	
122	Lockmass F7			0											20573	
123	Lockmass F8			0											17719	
124	Lockmass F9			0											20846	
125	Lockmass F10															

Quantify Sample Summary Report **MassLynx MassLynx V4.1 SCN 901**

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Name: 10-210913B26, Date: 14-Sep-2021, Time: 10:02:54, ID: L2625428-2 X5, Description: DIL X5, Vial: Tray1:21

	Target Analyte	#Hom	Total Area	Ion1 Area	Ion2 Area	Ra	Ra Fail=YES	RT	RRT	RT LCL	RT UCL	Conc.	%Rec	Mod.Comment	Noise 1	Noise 2
1	*BDE-1		67927.449	45776	22151	2.07	YES	4.88	0.95	4.85	4.91	4145.8826			49628	94857
2	BDE-2		192122.535	38714	153409	0.25	YES	5.03	0.98	4.99	5.06	7980.6721			49628	94857
3	BDE-3		69439.242	17479	51961	0.34	YES	5.12	1.00	5.09	5.16	2400.2314			49628	94857
4	*BDE-10														392	525
5	BDE-7														392	525
6	BDE-8/BDE-11		765.112	278	487	0.57	NO	6.90	0.96	6.87	6.94	33.298826		EG210914MB	392	525
7	BDE-12/BDE-13		723.651	257	466	0.55	NO	7.03	0.98	7.00	7.07	27.252202		EG210914MB	392	525
8	BDE-15		13879.944	4525	9355	0.48	NO	7.18	1.00	7.15	7.22	440.72810			392	525
9	*BDE-30														792	831
10	BDE-32		448.090	230	218	1.06	NO	8.32	0.96	8.28	8.35	40.056258		EG210914MA	792	831
11	BDE-17/BDE-25		38140.529	19276	18865	1.02	NO	8.47	0.97	8.44	8.51	4445.0445			792	831
12	BDE-28/BDE-33		92142.664	46102	46041	1.00	NO	8.70	1.00	8.67	8.74	10314.708		EG210914MB	792	831
13	BDE-35		2521.837	904	1617	0.56	YES	8.83	1.02	8.79	8.86	204.47447			792	831
14	BDE-37		1639.306	809	830	0.97	NO	9.05	1.04	9.02	9.08	132.86540			792	831
15	*PBEB		4583.164	2298	2285	1.01	NO	9.06	0.90	9.03	9.09	469.10056			275	315
16	*PBB-52														649	349
17	*HBB		6812.028	1992	4820	0.41	NO	10.07	1.00	10.04	10.10	832.15745			281	376
18	*BDE-75		7514.847	3163	4352	0.73	NO	10.10	0.95	10.06	10.13	692.63759			1413	2035
19	BDE-51		20791.130	7903	12889	0.61	NO	10.16	0.96	10.12	10.19	1615.3837			1413	2035
20	BDE-49		111153.145	44887	66266	0.68	NO	10.27	0.97	10.24	10.30	13556.456			1413	2035
21	BDE-71		8144.770	3217	4928	0.65	NO	10.33	0.98	10.30	10.37	966.73384			1413	2035
22	BDE-47		7108608.0...	2862809	4245799	0.67	NO	10.61	1.00	10.57	10.64	603814.64		S	1413	2035
23	BDE-79		14971.624	6338	8633	0.73	NO	10.74	1.01	10.71	10.78	1167.4056		S	1413	2035
24	BDE-66		77737.777	31583	46155	0.68	NO	10.89	1.03	10.86	10.92	10322.641		EG210914MB	1413	2035
25	BDE-77														1413	2035
26	*PBB-101		740.593	413	327	1.26	YES	11.51	1.01	11.48	11.55	48.595838			561	771
27	*BDE-100		905864.687	457116	448748	1.02	NO	12.26	1.00	12.23	12.29	121401.71			1006	1168
28	BDE-119/BDE-120		9954.961	5134	4820	1.07	NO	12.36	1.01	12.32	12.39	2599.0064			1006	1168
29	BDE-99		4067596.0...	2051952	2015644	1.02	NO	12.76	1.00	12.72	12.79	648182.09		EG210914MB	1006	1168
30	BDE-116														1006	1168
31	BDE-83														1006	1168
32	BDE-118		5016.590	2491	2526	0.99	NO	13.15	1.03	13.12	13.19	1566.0298		EG210914MB	1006	1168
33	BDE-85		100911.367	50995	49917	1.02	NO	13.65	0.99	13.62	13.68	27268.847		EG210914MB	1006	1168
34	BDE-126		708.364	362	346	1.04	NO	13.81	1.00	13.78	13.85	131.34444		EG210914MB	1006	1168
35	BDE-105														1006	1168
36	*PBB-153		8781.174	5055	3726	1.36	NO	14.15	1.00	14.11	14.18	1497.6820			375	661
37	*BDE-155		16994.186	9856	7138	1.38	NO	13.81	0.97	13.78	13.85	2336.3234			675	286

Quantify Sample Summary Report **MassLynx MassLynx V4.1 SCN 901**

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Name: 10-210913B26, Date: 14-Sep-2021, Time: 10:02:54, ID: L2625428-2 X5, Description: DIL X5, Vial: Tray1:21

	Target Analyte	#Hom	Total Area	Ion1 Area	Ion2 Area	Ra	Ra Fail=YES	RT	RRT	RT LCL	RT UCL	Conc.	%Rec	Mod.Comment	Noise 1	Noise 2
38	BDE-154		237640.289	137742	99898	1.38	NO	14.20	1.00	14.16	14.23	39562.783			675	286
39	*BDE-153		154759.563	89833	64927	1.38	NO	14.95	1.00	14.92	14.99	53053.380		EG210914MB	1046	486
40	BDE-140		4084.860	2450	1635	1.50	NO	15.40	1.01	15.36	15.43	1245.0329			1046	486
41	BDE-138/BDE-166		9426.372	5617	3810	1.47	NO	15.90	1.06	15.87	15.93	5211.5394			1046	486
42	BDE-156														1046	486
43	BDE-128														1046	486
44	*BDE-184		604.573	285	319	0.89	NO	16.72	0.98	16.69	16.75	376.18334			306	330
45	BDE-183		10260.325	5212	5048	1.03	NO	17.09	1.00	17.06	17.13	9489.1568			306	330
46	BDE-191														306	330
47	BDE-181														306	330
48	BDE-190														306	330
49	*PBB-180														536	280
50	*BDE-197		506.044	241	265	0.91	NO	19.68	1.00	19.65	19.71	3315.9452			225	129
51	BDE-203		102.043	49	53	0.91	NO	19.93	1.01	19.90	19.97	918.97913		EG210914MA	225	129
52	BDE-196		163.455	79	85	0.93	NO	20.11	1.02	20.08	20.14	1283.3435		EG210914MA	225	129
53	*PBB-194														133	140
54	*BDE-208		717.383	377	341	1.11	NO	21.32	1.00	21.29	21.35	5258.9636			922	1046
55	BDE-207		3029.928	1562	1468	1.06	NO	21.43	1.00	21.39	21.46	19172.716			922	1046
56	BDE-206		7822.673	3782	4040	0.94	NO	21.68	1.01	21.65	21.72	65503.685			922	1046
57	*PBB-206														342	587
58	*PBB-209														259	204
59	*BDE-209		947271.438	532497	414775	1.28	NO	23.40	1.00	23.36	23.43	1802466.2			442	511
60	*DBDPE		760226.313	383794	376432	1.02	NO	24.82	1.00	24.79	24.86	1172360.2			396	587
61	13C12-BDE-3		72646.641	36079	36568	0.99	NO	5.11	0.47	5.08	5.15	654.35152	32.7		1213	1898
62	13C12-BDE-15		74298.010	24205	50093	0.48	NO	7.17	0.67	7.14	7.21	1226.7871	61.3		2521	4028
63	13C12-BDE-28		26721.274	13111	13611	0.96	NO	8.69	0.81	8.66	8.73	968.99007	48.4		1060	691
64	13C6-HBB		15632.220	11492	4140	2.78	NO	10.07	0.94	10.04	10.10	787.52426	39.4		324	437
65	13C12-BDE-47		28055.098	16773	11282	1.49	NO	10.59	0.98	10.56	10.63	1466.7612	73.3		825	652
66	13C12-BDE-77		28359.049	17175	11184	1.54	NO	11.36	1.06	11.33	11.40	1407.2085	70.4		825	652
67	13C12-BDE-100		19563.623	9916	9648	1.03	NO	12.25	0.81	12.21	12.28	1478.3054	73.9		424	421
68	13C12-BDE-99		15233.635	7755	7479	1.04	NO	12.74	0.84	12.71	12.78	1963.1733	98.2		424	421
69	13C12-BDE-126		13772.437	6752	7020	0.96	NO	13.81	0.91	13.78	13.85	1577.3530	78.9		424	421
70	13C12-BDE-154		13131.243	7730	5402	1.43	NO	14.18	0.93	14.15	14.22	1228.1079	61.4		842	465
71	13C12-BDE-153		5032.347	2988	2044	1.46	NO	14.94	0.98	14.91	14.98	1391.6548	69.6		935	433
72	13C12-BDE-183		2895.542	1474	1421	1.04	NO	17.08	0.95	17.05	17.11	3368.8245	168.4		257	243
73	13C12-BDE-197		776.009	367	409	0.90	NO	19.69	1.09	19.66	19.73	1170.0634	29.3	EG210914MA	183	214
74	13C12-BDE-207		1737.956	909	829	1.10	NO	21.43	0.99	21.39	21.46	4730.1533	47.3		556	282

Quantify Sample Summary Report **MassLynx MassLynx V4.1 SCN 901**

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Name: 10-210913B26, Date: 14-Sep-2021, Time: 10:02:54, ID: L2625428-2 X5, Description: DIL X5, Vial: Tray1:21

	Target Analyte	#Hom	Total Area	Ion1 Area	Ion2 Area	Ra	Ra Fail=YES	RT	RRT	RT LCL	RT UCL	Conc.	%Rec	Mod.Comment	Noise 1	Noise 2
75	13C12-BDE-209		5442.891	3015	2428	1.24	NO	23.39	1.08	23.35	23.42	57458.356	574.6		548	547
76	13C14-DBDPE		14560.859	7596	6965	1.09	NO	24.81	1.14	24.78	24.85	206027.68	103...		825	984
77	13C12-BDE-138 (CL)		3921.829	2390	1532	1.56	NO	15.89	1.05	15.86	15.92	1288.0068	64.4		935	433
78	13C12-BDE-79 (IS)		43928.295	26792	17136	1.56	NO	10.77	0.71	10.73	10.80	5.0353999	0.3		825	652
79	13C12-BDE-139 (IS)		8506.188	5083	3423	1.48	NO	15.20	0.00	15.17	15.23	3.3753434	0.2		935	433
80	13C12-BDE-180 (IS)		813.331	411	402	1.02	NO	18.03	1.19	17.99	18.06	0.69204412	0.0		257	243
81	13C12-BDE-206 (IS)		2766.630	1292	1474	0.88	NO	21.68	1.43	21.65	21.72	1.9162368	0.0		556	282
82	Total MoF1	3		101968								14526.786			49628	
83	Total DiF2	3		5060								501.27913			392	
84	Total TriF3	5		67321								15137.149			792	
85	Total PBEBF3	1		2298								469.10056			275	
86	Total TePBBF3			0											649	
87	Total HBBF4	1		1992								832.15745			281	
88	Total TetraF4	7		2959899								632135.89			1413	
89	Total PePBBF4	1		413								48.595838			561	
90	Total PentaF5	6		2568050								801149.03			1006	
91	Total PBB-153	1		5055								1497.6820			375	
92	Total HexaF5	2		147598								41899.106			675	
93	Total HexaF6	3		97900								59509.952			1046	
94	Total HeptaF6	2		5498								9865.3401			306	
95	Total PBB-180			0											536	
96	Total OctaF7	3		369								5518.2678			225	
97	Total PBB-194			0											133	
98	Total NonaF8	3		5721								89935.365			922	
99	Total PBB-206			0											342	
100	Total PBB-209			0											259	
101	Total DecaF9	1		532497								1802466.2			442	
102	Total DBDPEF10															
103	Total 13CMoF1	1		36079								654.35152			1213	
104	Total 13CDiF2	1		24205								1226.7871			2521	
105	Total 13CTriF3	1		13111								968.99007			1060	
106	Total 13CHBBF4	1		11492								787.52426			324	
107	Total 13CTetraF4	3		60740								2879.0052			825	
108	Total 13CPentaF5	3		24423								5018.8317			424	
109	Total 13CHexaF5	1		7730								1228.1079			842	
110	Total 13CHexaF6	3		10461								2683.0369			935	
111	Total 13CHeptaF6	2		1885								3369.5166			257	

Quantify Sample Summary Report **MassLynx MassLynx V4.1 SCN 901**

Dataset: I:\Organics Instrument\HIGHRES GCMS Completed Results Files\HR-10\2021\2109\10-210913B-Q1-PBDE.qld

Last Altered: Thursday, September 16, 2021 14:59:12 Eastern Daylight Time
Printed: Friday, September 17, 2021 10:41:58 Eastern Daylight Time

Name: 10-210913B26, Date: 14-Sep-2021, Time: 10:02:54, ID: L2625428-2 X5, Description: DIL X5, Vial: Tray1:21

	Target Analyte	#Hom	Total Area	Ion1 Area	Ion2 Area	Ra	Ra Fail=YES	RT	RRT	RT LCL	RT UCL	Conc.	%Rec	Mod.Comment	Noise 1	Noise 2
112	Total 13COctaF7	1		367								1170.0634			183	
113	Total 13CNonaF8	2		2202								4732.0695			556	
114	Total 13CDecaF9	1		3015								57458.356			548	
115	Total 13CDBDPEF10															
116	Lockmass F1			0											2265047	
117	Lockmass F2			0											1021160	
118	Lockmass F3			0											479910	
119	Lockmass F4			0											116451	
120	Lockmass F5			0											87661	
121	Lockmass F6			0											26466	
122	Lockmass F7			0											8990	
123	Lockmass F8			0											10770	
124	Lockmass F9			0											13238	
125	Lockmass F10															

Quantify Audit Report MassLynx MassLynx V4.1 SCN 901

Dataset: I:\Organics Instrument\HIGHRES GCMS Completed Results Files\HR-10\2021\2109\10-210913B-Q1-PBDE.qld

Last Altered: Thursday, September 16, 2021 14:59:12 Eastern Daylight Time
Printed: Friday, September 17, 2021 10:41:58 Eastern Daylight Time

Date	Time	Event	Details	Comments
15-Sep-21	14:22:19	Method modified		
15-Sep-21	14:22:26	Process Quantify		
15-Sep-21	14:22:31	Dataset Saved	Saved to 'I:\Organics Instrument\HIGHRES GCMS Complete...	
16-Sep-21	14:43:02	Peak modified	Sample:10-210913B26, Compound:TetraF4, RT:10.730	EG210916MA
16-Sep-21	14:43:02	Peak modified	Sample:10-210913B26, Compound:TetraF4, RT:10.730	EG210916MA
16-Sep-21	14:56:30	Peak modified	Sample:10-210913B26, Compound:TetraF4, RT:10.730	S
16-Sep-21	14:56:30	Peak added	Sample:10-210913B26, Compound:TetraF4, RT:10.730	S
16-Sep-21	14:56:30	Peak modified	Sample:10-210913B26, Compound:TetraF4, RT:10.730	S
16-Sep-21	14:56:30	Peak added	Sample:10-210913B26, Compound:TetraF4, RT:10.730	S
16-Sep-21	14:58:01	Peak modified	Sample:10-210913B26, Compound:TetraF4, RT:10.730	S
16-Sep-21	14:58:01	Peak modified	Sample:10-210913B26, Compound:TetraF4, RT:10.606	S
16-Sep-21	14:58:01	Peak modified	Sample:10-210913B26, Compound:TetraF4, RT:10.730	S
16-Sep-21	14:58:01	Peak modified	Sample:10-210913B26, Compound:TetraF4, RT:10.606	S
16-Sep-21	14:58:01	Peak modified	Sample:10-210913B26, Compound:TetraF4, RT:10.730	S
16-Sep-21	14:58:32	Peak modified	Sample:10-210913B26, Compound:TetraF4, RT:10.742	S
16-Sep-21	14:58:32	Peak modified	Sample:10-210913B26, Compound:TetraF4, RT:10.730	S
16-Sep-21	14:58:32	Peak modified	Sample:10-210913B26, Compound:TetraF4, RT:10.742	S
16-Sep-21	14:58:32	Peak modified	Sample:10-210913B26, Compound:TetraF4, RT:10.730	S
16-Sep-21	14:59:02	Peak modified	Sample:10-210913B26, Compound:TetraF4, RT:10.742	EG210916MS
14-Sep-21	15:22:17	Process Extract		
14-Sep-21	15:22:18	Process Integrate		
14-Sep-21	15:22:19	Process Quantify		
14-Sep-21	15:22:20	Dataset Created		
14-Sep-21	15:29:48	Method modified		
14-Sep-21	15:29:55	Process Quantify		
14-Sep-21	15:30:55	Peak added	Sample:10-210913B24, Compound:13CNonaF8, RT:21.626	
14-Sep-21	15:30:55	Peak added	Sample:10-210913B24, Compound:13CNonaF8, RT:21.638	
14-Sep-21	15:32:09	Method modified		
14-Sep-21	15:32:15	Process Quantify		
14-Sep-21	15:32:36	Method modified		
14-Sep-21	15:32:42	Process Quantify		
14-Sep-21	15:35:44	Pre modification peak	Sample:10-210913B18, Compound:13CHeptaF6, RT:17.888	
14-Sep-21	15:35:44	Peak modified	Sample:10-210913B18, Compound:13CHeptaF6, RT:17.888	
14-Sep-21	15:35:44	Peak deleted	Sample:10-210913B18, Compound:13CHeptaF6, RT:17.970	
14-Sep-21	15:35:44	Pre modification peak	Sample:10-210913B18, Compound:13CHeptaF6, RT:18.262	
14-Sep-21	15:35:44	Peak modified	Sample:10-210913B18, Compound:13CHeptaF6, RT:18.262	
14-Sep-21	15:35:44	Peak added	Sample:10-210913B18, Compound:13CHeptaF6, RT:18.262	
14-Sep-21	15:36:21	Peak added	Sample:10-210913B26, Compound:13CHeptaF6, RT:18.017	
14-Sep-21	15:36:21	Peak added	Sample:10-210913B26, Compound:13CHeptaF6, RT:18.028	
14-Sep-21	15:36:52	Peak modified	Sample:10-210913B26, Compound:13CHeptaF6, RT:18.017	
14-Sep-21	15:36:52	Peak modified	Sample:10-210913B26, Compound:13CHeptaF6, RT:18.028	
14-Sep-21	15:37:11	Peak added	Sample:10-210913B26, Compound:13COctaF7, RT:19.654	EG210914MA
14-Sep-21	15:37:42	Method modified		
14-Sep-21	15:37:49	Process Quantify		
14-Sep-21	15:41:15	Peak added	Sample:10-210913B27, Compound:13CNonaF8, RT:21.614	EG210914MA
14-Sep-21	15:41:15	Peak added	Sample:10-210913B27, Compound:13CNonaF8, RT:21.367	EG210914MA
14-Sep-21	15:41:15	Peak added	Sample:10-210913B27, Compound:13CNonaF8, RT:21.614	EG210914MA
14-Sep-21	15:41:15	Peak added	Sample:10-210913B27, Compound:13CNonaF8, RT:21.343	EG210914MA
14-Sep-21	15:41:52	Peak modified	Sample:10-210913B27, Compound:13CNonaF8, RT:21.367	EG210914MA
14-Sep-21	15:41:52	Peak modified	Sample:10-210913B27, Compound:13CNonaF8, RT:21.614	EG210914MA
14-Sep-21	15:41:52	Peak modified	Sample:10-210913B27, Compound:13CNonaF8, RT:21.614	EG210914MA
14-Sep-21	15:42:26	Method modified		
14-Sep-21	15:42:33	Process Quantify		

Date	Time	Event	Details	Comments
14-Sep-21	15:43:09	Pre modification peak	Sample:10-210913B27, Compound:13CTetraF4, RT:10.581	
14-Sep-21	15:43:09	Peak modified	Sample:10-210913B27, Compound:13CTetraF4, RT:10.581	EG210914MB
14-Sep-21	15:43:29	Pre modification peak	Sample:10-210913B27, Compound:13CHexaF5, RT:14.172	
14-Sep-21	15:43:29	Peak modified	Sample:10-210913B27, Compound:13CHexaF5, RT:14.172	EG210914MB
14-Sep-21	15:43:53	Pre modification peak	Sample:10-210913B27, Compound:13CHexaF6, RT:14.895	
14-Sep-21	15:43:53	Peak modified	Sample:10-210913B27, Compound:13CHexaF6, RT:14.895	EG210914MB
14-Sep-21	15:43:53	Pre modification peak	Sample:10-210913B27, Compound:13CHexaF6, RT:15.164	
14-Sep-21	15:43:53	Peak modified	Sample:10-210913B27, Compound:13CHexaF6, RT:15.164	EG210914MB
14-Sep-21	15:44:25	Pre modification peak	Sample:10-210913B27, Compound:13CHeptaF6, RT:17.888	
14-Sep-21	15:44:25	Peak modified	Sample:10-210913B27, Compound:13CHeptaF6, RT:17.888	EG210914MB
14-Sep-21	15:44:45	Pre modification peak	Sample:10-210913B27, Compound:13CHexaF6, RT:15.842	
14-Sep-21	15:44:45	Peak modified	Sample:10-210913B27, Compound:13CHexaF6, RT:15.842	EG210914MB
14-Sep-21	15:46:01	Pre modification peak	Sample:10-210913B28, Compound:13CDBDPEF10, RT:24.669	
14-Sep-21	15:46:01	Peak modified	Sample:10-210913B28, Compound:13CDBDPEF10, RT:24.669	EG210914MB
14-Sep-21	15:46:53	Peak added	Sample:10-210913B32, Compound:13CDecaF9, RT:23.276	EG210914MA
14-Sep-21	15:46:53	Peak added	Sample:10-210913B32, Compound:13CDecaF9, RT:23.267	EG210914MA
14-Sep-21	15:54:07	Dataset Saved	Saved to 'I:\Organics Instrument\HIGHRES GCMS Complete...	
14-Sep-21	15:54:47	Pre modification peak	Sample:10-210913B32, Compound:13CPentaF5, RT:12.693	
14-Sep-21	15:54:47	Peak modified	Sample:10-210913B32, Compound:13CPentaF5, RT:12.693	EG210914MB
14-Sep-21	15:55:17	Pre modification peak	Sample:10-210913B32, Compound:13CPentaF5, RT:13.750	
14-Sep-21	15:55:17	Peak modified	Sample:10-210913B32, Compound:13CPentaF5, RT:13.750	EG210914MB
14-Sep-21	15:55:17	Pre modification peak	Sample:10-210913B32, Compound:13CPentaF5, RT:13.762	
14-Sep-21	15:55:17	Peak modified	Sample:10-210913B32, Compound:13CPentaF5, RT:13.762	EG210914MB
14-Sep-21	15:55:32	Pre modification peak	Sample:10-210913B32, Compound:13CHexaF6, RT:14.872	
14-Sep-21	15:55:32	Peak modified	Sample:10-210913B32, Compound:13CHexaF6, RT:14.872	EG210914MB
14-Sep-21	15:57:20	Method modified		
14-Sep-21	15:57:27	Process Quantify		
14-Sep-21	15:58:47	Method modified		
14-Sep-21	15:58:53	Process Quantify		
14-Sep-21	15:59:47	Method modified		
14-Sep-21	15:59:54	Process Quantify		
14-Sep-21	16:01:18	Method modified		
14-Sep-21	16:01:26	Process Quantify		
14-Sep-21	16:03:11	Peak deleted	Sample:10-210913B18, Compound:13CDiF2, RT:7.026	
14-Sep-21	16:03:11	Peak deleted	Sample:10-210913B18, Compound:13CDiF2, RT:7.026	
14-Sep-21	16:04:26	Peak added	Sample:10-210913B25, Compound:DiF2, RT:7.182	EG210914MA
14-Sep-21	16:04:26	Peak added	Sample:10-210913B25, Compound:DiF2, RT:7.182	EG210914MA
14-Sep-21	16:04:26	Peak added	Sample:10-210913B25, Compound:DiF2, RT:6.905	EG210914MA
14-Sep-21	16:04:58	Peak added	Sample:10-210913B25, Compound:DiF2, RT:7.035	EG210914MA
14-Sep-21	16:04:58	Peak added	Sample:10-210913B25, Compound:DiF2, RT:7.035	EG210914MA
14-Sep-21	16:06:05	Pre modification peak	Sample:10-210913B26, Compound:DiF2, RT:7.026	
14-Sep-21	16:06:05	Peak modified	Sample:10-210913B26, Compound:DiF2, RT:7.026	EG210914MB
14-Sep-21	16:06:05	Pre modification peak	Sample:10-210913B26, Compound:DiF2, RT:6.905	
14-Sep-21	16:06:05	Peak modified	Sample:10-210913B26, Compound:DiF2, RT:6.905	EG210914MB
14-Sep-21	16:06:05	Peak added	Sample:10-210913B26, Compound:DiF2, RT:7.035	EG210914MB
14-Sep-21	16:06:19	Peak added	Sample:10-210913B26, Compound:DiF2, RT:6.723	EG210914MA
14-Sep-21	16:06:35	Peak added	Sample:10-210913B27, Compound:DiF2, RT:7.173	EG210914MA
14-Sep-21	16:06:35	Peak added	Sample:10-210913B27, Compound:DiF2, RT:7.173	EG210914MA
14-Sep-21	16:07:10	Peak added	Sample:10-210913B28, Compound:DiF2, RT:7.026	EG210914MA
14-Sep-21	16:07:10	Peak added	Sample:10-210913B28, Compound:DiF2, RT:6.896	EG210914MA
14-Sep-21	16:07:10	Peak added	Sample:10-210913B28, Compound:DiF2, RT:7.026	EG210914MA
14-Sep-21	16:07:10	Peak added	Sample:10-210913B28, Compound:DiF2, RT:6.905	EG210914MA
14-Sep-21	16:07:10	Peak added	Sample:10-210913B28, Compound:DiF2, RT:6.714	EG210914MA

Quantify Audit Report MassLynx MassLynx V4.1 SCN 901

Dataset: I:\Organics Instrument\HIGHRES GCMS Completed Results Files\HR-10\2021\2109\10-210913B-Q1-PBDE.qld

Last Altered: Thursday, September 16, 2021 14:59:12 Eastern Daylight Time
Printed: Friday, September 17, 2021 10:41:58 Eastern Daylight Time

Date	Time	Event	Details	Comments
14-Sep-21	16:07:44	Method modified		
14-Sep-21	16:07:51	Process Quantify		
14-Sep-21	16:09:00	Pre modification peak	Sample:10-210913B28, Compound:TriF3, RT:8.472	
14-Sep-21	16:09:00	Peak modified	Sample:10-210913B28, Compound:TriF3, RT:8.472	EG210914MB
14-Sep-21	16:09:00	Pre modification peak	Sample:10-210913B28, Compound:TriF3, RT:8.705	
14-Sep-21	16:09:00	Peak modified	Sample:10-210913B28, Compound:TriF3, RT:8.705	EG210914MB
14-Sep-21	16:09:00	Pre modification peak	Sample:10-210913B28, Compound:TriF3, RT:8.472	
14-Sep-21	16:09:00	Peak modified	Sample:10-210913B28, Compound:TriF3, RT:8.472	EG210914MB
14-Sep-21	16:09:31	Peak added	Sample:10-210913B28, Compound:TriF3, RT:9.038	EG210914MA
14-Sep-21	16:09:31	Peak added	Sample:10-210913B28, Compound:TriF3, RT:9.038	EG210914MA
14-Sep-21	16:10:01	Pre modification peak	Sample:10-210913B28, Compound:TriF3, RT:8.927	
14-Sep-21	16:10:01	Peak modified	Sample:10-210913B28, Compound:TriF3, RT:8.927	EG210914MB
14-Sep-21	16:10:01	Pre modification peak	Sample:10-210913B28, Compound:TriF3, RT:8.938	
14-Sep-21	16:10:01	Peak modified	Sample:10-210913B28, Compound:TriF3, RT:8.938	EG210914MB
14-Sep-21	16:10:22	Peak added	Sample:10-210913B27, Compound:TriF3, RT:8.483	EG210914MA
14-Sep-21	16:10:22	Peak added	Sample:10-210913B27, Compound:TriF3, RT:8.505	EG210914MA
14-Sep-21	16:10:45	Peak modified	Sample:10-210913B27, Compound:TriF3, RT:8.483	EG210914MA
14-Sep-21	16:10:45	Peak modified	Sample:10-210913B27, Compound:TriF3, RT:8.505	EG210914MA
14-Sep-21	16:11:20	Pre modification peak	Sample:10-210913B26, Compound:TriF3, RT:8.705	
14-Sep-21	16:11:20	Peak modified	Sample:10-210913B26, Compound:TriF3, RT:8.705	EG210914MB
14-Sep-21	16:11:20	Pre modification peak	Sample:10-210913B26, Compound:TriF3, RT:8.705	
14-Sep-21	16:11:20	Peak modified	Sample:10-210913B26, Compound:TriF3, RT:8.705	EG210914MB
14-Sep-21	16:12:41	Pre modification peak	Sample:10-210913B26, Compound:TriF3, RT:8.250	
14-Sep-21	16:12:41	Peak modified	Sample:10-210913B26, Compound:TriF3, RT:8.250	EG210914MA
14-Sep-21	16:12:41	Peak added	Sample:10-210913B26, Compound:TriF3, RT:8.316	EG210914MA
14-Sep-21	16:12:41	Peak added	Sample:10-210913B26, Compound:TriF3, RT:8.316	EG210914MA
14-Sep-21	16:12:41	Peak added	Sample:10-210913B26, Compound:TriF3, RT:8.250	EG210914MA
14-Sep-21	16:12:58	Peak added	Sample:10-210913B25, Compound:TriF3, RT:8.538	EG210914MA
14-Sep-21	16:12:58	Peak added	Sample:10-210913B25, Compound:TriF3, RT:8.538	EG210914MA
14-Sep-21	16:13:47	Peak added	Sample:10-210913B17, Compound:TriF3, RT:7.972	EG210914MA
14-Sep-21	16:13:47	Peak added	Sample:10-210913B17, Compound:TriF3, RT:7.716	EG210914MA
14-Sep-21	16:14:01	Peak added	Sample:10-210913B17, Compound:TriF3, RT:9.005	EG210914MA
14-Sep-21	16:15:18	Peak deleted	Sample:10-210913B25, Compound:13CHBBF4, RT:10.655	EG210914MB
14-Sep-21	16:15:18	Pre modification peak	Sample:10-210913B25, Compound:13CHBBF4, RT:10.407	
14-Sep-21	16:15:18	Peak modified	Sample:10-210913B25, Compound:13CHBBF4, RT:10.407	EG210914MB
14-Sep-21	16:15:18	Pre modification peak	Sample:10-210913B25, Compound:13CHBBF4, RT:10.680	
14-Sep-21	16:15:18	Peak modified	Sample:10-210913B25, Compound:13CHBBF4, RT:10.680	EG210914MB
14-Sep-21	16:15:18	Pre modification peak	Sample:10-210913B25, Compound:13CHBBF4, RT:10.394	
14-Sep-21	16:15:18	Peak modified	Sample:10-210913B25, Compound:13CHBBF4, RT:10.394	EG210914MB
14-Sep-21	16:15:44	Method modified		
14-Sep-21	16:15:51	Process Quantify		
14-Sep-21	16:16:39	Peak added	Sample:10-210913B28, Compound:HBBF4, RT:10.146	EG210914MA
14-Sep-21	16:17:16	Peak added	Sample:10-210913B17, Compound:HBBF4, RT:10.009	EG210914MA
14-Sep-21	16:17:25	Peak added	Sample:10-210913B16, Compound:HBBF4, RT:10.009	EG210914MA
14-Sep-21	16:17:39	Peak modified	Sample:10-210913B16, Compound:HBBF4, RT:10.009	EG210914MA
14-Sep-21	16:17:59	Peak added	Sample:10-210913B15, Compound:HBBF4, RT:10.009	EG210914MA
14-Sep-21	16:17:59	Peak added	Sample:10-210913B15, Compound:HBBF4, RT:10.021	EG210914MA
14-Sep-21	16:18:10	Peak modified	Sample:10-210913B15, Compound:HBBF4, RT:10.021	EG210914MA
14-Sep-21	16:18:27	Peak added	Sample:10-210913B14, Compound:HBBF4, RT:10.009	EG210914MA
14-Sep-21	16:18:27	Peak added	Sample:10-210913B14, Compound:HBBF4, RT:10.021	EG210914MA
14-Sep-21	16:18:31	Dataset Saved	Saved to 'I:\Organics Instrument\HIGHRES GCMS Complete...	
14-Sep-21	16:19:10	Pre modification peak	Sample:10-210913B15, Compound:TetraF4, RT:10.568	
14-Sep-21	16:19:10	Peak modified	Sample:10-210913B15, Compound:TetraF4, RT:10.568	EG210914MA

Date	Time	Event	Details	Comments
14-Sep-21	16:19:10	Peak added	Sample:10-210913B15, Compound:TetraF4, RT:10.568	EG210914MA
14-Sep-21	16:19:28	Pre modification peak	Sample:10-210913B16, Compound:TetraF4, RT:10.568	
14-Sep-21	16:19:28	Peak modified	Sample:10-210913B16, Compound:TetraF4, RT:10.568	EG210914MB
14-Sep-21	16:19:28	Pre modification peak	Sample:10-210913B16, Compound:TetraF4, RT:10.568	
14-Sep-21	16:19:28	Peak modified	Sample:10-210913B16, Compound:TetraF4, RT:10.568	EG210914MB
14-Sep-21	16:21:26	Pre modification peak	Sample:10-210913B17, Compound:TetraF4, RT:10.556	
14-Sep-21	16:21:26	Peak modified	Sample:10-210913B17, Compound:TetraF4, RT:10.556	EG210914MB
14-Sep-21	16:21:26	Pre modification peak	Sample:10-210913B17, Compound:TetraF4, RT:10.680	
14-Sep-21	16:21:26	Peak modified	Sample:10-210913B17, Compound:TetraF4, RT:10.680	EG210914MB
14-Sep-21	16:21:26	Pre modification peak	Sample:10-210913B17, Compound:TetraF4, RT:10.556	
14-Sep-21	16:21:26	Peak modified	Sample:10-210913B17, Compound:TetraF4, RT:10.556	EG210914MB
14-Sep-21	16:21:26	Pre modification peak	Sample:10-210913B17, Compound:TetraF4, RT:10.680	
14-Sep-21	16:21:26	Peak modified	Sample:10-210913B17, Compound:TetraF4, RT:10.680	EG210914MB
14-Sep-21	16:22:06	Peak modified	Sample:10-210913B17, Compound:TetraF4, RT:10.693	
14-Sep-21	16:22:06	Peak modified	Sample:10-210913B17, Compound:TetraF4, RT:10.693	
14-Sep-21	16:22:37	Pre modification peak	Sample:10-210913B17, Compound:TetraF4, RT:10.059	
14-Sep-21	16:22:37	Peak modified	Sample:10-210913B17, Compound:TetraF4, RT:10.059	EG210914MB
14-Sep-21	16:22:37	Pre modification peak	Sample:10-210913B17, Compound:TetraF4, RT:10.121	
14-Sep-21	16:22:37	Peak modified	Sample:10-210913B17, Compound:TetraF4, RT:10.121	EG210914MB
14-Sep-21	16:23:24	Pre modification peak	Sample:10-210913B18, Compound:13CTetraF4, RT:10.891	
14-Sep-21	16:23:24	Peak modified	Sample:10-210913B18, Compound:13CTetraF4, RT:10.891	
14-Sep-21	16:23:24	Pre modification peak	Sample:10-210913B18, Compound:13CTetraF4, RT:10.953	
14-Sep-21	16:23:24	Peak modified	Sample:10-210913B18, Compound:13CTetraF4, RT:10.953	
14-Sep-21	16:23:24	Pre modification peak	Sample:10-210913B18, Compound:13CTetraF4, RT:10.891	
14-Sep-21	16:23:24	Peak modified	Sample:10-210913B18, Compound:13CTetraF4, RT:10.891	
14-Sep-21	16:23:24	Pre modification peak	Sample:10-210913B18, Compound:13CTetraF4, RT:10.953	
14-Sep-21	16:23:24	Peak modified	Sample:10-210913B18, Compound:13CTetraF4, RT:10.953	
14-Sep-21	16:23:41	Peak deleted	Sample:10-210913B23, Compound:13CTetraF4, RT:10.655	
14-Sep-21	16:24:29	Pre modification peak	Sample:10-210913B24, Compound:TetraF4, RT:10.233	
14-Sep-21	16:24:29	Peak modified	Sample:10-210913B24, Compound:TetraF4, RT:10.233	EG210914MB
14-Sep-21	16:24:29	Pre modification peak	Sample:10-210913B24, Compound:TetraF4, RT:10.332	
14-Sep-21	16:24:29	Peak modified	Sample:10-210913B24, Compound:TetraF4, RT:10.332	EG210914MB
14-Sep-21	16:24:29	Peak added	Sample:10-210913B24, Compound:TetraF4, RT:10.394	EG210914MB
14-Sep-21	16:24:58	Pre modification peak	Sample:10-210913B24, Compound:TetraF4, RT:10.233	
14-Sep-21	16:24:58	Peak modified	Sample:10-210913B24, Compound:TetraF4, RT:10.233	EG210914MS
14-Sep-21	16:24:58	Peak modified	Sample:10-210913B24, Compound:TetraF4, RT:10.332	EG210914MS
14-Sep-21	16:24:58	Peak modified	Sample:10-210913B24, Compound:TetraF4, RT:10.394	EG210914MS
14-Sep-21	16:25:34	Pre modification peak	Sample:10-210913B25, Compound:TetraF4, RT:10.295	
14-Sep-21	16:25:34	Peak modified	Sample:10-210913B25, Compound:TetraF4, RT:10.295	EG210914MB
14-Sep-21	16:25:34	Pre modification peak	Sample:10-210913B25, Compound:TetraF4, RT:10.295	
14-Sep-21	16:25:34	Peak modified	Sample:10-210913B25, Compound:TetraF4, RT:10.295	EG210914MB
14-Sep-21	16:25:50	Peak modified	Sample:10-210913B25, Compound:TetraF4, RT:10.295	EG210914MB
14-Sep-21	16:27:45	Pre modification peak	Sample:10-210913B26, Compound:TetraF4, RT:10.606	
14-Sep-21	16:27:45	Peak modified	Sample:10-210913B26, Compound:TetraF4, RT:10.606	EG210914MB
14-Sep-21	16:27:45	Pre modification peak	Sample:10-210913B26, Compound:TetraF4, RT:10.606	
14-Sep-21	16:27:45	Peak modified	Sample:10-210913B26, Compound:TetraF4, RT:10.606	EG210914MB
14-Sep-21	16:29:12	Peak deleted	Sample:10-210913B26, Compound:TetraF4, RT:10.730	EG210914MB
14-Sep-21	16:29:12	Peak deleted	Sample:10-210913B26, Compound:TetraF4, RT:10.730	EG210914MB
14-Sep-21	16:29:12	Pre modification peak	Sample:10-210913B26, Compound:TetraF4, RT:10.891	
14-Sep-21	16:29:12	Peak modified	Sample:10-210913B26, Compound:TetraF4, RT:10.891	EG210914MB
14-Sep-21	16:29:51	Peak added	Sample:10-210913B27, Compound:TetraF4, RT:10.245	EG210914MA
14-Sep-21	16:29:51	Peak added	Sample:10-210913B27, Compound:TetraF4, RT:10.245	EG210914MA
14-Sep-21	16:30:04	Pre modification peak	Sample:10-210913B27, Compound:TetraF4, RT:10.581	

Date	Time	Event	Details	Comments
14-Sep-21	16:30:04	Peak modified	Sample:10-210913B27, Compound:TetraF4, RT:10.581	EG210914MB
14-Sep-21	16:30:47	Pre modification peak	Sample:10-210913B28, Compound:TetraF4, RT:10.245	
14-Sep-21	16:30:47	Peak modified	Sample:10-210913B28, Compound:TetraF4, RT:10.245	EG210914MB
14-Sep-21	16:30:47	Pre modification peak	Sample:10-210913B28, Compound:TetraF4, RT:10.581	
14-Sep-21	16:30:47	Peak modified	Sample:10-210913B28, Compound:TetraF4, RT:10.581	EG210914MB
14-Sep-21	16:30:47	Pre modification peak	Sample:10-210913B28, Compound:TetraF4, RT:10.245	
14-Sep-21	16:30:47	Peak modified	Sample:10-210913B28, Compound:TetraF4, RT:10.245	EG210914MB
14-Sep-21	16:30:47	Pre modification peak	Sample:10-210913B28, Compound:TetraF4, RT:10.581	
14-Sep-21	16:30:47	Peak modified	Sample:10-210913B28, Compound:TetraF4, RT:10.581	EG210914MB
14-Sep-21	16:30:47	Pre modification peak	Sample:10-210913B28, Compound:TetraF4, RT:10.866	
14-Sep-21	16:30:47	Peak modified	Sample:10-210913B28, Compound:TetraF4, RT:10.866	EG210914MB
14-Sep-21	16:31:38	Peak modified	Sample:10-210913B28, Compound:TetraF4, RT:10.245	EG210914MA
14-Sep-21	16:31:38	Peak added	Sample:10-210913B28, Compound:TetraF4, RT:10.307	EG210914MA
14-Sep-21	16:31:38	Peak added	Sample:10-210913B28, Compound:TetraF4, RT:10.158	EG210914MA
14-Sep-21	16:31:38	Peak added	Sample:10-210913B28, Compound:TetraF4, RT:10.320	EG210914MA
14-Sep-21	16:31:38	Peak added	Sample:10-210913B28, Compound:TetraF4, RT:10.158	EG210914MA
14-Sep-21	16:32:18	Peak added	Sample:10-210913B32, Compound:TetraF4, RT:10.556	EG210914MA
14-Sep-21	16:32:18	Peak added	Sample:10-210913B32, Compound:TetraF4, RT:10.556	EG210914MA
14-Sep-21	16:32:34	Peak modified	Sample:10-210913B32, Compound:TetraF4, RT:10.556	EG210914MA
14-Sep-21	16:32:50	Peak modified	Sample:10-210913B32, Compound:TetraF4, RT:10.556	EG210914MA
14-Sep-21	16:32:59	Dataset Saved	Saved to 'I:\Organics Instrument\HIGHRES GCMS Complete...	
14-Sep-21	16:33:57	Peak added	Sample:10-210913B14, Compound:PentaF5, RT:12.196	EG210914MA
14-Sep-21	16:33:57	Peak added	Sample:10-210913B14, Compound:PentaF5, RT:12.209	EG210914MA
14-Sep-21	16:34:16	Peak added	Sample:10-210913B16, Compound:PentaF5, RT:12.184	EG210914MA
14-Sep-21	16:34:16	Peak added	Sample:10-210913B16, Compound:PentaF5, RT:12.706	EG210914MA
14-Sep-21	16:34:16	Peak added	Sample:10-210913B16, Compound:PentaF5, RT:12.196	EG210914MA
14-Sep-21	16:34:35	Pre modification peak	Sample:10-210913B16, Compound:PentaF5, RT:12.706	
14-Sep-21	16:34:35	Peak modified	Sample:10-210913B16, Compound:PentaF5, RT:12.706	EG210914MA
14-Sep-21	16:34:35	Peak modified	Sample:10-210913B16, Compound:PentaF5, RT:12.196	EG210914MA
14-Sep-21	16:35:12	Pre modification peak	Sample:10-210913B17, Compound:PentaF5, RT:12.693	
14-Sep-21	16:35:12	Peak modified	Sample:10-210913B17, Compound:PentaF5, RT:12.693	EG210914MB
14-Sep-21	16:35:12	Pre modification peak	Sample:10-210913B17, Compound:PentaF5, RT:12.693	
14-Sep-21	16:35:12	Peak modified	Sample:10-210913B17, Compound:PentaF5, RT:12.693	EG210914MB
14-Sep-21	16:35:51	Pre modification peak	Sample:10-210913B17, Compound:PentaF5, RT:13.116	
14-Sep-21	16:35:51	Peak modified	Sample:10-210913B17, Compound:PentaF5, RT:13.116	EG210914MB
14-Sep-21	16:35:51	Pre modification peak	Sample:10-210913B17, Compound:PentaF5, RT:13.104	
14-Sep-21	16:35:51	Peak modified	Sample:10-210913B17, Compound:PentaF5, RT:13.104	EG210914MB
14-Sep-21	16:36:30	Peak modified	Sample:10-210913B17, Compound:PentaF5, RT:13.116	EG210914MB
14-Sep-21	16:36:30	Pre modification peak	Sample:10-210913B17, Compound:PentaF5, RT:13.588	
14-Sep-21	16:36:30	Peak modified	Sample:10-210913B17, Compound:PentaF5, RT:13.588	EG210914MB
14-Sep-21	16:36:30	Peak modified	Sample:10-210913B17, Compound:PentaF5, RT:13.104	EG210914MB
14-Sep-21	16:36:30	Pre modification peak	Sample:10-210913B17, Compound:PentaF5, RT:13.601	
14-Sep-21	16:36:30	Peak modified	Sample:10-210913B17, Compound:PentaF5, RT:13.601	EG210914MB
14-Sep-21	16:37:35	Pre modification peak	Sample:10-210913B18, Compound:PentaF5, RT:12.842	
14-Sep-21	16:37:35	Peak modified	Sample:10-210913B18, Compound:PentaF5, RT:12.842	EG210914MB
14-Sep-21	16:37:35	Pre modification peak	Sample:10-210913B18, Compound:PentaF5, RT:12.842	
14-Sep-21	16:37:35	Peak modified	Sample:10-210913B18, Compound:PentaF5, RT:12.842	EG210914MB
14-Sep-21	16:37:45	Dataset Saved	Saved to 'I:\Organics Instrument\HIGHRES GCMS Complete...	
14-Sep-21	16:38:53	Peak added	Sample:10-210913B24, Compound:PentaF5, RT:13.762	EG210914MA
14-Sep-21	16:38:53	Peak added	Sample:10-210913B24, Compound:PentaF5, RT:13.774	EG210914MA
14-Sep-21	16:39:14	Peak added	Sample:10-210913B25, Compound:PentaF5, RT:12.432	EG210914MA
14-Sep-21	16:39:14	Peak added	Sample:10-210913B25, Compound:PentaF5, RT:12.432	EG210914MA
14-Sep-21	16:40:40	Pre modification peak	Sample:10-210913B26, Compound:PentaF5, RT:12.755	

Date	Time	Event	Details	Comments
14-Sep-21	16:40:40	Peak modified	Sample:10-210913B26, Compound:PentaF5, RT:12.755	EG210914MB
14-Sep-21	16:40:40	Pre modification peak	Sample:10-210913B26, Compound:PentaF5, RT:13.165	
14-Sep-21	16:40:40	Peak modified	Sample:10-210913B26, Compound:PentaF5, RT:13.165	EG210914MB
14-Sep-21	16:40:40	Pre modification peak	Sample:10-210913B26, Compound:PentaF5, RT:13.638	
14-Sep-21	16:40:40	Peak modified	Sample:10-210913B26, Compound:PentaF5, RT:13.638	EG210914MB
14-Sep-21	16:40:40	Pre modification peak	Sample:10-210913B26, Compound:PentaF5, RT:13.824	
14-Sep-21	16:40:40	Peak modified	Sample:10-210913B26, Compound:PentaF5, RT:13.824	EG210914MB
14-Sep-21	16:40:40	Pre modification peak	Sample:10-210913B26, Compound:PentaF5, RT:12.755	
14-Sep-21	16:40:40	Peak modified	Sample:10-210913B26, Compound:PentaF5, RT:12.755	EG210914MB
14-Sep-21	16:40:40	Pre modification peak	Sample:10-210913B26, Compound:PentaF5, RT:13.153	
14-Sep-21	16:40:40	Peak modified	Sample:10-210913B26, Compound:PentaF5, RT:13.153	EG210914MB
14-Sep-21	16:40:40	Pre modification peak	Sample:10-210913B26, Compound:PentaF5, RT:13.812	
14-Sep-21	16:40:40	Peak modified	Sample:10-210913B26, Compound:PentaF5, RT:13.812	EG210914MB
14-Sep-21	16:41:27	Peak added	Sample:10-210913B27, Compound:PentaF5, RT:12.259	EG210914MA
14-Sep-21	16:41:27	Peak added	Sample:10-210913B27, Compound:PentaF5, RT:12.755	EG210914MA
14-Sep-21	16:41:27	Peak added	Sample:10-210913B27, Compound:PentaF5, RT:12.271	EG210914MA
14-Sep-21	16:41:27	Peak added	Sample:10-210913B27, Compound:PentaF5, RT:12.755	EG210914MA
14-Sep-21	16:41:54	Pre modification peak	Sample:10-210913B28, Compound:PentaF5, RT:12.755	
14-Sep-21	16:41:54	Peak modified	Sample:10-210913B28, Compound:PentaF5, RT:12.755	EG210914MB
14-Sep-21	16:41:54	Pre modification peak	Sample:10-210913B28, Compound:PentaF5, RT:13.638	
14-Sep-21	16:41:54	Peak modified	Sample:10-210913B28, Compound:PentaF5, RT:13.638	EG210914MB
14-Sep-21	16:41:54	Peak added	Sample:10-210913B28, Compound:PentaF5, RT:13.638	EG210914MB
14-Sep-21	16:42:20	Peak modified	Sample:10-210913B28, Compound:PentaF5, RT:13.638	EG210914MA
14-Sep-21	16:42:41	Peak added	Sample:10-210913B31, Compound:PentaF5, RT:12.196	EG210914MB
14-Sep-21	16:42:41	Peak added	Sample:10-210913B31, Compound:PentaF5, RT:12.196	EG210914MB
14-Sep-21	16:42:47	Dataset Saved	Saved to 'I:\Organics Instrument\HIGHRES GCMS Complete...	
14-Sep-21	16:43:00	Pre modification peak	Sample:10-210913B31, Compound:PentaF5, RT:12.706	
14-Sep-21	16:43:00	Peak modified	Sample:10-210913B31, Compound:PentaF5, RT:12.706	EG210914MB
14-Sep-21	16:43:07	Dataset Saved	Saved to 'I:\Organics Instrument\HIGHRES GCMS Complete...	
14-Sep-21	16:43:22	Peak added	Sample:10-210913B32, Compound:PentaF5, RT:12.706	EG210914MA
14-Sep-21	16:43:22	Peak added	Sample:10-210913B32, Compound:PentaF5, RT:12.706	EG210914MA
14-Sep-21	16:44:24	Pre modification peak	Sample:10-210913B17, Compound:HexaF5, RT:13.762	
14-Sep-21	16:44:24	Peak modified	Sample:10-210913B17, Compound:HexaF5, RT:13.762	EG210914MB
14-Sep-21	16:44:24	Pre modification peak	Sample:10-210913B17, Compound:HexaF5, RT:14.135	
14-Sep-21	16:44:24	Peak modified	Sample:10-210913B17, Compound:HexaF5, RT:14.135	EG210914MB
14-Sep-21	16:44:24	Pre modification peak	Sample:10-210913B17, Compound:HexaF5, RT:14.135	
14-Sep-21	16:44:24	Peak modified	Sample:10-210913B17, Compound:HexaF5, RT:14.135	EG210914MB
14-Sep-21	16:45:14	Pre modification peak	Sample:10-210913B24, Compound:HexaF5, RT:14.309	
14-Sep-21	16:45:14	Peak modified	Sample:10-210913B24, Compound:HexaF5, RT:14.309	EG210914MB
14-Sep-21	16:45:33	Peak added	Sample:10-210913B25, Compound:HexaF5, RT:14.284	EG210914MA
14-Sep-21	16:45:33	Peak added	Sample:10-210913B25, Compound:HexaF5, RT:14.296	EG210914MA
14-Sep-21	16:46:58	Pre modification peak	Sample:10-210913B17, Compound:HexaF6, RT:14.872	
14-Sep-21	16:46:58	Peak modified	Sample:10-210913B17, Compound:HexaF6, RT:14.872	EG210914MB
14-Sep-21	16:46:58	Pre modification peak	Sample:10-210913B17, Compound:HexaF6, RT:15.819	
14-Sep-21	16:46:58	Peak modified	Sample:10-210913B17, Compound:HexaF6, RT:15.819	EG210914MB
14-Sep-21	16:46:58	Pre modification peak	Sample:10-210913B17, Compound:HexaF6, RT:15.830	
14-Sep-21	16:46:58	Peak modified	Sample:10-210913B17, Compound:HexaF6, RT:15.830	EG210914MB
14-Sep-21	16:47:20	Pre modification peak	Sample:10-210913B17, Compound:HexaF6, RT:15.328	
14-Sep-21	16:47:20	Peak modified	Sample:10-210913B17, Compound:HexaF6, RT:15.328	EG210914MB
14-Sep-21	16:48:27	Pre modification peak	Sample:10-210913B26, Compound:HexaF6, RT:14.953	
14-Sep-21	16:48:27	Peak modified	Sample:10-210913B26, Compound:HexaF6, RT:14.953	EG210914MB
14-Sep-21	16:48:27	Pre modification peak	Sample:10-210913B26, Compound:HexaF6, RT:14.953	
14-Sep-21	16:48:27	Peak modified	Sample:10-210913B26, Compound:HexaF6, RT:14.953	EG210914MB

Quantify Audit Report MassLynx MassLynx V4.1 SCN 901

Dataset: I:\Organics Instrument\HIGHRES GCMS Completed Results Files\HR-10\2021\2109\10-210913B-Q1-PBDE.qld

Last Altered: Thursday, September 16, 2021 14:59:12 Eastern Daylight Time
Printed: Friday, September 17, 2021 10:41:58 Eastern Daylight Time

Date	Time	Event	Details	Comments
14-Sep-21	16:49:21	Pre modification peak	Sample:10-210913B17, Compound:HeptaF6, RT:17.011	
14-Sep-21	16:49:21	Peak modified	Sample:10-210913B17, Compound:HeptaF6, RT:17.011	EG210914MB
14-Sep-21	16:50:54	Pre modification peak	Sample:10-210913B17, Compound:OctaF7, RT:19.894	
14-Sep-21	16:50:54	Peak modified	Sample:10-210913B17, Compound:OctaF7, RT:19.894	EG210914MB
14-Sep-21	16:51:28	Pre modification peak	Sample:10-210913B17, Compound:OctaF7, RT:19.755	
14-Sep-21	16:51:28	Peak modified	Sample:10-210913B17, Compound:OctaF7, RT:19.755	EG210914MB
14-Sep-21	16:51:28	Pre modification peak	Sample:10-210913B17, Compound:OctaF7, RT:19.755	
14-Sep-21	16:51:28	Peak modified	Sample:10-210913B17, Compound:OctaF7, RT:19.755	EG210914MB
14-Sep-21	16:52:09	Peak added	Sample:10-210913B26, Compound:OctaF7, RT:20.121	EG210914MA
14-Sep-21	16:52:09	Peak added	Sample:10-210913B26, Compound:OctaF7, RT:20.108	EG210914MA
14-Sep-21	16:52:18	Peak modified	Sample:10-210913B26, Compound:OctaF7, RT:20.108	EG210914MA
14-Sep-21	16:53:15	Peak added	Sample:10-210913B26, Compound:OctaF7, RT:19.944	EG210914MA
14-Sep-21	16:53:15	Peak modified	Sample:10-210913B26, Compound:OctaF7, RT:20.108	EG210914MA
14-Sep-21	16:53:15	Peak added	Sample:10-210913B26, Compound:OctaF7, RT:19.932	EG210914MA
14-Sep-21	16:53:42	Peak added	Sample:10-210913B28, Compound:OctaF7, RT:19.515	EG210914MA
14-Sep-21	16:53:42	Peak added	Sample:10-210913B28, Compound:OctaF7, RT:19.503	EG210914MA
14-Sep-21	16:54:51	Pre modification peak	Sample:10-210913B09, Compound:NonaF8, RT:21.225	
14-Sep-21	16:54:51	Peak modified	Sample:10-210913B09, Compound:NonaF8, RT:21.225	EG210914MB
14-Sep-21	16:54:51	Pre modification peak	Sample:10-210913B09, Compound:NonaF8, RT:21.343	
14-Sep-21	16:54:51	Peak modified	Sample:10-210913B09, Compound:NonaF8, RT:21.343	EG210914MB
14-Sep-21	16:54:51	Pre modification peak	Sample:10-210913B09, Compound:NonaF8, RT:21.343	
14-Sep-21	16:54:51	Peak modified	Sample:10-210913B09, Compound:NonaF8, RT:21.343	EG210914MB
14-Sep-21	16:55:21	Peak added	Sample:10-210913B14, Compound:NonaF8, RT:21.355	EG210914MA
14-Sep-21	16:55:21	Peak added	Sample:10-210913B14, Compound:NonaF8, RT:21.626	EG210914MA
14-Sep-21	16:55:21	Peak added	Sample:10-210913B14, Compound:NonaF8, RT:21.343	EG210914MA
14-Sep-21	16:55:21	Peak added	Sample:10-210913B14, Compound:NonaF8, RT:21.614	EG210914MA
14-Sep-21	16:55:43	Peak modified	Sample:10-210913B14, Compound:NonaF8, RT:21.355	EG210914MA
14-Sep-21	16:56:04	Peak added	Sample:10-210913B14, Compound:NonaF8, RT:21.237	EG210914MA
14-Sep-21	16:56:04	Peak added	Sample:10-210913B14, Compound:NonaF8, RT:21.237	EG210914MA
14-Sep-21	16:56:16	Peak deleted	Sample:10-210913B14, Compound:NonaF8, RT:21.237	
14-Sep-21	16:56:16	Peak deleted	Sample:10-210913B14, Compound:NonaF8, RT:21.237	
14-Sep-21	16:57:05	Peak added	Sample:10-210913B15, Compound:NonaF8, RT:21.237	EG210914MA
14-Sep-21	16:57:05	Peak added	Sample:10-210913B15, Compound:NonaF8, RT:21.249	EG210914MA
14-Sep-21	16:57:22	Peak added	Sample:10-210913B16, Compound:NonaF8, RT:21.614	EG210914MA
14-Sep-21	16:57:22	Peak added	Sample:10-210913B16, Compound:NonaF8, RT:21.614	EG210914MA
14-Sep-21	16:57:54	Pre modification peak	Sample:10-210913B17, Compound:NonaF8, RT:21.343	
14-Sep-21	16:57:54	Peak modified	Sample:10-210913B17, Compound:NonaF8, RT:21.343	EG210914MA
14-Sep-21	17:00:11	Peak added	Sample:10-210913B14, Compound:DecaF9, RT:23.276	EG210914MA
14-Sep-21	17:00:11	Peak added	Sample:10-210913B14, Compound:DecaF9, RT:23.276	EG210914MA
14-Sep-21	17:00:27	Peak added	Sample:10-210913B15, Compound:DecaF9, RT:23.267	EG210914MA
14-Sep-21	17:00:27	Peak added	Sample:10-210913B15, Compound:DecaF9, RT:23.284	EG210914MA
14-Sep-21	17:00:44	Peak added	Sample:10-210913B16, Compound:DecaF9, RT:23.258	EG210914MA
14-Sep-21	17:00:44	Peak added	Sample:10-210913B16, Compound:DecaF9, RT:23.267	EG210914MA
14-Sep-21	17:00:53	Peak modified	Sample:10-210913B16, Compound:DecaF9, RT:23.267	EG210914MA
14-Sep-21	17:01:24	Peak added	Sample:10-210913B25, Compound:13CDecaF9, RT:23.284	EG210914MA
14-Sep-21	17:01:24	Peak added	Sample:10-210913B25, Compound:13CDecaF9, RT:23.293	EG210914MA
14-Sep-21	17:01:24	Peak added	Sample:10-210913B25, Compound:DecaF9, RT:23.293	EG210914MA
14-Sep-21	17:01:24	Peak added	Sample:10-210913B25, Compound:DecaF9, RT:23.293	EG210914MA
14-Sep-21	17:01:49	Peak added	Sample:10-210913B28, Compound:DecaF9, RT:23.284	EG210914MA
14-Sep-21	17:01:49	Peak added	Sample:10-210913B28, Compound:DecaF9, RT:23.284	EG210914MA
14-Sep-21	17:02:08	Peak modified	Sample:10-210913B28, Compound:DecaF9, RT:23.284	EG210914MA
14-Sep-21	17:02:30	Peak added	Sample:10-210913B31, Compound:DecaF9, RT:23.276	EG210914MA
14-Sep-21	17:02:30	Peak added	Sample:10-210913B31, Compound:DecaF9, RT:23.258	EG210914MA

Quantify Audit Report MassLynx MassLynx V4.1 SCN 901

Dataset: I:\Organics Instrument\HIGHRES GCMS Completed Results Files\HR-10\2021\2109\10-210913B-Q1-PBDE.qld

Last Altered: Thursday, September 16, 2021 14:59:12 Eastern Daylight Time
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Date	Time	Event	Details	Comments
14-Sep-21	17:03:09	Peak added	Sample:10-210913B14, Compound:DBDPEF10, RT:24.659	EG210914MA
14-Sep-21	17:03:09	Peak added	Sample:10-210913B14, Compound:DBDPEF10, RT:24.659	EG210914MA
14-Sep-21	17:03:31	Pre modification peak	Sample:10-210913B17, Compound:DBDPEF10, RT:24.648	
14-Sep-21	17:03:31	Peak modified	Sample:10-210913B17, Compound:DBDPEF10, RT:24.648	EG210914MB
14-Sep-21	17:04:07	Peak added	Sample:10-210913B28, Compound:DBDPEF10, RT:24.700	EG210914MA
14-Sep-21	17:04:07	Peak added	Sample:10-210913B28, Compound:DBDPEF10, RT:24.659	EG210914MA
14-Sep-21	17:04:20	Dataset Saved	Saved to 'I:\Organics Instrument\HIGHRES GCMS Complete...	
16-Sep-21	17:13:46	Dataset Saved	Saved to 'I:\Organics Instrument\HIGHRES GCMS Complete...	

Dataset: I:\Organics Instrument\HIGHRES GCMS Completed Results Files\HR-10\2021\2109\10-210913B-Q1-PBDE.qld

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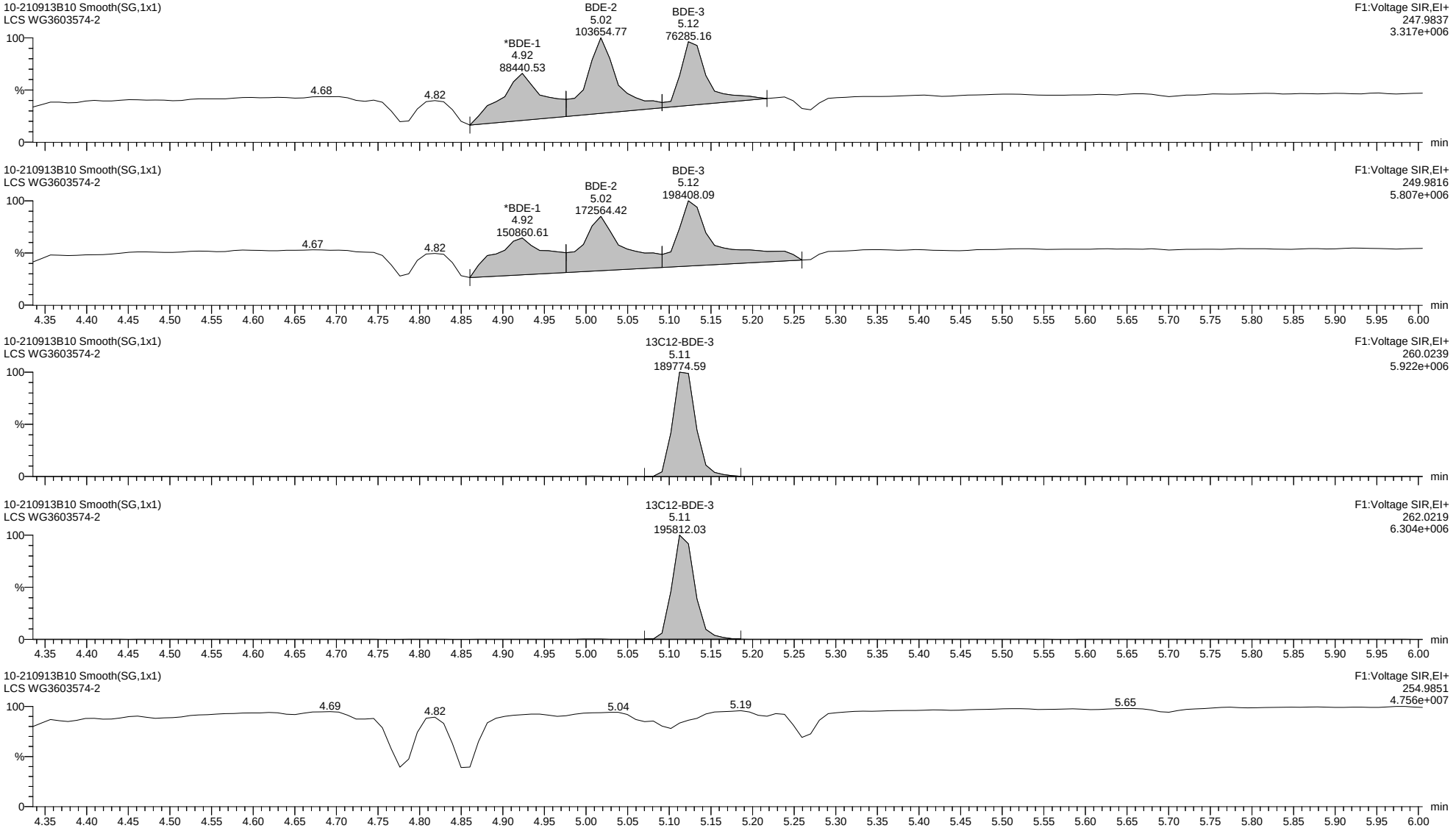
Method: C:\MassLynx\PBDE.PRO\MethDB\PBDEX-DB5-1-210913B.mdb 14 Sep 2021 11:10:04
Calibration: C:\MassLynx\PBDE.PRO\CurveDB\10-210913B-ICAL-PBDE.cdb 14 Sep 2021 11:07:06

Name: 10-210913B10, Date: 13-Sep-2021, Time: 22:26:40, ID: WG3603574-2, Description: LCS, Vial: Tray1:15



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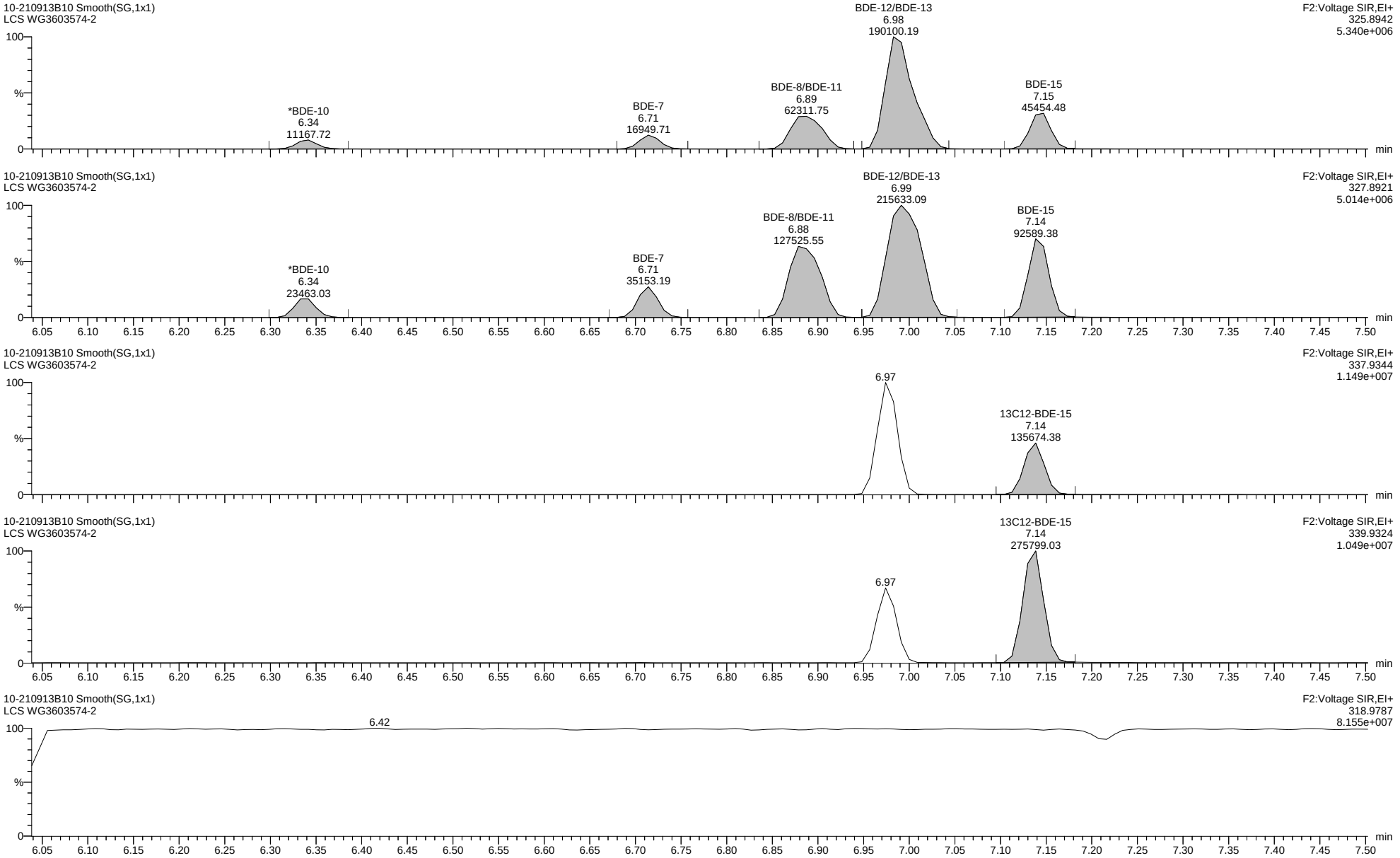

Quantify Sample Template Report **MassLynx MassLynx V4.1 SCN 901**

Dataset: I:\Organics Instrument\HIGHRES GCMS Completed Results Files\HR-10\2021\2109\10-210913B-Q1-PBDE.qld

Last Altered: Thursday, September 16, 2021 14:59:12 Eastern Daylight Time
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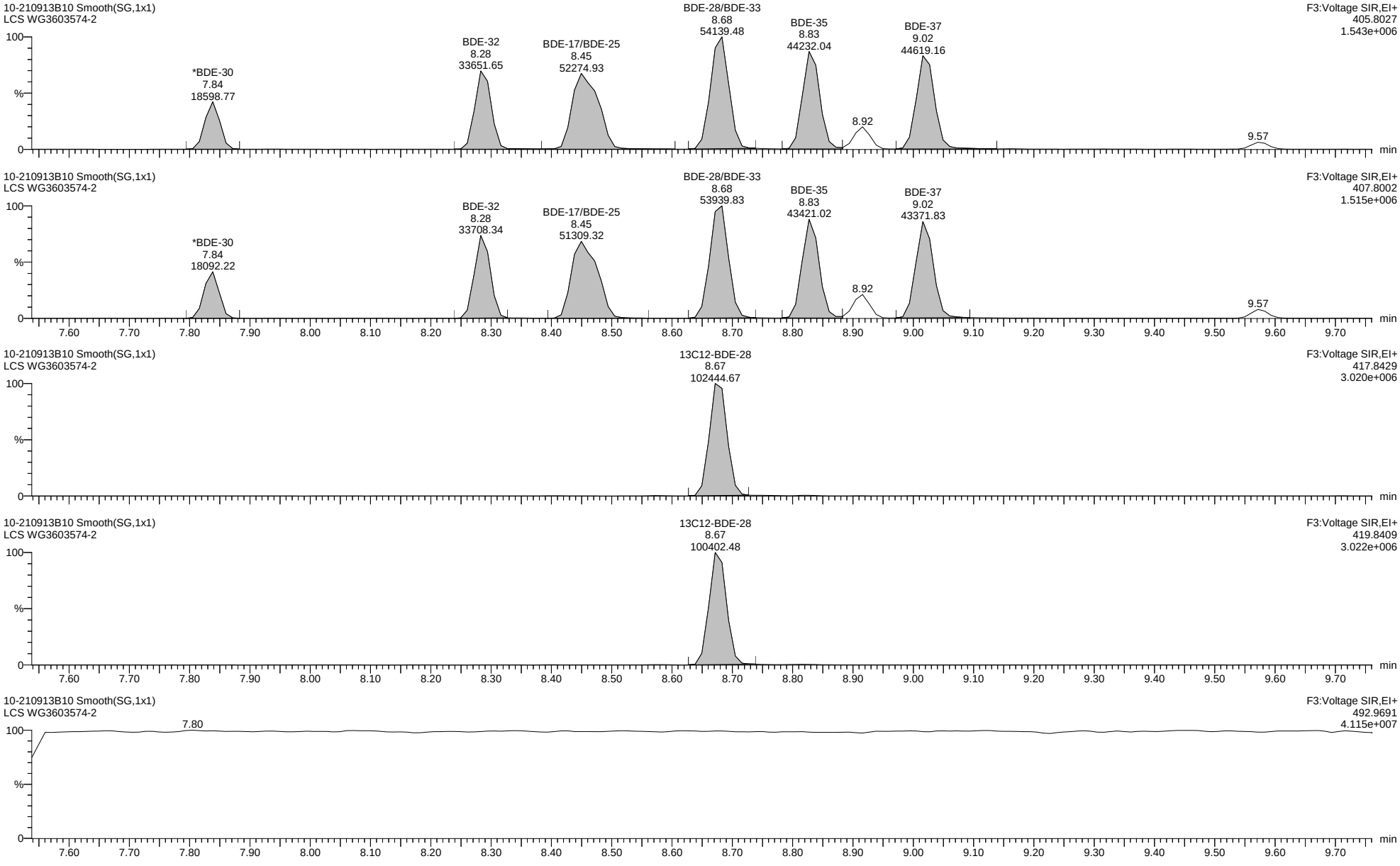

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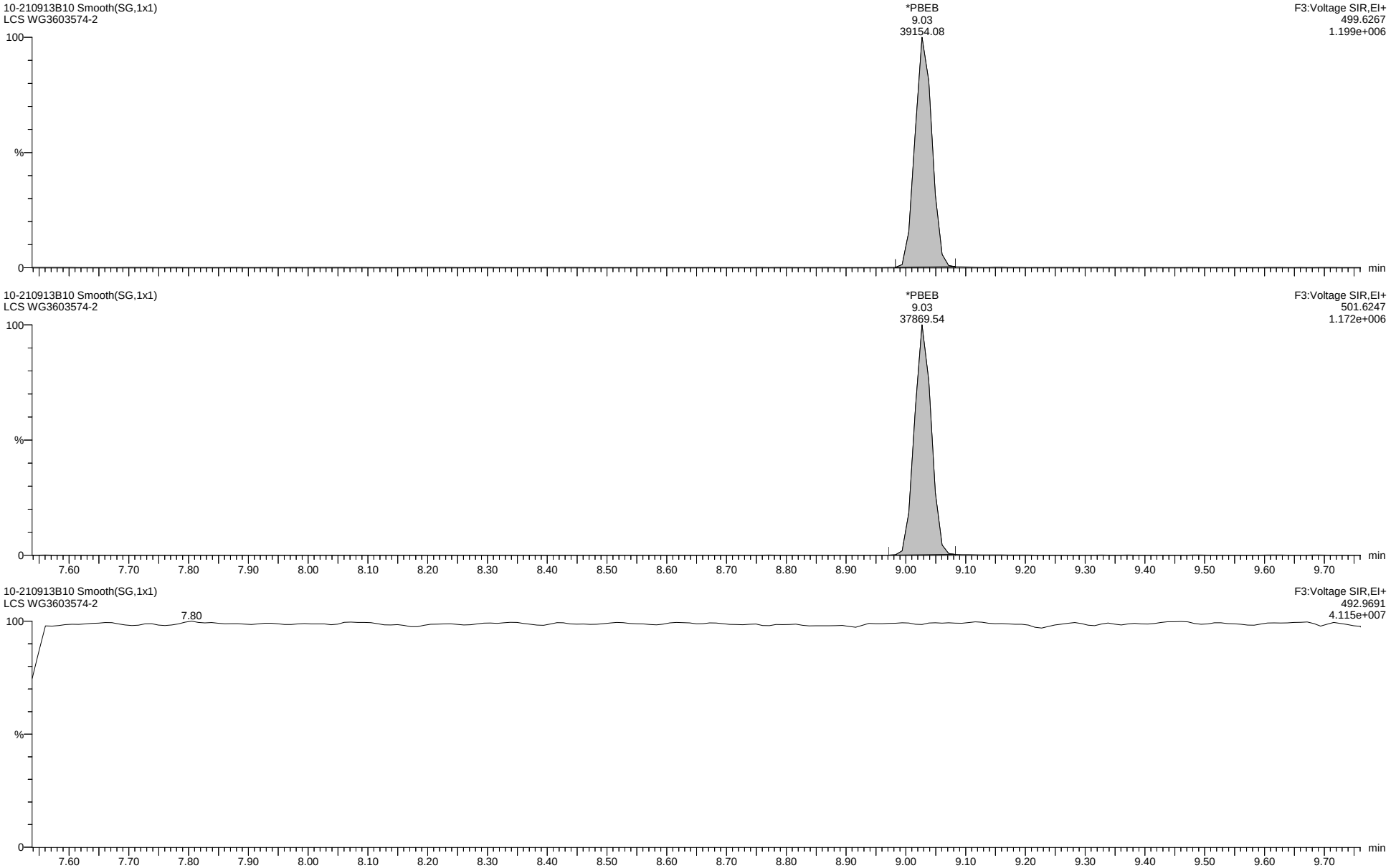

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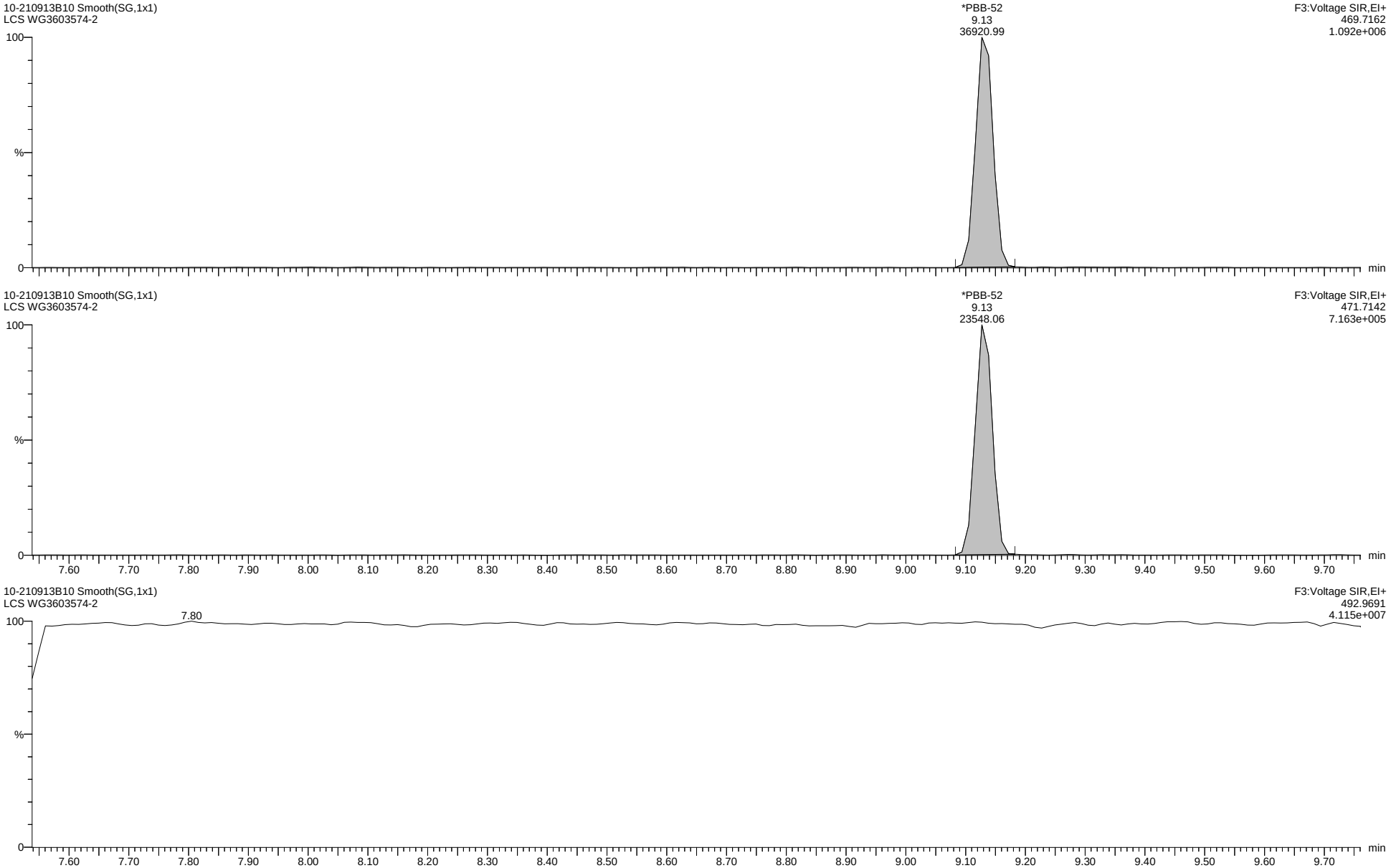

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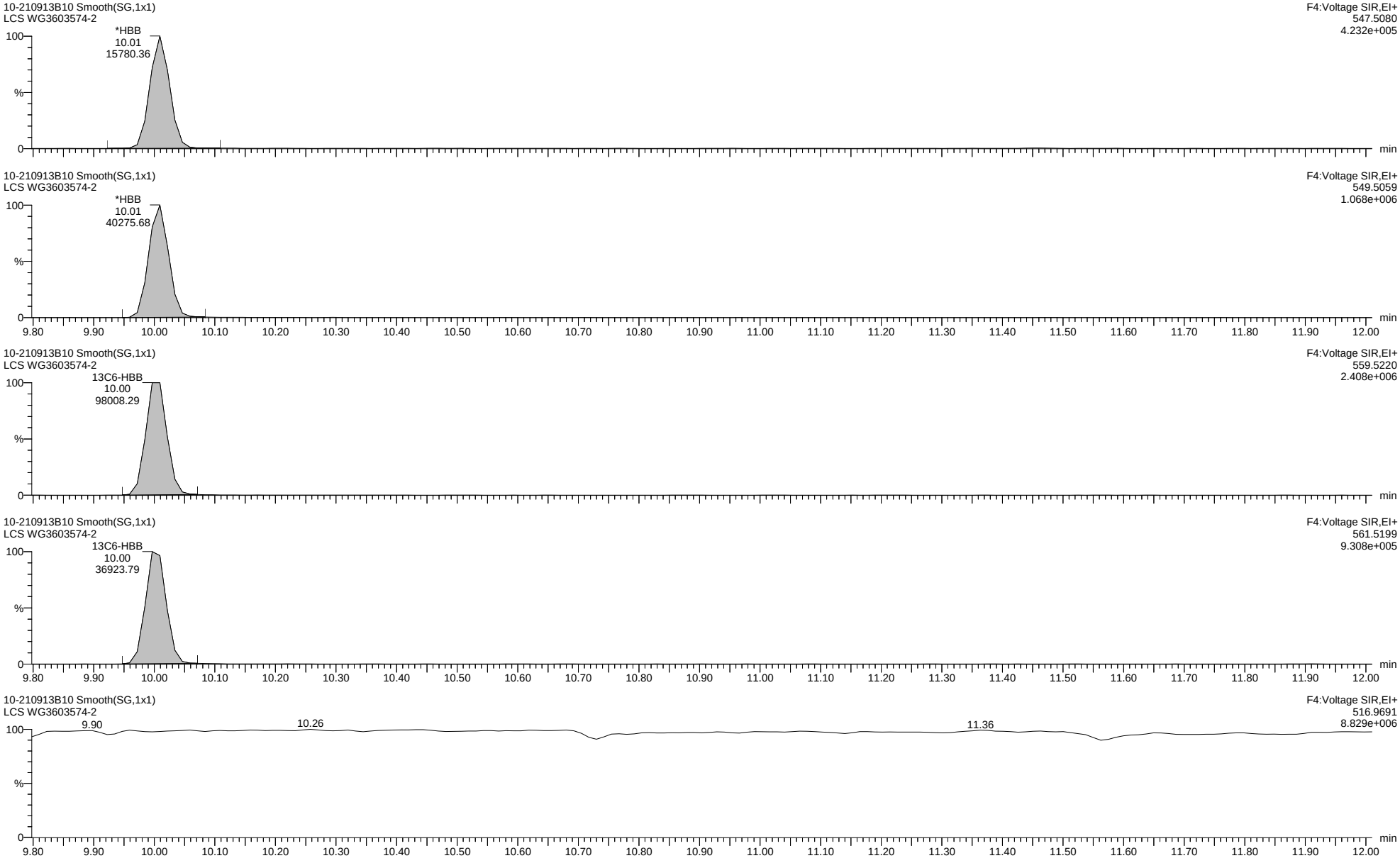

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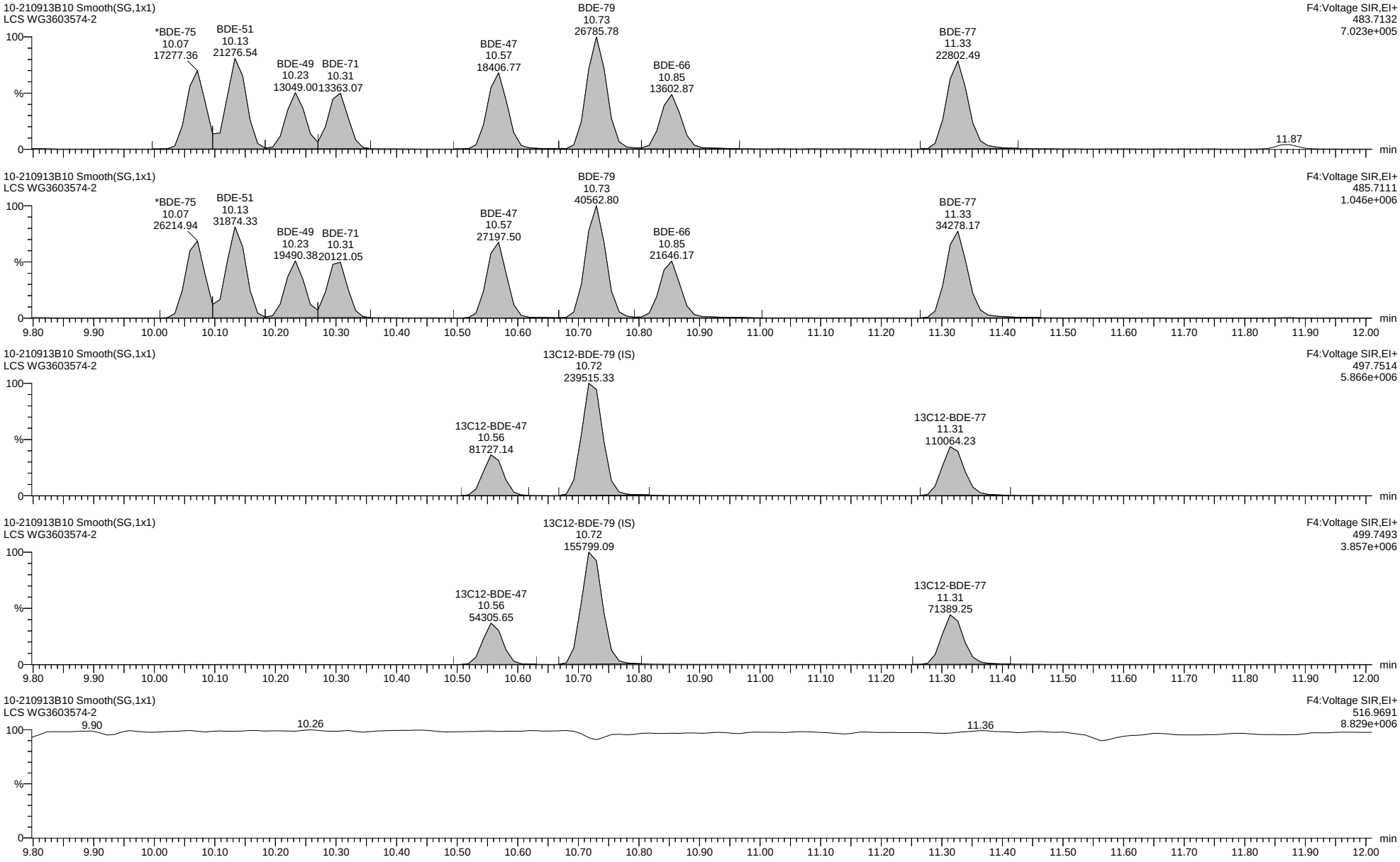

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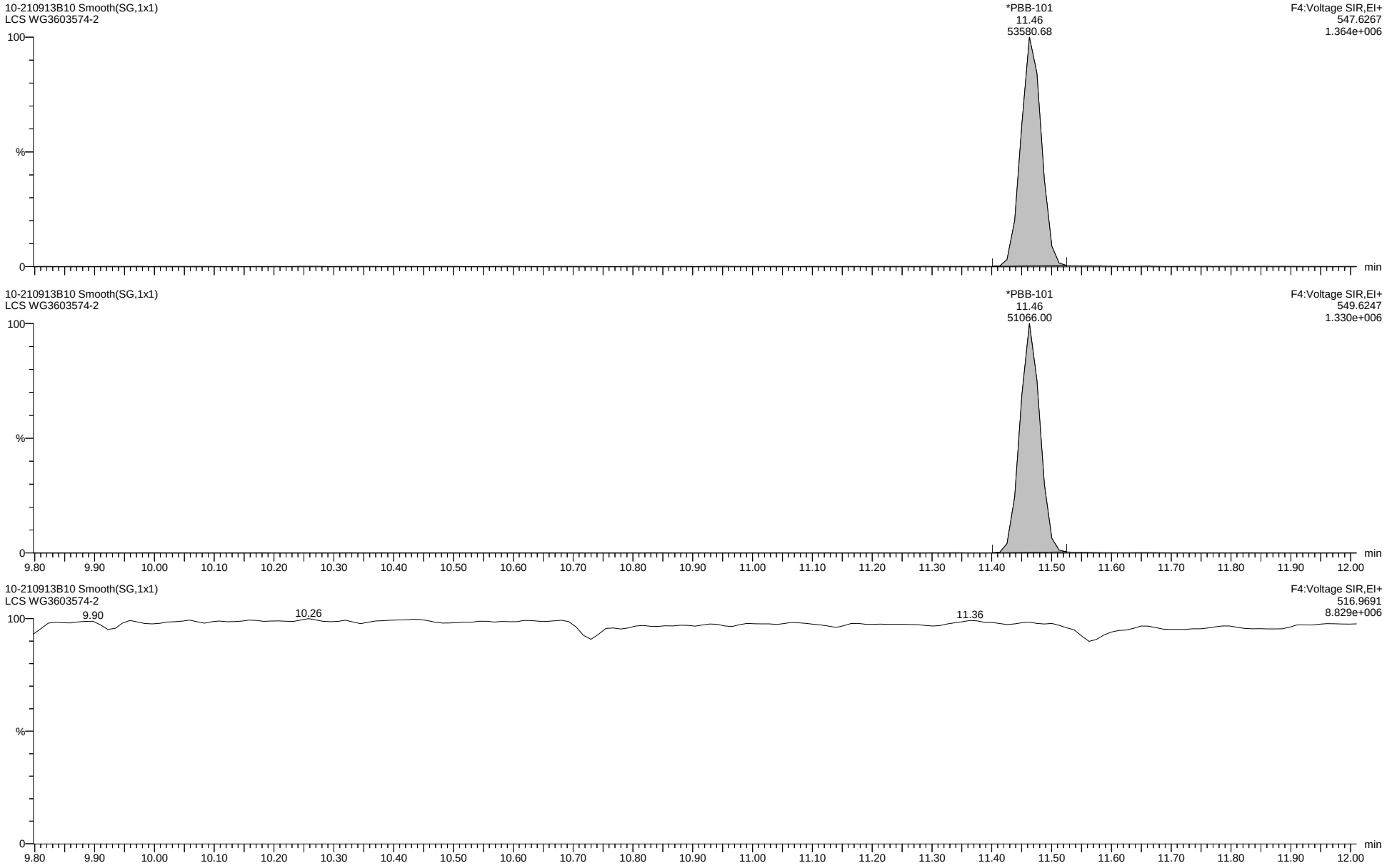

Quantify Sample Template Report **MassLynx MassLynx V4.1 SCN 901**

Dataset: I:\Organics Instrument\HIGHRES GCMS Completed Results Files\HR-10\2021\2109\10-210913B-Q1-PBDE.qld

Last Altered: Thursday, September 16, 2021 14:59:12 Eastern Daylight Time
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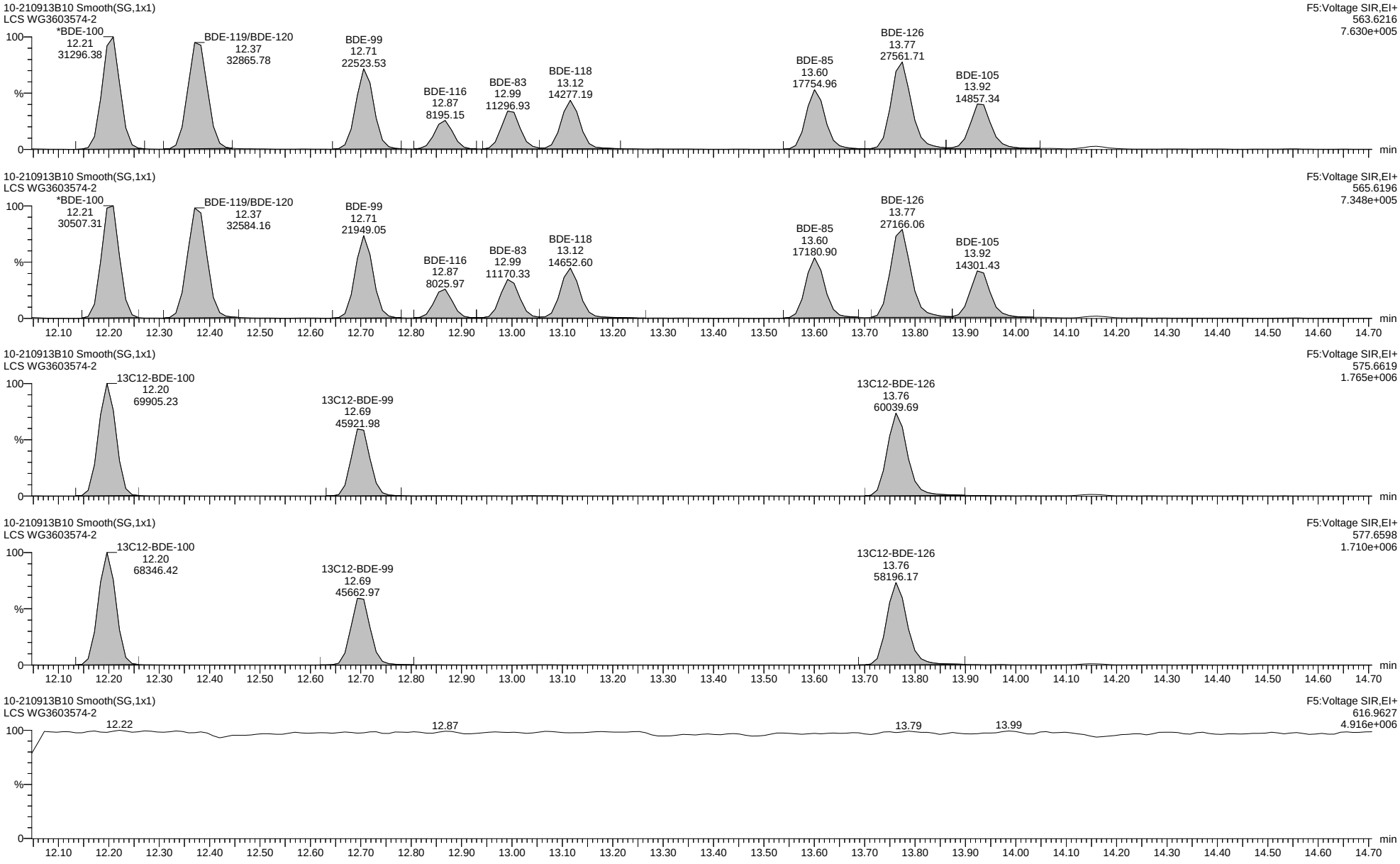

Quantify Sample Template Report **MassLynx MassLynx V4.1 SCN 901**

Dataset: I:\Organics Instrument\HIGHRES GCMS Completed Results Files\HR-10\2021\2109\10-210913B-Q1-PBDE.qld

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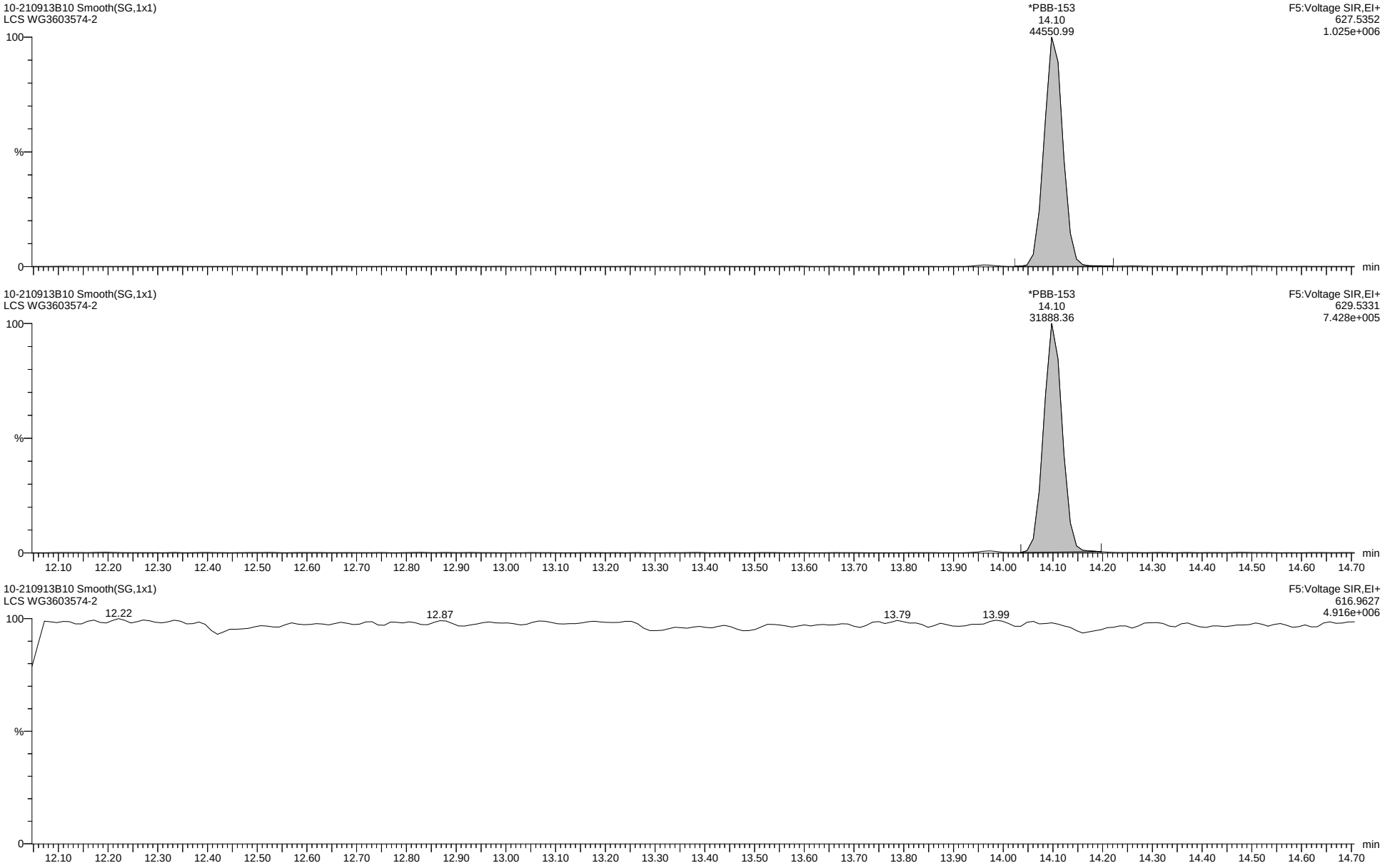

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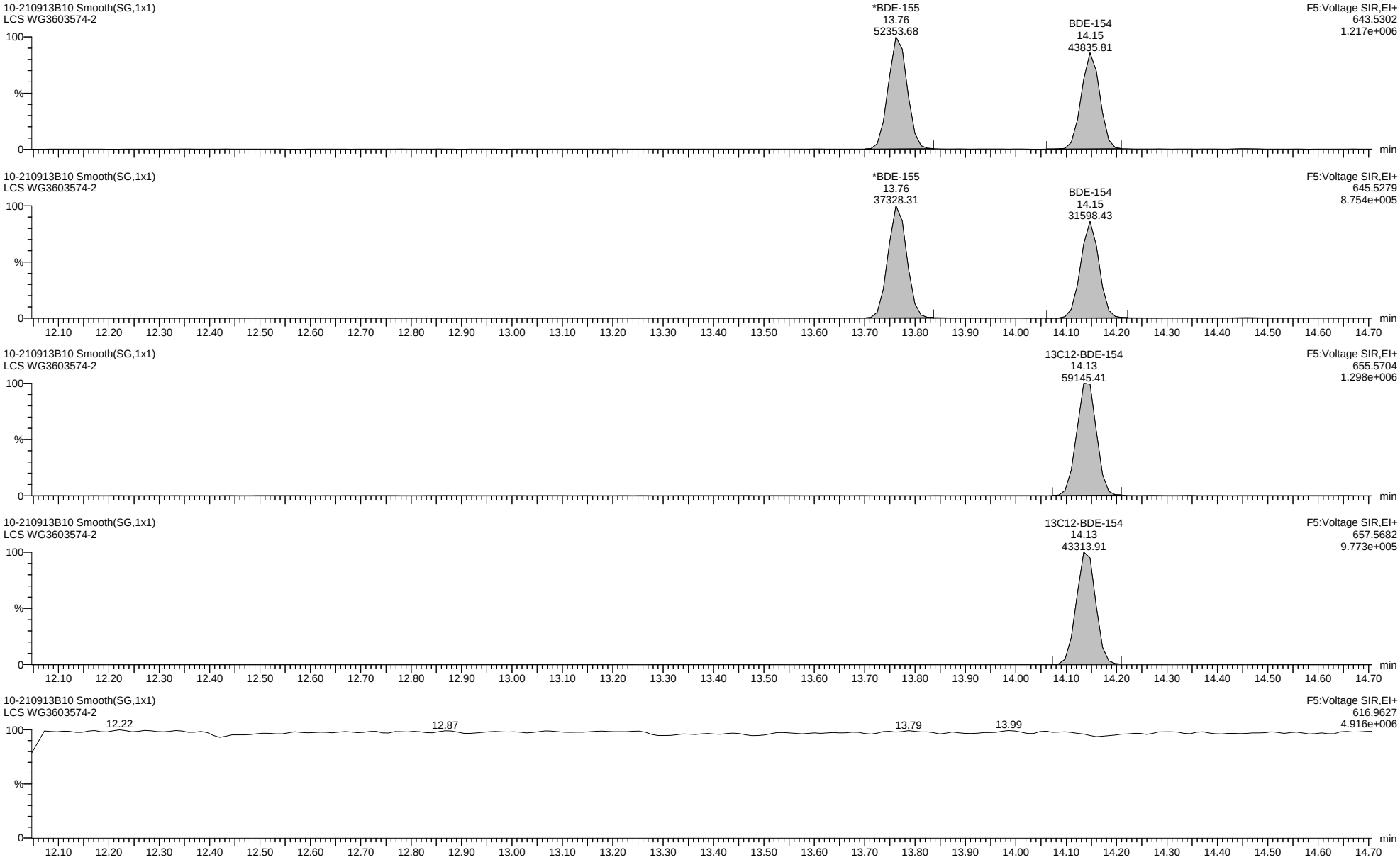

Quantify Sample Template Report **MassLynx MassLynx V4.1 SCN 901**

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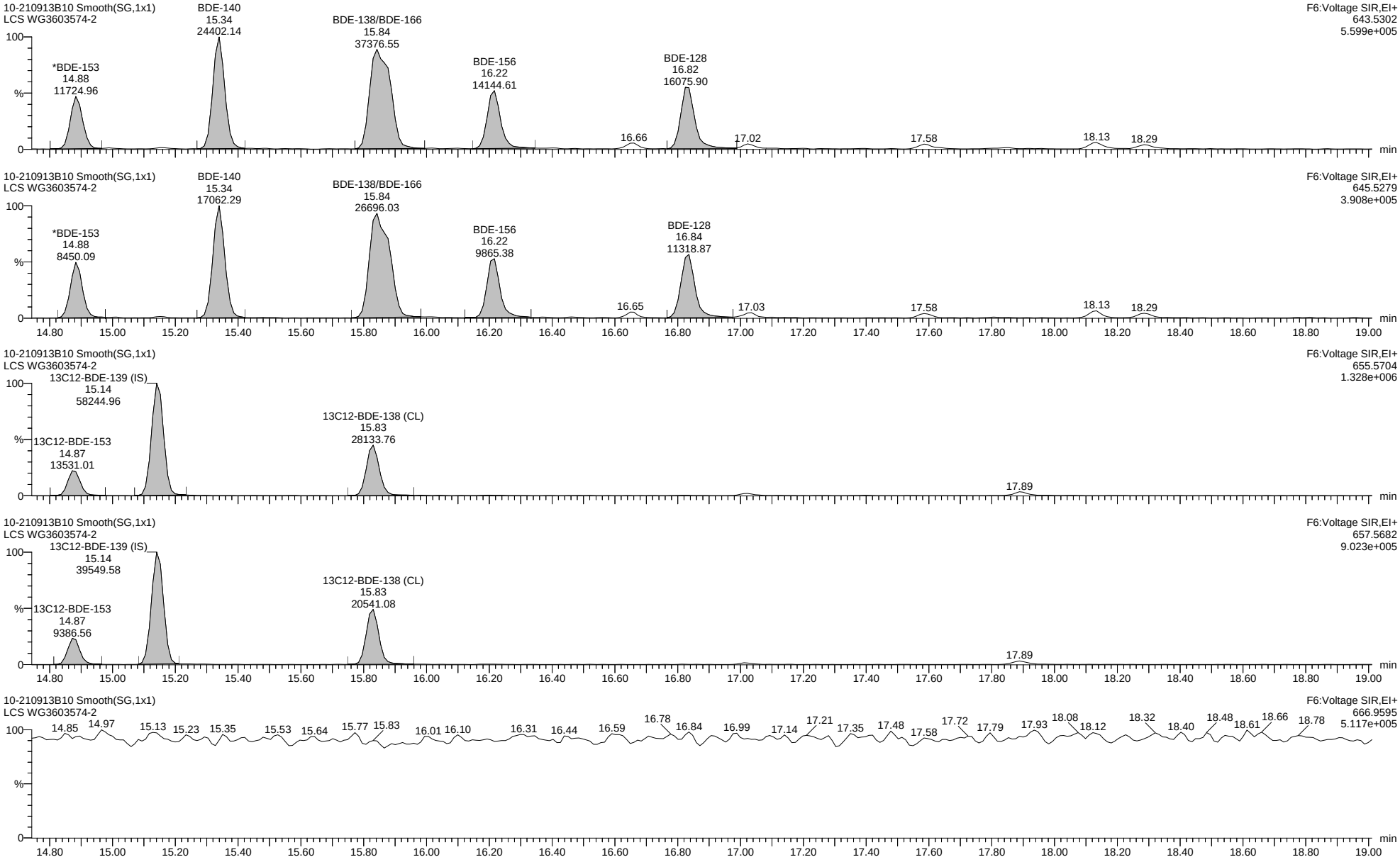

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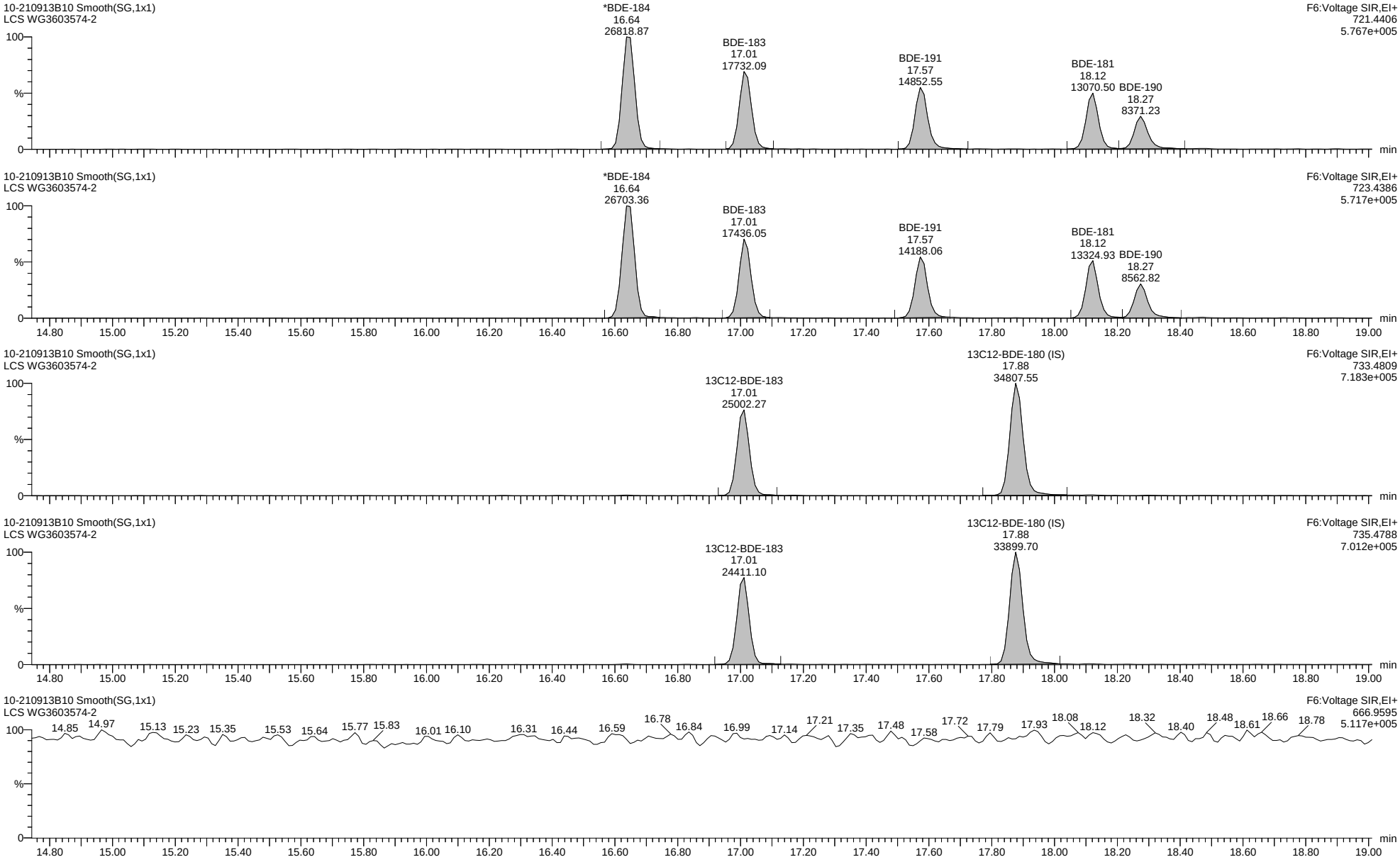

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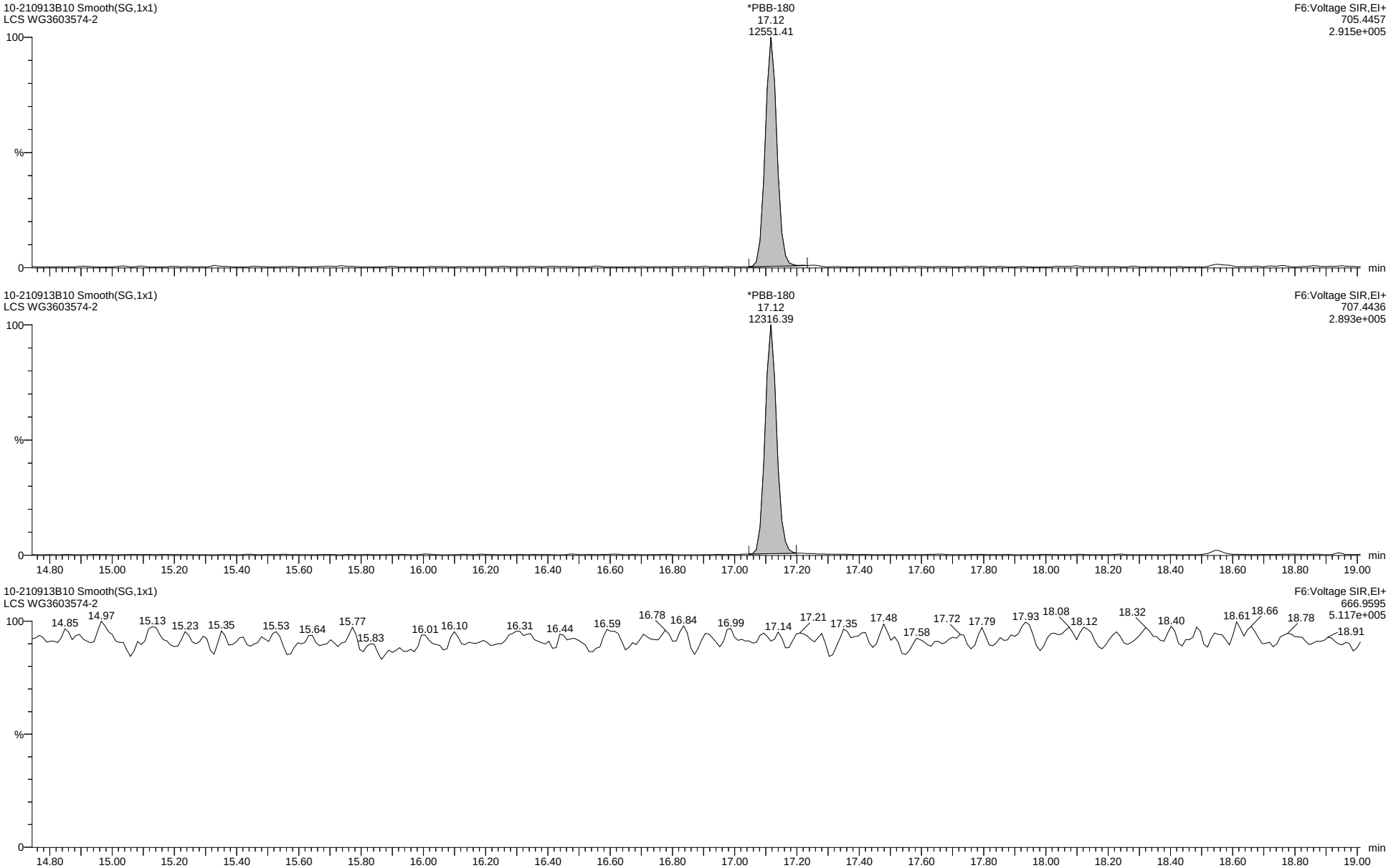

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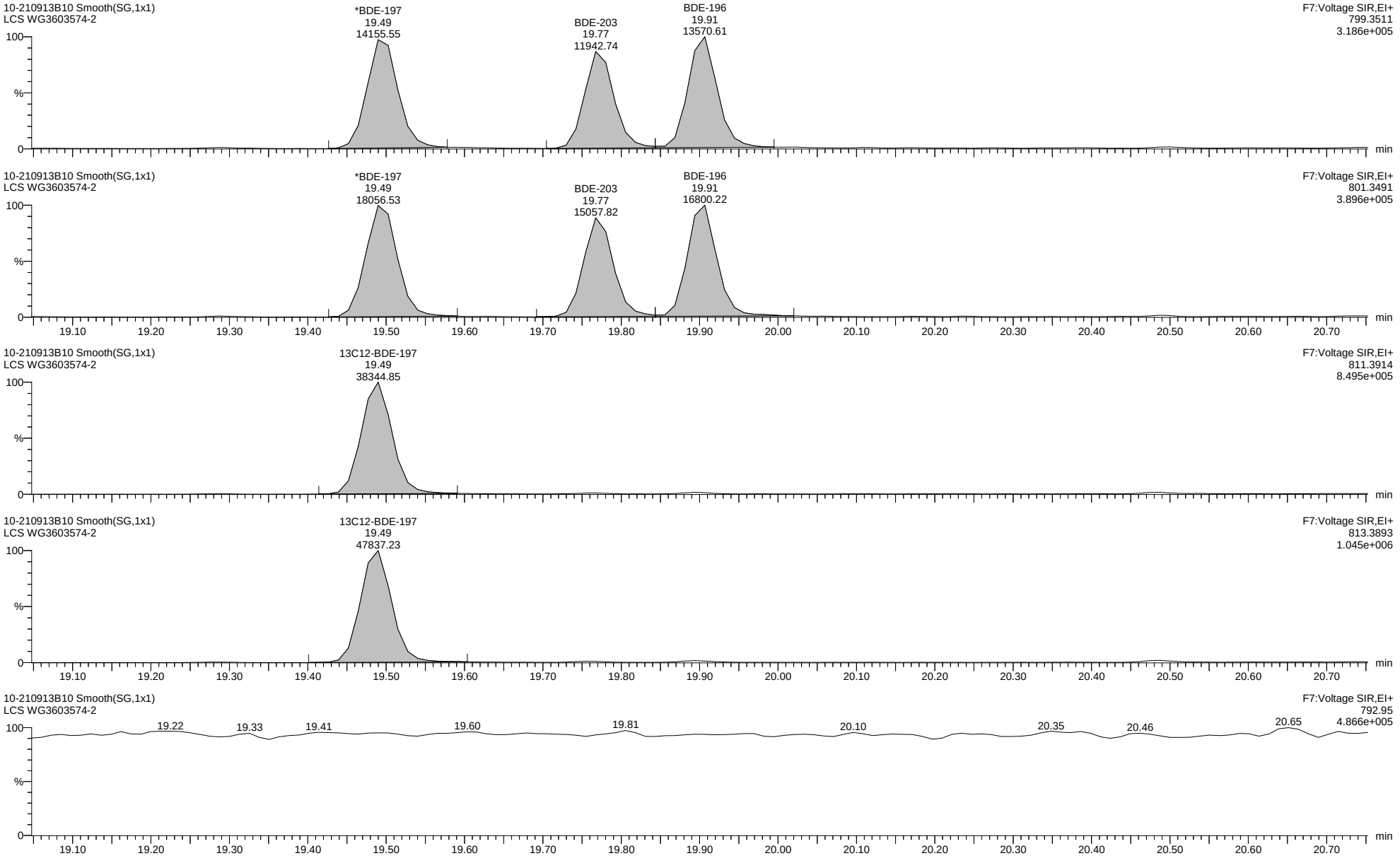

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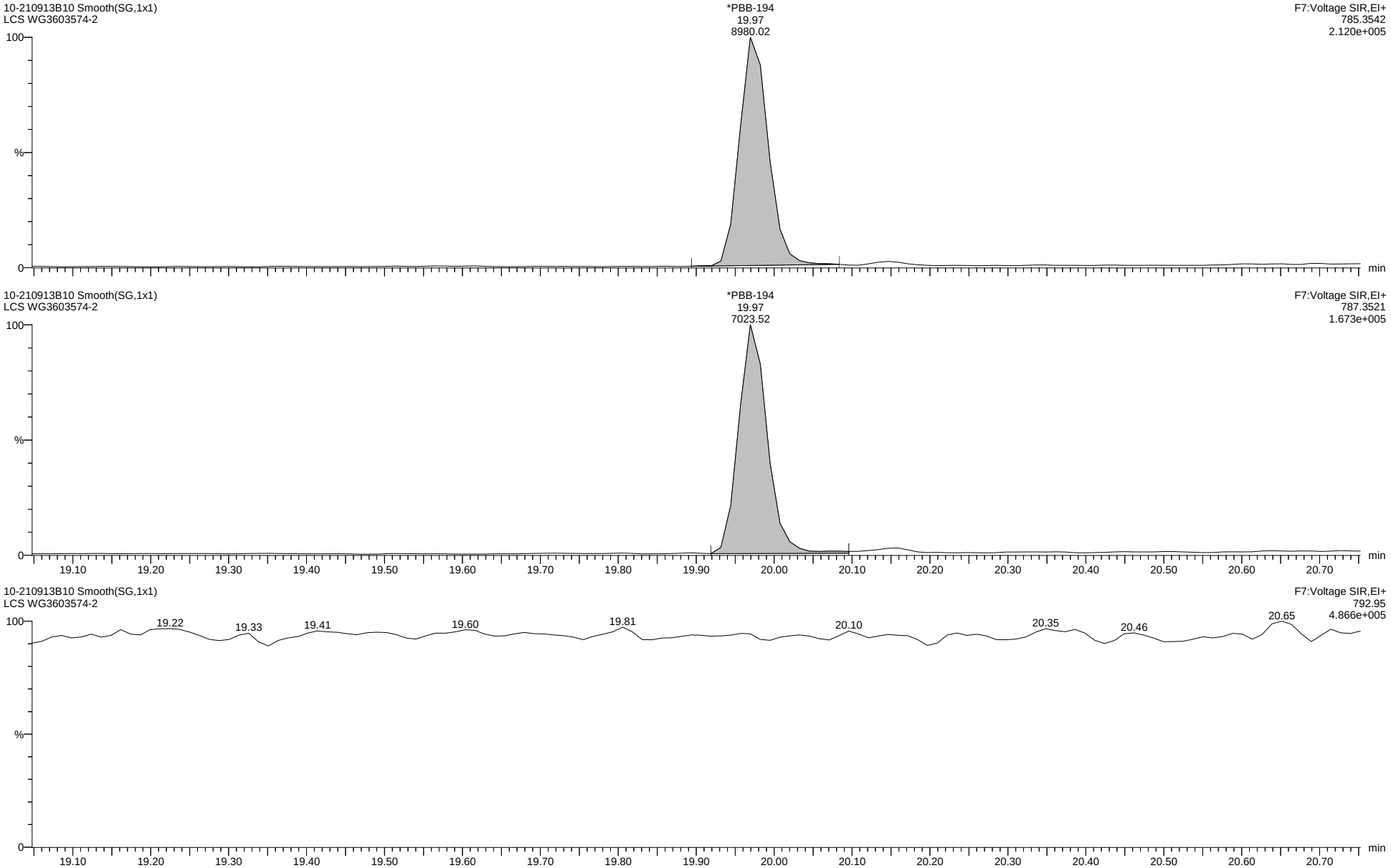

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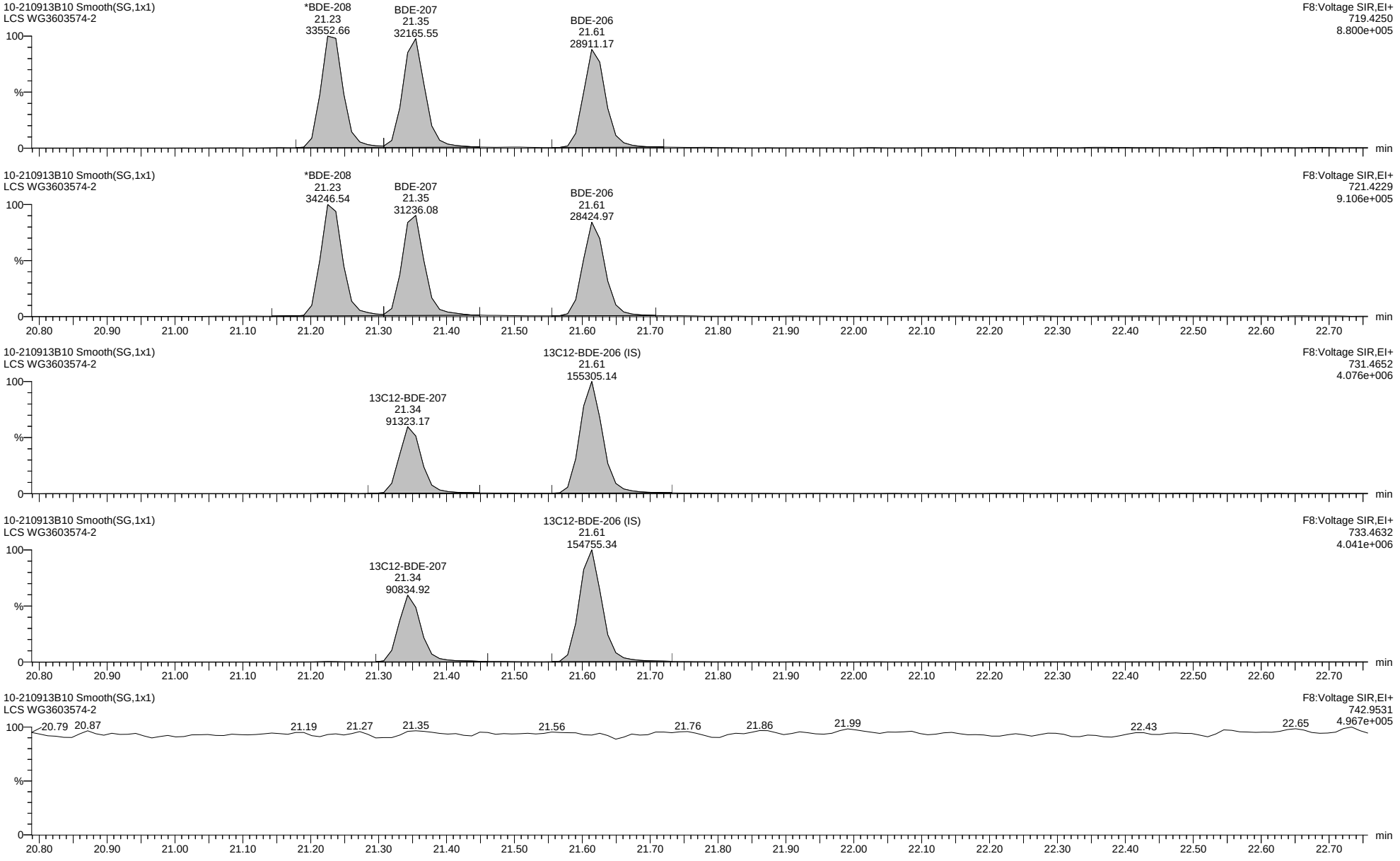

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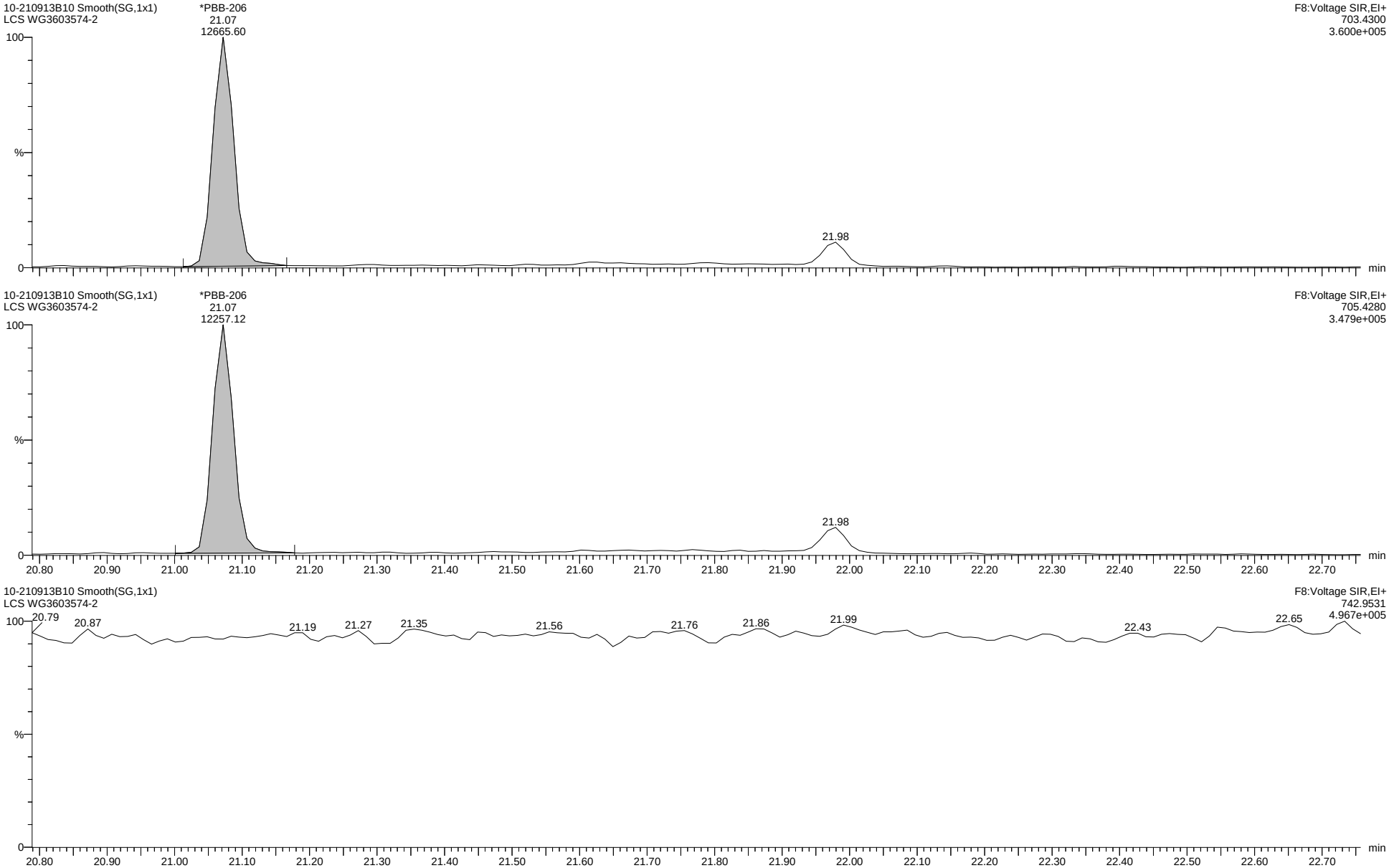

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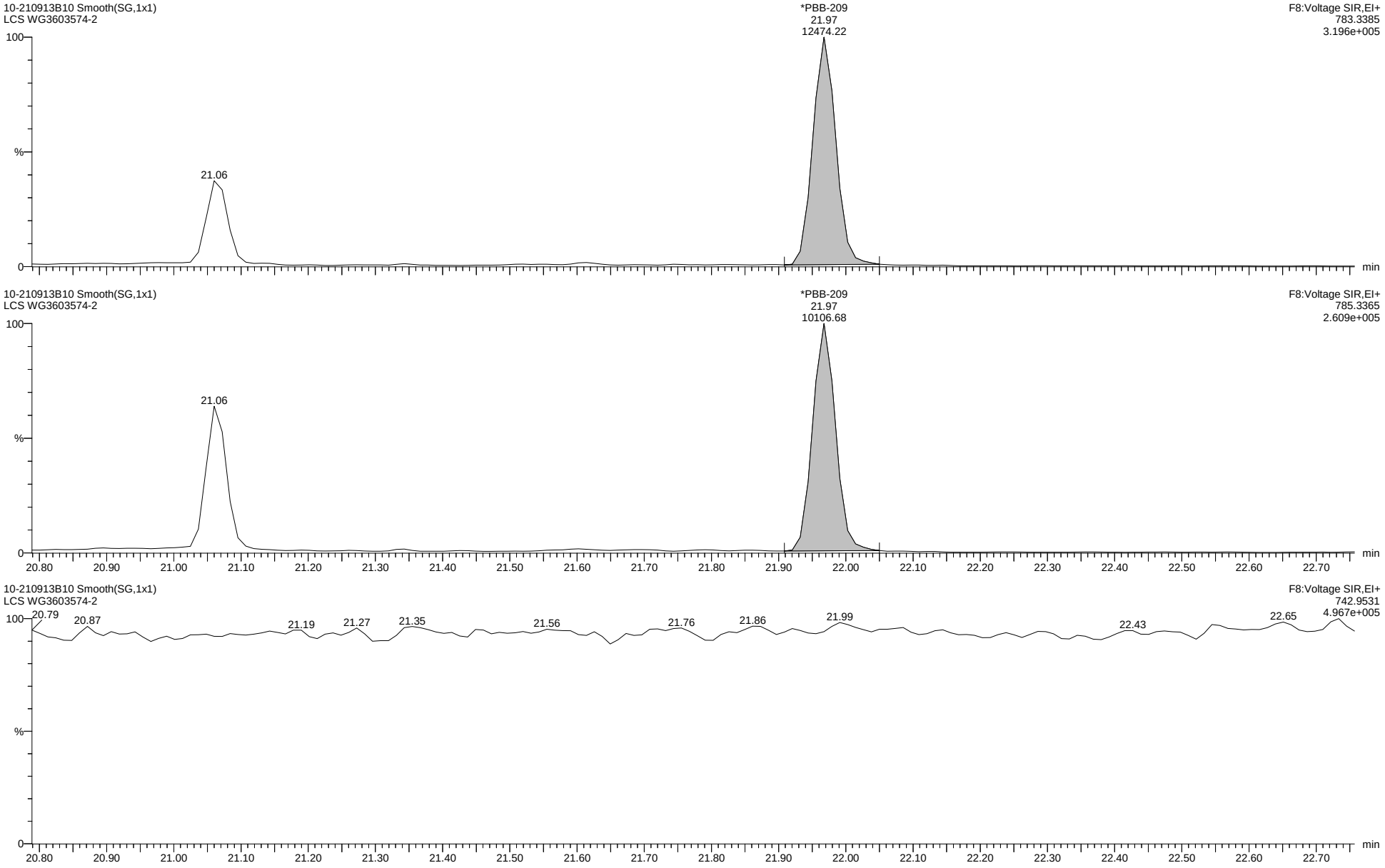

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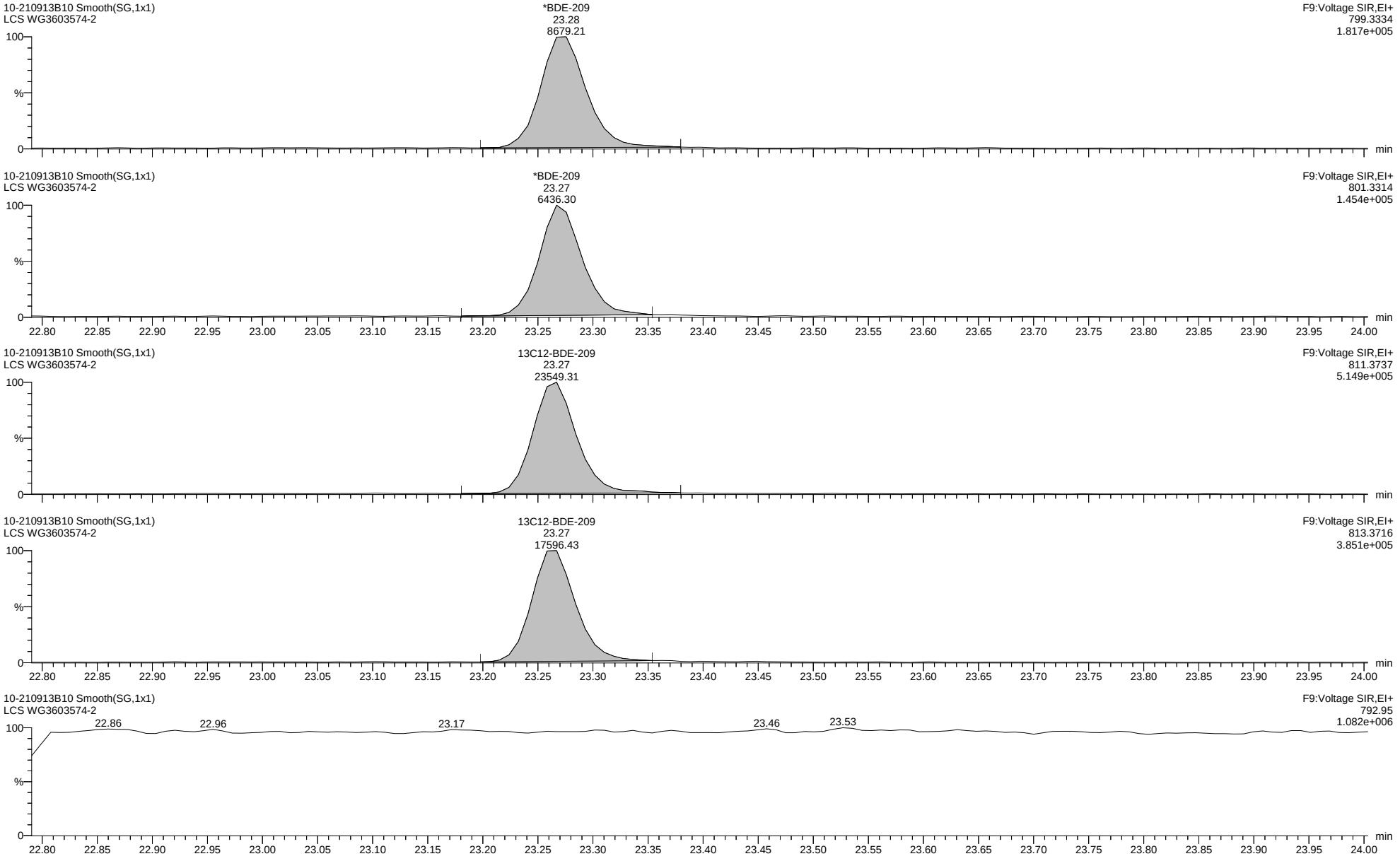

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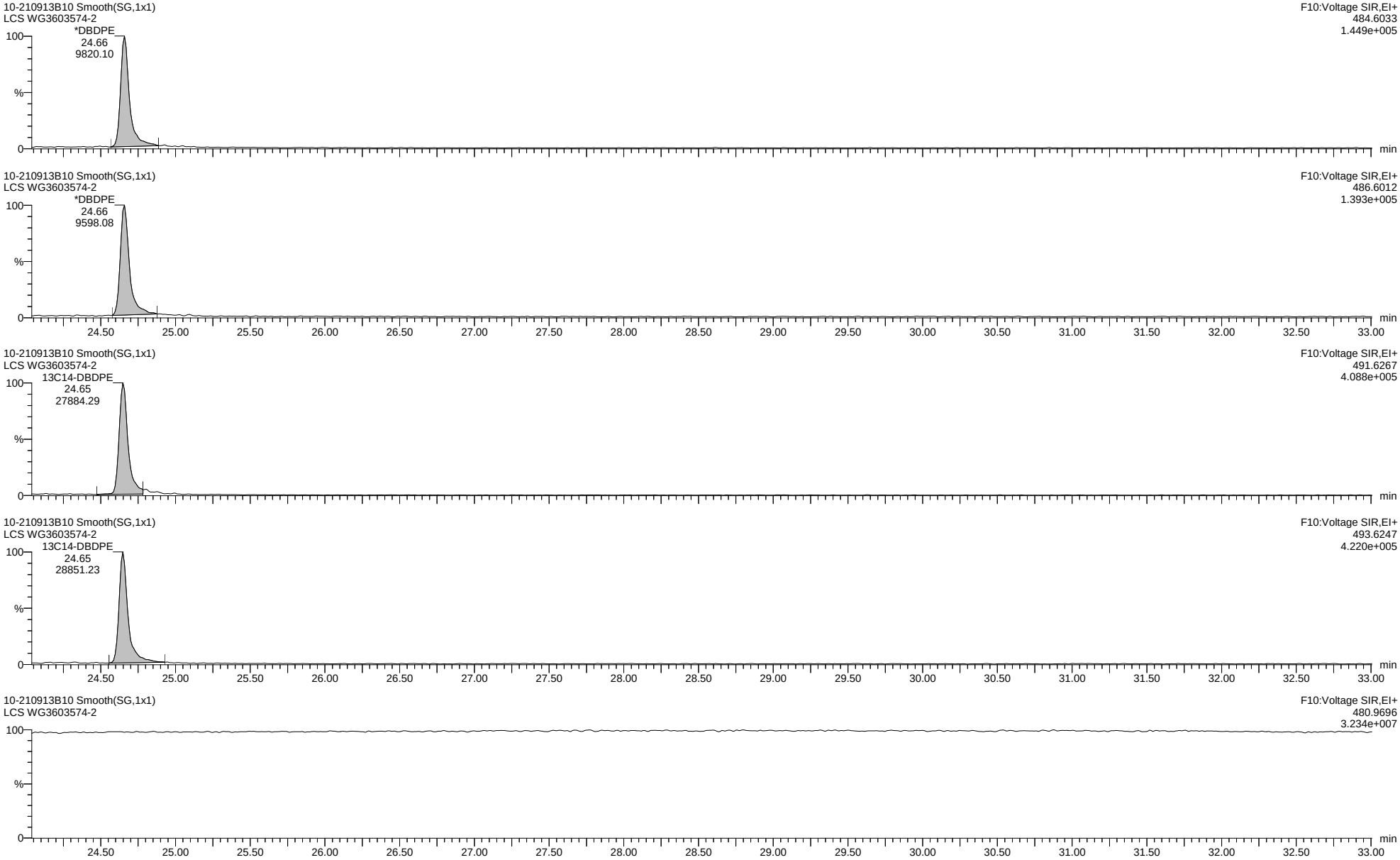

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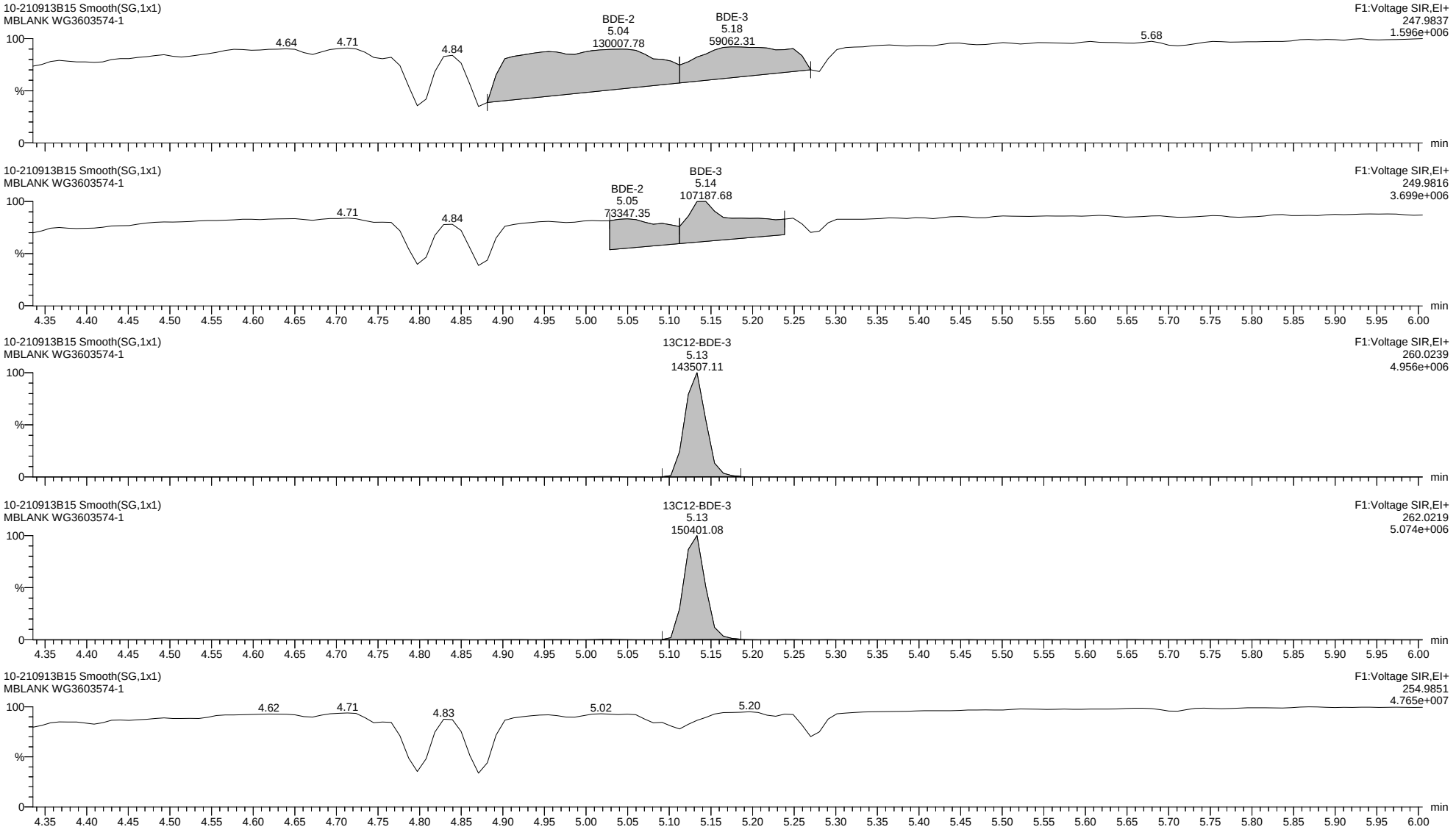

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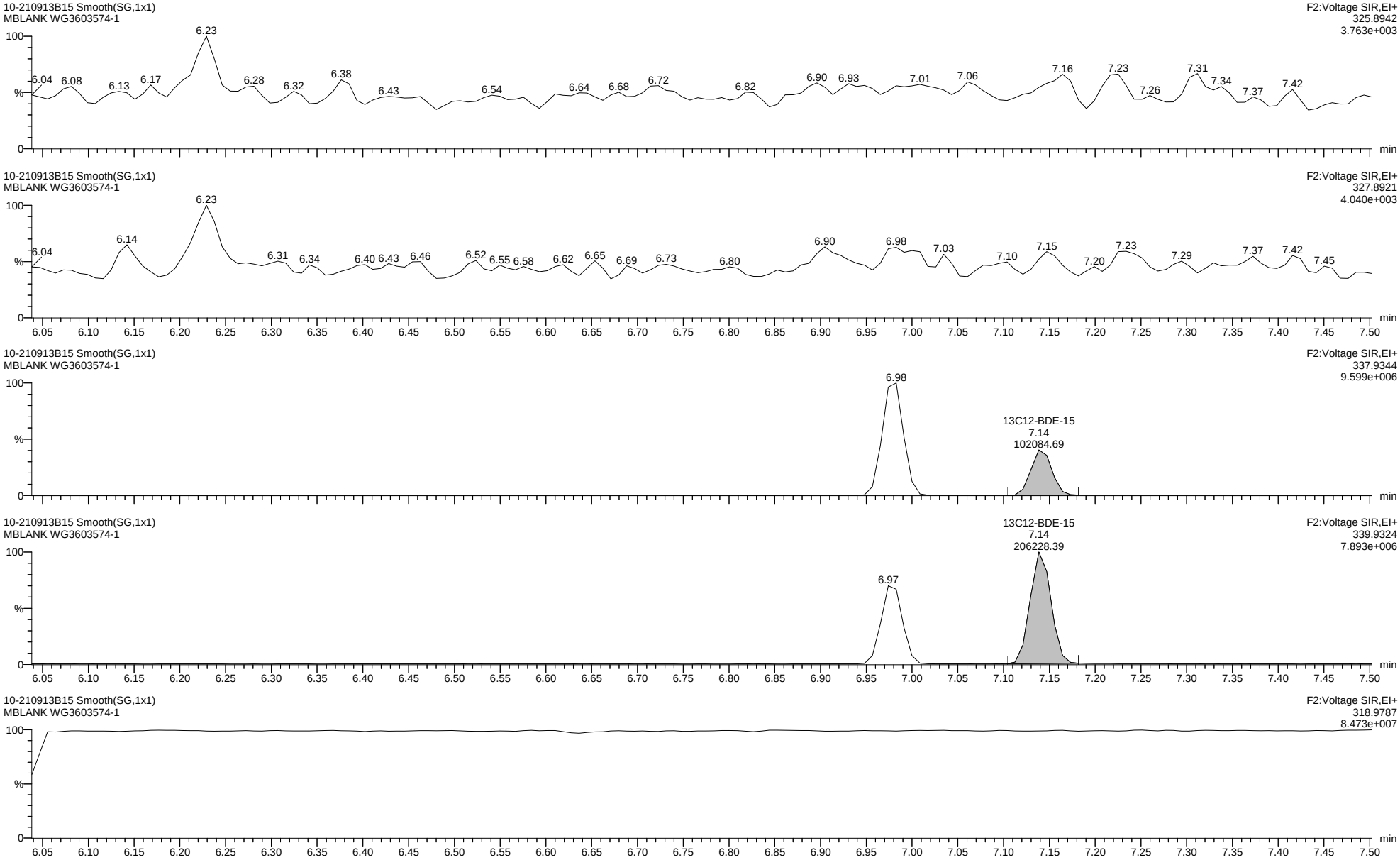

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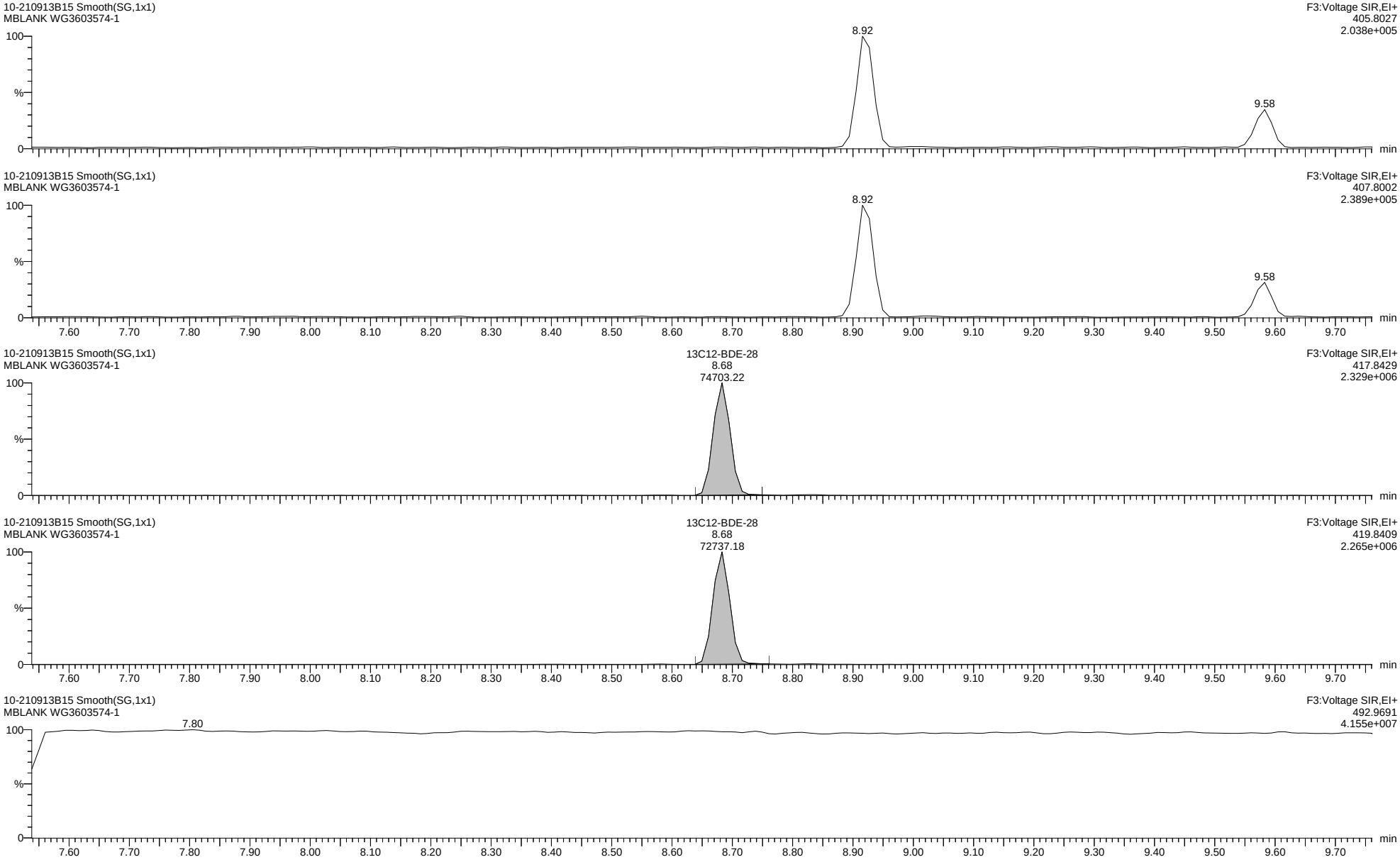

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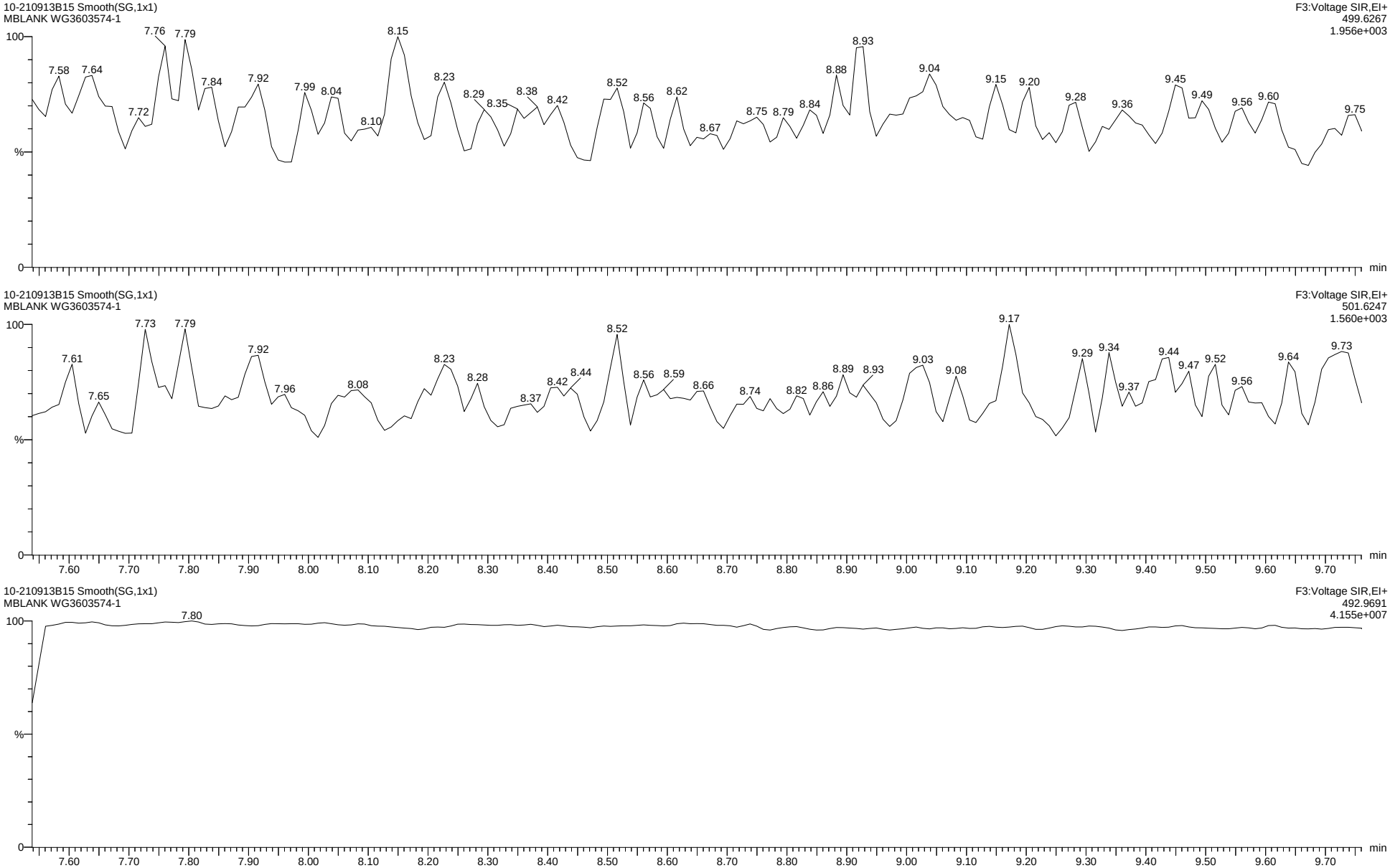

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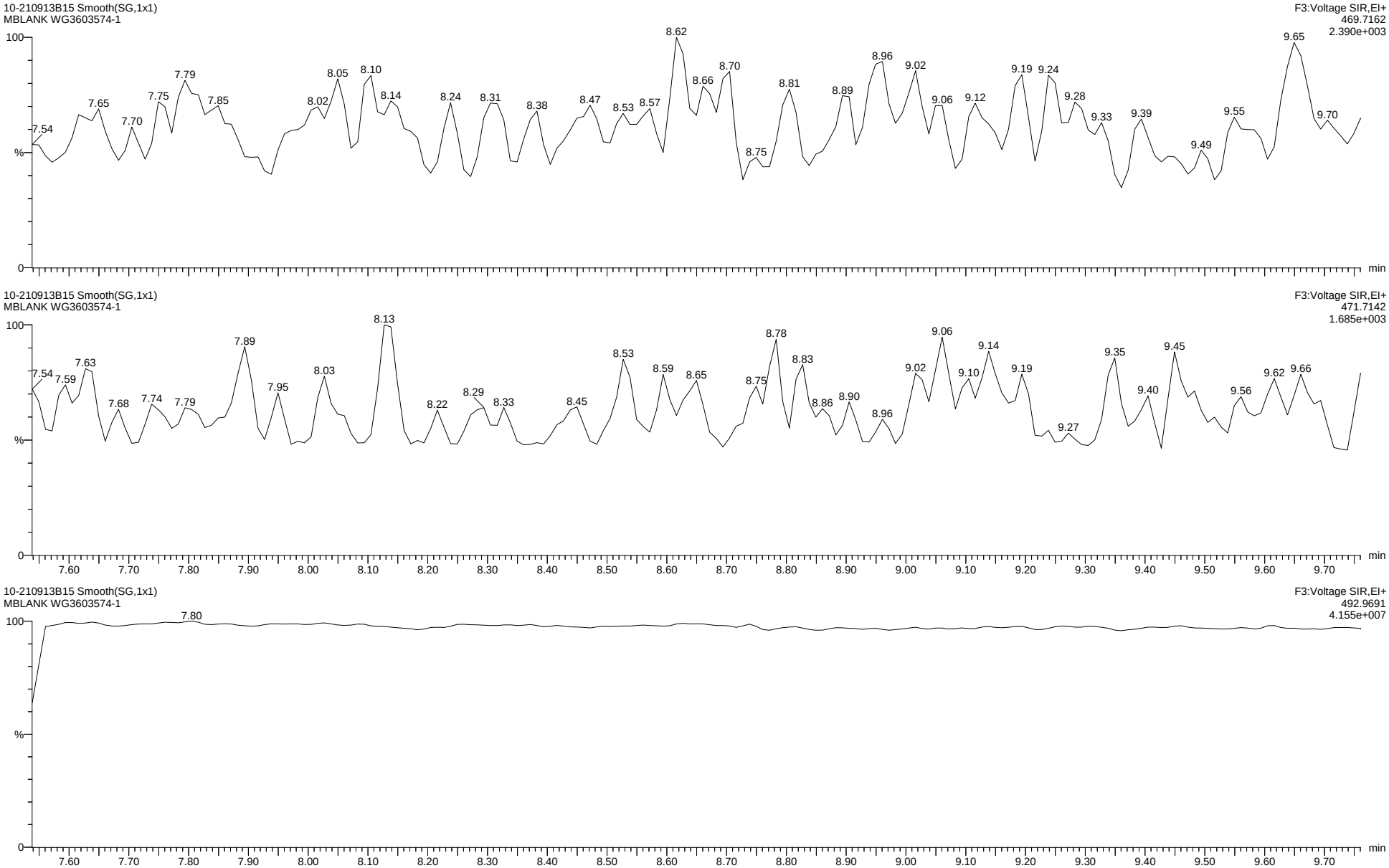

Quantify Sample Template Report **MassLynx MassLynx V4.1 SCN 901**

Dataset: I:\Organics Instrument\HIGHRES GCMS Completed Results Files\HR-10\2021\2109\10-210913B-Q1-PBDE.qld

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Printed: Friday, September 17, 2021 10:41:58 Eastern Daylight Time

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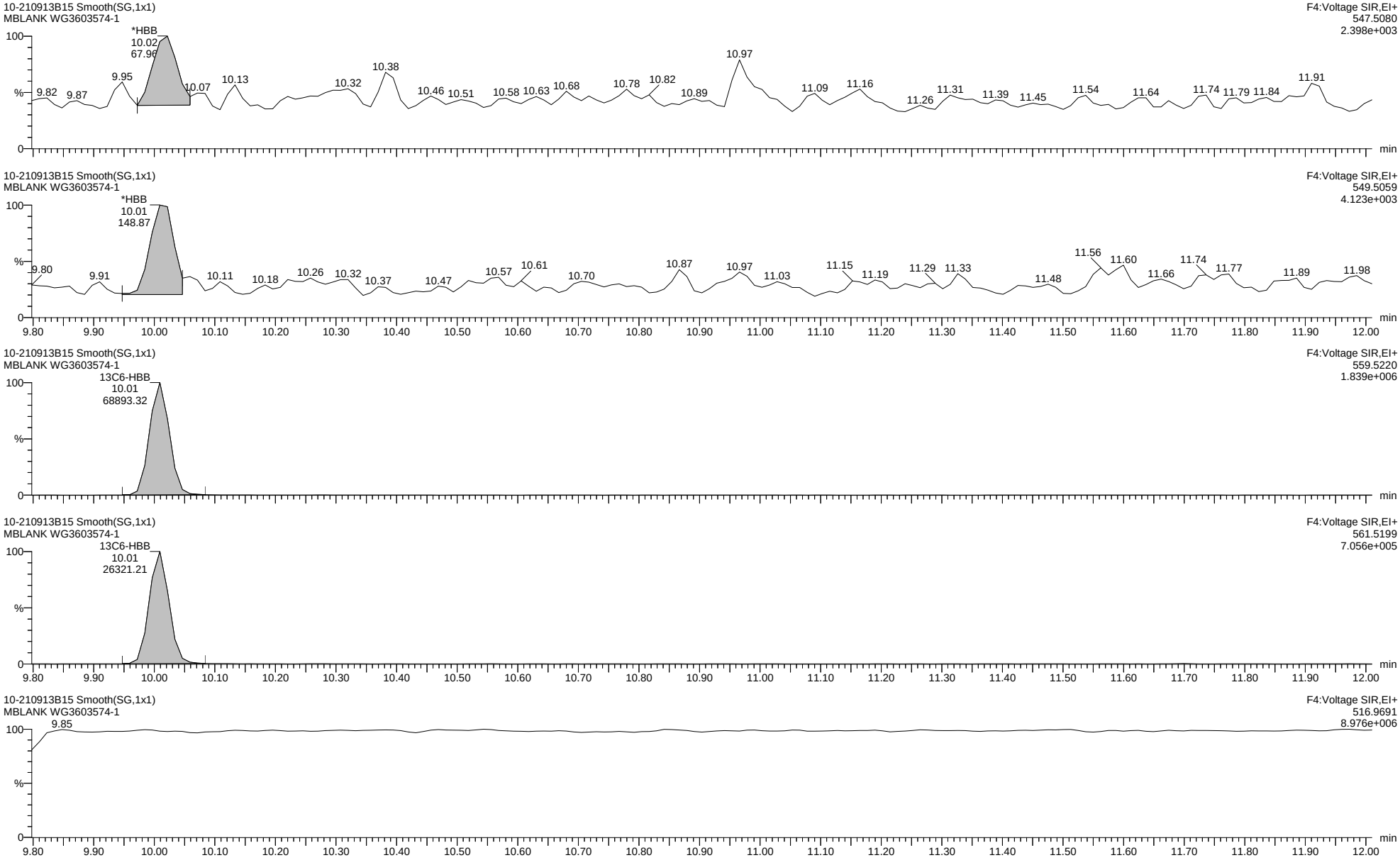

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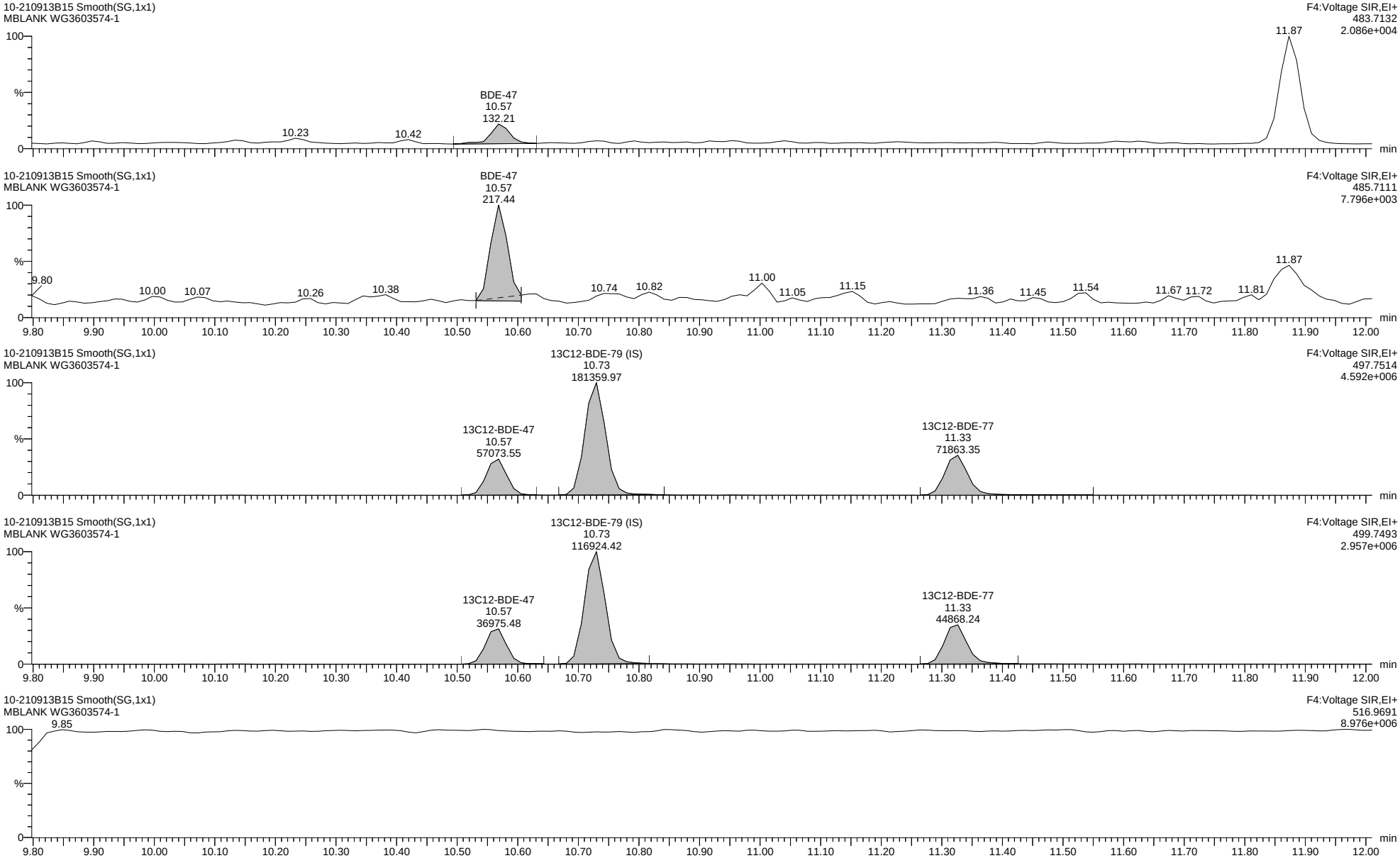

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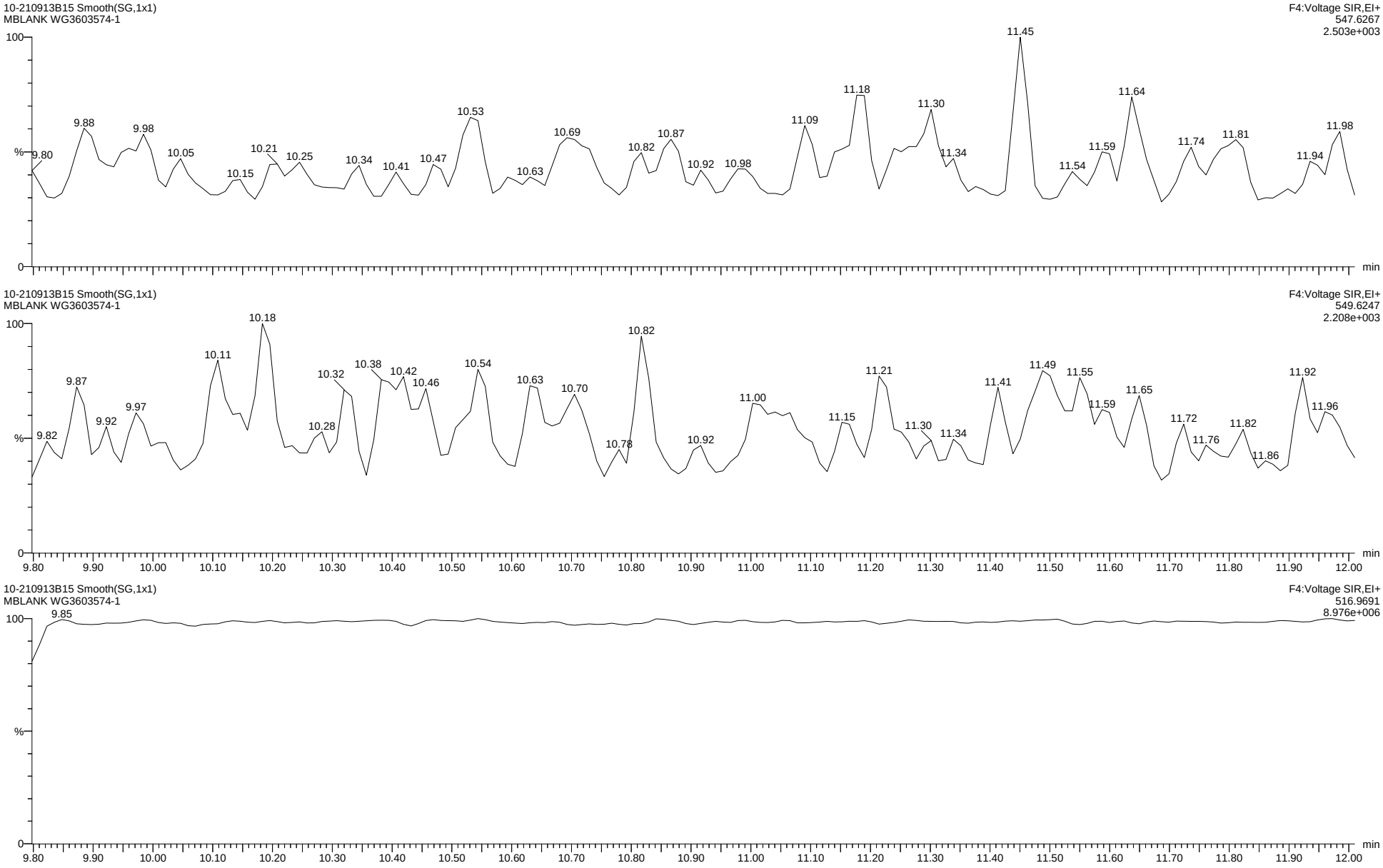

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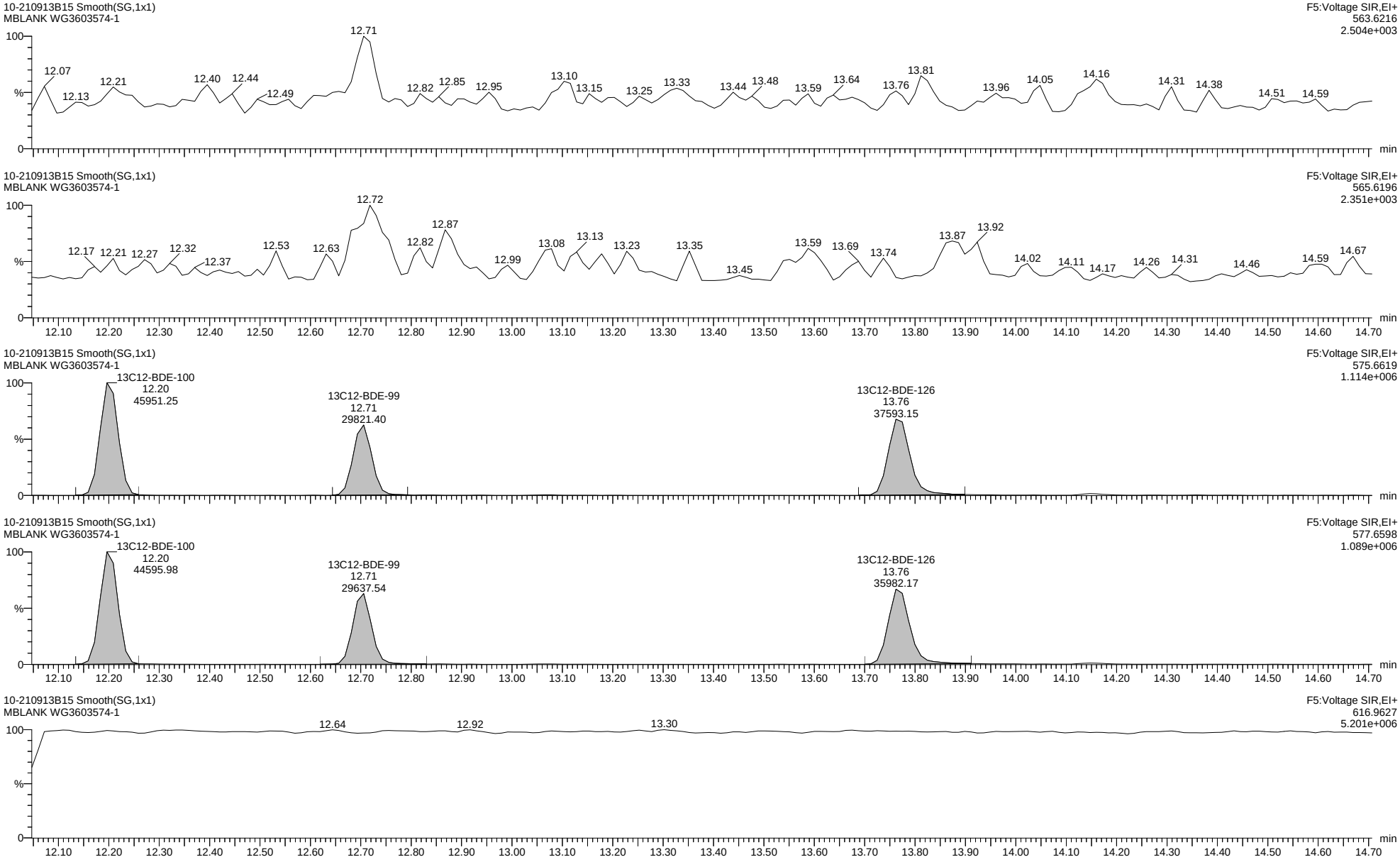

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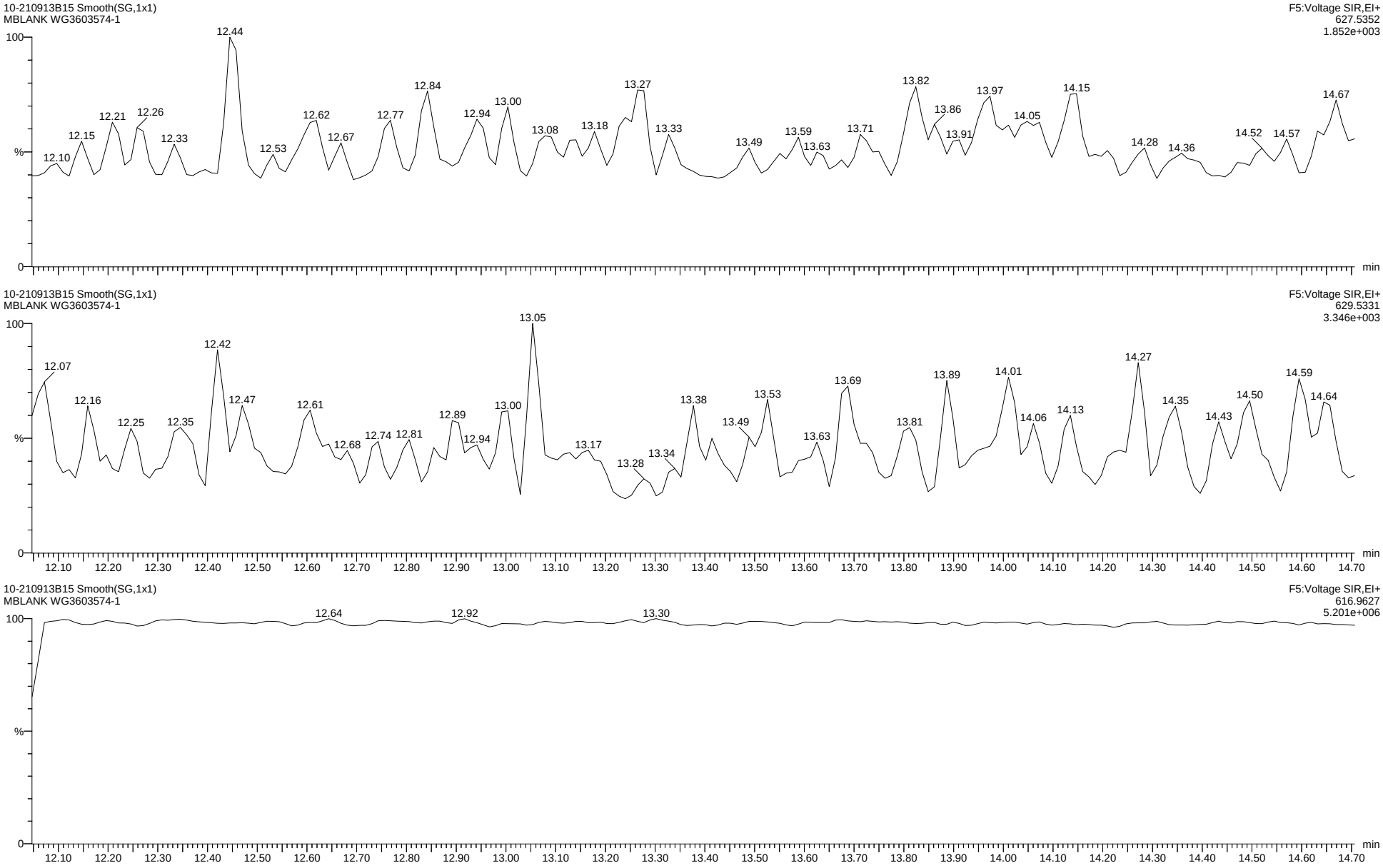

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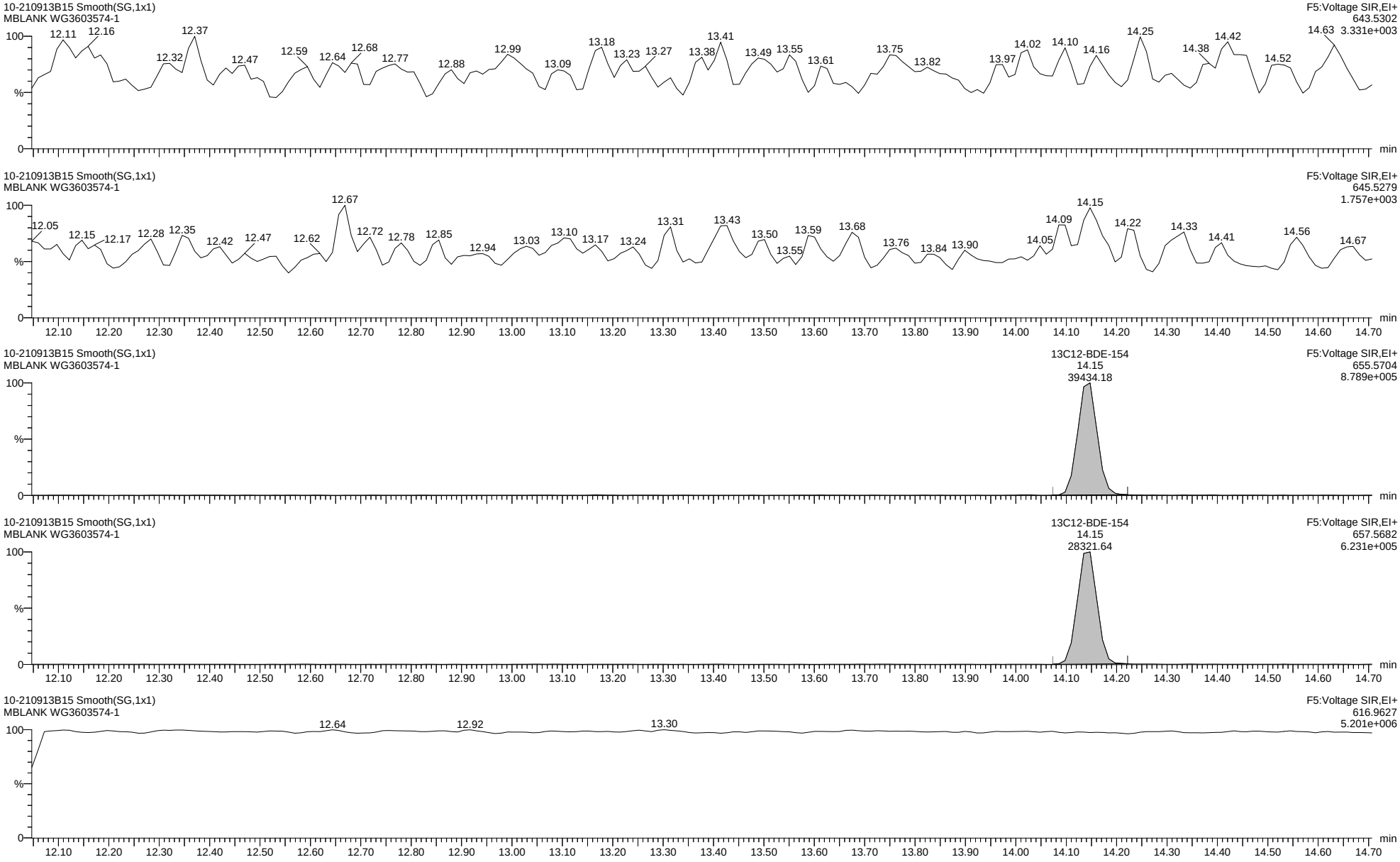

Quantify Sample Template Report **MassLynx MassLynx V4.1 SCN 901**

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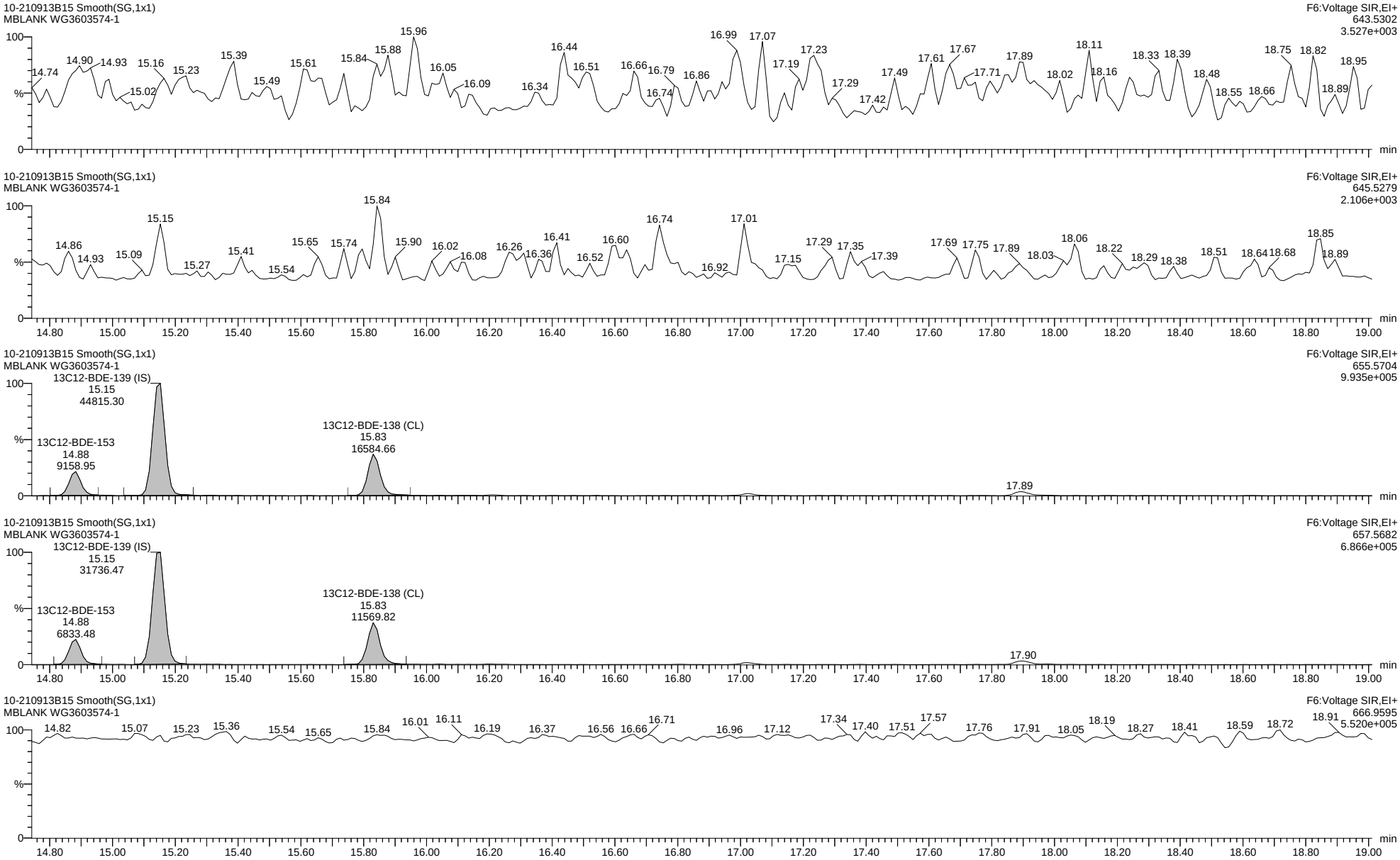

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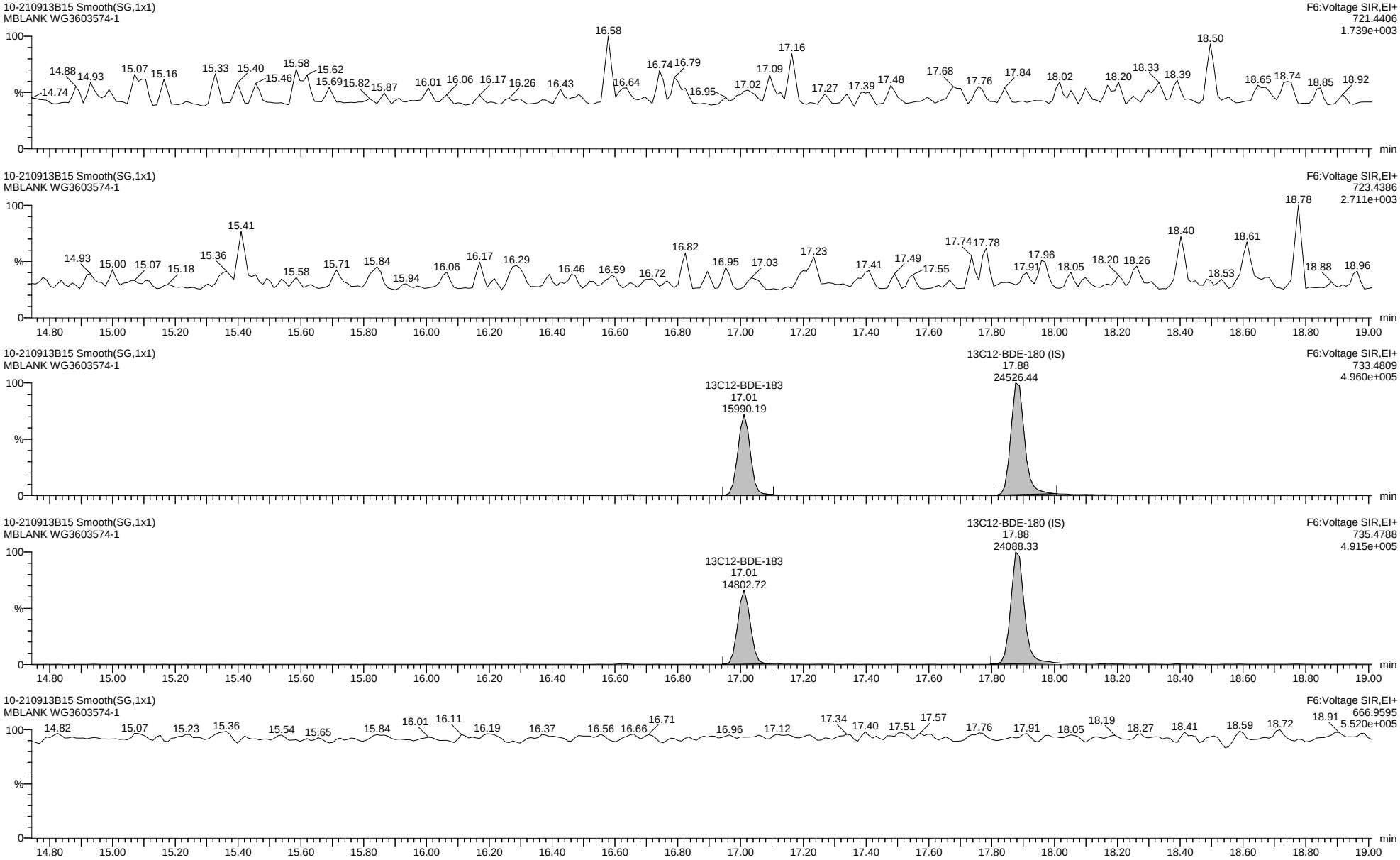

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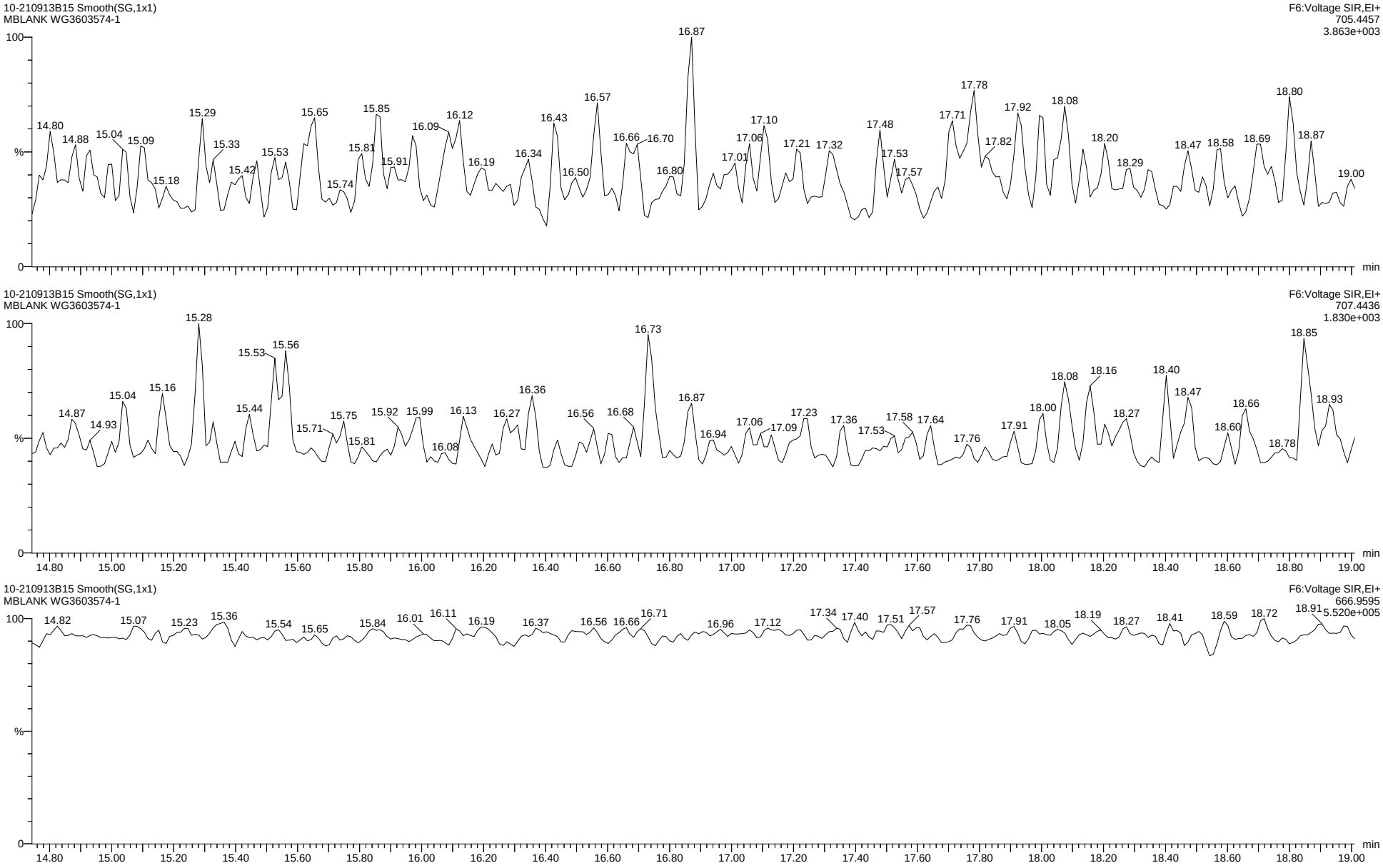

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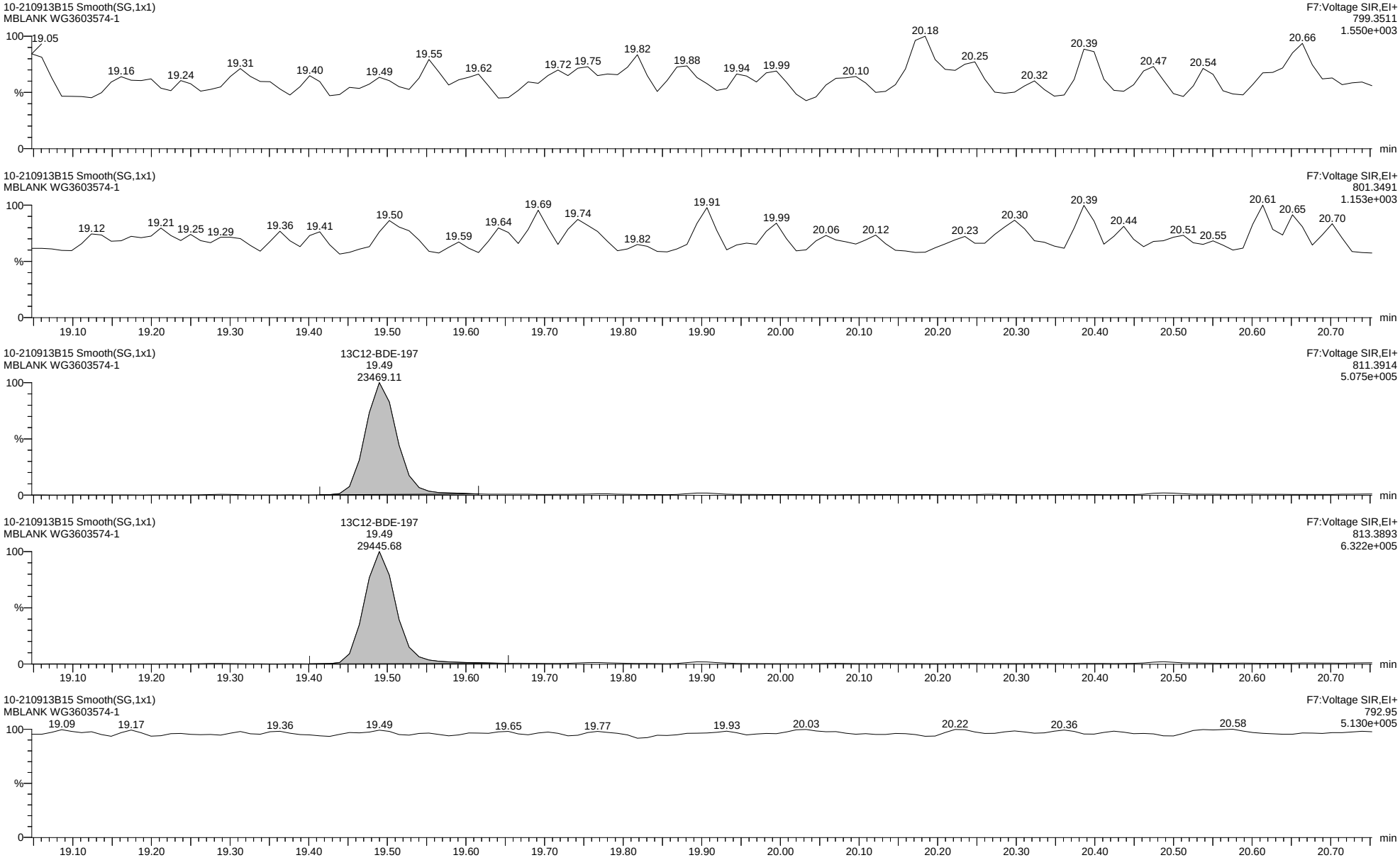

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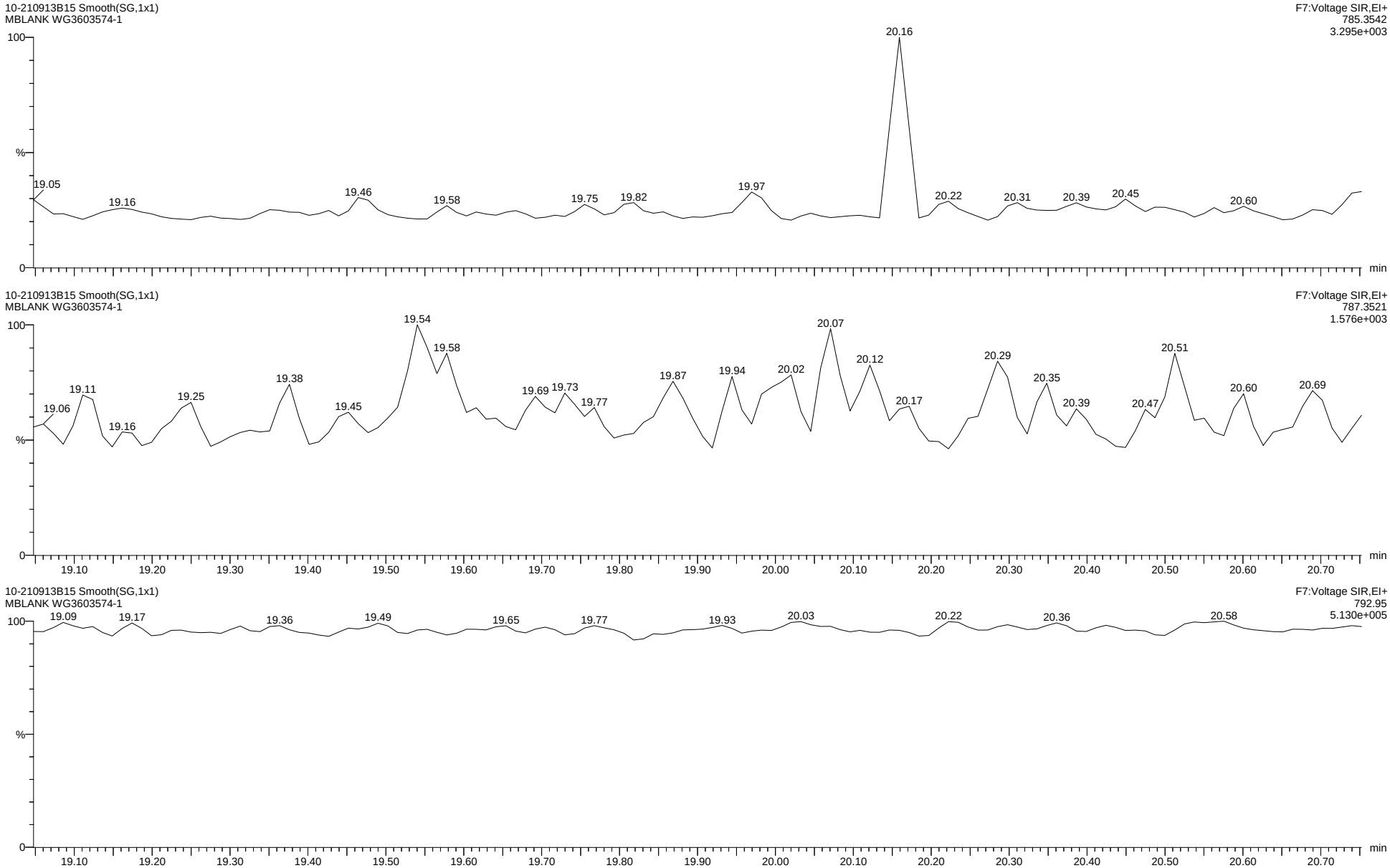

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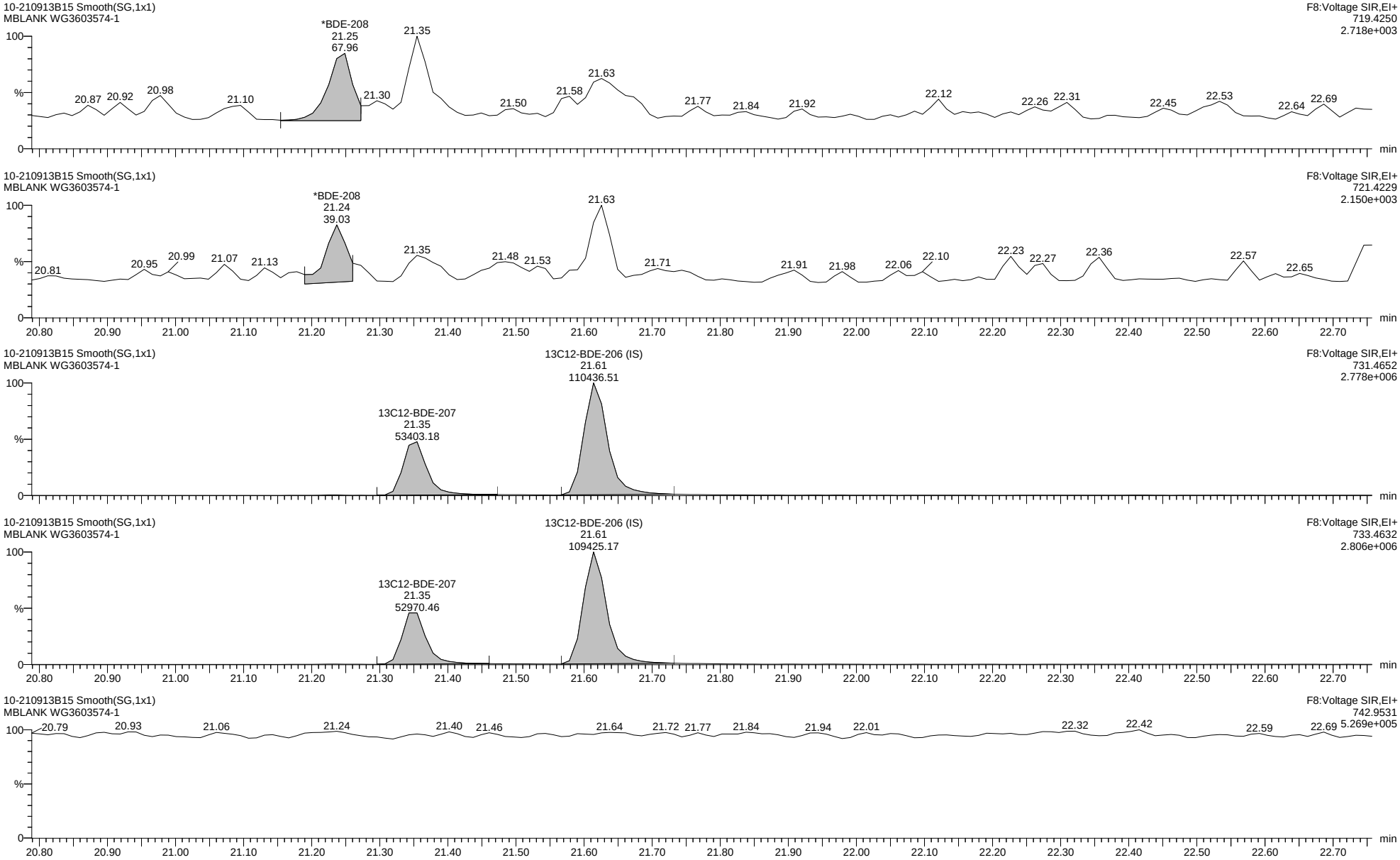

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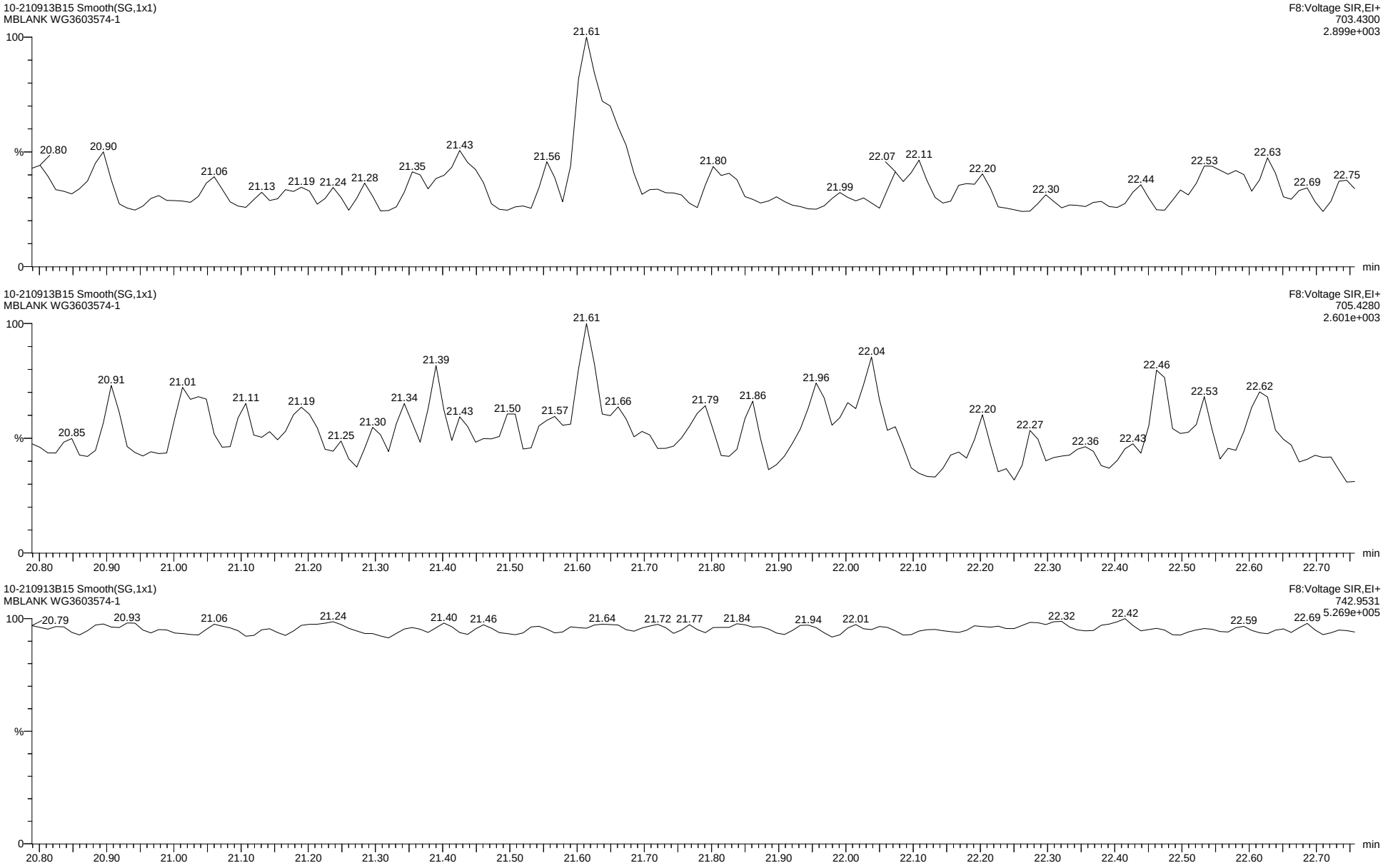

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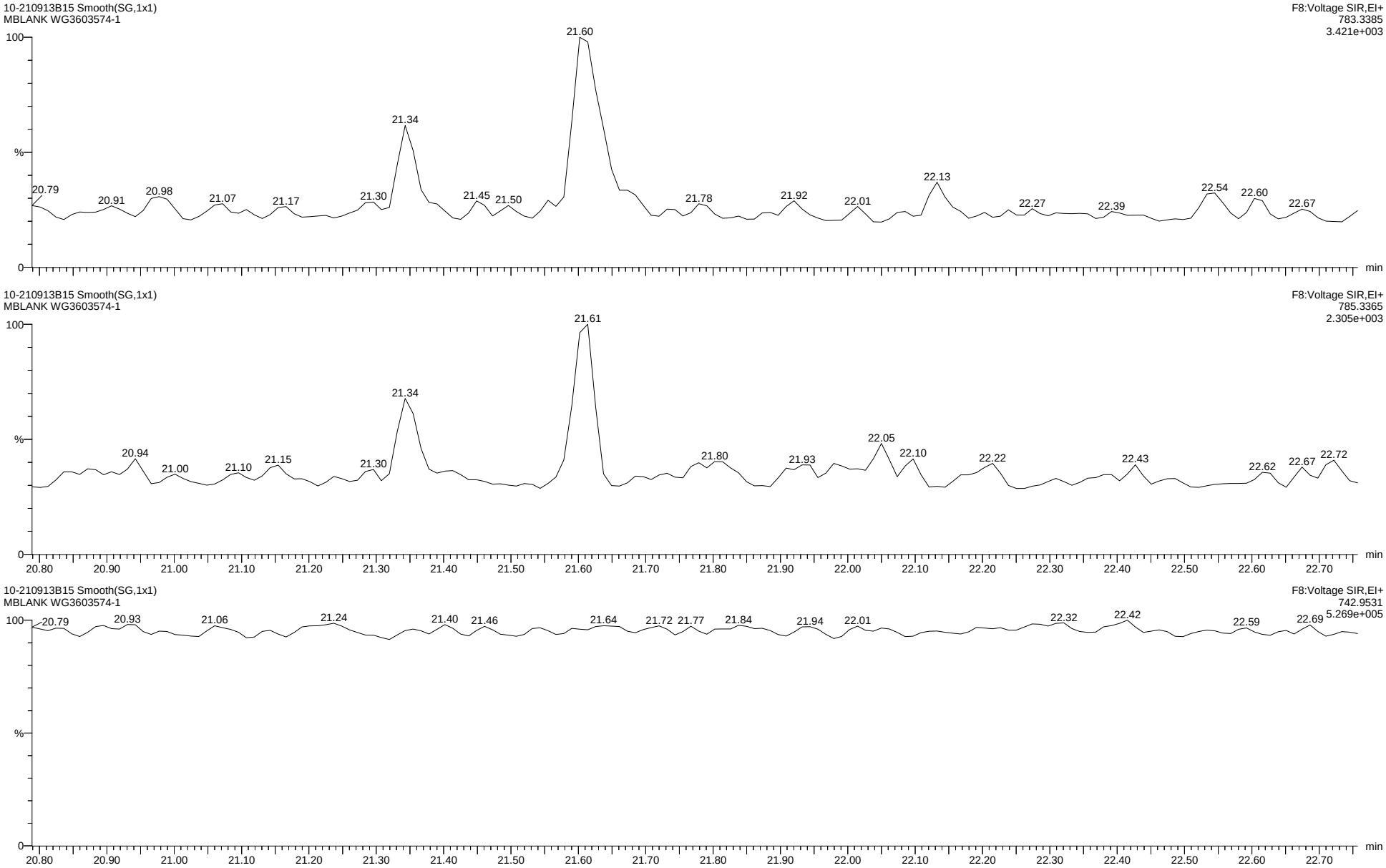

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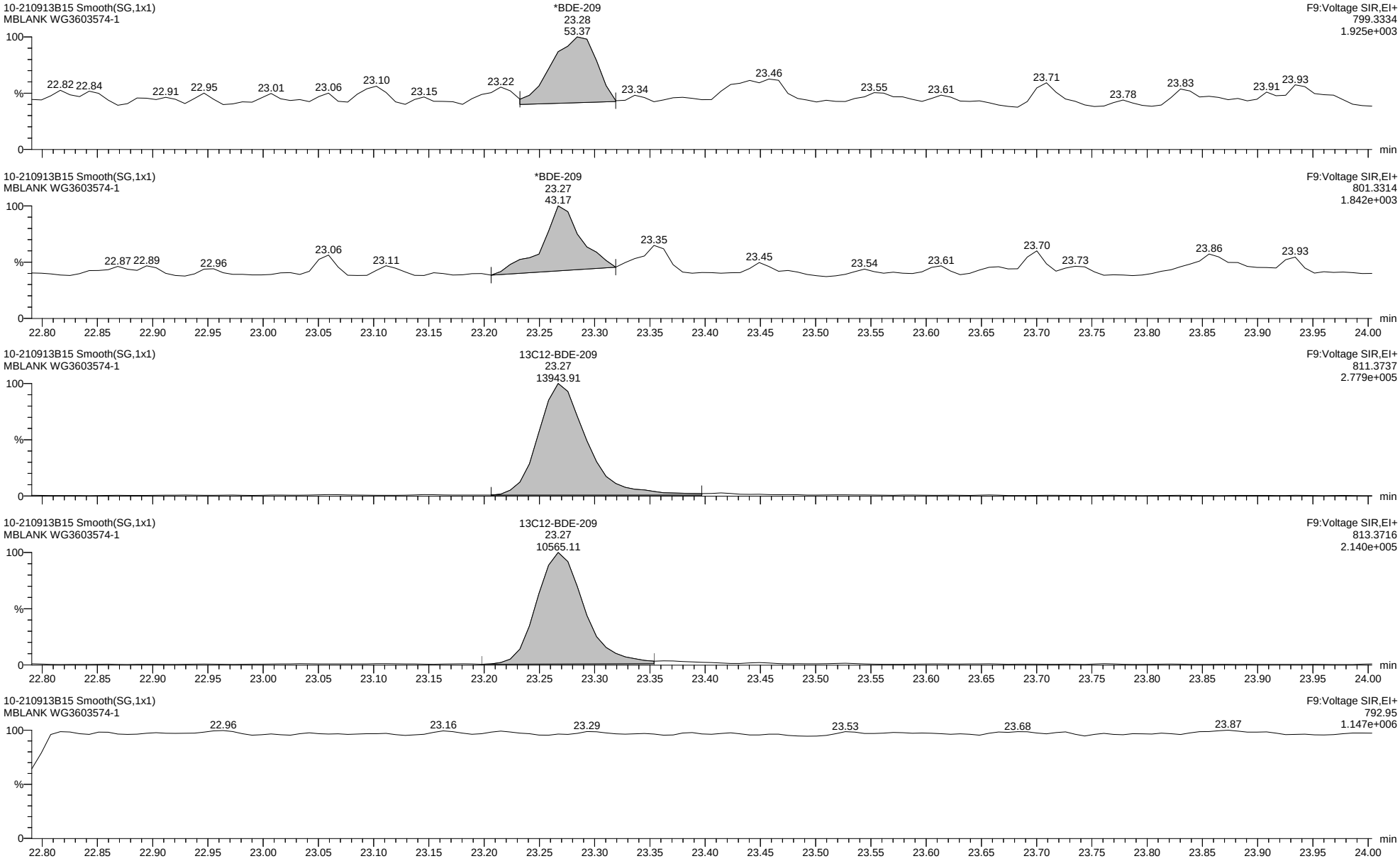

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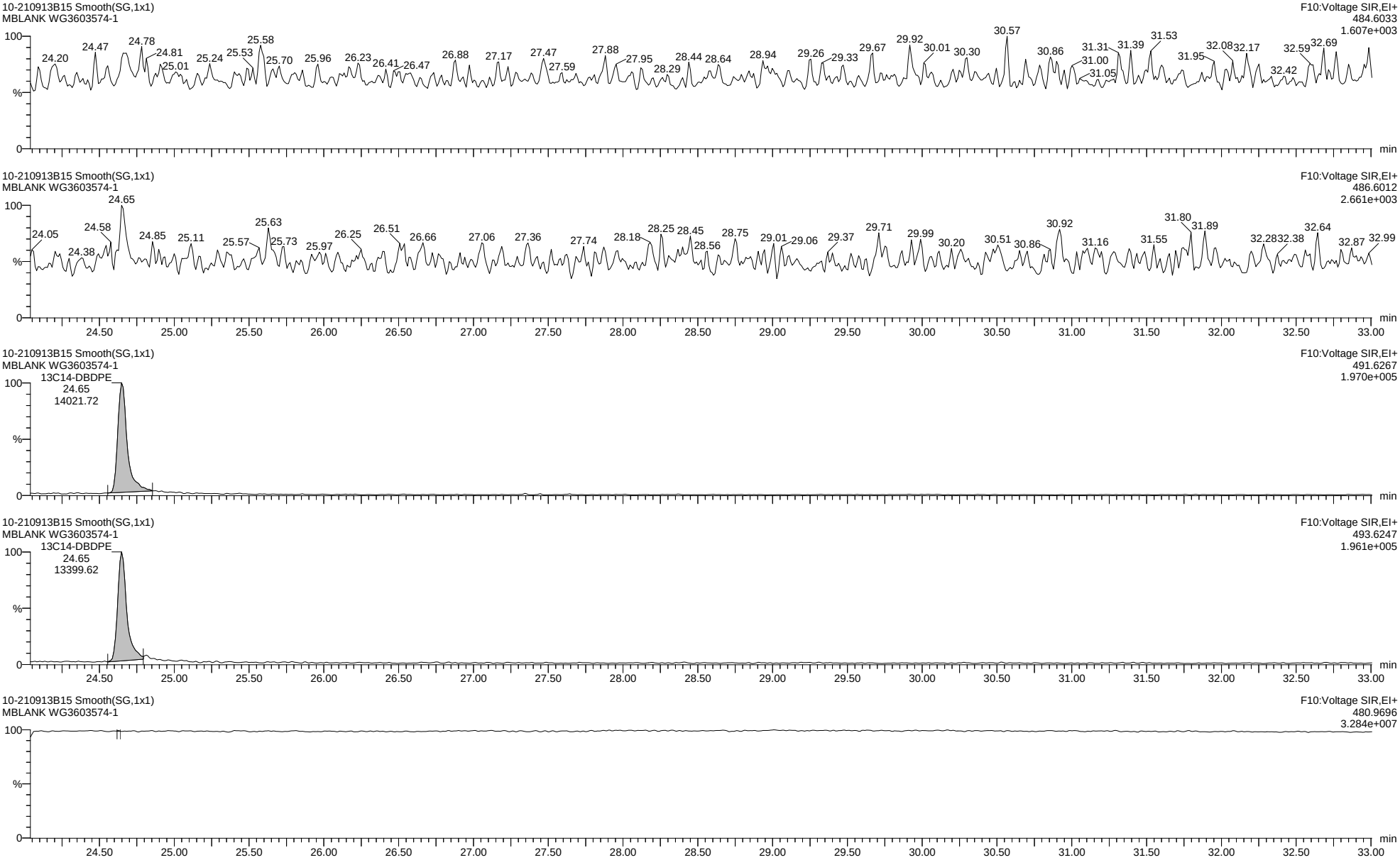

Quantify Sample Template Report **MassLynx MassLynx V4.1 SCN 901**

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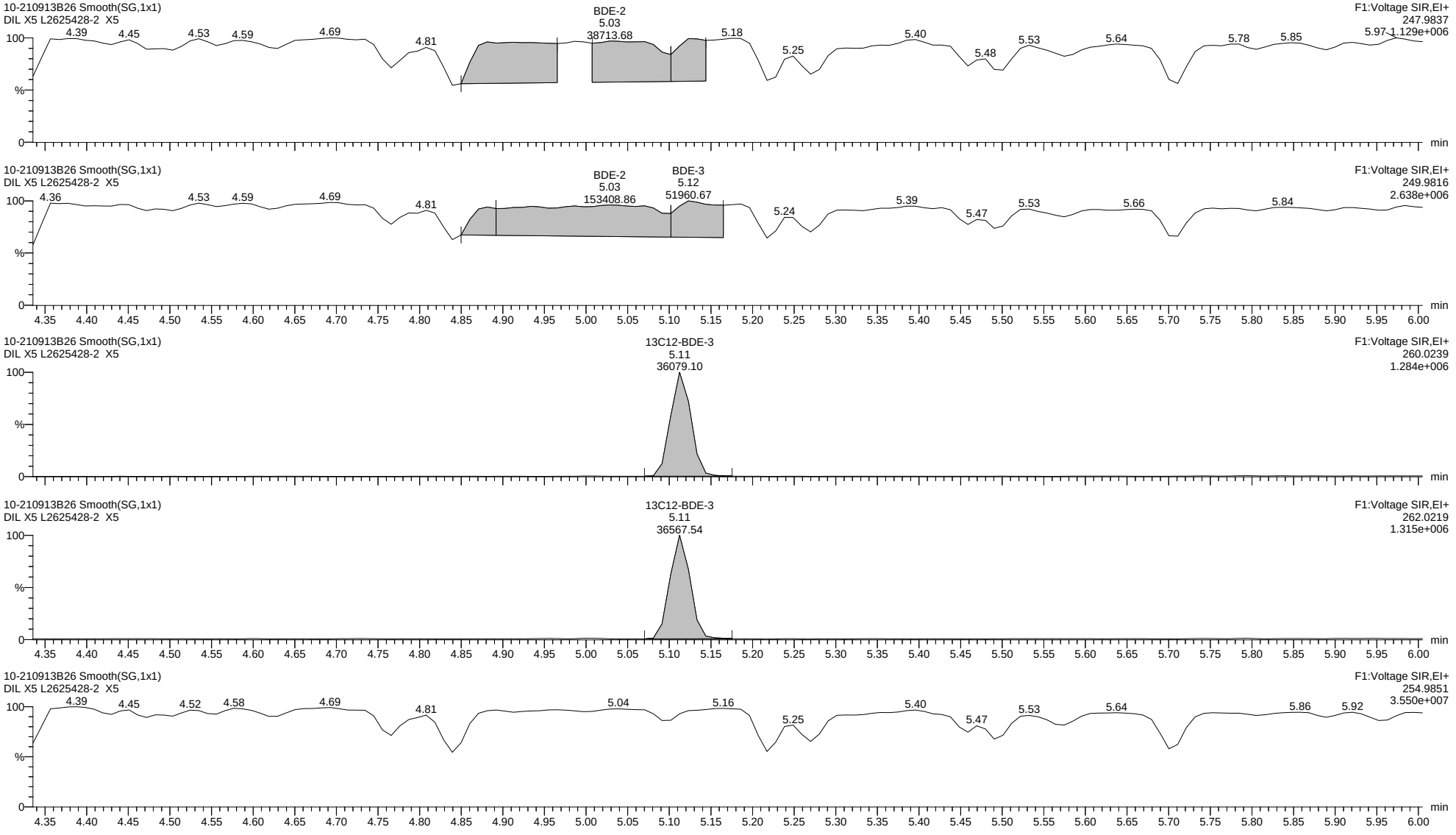

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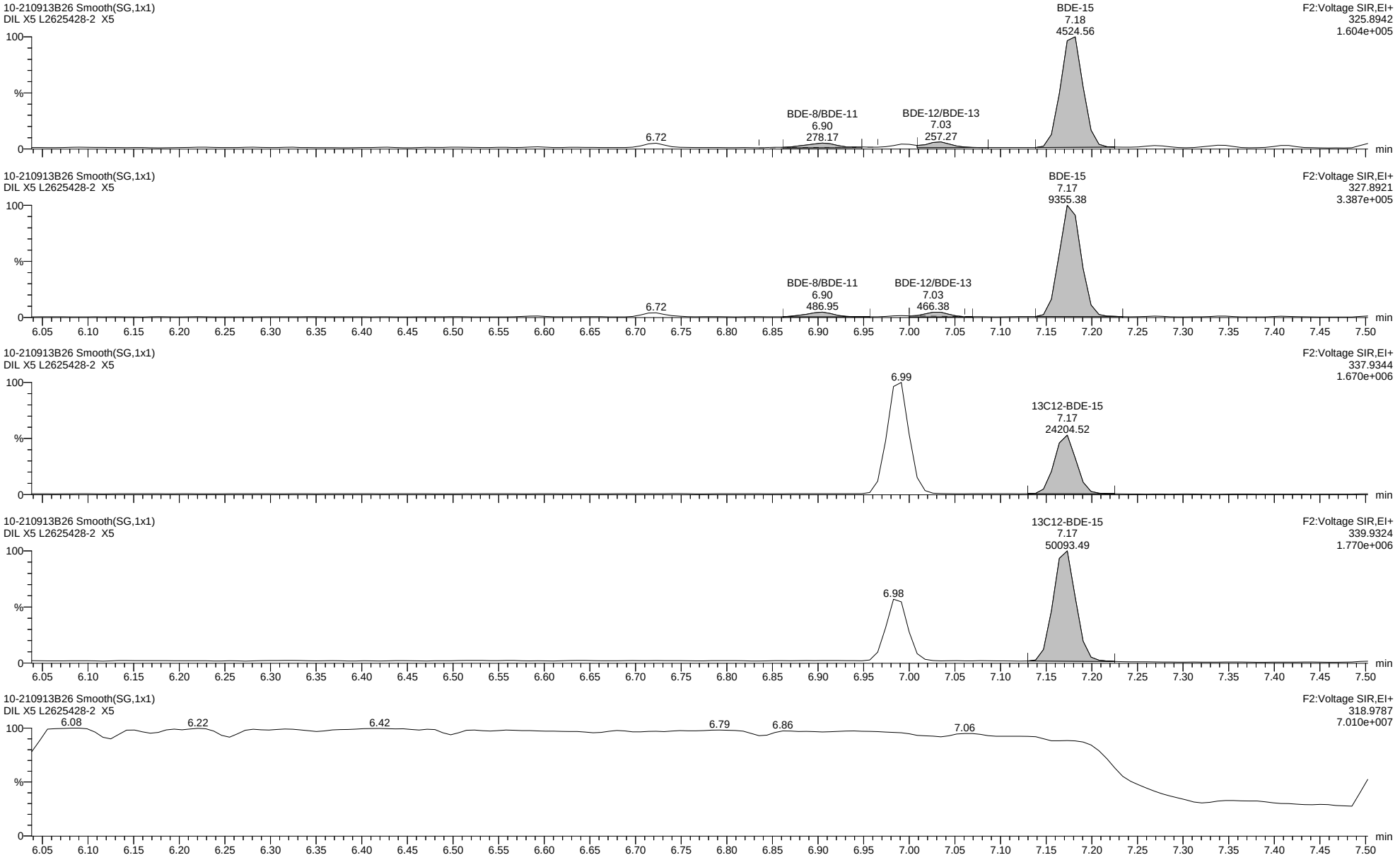

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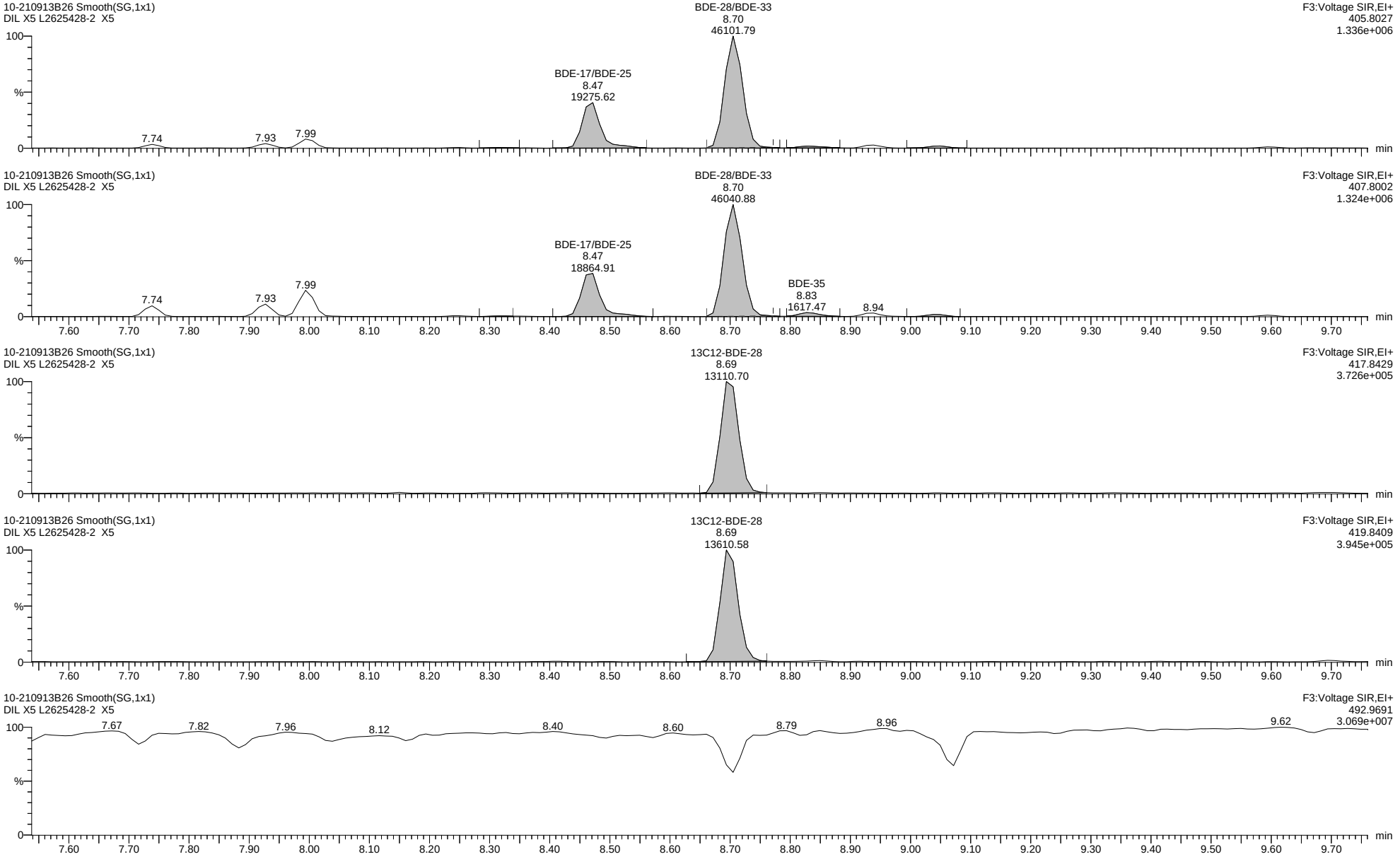

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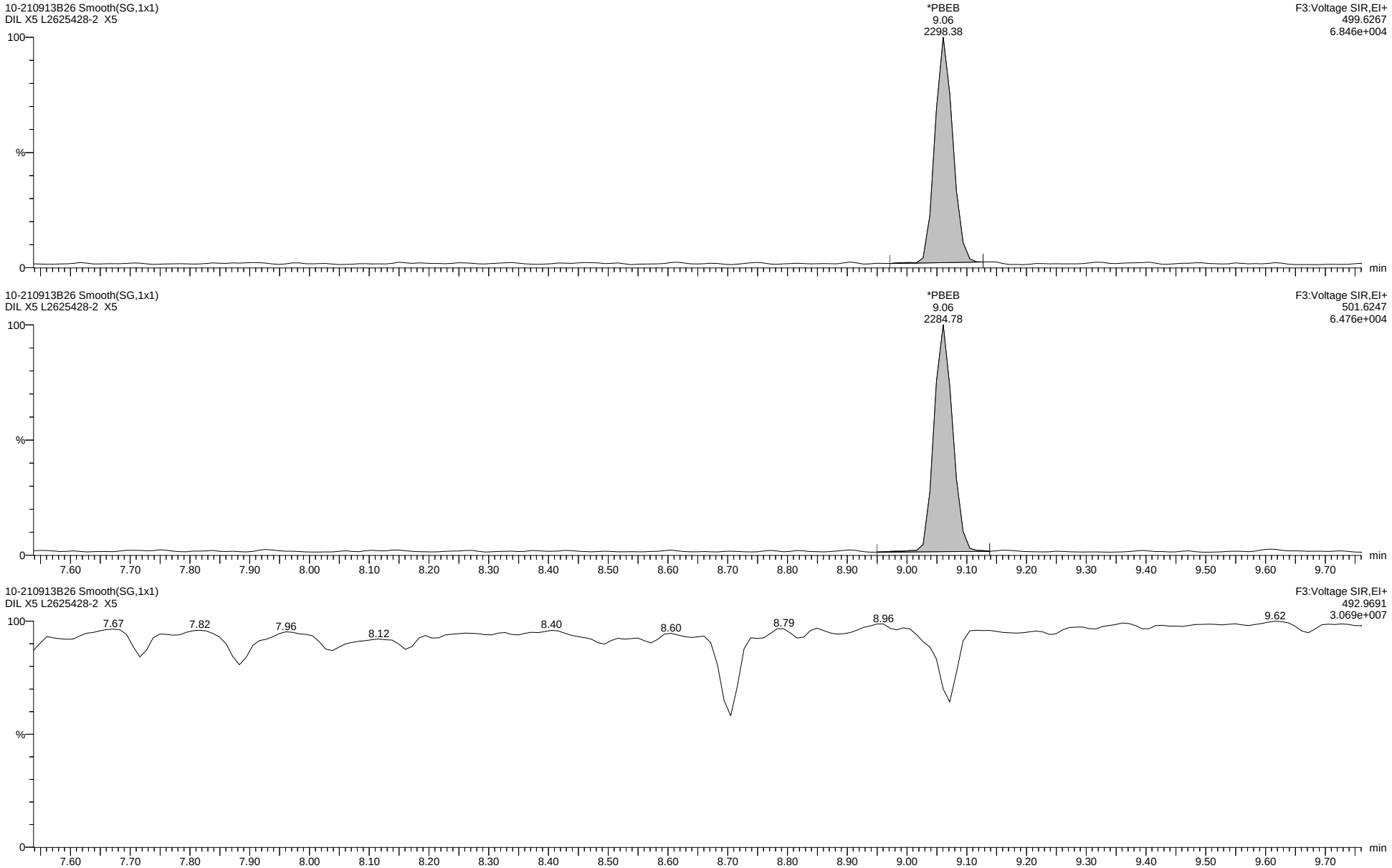

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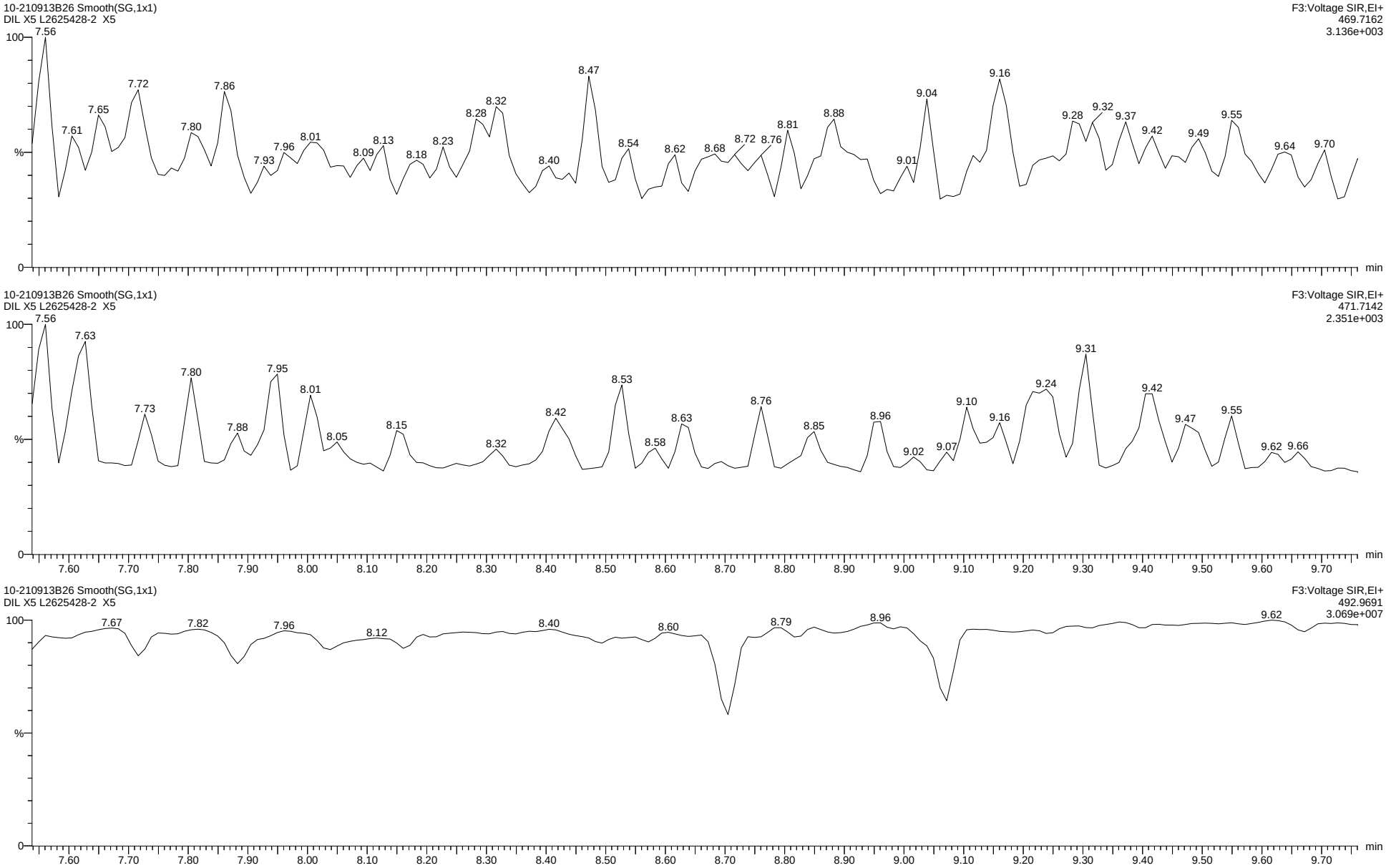

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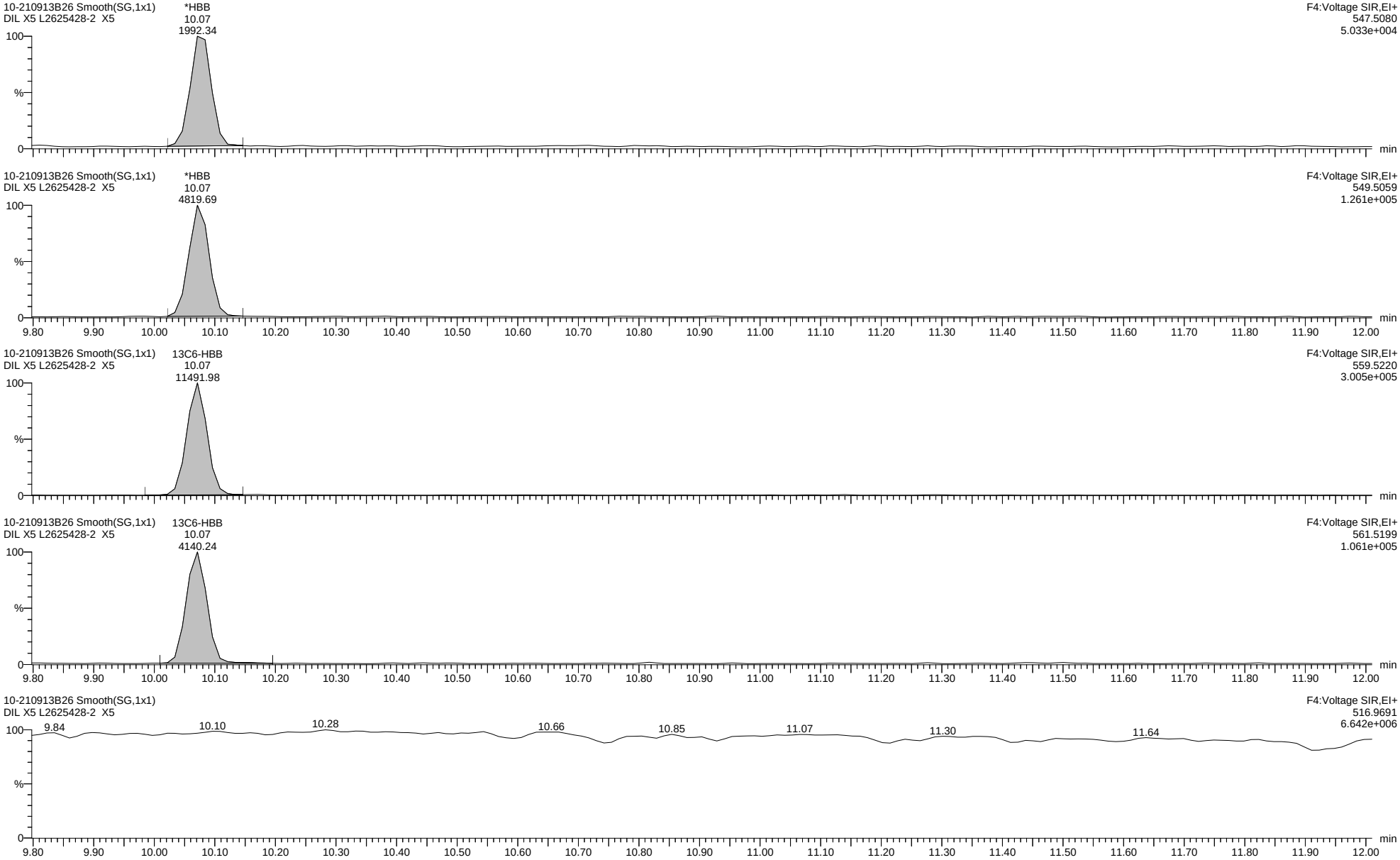

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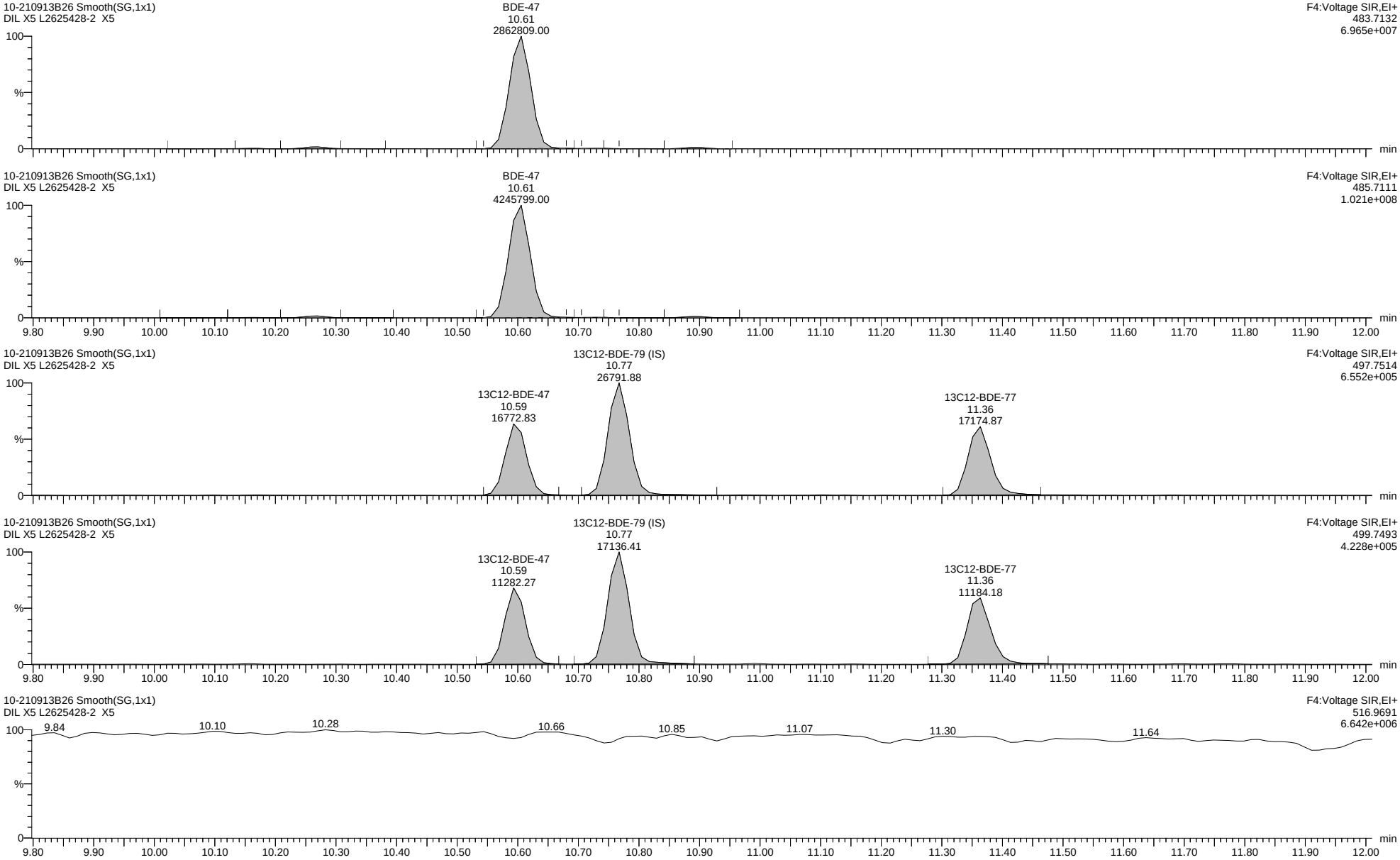

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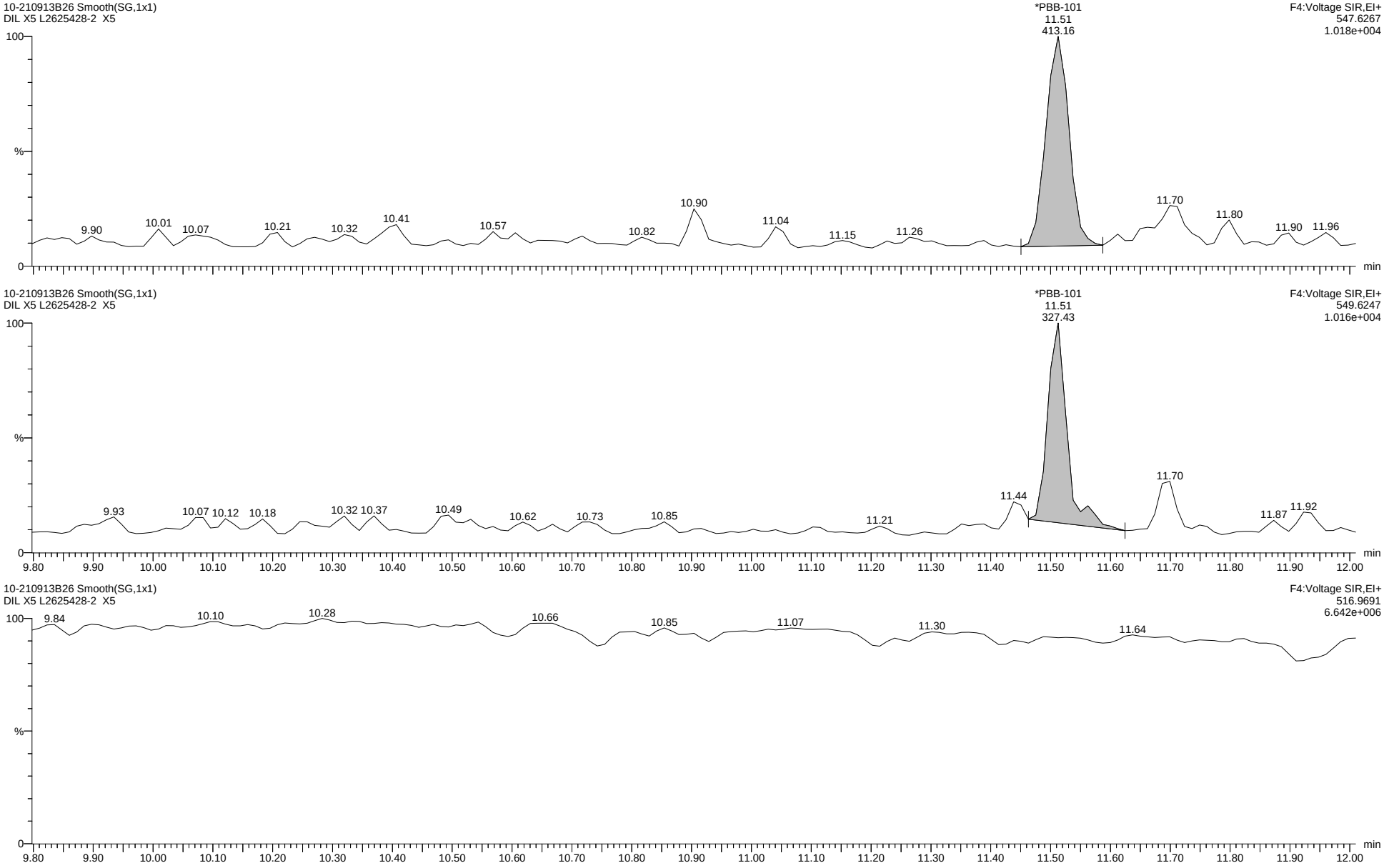

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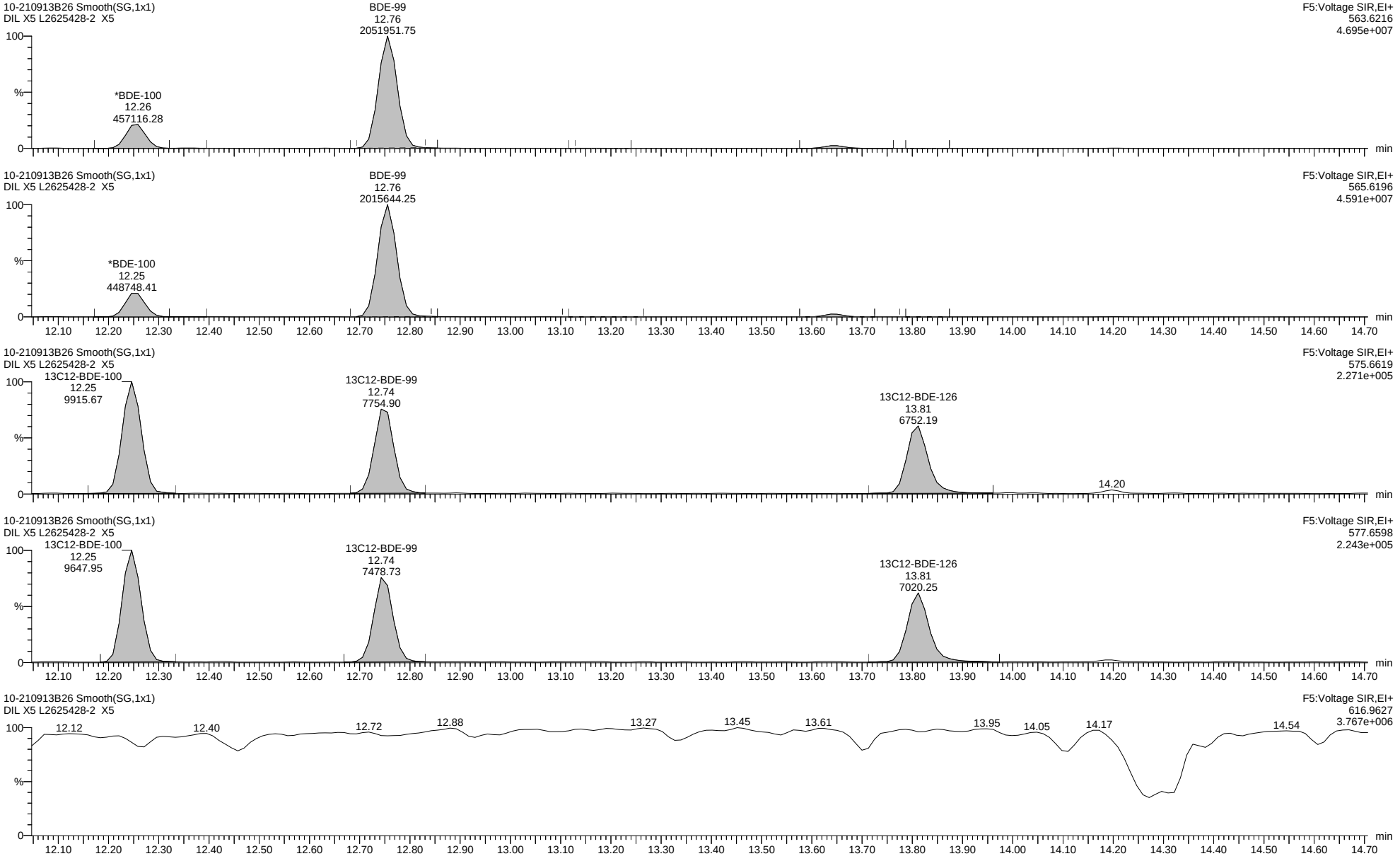

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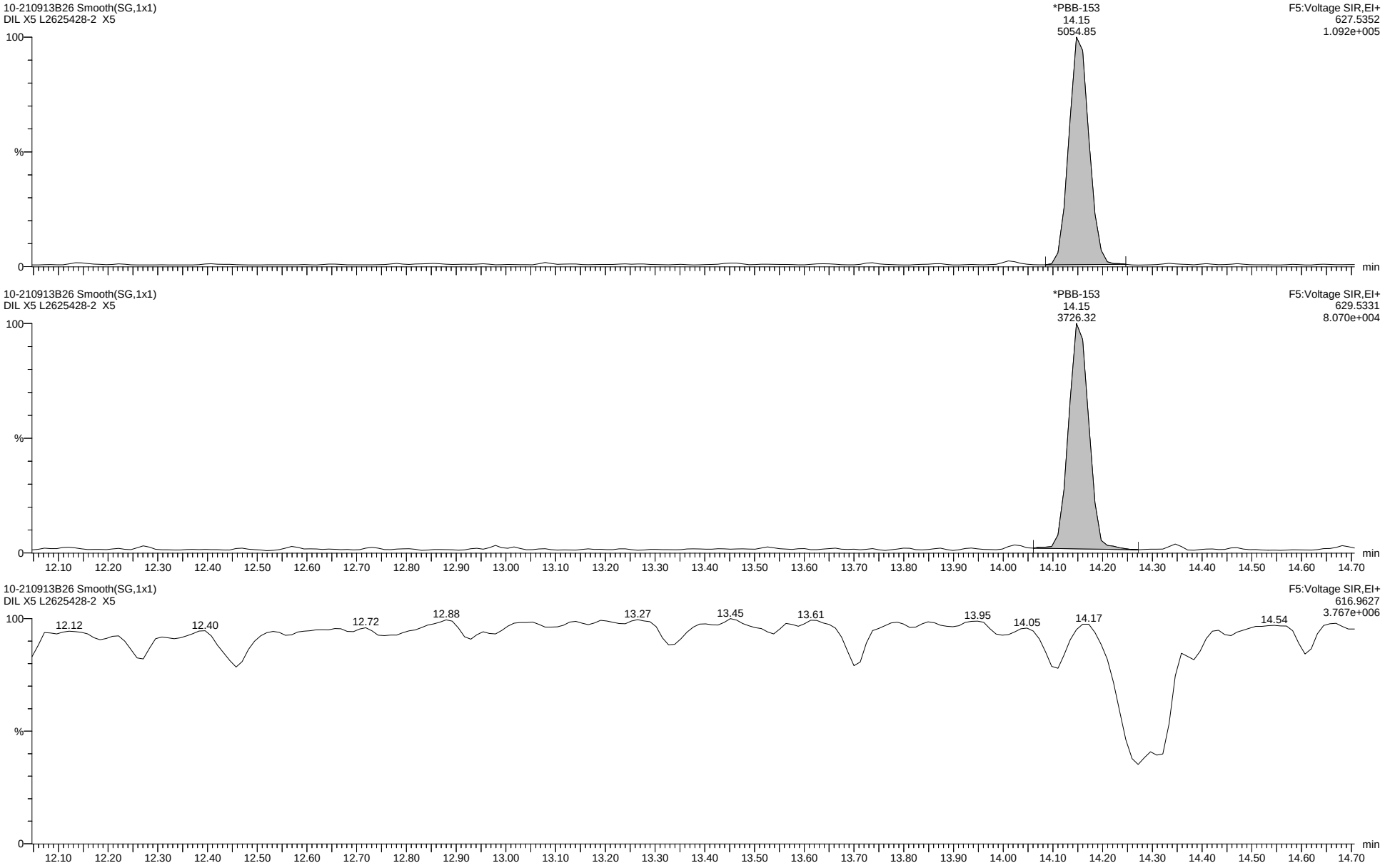

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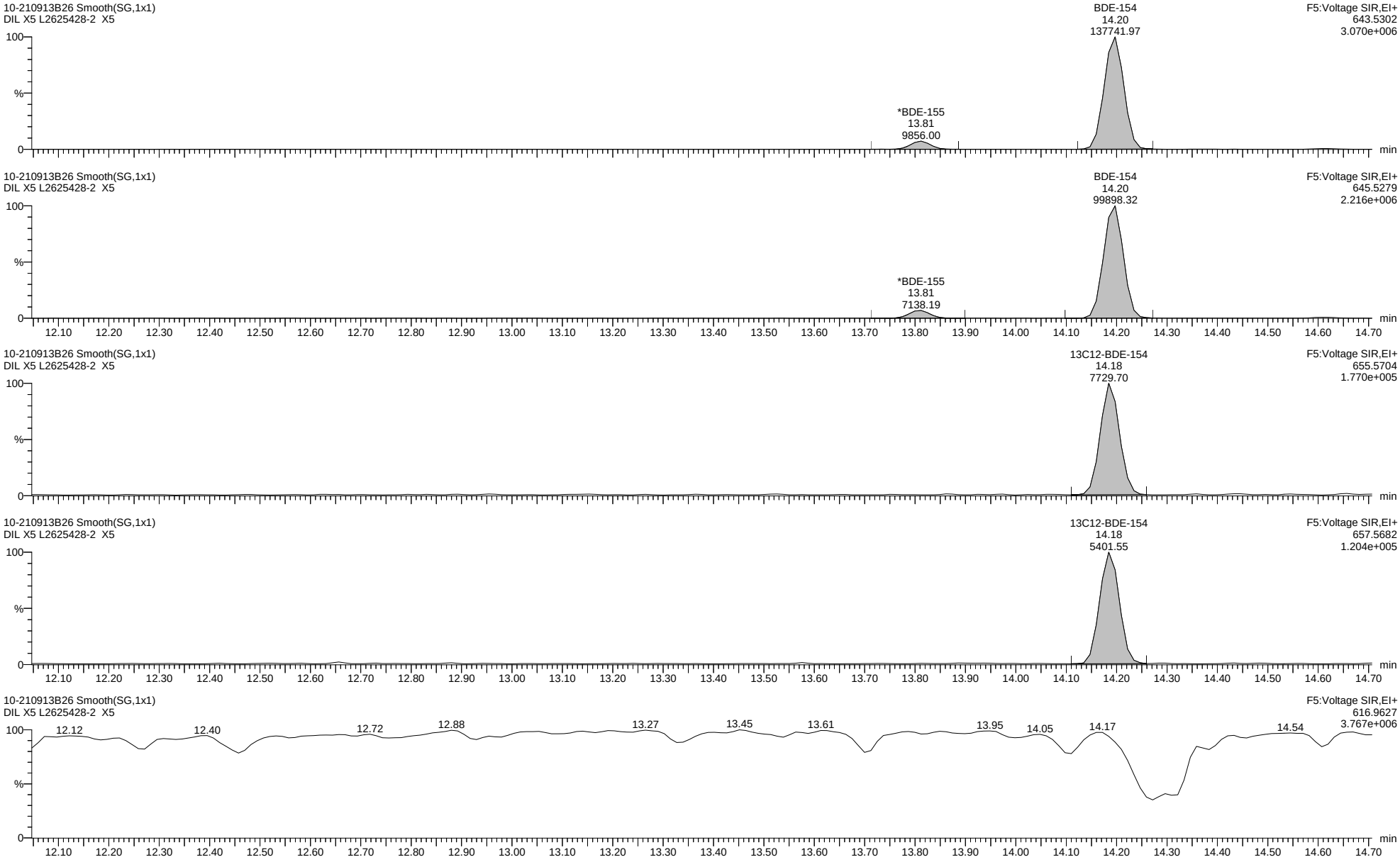

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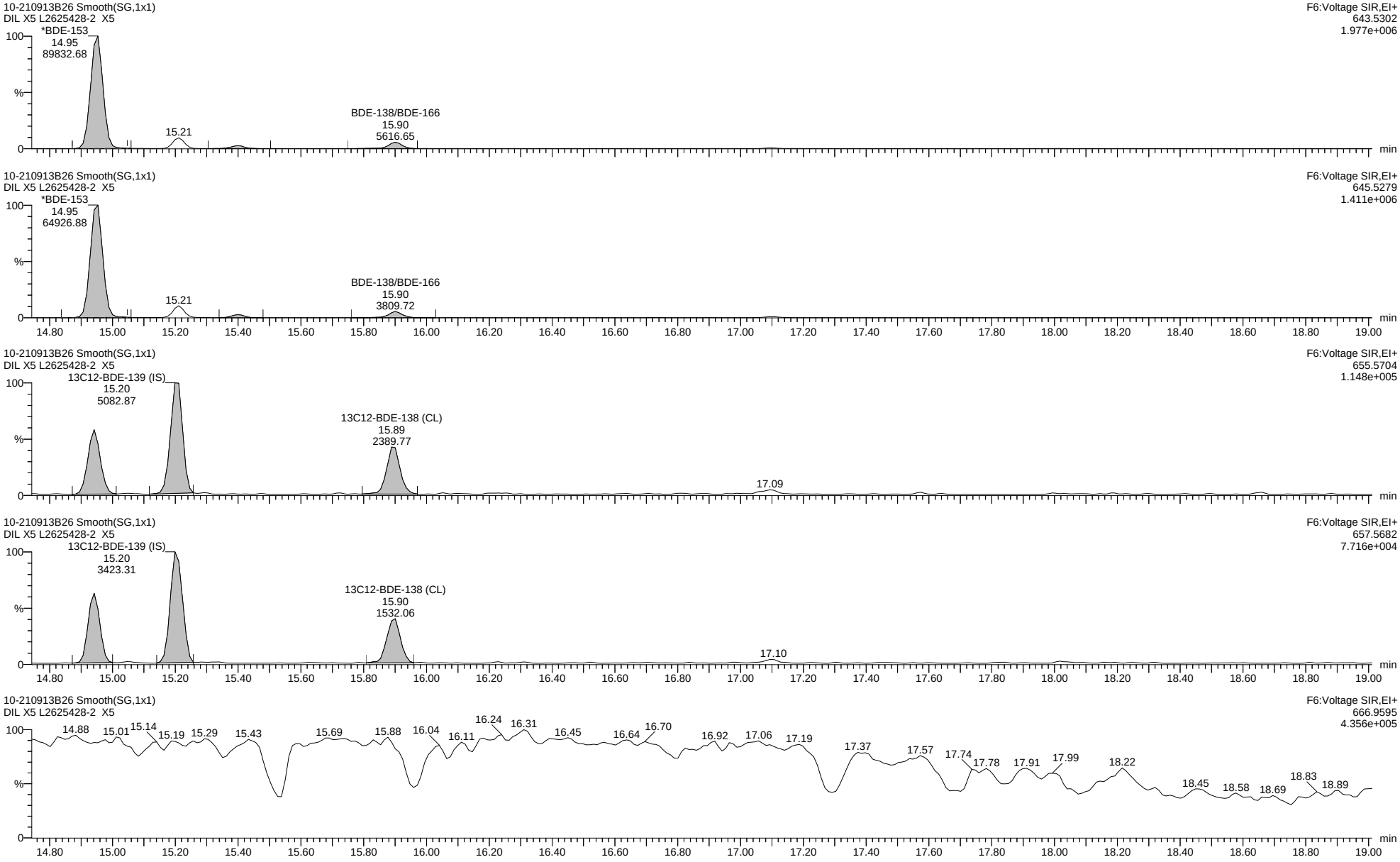

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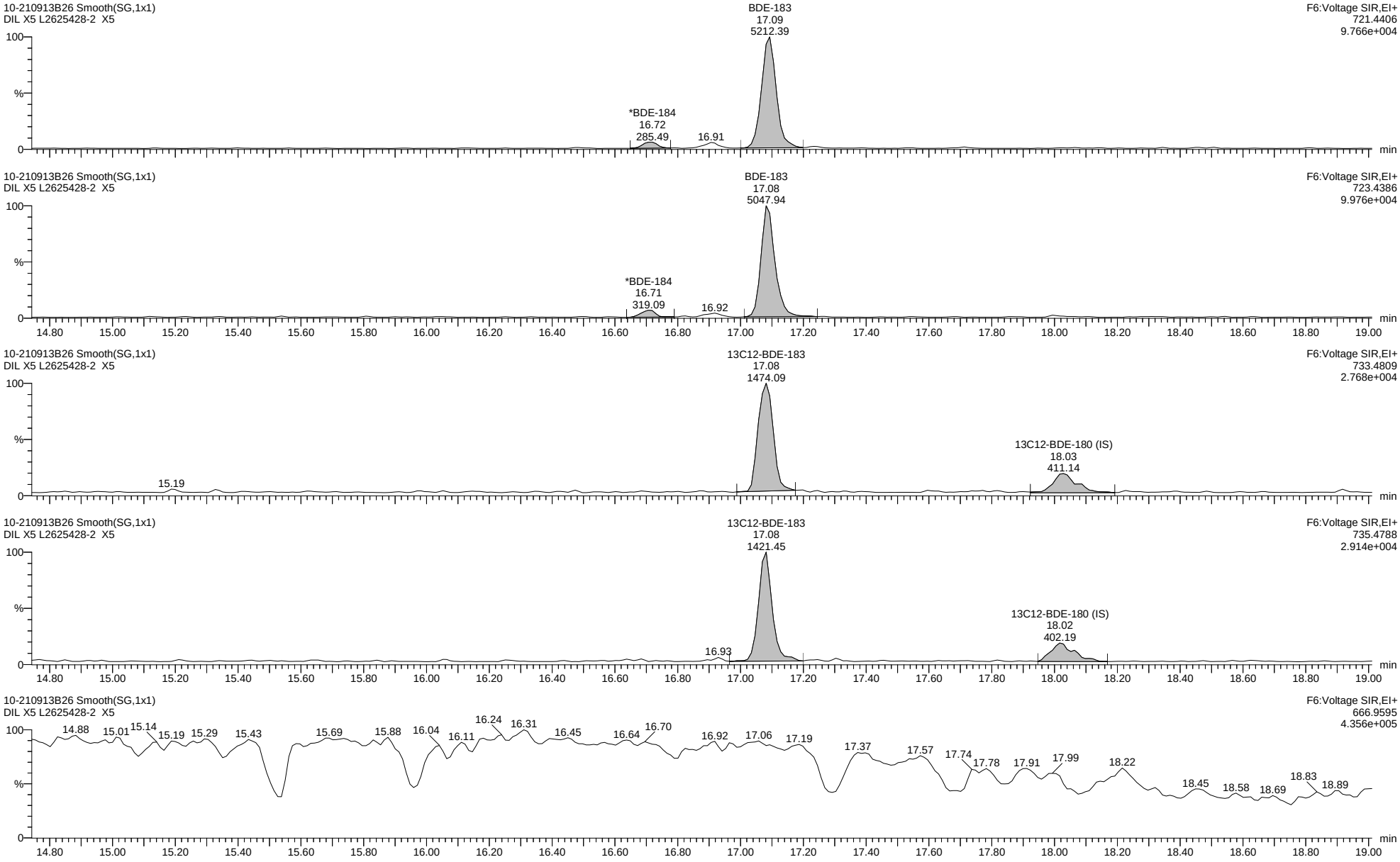

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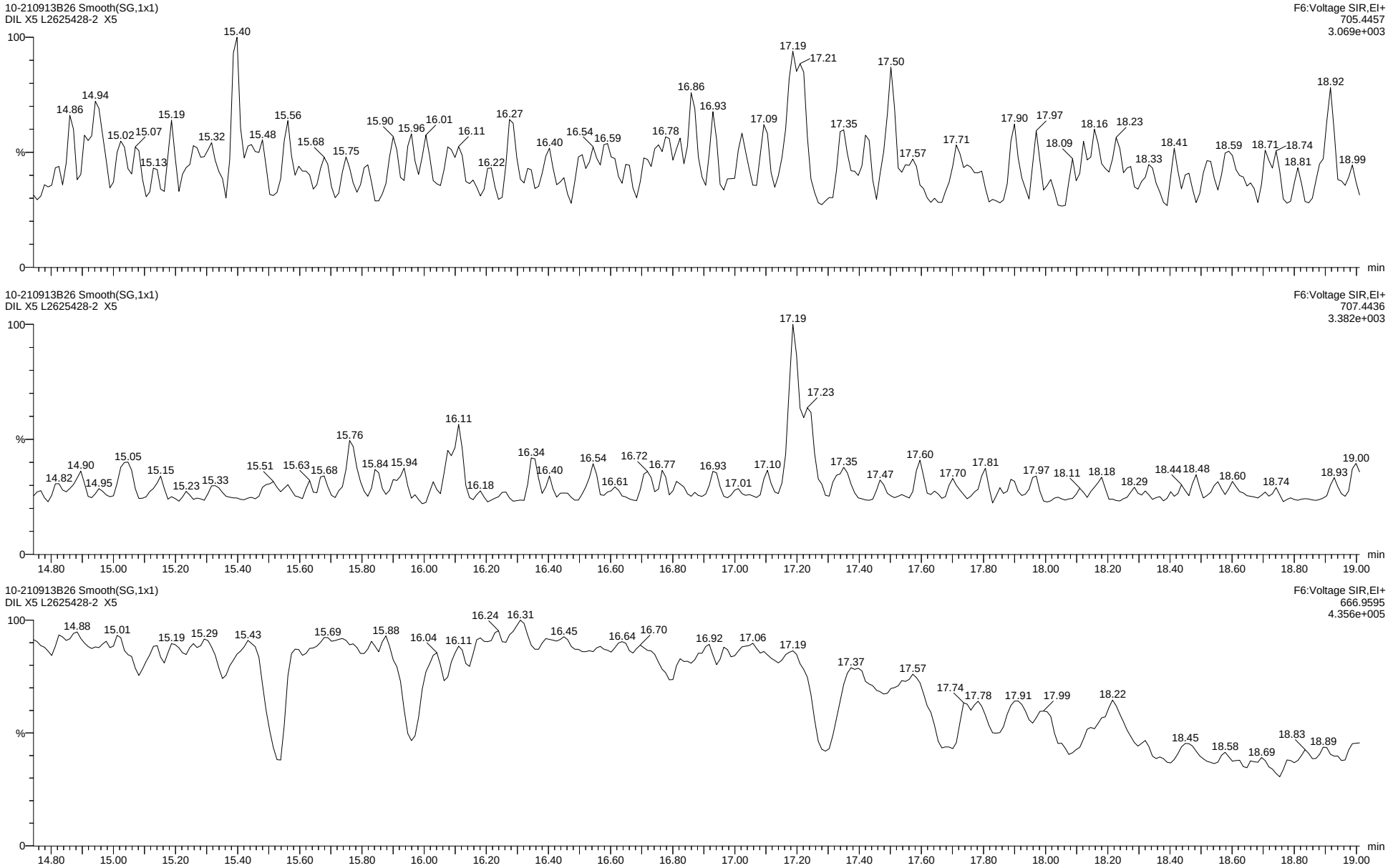

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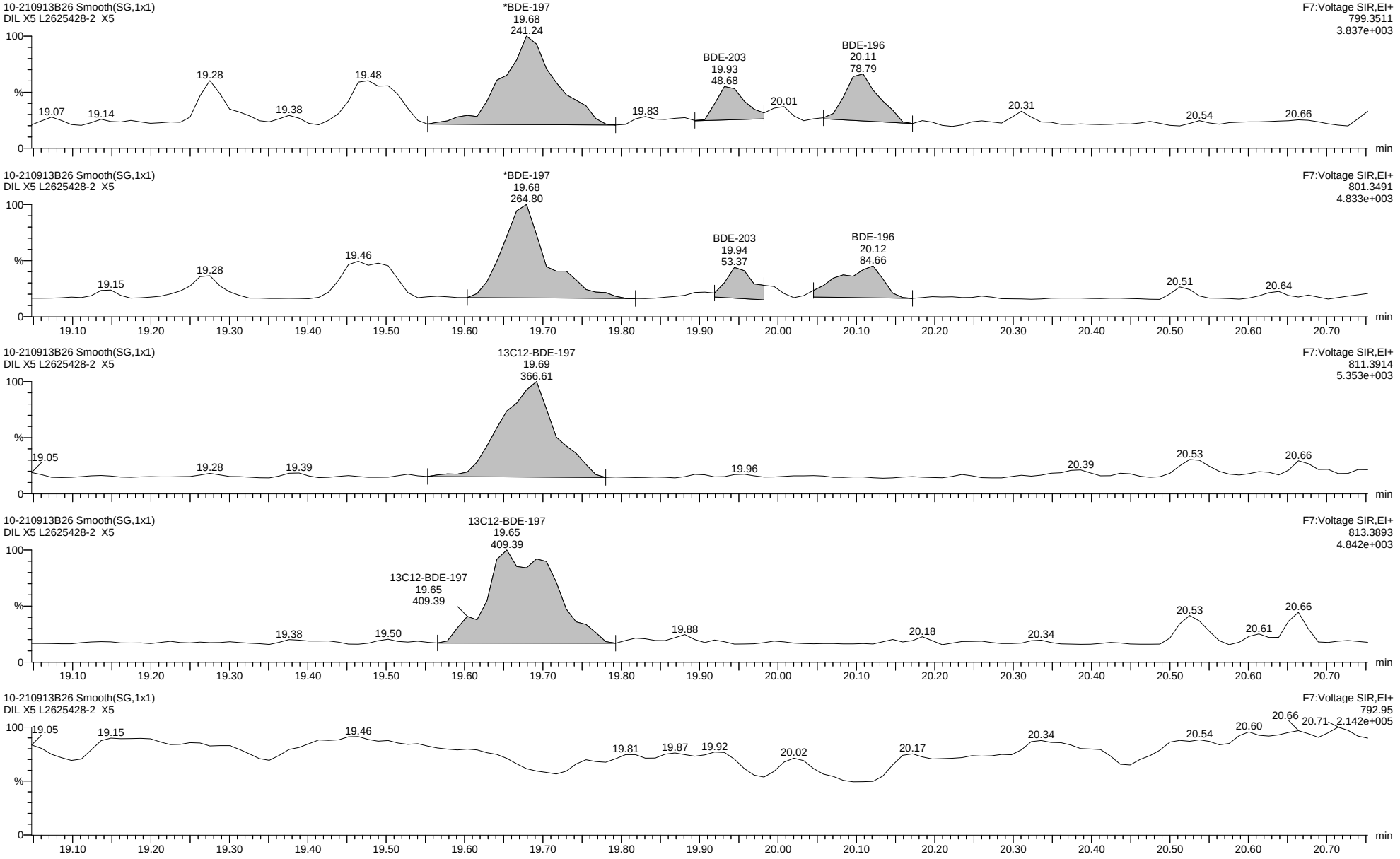

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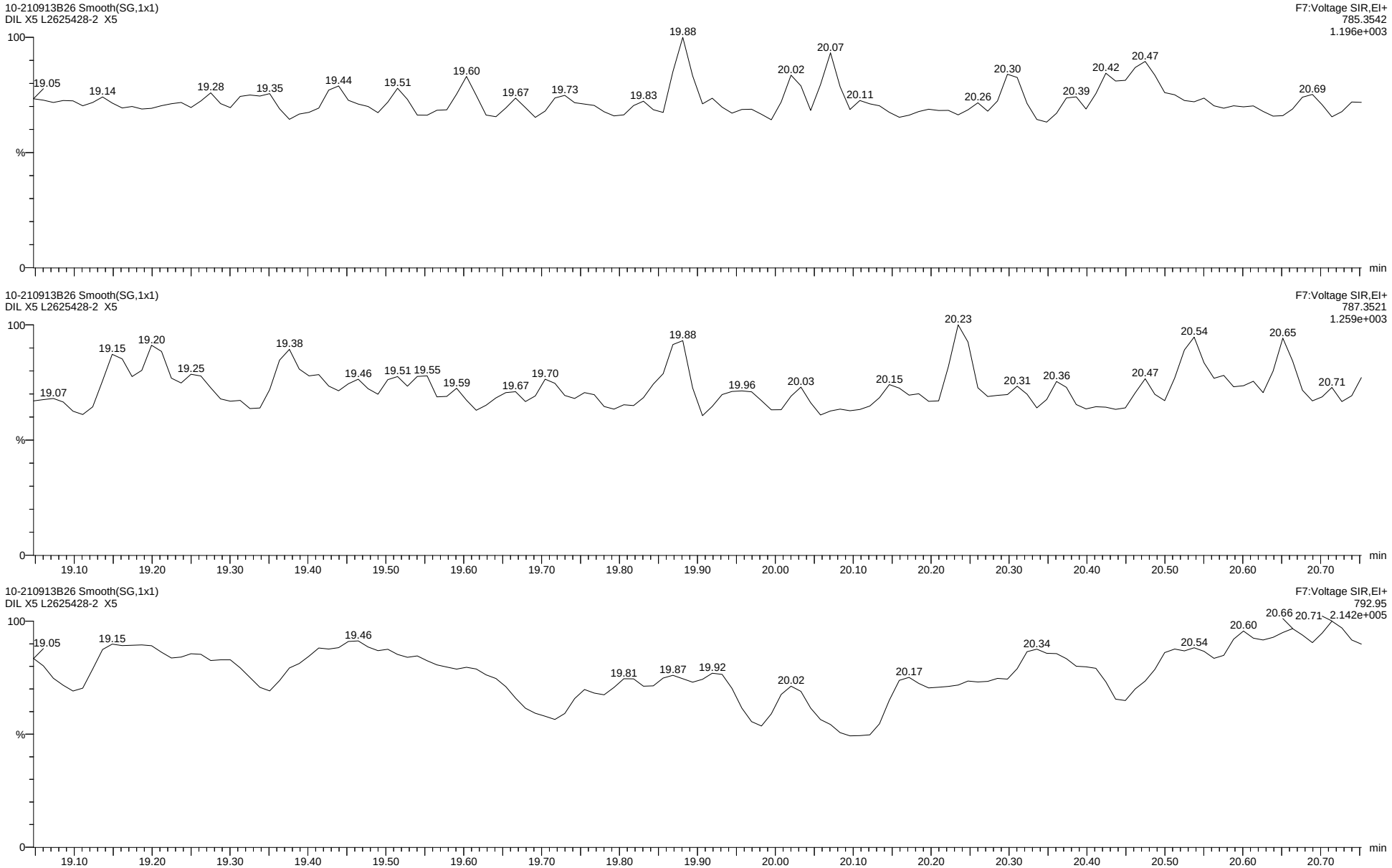
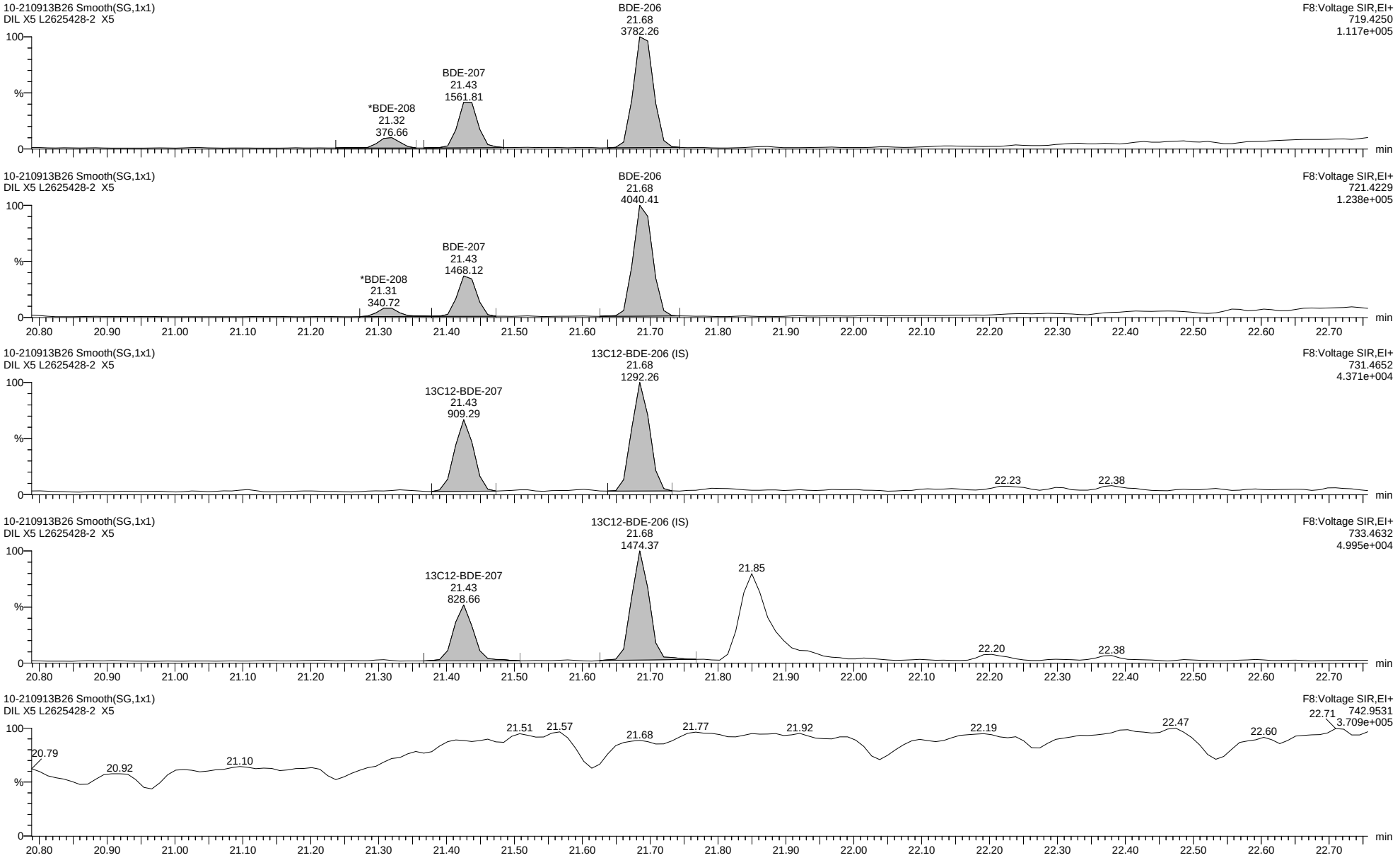


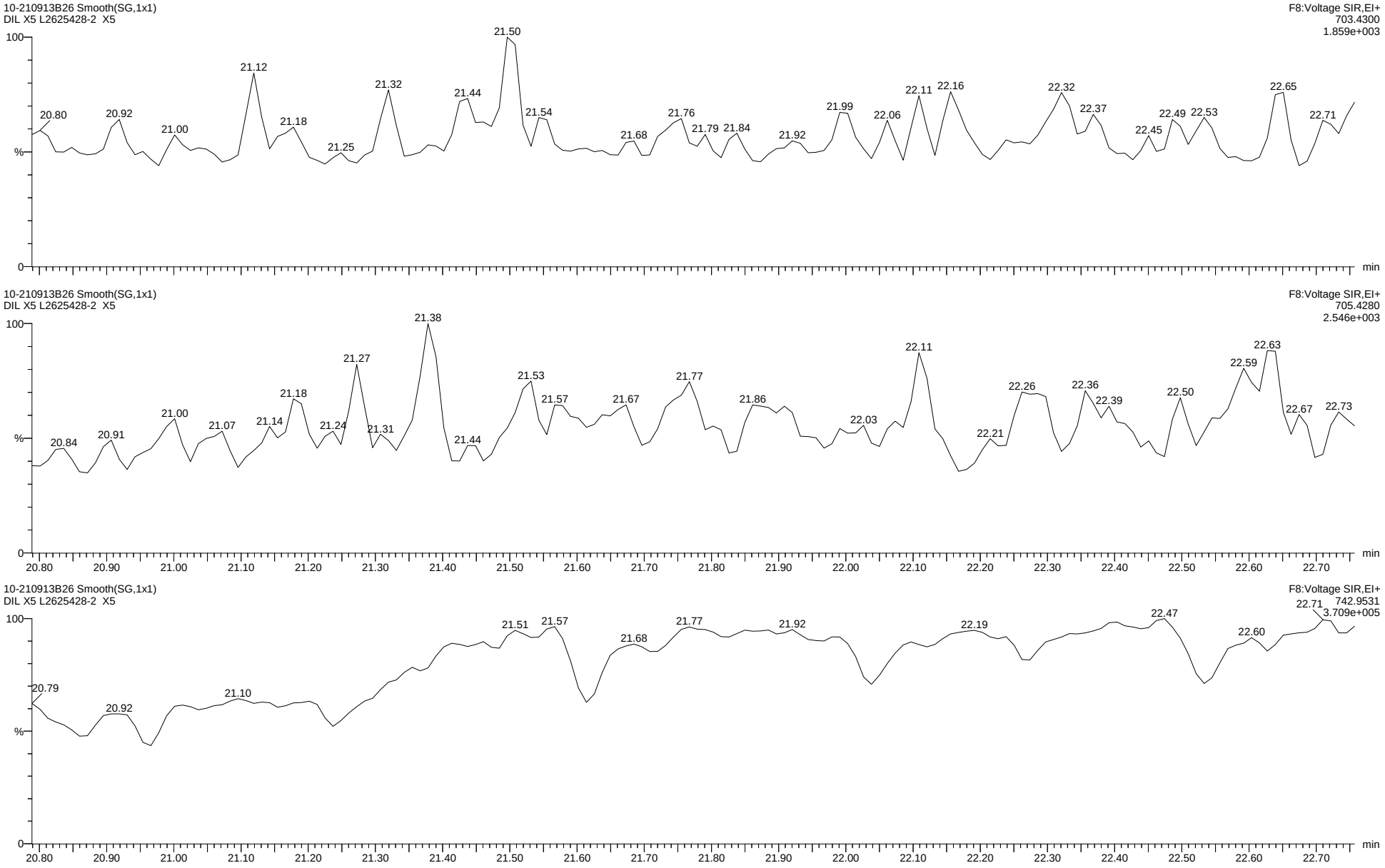
Name: 10-210913B26, Date: 14-Sep-2021, Time: 10:02:54, ID: L2625428-2 X5, Description: DIL X5, Vial: Tray1:21



Dataset: I:\Organics Instrument\HIGHRES GCMS Completed Results Files\HR-10\2021\2109\10-210913B-Q1-PBDE.qld

Last Altered: Thursday, September 16, 2021 14:59:12 Eastern Daylight Time
Printed: Friday, September 17, 2021 10:41:58 Eastern Daylight Time

Name: 10-210913B26, Date: 14-Sep-2021, Time: 10:02:54, ID: L2625428-2 X5, Description: DIL X5, Vial: Tray1:21

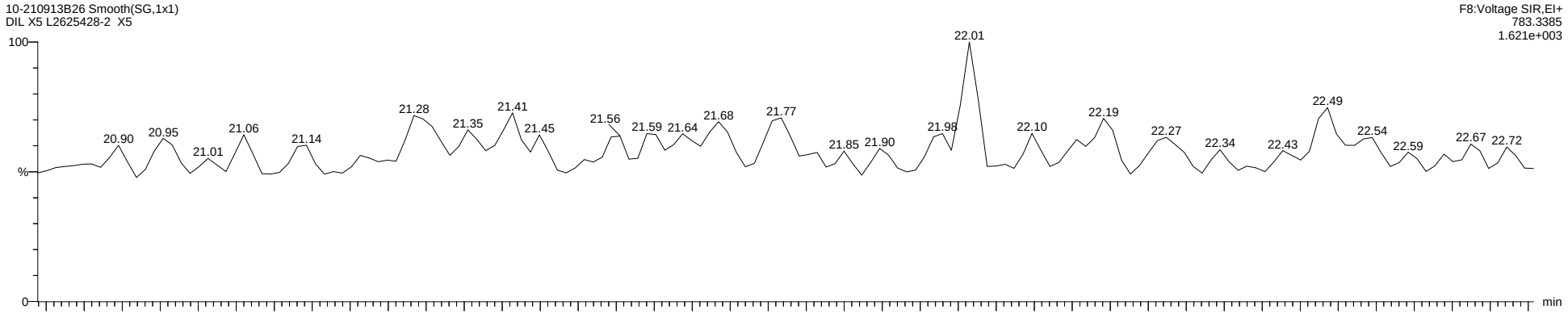


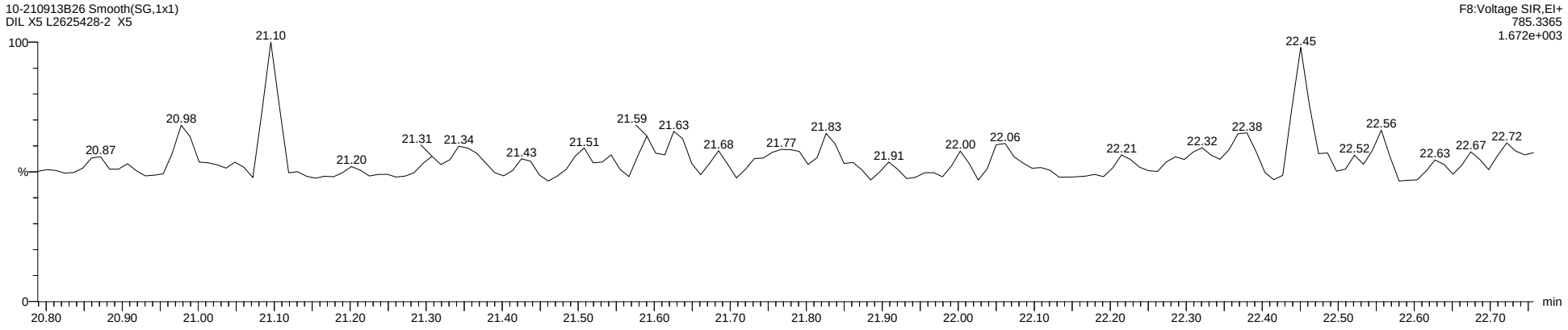
Quantify Sample Template Report **MassLynx MassLynx V4.1 SCN 901**

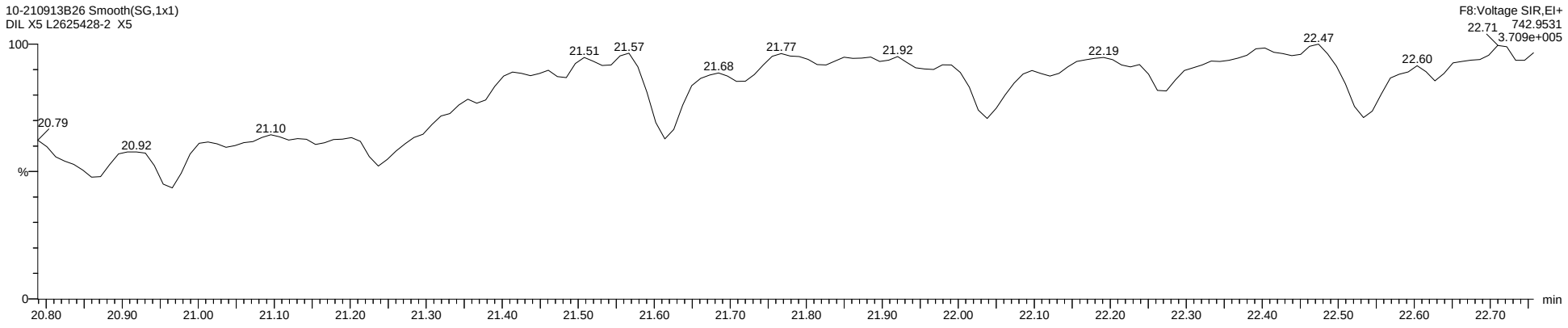
Dataset: I:\Organics Instrument\HIGHRES GCMS Completed Results Files\HR-10\2021\2109\10-210913B-Q1-PBDE.qld

Last Altered: Thursday, September 16, 2021 14:59:12 Eastern Daylight Time
Printed: Friday, September 17, 2021 10:41:58 Eastern Daylight Time

Name: 10-210913B26, Date: 14-Sep-2021, Time: 10:02:54, ID: L2625428-2 X5, Description: DIL X5, Vial: Tray1:21





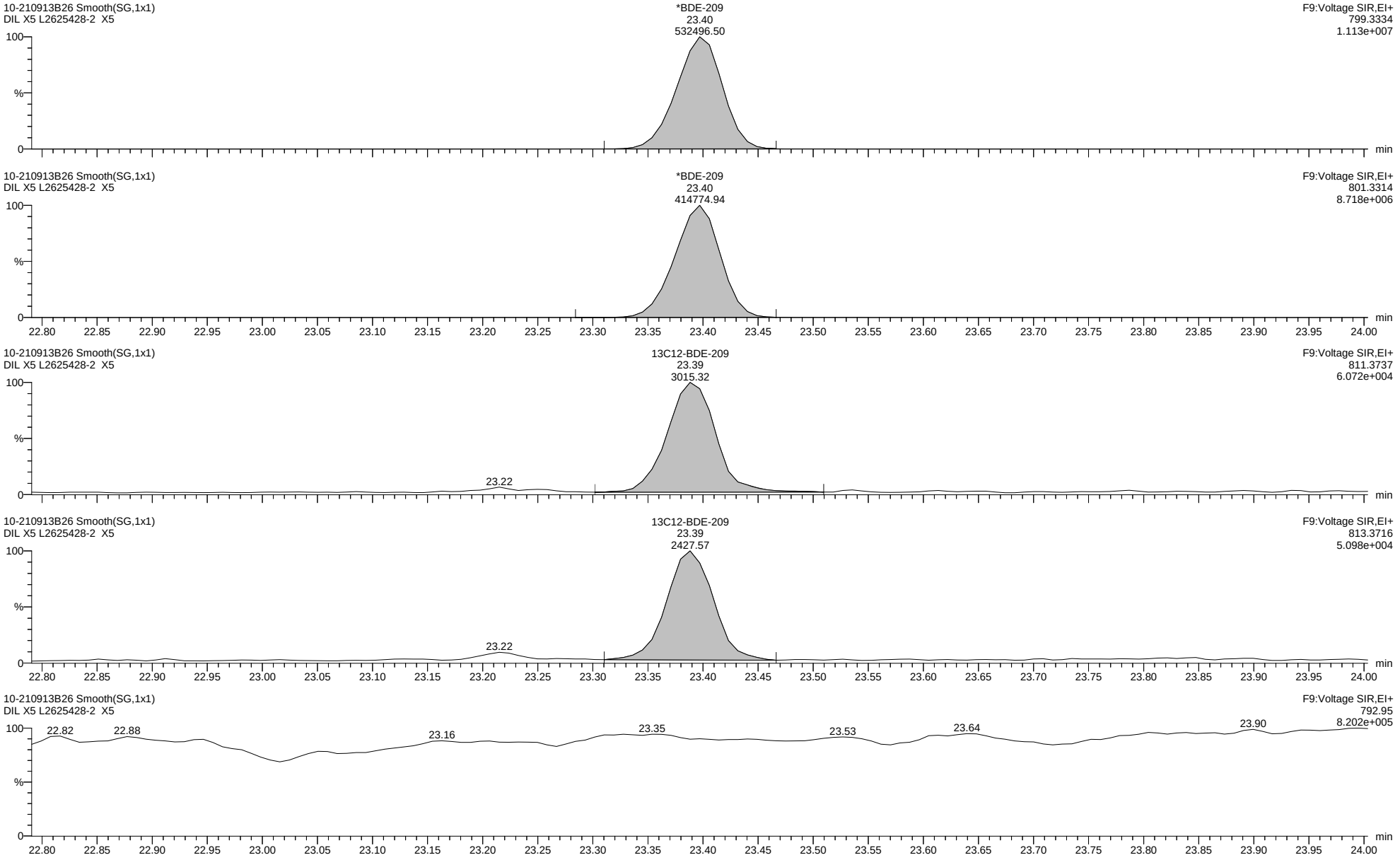


Quantify Sample Template Report **MassLynx MassLynx V4.1 SCN 901**

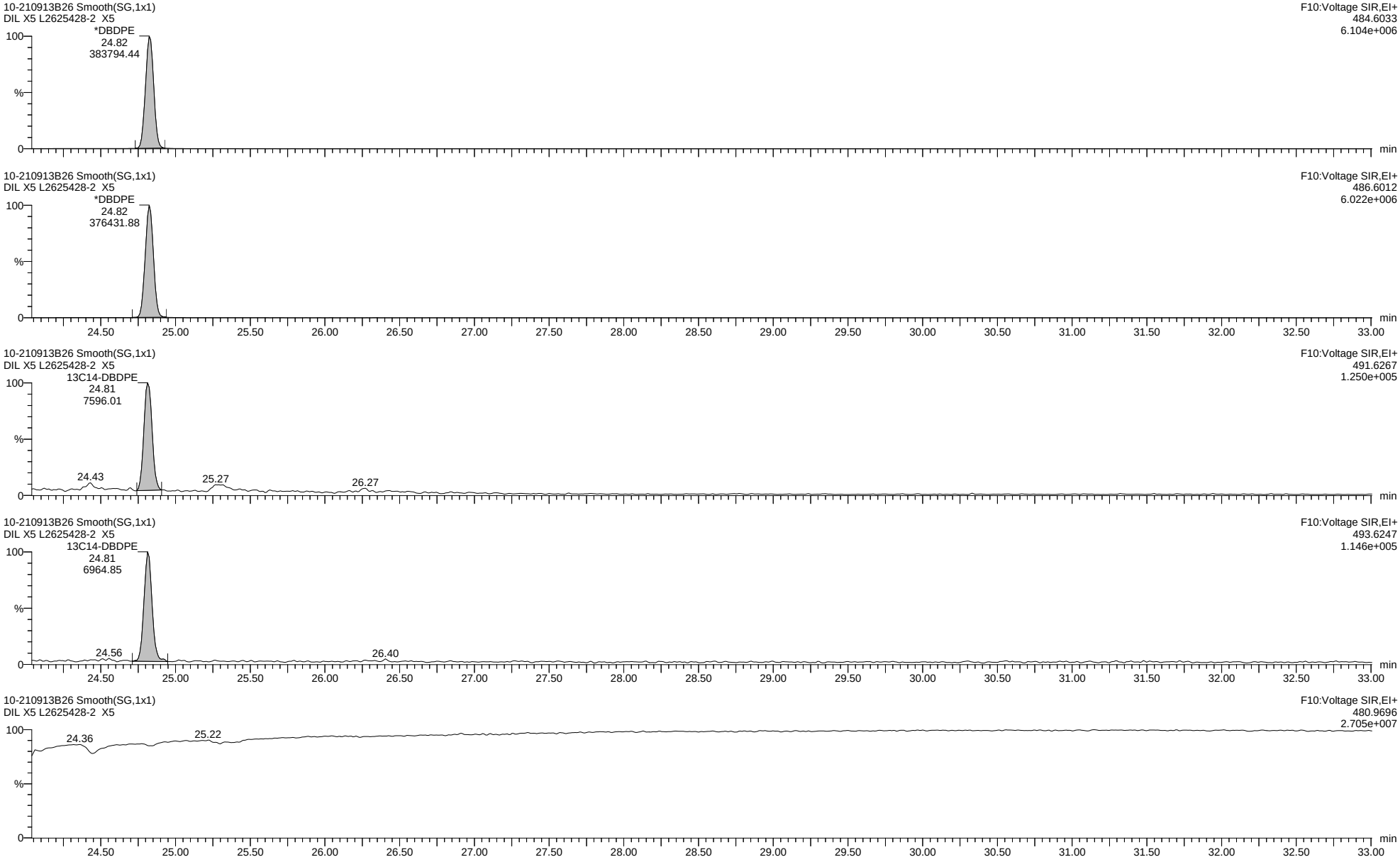
Dataset: I:\Organics Instrument\HIGHRES GCMS Completed Results Files\HR-10\2021\2109\10-210913B-Q1-PBDE.qld

Last Altered: Thursday, September 16, 2021 14:59:12 Eastern Daylight Time
Printed: Friday, September 17, 2021 10:41:58 Eastern Daylight Time

Name: 10-210913B26, Date: 14-Sep-2021, Time: 10:02:54, ID: L2625428-2 X5, Description: DIL X5, Vial: Tray1:21



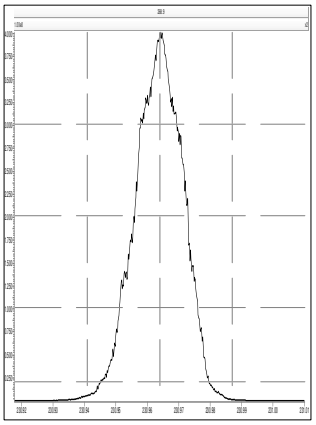
Name: 10-210913B26, Date: 14-Sep-2021, Time: 10:02:54, ID: L2625428-2 X5, Description: DIL X5, Vial: Tray1:21



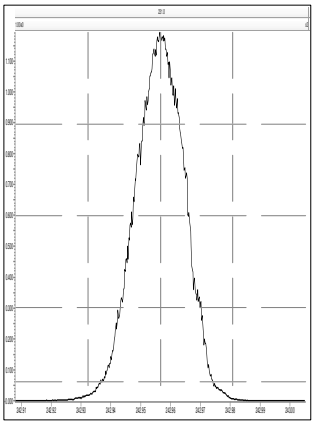
File: Experiment: PBDEX_1614.exp Reference: PfkALS.ref Function: 1 @ 400 (ppm)

Printed: Monday, September 13, 2021 16:51:47 Eastern Daylight Time

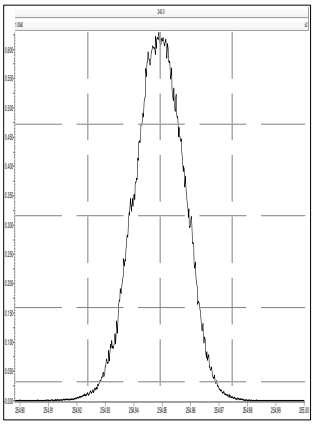
M 230.9856 R 6649



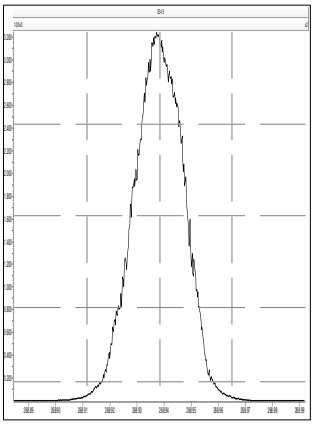
M 242.9856 R 6443



M 254.9856 R 6219



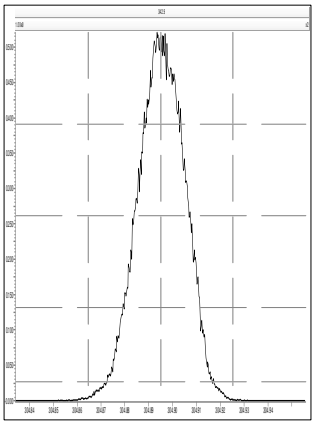
M 268.9824 R 6476



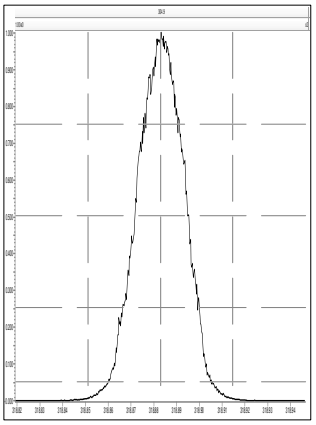
File: Experiment: PBDEX_1614.exp Reference: PfkALS.ref Function: 2 @ 400 (ppm)

Printed: Monday, September 13, 2021 16:52:22 Eastern Daylight Time

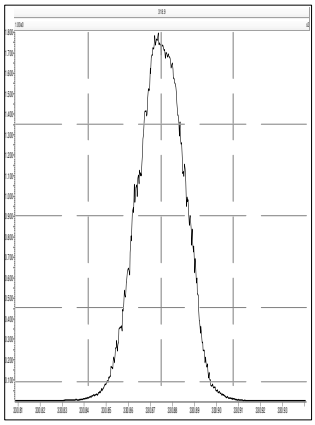
M 304.9824 R 6685



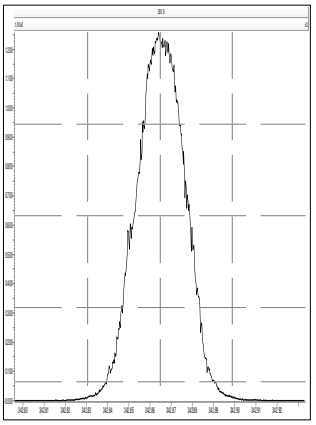
M 318.9792 R 7021



M 330.9792 R 6982



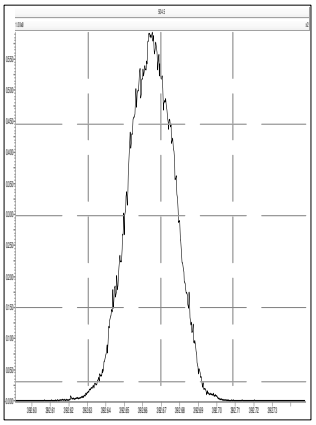
M 342.9792 R 6613



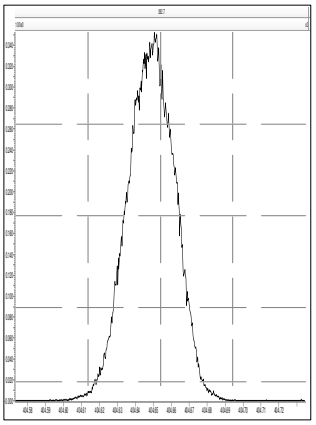
File: Experiment: PBDEX_1614.exp Reference: PfkALS.ref Function: 3 @ 400 (ppm)

Printed: Monday, September 13, 2021 16:52:48 Eastern Daylight Time

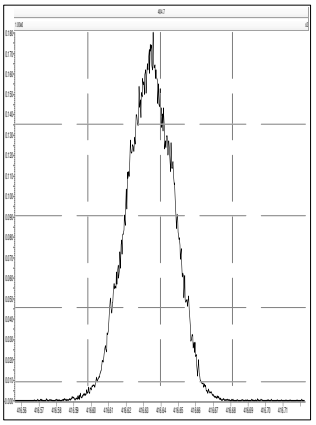
M 392.9760 R 6905



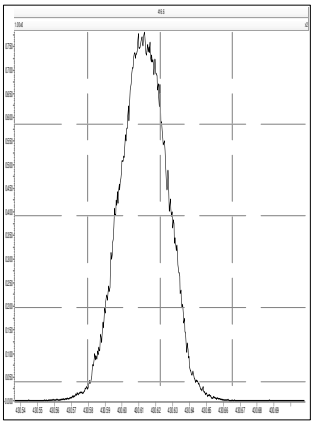
M 404.9760 R 6756



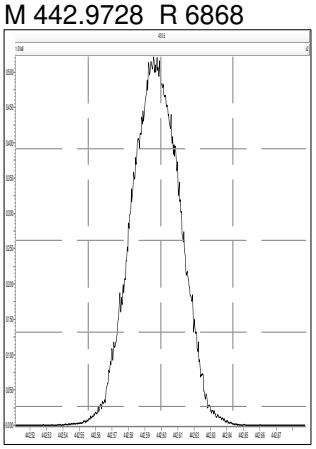
M 416.9760 R 6793



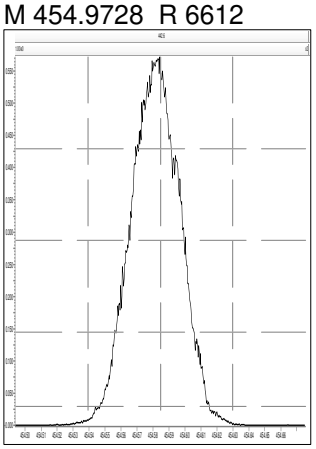
M 430.9728 R 6944



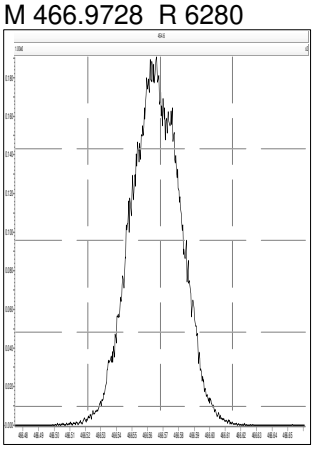
M 442.9728 R 6868



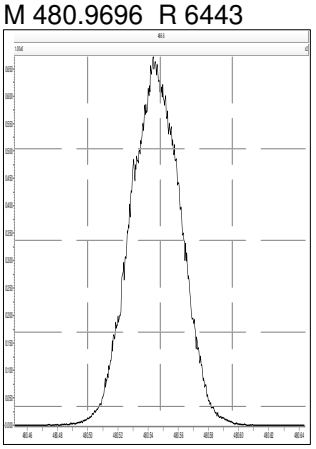
M 454.9728 R 6612



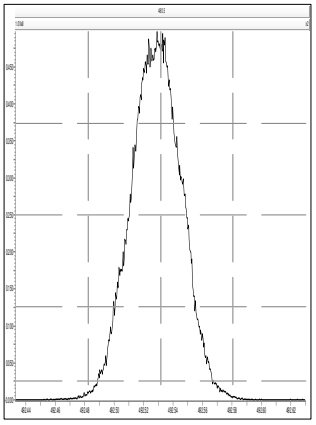
M 466.9728 R 6280



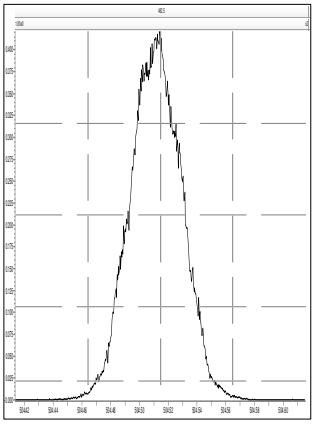
M 480.9696 R 6443



M 492.9696 R 6312



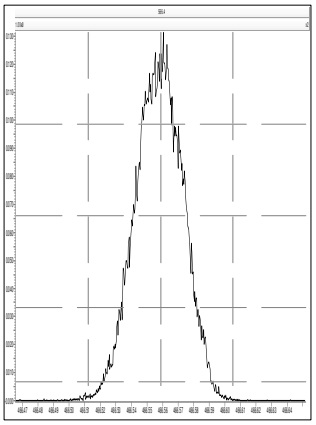
M 504.9696 R 6097



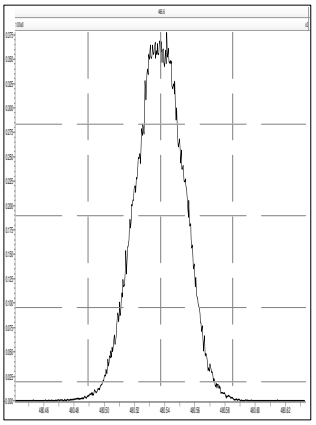
File: Experiment: PBDEX_1614.exp Reference: PfkALS.ref Function: 4 @ 400 (ppm)

Printed: Monday, September 13, 2021 16:53:19 Eastern Daylight Time

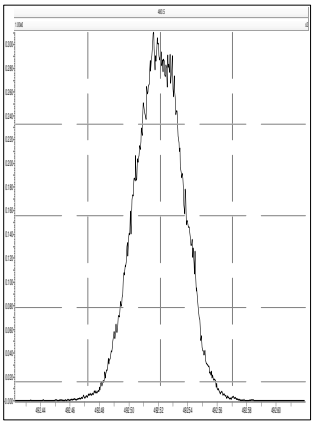
M 466.9728 R 6442



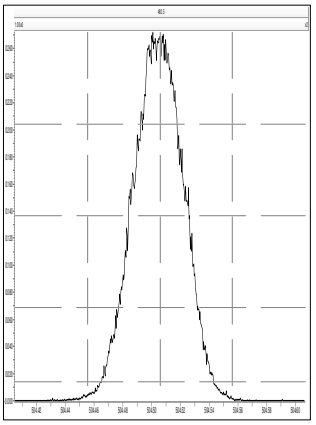
M 480.9696 R 6443



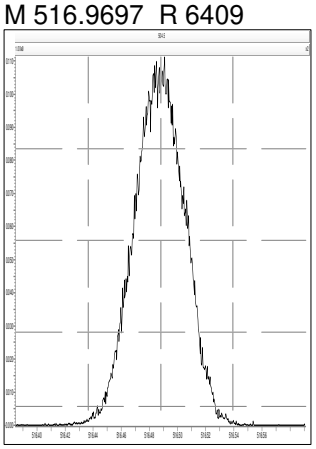
M 492.9696 R 6409



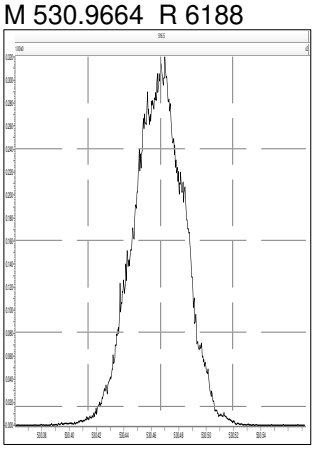
M 504.9696 R 6378



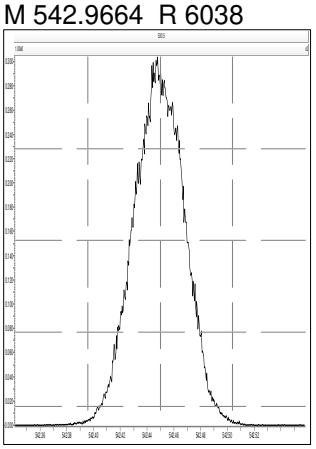
M 516.9697 R 6409



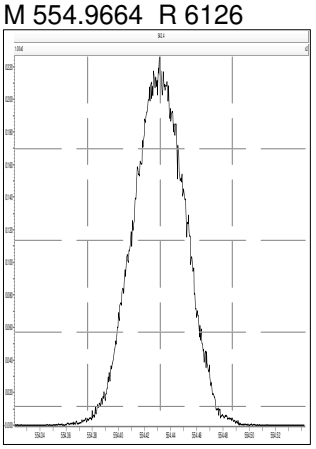
M 530.9664 R 6188



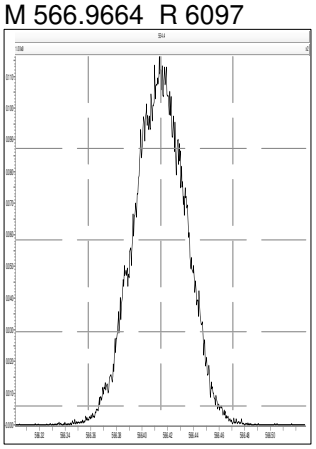
M 542.9664 R 6038



M 554.9664 R 6126



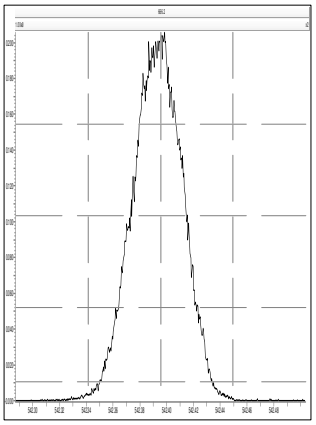
M 566.9664 R 6097



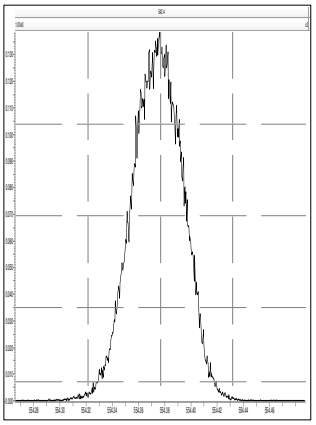
File: Experiment: PBDEX_1614.exp Reference: PfkALS.ref Function: 5 @ 400 (ppm)

Printed: Monday, September 13, 2021 16:53:48 Eastern Daylight Time

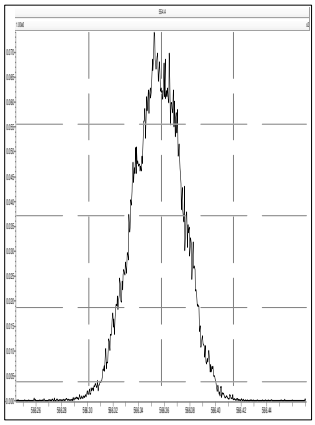
M 542.9664 R 6409



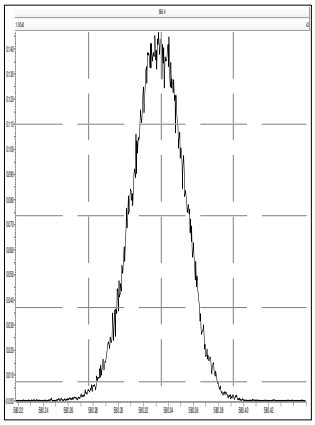
M 554.9664 R 6125



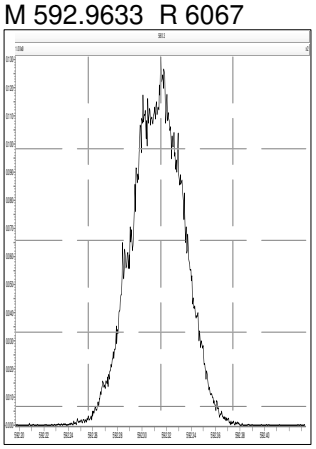
M 566.9664 R 6157



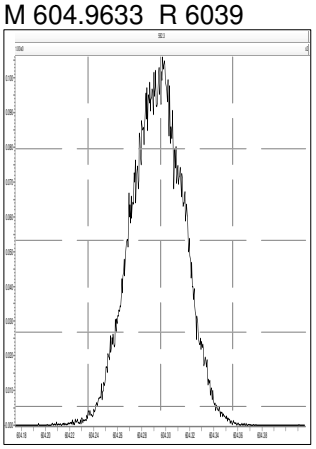
M 580.9633 R 6008



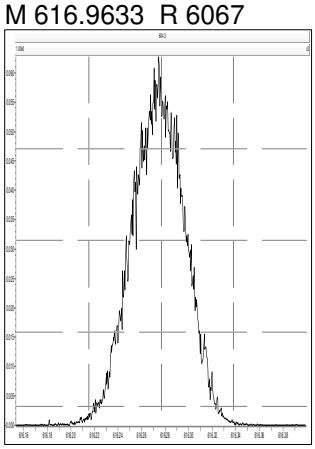
M 592.9633 R 6067



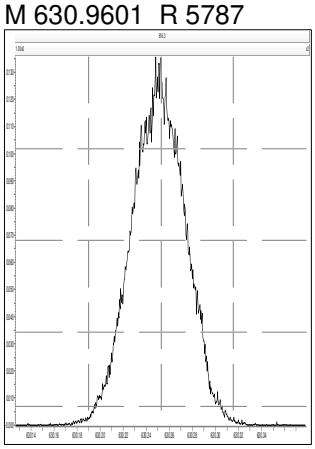
M 604.9633 R 6039



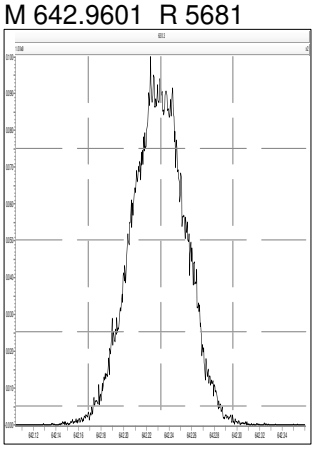
M 616.9633 R 6067



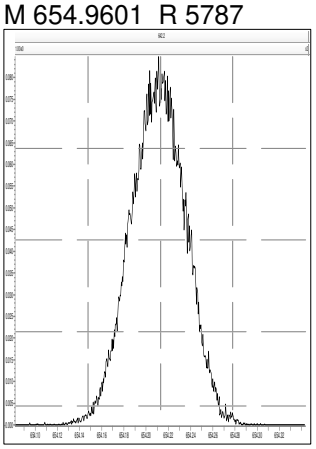
M 630.9601 R 5787



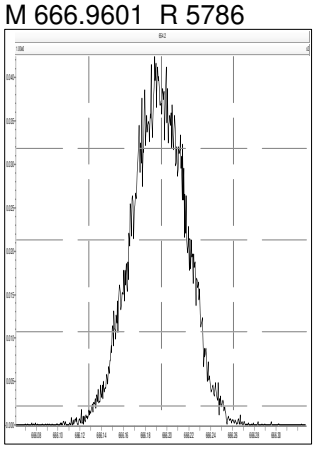
M 642.9601 R 5681



M 654.9601 R 5787



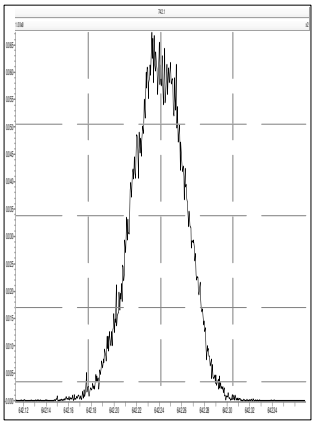
M 666.9601 R 5786



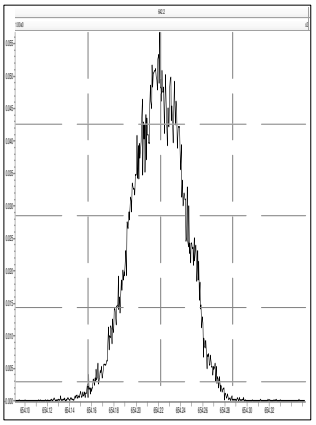
File: Experiment: PBDEX_1614.exp Reference: PfkALS.ref Function: 6 @ 400 (ppm)

Printed: Monday, September 13, 2021 16:54:19 Eastern Daylight Time

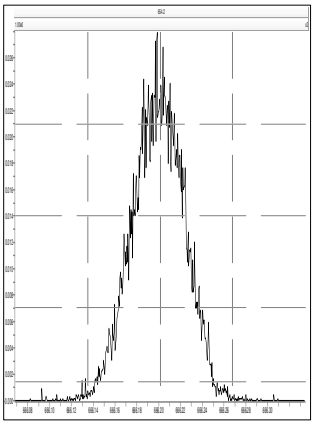
M 642.9601 R 6188



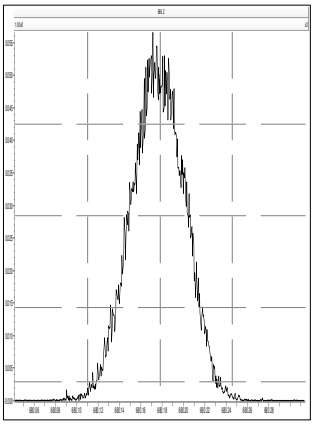
M 654.9601 R 5786



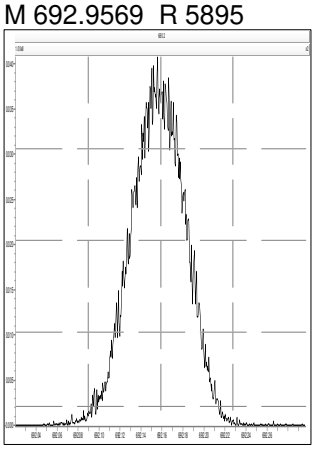
M 666.9601 R 5980



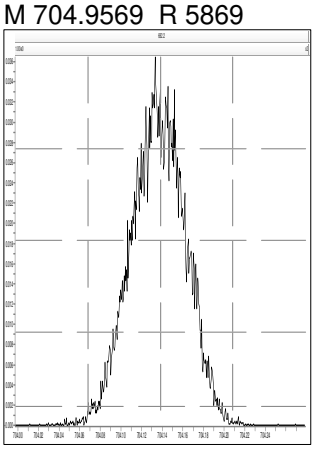
M 680.9569 R 6038



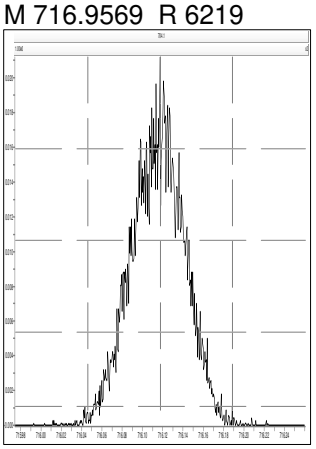
M 692.9569 R 5895



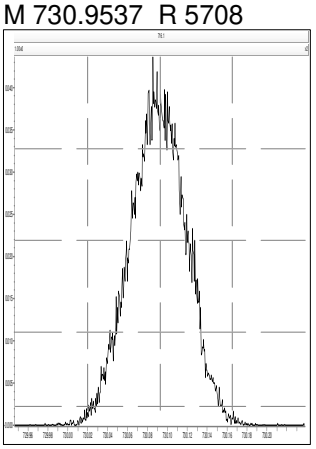
M 704.9569 R 5869



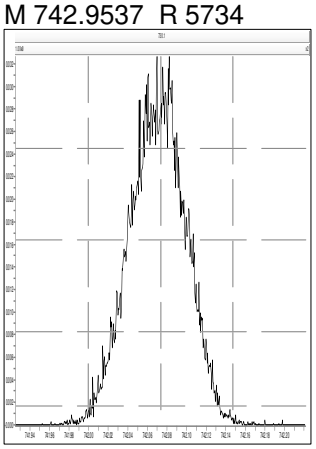
M 716.9569 R 6219



M 730.9537 R 5708



M 742.9537 R 5734



File: Experiment: PBDEX_1614.exp Reference: PfkALS.ref Function: 7 @ 400 (ppm)

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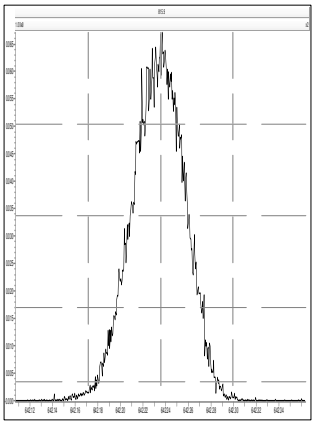
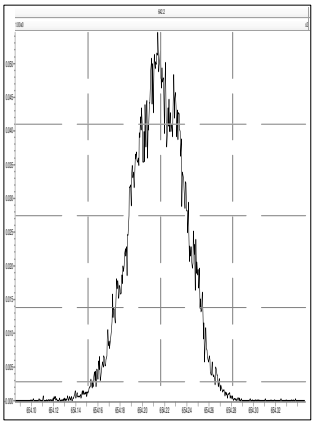
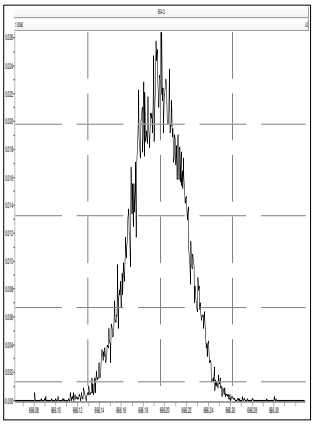
M 642.9601 R 6127



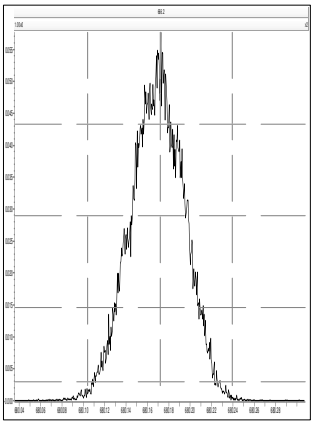
M 654.9601 R 5981



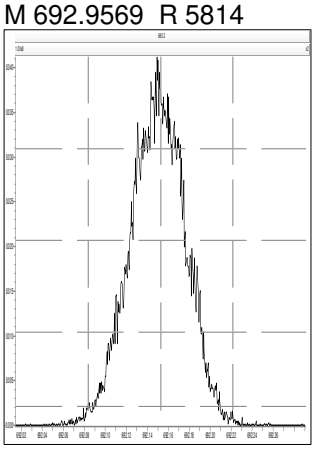
M 666.9601 R 6097



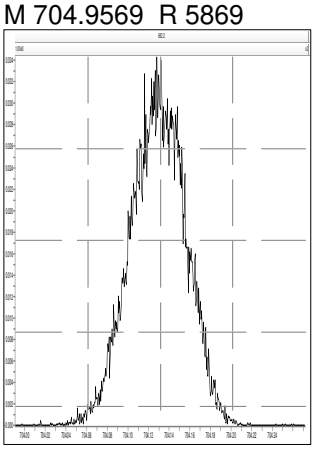
M 680.9569 R 6008



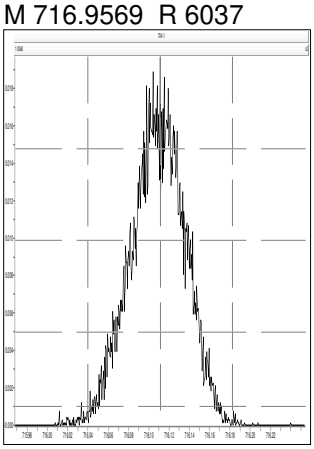
M 692.9569 R 5814



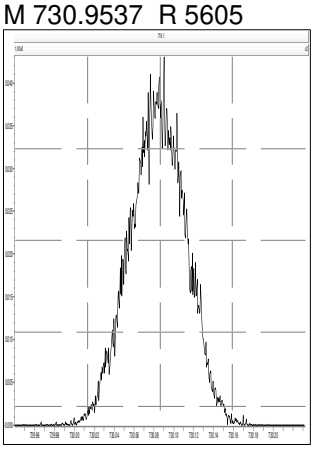
M 704.9569 R 5869



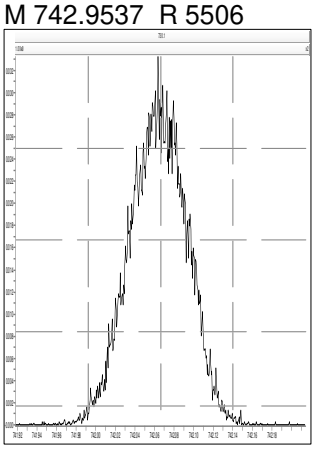
M 716.9569 R 6037



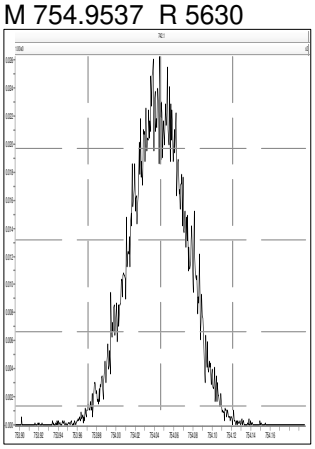
M 730.9537 R 5605



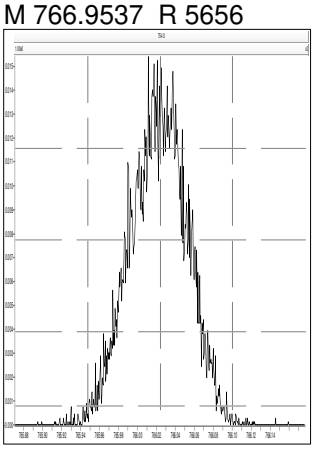
M 742.9537 R 5506



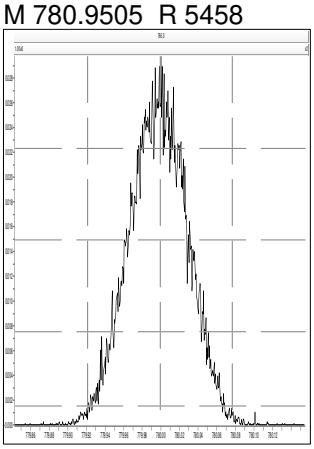
M 754.9537 R 5630



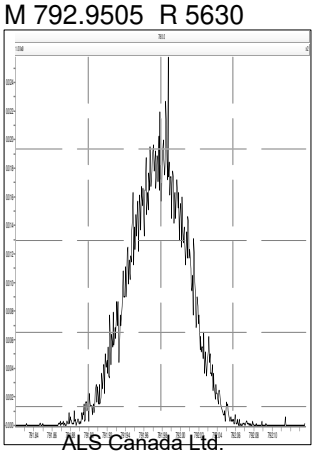
M 766.9537 R 5656



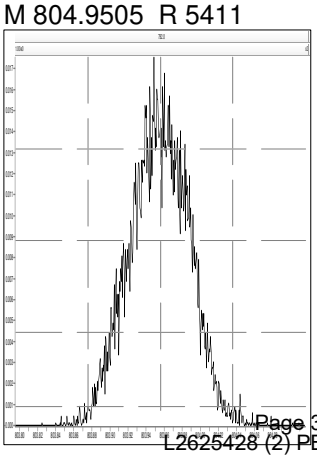
M 780.9505 R 5458



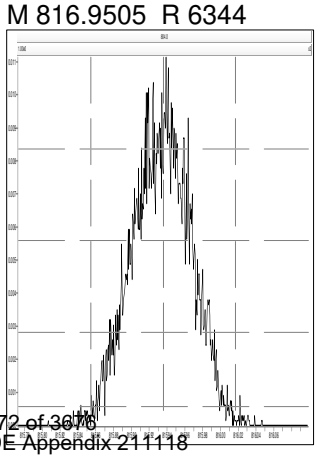
M 792.9505 R 5630



M 804.9505 R 5411



M 816.9505 R 6344



File: Experiment: PBDEX_1614.exp Reference: PfkALS.ref Function: 8 @ 400 (ppm)

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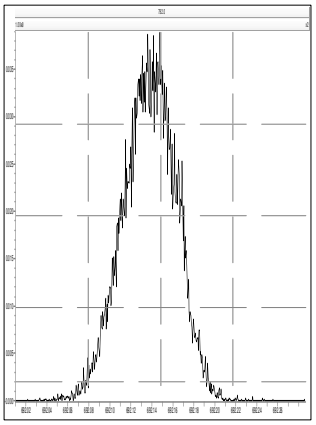
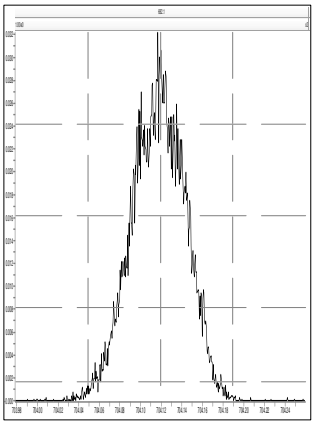
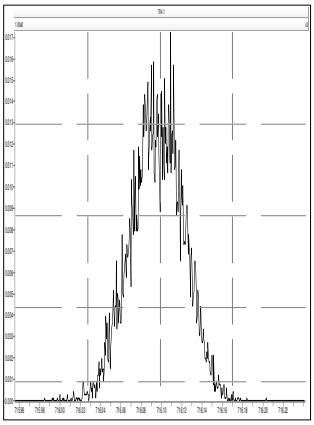
M 692.9569 R 6157



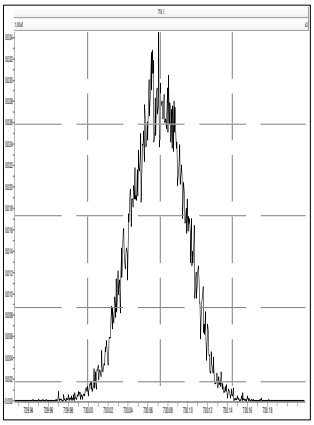
M 704.9569 R 6158



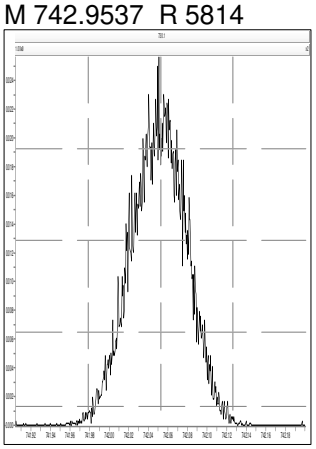
M 716.9569 R 6218



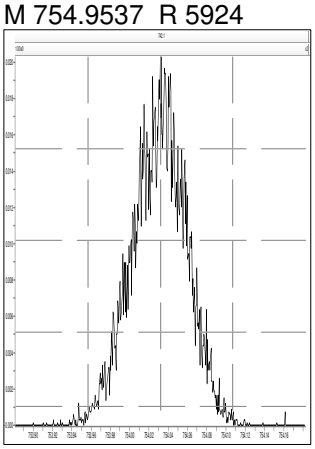
M 730.9537 R 6009



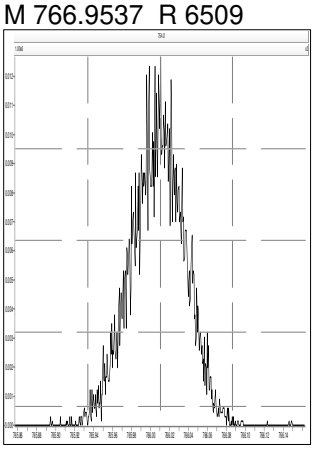
M 742.9537 R 5814



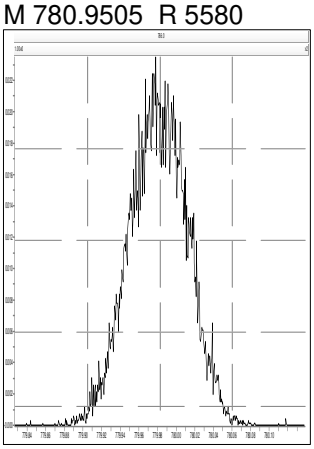
M 754.9537 R 5924



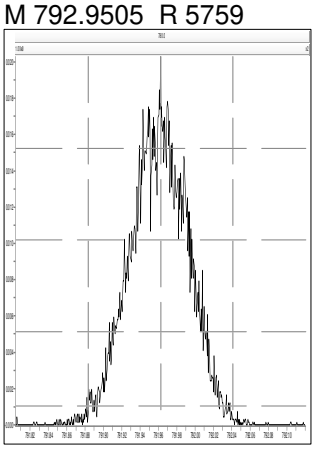
M 766.9537 R 6509



M 780.9505 R 5580



M 792.9505 R 5759



File: Experiment: PBDEX_1614.exp Reference: PfkALS.ref Function: 9 @ 400 (ppm)

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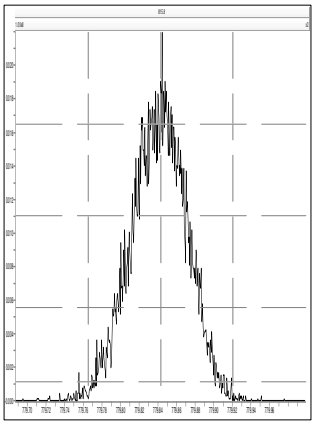
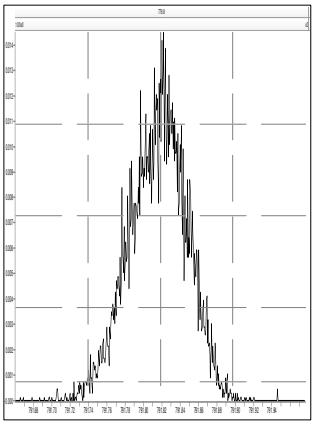
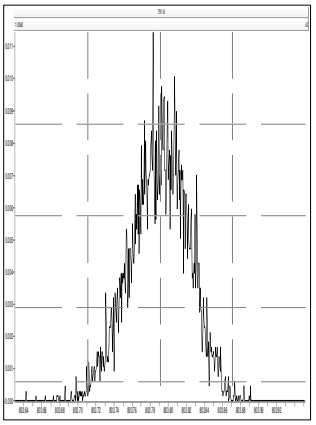
M 780.9505 R 5580



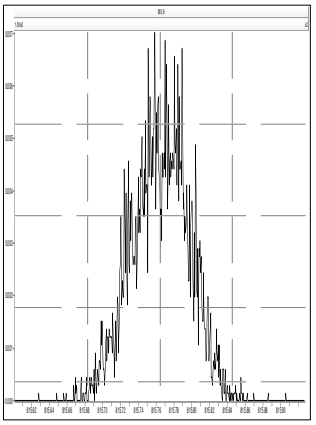
M 792.9505 R 5895



M 804.9505 R 5459



M 816.9505 R 5707



File: Experiment: PBDEX_1614.exp Reference: PfkALS.ref Function: 10 @ 400 (ppm)

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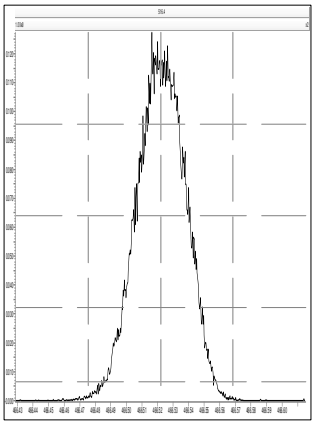
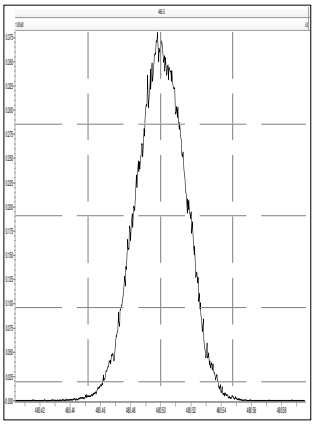
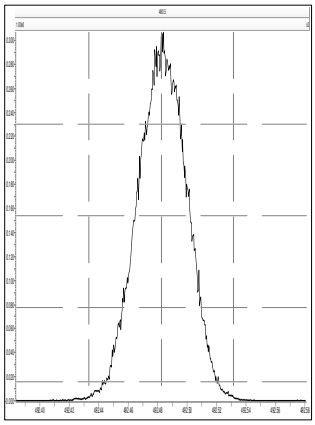
M 466.9728 R 6578



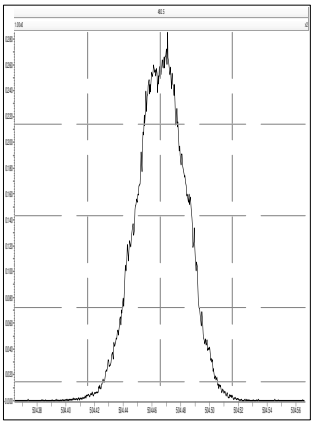
M 480.9696 R 6281



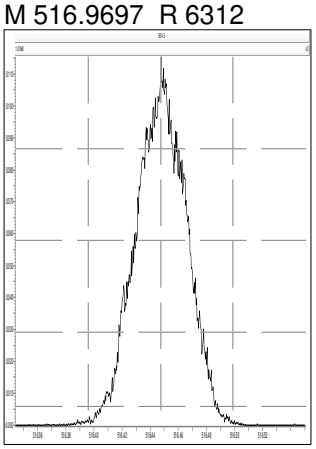
M 492.9696 R 6543



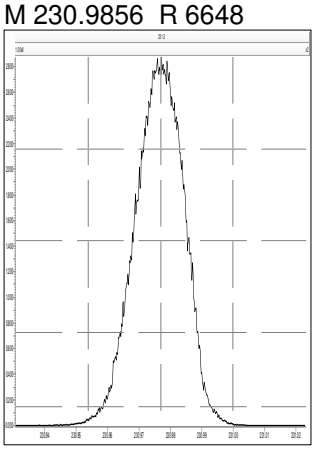
M 504.9696 R 6249



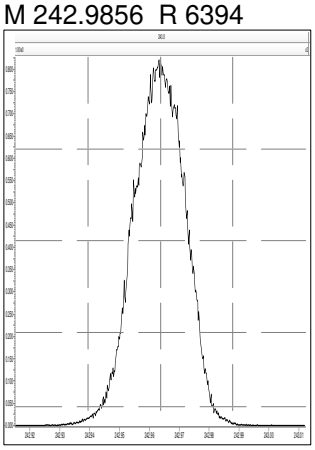
M 516.9697 R 6312



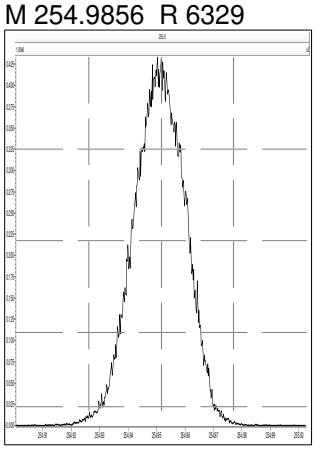
M 230.9856 R 6648



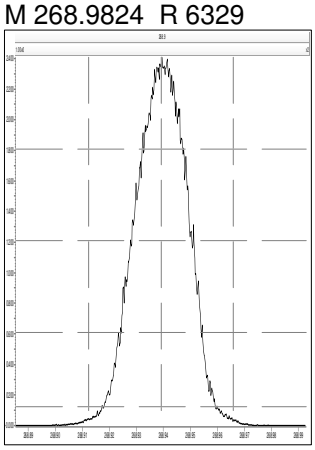
M 242.9856 R 6394



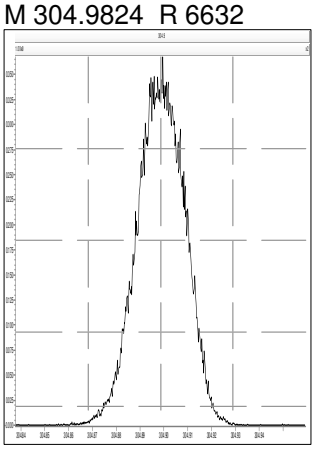
M 254.9856 R 6329



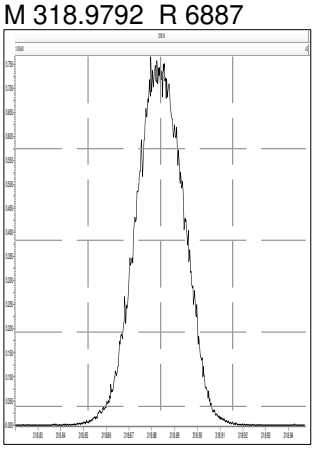
M 268.9824 R 6329



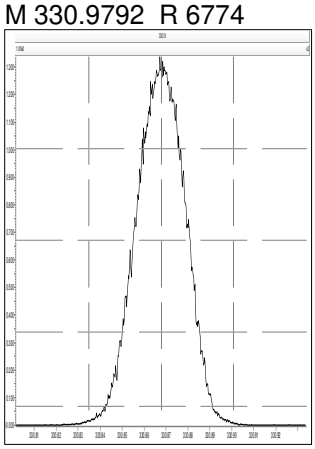
M 304.9824 R 6632



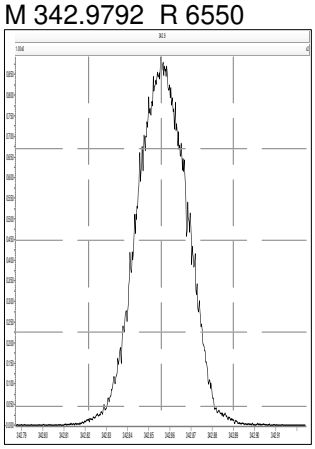
M 318.9792 R 6887



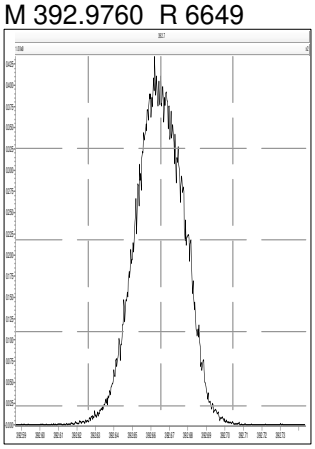
M 330.9792 R 6774



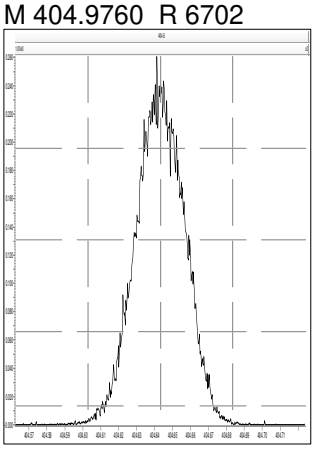
M 342.9792 R 6550



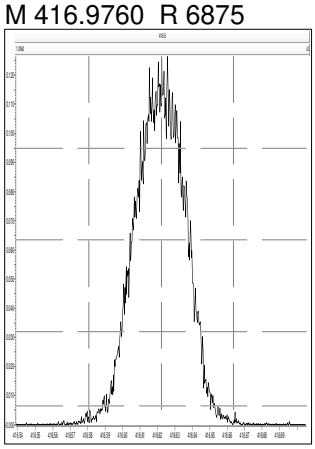
M 392.9760 R 6649



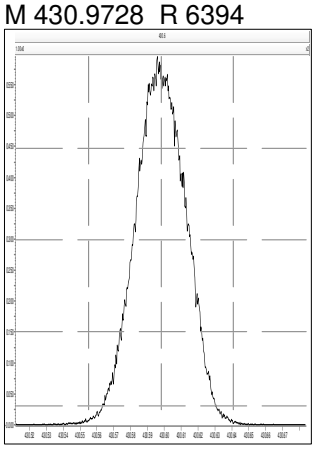
M 404.9760 R 6702



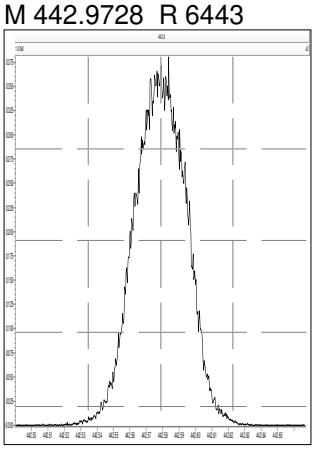
M 416.9760 R 6875



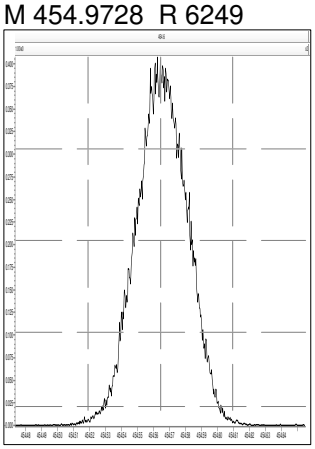
M 430.9728 R 6394



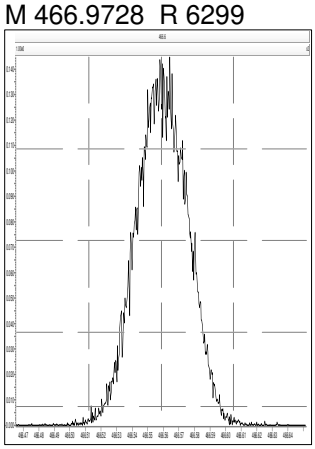
M 442.9728 R 6443



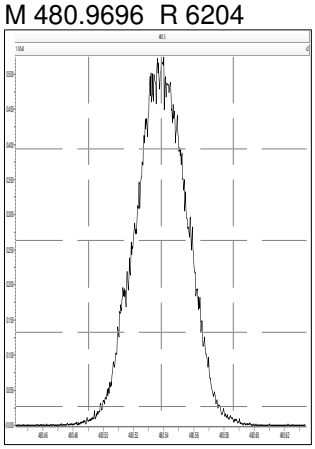
M 454.9728 R 6249



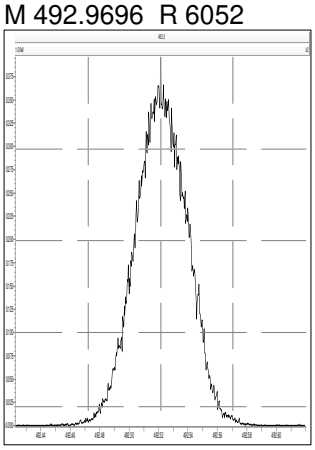
M 466.9728 R 6299



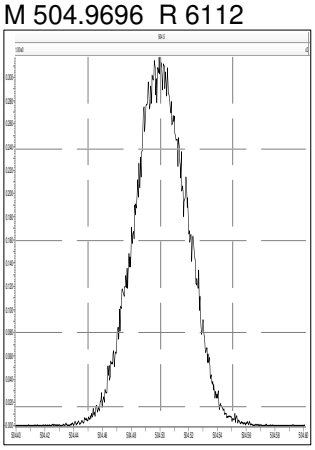
M 480.9696 R 6204



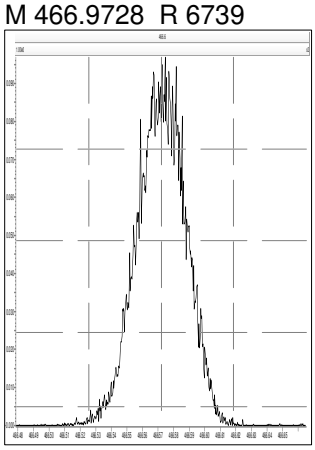
M 492.9696 R 6052



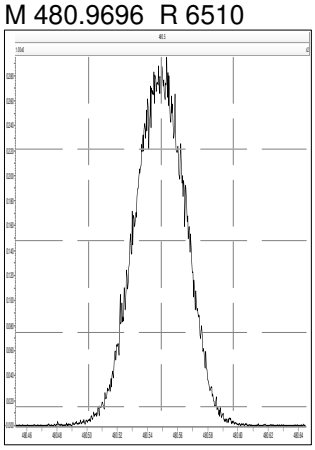
M 504.9696 R 6112



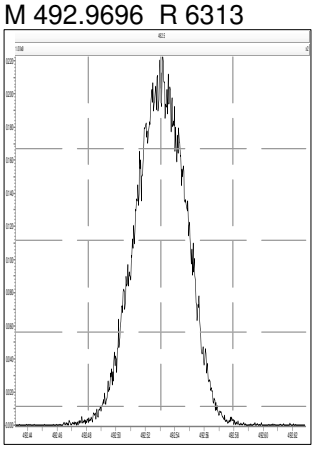
M 466.9728 R 6739



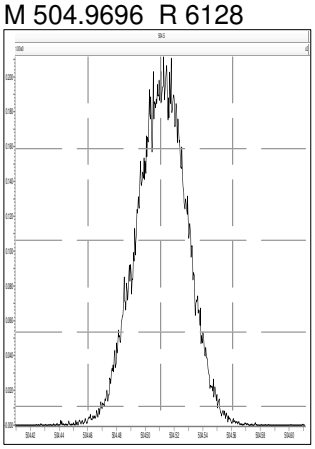
M 480.9696 R 6510



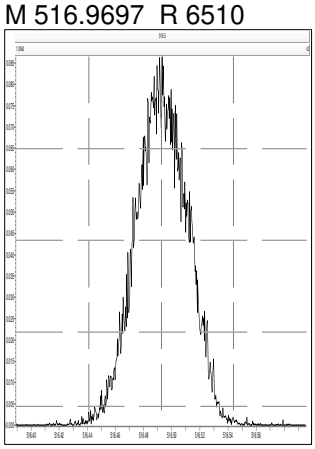
M 492.9696 R 6313



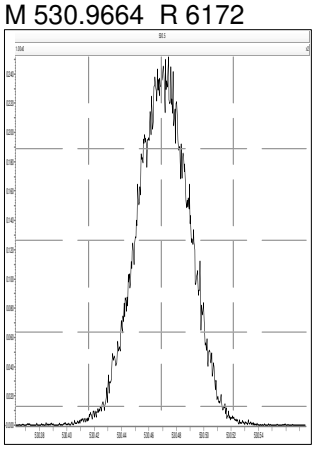
M 504.9696 R 6128



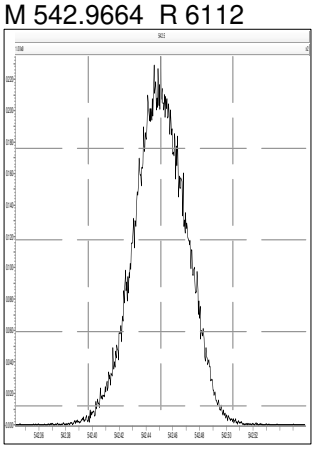
M 516.9697 R 6510



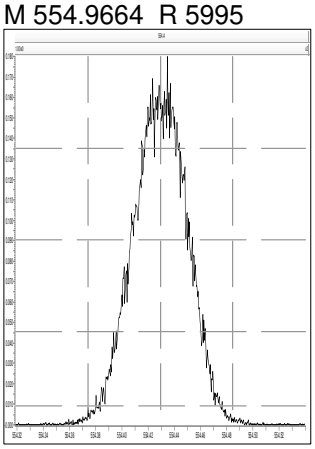
M 530.9664 R 6172



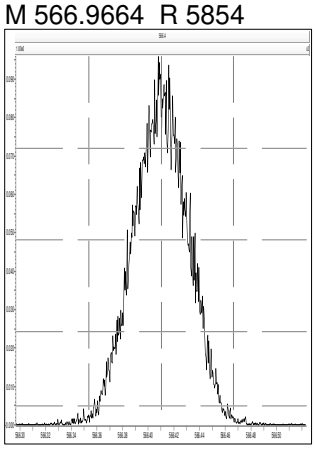
M 542.9664 R 6112



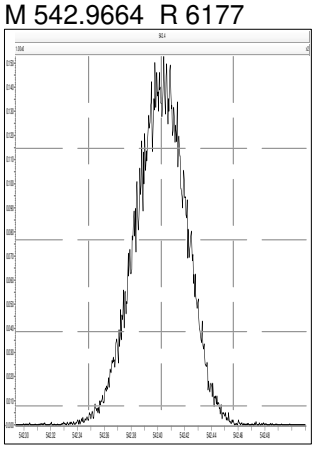
M 554.9664 R 5995



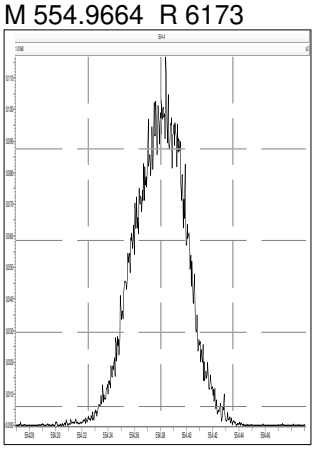
M 566.9664 R 5854



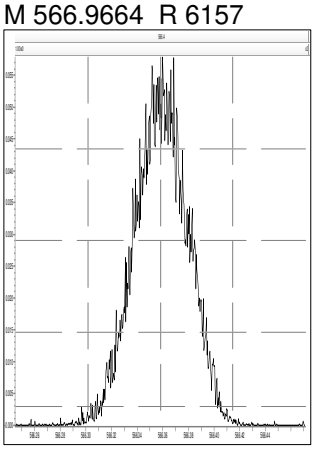
M 542.9664 R 6177



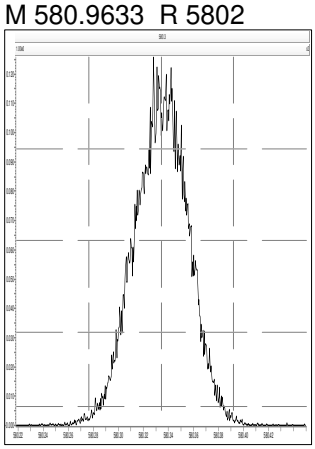
M 554.9664 R 6173



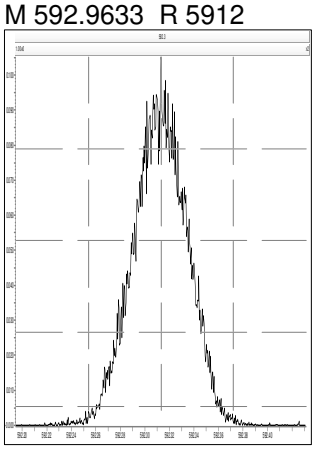
M 566.9664 R 6157



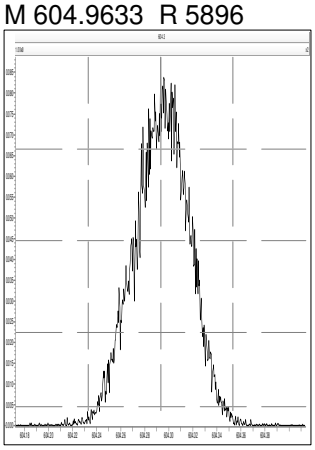
M 580.9633 R 5802



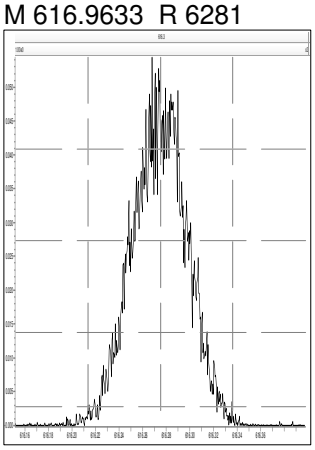
M 592.9633 R 5912



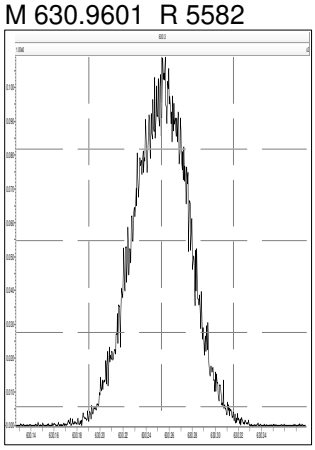
M 604.9633 R 5896



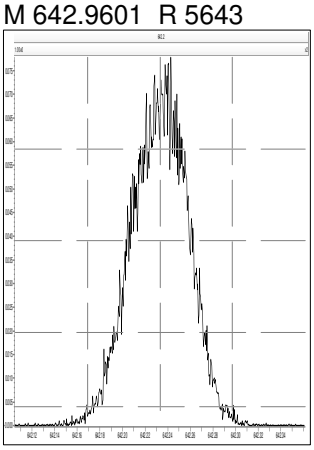
M 616.9633 R 6281



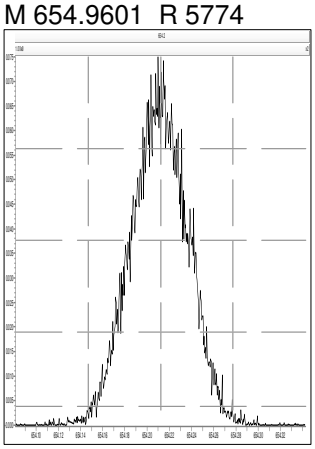
M 630.9601 R 5582



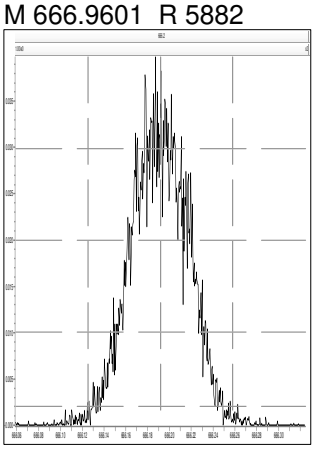
M 642.9601 R 5643



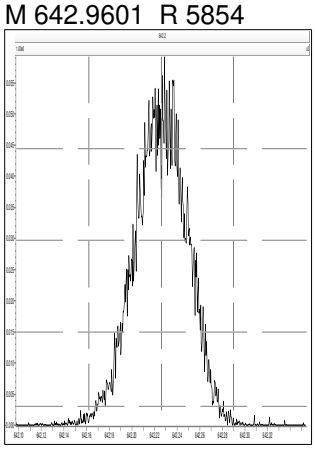
M 654.9601 R 5774



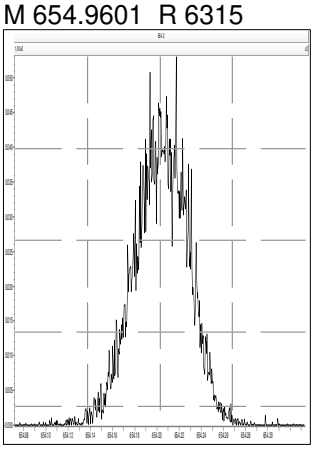
M 666.9601 R 5882



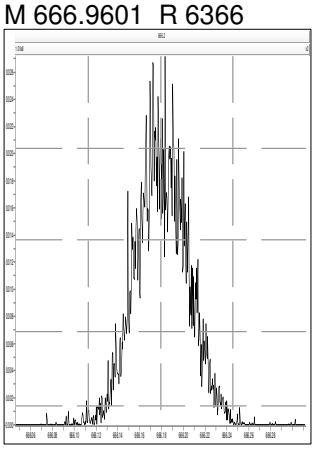
M 642.9601 R 5854



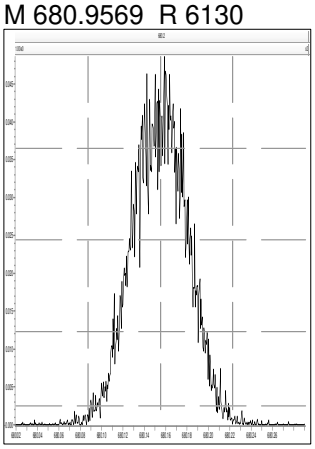
M 654.9601 R 6315



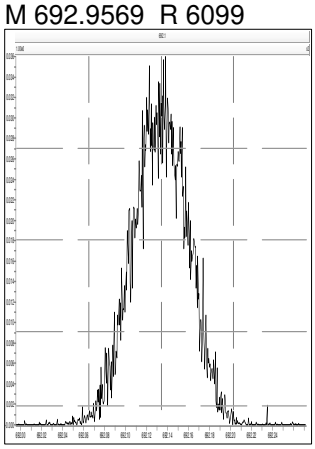
M 666.9601 R 6366



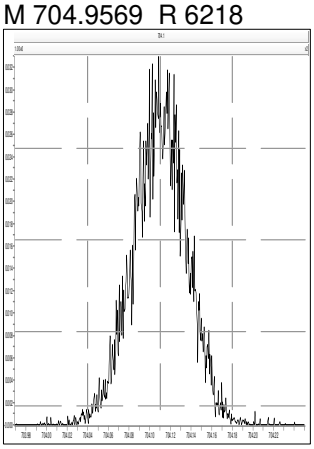
M 680.9569 R 6130



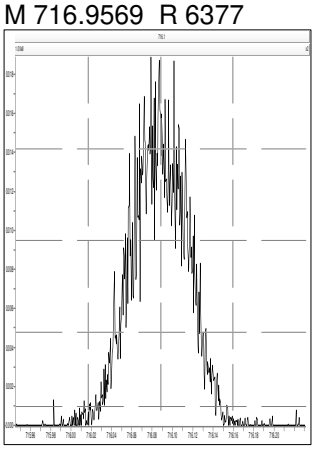
M 692.9569 R 6099



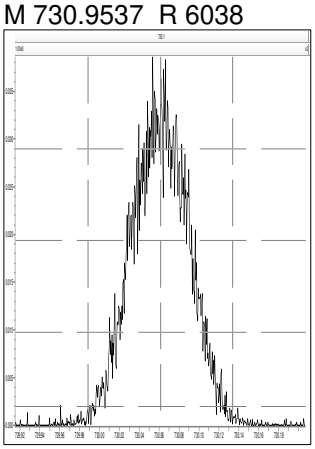
M 704.9569 R 6218



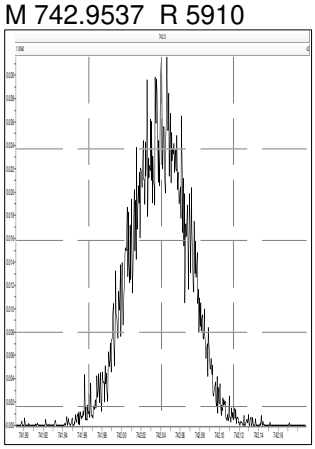
M 716.9569 R 6377



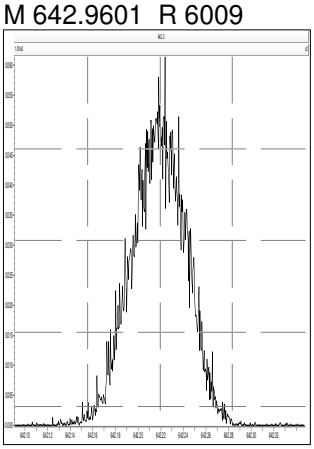
M 730.9537 R 6038



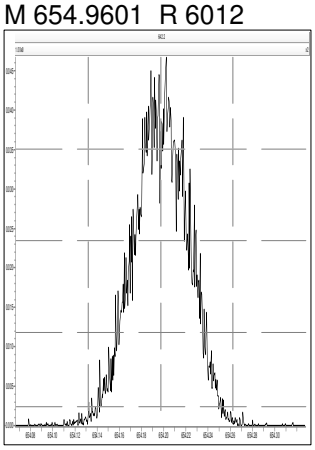
M 742.9537 R 5910



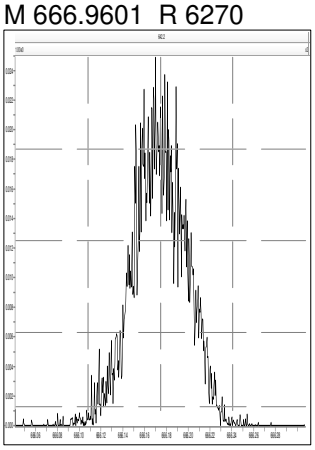
M 642.9601 R 6009



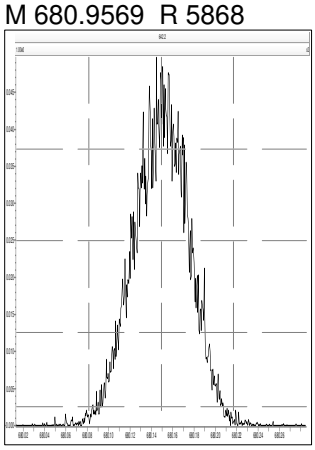
M 654.9601 R 6012



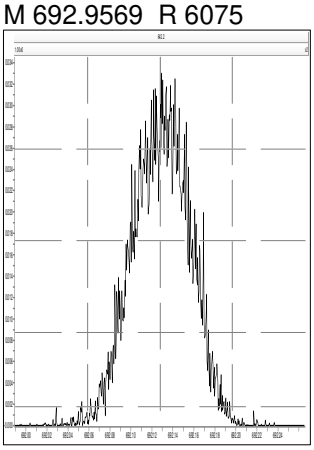
M 666.9601 R 6270



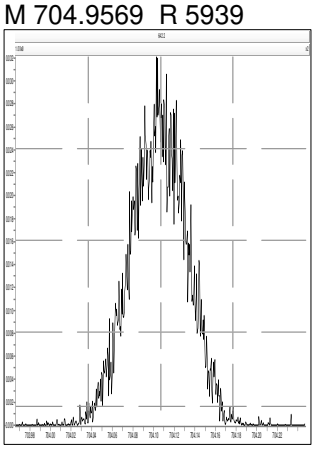
M 680.9569 R 5868



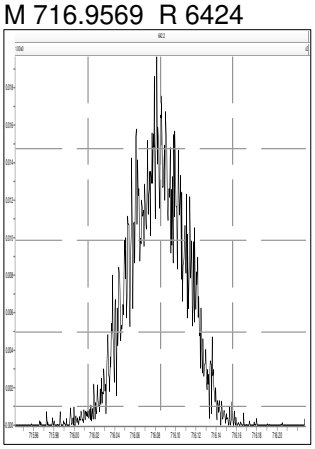
M 692.9569 R 6075



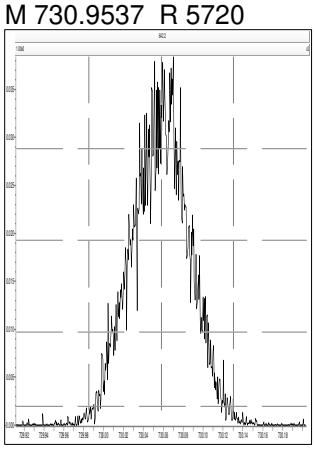
M 704.9569 R 5939



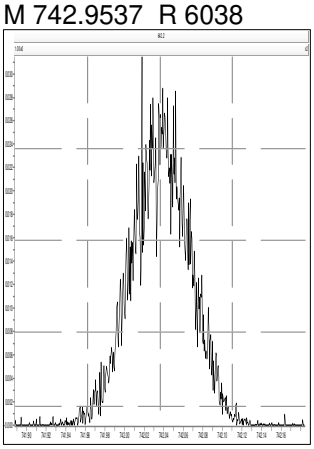
M 716.9569 R 6424



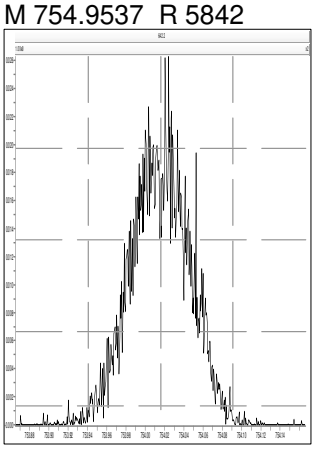
M 730.9537 R 5720



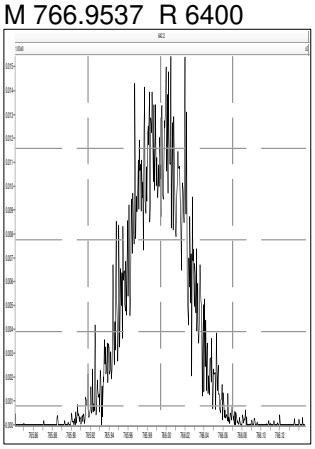
M 742.9537 R 6038



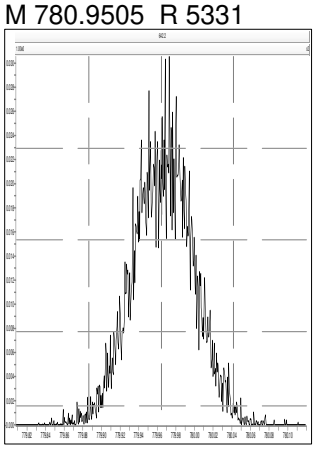
M 754.9537 R 5842



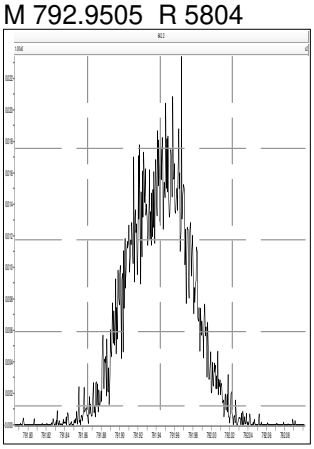
M 766.9537 R 6400



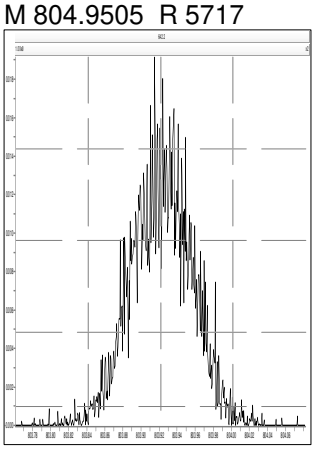
M 780.9505 R 5331



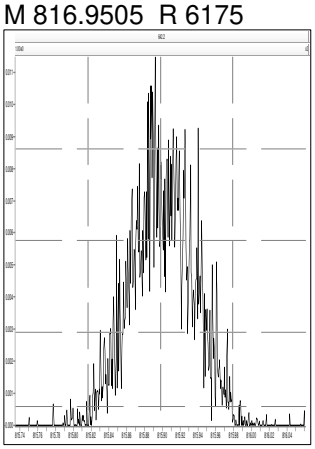
M 792.9505 R 5804



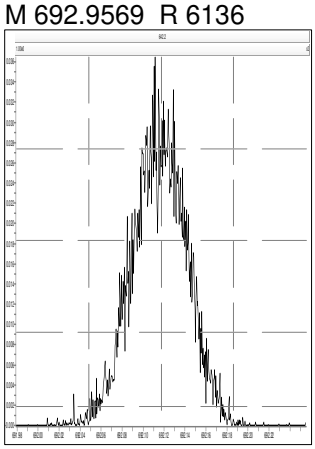
M 804.9505 R 5717



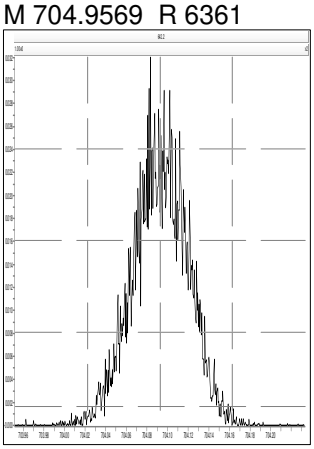
M 816.9505 R 6175



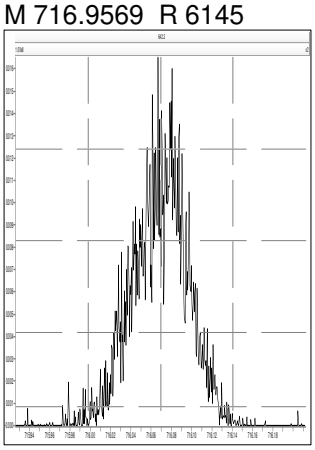
M 692.9569 R 6136



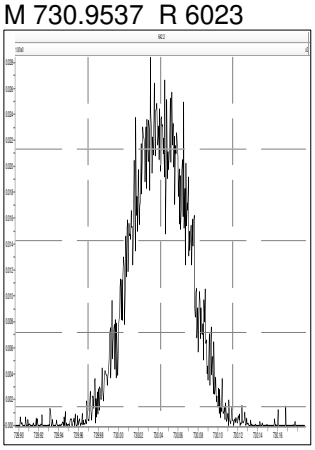
M 704.9569 R 6361



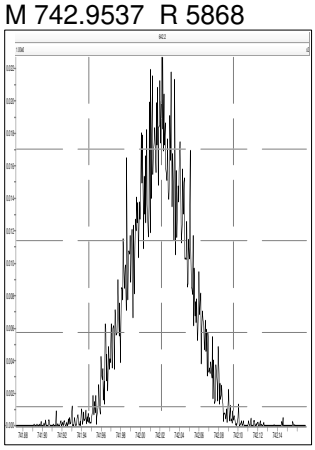
M 716.9569 R 6145



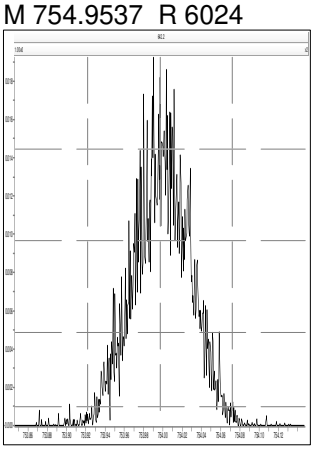
M 730.9537 R 6023



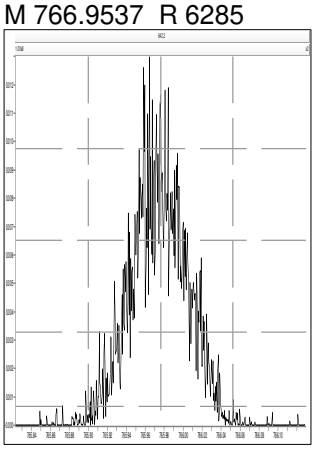
M 742.9537 R 5868



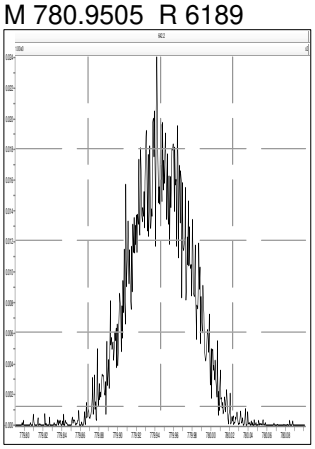
M 754.9537 R 6024



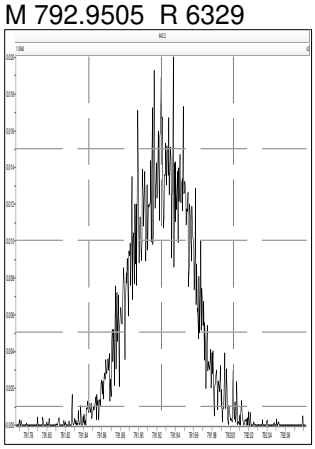
M 766.9537 R 6285



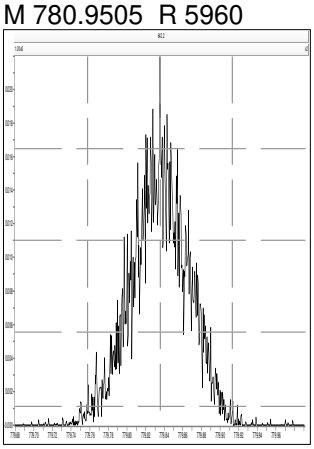
M 780.9505 R 6189



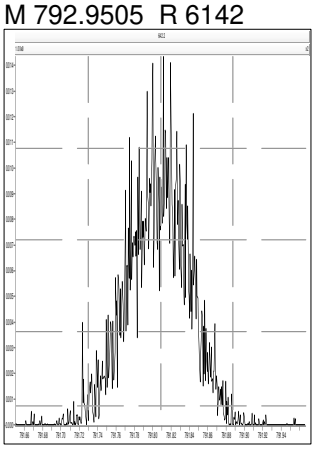
M 792.9505 R 6329



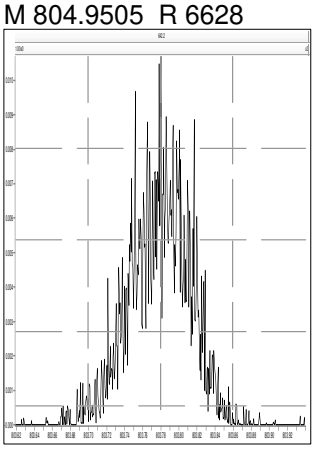
M 780.9505 R 5960



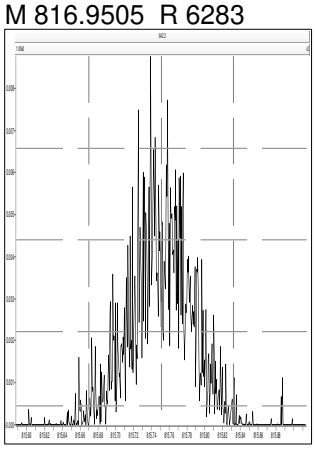
M 792.9505 R 6142



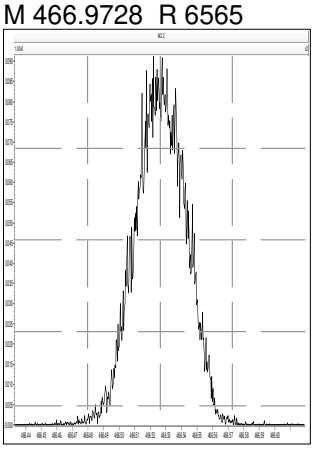
M 804.9505 R 6628



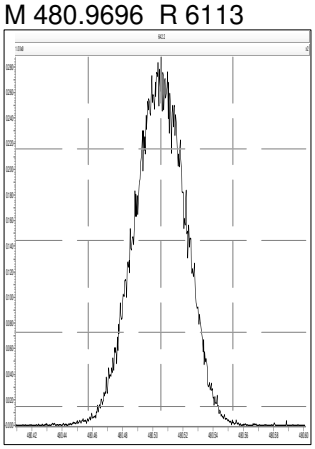
M 816.9505 R 6283



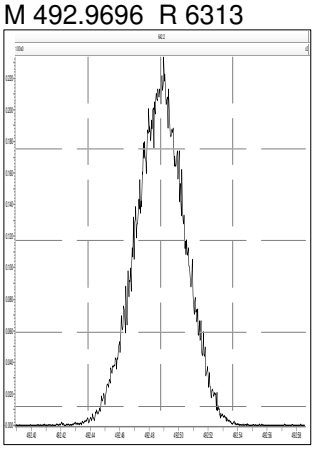
M 466.9728 R 6565



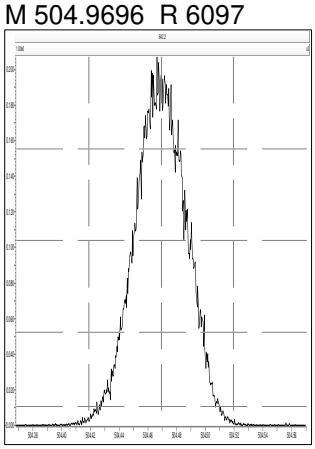
M 480.9696 R 6113



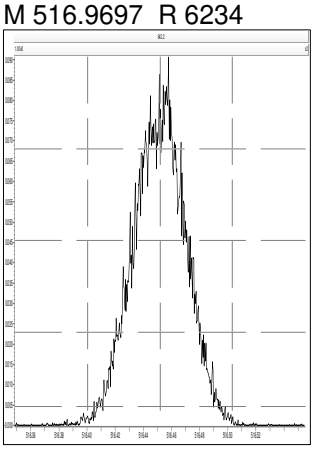
M 492.9696 R 6313



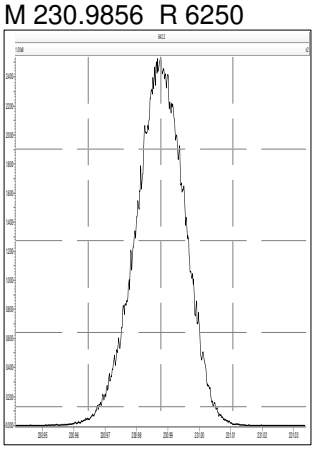
M 504.9696 R 6097



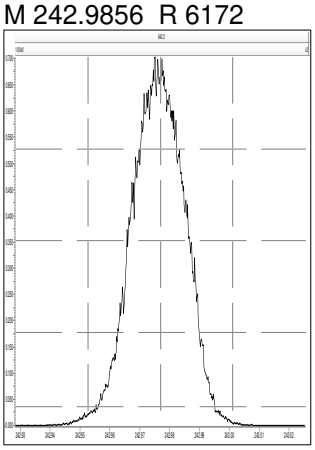
M 516.9697 R 6234



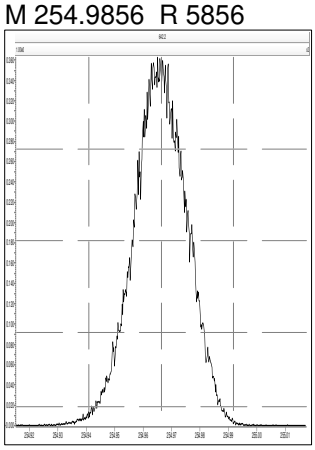
M 230.9856 R 6250



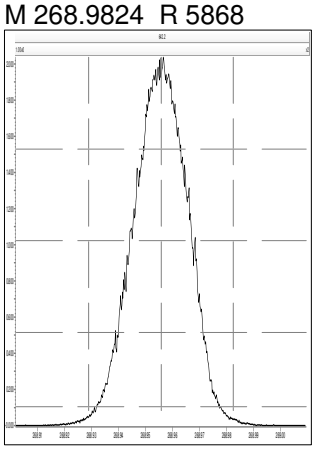
M 242.9856 R 6172



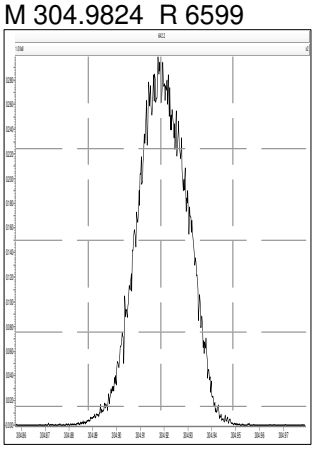
M 254.9856 R 5856



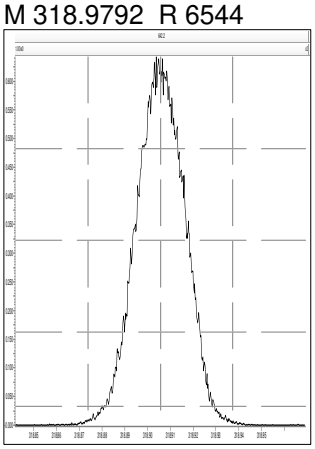
M 268.9824 R 5868



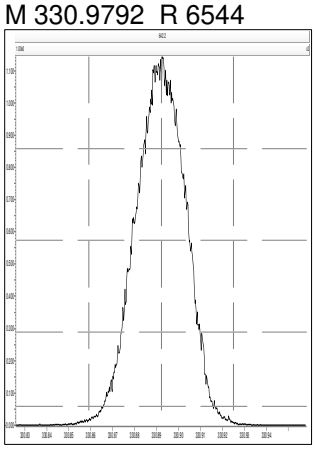
M 304.9824 R 6599



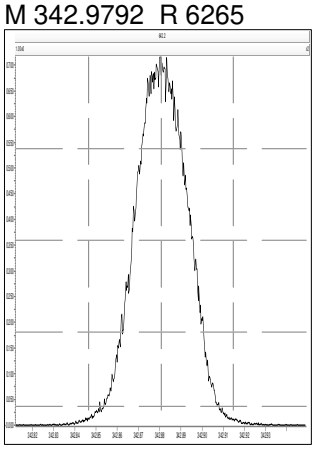
M 318.9792 R 6544



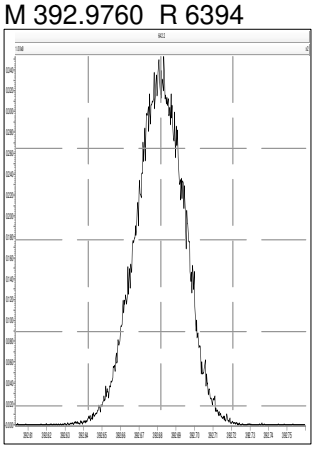
M 330.9792 R 6544



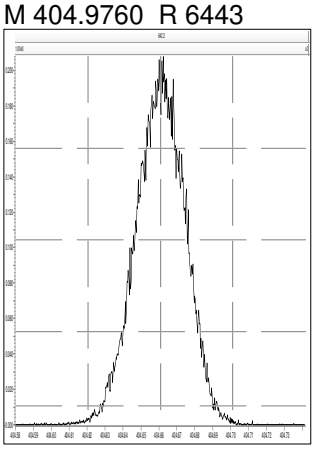
M 342.9792 R 6265



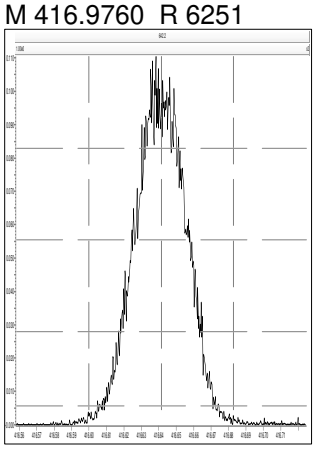
M 392.9760 R 6394



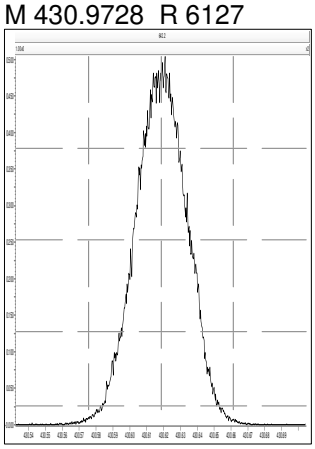
M 404.9760 R 6443



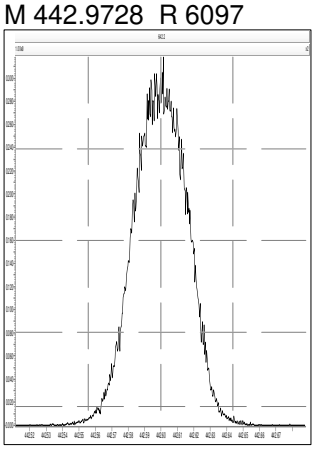
M 416.9760 R 6251



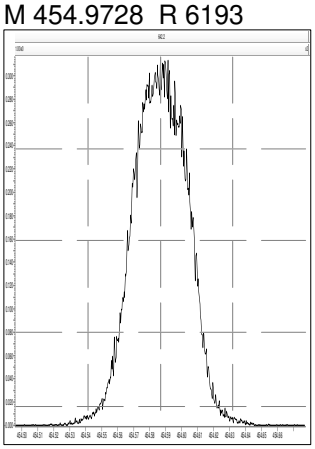
M 430.9728 R 6127



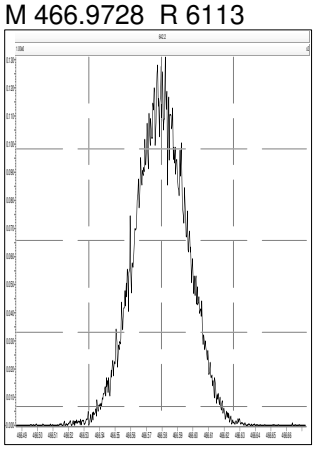
M 442.9728 R 6097



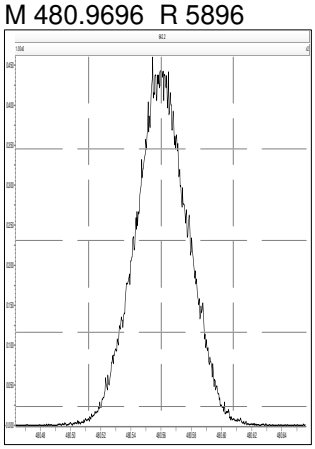
M 454.9728 R 6193



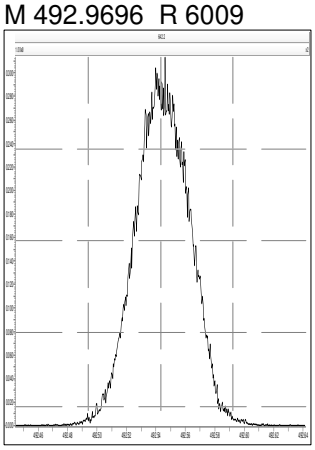
M 466.9728 R 6113



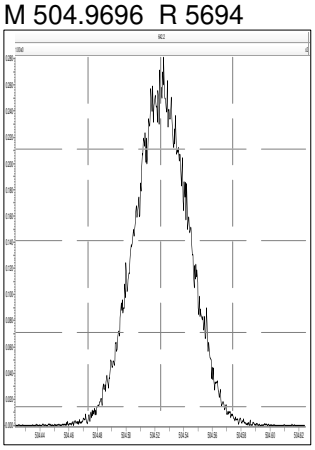
M 480.9696 R 5896



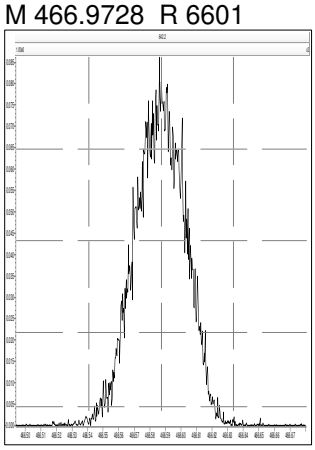
M 492.9696 R 6009



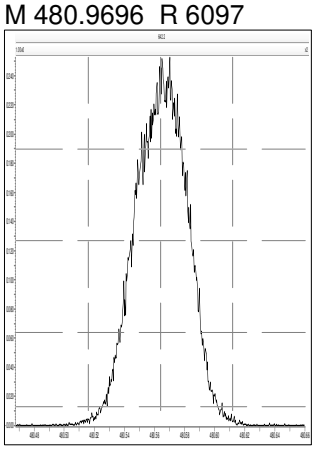
M 504.9696 R 5694



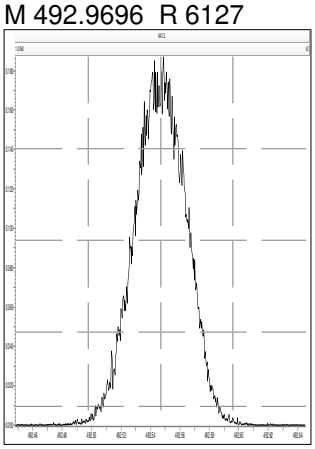
M 466.9728 R 6601



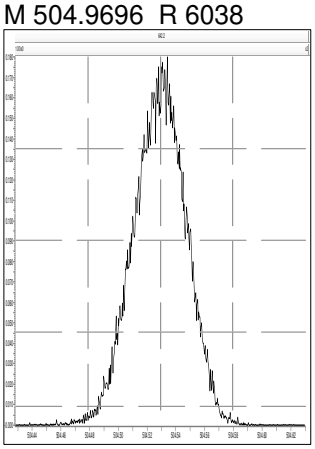
M 480.9696 R 6097



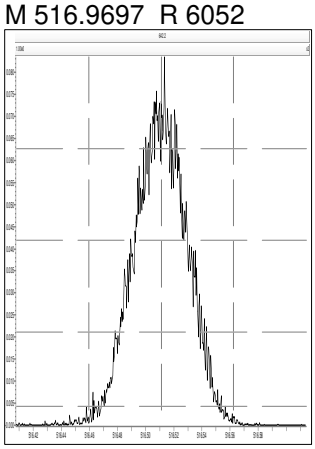
M 492.9696 R 6127



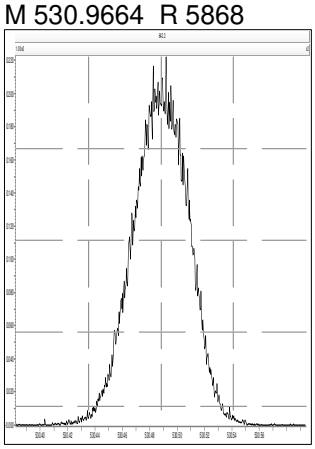
M 504.9696 R 6038



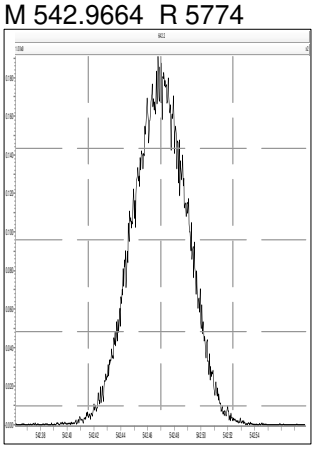
M 516.9697 R 6052



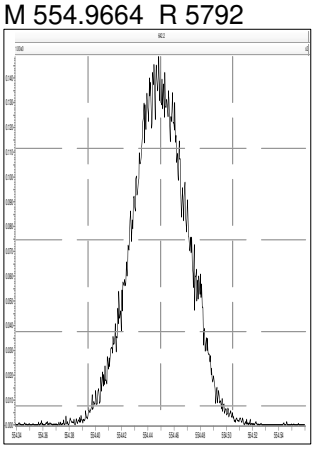
M 530.9664 R 5868



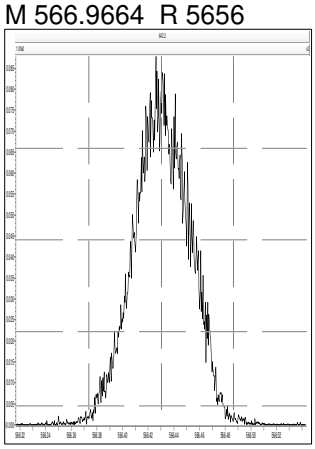
M 542.9664 R 5774



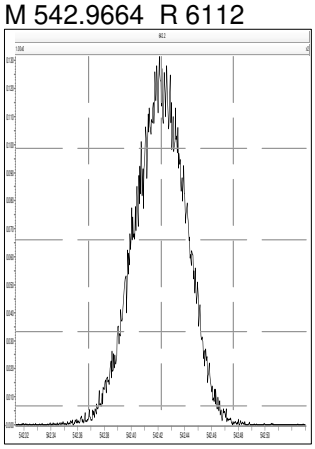
M 554.9664 R 5792



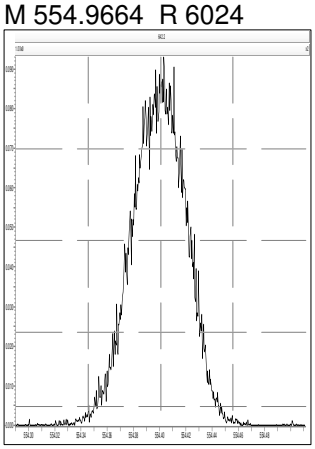
M 566.9664 R 5656



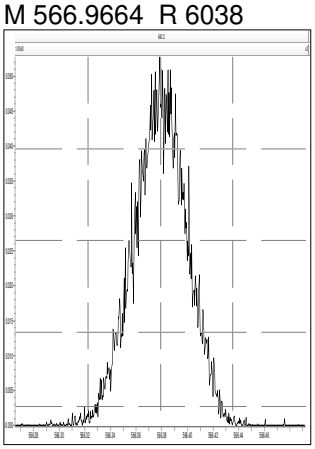
M 542.9664 R 6112



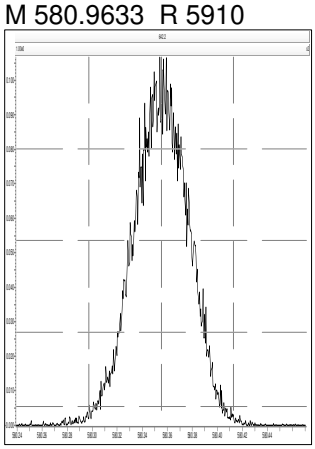
M 554.9664 R 6024



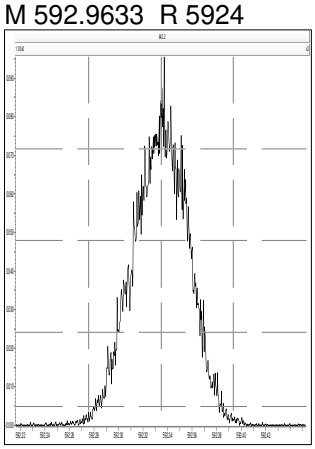
M 566.9664 R 6038



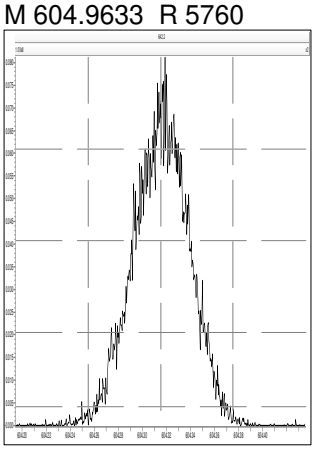
M 580.9633 R 5910



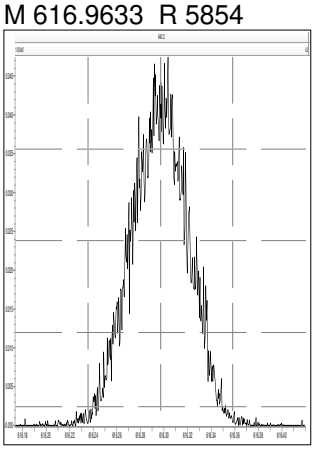
M 592.9633 R 5924



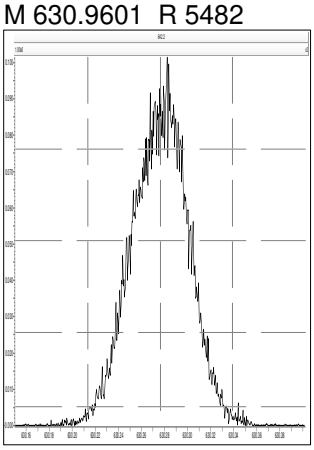
M 604.9633 R 5760



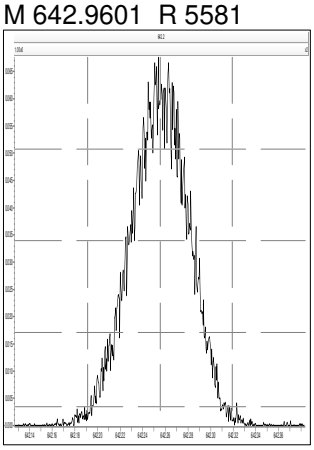
M 616.9633 R 5854



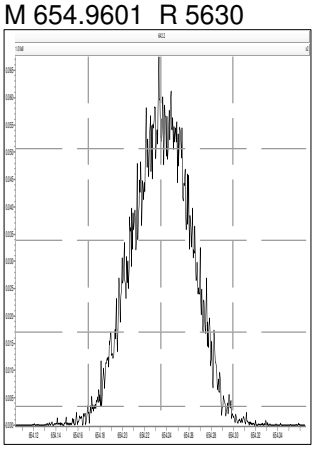
M 630.9601 R 5482



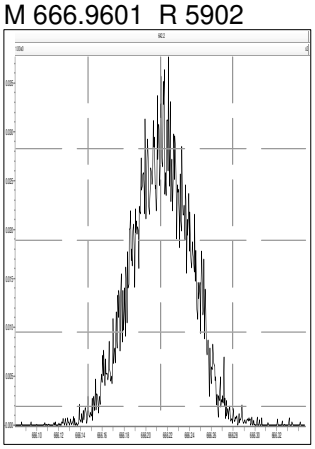
M 642.9601 R 5581



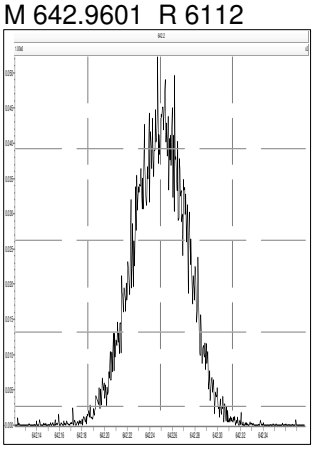
M 654.9601 R 5630



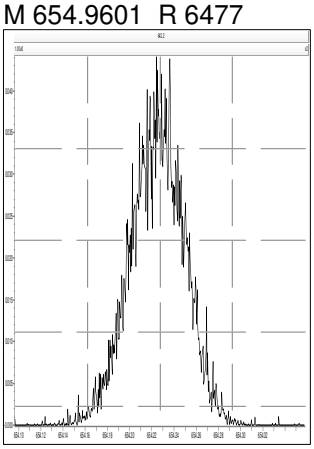
M 666.9601 R 5902



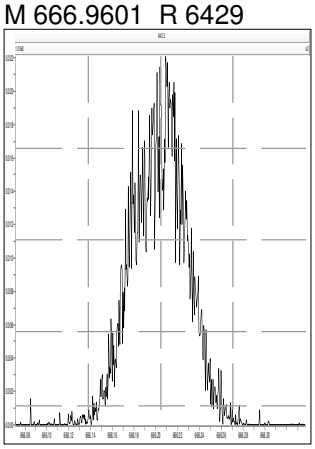
M 642.9601 R 6112



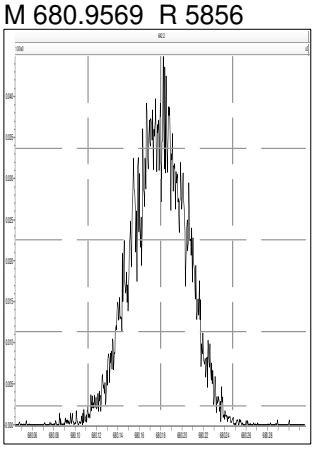
M 654.9601 R 6477



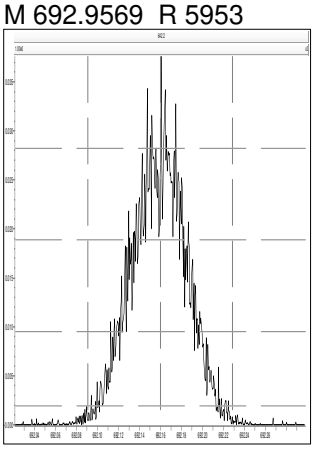
M 666.9601 R 6429



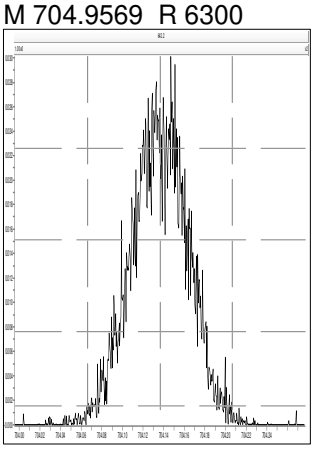
M 680.9569 R 5856



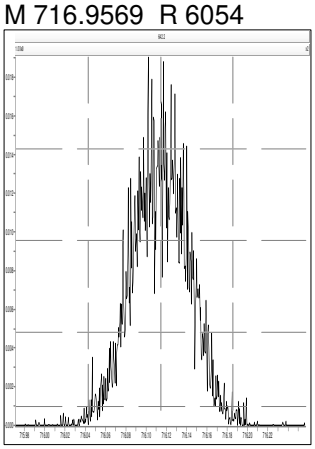
M 692.9569 R 5953



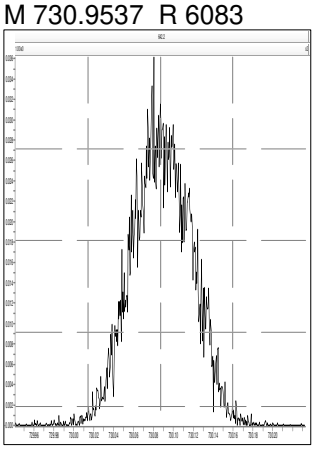
M 704.9569 R 6300



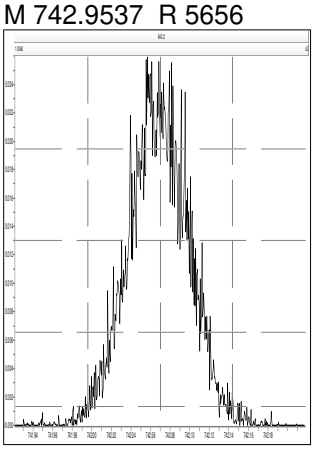
M 716.9569 R 6054



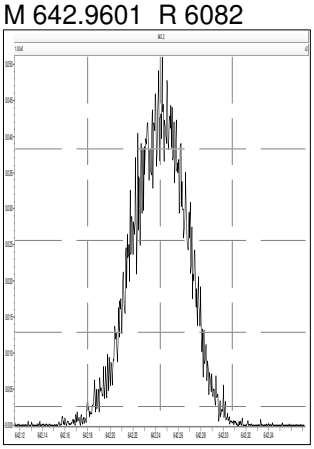
M 730.9537 R 6083



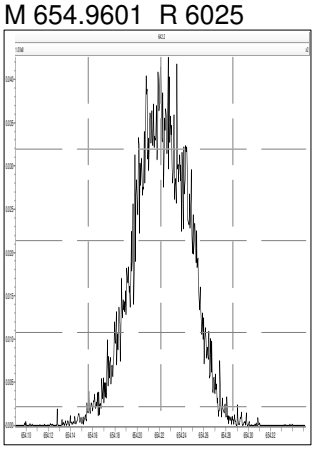
M 742.9537 R 5656



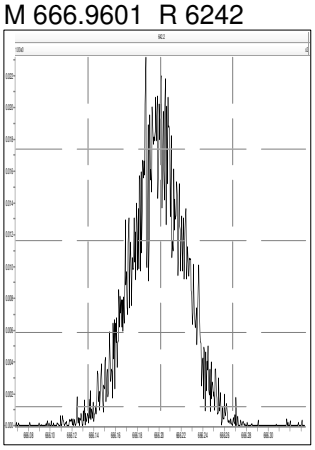
M 642.9601 R 6082



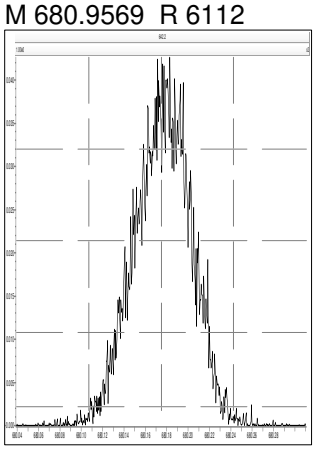
M 654.9601 R 6025



M 666.9601 R 6242



M 680.9569 R 6112



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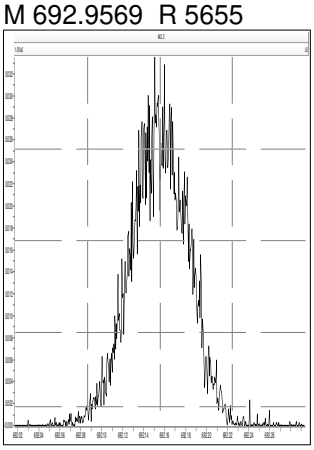
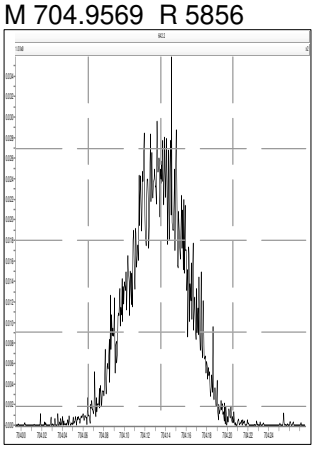
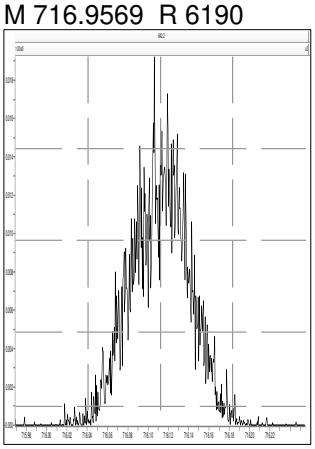


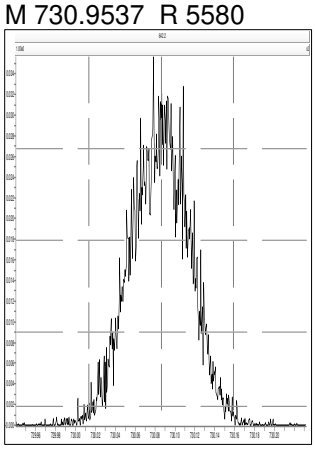
M 704.9569 R 5856



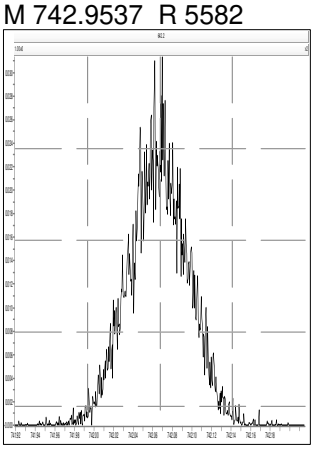
M 716.9569 R 6190



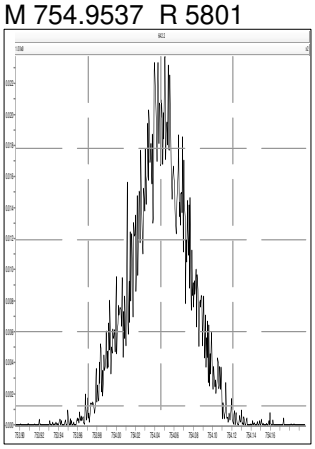
M 730.9537 R 5580



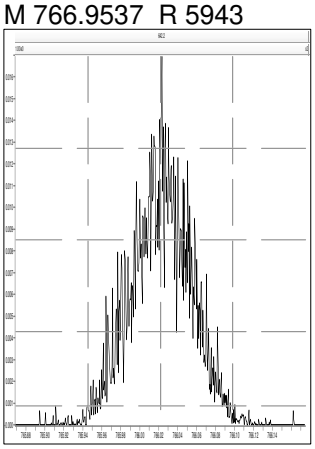
M 742.9537 R 5582



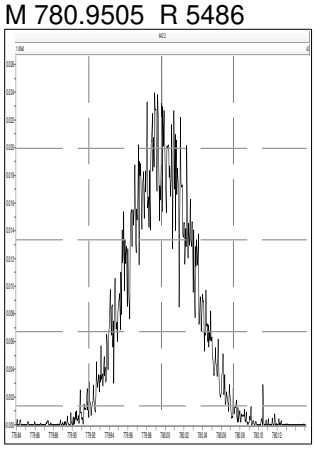
M 754.9537 R 5801



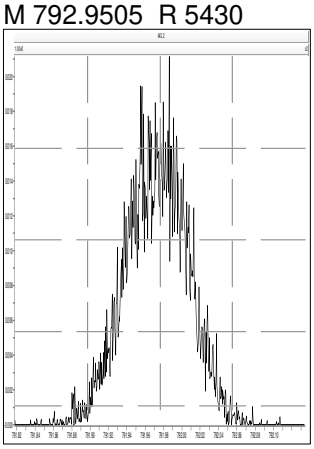
M 766.9537 R 5943



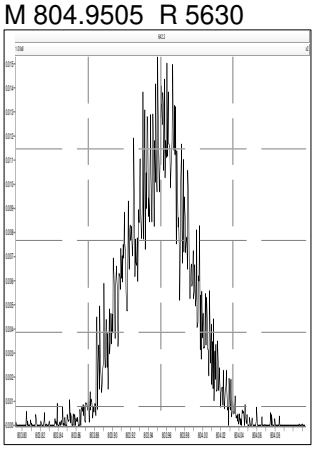
M 780.9505 R 5486



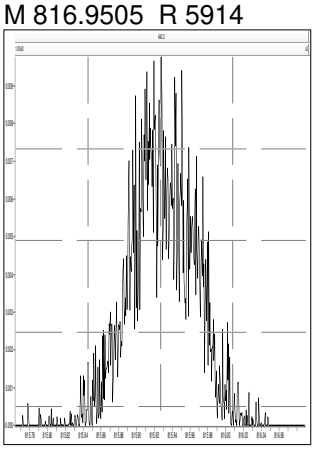
M 792.9505 R 5430



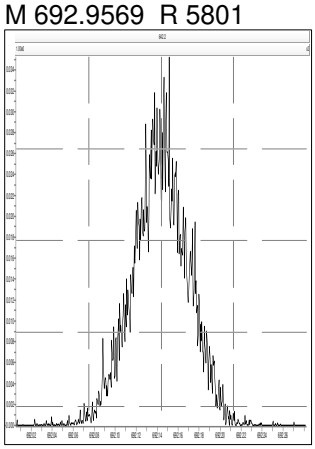
M 804.9505 R 5630



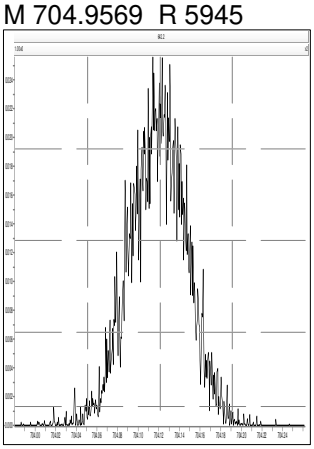
M 816.9505 R 5914



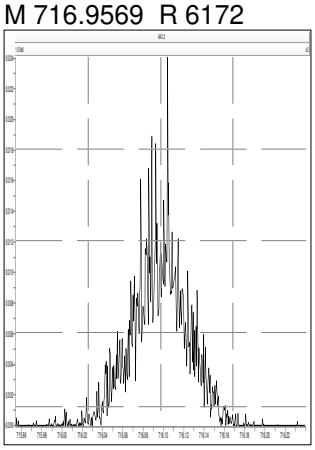
M 692.9569 R 5801



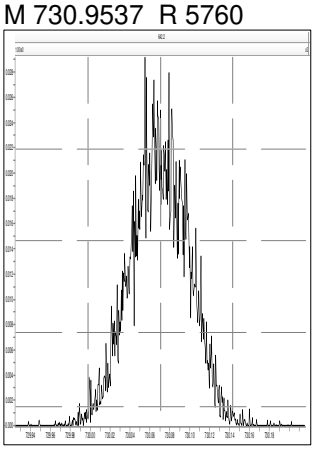
M 704.9569 R 5945



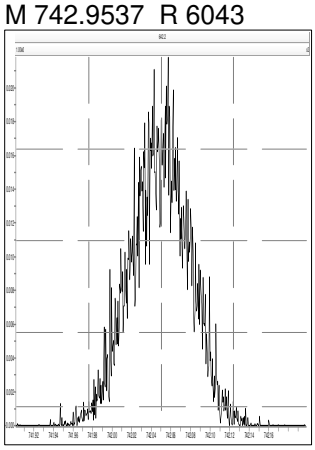
M 716.9569 R 6172



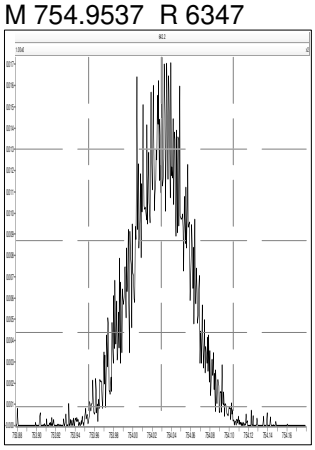
M 730.9537 R 5760



M 742.9537 R 6043



M 754.9537 R 6347



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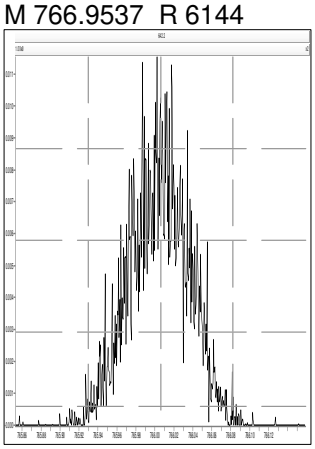
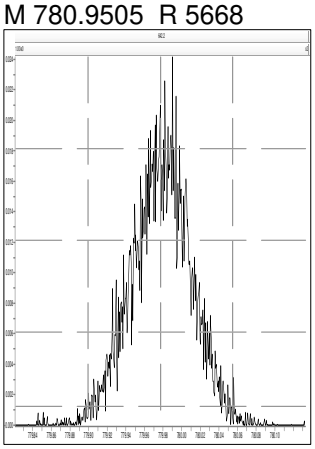
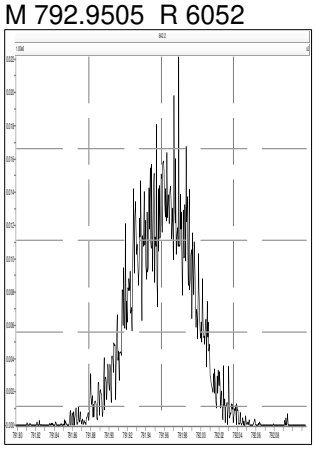


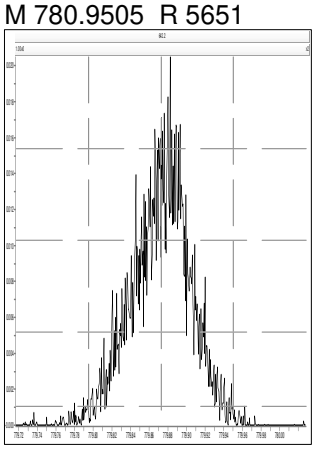
M 780.9505 R 5668



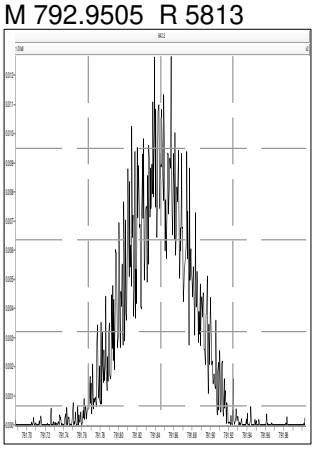
M 792.9505 R 6052



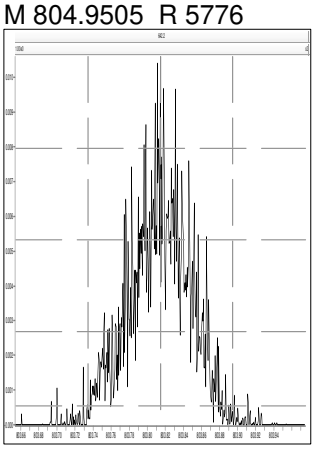
M 780.9505 R 5651



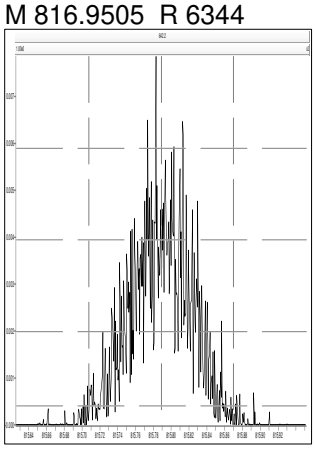
M 792.9505 R 5813



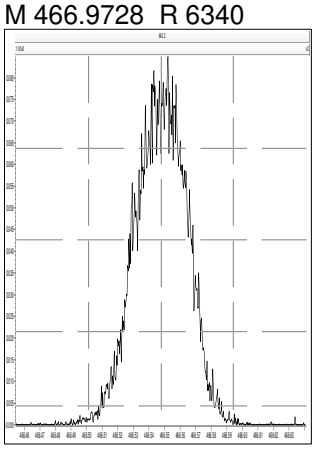
M 804.9505 R 5776



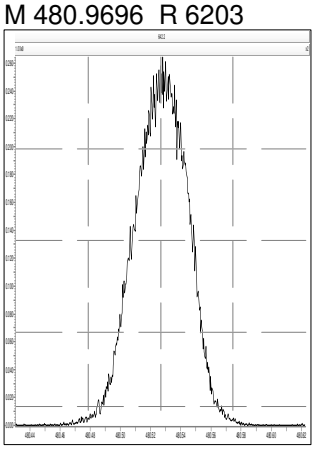
M 816.9505 R 6344



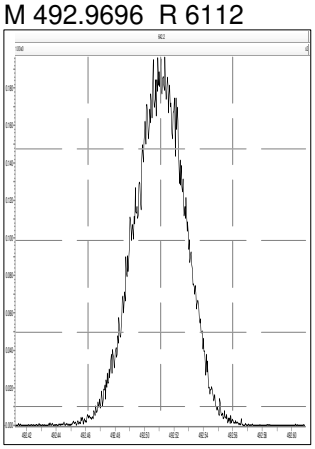
M 466.9728 R 6340



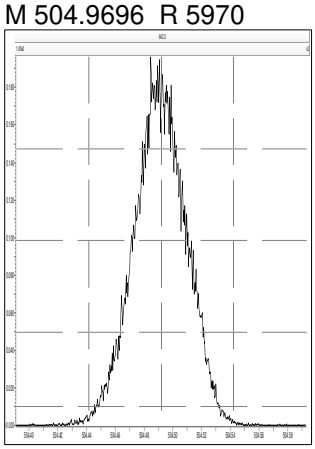
M 480.9696 R 6203



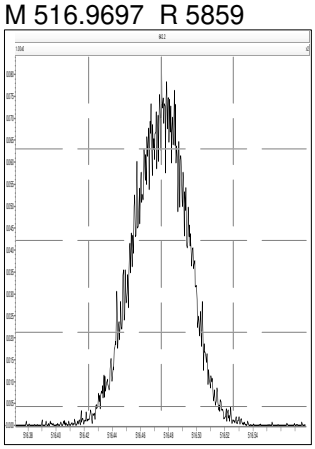
M 492.9696 R 6112



M 504.9696 R 5970



M 516.9697 R 5859



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2	10-210914A02	WG3603574-2 X5	LCS X5	PBDEX_1614	PBDEX_1614	Tray1:15	1.500000
3	10-210914A03	WG3696493-2 X5	LCS X5	PBDEX_1614	PBDEX_1614	Tray1:27	1.500000
4	10-210914A04	TOL1	IB	PBDEX_1614	PBDEX_1614	Tray1:7	1.500000
5	10-210914A05	TOL2	IB	PBDEX_1614	PBDEX_1614	Tray1:8	1.500000
6	10-210914A06	WG3555242-1 X5	MBLA X5	PBDEX_1614	PBDEX_1614	Tray1:29	1.500000
7	10-210914A07	L2623177-2 X5	DIL X5	PBDEX_1614	PBDEX_1614	Tray1:23	1.500000
8	10-210914A08	L2623177-3 X5	DIL X5	PBDEX_1614	PBDEX_1614	Tray1:24	1.500000
9	10-210914A09	L2623177-4 X5	DIL X5	PBDEX_1614	PBDEX_1614	Tray1:25	1.500000
10	10-210914A10	L2625428-2 X 15	DIL X15	PBDEX_1614	PBDEX_1614	Tray1:21	1.500000
11	10-210914A11	L2616632-1 X5	REWORK X5	PBDEX_1614	PBDEX_1614	Tray1:30	1.500000
12	10-210914A12	L2616632-7 X5	REWORK X5	PBDEX_1614	PBDEX_1614	Tray1:31	1.500000
13	10-210914A13	TOL1	IB	PBDEX_1614	PBDEX_1614	Tray1:7	1.500000
14	10-210914A14	L2617843-1 X15	DIL X15	PBDEX_1614	PBDEX_1614	Tray1:32	1.500000
15	10-210914A15	WG3585603-4 X15	DIL X15	PBDEX_1614	PBDEX_1614	Tray1:33	1.500000
16	10-210914A16	H10-21-CCV-0125	PBDEX-CS#3-003	PBDEX_1614	PBDEX_1614	Tray1:1	1.500000
17	10-210914A17	TOL1	IB	PBDEX_1614	PBDEX_1614	Tray1:7	1.500000
18	10-210914A18	L2625428-2 X 150	DIL X150	PBDEX_1614	PBDEX_1614	Tray1:34	1.500000
19	10-210914A19	L2617843-1 X 150	DIL X150	PBDEX_1614	PBDEX_1614	Tray1:35	1.500000
20	10-210914A20	L2625428-2 X 75	DILX75	PBDEX_1614	PBDEX_1614	Tray1:36	1.500000
21	10-210914A21	H10-21-CCV-0126	PBDEX-CS#3-003	PBDEX_1614	PBDEX_1614	Tray1:1	1.500000
22	10-210914A22	L2625428-2 X 15	DIL X15	PBDEX_1614	PBDEX_1614	Tray1:21	1.500000
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24	10-210914A24	L2625428-2 X 60	DIL X60	PBDEX_1614	PBDEX_1614	Tray1:37	1.500000
25	10-210914A25	H10-21-CCV-0127	PBDEX-CS#3-003	PBDEX_1614	PBDEX_1614	Tray1:1	1.500000
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VP✓

MR✓

CCV✓

	File Name	Sample ID	File Text	Sample Type	Na Conc A	Na Conc B	Na Conc C	Na Conc D	Na Conc E	Na Conc F	Na Conc G	Na Conc H	ES Conc 1	ES Conc 2	ES Conc 3	ES Conc 4	CS Conc	IS Conc 1	IS Conc 2
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2	10-210914A02	WG3603574-2 X5	LCS X5	QC	800	1200	1600	2000	2400	3200	4000	8000	2000	4000	10000	20000	2000	2000	10000
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4	10-210914A04	TOL1	IB	Analyte	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
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6	10-210914A06	WG3555242-1 X5	MBLA X5	Analyte	---	---	---	---	---	---	---	---	2000	4000	10000	20000	4000	2000	10000
7	10-210914A07	L2623177-2 X5	DIL X5	Analyte	---	---	---	---	---	---	---	---	1000	2000	5000	10000	2000	2000	10000
8	10-210914A08	L2623177-3 X5	DIL X5	Analyte	---	---	---	---	---	---	---	---	1000	2000	5000	10000	2000	2000	10000
9	10-210914A09	L2623177-4 X5	DIL X5	Analyte	---	---	---	---	---	---	---	---	1000	2000	5000	10000	2000	2000	10000
10	10-210914A10	L2625428-2 X 15	DIL X15	Analyte	---	---	---	---	---	---	---	---	2000	4000	10000	20000	2000	2000	10000
11	10-210914A11	L2616632-1 X5	REWORK X5	Analyte	---	---	---	---	---	---	---	---	1000	2000	5000	10000	2000	1000	5000
12	10-210914A12	L2616632-7 X5	REWORK X5	Analyte	---	---	---	---	---	---	---	---	1000	2000	5000	10000	2000	1000	5000
13	10-210914A13	TOL1	IB	Analyte	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
14	10-210914A14	L2617843-1 X15	DIL X15	Analyte	---	---	---	---	---	---	---	---	2000	4000	10000	20000	2000	2000	10000
15	10-210914A15	WG3585603-4 X15	DIL X15	Analyte	---	---	---	---	---	---	---	---	2000	4000	10000	20000	2000	2000	10000
16	10-210914A16	H10-21-CCV-0125	PBDEX-CS#3-003	QC	20	30	40	50	60	80	100	200	50	100	250	500	50	50	250
17	10-210914A17	TOL1	IB	Analyte	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
18	10-210914A18	L2625428-2 X 150	DIL X150	QC	---	---	---	---	---	---	---	---	2000	4000	10000	20000	2000	2000	10000
19	10-210914A19	L2617843-1 X150	DIL X150	QC	---	---	---	---	---	---	---	---	2000	4000	10000	20000	2000	2000	10000
20	10-210914A20	L2625428-2 X 75	DIL X75	QC	---	---	---	---	---	---	---	---	2000	4000	10000	20000	2000	2000	10000
21	10-210914A21	H10-21-CCV-0126	PBDEX-CS#3-003	QC	20	30	40	50	60	80	100	200	50	100	250	500	50	50	250
22	10-210914A23	TOL2	IB	Analyte	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
23	10-210914A24	L2625428-2 X 60	DIL X60	Analyte	---	---	---	---	---	---	---	---	2000	4000	10000	20000	2000	2000	10000
24	10-210914A25	H10-21-CCV-0127	PBDEX-CS#3-003	QC	20	30	40	50	60	80	100	200	50	100	250	500	50	50	250

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Quantify Sample Summary Report **MassLynx MassLynx V4.1 SCN 901**

Dataset: I:\Organics Instrument\HIGHRES GCMS Completed Results Files\HR-10\2021\2109\10-210914A-Q3.qld

Last Altered: Thursday, September 16, 2021 15:21:47 Eastern Daylight Time
Printed: Friday, September 17, 2021 11:00:37 Eastern Daylight Time

Method: C:\MassLynx\PBDE.PRO\MethDB\PBDEX-DB5-1-210913B.mdb 14 Sep 2021 11:10:04
Calibration: C:\MassLynx\PBDE.PRO\CurveDB\10-210913B-ICAL-PBDE.cdb 14 Sep 2021 11:07:06

Name: 10-210914A21, Date: 15-Sep-2021, Time: 14:02:36, ID: H10-21-CCV-0126, Description: PBDEX-CS#3-003, Vial: Tray1:1

	Target Analyte	#Hom	Total Area	Ion1 Area	Ion2 Area	Ra	Ra Fail=YES	RT	RRT	RT LCL	RT UCL	Conc.	%Rec	Mod.Comment	Noise 1	Noise 2
1	*BDE-1		667799.313	332907	334892	0.99	NO	4.91	0.96	4.88	4.95	18.857311	94.3		25891	38397
2	BDE-2		1048017.6...	521383	526635	0.99	NO	5.01	0.98	4.97	5.04	20.141502	100.7		25891	38397
3	BDE-3		1224904.1...	611583	613321	1.00	NO	5.12	1.00	5.09	5.16	19.589003	97.9		25891	38397
4	*BDE-10		381547.891	126628	254920	0.50	NO	6.34	0.89	6.31	6.38	22.027400	110.1		1208	1372
5	BDE-7		378811.031	125925	252886	0.50	NO	6.71	0.94	6.68	6.75	21.724715	108.6		1208	1372
6	BDE-8/BDE-11		1066301.8...	357443	708859	0.50	NO	6.88	0.96	6.85	6.91	42.639516	106.6		1208	1372
7	BDE-12/BDE-13		1230993.0...	414055	816938	0.51	NO	7.00	0.98	6.97	7.03	42.594768	106.5		1208	1372
8	BDE-15		709790.344	236609	473182	0.50	NO	7.14	1.00	7.11	7.17	20.708151	103.5		1208	1372
9	*BDE-30		248856.195	124207	124649	1.00	NO	7.84	0.90	7.80	7.87	22.799885	114.0		1373	1862
10	BDE-32		338759.578	171343	167416	1.02	NO	8.28	0.95	8.25	8.32	22.674181	113.4		1373	1862
11	BDE-17/BDE-25		516828.735	259305	257524	1.01	NO	8.45	0.97	8.42	8.48	45.099421	112.7		1373	1862
12	BDE-28/BDE-33		522089.454	260395	261695	1.00	NO	8.68	1.00	8.65	8.72	43.759868	109.4		1373	1862
13	BDE-35		364014.219	178820	185194	0.97	NO	8.84	1.02	8.80	8.87	22.099137	110.5		1373	1862
14	BDE-37		353885.797	176019	177867	0.99	NO	9.03	1.04	8.99	9.06	21.475828	107.4		1373	1862
15	*PBEB		329203.219	168161	161042	1.04	NO	9.03	0.90	8.99	9.06	23.112889	115.6		310	417
16	*PBB-52		338725.250	205577	133149	1.54	NO	9.14	0.91	9.10	9.17	23.540164	117.7		497	466
17	*HBB		246989.695	71191	175799	0.41	NO	10.01	1.00	9.98	10.04	20.696529	103.5		749	962
18	*BDE-75		214879.766	85917	128962	0.67	NO	10.07	0.95	10.04	10.10	20.572150	102.9		3933	2266
19	BDE-51		261254.641	104519	156735	0.67	NO	10.13	0.96	10.10	10.17	21.084333	105.4		3933	2266
20	BDE-49		161427.449	64296	97131	0.66	NO	10.23	0.97	10.20	10.27	20.450316	102.3		3933	2266
21	BDE-71		185571.375	74350	111221	0.67	NO	10.31	0.98	10.27	10.34	22.879015	114.4		3933	2266
22	BDE-47		229677.219	91022	138656	0.66	NO	10.57	1.00	10.53	10.60	21.393621	107.0		3933	2266
23	BDE-79		266316.938	106286	160031	0.66	NO	10.73	1.02	10.70	10.76	21.569987	107.8		3933	2266
24	BDE-66		164527.570	65639	98889	0.66	NO	10.85	1.03	10.82	10.89	22.693194	113.5		3933	2266
25	BDE-77		227657.969	90840	136818	0.66	NO	11.33	1.00	11.29	11.36	20.019301	100.1		3933	2266
26	*PBB-101		549979.313	279776	270203	1.04	NO	11.48	1.01	11.44	11.51	37.485566	93.7		1001	974
27	*BDE-100		315040.578	158372	156669	1.01	NO	12.21	1.00	12.18	12.24	32.322414	107.7		1493	2414
28	BDE-119/BDE-120		296876.797	149224	147653	1.01	NO	12.38	1.02	12.35	12.42	62.624421	104.4		1493	2414
29	BDE-99		204175.438	104027	100148	1.04	NO	12.71	1.00	12.67	12.74	31.528079	105.1		1493	2414
30	BDE-116		93812.696	49337	44476	1.11	NO	12.87	1.01	12.83	12.90	30.391587	101.3		1493	2414
31	BDE-83		108625.473	55446	53180	1.04	NO	13.00	1.02	12.97	13.04	31.214890	104.0		1493	2414
32	BDE-118		124194.907	62271	61924	1.01	NO	13.12	1.03	13.08	13.15	31.325274	104.4		1493	2414
33	BDE-85		144840.492	73492	71348	1.03	NO	13.60	0.99	13.57	13.63	31.623968	105.4		1493	2414
34	BDE-126		236492.633	118890	117602	1.01	NO	13.77	1.00	13.74	13.81	32.060312	106.9		1493	2414

Quantify Sample Summary Report **MassLynx MassLynx V4.1 SCN 901**

Dataset: I:\Organics Instrument\HIGHRES GCMS Completed Results Files\HR-10\2021\2109\10-210914A-Q3.qld

Last Altered: Thursday, September 16, 2021 15:21:47 Eastern Daylight Time
Printed: Friday, September 17, 2021 11:00:37 Eastern Daylight Time

Name: 10-210914A21, Date: 15-Sep-2021, Time: 14:02:36, ID: H10-21-CCV-0126, Description: PBDEX-CS#3-003, Vial: Tray1:1

	Target Analyte	#Hom	Total Area	Ion1 Area	Ion2 Area	Ra	Ra Fail=YES	RT	RRT	RT LCL	RT UCL	Conc.	%Rec	Mod.Comment	Noise 1	Noise 2
35	BDE-105		134624.140	68387	66237	1.03	NO	13.94	1.01	13.90	13.97	33.625918	112.1		1493	2414
36	*PBB-153		359925.906	205672	154254	1.33	NO	14.10	1.00	14.06	14.13	40.149716	100.4		511	722
37	*BDE-155		447260.219	258172	189088	1.37	NO	13.76	0.97	13.73	13.80	40.215661	100.5		610	329
38	BDE-154		387908.234	225080	162828	1.38	NO	14.15	1.00	14.11	14.18	41.931583	104.8		610	329
39	*BDE-153		181139.296	106405	74734	1.42	NO	14.88	1.00	14.85	14.92	41.401651	103.5		1773	2012
40	BDE-140		220251.023	126969	93282	1.36	NO	15.34	1.01	15.31	15.37	43.906004	109.8		1773	2012
41	BDE-138/BDE-166		244817.742	141676	103142	1.37	NO	15.88	1.07	15.84	15.91	88.525153	110.7		1773	2012
42	BDE-156		80786.090	47175	33611	1.40	NO	16.22	1.09	16.18	16.25	45.189201	113.0		1773	2012
43	BDE-128		92778.558	54135	38643	1.40	NO	16.84	0.99	16.80	16.87	45.407299	113.5		1773	2012
44	*BDE-184		228216.289	114699	113517	1.01	NO	16.65	0.98	16.62	16.68	50.486874	101.0		1032	846
45	BDE-183		158407.336	79806	78602	1.02	NO	17.02	1.00	16.99	17.06	52.086219	104.2		1032	846
46	BDE-191		97298.176	48753	48545	1.00	NO	17.58	1.03	17.55	17.62	51.774800	103.5		1032	846
47	BDE-181		96353.844	48719	47634	1.02	NO	18.12	1.01	18.09	18.16	50.599522	101.2		1032	846
48	BDE-190		67030.949	33449	33582	1.00	NO	18.29	1.02	18.25	18.32	52.104047	104.2		1032	846
49	*PBB-180		111191.867	56173	55019	1.02	NO	17.13	0.96	17.09	17.16	39.492237	98.7		867	610
50	*BDE-197		128382.019	57955	70427	0.82	NO	19.50	1.00	19.47	19.54	51.992509	104.0		1094	1240
51	BDE-203		88850.430	39727	49124	0.81	NO	19.78	1.01	19.75	19.81	49.453777	98.9		1094	1240
52	BDE-196		103395.137	46615	56780	0.82	NO	19.91	1.02	19.87	19.94	50.172103	100.3		1094	1240
53	*PBB-194		65253.733	36879	28374	1.30	NO	19.98	1.03	19.95	20.02	40.679287	101.7		308	409
54	*BDE-208		262065.914	131055	131011	1.00	NO	21.24	0.99	21.20	21.27	94.798304	94.8		1721	1606
55	BDE-207		346817.204	171838	174979	0.98	NO	21.35	1.00	21.32	21.39	108.29114	108.3		1721	1606
56	BDE-206		296957.516	144916	152041	0.95	NO	21.63	1.01	21.59	21.66	122.70036	122.7		1721	1606
57	*PBB-206		102759.800	51405	51355	1.00	NO	21.07	0.99	21.04	21.11	93.580510	93.6		1235	1620
58	*PBB-209		136808.863	74456	62352	1.19	NO	21.97	1.03	21.93	22.00	108.98905	109.0		1096	1181
59	*BDE-209		120329.969	67939	52391	1.30	NO	23.28	1.00	23.24	23.31	100.90245	100.9		753	624
60	*DBDPE		227809.696	115683	112127	1.03	NO	24.67	1.00	24.64	24.70	205.59279	102.8		545	557
61	13C12-BDE-3		3925486.1...	1935444	1990042	0.97	NO	5.11	0.48	5.08	5.15	48.924345	97.8		1217	2364
62	13C12-BDE-15		2021570.8...	666695	1354876	0.49	NO	7.14	0.67	7.11	7.17	46.186706	92.4		1794	5984
63	13C12-BDE-28		892200.094	449241	442959	1.01	NO	8.68	0.81	8.65	8.72	44.767251	89.5		1457	1428
64	13C6-HBB		569732.594	411012	158721	2.59	NO	10.01	0.93	9.98	10.04	39.714614	79.4		1374	694
65	13C12-BDE-47		639594.172	389673	249921	1.56	NO	10.57	0.98	10.53	10.60	46.268789	92.5		1180	2051
66	13C12-BDE-77		718187.031	439093	279094	1.57	NO	11.33	1.06	11.29	11.36	49.310606	98.6		1180	2051
67	13C12-BDE-100		638871.438	320840	318032	1.01	NO	12.20	0.81	12.16	12.23	45.202413	90.4		1870	1302
68	13C12-BDE-99		393014.672	199418	193596	1.03	NO	12.71	0.84	12.67	12.74	47.423883	94.8		1870	1302
69	13C12-BDE-126		470929.500	239185	231744	1.03	NO	13.77	0.91	13.74	13.81	50.501846	101.0		1870	1302
70	13C12-BDE-154		505592.172	290160	215432	1.35	NO	14.15	0.93	14.11	14.18	44.275582	88.6		1081	332
71	13C12-BDE-153		188695.336	110612	78083	1.42	NO	14.88	0.98	14.85	14.92	48.860213	97.7		1430	1296

Quantify Sample Summary Report **MassLynx MassLynx V4.1 SCN 901**

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Name: 10-210914A21, Date: 15-Sep-2021, Time: 14:02:36, ID: H10-21-CCV-0126, Description: PBDEX-CS#3-003, Vial: Tray1:1

	Target Analyte	#Hom	Total Area	Ion1 Area	Ion2 Area	Ra	Ra Fail=YES	RT	RRT	RT LCL	RT UCL	Conc.	%Rec	Mod.Comment	Noise 1	Noise 2
72	13C12-BDE-183		203605.188	102293	101312	1.01	NO	17.01	0.95	16.98	17.04	42.755025	85.5		874	514
73	13C12-BDE-197		313898.515	140884	173014	0.81	NO	19.49	1.09	19.46	19.52	85.424351	85.4		987	677
74	13C12-BDE-207		880517.188	442934	437583	1.01	NO	21.35	0.99	21.32	21.39	221.88962	88.8		2001	2299
75	13C12-BDE-209		308769.516	174989	133781	1.31	NO	23.27	1.08	23.23	23.30	301.80101	120.7		1298	2196
76	13C14-DBDPE		622027.375	313248	308780	1.01	NO	24.66	1.14	24.63	24.69	814.91212	163.0		1106	1531
77	13C12-BDE-138 (CL)		165383.125	97521	67862	1.44	NO	15.83	1.05	15.80	15.86	50.857378	101.7		1430	1296
78	13C12-BDE-79 (IS)		793685.344	485010	308675	1.57	NO	10.73	0.71	10.70	10.76	90.978334	182.0		1180	2051
79	13C12-BDE-139 (IS)		227112.860	133847	93266	1.44	NO	15.14	0.00	15.11	15.17	90.120733	180.2		1430	1296
80	13C12-BDE-180 (IS)		112656.832	56662	55995	1.01	NO	17.89	1.18	17.85	17.92	95.857035	191.7		874	514
81	13C12-BDE-206 (IS)		747013.375	373956	373058	1.00	NO	21.61	1.43	21.58	21.65	517.40006	207.0		2001	2299
82	Total MoF1	3		1465873								58.587816			25891	
83	Total DiF2	5		1260659								149.69455			1208	
84	Total TriF3	6		1170090								177.90832			1373	
85	Total PBEBF3	1		168161								23.112889			310	
86	Total TePBBF3	1		205577								23.540164			497	
87	Total HBBF4	1		71191								20.696529			749	
88	Total TetraF4	8		682870								170.66192			3933	
89	Total PePBBF4	1		279776								37.485566			1001	
90	Total PentaF5	9		839446								316.71686			1493	
91	Total PBB-153	1		205672								40.149716			511	
92	Total HexaF5	2		483253								82.147245			610	
93	Total HexaF6	5		476360								264.42931			1773	
94	Total HeptaF6	5		325426								257.05146			1032	
95	Total PBB-180	1		56173								39.492237			867	
96	Total OctaF7	3		144297								151.61839			1094	
97	Total PBB-194	1		36879								40.679287			308	
98	Total NonaF8	3		447810								325.78980			1721	
99	Total PBB-206	1		51405								93.580510			1235	
100	Total PBB-209	1		74456								108.98905			1096	
101	Total DecaF9	1		67939								100.90245			753	
102	Total DBDPEF10															
103	Total 13CMoF1	1		1935444								48.924345			1217	
104	Total 13CDiF2	1		666695								46.186706			1794	
105	Total 13CTriF3	1		449241								44.767251			1457	
106	Total 13CHBBF4	1		411012								39.714614			1374	
107	Total 13CTetraF4	3		1313777								186.55773			1180	
108	Total 13CPentaF5	3		759443								143.12814			1870	

Quantify Sample Summary Report **MassLynx MassLynx V4.1 SCN 901**

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Name: 10-210914A21, Date: 15-Sep-2021, Time: 14:02:36, ID: H10-21-CCV-0126, Description: PBDEX-CS#3-003, Vial: Tray1:1

	Target Analyte	#Hom	Total Area	Ion1 Area	Ion2 Area	Ra	Ra Fail=YES	RT	RRT	RT LCL	RT UCL	Conc.	%Rec	Mod.Comment	Noise 1	Noise 2
109	Total 13CHexaF5	1		290160								44.275582			1081	
110	Total 13CHexaF6	3		341980								189.83832			1430	
111	Total 13CHeptaF6	2		158955								138.61206			874	
112	Total 13COctaF7	1		140884								85.424351			987	
113	Total 13CNonaF8	2		816890								739.28968			2001	
114	Total 13CDecaF9	1		174989								301.80101			1298	
115	Total 13CDBDPEF10															
116	Lockmass F1			0											205649	
117	Lockmass F2			0											634901	
118	Lockmass F3			0											278384	
119	Lockmass F4			0											83738	
120	Lockmass F5			0											62661	
121	Lockmass F6			0											22614	
122	Lockmass F7			0											14538	
123	Lockmass F8			0											16822	
124	Lockmass F9			0											17116	
125	Lockmass F10															

Quantify Sample Summary Report **MassLynx MassLynx V4.1 SCN 901**

Dataset: I:\Organics Instrument\HIGHRES GCMS Completed Results Files\HR-10\2021\2109\10-210914A-Q3.qld

Last Altered: Thursday, September 16, 2021 15:21:47 Eastern Daylight Time
Printed: Friday, September 17, 2021 11:00:37 Eastern Daylight Time

Name: 10-210914A24, Date: 15-Sep-2021, Time: 17:35:11, ID: L2625428-2 X 60, Description: DIL X60, Vial: Tray1:37

	Target Analyte	#Hom	Total Area	Ion1 Area	Ion2 Area	Ra	Ra Fail=YES	RT	RRT	RT LCL	RT UCL	Conc.	%Rec	Mod.Comment	Noise 1	Noise 2
1	*BDE-1														25987	27918
2	BDE-2														25987	27918
3	BDE-3														25987	27918
4	*BDE-10														517	681
5	BDE-7														517	681
6	BDE-8/BDE-11														517	681
7	BDE-12/BDE-13														517	681
8	BDE-15		1008.378	324	684	0.47	NO	7.16	1.00	7.12	7.19	429.87215			517	681
9	*BDE-30														624	541
10	BDE-32														624	541
11	BDE-17/BDE-25		2764.903	1261	1504	0.84	YES	8.45	0.97	8.42	8.48	3562.2993		EG210916MB	624	541
12	BDE-28/BDE-33		8630.318	4484	4147	1.08	NO	8.68	1.00	8.65	8.72	10680.315			624	541
13	BDE-35														624	541
14	BDE-37														624	541
15	*PBEB		481.142	233	248	0.94	NO	9.04	0.90	9.00	9.07	551.95664			314	257
16	*PBB-52														514	302
17	*HBB		586.356	183	403	0.45	NO	10.02	1.00	9.99	10.05	802.82630		EG210916MA	235	305
18	*BDE-75		589.469	218	372	0.59	YES	10.08	0.95	10.05	10.12	810.89967			1051	924
19	BDE-51		1458.419	590	869	0.68	NO	10.15	0.96	10.11	10.18	1691.2202		EG210916MB	1051	924
20	BDE-49		6606.111	2631	3975	0.66	NO	10.25	0.97	10.21	10.28	12025.150		EG210916MB	1051	924
21	BDE-71		670.382	304	366	0.83	YES	10.31	0.98	10.27	10.34	1187.6013		EG210916MB	1051	924
22	BDE-47		487920.532	196088	291832	0.67	NO	10.57	1.00	10.53	10.60	689614.95			1051	924
23	BDE-79		2775.109	1133	1642	0.69	NO	10.72	1.01	10.68	10.75	3229.6327		EG210916MS	1051	924
24	BDE-66		5929.157	2229	3701	0.60	NO	10.87	1.03	10.83	10.90	11750.921		EG210916MB	1051	924
25	BDE-77														1051	924
26	*PBB-101		116.881	56	61	0.92	NO	11.49	1.01	11.45	11.52	114.46788		EG210916MA	312	358
27	*BDE-100		74724.285	37563	37162	1.01	NO	12.21	1.00	12.18	12.24	131362.06		EG210916MB	946	526
28	BDE-119/BDE-120		752.785	388	365	1.06	NO	12.32	1.01	12.29	12.35	2727.3565		EG210916MB	946	526
29	BDE-99		272049.297	138491	133558	1.04	NO	12.72	1.00	12.68	12.75	770468.81		EG210916MB	946	526
30	BDE-116														946	526
31	BDE-83														946	526
32	BDE-118														946	526
33	BDE-85		6674.958	3385	3290	1.03	NO	13.61	0.99	13.58	13.65	25031.011		EG210916MB	946	526
34	BDE-126														946	526
35	BDE-105														946	526
36	*PBB-153		771.966	419	353	1.18	NO	14.11	1.00	14.08	14.14	1420.3039		EG210916MB	383	586
37	*BDE-155		1253.207	749	504	1.49	NO	13.77	0.97	13.74	13.81	1858.5382			391	292

Quantify Sample Summary Report **MassLynx MassLynx V4.1 SCN 901**

Dataset: I:\Organics Instrument\HIGHRES GCMS Completed Results Files\HR-10\2021\2109\10-210914A-Q3.qld

Last Altered: Thursday, September 16, 2021 15:21:47 Eastern Daylight Time
Printed: Friday, September 17, 2021 11:00:37 Eastern Daylight Time

Name: 10-210914A24, Date: 15-Sep-2021, Time: 17:35:11, ID: L2625428-2 X 60, Description: DIL X60, Vial: Tray1:37

	Target Analyte	#Hom	Total Area	Ion1 Area	Ion2 Area	Ra	Ra Fail=YES	RT	RRT	RT LCL	RT UCL	Conc.	%Rec	Mod.Comment	Noise 1	Noise 2
38	BDE-154		19010.469	11091	7920	1.40	NO	14.15	1.00	14.11	14.18	35399.517			391	292
39	*BDE-153		10782.326	6233	4550	1.37	NO	14.90	1.00	14.86	14.93	36488.411		EG210916MB	867	322
40	BDE-140		521.022	311	210	1.48	NO	15.35	1.01	15.32	15.38	1713.0727		EG210916MA	867	322
41	BDE-138/BDE-166		1070.034	645	425	1.52	NO	15.84	1.06	15.81	15.88	6381.6814			867	322
42	BDE-156														867	322
43	BDE-128														867	322
44	*BDE-184														214	299
45	BDE-183		1413.273	762	651	1.17	NO	17.03	1.00	17.00	17.07	9257.9706		EG210916MB	214	299
46	BDE-191														214	299
47	BDE-181														214	299
48	BDE-190														214	299
49	*PBB-180														582	226
50	*BDE-197		362.679	176	187	0.94	NO	19.53	1.00	19.49	19.56	3742.6706		EG210916MA	331	347
51	BDE-203		221.255	112	109	1.03	YES	19.81	1.01	19.77	19.84	3138.0196		EG210916MA	331	347
52	BDE-196		263.998	111	153	0.73	NO	19.92	1.02	19.89	19.95	3264.2653		EG210916MA	331	347
53	*PBB-194														109	257
54	*BDE-208		686.348	340	346	0.98	NO	21.24	0.99	21.20	21.27	12133.198			419	695
55	BDE-207		1219.133	552	667	0.83	YES	21.35	1.00	21.32	21.39	18603.055		EG210916MB	419	695
56	BDE-206		2450.400	1237	1214	1.02	NO	21.63	1.01	21.59	21.66	49479.965			419	695
57	*PBB-206														308	522
58	*PBB-209														272	179
59	*BDE-209		78151.149	44484	33667	1.32	NO	23.28	1.00	23.25	23.32	1871702.7			354	386
60	*DBDPE		53888.836	26994	26895	1.00	NO	24.68	1.00	24.65	24.71	1106825.9			204	344
61	13C12-BDE-3		5767.750	2756	3012	0.92	NO	5.11	0.48	5.08	5.15	581.52654	29.1		826	1172
62	13C12-BDE-15		5534.065	1696	3838	0.44	NO	7.15	0.67	7.11	7.18	1022.8309	51.1		1634	3625
63	13C12-BDE-28		2417.108	1184	1233	0.96	NO	8.68	0.81	8.65	8.72	981.12821	49.1		797	556
64	13C6-HBB		1394.728	1003	392	2.56	NO	10.01	0.93	9.98	10.04	786.50292	39.3		286	506
65	13C12-BDE-47		1686.061	1028	658	1.56	NO	10.57	0.98	10.53	10.60	986.70757	49.3	EG210916MB	322	357
66	13C12-BDE-77		2093.730	1209	885	1.37	NO	11.33	1.06	11.29	11.36	1162.9338	58.1	EG210916MB	322	357
67	13C12-BDE-100		1491.429	708	783	0.90	NO	12.21	0.81	12.18	12.24	952.39309	47.6	EG210916MB	411	236
68	13C12-BDE-99		857.147	450	407	1.11	NO	12.71	0.84	12.67	12.74	933.48890	46.7		411	236
69	13C12-BDE-126		1151.377	538	613	0.88	NO	13.77	0.91	13.74	13.81	1114.3828	55.7	EG210916MB	411	236
70	13C12-BDE-154		1174.000	692	482	1.44	NO	14.13	0.93	14.10	14.17	927.89222	46.4		744	299
71	13C12-BDE-153		509.781	261	248	1.05	YES	14.90	0.98	14.86	14.93	1191.3609	59.6		580	436
72	13C12-BDE-183		408.796	222	187	1.18	NO	17.01	0.95	16.98	17.04	468.02621	23.4	EG210916MA	329	334
73	13C12-BDE-197		492.750	237	256	0.93	NO	19.51	1.09	19.48	19.55	731.11260	18.3		243	190
74	13C12-BDE-207		720.704	336	385	0.87	YES	21.35	0.99	21.32	21.39	5840.2447	58.4	EG210916MB	650	313

Quantify Sample Summary Report **MassLynx MassLynx V4.1 SCN 901**

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Name: 10-210914A24, Date: 15-Sep-2021, Time: 17:35:11, ID: L2625428-2 X 60, Description: DIL X60, Vial: Tray1:37

	Target Analyte	#Hom	Total Area	Ion1 Area	Ion2 Area	Ra	Ra Fail=YES	RT	RRT	RT LCL	RT UCL	Conc.	%Rec	Mod.Comment	Noise 1	Noise 2
75	13C12-BDE-209		432.435	204	229	0.89	YES	23.28	1.08	23.24	23.31	13591.959	135.9		360	381
76	13C14-DBDPE		1093.263	597	497	1.20	YES	24.68	1.14	24.65	24.71	46057.556	230.3	EG210916MA	417	690
77	13C12-BDE-138 (CL)		321.818	197	125	1.57	NO	15.84	1.05	15.81	15.88	893.17921	44.7		580	436
78	13C12-BDE-79 (IS)		3924.432	2249	1675	1.34	NO	10.73	0.71	10.70	10.76	0.44984866	0.0	EG210916MB	322	357
79	13C12-BDE-139 (IS)		1006.552	585	422	1.39	NO	15.15	0.00	15.12	15.19	0.39941025	0.0		580	436
80	13C12-BDE-180 (IS)		826.518	374	452	0.83	YES	17.90	1.18	17.87	17.93	0.70326463	0.0		329	334
81	13C12-BDE-206 (IS)		929.209	519	410	1.27	YES	21.61	1.43	21.58	21.65	0.64359329	0.0	EG210916MB	650	313
82	Total MoF1			0											25987	
83	Total DiF2	1		324								429.87215			517	
84	Total TriF3	2		5745								14242.615			624	
85	Total PBEBF3	1		233								551.95664			314	
86	Total TePBBF3			0											514	
87	Total HBBF4	1		183								802.82630			235	
88	Total TetraF4	7		203193								720310.38			1051	
89	Total PePBBF4	1		56								114.46788			312	
90	Total PentaF5	4		179827								929589.23			946	
91	Total PBB-153	1		419								1420.3039			383	
92	Total HexaF5	2		11840								37258.055			391	
93	Total HexaF6	3		7189								44583.165			867	
94	Total HeptaF6	1		762								9257.9706			214	
95	Total PBB-180			0											582	
96	Total OctaF7	3		400								10144.955			331	
97	Total PBB-194			0											109	
98	Total NonaF8	3		2129								80216.218			419	
99	Total PBB-206			0											308	
100	Total PBB-209			0											272	
101	Total DecaF9	1		44484								1871702.7			354	
102	Total DBDPEF10															
103	Total 13CMoF1	1		2756								581.52654			826	
104	Total 13CDiF2	1		1696								1022.8309			1634	
105	Total 13CTriF3	1		1184								981.12821			797	
106	Total 13CHBBF4	1		1003								786.50292			286	
107	Total 13CTetraF4	3		4487								2150.0912			322	
108	Total 13CPentaF5	3		1697								3000.2648			411	
109	Total 13CHexaF5	1		692								927.89222			744	
110	Total 13CHexaF6	3		1043								2084.9395			580	
111	Total 13CHeptaF6	2		596								468.72947			329	

Quantify Sample Summary Report **MassLynx MassLynx V4.1 SCN 901**

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Last Altered: Thursday, September 16, 2021 15:21:47 Eastern Daylight Time
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Name: 10-210914A24, Date: 15-Sep-2021, Time: 17:35:11, ID: L2625428-2 X 60, Description: DIL X60, Vial: Tray1:37

	Target Analyte	#Hom	Total Area	Ion1 Area	Ion2 Area	Ra	Ra Fail=YES	RT	RRT	RT LCL	RT UCL	Conc.	%Rec	Mod.Comment	Noise 1	Noise 2
112	Total 13COctaF7	1		237								731.11260			243	
113	Total 13CNonaF8	2		855								5840.8883			650	
114	Total 13CDecaF9	1		204								13591.959			360	
115	Total 13CDBDPEF10															
116	Lockmass F1			0											193231	
117	Lockmass F2			0											354772	
118	Lockmass F3			0											204874	
119	Lockmass F4			0											59284	
120	Lockmass F5			0											56783	
121	Lockmass F6			0											18610	
122	Lockmass F7			0											17009	
123	Lockmass F8			0											15190	
124	Lockmass F9			0											16070	
125	Lockmass F10															

Quantify Sample Summary Report **MassLynx MassLynx V4.1 SCN 901**

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Last Altered: Thursday, September 16, 2021 15:21:47 Eastern Daylight Time
Printed: Friday, September 17, 2021 11:00:37 Eastern Daylight Time

Name: 10-210914A25, Date: 15-Sep-2021, Time: 18:38:25, ID: H10-21-CCV-0127, Description: PBDEX-CS#3-003, Vial: Tray1:1

	Target Analyte	#Hom	Total Area	Ion1 Area	Ion2 Area	Ra	Ra Fail=YES	RT	RRT	RT LCL	RT UCL	Conc.	%Rec	Mod.Comment	Noise 1	Noise 2
1	*BDE-1		669423.625	336127	333297	1.01	NO	4.89	0.96	4.86	4.93	18.772935	93.9		23440	35953
2	BDE-2		1051497.8...	525323	526175	1.00	NO	5.00	0.98	4.96	5.03	20.069151	100.3		23440	35953
3	BDE-3		1237628.1...	618106	619523	1.00	NO	5.10	1.00	5.07	5.14	19.656119	98.3		23440	35953
4	*BDE-10		377785.774	125978	251808	0.50	NO	6.33	0.89	6.30	6.37	23.220518	116.1		811	566
5	BDE-7		363968.492	121322	242646	0.50	NO	6.71	0.94	6.67	6.74	22.223240	111.1		811	566
6	BDE-8/BDE-11		1008030.6...	336594	671437	0.50	NO	6.87	0.96	6.84	6.90	42.915876	107.3		811	566
7	BDE-12/BDE-13		1164257.1...	388531	775726	0.50	NO	6.99	0.98	6.96	7.02	42.890555	107.2		811	566
8	BDE-15		666973.922	222974	444000	0.50	NO	7.13	1.00	7.10	7.16	20.717255	103.6		811	566
9	*BDE-30		229777.820	116019	113759	1.02	NO	7.83	0.90	7.79	7.86	23.363788	116.8		733	1746
10	BDE-32		304347.469	152449	151898	1.00	NO	8.28	0.96	8.25	8.32	22.607924	113.0		733	1746
11	BDE-17/BDE-25		451114.954	225640	225475	1.00	NO	8.44	0.97	8.40	8.47	43.688032	109.2		733	1746
12	BDE-28/BDE-33		449113.359	225339	223775	1.01	NO	8.67	1.00	8.64	8.71	41.777073	104.4		733	1746
13	BDE-35		310826.329	158039	152787	1.03	NO	8.83	1.02	8.79	8.86	20.942365	104.7		733	1746
14	BDE-37		303090.312	152201	150889	1.01	NO	9.02	1.04	8.98	9.05	20.413139	102.1		733	1746
15	*PBEB		289130.610	147436	141695	1.04	NO	9.03	0.90	8.99	9.06	24.274210	121.4		453	357
16	*PBB-52		299838.789	184588	115251	1.60	NO	9.13	0.91	9.09	9.16	24.917852	124.6		552	551
17	*HBB		211705.996	61977	149729	0.41	NO	10.01	1.00	9.98	10.04	21.213519	106.1		1044	603
18	*BDE-75		175280.726	69526	105755	0.66	NO	10.06	0.95	10.03	10.09	21.544191	107.7		1619	1865
19	BDE-51		224755.039	90779	133977	0.68	NO	10.13	0.96	10.10	10.17	23.287194	116.4		1619	1865
20	BDE-49		127500.785	50509	76992	0.66	NO	10.23	0.97	10.20	10.27	20.737069	103.7		1619	1865
21	BDE-71		150235.219	60387	89848	0.67	NO	10.29	0.98	10.26	10.33	23.779897	118.9		1619	1865
22	BDE-47		183421.657	73364	110058	0.67	NO	10.57	1.00	10.53	10.60	20.925301	104.6		1619	1865
23	BDE-79		210577.071	84481	126096	0.67	NO	10.73	1.02	10.70	10.76	21.896467	109.5		1619	1865
24	BDE-66		124700.519	50938	73762	0.69	NO	10.85	1.03	10.82	10.89	22.081932	110.4		1619	1865
25	BDE-77		181600.211	72658	108942	0.67	NO	11.33	1.00	11.29	11.36	21.422055	107.1		1619	1865
26	*PBB-101		459490.797	231057	228434	1.01	NO	11.46	1.01	11.43	11.50	40.207439	100.5		986	591
27	*BDE-100		251400.711	126330	125071	1.01	NO	12.20	1.00	12.16	12.23	32.227373	107.4		1608	979
28	BDE-119/BDE-120		228408.078	115742	112666	1.03	NO	12.37	1.01	12.34	12.40	63.382903	105.6		1608	979
29	BDE-99		157132.711	79790	77343	1.03	NO	12.71	1.00	12.67	12.74	31.976178	106.6		1608	979
30	BDE-116		72992.376	36875	36117	1.02	NO	12.85	1.01	12.82	12.89	31.107310	103.7		1608	979
31	BDE-83		84972.808	42802	42171	1.01	NO	12.99	1.02	12.96	13.03	32.122054	107.1		1608	979
32	BDE-118		92769.781	46691	46079	1.01	NO	13.12	1.03	13.08	13.15	30.781574	102.6		1608	979
33	BDE-85		105395.692	53177	52219	1.02	NO	13.60	0.99	13.57	13.63	30.272092	100.9		1608	979
34	BDE-126		172280.672	87032	85249	1.02	NO	13.77	1.00	13.74	13.81	33.044966	110.1		1608	979
35	BDE-105		95584.035	50239	45345	1.11	NO	13.92	1.01	13.89	13.96	31.407239	104.7		1608	979
36	*PBB-153		282243.773	161962	120281	1.35	NO	14.10	1.00	14.06	14.13	41.878853	104.7		501	619
37	*BDE-155		349635.141	201979	147656	1.37	NO	13.76	0.97	13.73	13.80	41.816825	104.5		633	230

Quantify Sample Summary Report **MassLynx MassLynx V4.1 SCN 901**

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Printed: Friday, September 17, 2021 11:00:37 Eastern Daylight Time

Name: 10-210914A25, Date: 15-Sep-2021, Time: 18:38:25, ID: H10-21-CCV-0127, Description: PBDEX-CS#3-003, Vial: Tray1:1

	Target Analyte	#Hom	Total Area	Ion1 Area	Ion2 Area	Ra	Ra Fail=YES	RT	RRT	RT LCL	RT UCL	Conc.	%Rec	Mod.Comment	Noise 1	Noise 2
38	BDE-154		299998.437	174260	125739	1.39	NO	14.15	1.00	14.11	14.18	42.435812	106.1		633	230
39	*BDE-153		131291.645	76479	54812	1.40	NO	14.88	1.00	14.85	14.92	41.759863	104.4		1891	1859
40	BDE-140		165662.429	97123	68539	1.42	NO	15.34	1.01	15.31	15.37	43.926949	109.8		1891	1859
41	BDE-138/BDE-166		176415.914	102340	74076	1.38	NO	15.84	1.07	15.81	15.88	84.852100	106.1		1891	1859
42	BDE-156		57435.723	33236	24199	1.37	NO	16.22	1.09	16.18	16.25	42.734753	106.8		1891	1859
43	BDE-128		65013.607	37957	27056	1.40	NO	16.82	0.99	16.79	16.86	42.323673	105.8		1891	1859
44	*BDE-184		162703.304	82876	79827	1.04	NO	16.64	0.98	16.60	16.67	51.164260	102.3		465	565
45	BDE-183		109212.238	54623	54589	1.00	NO	17.01	1.00	16.98	17.04	51.045484	102.1		465	565
46	BDE-191		64227.910	32362	31866	1.02	NO	17.57	1.03	17.54	17.61	48.582068	97.2		465	565
47	BDE-181		68348.953	34408	33941	1.01	NO	18.12	1.01	18.09	18.16	51.020853	102.0		465	565
48	BDE-190		45518.948	22911	22608	1.01	NO	18.27	1.02	18.24	18.31	50.295228	100.6		465	565
49	*PBB-180		81522.832	41266	40257	1.03	NO	17.12	0.96	17.08	17.15	41.158207	102.9		839	377
50	*BDE-197		90298.297	40433	49865	0.81	NO	19.49	1.00	19.46	19.52	51.485288	103.0		998	773
51	BDE-203		63705.643	28267	35439	0.80	NO	19.77	1.01	19.73	19.80	49.921180	99.8		998	773
52	BDE-196		74530.543	33180	41350	0.80	NO	19.89	1.02	19.86	19.93	50.917080	101.8		998	773
53	*PBB-194		47327.610	26851	20477	1.31	NO	19.97	1.02	19.94	20.00	41.538380	103.8		375	325
54	*BDE-208		183756.016	92711	91045	1.02	NO	21.23	0.99	21.19	21.26	98.412900	98.4		1346	1516
55	BDE-207		226028.070	113188	112840	1.00	NO	21.34	1.00	21.31	21.38	104.49009	104.5		1346	1516
56	BDE-206		196671.836	99392	97280	1.02	NO	21.61	1.01	21.58	21.65	120.31343	120.3		1346	1516
57	*PBB-206		75852.047	38063	37789	1.01	NO	21.07	0.99	21.04	21.11	102.27039	102.3		1025	1546
58	*PBB-209		97129.062	54021	43108	1.25	NO	21.97	1.03	21.93	22.00	114.56138	114.6		831	849
59	*BDE-209		85640.090	48732	36908	1.32	NO	23.28	1.00	23.24	23.31	101.48707	101.5		452	511
60	*DBDPE		175618.312	88933	86685	1.03	NO	24.67	1.00	24.64	24.70	203.39657	101.7		311	406
61	13C12-BDE-3		3952720.5...	1949204	2003516	0.97	NO	5.10	0.48	5.07	5.14	64.972273	129.9		1201	1919
62	13C12-BDE-15		1898789.6...	631229	1267561	0.50	NO	7.13	0.67	7.10	7.16	57.214389	114.4		1560	3230
63	13C12-BDE-28		803917.188	405780	398137	1.02	NO	8.67	0.81	8.64	8.71	53.199783	106.4		1337	2271
64	13C6-HBB		476442.157	344113	132329	2.60	NO	10.00	0.93	9.96	10.03	43.801587	87.6		2099	864
65	13C12-BDE-47		522215.516	315749	206467	1.53	NO	10.56	0.98	10.52	10.59	49.823449	99.6		1759	1479
66	13C12-BDE-77		535375.907	324519	210857	1.54	NO	11.31	1.06	11.28	11.35	48.479931	97.0		1759	1479
67	13C12-BDE-100		511319.515	257115	254205	1.01	NO	12.20	0.81	12.16	12.23	48.525220	97.1		2076	1379
68	13C12-BDE-99		298224.157	150315	147909	1.02	NO	12.69	0.84	12.66	12.73	48.267873	96.5		2076	1379
69	13C12-BDE-126		332841.344	165264	167578	0.99	NO	13.76	0.91	13.73	13.80	47.875753	95.8		2076	1379
70	13C12-BDE-154		386366.157	222271	164095	1.35	NO	14.13	0.93	14.10	14.17	45.382666	90.8		711	597
71	13C12-BDE-153		135595.156	79493	56102	1.42	NO	14.87	0.98	14.84	14.91	47.093976	94.2		2028	937
72	13C12-BDE-183		143235.399	71612	71623	1.00	NO	17.00	0.95	16.97	17.03	44.380635	88.8		608	616
73	13C12-BDE-197		222957.586	99780	123177	0.81	NO	19.49	1.09	19.46	19.52	89.528128	89.5		596	1109
74	13C12-BDE-207		594726.657	297188	297539	1.00	NO	21.34	0.99	21.31	21.38	223.22787	89.3		1531	1603

Quantify Sample Summary Report **MassLynx MassLynx V4.1 SCN 901**

Dataset: I:\Organics Instrument\HIGHRES GCMS Completed Results Files\HR-10\2021\2109\10-210914A-Q3.qld

Last Altered: Thursday, September 16, 2021 15:21:47 Eastern Daylight Time
Printed: Friday, September 17, 2021 11:00:37 Eastern Daylight Time

Name: 10-210914A25, Date: 15-Sep-2021, Time: 18:38:25, ID: H10-21-CCV-0127, Description: PBDEX-CS#3-003, Vial: Tray1:1

	Target Analyte	#Hom	Total Area	Ion1 Area	Ion2 Area	Ra	Ra Fail=YES	RT	RRT	RT LCL	RT UCL	Conc.	%Rec	Mod.Comment	Noise 1	Noise 2
75	13C12-BDE-209		218488.571	122323	96165	1.27	NO	23.27	1.08	23.23	23.30	318.08768	127.2		1106	1134
76	13C14-DBDPE		484698.125	242635	242063	1.00	NO	24.66	1.14	24.63	24.69	945.81125	189.2		915	1071
77	13C12-BDE-138 (CL)		117551.508	69689	47862	1.46	NO	15.83	1.05	15.80	15.86	48.486181	97.0		2028	937
78	13C12-BDE-79 (IS)		601794.172	357111	244683	1.46	NO	10.72	0.71	10.68	10.75	68.982288	138.0		1759	1479
79	13C12-BDE-139 (IS)		169322.523	99304	70018	1.42	NO	15.14	0.00	15.11	15.17	67.188929	134.4		2028	937
80	13C12-BDE-180 (IS)		76350.645	37805	38546	0.98	NO	17.88	1.18	17.84	17.91	64.964959	129.9		608	616
81	13C12-BDE-206 (IS)		501529.547	251937	249593	1.01	NO	21.60	1.43	21.57	21.64	347.37185	138.9		1531	1603
82	Total MoF1	3		1479556								58.498205			23440	
83	Total DiF2	5		1195399								151.96744			811	
84	Total TriF3	6		1029688								172.79232			733	
85	Total PBEBF3	1		147436								24.274210			453	
86	Total TePBBF3	1		184588								24.917852			552	
87	Total HBBF4	1		61977								21.213519			1044	
88	Total TetraF4	8		552642								175.67411			1619	
89	Total PePBBF4	1		231057								40.207439			986	
90	Total PentaF5	9		638678								316.32169			1608	
91	Total PBB-153	1		161962								41.878853			501	
92	Total HexaF5	2		376239								84.252637			633	
93	Total HexaF6	5		347136								255.59734			1891	
94	Total HeptaF6	5		227180								252.10789			465	
95	Total PBB-180	1		41266								41.158207			839	
96	Total OctaF7	3		101880								152.32355			998	
97	Total PBB-194	1		26851								41.538380			375	
98	Total NonaF8	3		305291								323.21642			1346	
99	Total PBB-206	1		38063								102.27039			1025	
100	Total PBB-209	1		54021								114.56138			831	
101	Total DecaF9	1		48732								101.48707			452	
102	Total DBDPEF10															
103	Total 13CMoF1	1		1949204								64.972273			1201	
104	Total 13CDiF2	1		631229								57.214389			1560	
105	Total 13CTriF3	1		405780								53.199783			1337	
106	Total 13CHBBF4	1		344113								43.801587			2099	
107	Total 13CTetraF4	3		997379								167.28567			1759	
108	Total 13CPentaF5	3		572693								144.66885			2076	
109	Total 13CHexaF5	1		222271								45.382666			711	
110	Total 13CHexaF6	3		248487								162.76909			2028	
111	Total 13CHeptaF6	2		109417								109.34559			608	

Quantify Sample Summary Report **MassLynx MassLynx V4.1 SCN 901**

Dataset: I:\Organics Instrument\HIGHRES GCMS Completed Results Files\HR-10\2021\2109\10-210914A-Q3.qld

Last Altered: Thursday, September 16, 2021 15:21:47 Eastern Daylight Time
Printed: Friday, September 17, 2021 11:00:37 Eastern Daylight Time

Name: 10-210914A25, Date: 15-Sep-2021, Time: 18:38:25, ID: H10-21-CCV-0127, Description: PBDEX-CS#3-003, Vial: Tray1:1

	Target Analyte	#Hom	Total Area	Ion1 Area	Ion2 Area	Ra	Ra Fail=YES	RT	RRT	RT LCL	RT UCL	Conc.	%Rec	Mod.Comment	Noise 1	Noise 2
112	Total 13COctaF7	1		99780								89.528128			596	
113	Total 13CNonaF8	2		549125								570.59972			1531	
114	Total 13CDecaF9	1		122323								318.08768			1106	
115	Total 13CDBDPEF10															
116	Lockmass F1			0											174840	
117	Lockmass F2			0											492134	
118	Lockmass F3			0											194180	
119	Lockmass F4			0											68987	
120	Lockmass F5			0											56794	
121	Lockmass F6			0											23545	
122	Lockmass F7			0											11559	
123	Lockmass F8			0											11834	
124	Lockmass F9			0											20499	
125	Lockmass F10															

Quantify Audit Report MassLynx MassLynx V4.1 SCN 901

Dataset: I:\Organics Instrument\HIGHRES GCMS Completed Results Files\HR-10\2021\2109\10-210914A-Q3.qld

Last Altered: Thursday, September 16, 2021 15:21:47 Eastern Daylight Time
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Date	Time	Event	Details	Comments
16-Sep-21	11:59:08	Process Extract		
16-Sep-21	11:59:08	Process Integrate		
16-Sep-21	11:59:08	Process Quantify		
16-Sep-21	11:59:13	Dataset Created		
16-Sep-21	12:00:12	Peak added	Sample:10-210914A24, Compound:13CHeptaF6, RT:17.011	EG210916MA
16-Sep-21	12:00:53	Peak added	Sample:10-210914A24, Compound:13CHexaF6, RT:15.842	EG210916MA
16-Sep-21	12:00:53	Peak added	Sample:10-210914A24, Compound:13CHexaF6, RT:15.842	EG210916MA
16-Sep-21	12:01:17	Peak modified	Sample:10-210914A24, Compound:13CHexaF6, RT:15.842	
16-Sep-21	12:01:45	Pre modification peak	Sample:10-210914A24, Compound:13CTetraF4, RT:10.730	
16-Sep-21	12:01:45	Peak modified	Sample:10-210914A24, Compound:13CTetraF4, RT:10.730	EG210916MB
16-Sep-21	12:02:25	Pre modification peak	Sample:10-210914A24, Compound:13CTetraF4, RT:11.326	
16-Sep-21	12:02:25	Peak modified	Sample:10-210914A24, Compound:13CTetraF4, RT:11.326	EG210916MB
16-Sep-21	12:02:25	Pre modification peak	Sample:10-210914A24, Compound:13CTetraF4, RT:11.326	
16-Sep-21	12:02:25	Peak modified	Sample:10-210914A24, Compound:13CTetraF4, RT:11.326	EG210916MB
16-Sep-21	12:02:25	Pre modification peak	Sample:10-210914A24, Compound:13CTetraF4, RT:10.568	
16-Sep-21	12:02:25	Peak modified	Sample:10-210914A24, Compound:13CTetraF4, RT:10.568	EG210916MB
16-Sep-21	12:02:45	Peak modified	Sample:10-210914A24, Compound:13CTetraF4, RT:10.730	EG210916MB
16-Sep-21	12:03:18	Pre modification peak	Sample:10-210914A24, Compound:13CPentaF5, RT:13.774	
16-Sep-21	12:03:18	Peak modified	Sample:10-210914A24, Compound:13CPentaF5, RT:13.774	EG210916MB
16-Sep-21	12:03:18	Pre modification peak	Sample:10-210914A24, Compound:13CPentaF5, RT:12.209	
16-Sep-21	12:03:18	Peak modified	Sample:10-210914A24, Compound:13CPentaF5, RT:12.209	EG210916MB
16-Sep-21	12:04:11	Peak added	Sample:10-210914A24, Compound:13CDBDPEF10, RT:24.669	EG210916MA
16-Sep-21	12:04:45	Dataset Saved	Saved to 'I:\Organics Instrument\HIGHRES GCMS Complete...	
16-Sep-21	12:06:30	Pre modification peak	Sample:10-210914A24, Compound:13CNonaF8, RT:21.626	
16-Sep-21	12:06:30	Peak modified	Sample:10-210914A24, Compound:13CNonaF8, RT:21.626	EG210916MB
16-Sep-21	12:06:30	Pre modification peak	Sample:10-210914A24, Compound:13CNonaF8, RT:21.614	
16-Sep-21	12:06:30	Peak modified	Sample:10-210914A24, Compound:13CNonaF8, RT:21.614	EG210916MB
16-Sep-21	12:06:30	Pre modification peak	Sample:10-210914A24, Compound:13CNonaF8, RT:21.355	
16-Sep-21	12:06:30	Peak modified	Sample:10-210914A24, Compound:13CNonaF8, RT:21.355	EG210916MB
16-Sep-21	12:08:57	Pre modification peak	Sample:10-210914A24, Compound:TriF3, RT:8.450	
16-Sep-21	12:08:57	Peak modified	Sample:10-210914A24, Compound:TriF3, RT:8.450	EG210916MB
16-Sep-21	12:08:57	Pre modification peak	Sample:10-210914A24, Compound:TriF3, RT:7.983	
16-Sep-21	12:08:57	Peak modified	Sample:10-210914A24, Compound:TriF3, RT:7.983	EG210916MB
16-Sep-21	12:08:57	Pre modification peak	Sample:10-210914A24, Compound:TriF3, RT:8.450	
16-Sep-21	12:08:57	Peak modified	Sample:10-210914A24, Compound:TriF3, RT:8.450	EG210916MB
16-Sep-21	12:09:28	Peak added	Sample:10-210914A24, Compound:HBBF4, RT:10.021	EG210916MA
16-Sep-21	12:11:05	Pre modification peak	Sample:10-210914A24, Compound:TetraF4, RT:10.146	
16-Sep-21	12:11:05	Peak modified	Sample:10-210914A24, Compound:TetraF4, RT:10.146	EG210916MB
16-Sep-21	12:11:05	Pre modification peak	Sample:10-210914A24, Compound:TetraF4, RT:10.307	
16-Sep-21	12:11:05	Peak modified	Sample:10-210914A24, Compound:TetraF4, RT:10.307	EG210916MB
16-Sep-21	12:11:05	Pre modification peak	Sample:10-210914A24, Compound:TetraF4, RT:10.245	
16-Sep-21	12:11:05	Peak modified	Sample:10-210914A24, Compound:TetraF4, RT:10.245	EG210916MB
16-Sep-21	12:12:21	Pre modification peak	Sample:10-210914A24, Compound:TetraF4, RT:10.804	
16-Sep-21	12:12:21	Peak modified	Sample:10-210914A24, Compound:TetraF4, RT:10.804	EG210916MS
16-Sep-21	12:12:21	Pre modification peak	Sample:10-210914A24, Compound:TetraF4, RT:10.568	
16-Sep-21	12:12:21	Peak modified	Sample:10-210914A24, Compound:TetraF4, RT:10.568	EG210916MS
16-Sep-21	12:12:21	Peak added	Sample:10-210914A24, Compound:TetraF4, RT:10.680	EG210916MS
16-Sep-21	12:16:22	Pre modification peak	Sample:10-210914A24, Compound:TetraF4, RT:10.705	
16-Sep-21	12:16:22	Peak modified	Sample:10-210914A24, Compound:TetraF4, RT:10.705	EG210916MS
16-Sep-21	12:16:22	Pre modification peak	Sample:10-210914A24, Compound:TetraF4, RT:10.568	
16-Sep-21	12:16:22	Peak modified	Sample:10-210914A24, Compound:TetraF4, RT:10.568	EG210916MS
16-Sep-21	12:16:22	Peak added	Sample:10-210914A24, Compound:TetraF4, RT:10.655	EG210916MS
16-Sep-21	12:16:22	Pre modification peak	Sample:10-210914A24, Compound:TetraF4, RT:10.866	

Quantify Audit Report MassLynx MassLynx V4.1 SCN 901

Dataset: I:\Organics Instrument\HIGHRES GCMS Completed Results Files\HR-10\2021\2109\10-210914A-Q3.qld

Last Altered: Thursday, September 16, 2021 15:21:47 Eastern Daylight Time
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Date	Time	Event	Details	Comments
16-Sep-21	12:16:22	Peak modified	Sample:10-210914A24, Compound:TetraF4, RT:10.866	EG210916MS
16-Sep-21	12:16:22	Peak deleted	Sample:10-210914A24, Compound:TetraF4, RT:10.792	EG210916MS
16-Sep-21	12:16:22	Peak modified	Sample:10-210914A24, Compound:TetraF4, RT:10.568	EG210916MS
16-Sep-21	12:16:22	Peak modified	Sample:10-210914A24, Compound:TetraF4, RT:10.705	EG210916MS
16-Sep-21	12:16:22	Peak added	Sample:10-210914A24, Compound:TetraF4, RT:10.655	EG210916MS
16-Sep-21	12:16:56	Pre modification peak	Sample:10-210914A24, Compound:TetraF4, RT:10.866	
16-Sep-21	12:16:56	Peak modified	Sample:10-210914A24, Compound:TetraF4, RT:10.866	EG210916MB
16-Sep-21	12:16:56	Peak modified	Sample:10-210914A24, Compound:TetraF4, RT:10.866	EG210916MB
16-Sep-21	12:17:27	Dataset Saved	Saved to 'I:\Organics Instrument\HIGHRES GCMS Complete...	
16-Sep-21	14:00:55	Peak modified	Sample:10-210914A24, Compound:TetraF4, RT:10.730	
16-Sep-21	14:00:55	Peak modified	Sample:10-210914A24, Compound:TetraF4, RT:10.568	
16-Sep-21	14:00:55	Peak modified	Sample:10-210914A24, Compound:TetraF4, RT:10.668	
16-Sep-21	14:00:55	Peak modified	Sample:10-210914A24, Compound:TetraF4, RT:10.792	
16-Sep-21	14:00:55	Peak modified	Sample:10-210914A24, Compound:TetraF4, RT:10.568	
16-Sep-21	14:00:55	Peak modified	Sample:10-210914A24, Compound:TetraF4, RT:10.668	
16-Sep-21	14:00:55	Peak modified	Sample:10-210914A24, Compound:TetraF4, RT:10.730	
16-Sep-21	14:02:22	Peak modified	Sample:10-210914A24, Compound:TetraF4, RT:10.717	EG210916MS
16-Sep-21	14:02:22	Peak modified	Sample:10-210914A24, Compound:TetraF4, RT:10.668	EG210916MS
16-Sep-21	14:02:22	Peak modified	Sample:10-210914A24, Compound:TetraF4, RT:10.866	EG210916MS
16-Sep-21	14:02:22	Peak deleted	Sample:10-210914A24, Compound:TetraF4, RT:10.792	EG210916MS
16-Sep-21	14:02:22	Peak modified	Sample:10-210914A24, Compound:TetraF4, RT:10.668	EG210916MS
16-Sep-21	14:02:22	Peak modified	Sample:10-210914A24, Compound:TetraF4, RT:10.717	EG210916MS
16-Sep-21	14:04:54	Pre modification peak	Sample:10-210914A24, Compound:TetraF4, RT:10.307	
16-Sep-21	14:04:54	Peak modified	Sample:10-210914A24, Compound:TetraF4, RT:10.307	EG210916MS
16-Sep-21	14:05:32	Pre modification peak	Sample:10-210914A24, Compound:PentaF5, RT:13.613	
16-Sep-21	14:05:32	Peak modified	Sample:10-210914A24, Compound:PentaF5, RT:13.613	EG210916MB
16-Sep-21	14:05:32	Pre modification peak	Sample:10-210914A24, Compound:PentaF5, RT:12.718	
16-Sep-21	14:05:32	Peak modified	Sample:10-210914A24, Compound:PentaF5, RT:12.718	EG210916MB
16-Sep-21	14:06:23	Pre modification peak	Sample:10-210914A24, Compound:PentaF5, RT:12.718	
16-Sep-21	14:06:23	Peak modified	Sample:10-210914A24, Compound:PentaF5, RT:12.718	EG210916MB
16-Sep-21	14:06:23	Pre modification peak	Sample:10-210914A24, Compound:PentaF5, RT:12.321	
16-Sep-21	14:06:23	Peak modified	Sample:10-210914A24, Compound:PentaF5, RT:12.321	EG210916MB
16-Sep-21	14:06:23	Pre modification peak	Sample:10-210914A24, Compound:PentaF5, RT:12.209	
16-Sep-21	14:06:23	Peak modified	Sample:10-210914A24, Compound:PentaF5, RT:12.209	EG210916MB
16-Sep-21	14:06:54	Method modified		
16-Sep-21	14:06:59	Process Quantify		
16-Sep-21	14:07:14	Peak added	Sample:10-210914A24, Compound:PBB101F4, RT:11.476	EG210916MA
16-Sep-21	14:07:14	Peak added	Sample:10-210914A24, Compound:PBB101F4, RT:11.488	EG210916MA
16-Sep-21	14:07:33	Pre modification peak	Sample:10-210914A24, Compound:PBB153F5, RT:14.110	
16-Sep-21	14:07:33	Peak modified	Sample:10-210914A24, Compound:PBB153F5, RT:14.110	EG210916MB
16-Sep-21	14:08:07	Pre modification peak	Sample:10-210914A24, Compound:HexaF6, RT:14.895	
16-Sep-21	14:08:07	Peak modified	Sample:10-210914A24, Compound:HexaF6, RT:14.895	EG210916MB
16-Sep-21	14:08:07	Pre modification peak	Sample:10-210914A24, Compound:HexaF6, RT:14.895	
16-Sep-21	14:08:07	Peak modified	Sample:10-210914A24, Compound:HexaF6, RT:14.895	EG210916MB
16-Sep-21	14:08:25	Peak added	Sample:10-210914A24, Compound:HexaF6, RT:15.351	EG210916MA
16-Sep-21	14:09:18	Peak added	Sample:10-210914A24, Compound:OctaF7, RT:19.919	EG210916MA
16-Sep-21	14:09:18	Peak added	Sample:10-210914A24, Compound:OctaF7, RT:19.793	EG210916MA
16-Sep-21	14:09:18	Peak added	Sample:10-210914A24, Compound:OctaF7, RT:19.515	EG210916MA
16-Sep-21	14:09:18	Peak added	Sample:10-210914A24, Compound:OctaF7, RT:19.528	EG210916MA
16-Sep-21	14:09:18	Peak added	Sample:10-210914A24, Compound:OctaF7, RT:19.806	EG210916MA
16-Sep-21	14:09:18	Peak added	Sample:10-210914A24, Compound:OctaF7, RT:19.919	EG210916MA
16-Sep-21	14:09:41	Peak modified	Sample:10-210914A24, Compound:OctaF7, RT:19.919	EG210916MA
16-Sep-21	14:09:41	Peak modified	Sample:10-210914A24, Compound:OctaF7, RT:19.806	EG210916MA

Quantify Audit Report MassLynx MassLynx V4.1 SCN 901

Dataset: I:\Organics Instrument\HIGHRES GCMS Completed Results Files\HR-10\2021\2109\10-210914A-Q3.qld

Last Altered: Thursday, September 16, 2021 15:21:47 Eastern Daylight Time
Printed: Friday, September 17, 2021 11:00:37 Eastern Daylight Time

Date	Time	Event	Details	Comments
16-Sep-21	14:10:08	Pre modification peak	Sample:10-210914A24, Compound:NonaF8, RT:21.355	
16-Sep-21	14:10:08	Peak modified	Sample:10-210914A24, Compound:NonaF8, RT:21.355	EG210916MB
16-Sep-21	14:10:35	Dataset Saved	Saved to 'I:\Organics Instrument\HIGHRES GCMS Complete...	
16-Sep-21	15:21:40	Pre modification peak	Sample:10-210914A24, Compound:HeptaF6, RT:17.023	
16-Sep-21	15:21:40	Peak modified	Sample:10-210914A24, Compound:HeptaF6, RT:17.023	EG210916MB
16-Sep-21	17:13:09	Dataset Saved	Saved to 'I:\Organics Instrument\HIGHRES GCMS Complete...	

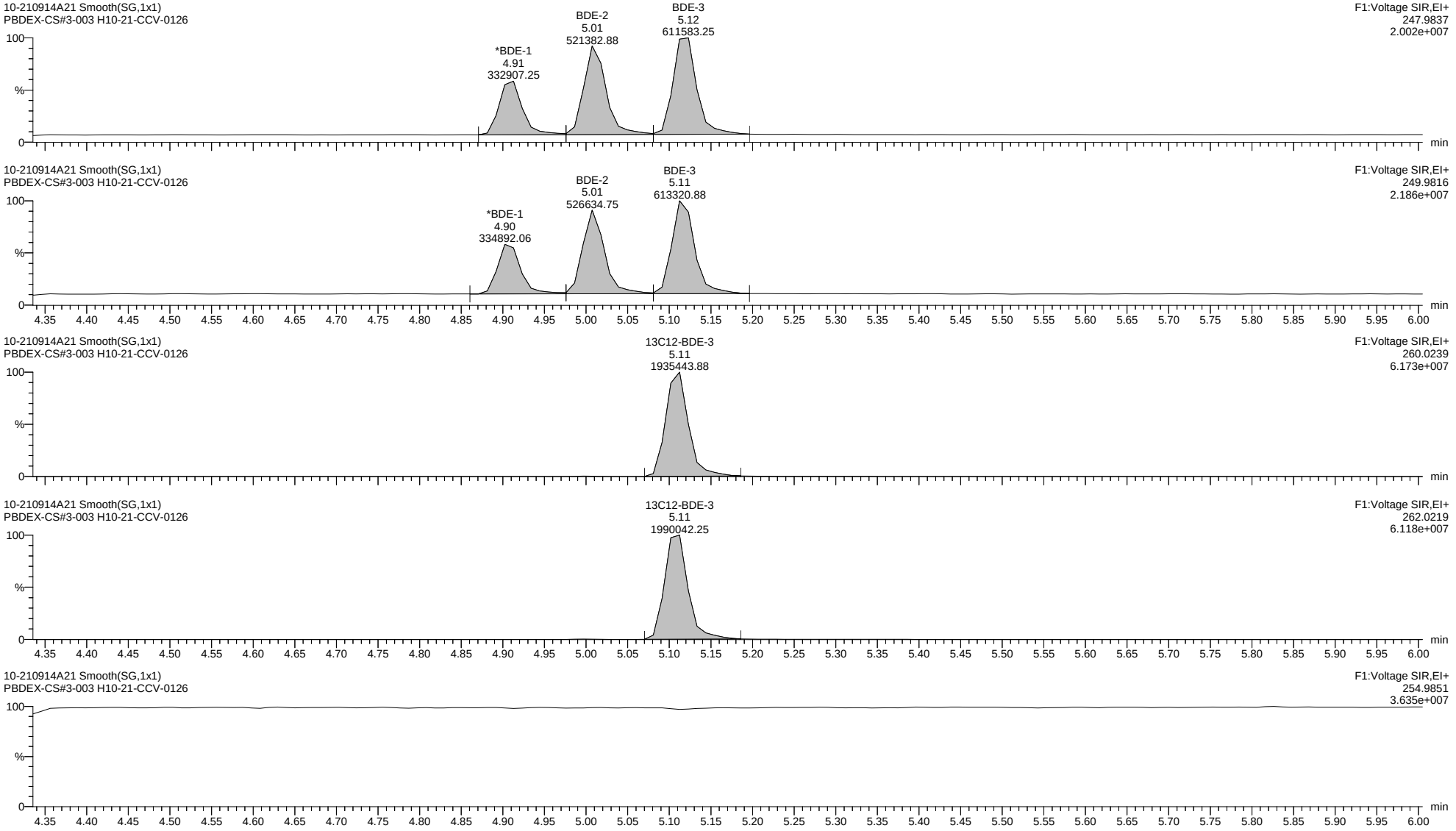
Quantify Sample Template Report **MassLynx MassLynx V4.1 SCN 901**

Dataset: I:\Organics Instrument\HIGHRES GCMS Completed Results Files\HR-10\2021\2109\10-210914A-Q3.qld

Last Altered: Thursday, September 16, 2021 15:21:47 Eastern Daylight Time
Printed: Friday, September 17, 2021 11:00:37 Eastern Daylight Time

Method: C:\MassLynx\PBDE.PRO\MethDB\PBDEX-DB5-1-210913B.mdb 14 Sep 2021 11:10:04
Calibration: C:\MassLynx\PBDE.PRO\CurveDB\10-210913B-ICAL-PBDE.cdb 14 Sep 2021 11:07:06

Name: 10-210914A21, Date: 15-Sep-2021, Time: 14:02:36, ID: H10-21-CCV-0126, Description: PBDEX-CS#3-003, Vial: Tray1:1



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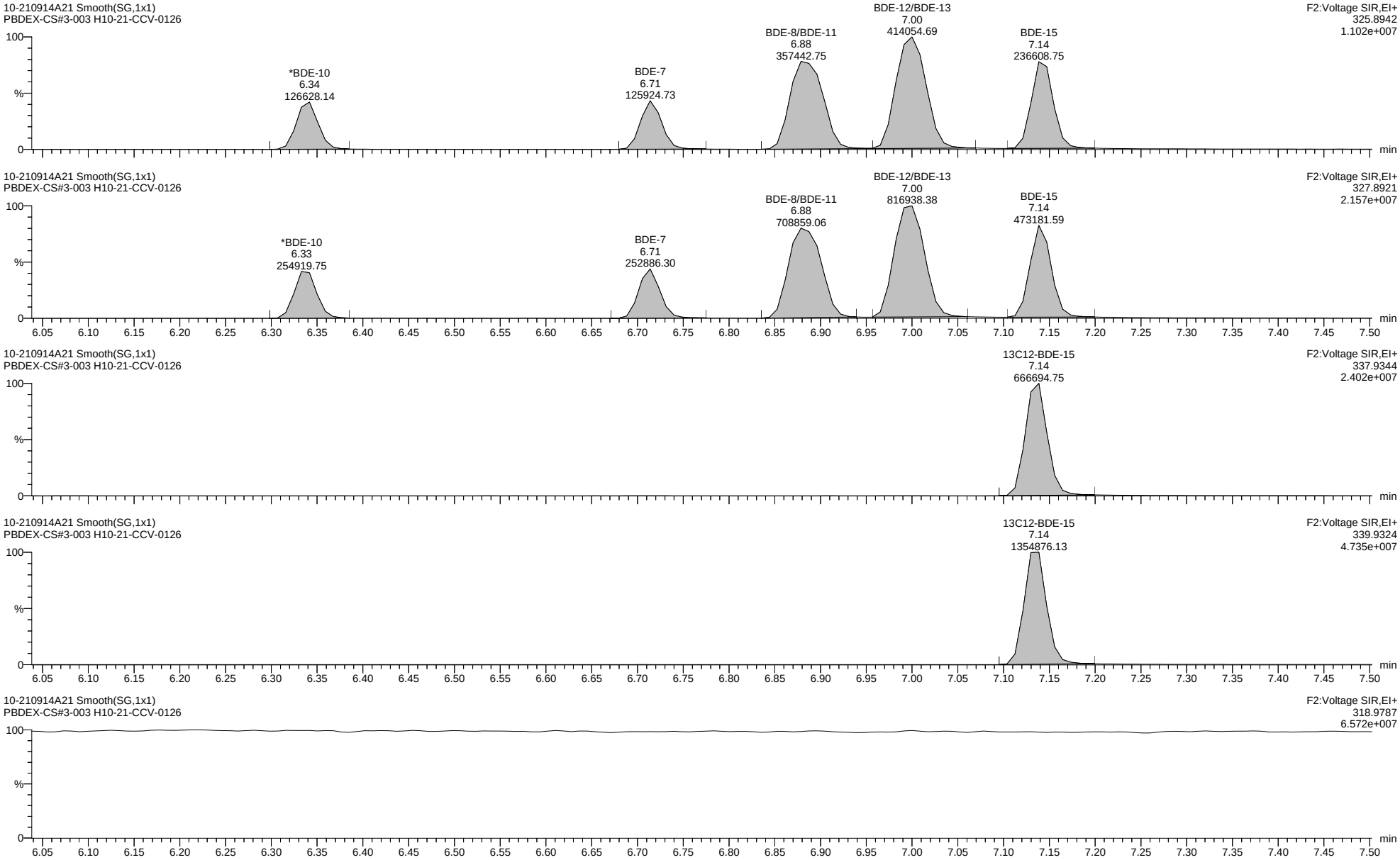

Dataset: I:\Organics Instrument\HIGHRES GCMS Completed Results Files\HR-10\2021\2109\10-210914A-Q3.qld

Last Altered: Thursday, September 16, 2021 15:21:47 Eastern Daylight Time
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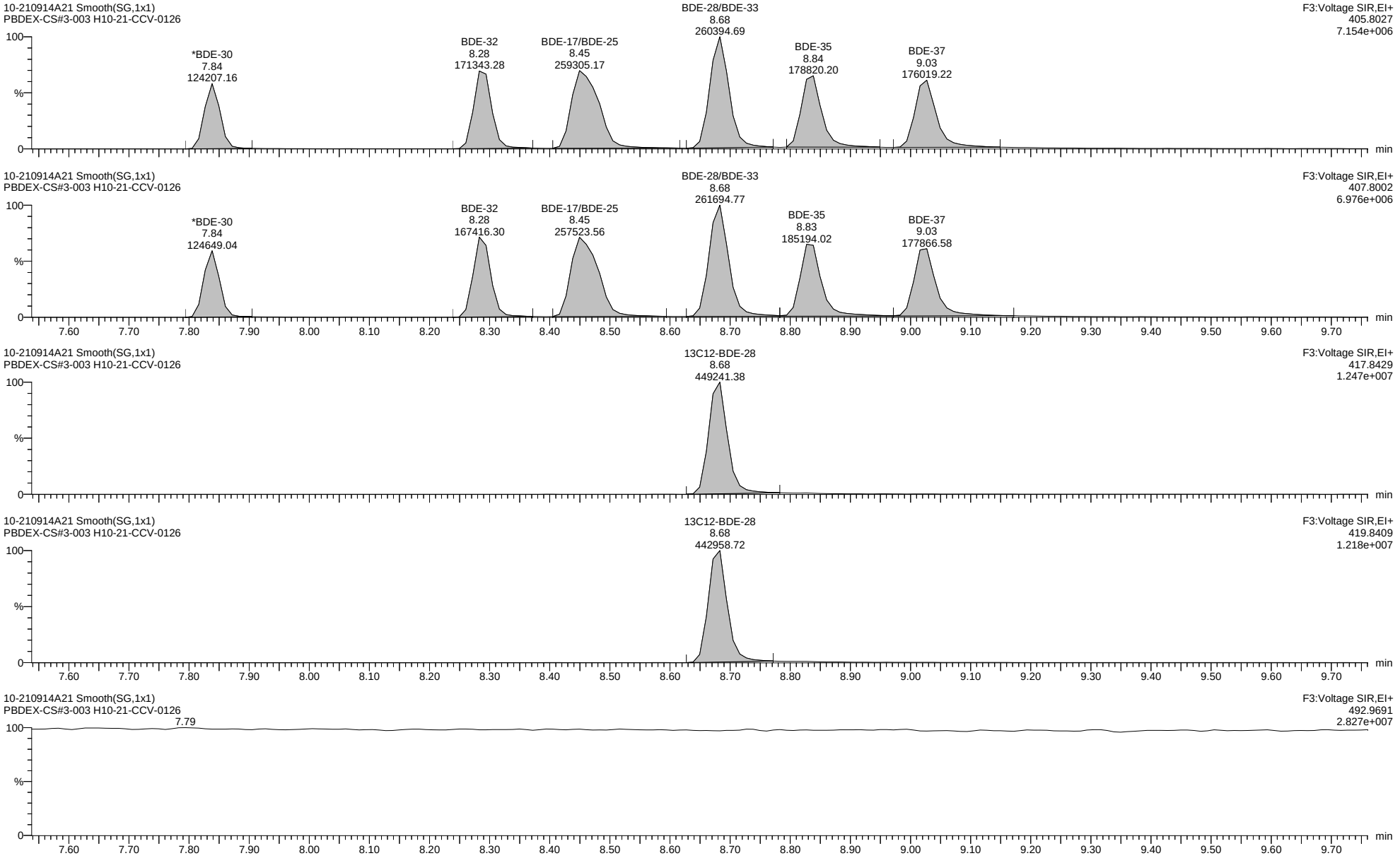
Name: 10-210914A21, Date: 15-Sep-2021, Time: 14:02:36, ID: H10-21-CCV-0126, Description: PBDEX-CS#3-003, Vial: Tray1:1



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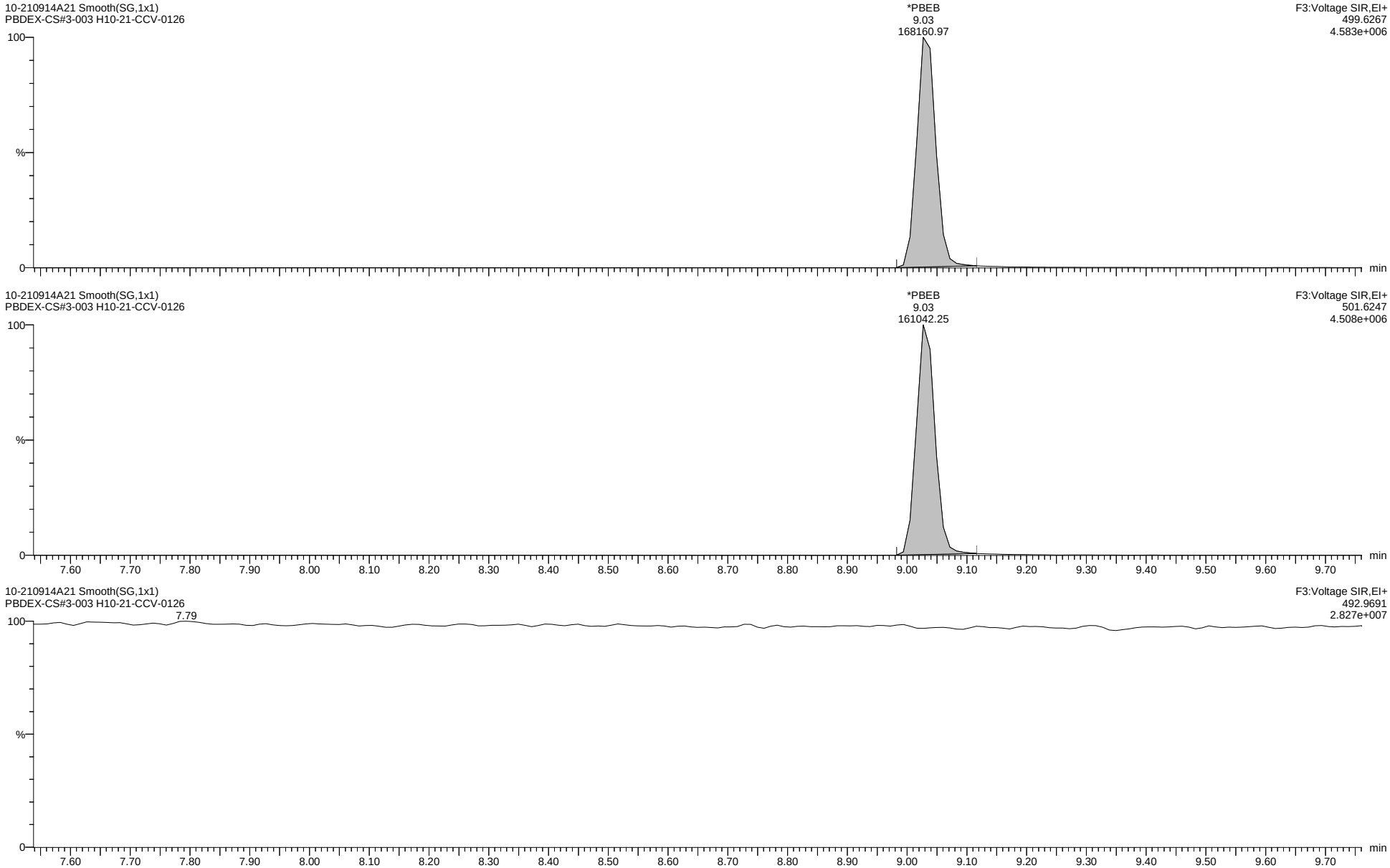
Name: 10-210914A21, Date: 15-Sep-2021, Time: 14:02:36, ID: H10-21-CCV-0126, Description: PBDEX-CS#3-003, Vial: Tray1:1



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Last Altered: Thursday, September 16, 2021 15:21:47 Eastern Daylight Time
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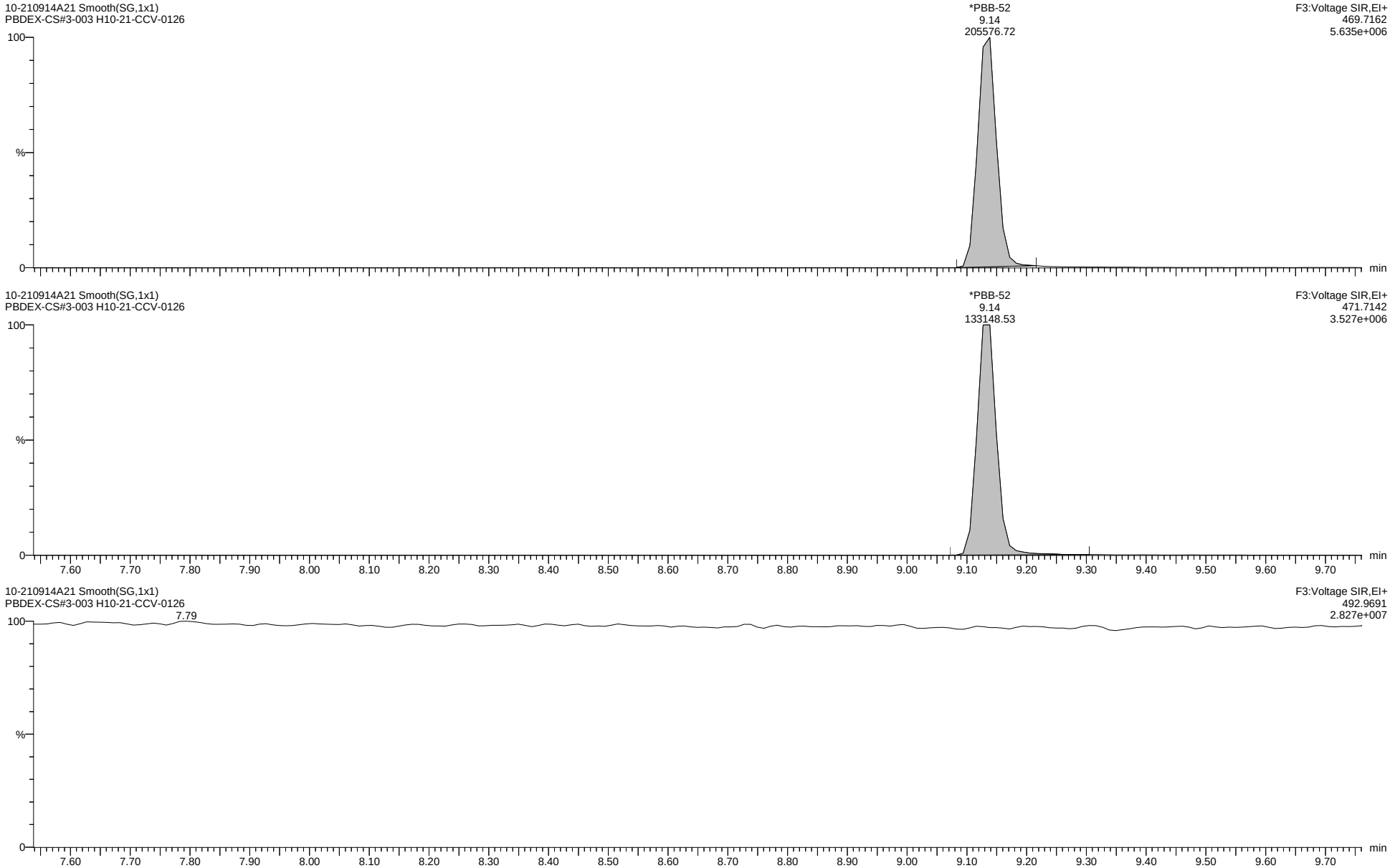
Name: 10-210914A21, Date: 15-Sep-2021, Time: 14:02:36, ID: H10-21-CCV-0126, Description: PBDEX-CS#3-003, Vial: Tray1:1



Dataset: I:\Organics Instrument\HIGHRES GCMS Completed Results Files\HR-10\2021\2109\10-210914A-Q3.qld

Last Altered: Thursday, September 16, 2021 15:21:47 Eastern Daylight Time
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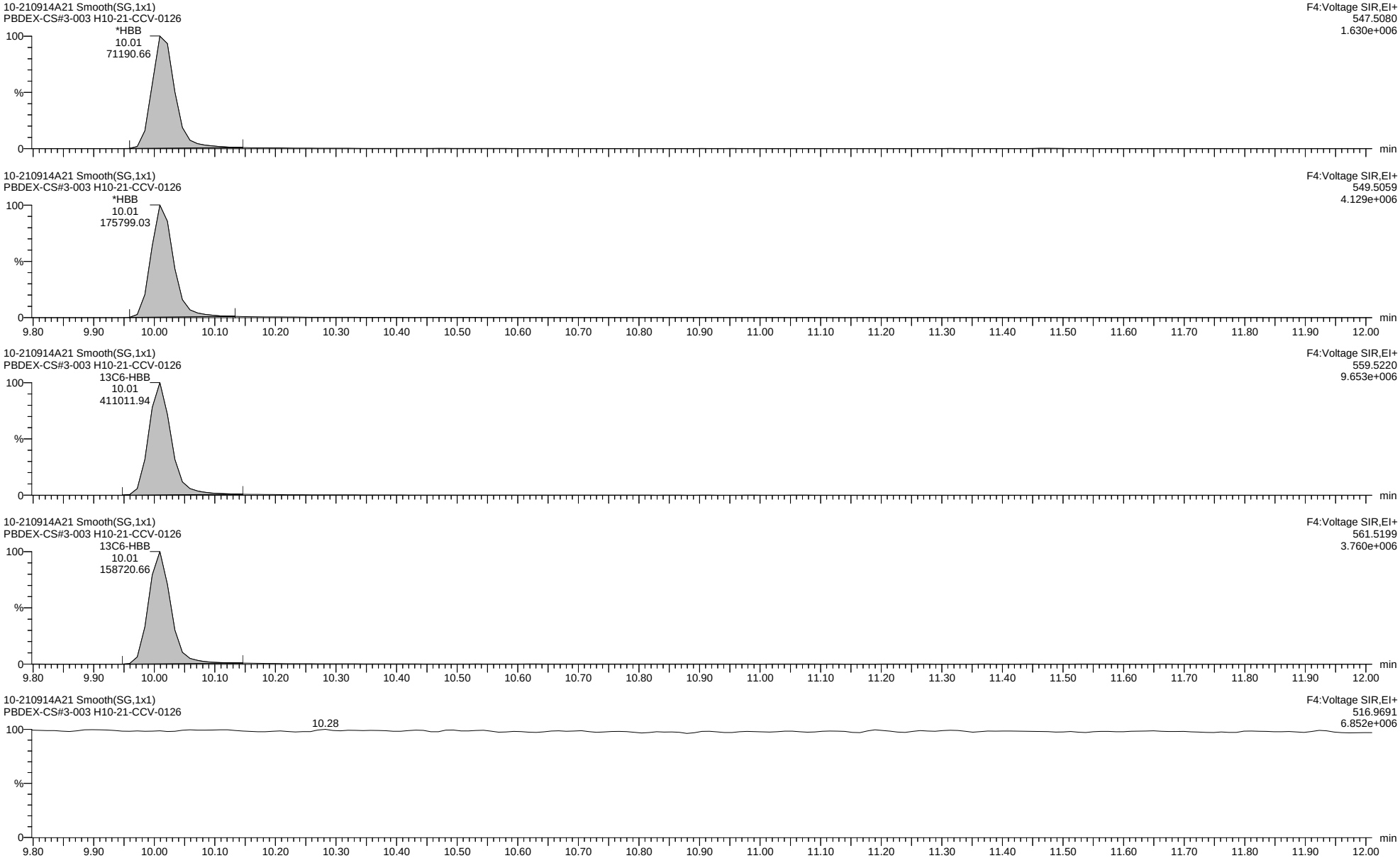
Name: 10-210914A21, Date: 15-Sep-2021, Time: 14:02:36, ID: H10-21-CCV-0126, Description: PBDEX-CS#3-003, Vial: Tray1:1

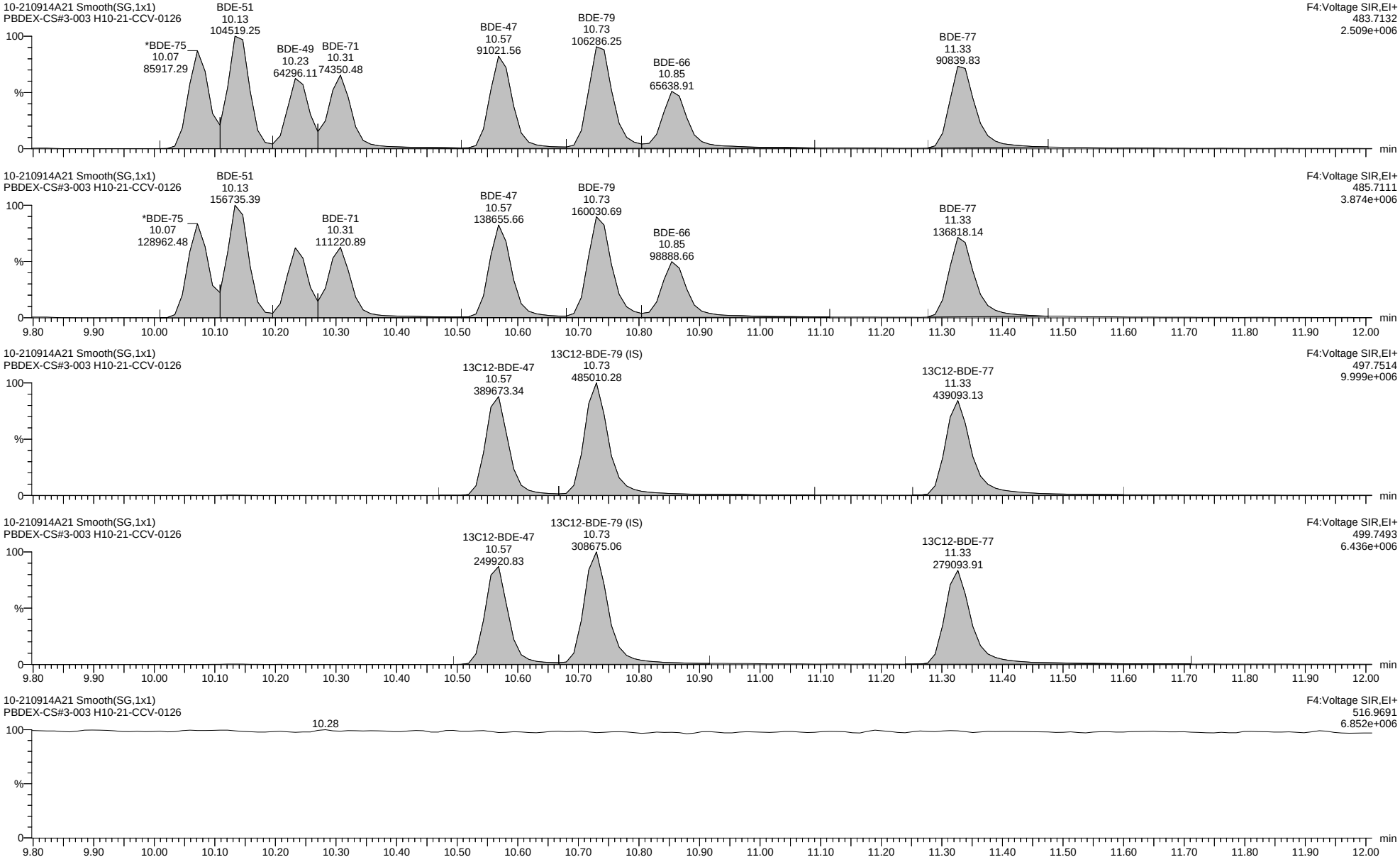


Quantify Sample Template Report **MassLynx MassLynx V4.1 SCN 901**

Dataset: I:\Organics Instrument\HIGHRES GCMS Completed Results Files\HR-10\2021\2109\10-210914A-Q3.qld

Last Altered: Thursday, September 16, 2021 15:21:47 Eastern Daylight Time
Printed: Friday, September 17, 2021 11:00:37 Eastern Daylight Time

Name: 10-210914A21, Date: 15-Sep-2021, Time: 14:02:36, ID: H10-21-CCV-0126, Description: PBDEX-CS#3-003, Vial: Tray1:1



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Last Altered: Thursday, September 16, 2021 15:21:47 Eastern Daylight Time
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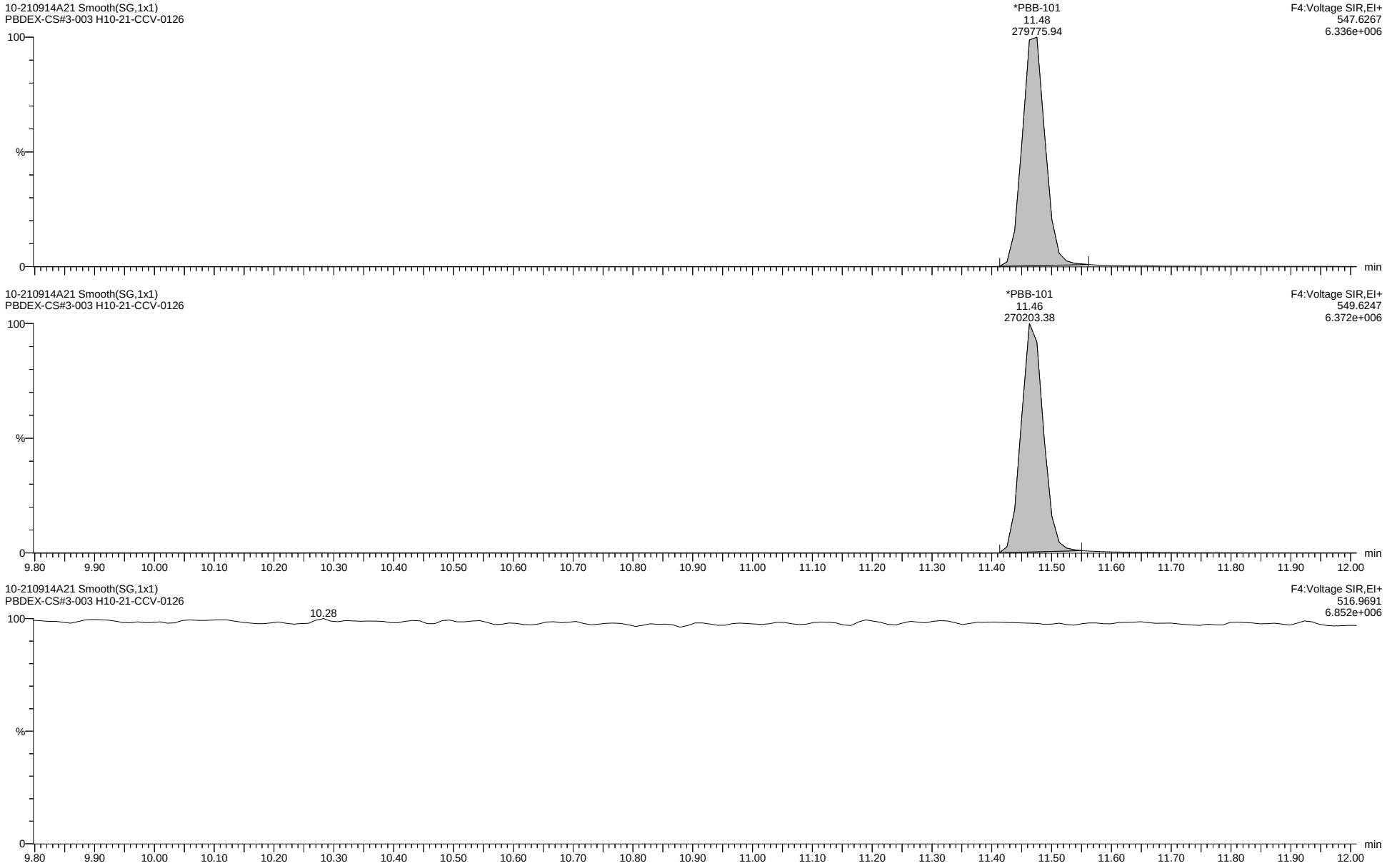
Name: 10-210914A21, Date: 15-Sep-2021, Time: 14:02:36, ID: H10-21-CCV-0126, Description: PBDEX-CS#3-003, Vial: Tray1:1



Quantify Sample Template Report **MassLynx MassLynx V4.1 SCN 901**

Dataset: I:\Organics Instrument\HIGHRES GCMS Completed Results Files\HR-10\2021\2109\10-210914A-Q3.qld

Last Altered: Thursday, September 16, 2021 15:21:47 Eastern Daylight Time
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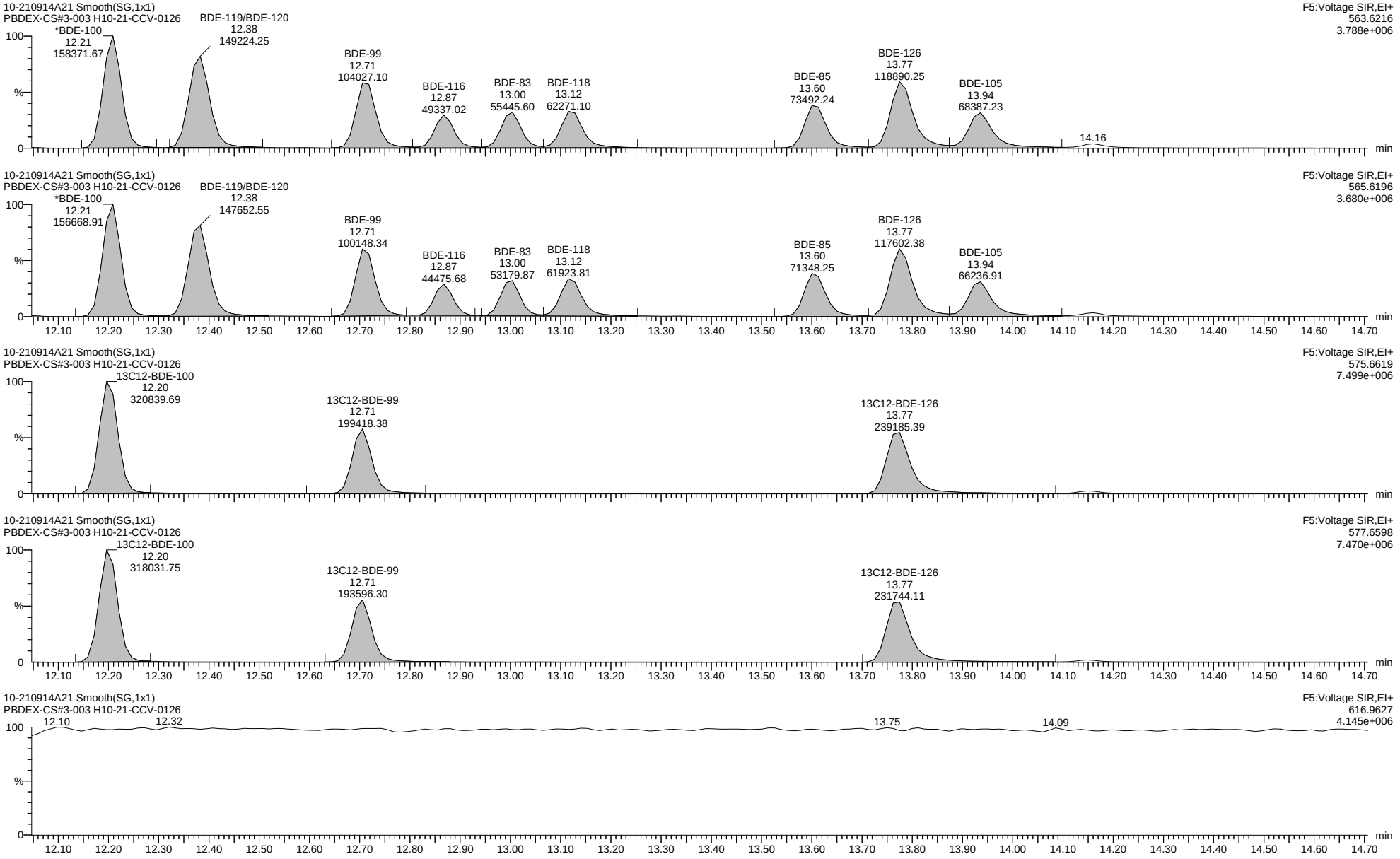
Name: 10-210914A21, Date: 15-Sep-2021, Time: 14:02:36, ID: H10-21-CCV-0126, Description: PBDEX-CS#3-003, Vial: Tray1:1



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Last Altered: Thursday, September 16, 2021 15:21:47 Eastern Daylight Time
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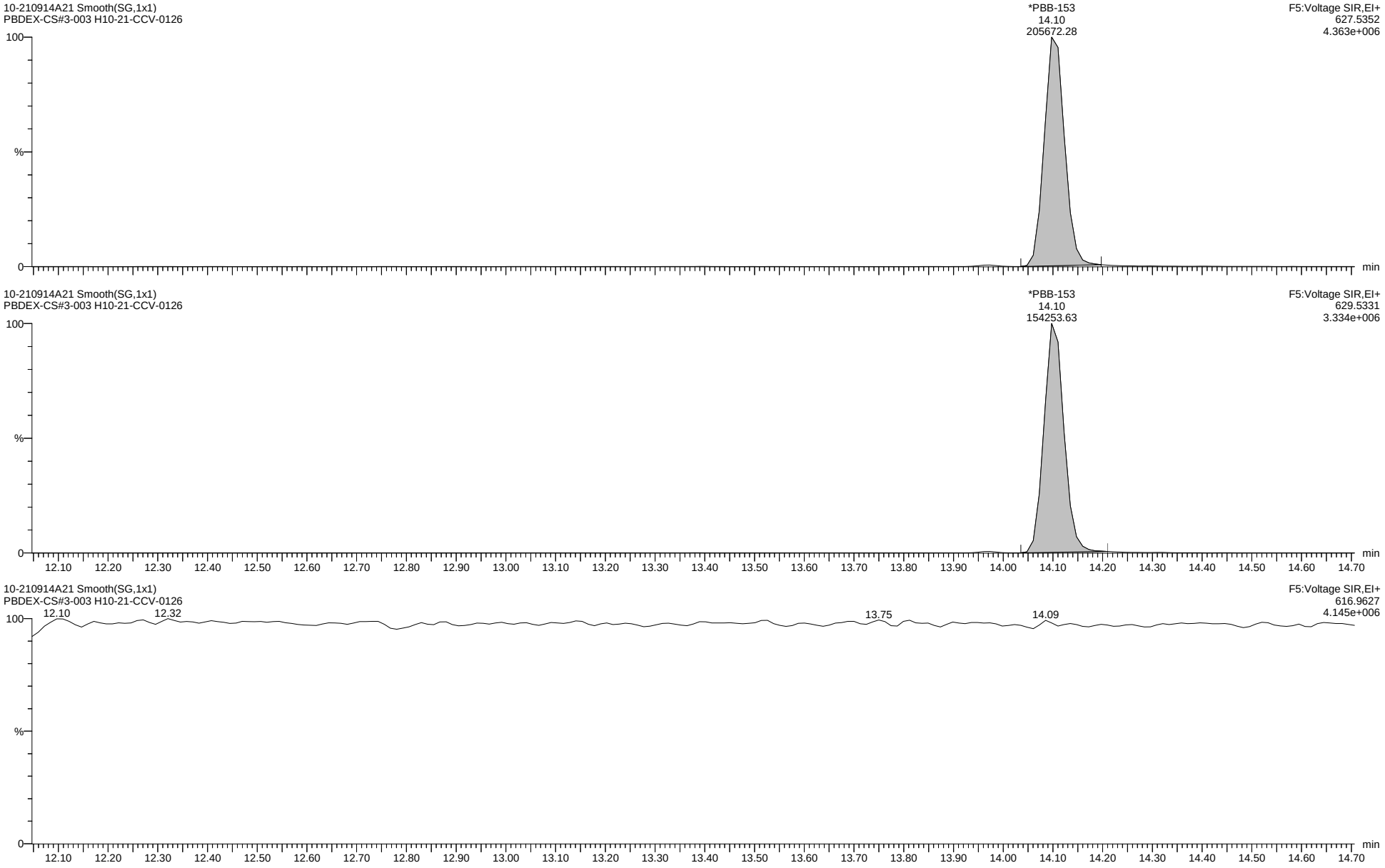
Name: 10-210914A21, Date: 15-Sep-2021, Time: 14:02:36, ID: H10-21-CCV-0126, Description: PBDEX-CS#3-003, Vial: Tray1:1



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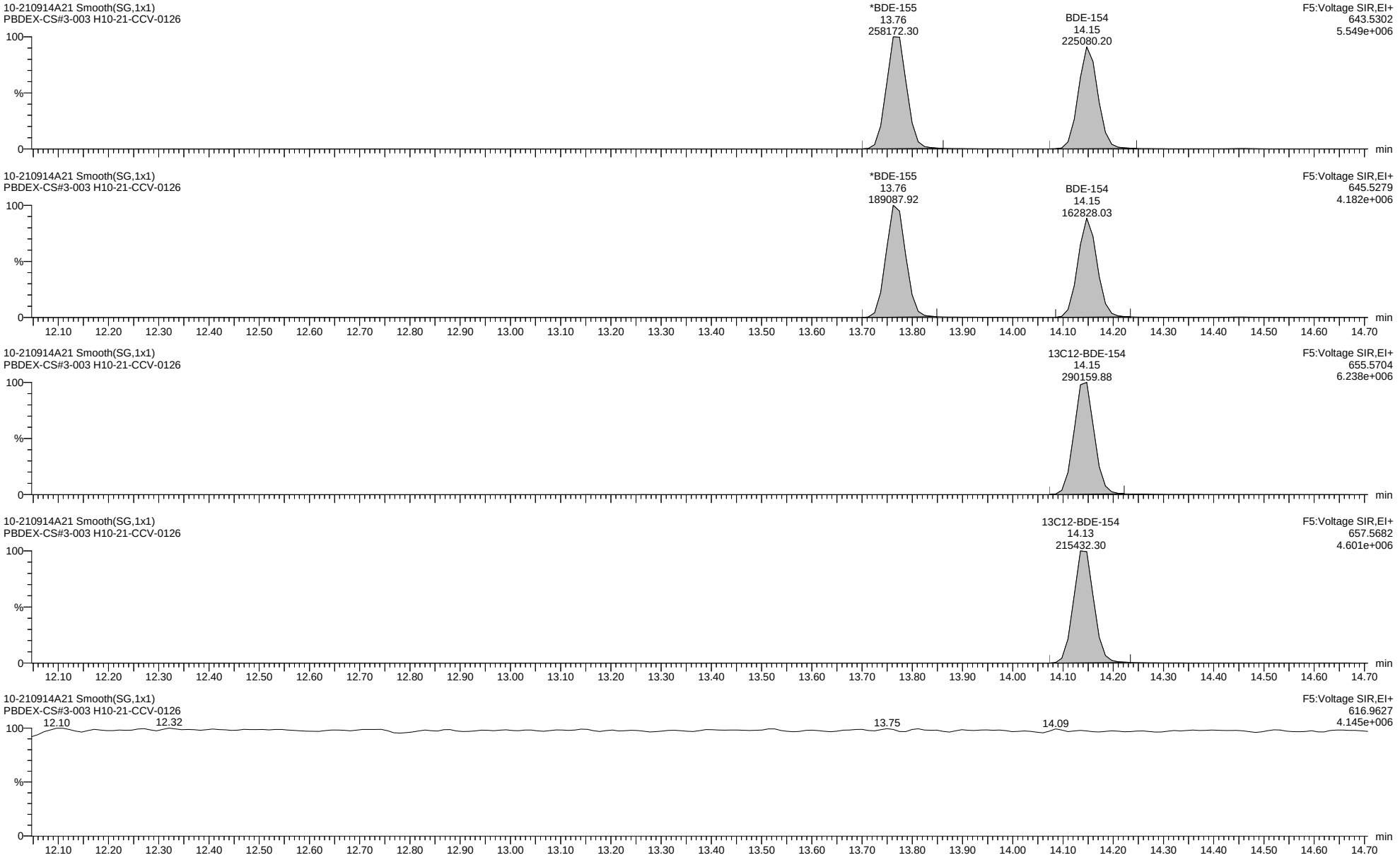

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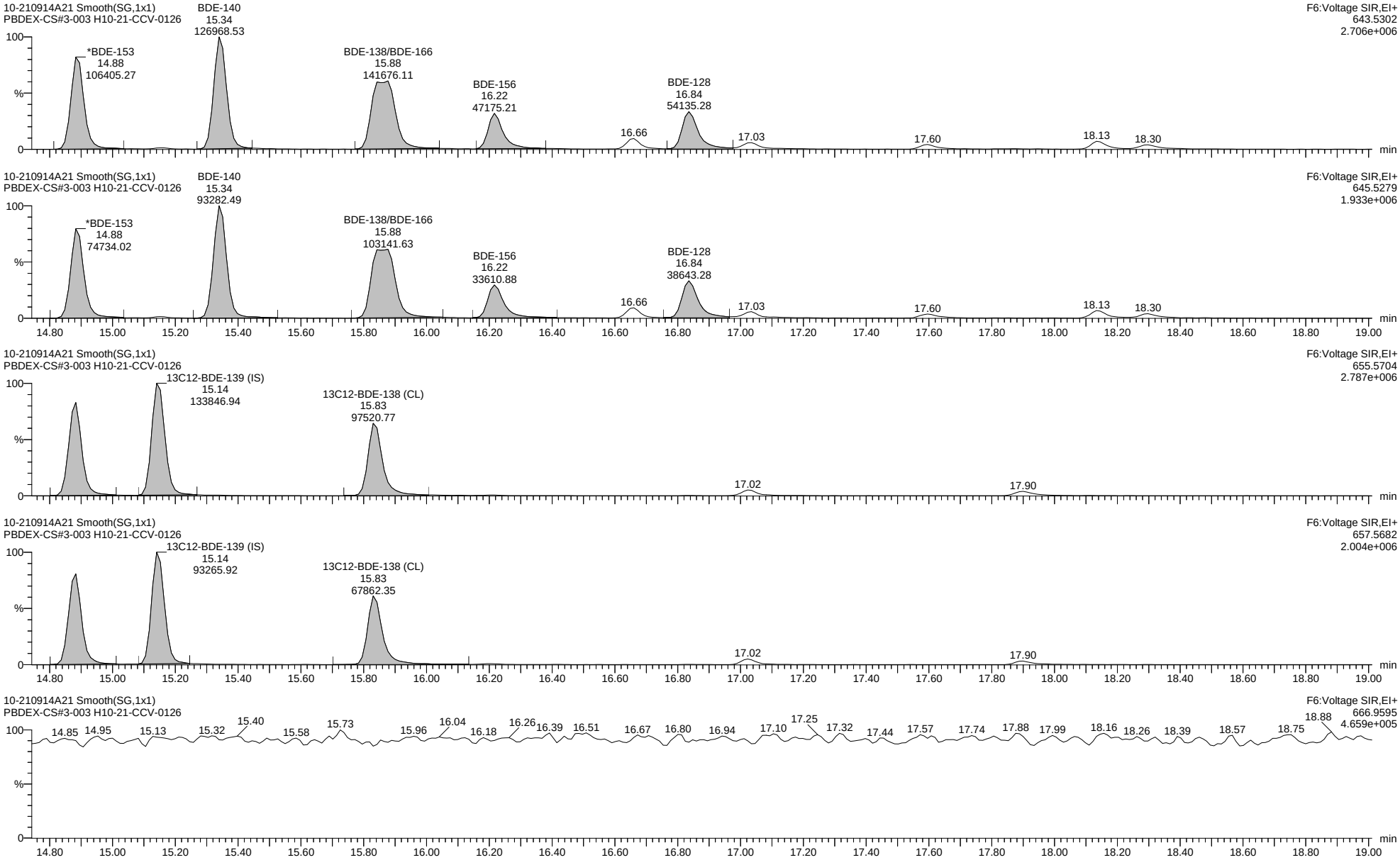

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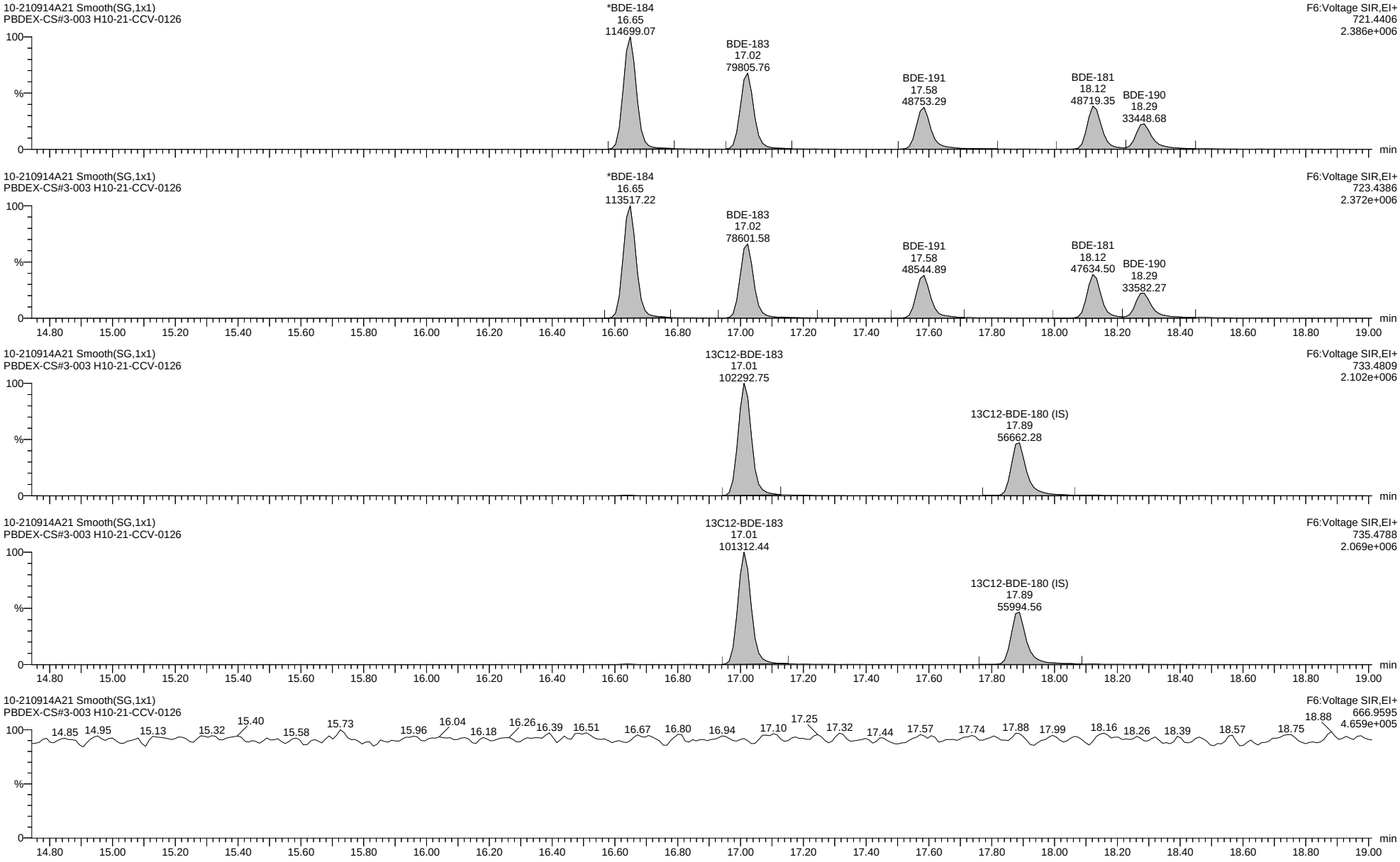

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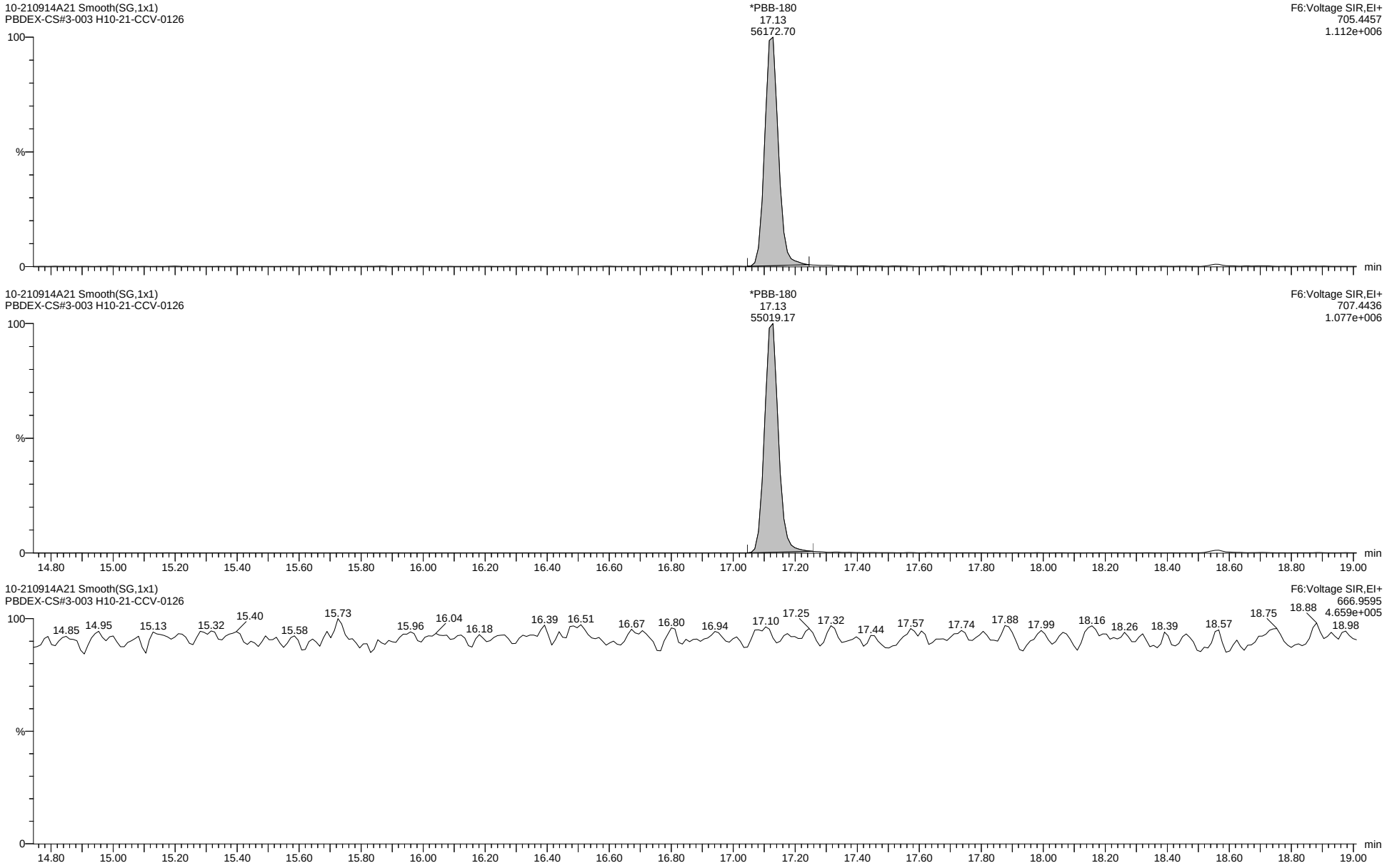

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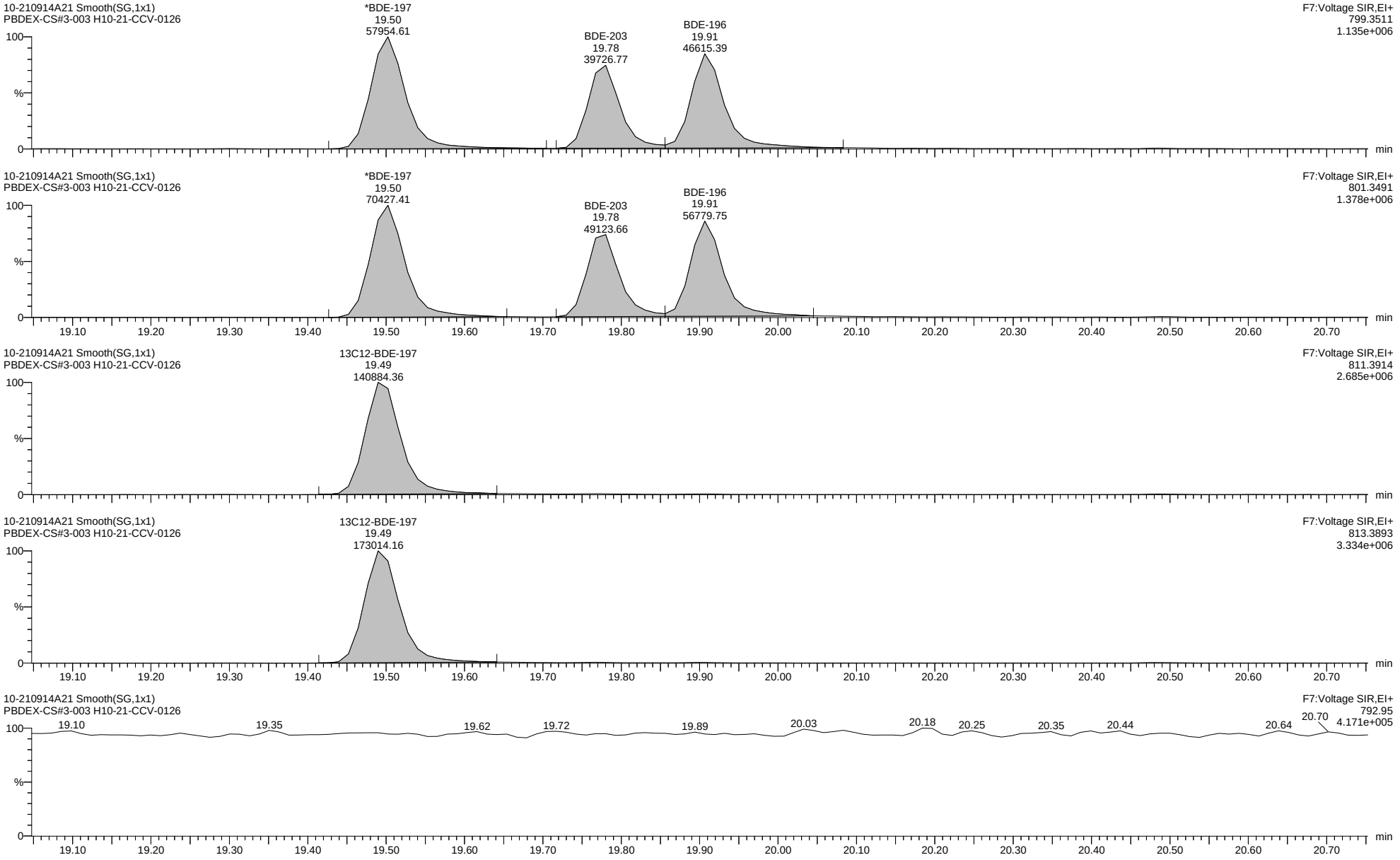

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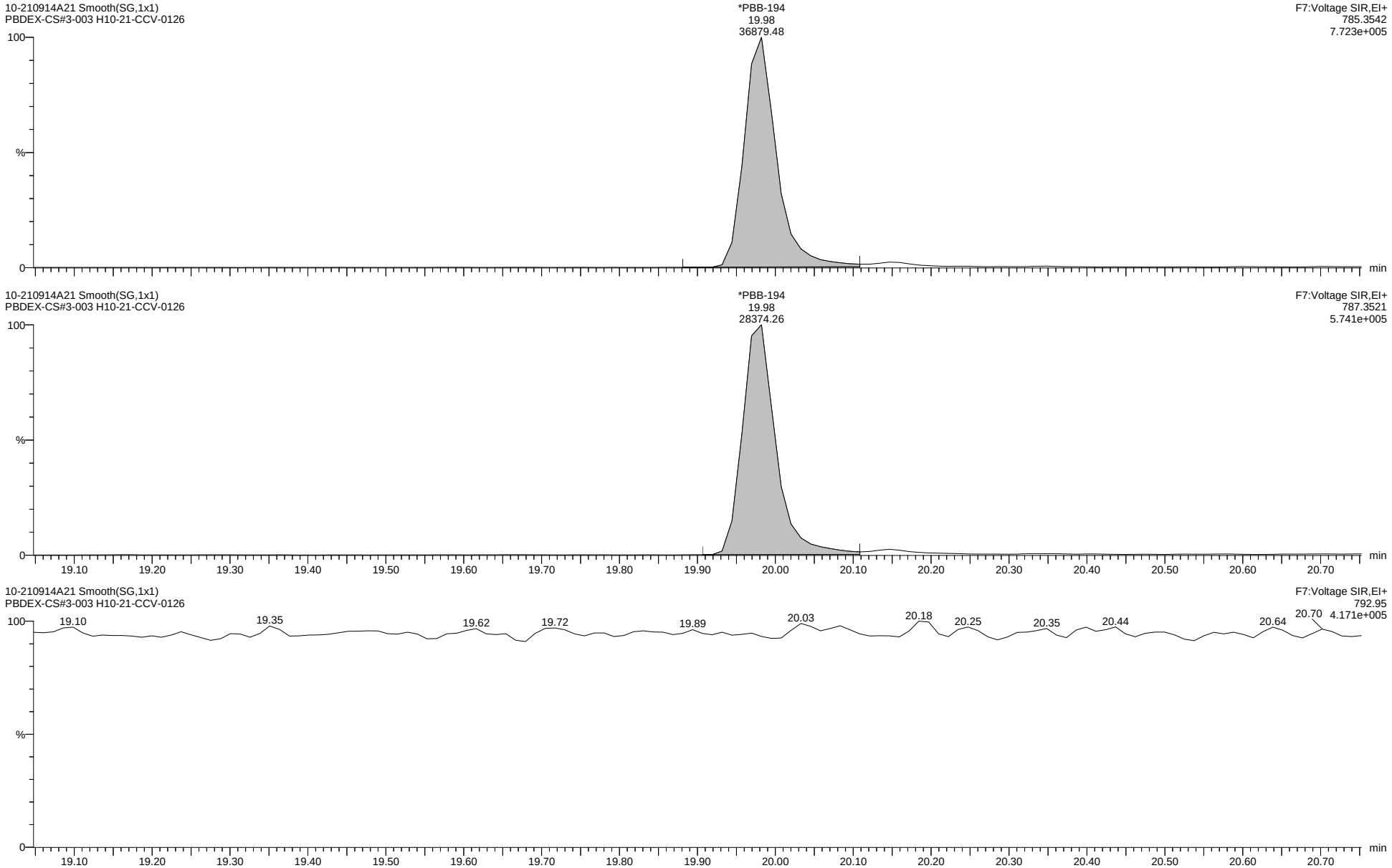

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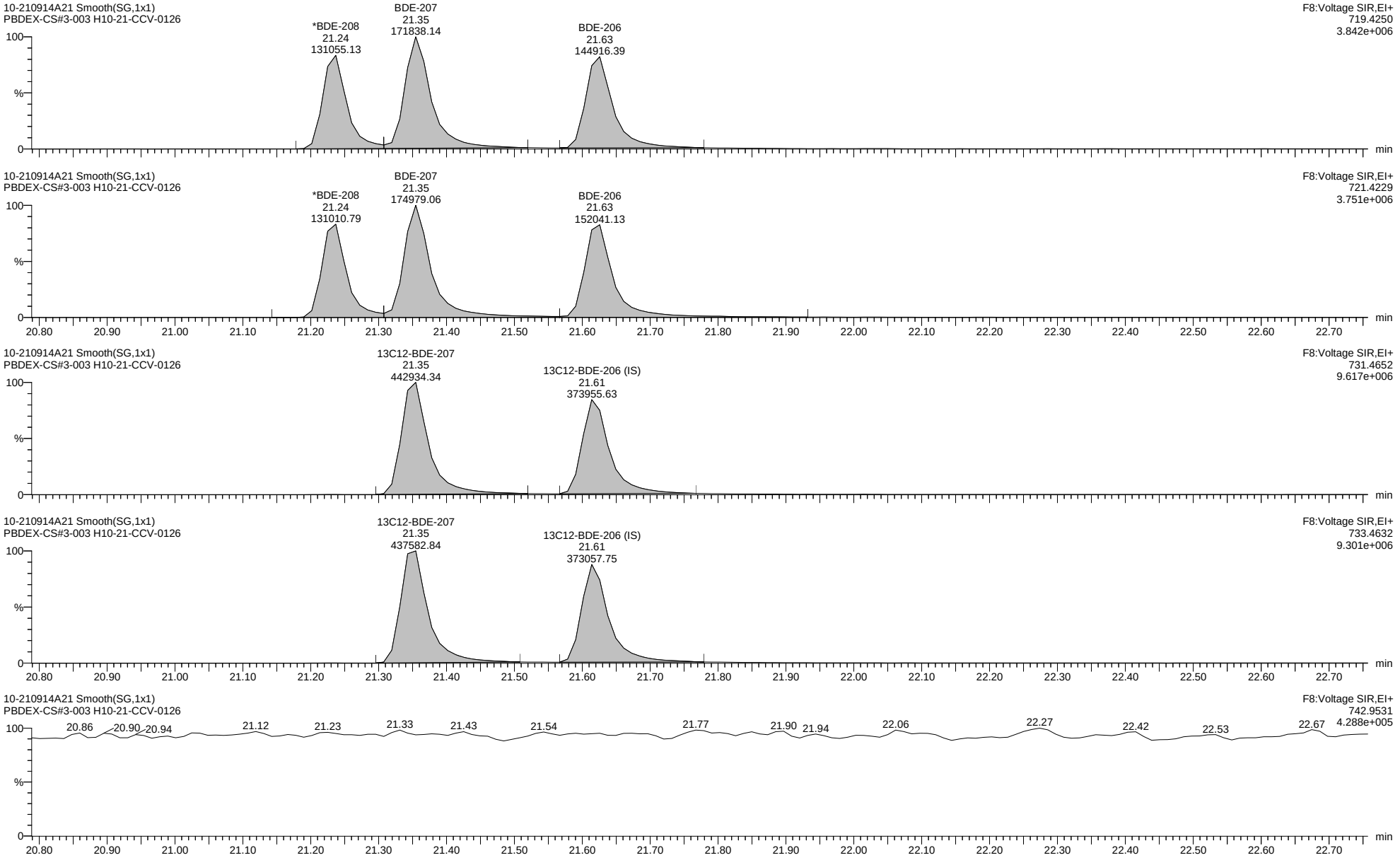

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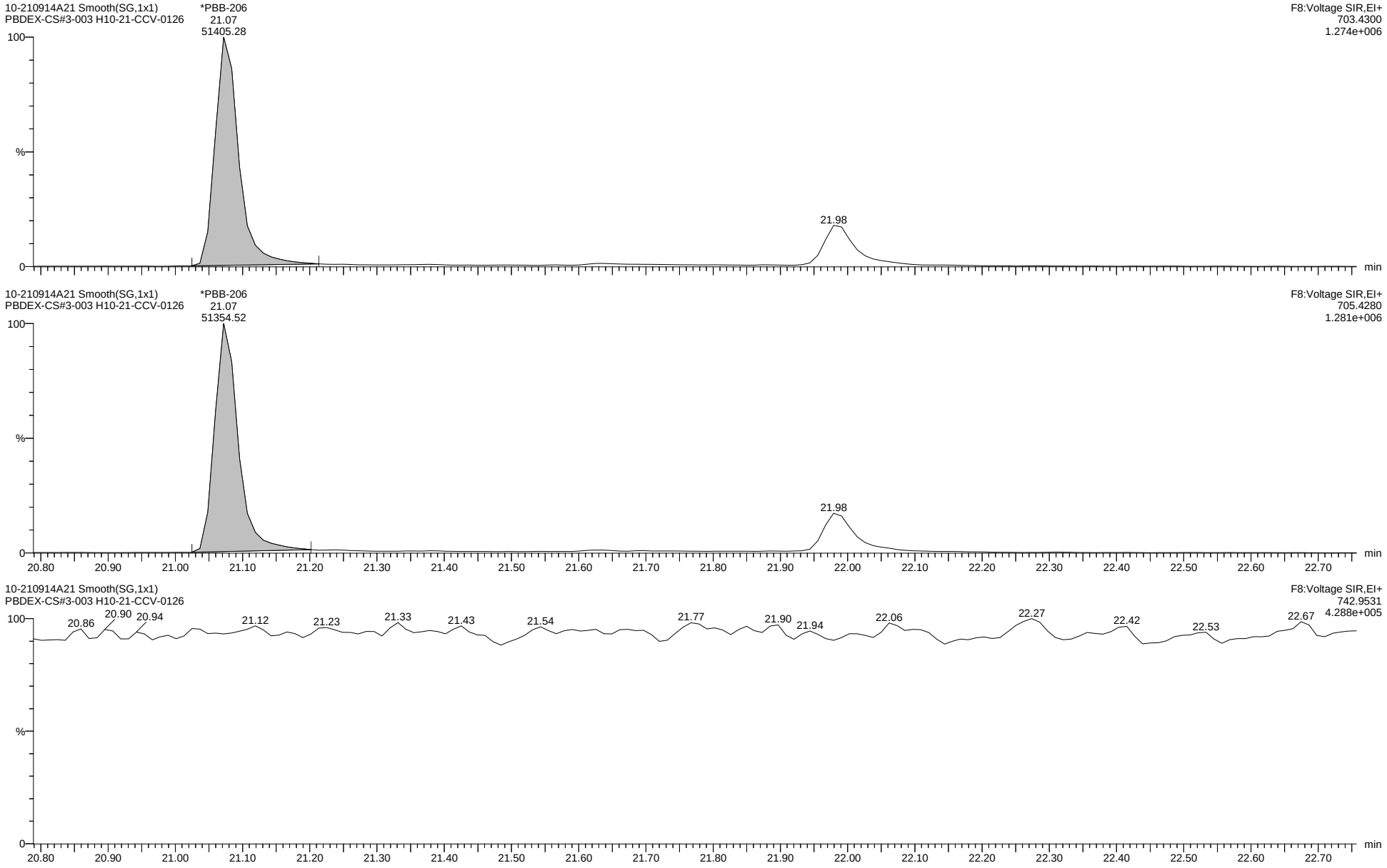

Dataset: I:\Organics Instrument\HIGHRES GCMS Completed Results Files\HR-10\2021\2109\10-210914A-Q3.qld

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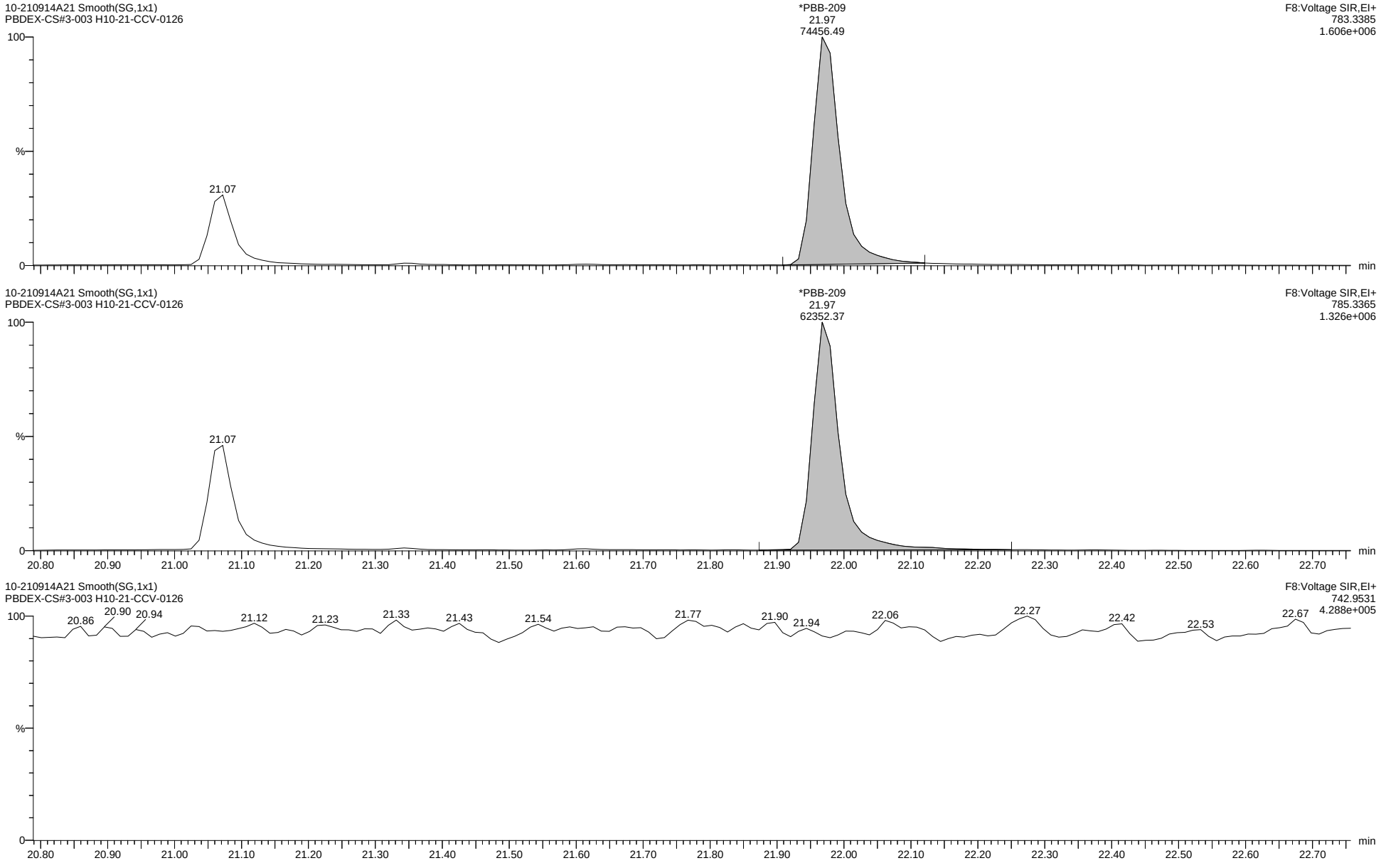

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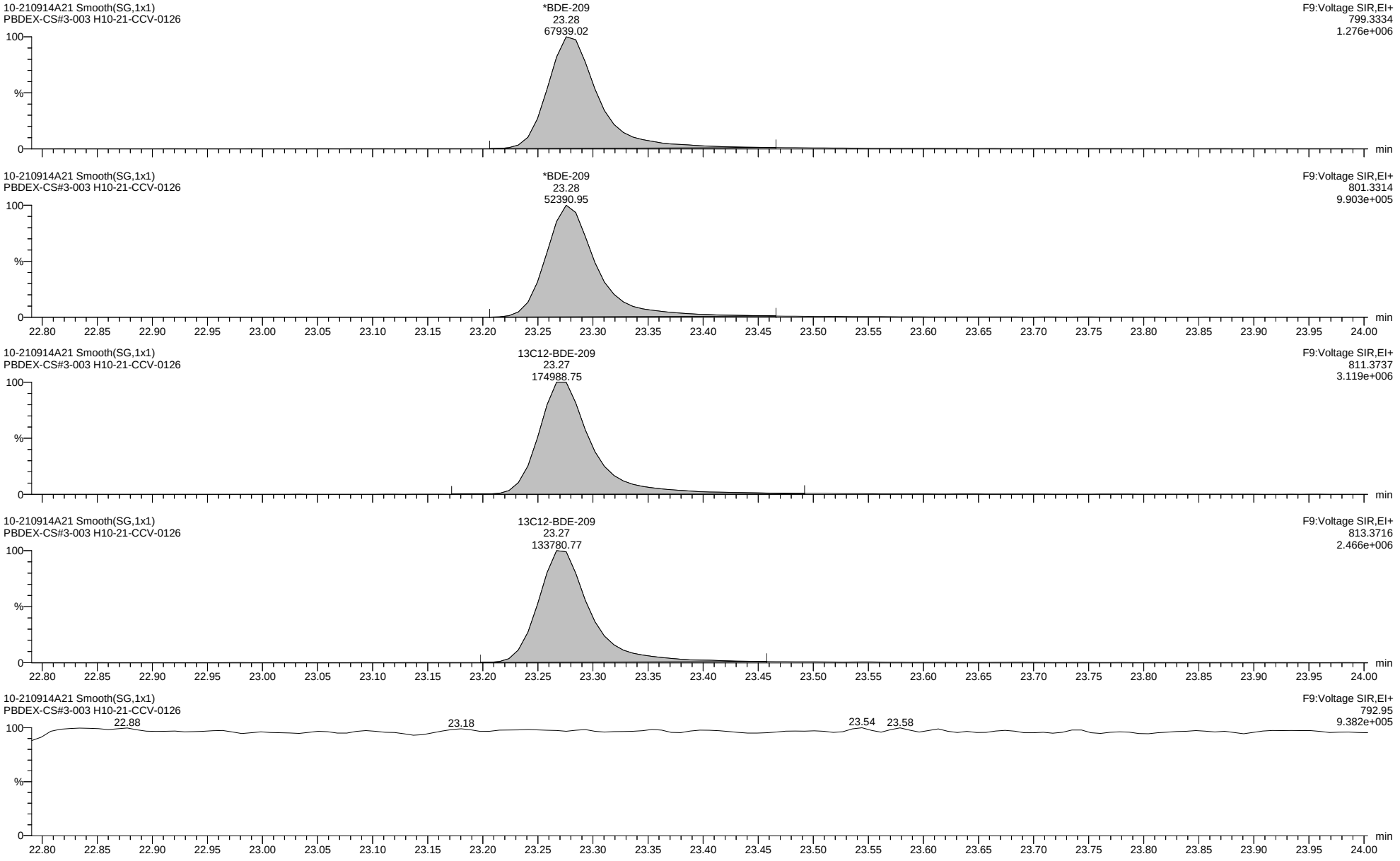

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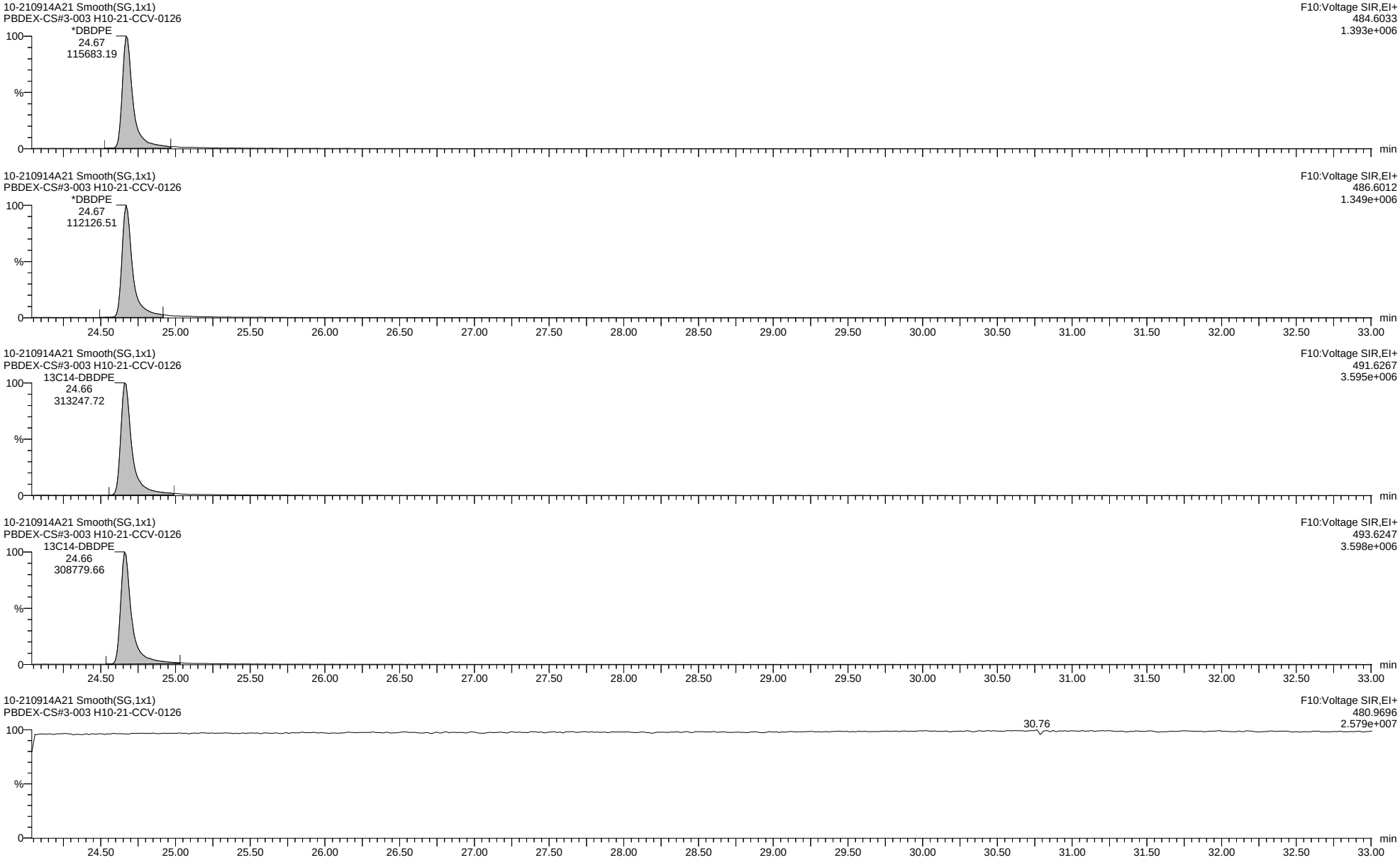

Quantify Sample Template Report **MassLynx MassLynx V4.1 SCN 901**

Dataset: I:\Organics Instrument\HIGHRES GCMS Completed Results Files\HR-10\2021\2109\10-210914A-Q3.qld

Last Altered: Thursday, September 16, 2021 15:21:47 Eastern Daylight Time
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Calibration: C:\MassLynx\PBDE.PRO\CurveDB\10-210913B-ICAL-PBDE.cdb 14 Sep 2021 11:07:06

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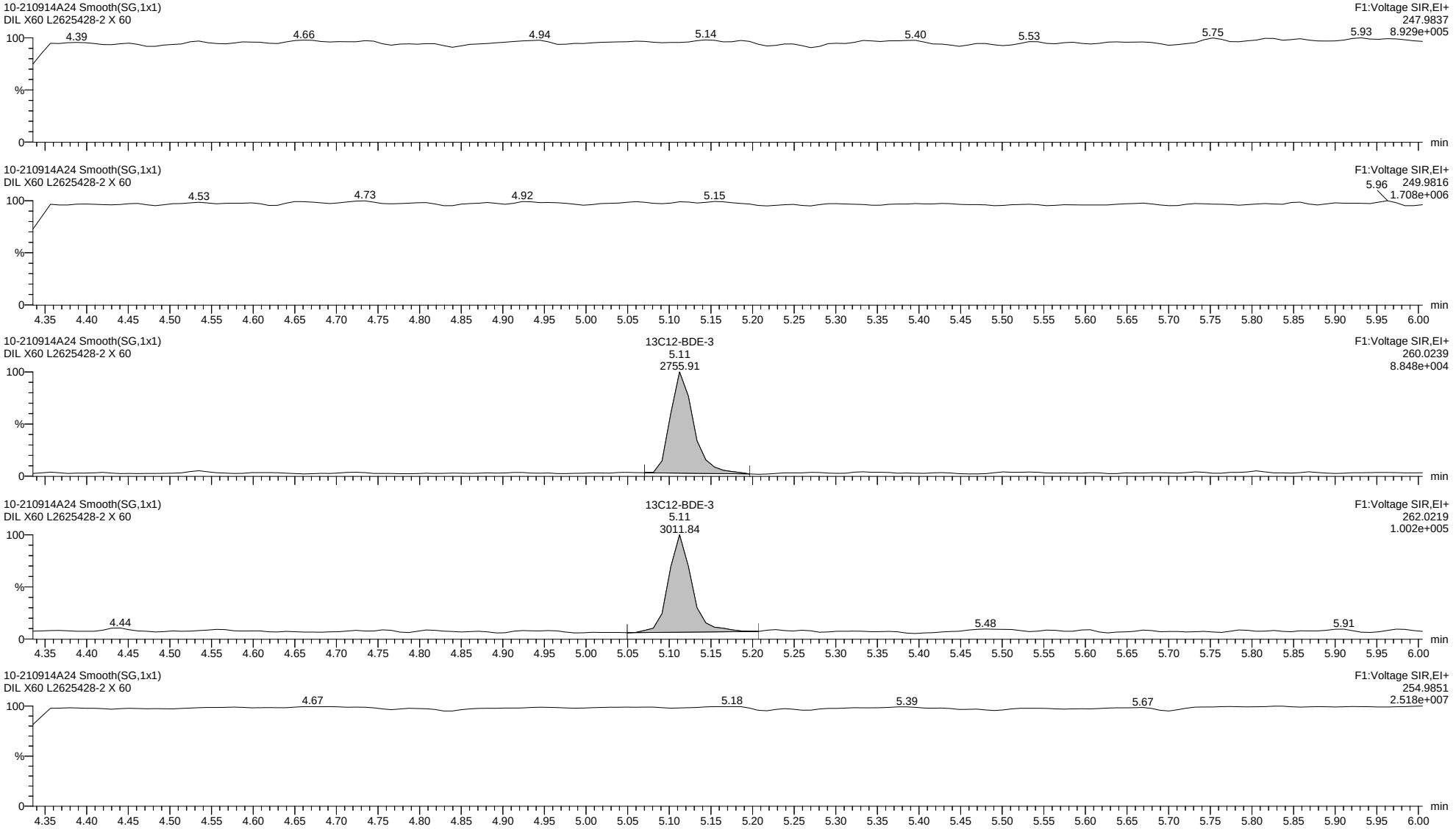

Quantify Sample Template Report **MassLynx MassLynx V4.1 SCN 901**

Dataset: I:\Organics Instrument\HIGHRES GCMS Completed Results Files\HR-10\2021\2109\10-210914A-Q3.qld

Last Altered: Thursday, September 16, 2021 15:21:47 Eastern Daylight Time
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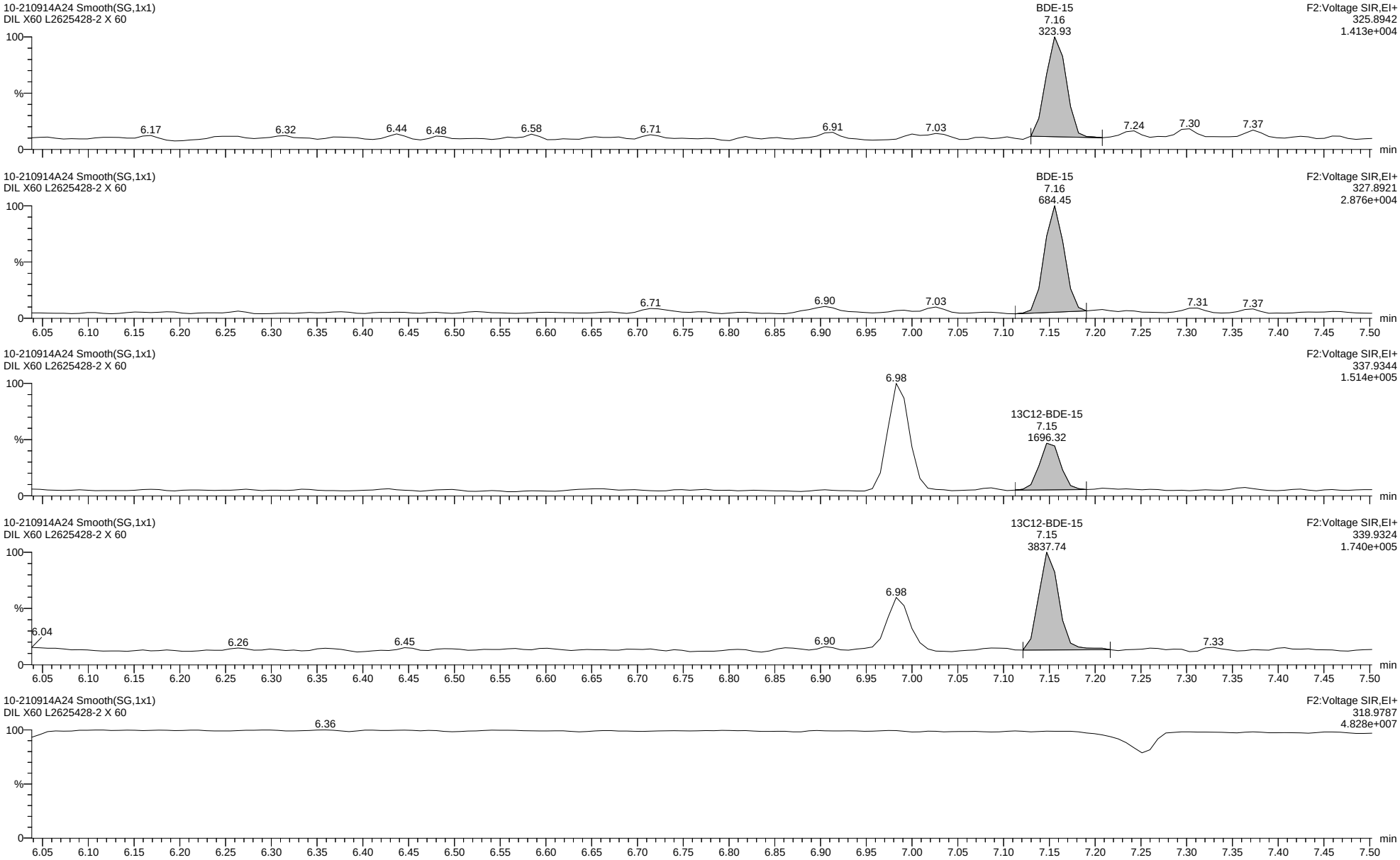

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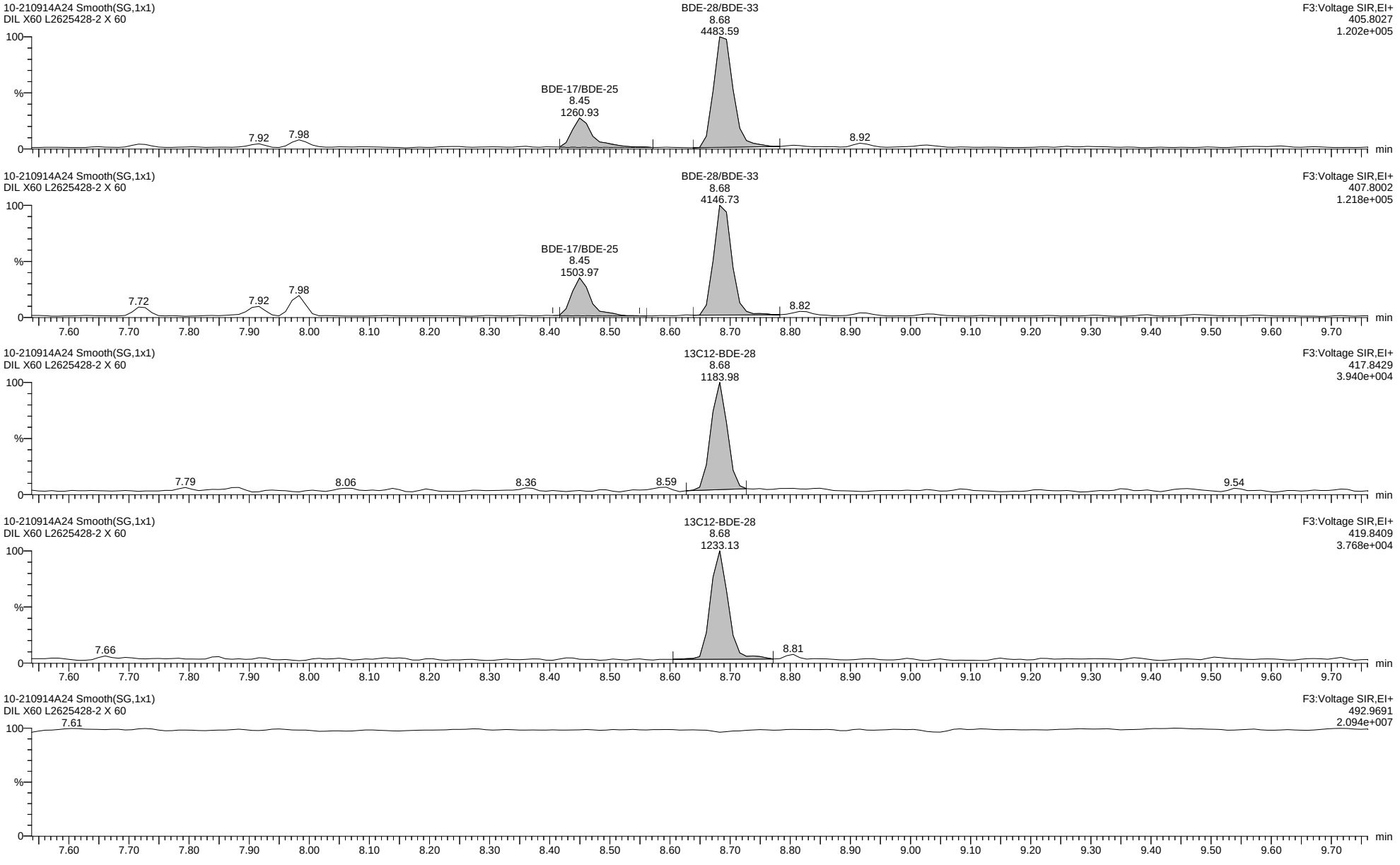

Dataset: I:\Organics Instrument\HIGHRES GCMS Completed Results Files\HR-10\2021\2109\10-210914A-Q3.qld

Last Altered: Thursday, September 16, 2021 15:21:47 Eastern Daylight Time
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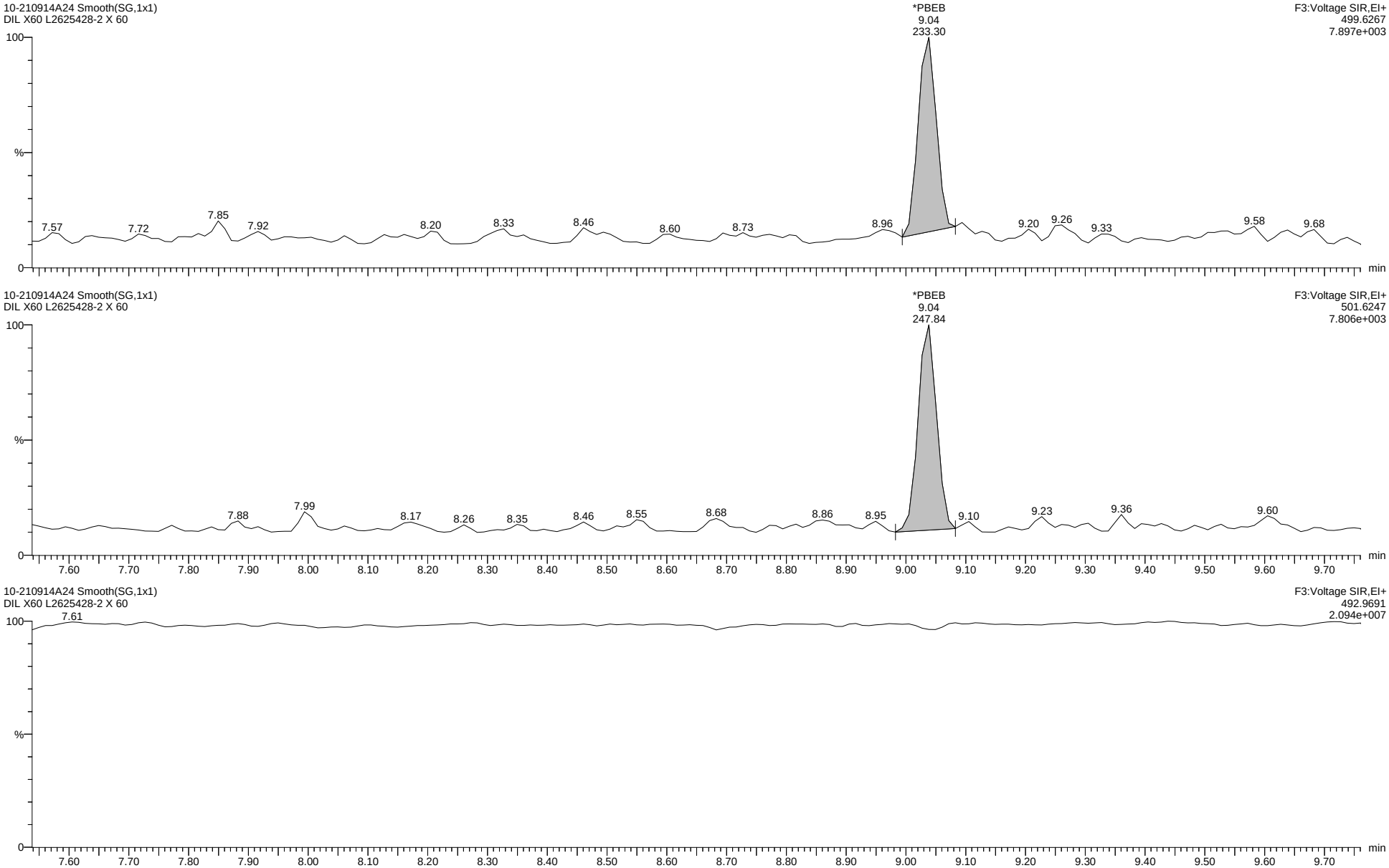

Quantify Sample Template Report **MassLynx MassLynx V4.1 SCN 901**

Dataset: I:\Organics Instrument\HIGHRES GCMS Completed Results Files\HR-10\2021\2109\10-210914A-Q3.qld

Last Altered: Thursday, September 16, 2021 15:21:47 Eastern Daylight Time
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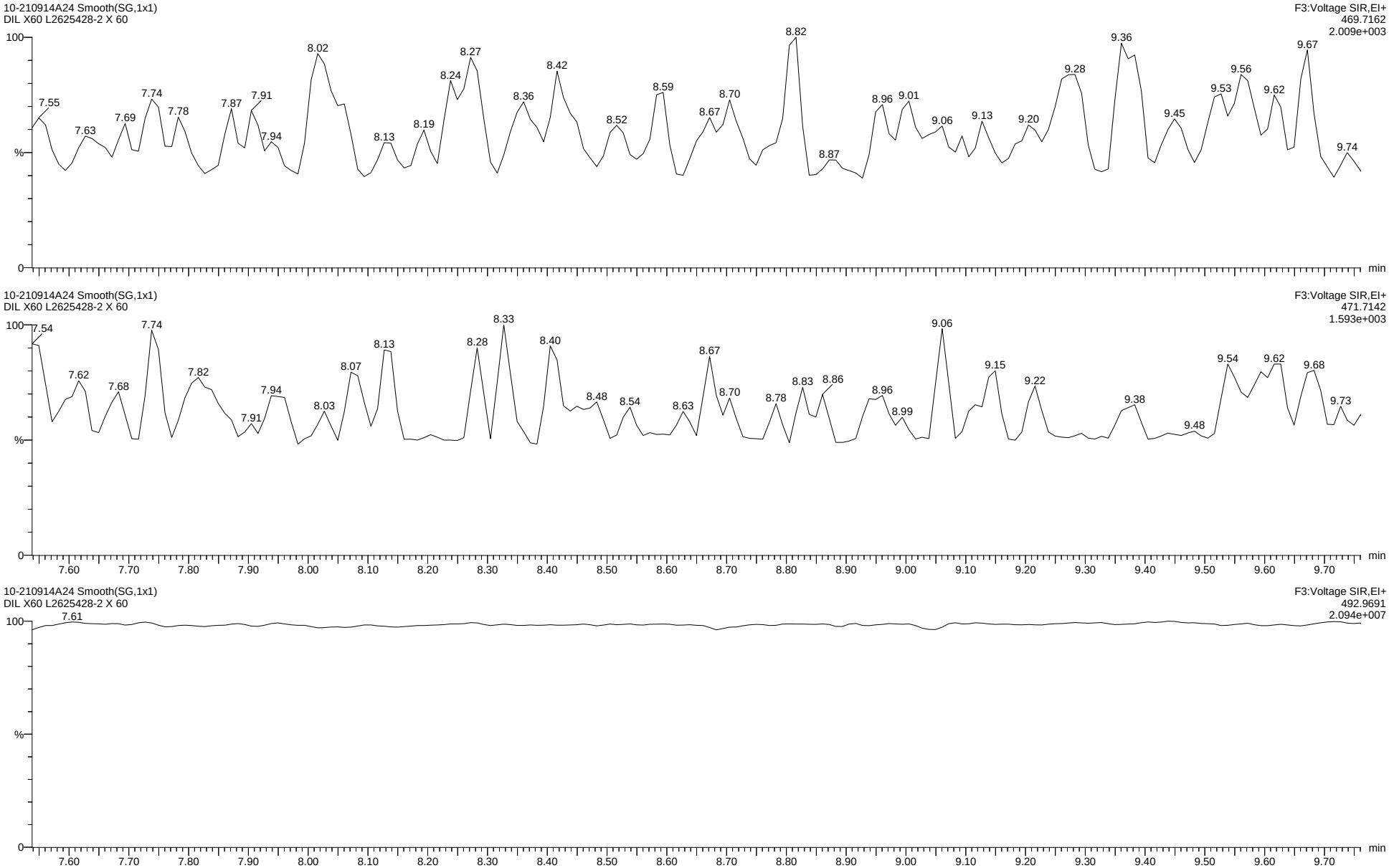

Quantify Sample Template Report **MassLynx MassLynx V4.1 SCN 901**

Dataset: I:\Organics Instrument\HIGHRES GCMS Completed Results Files\HR-10\2021\2109\10-210914A-Q3.qld

Last Altered: Thursday, September 16, 2021 15:21:47 Eastern Daylight Time
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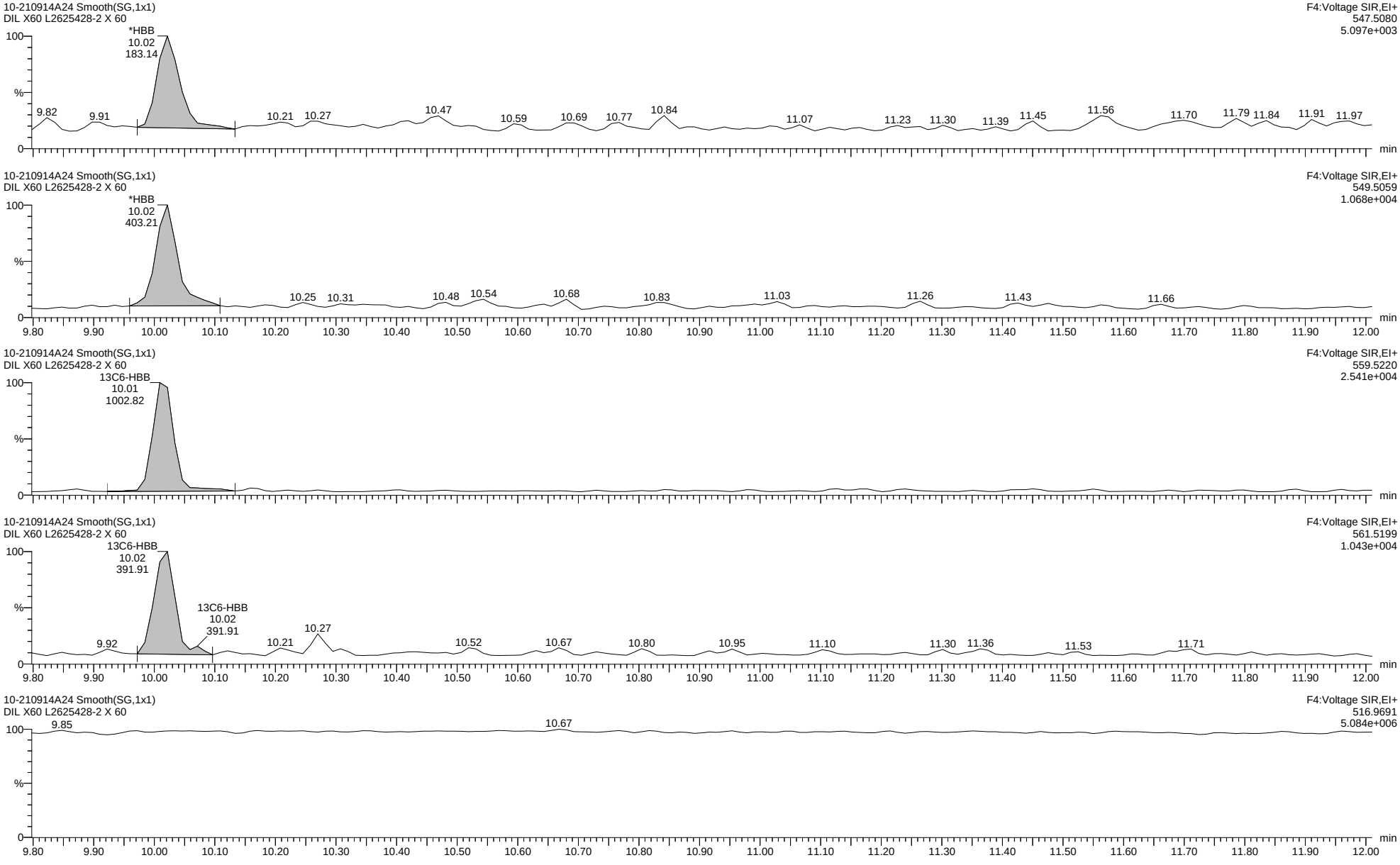

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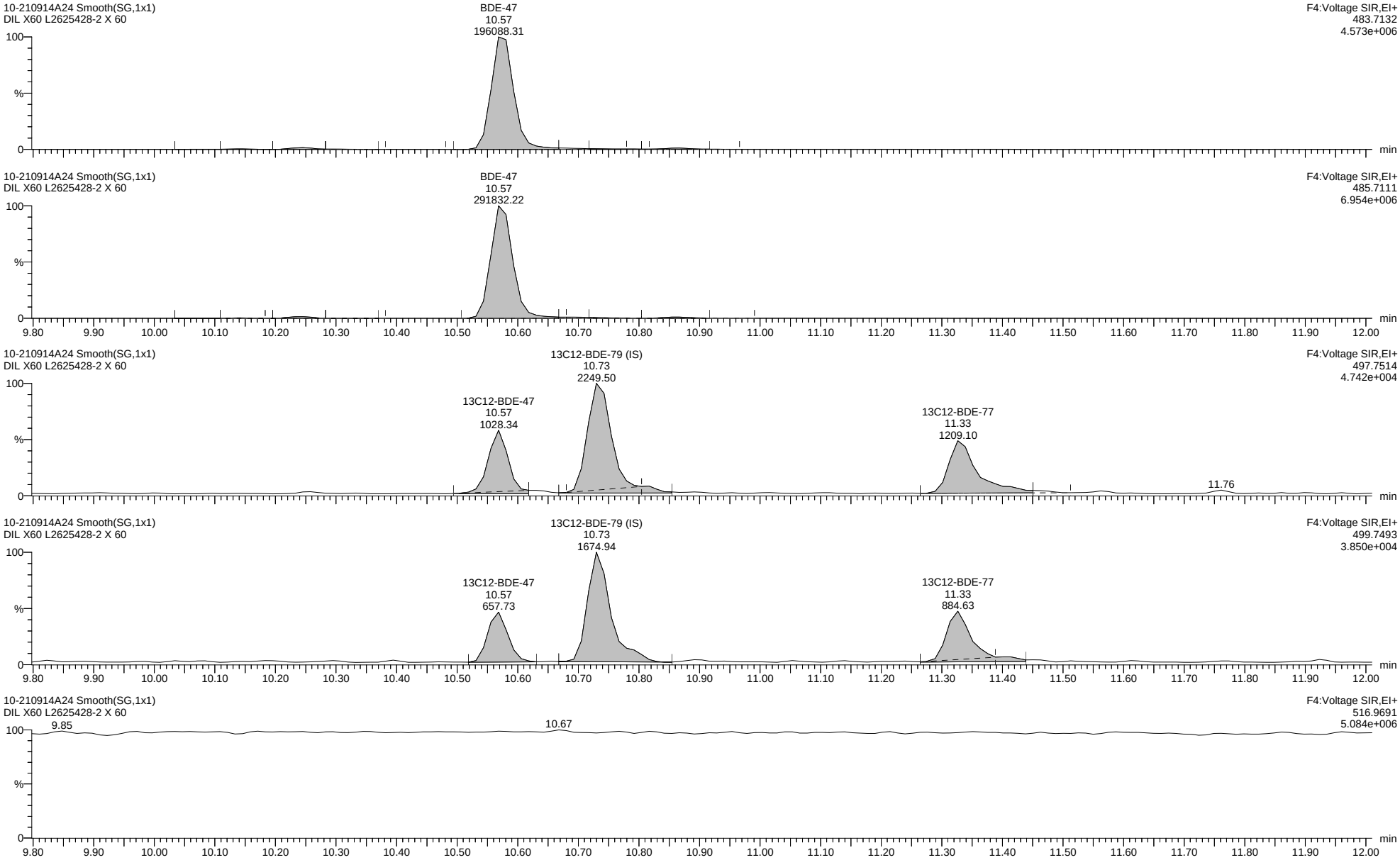

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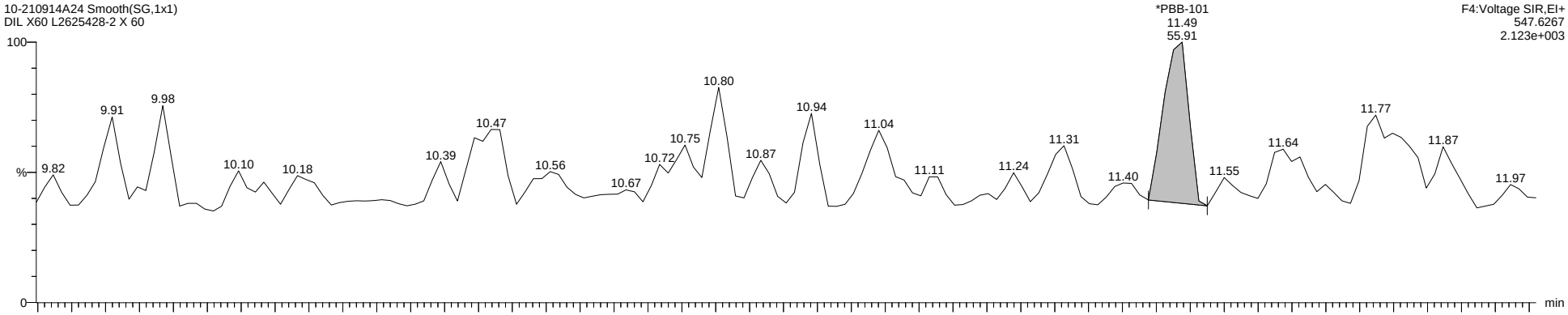

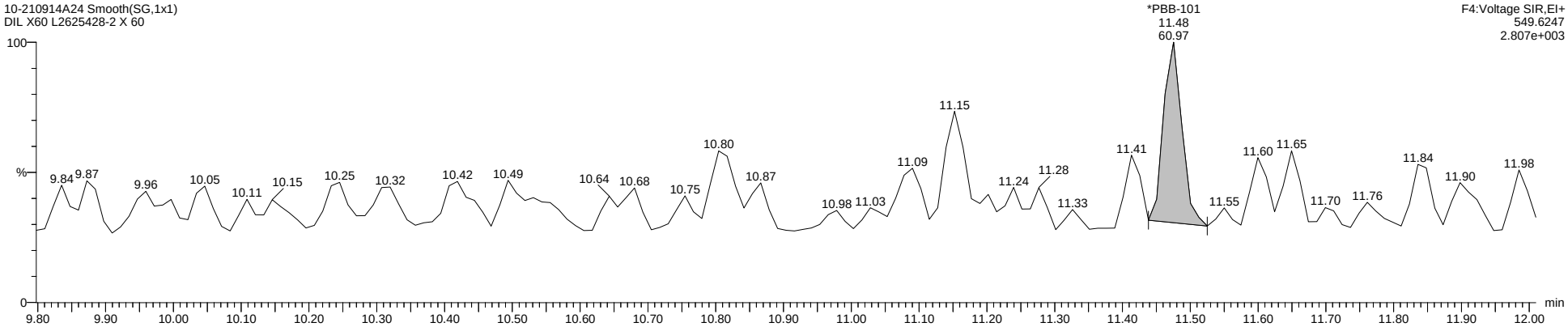

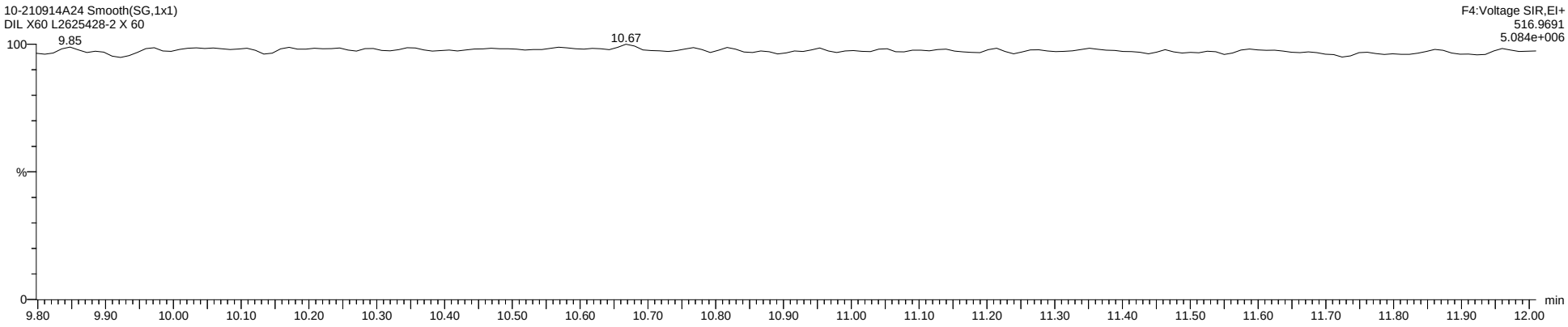

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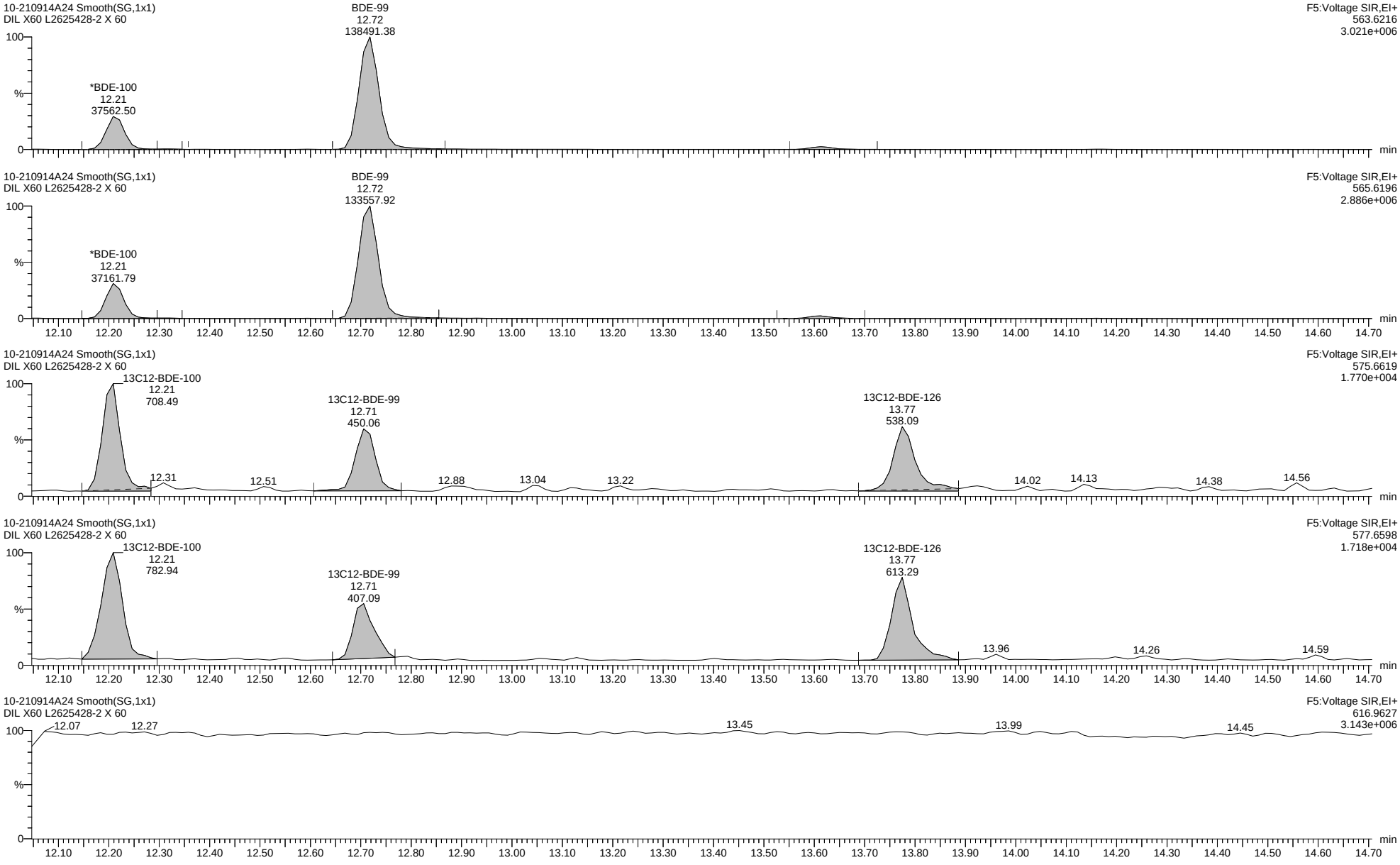

Quantify Sample Template Report **MassLynx MassLynx V4.1 SCN 901**

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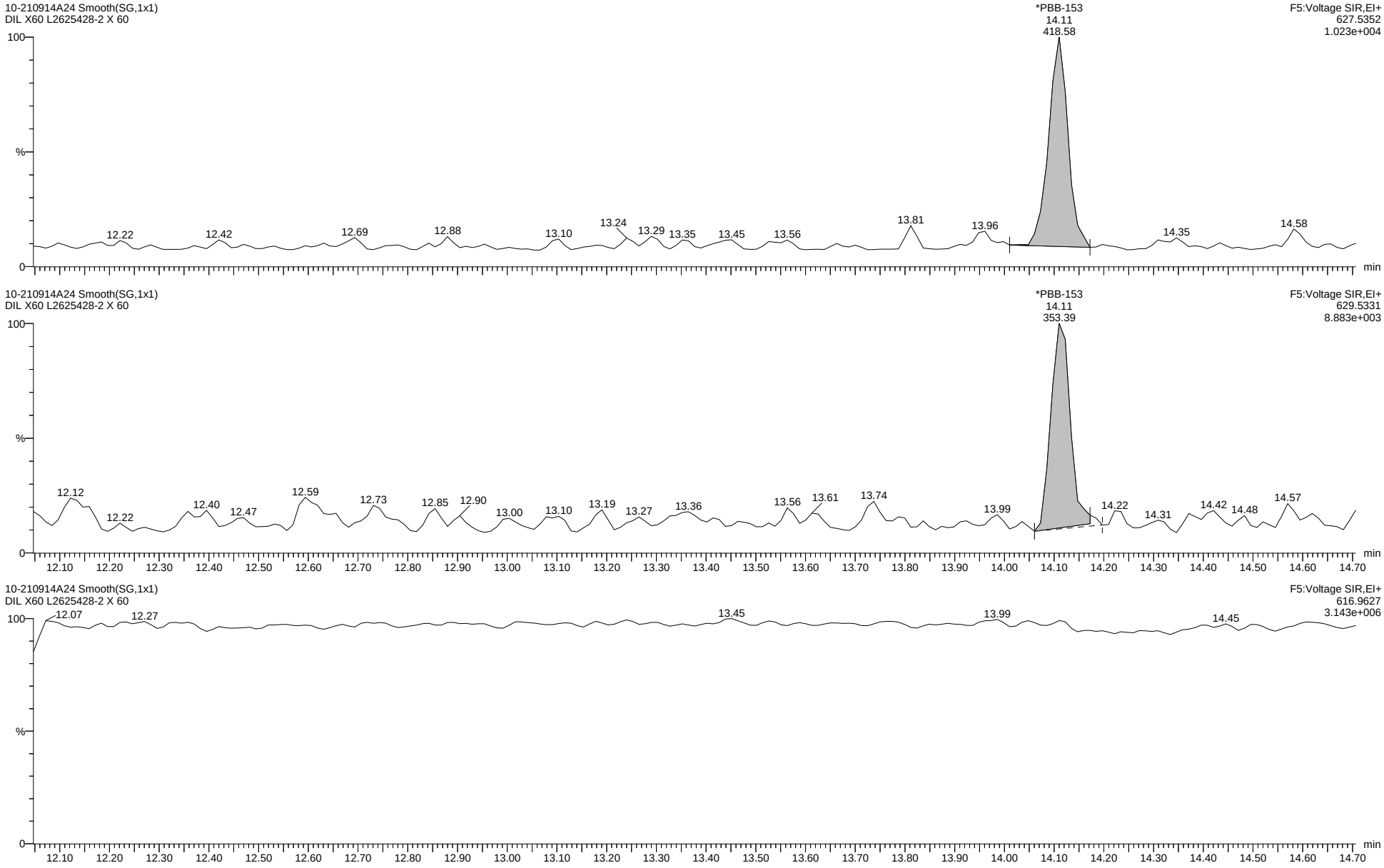

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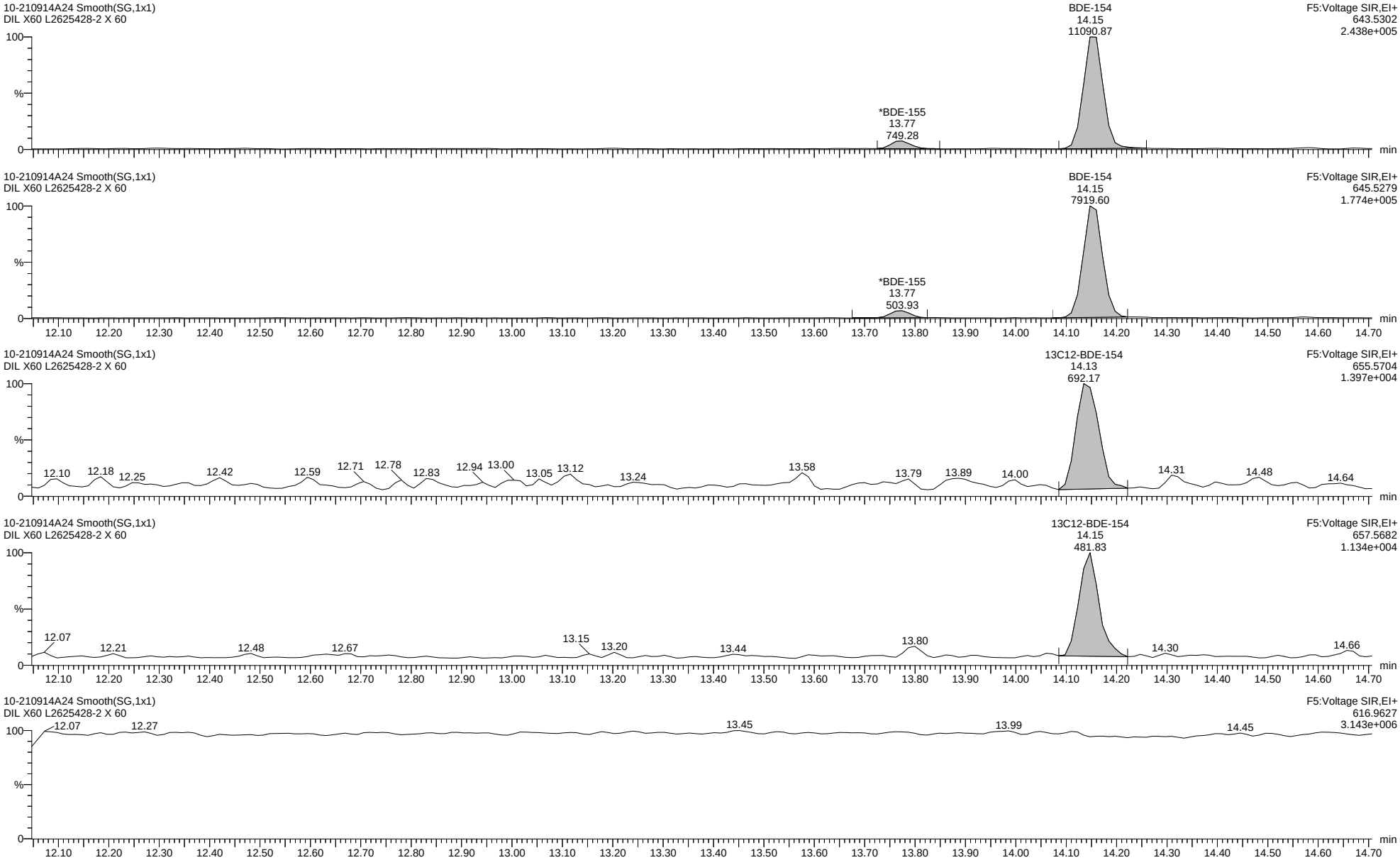

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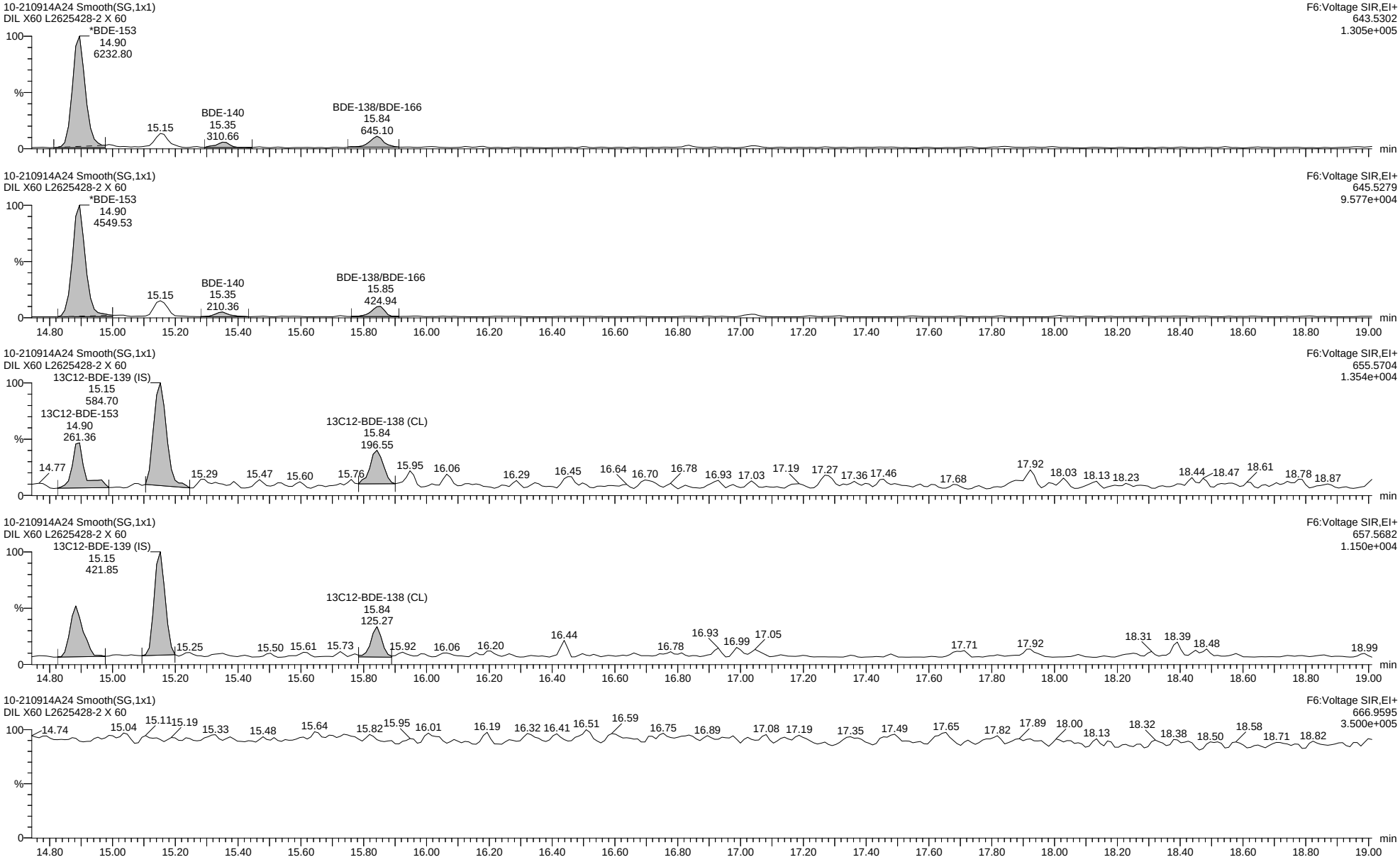

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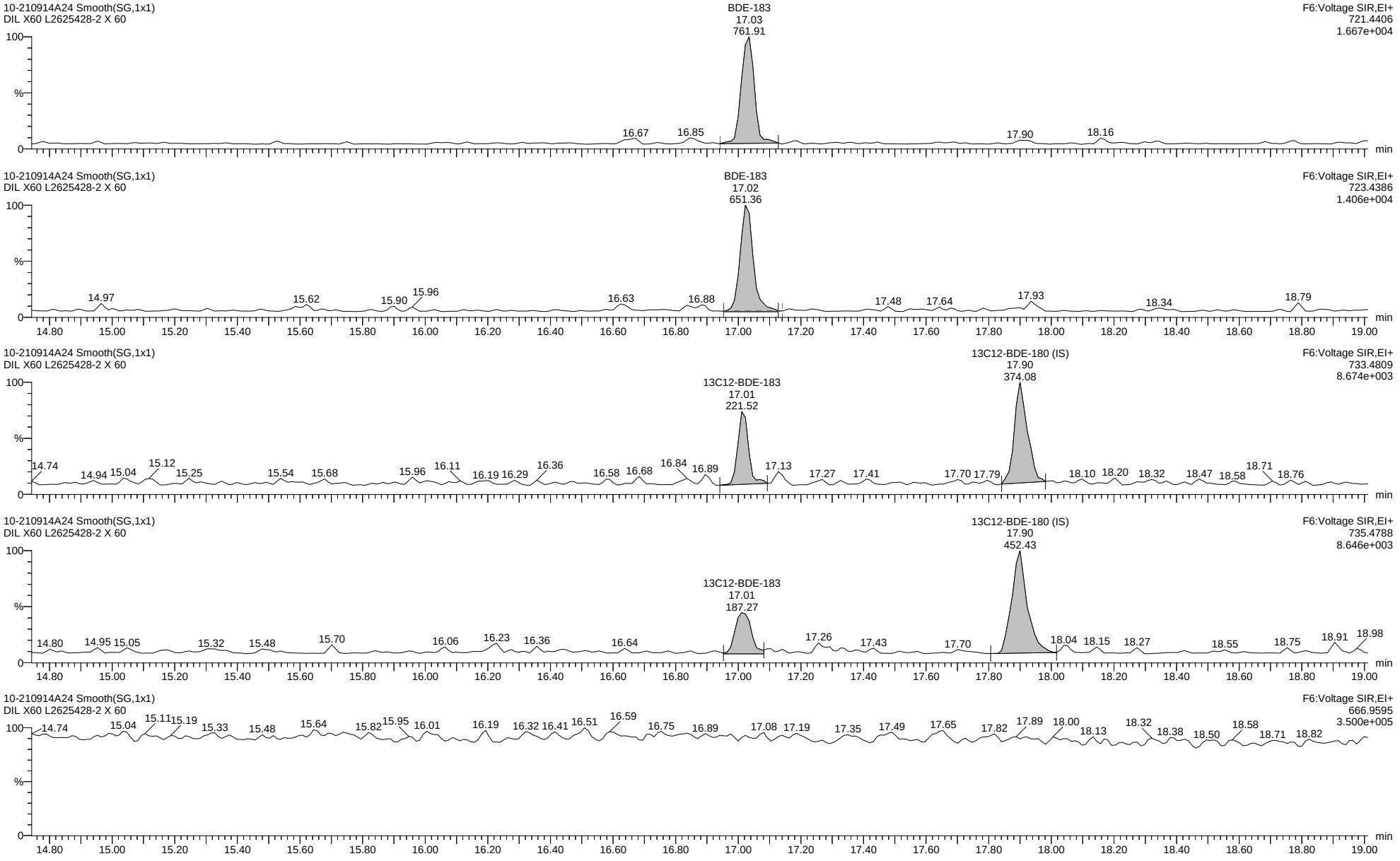

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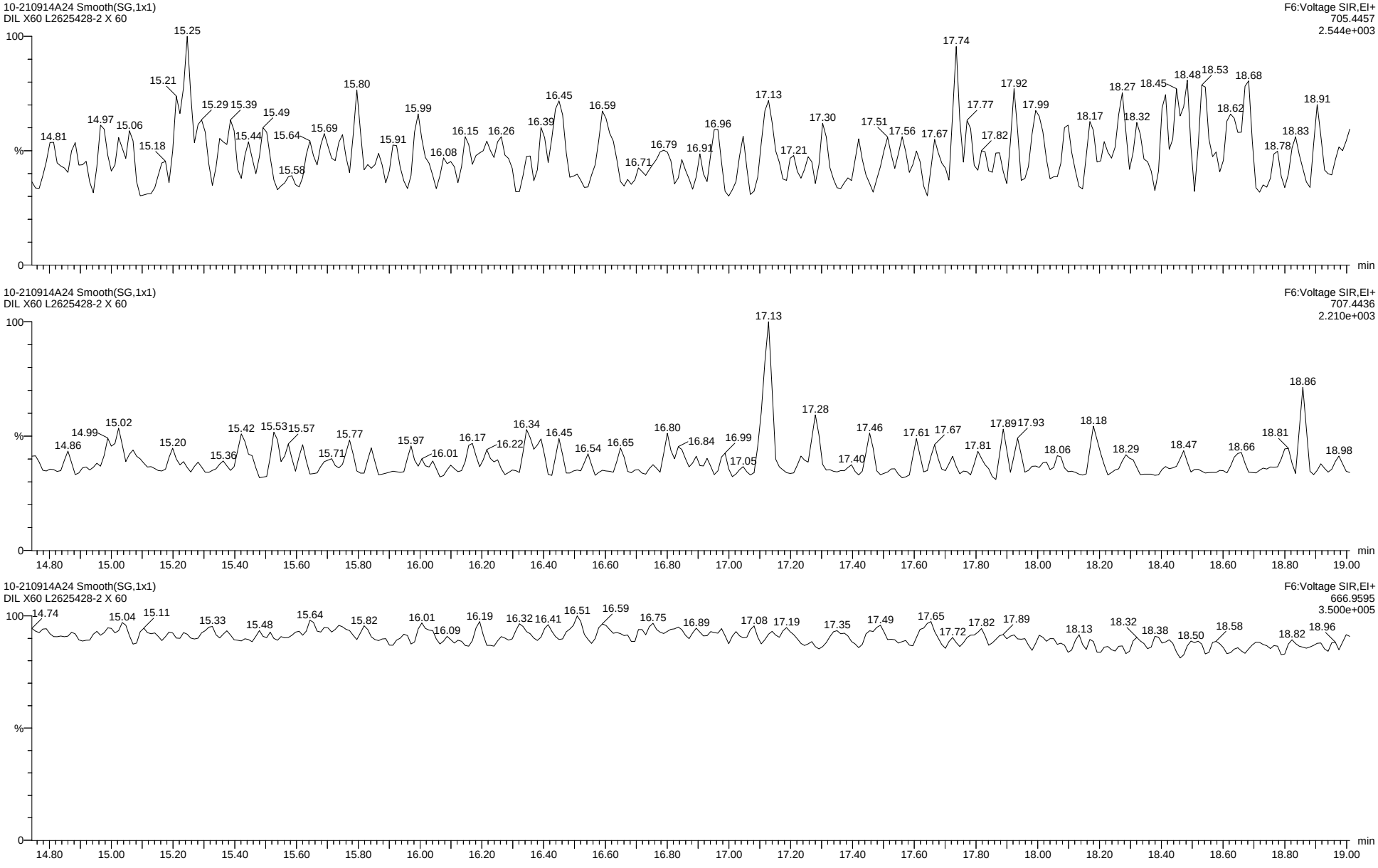

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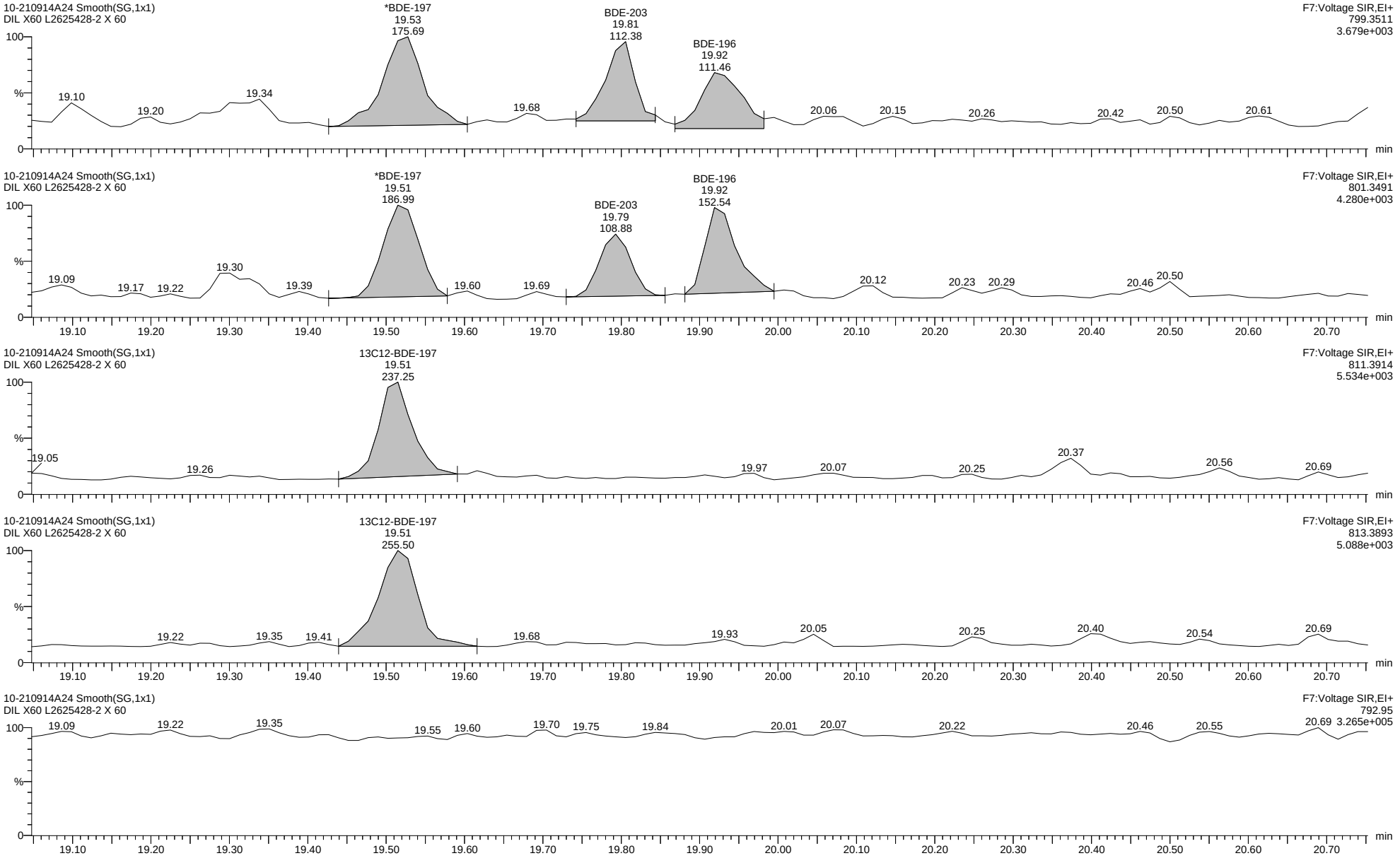

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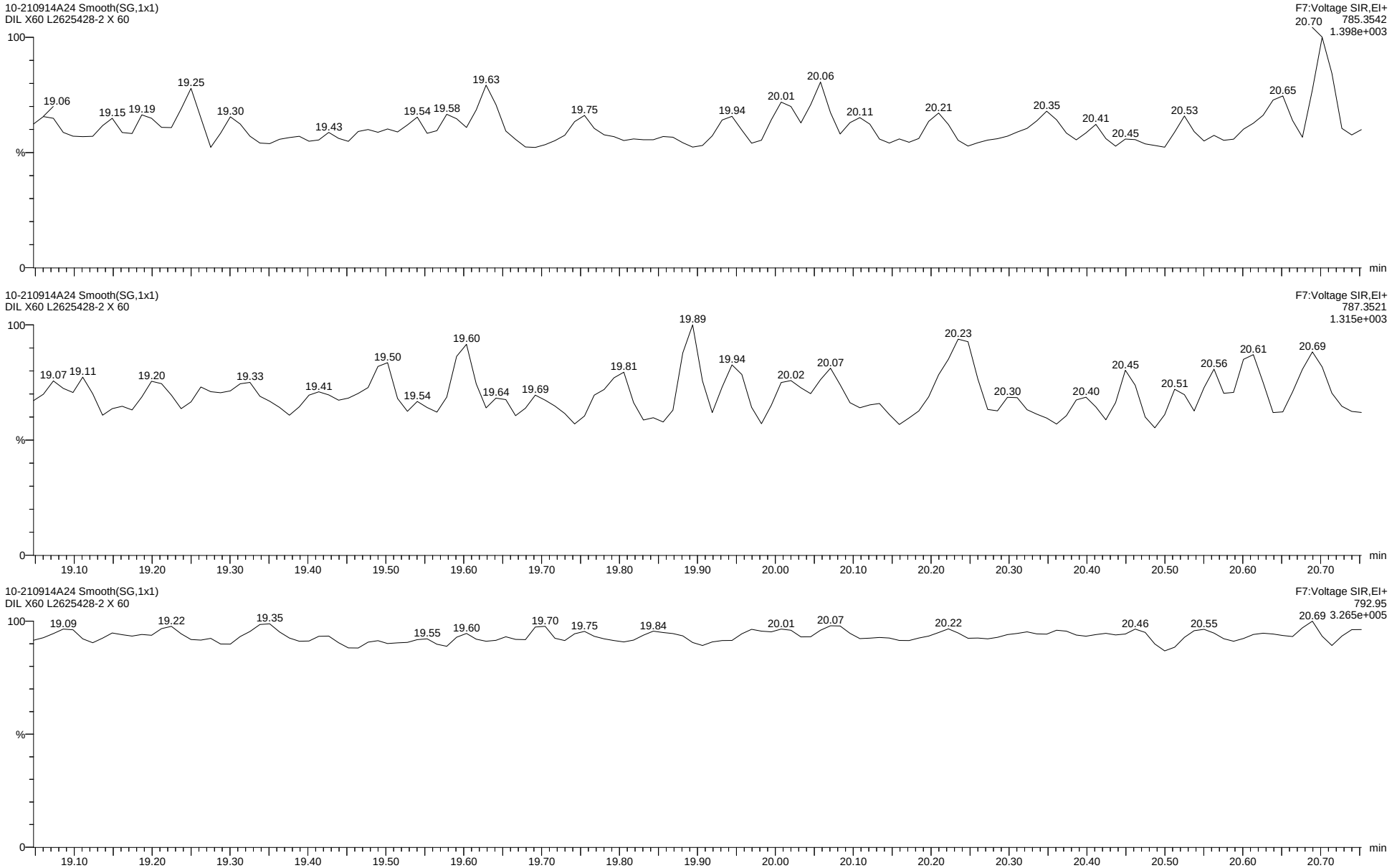

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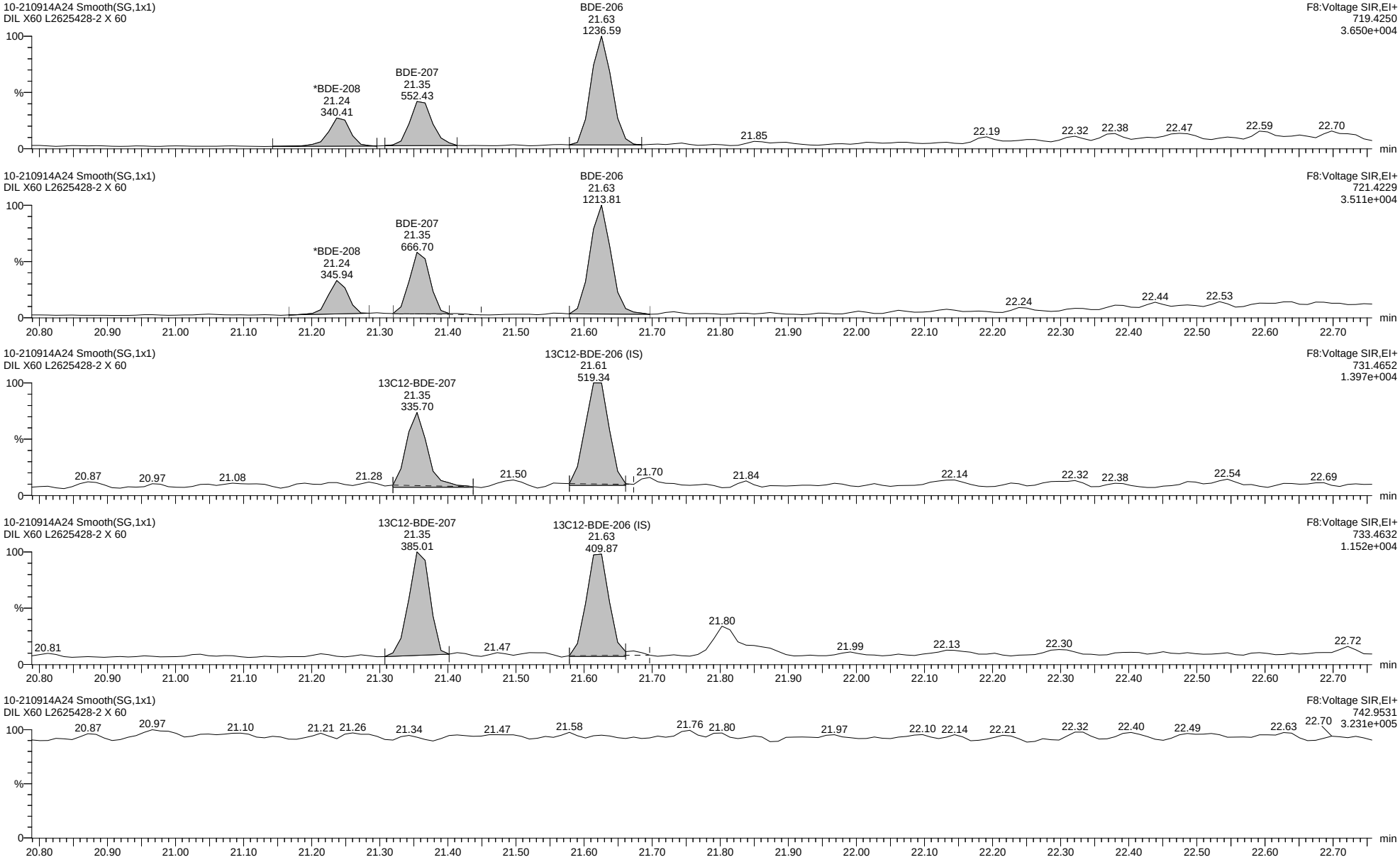

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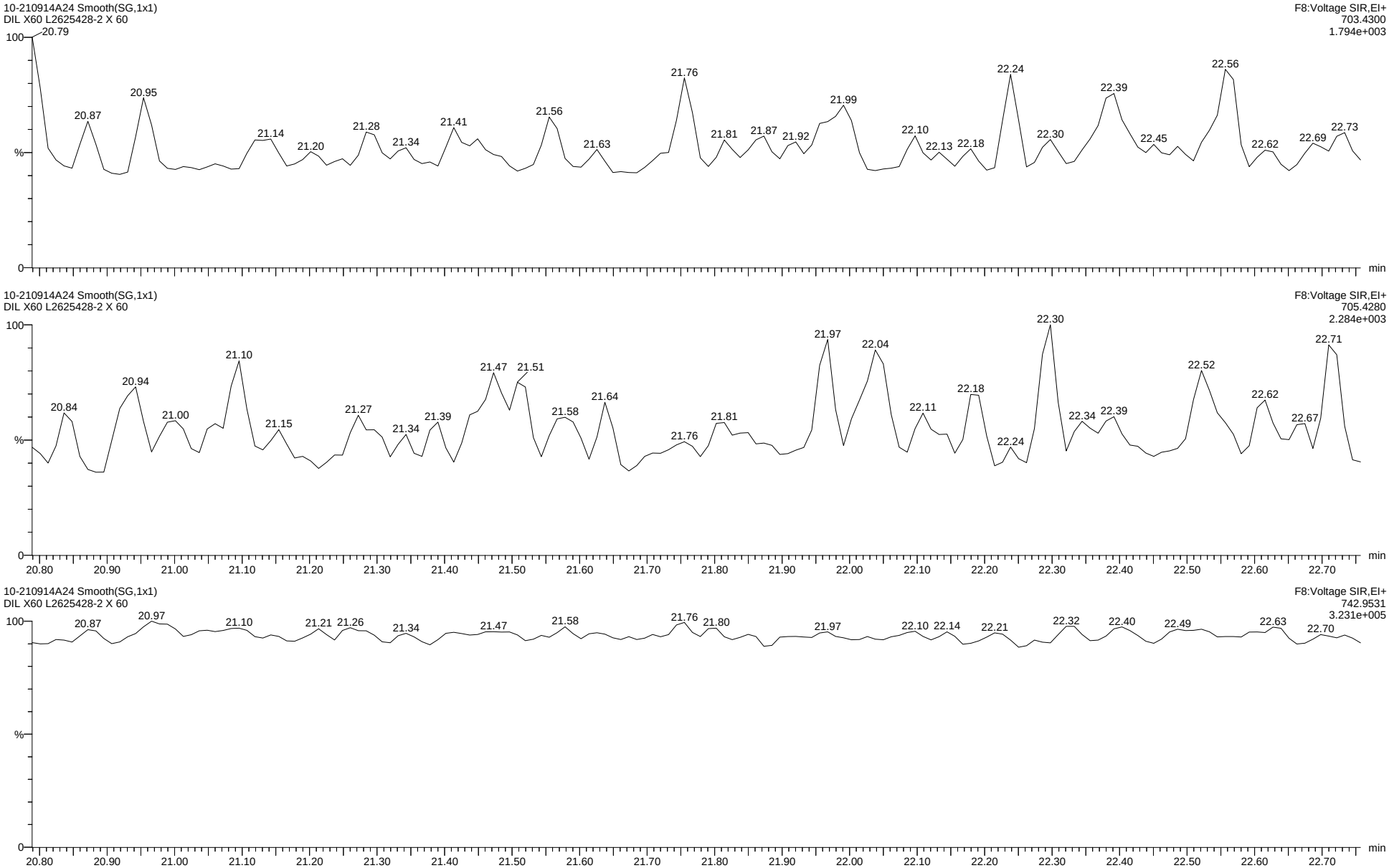

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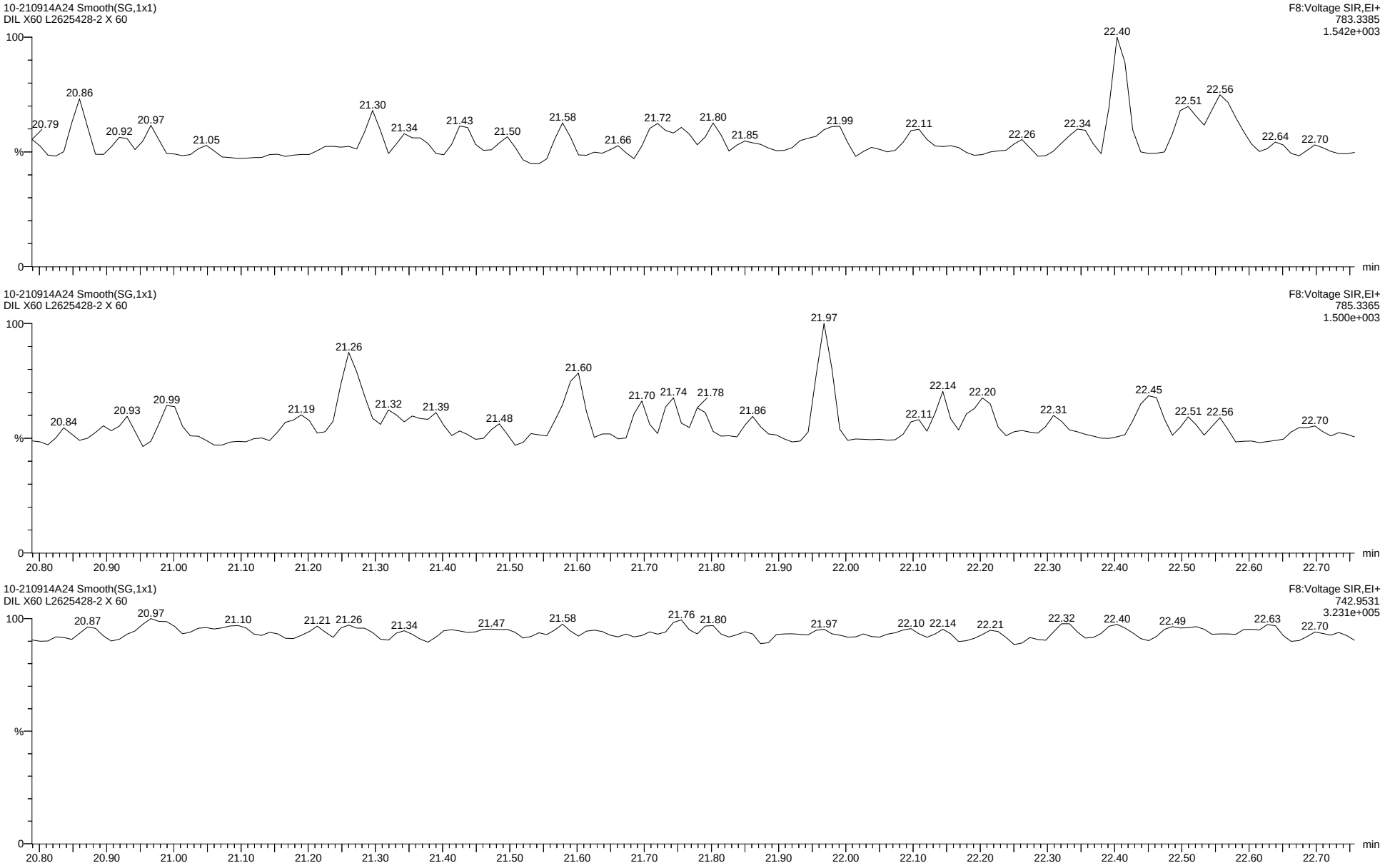

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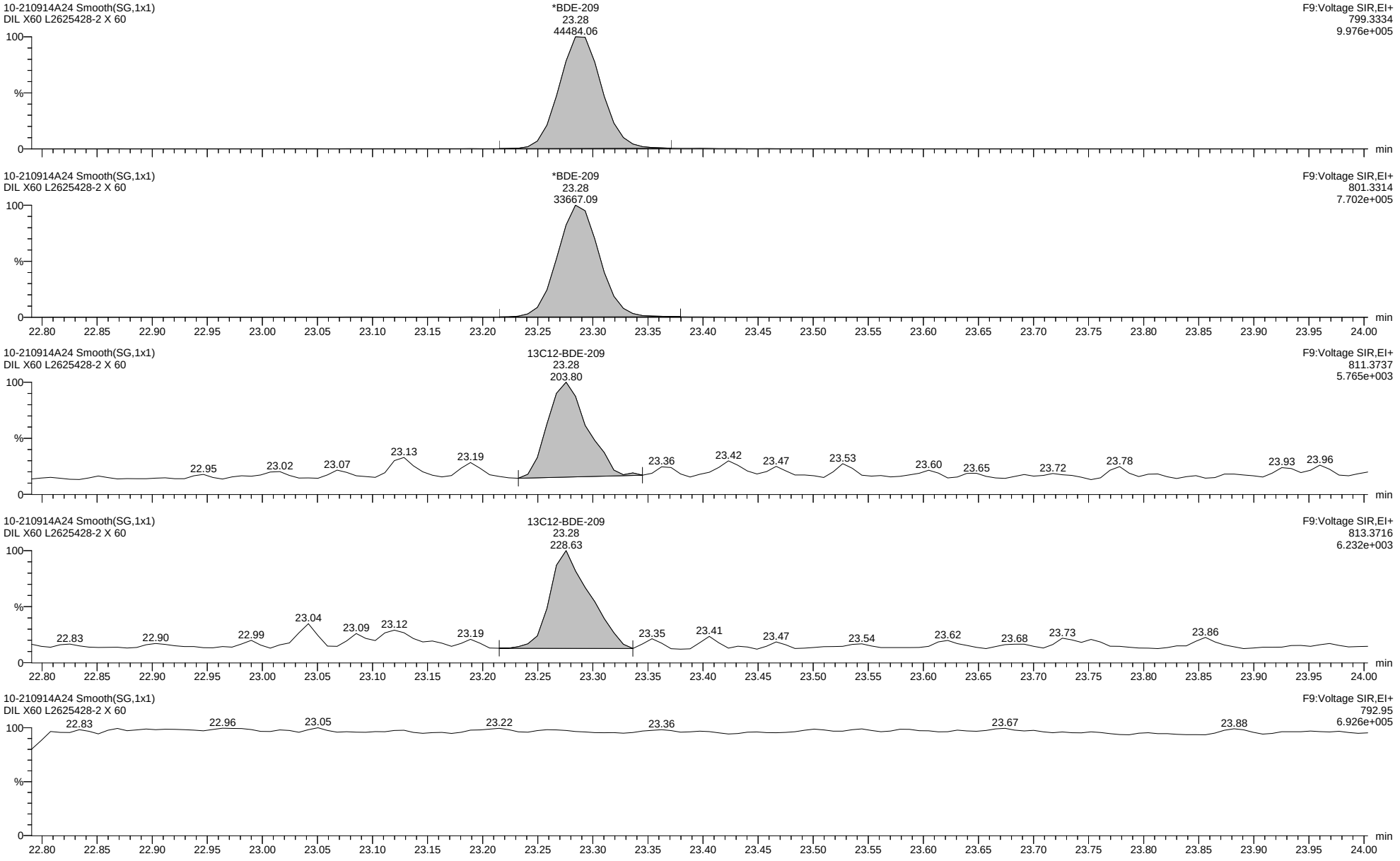

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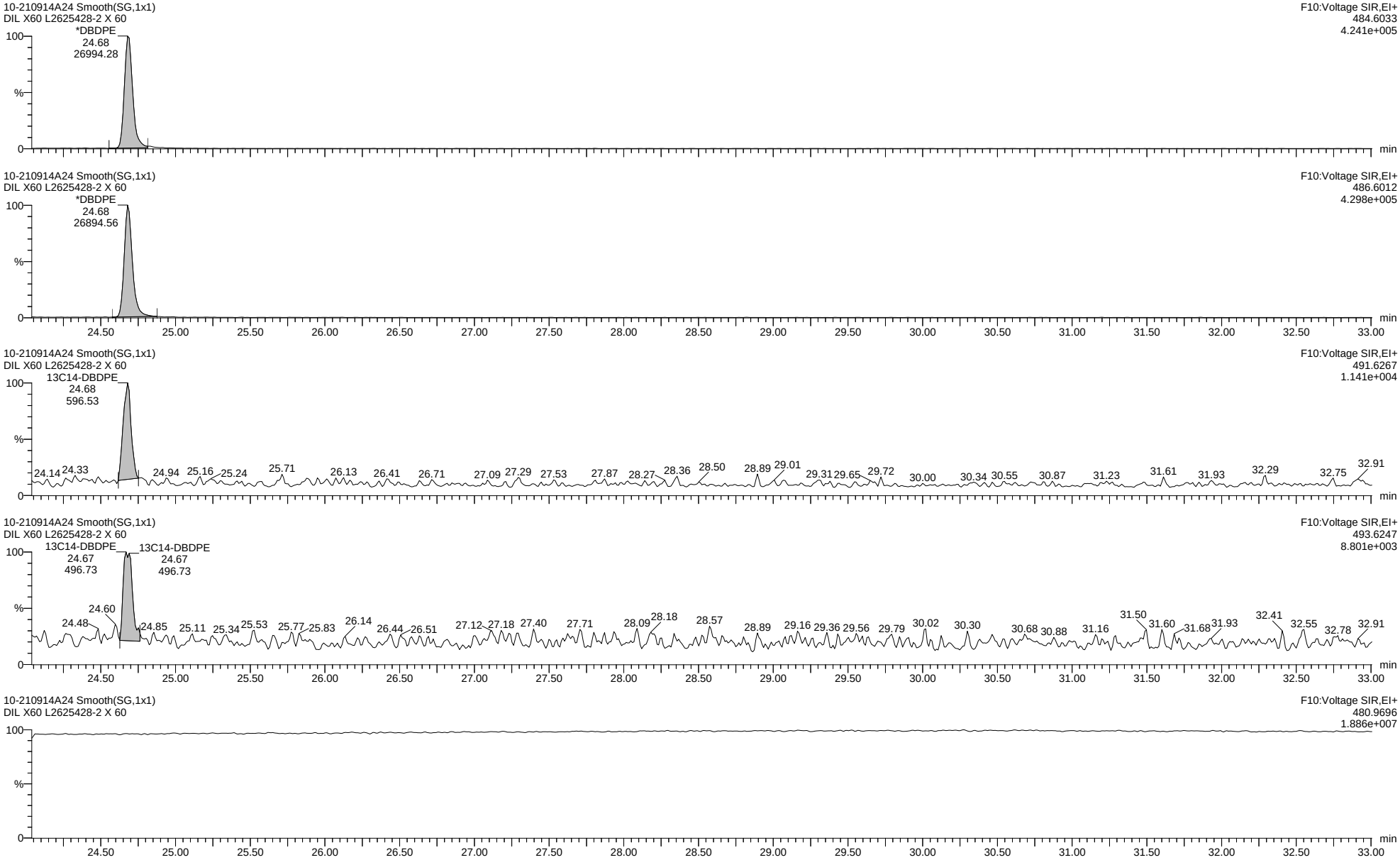

Quantify Sample Template Report **MassLynx MassLynx V4.1 SCN 901**

Dataset: I:\Organics Instrument\HIGHRES GCMS Completed Results Files\HR-10\2021\2109\10-210914A-Q3.qld

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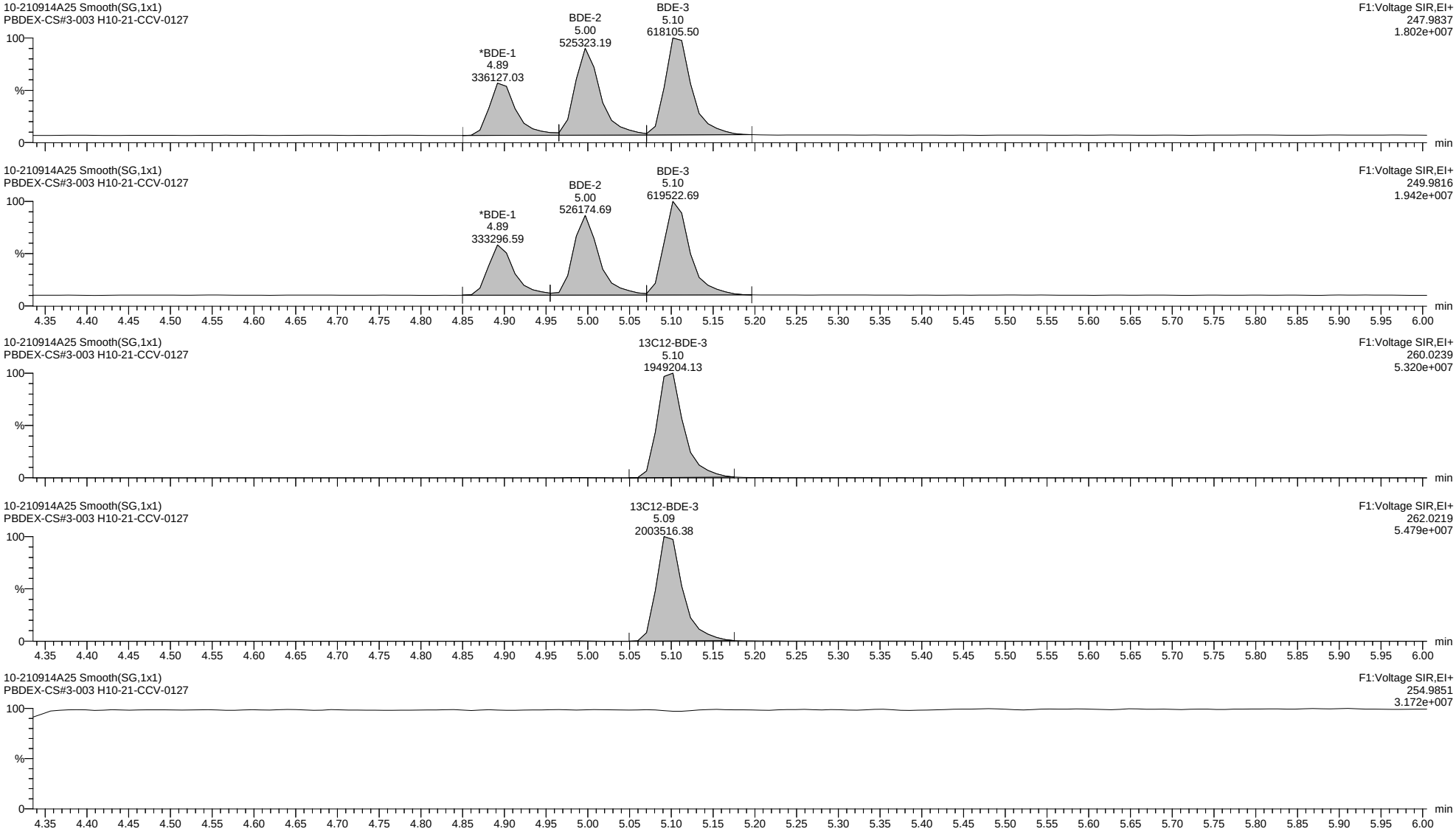

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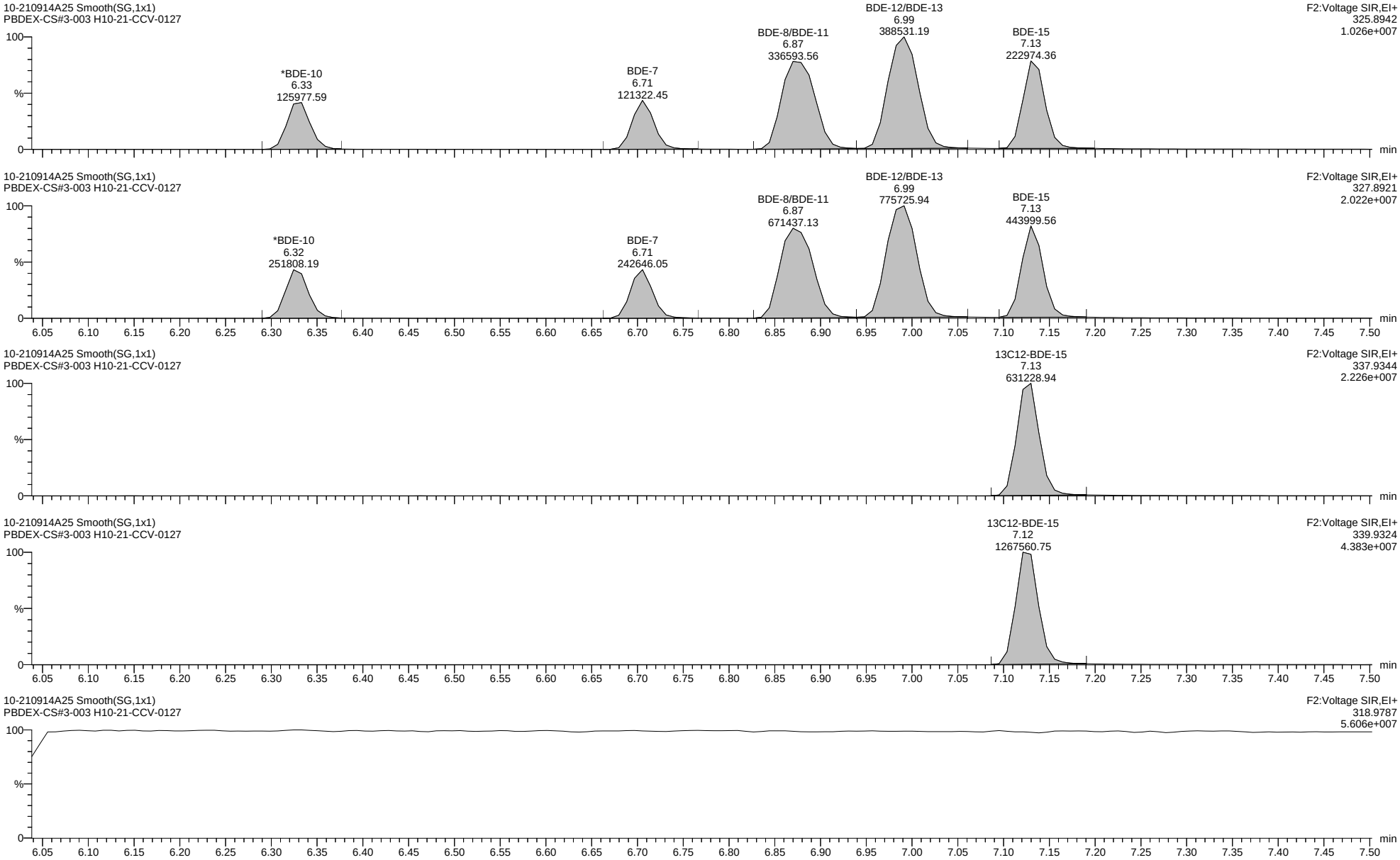

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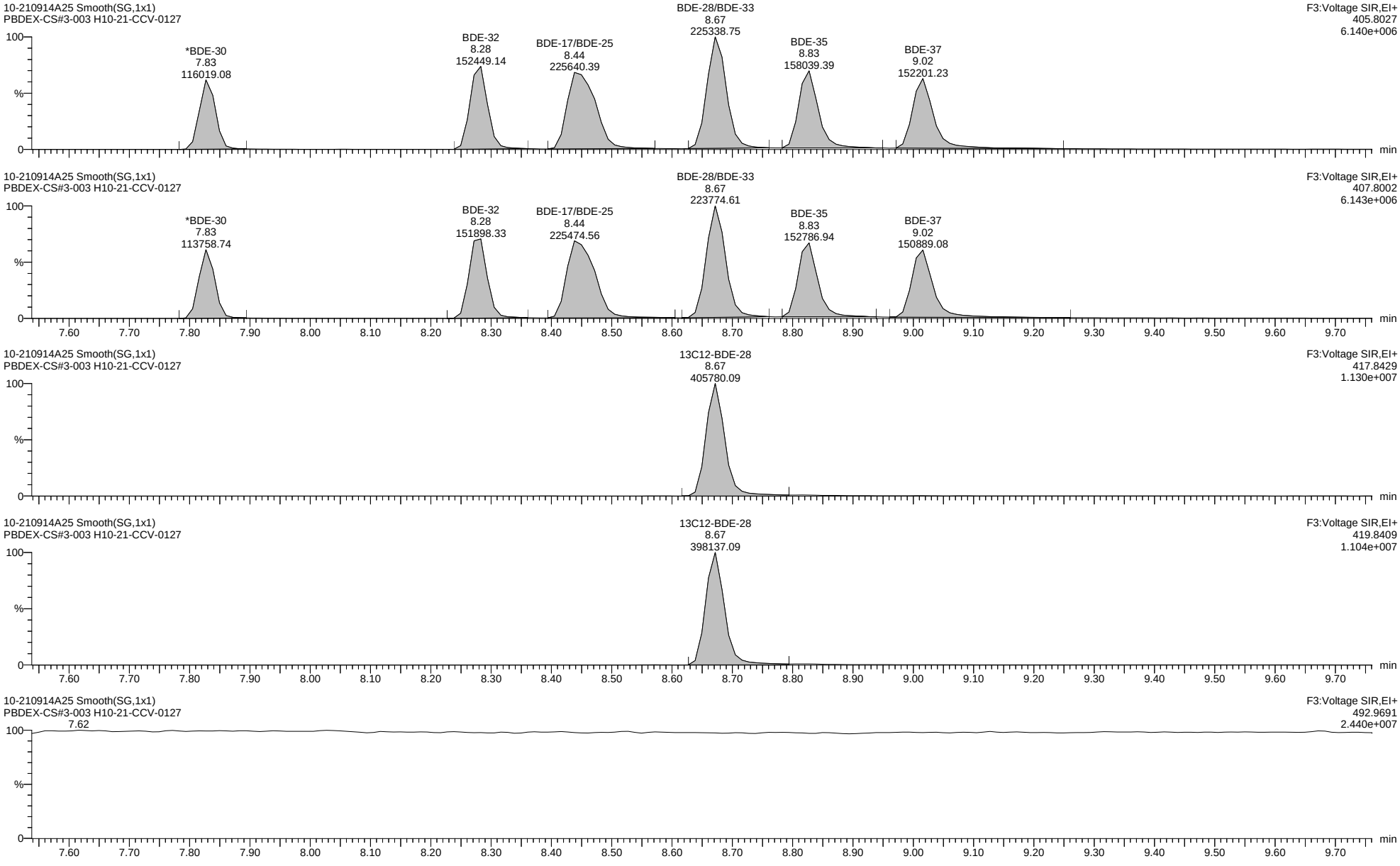

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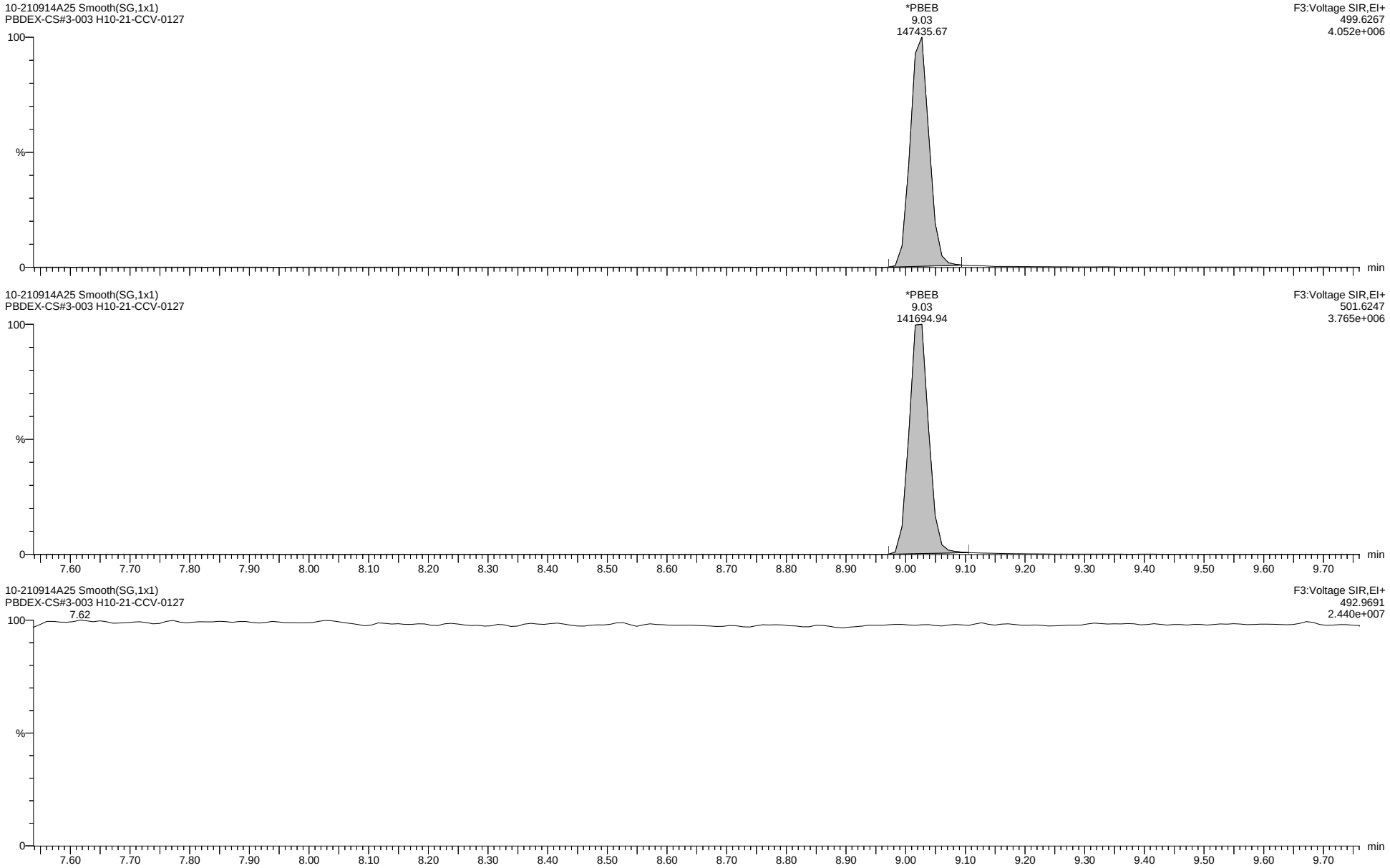

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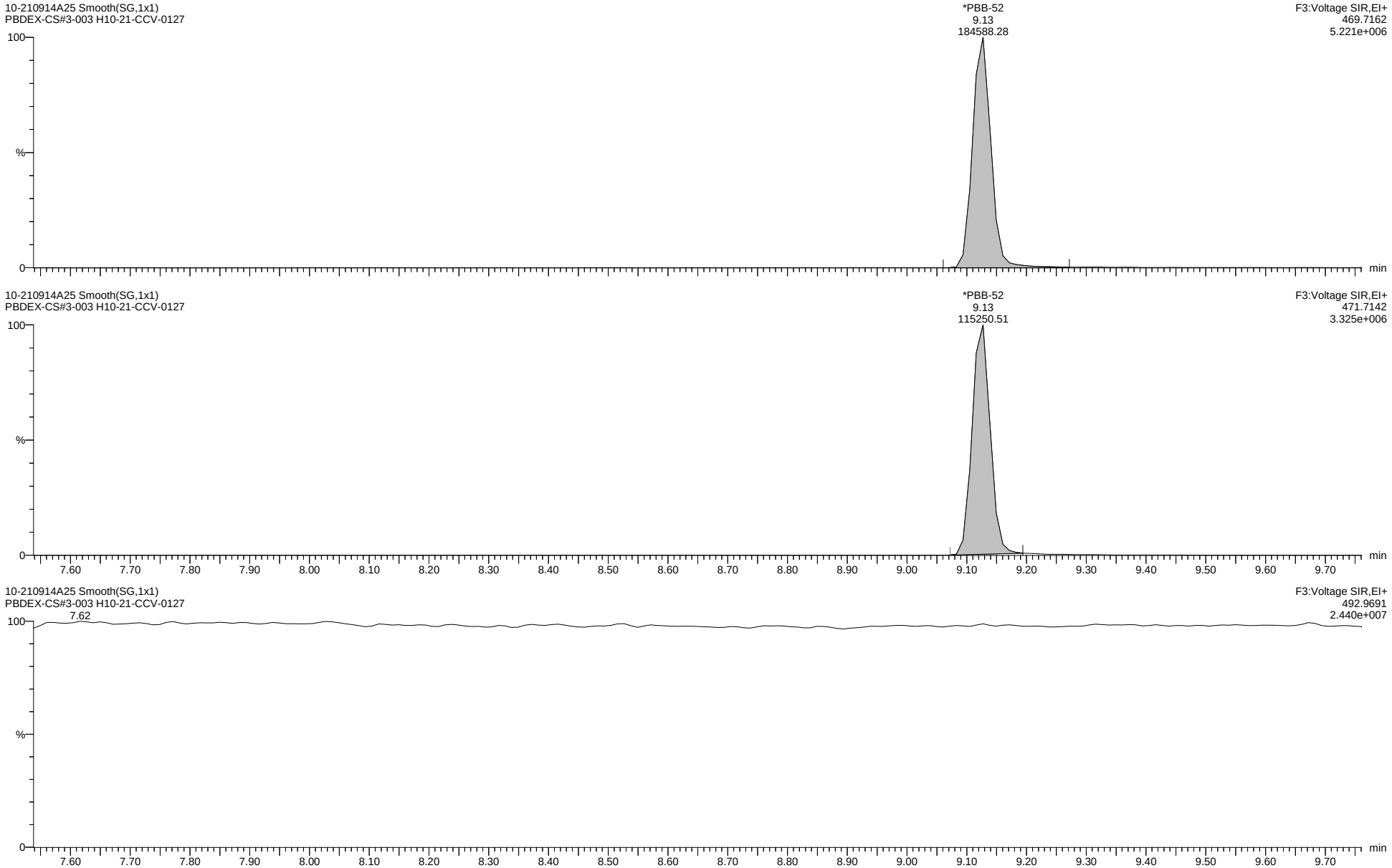

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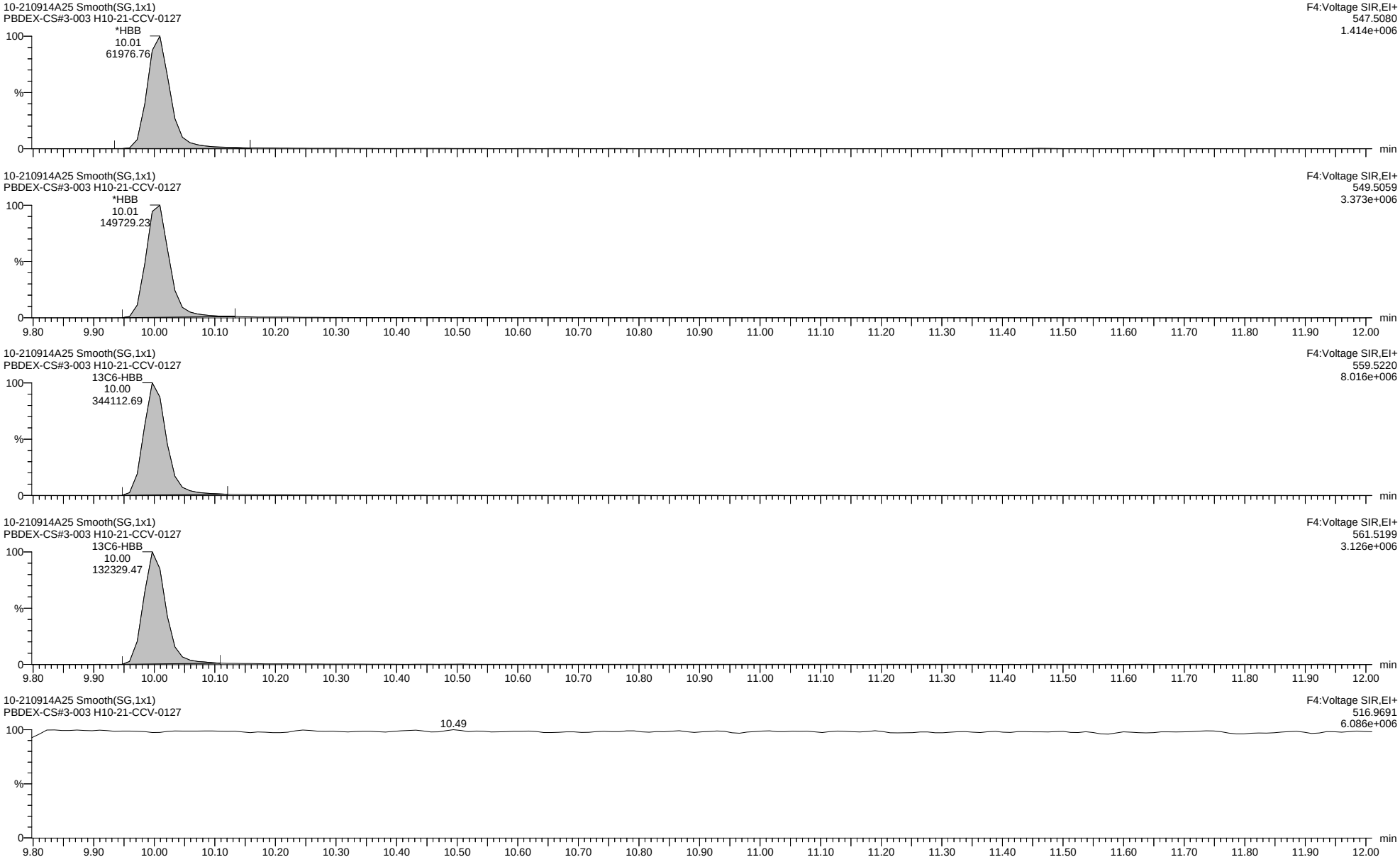

Quantify Sample Template Report **MassLynx MassLynx V4.1 SCN 901**

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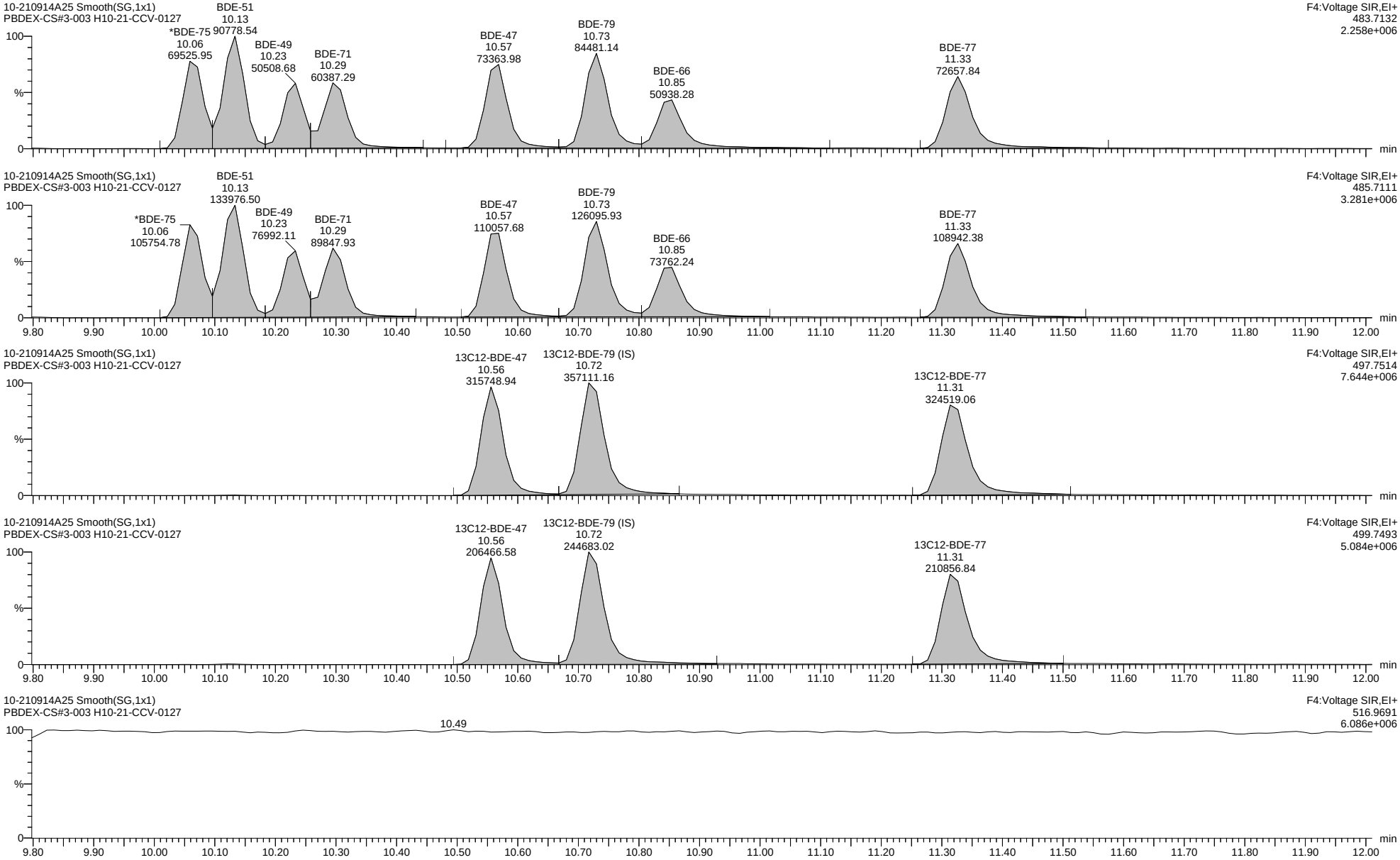

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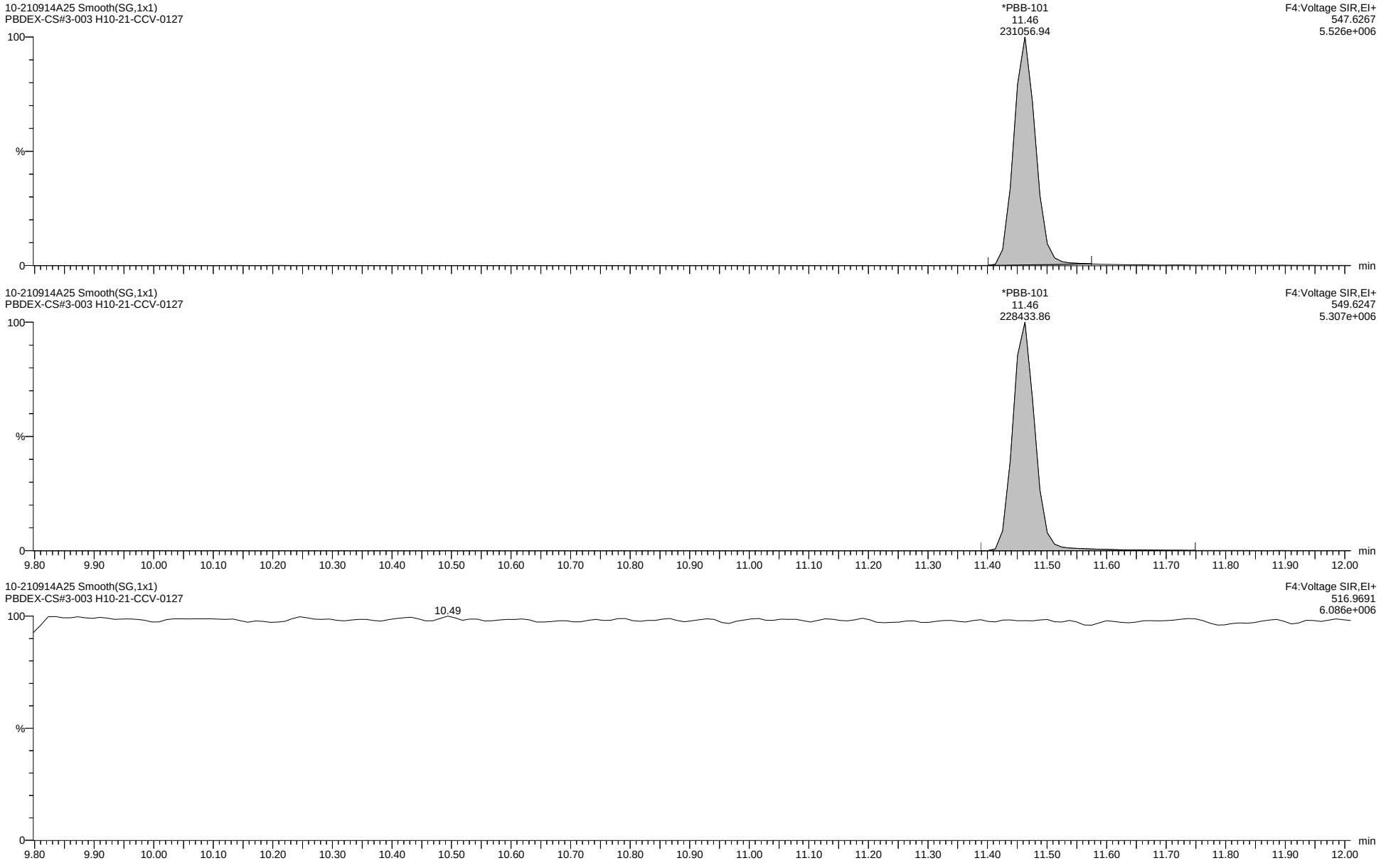

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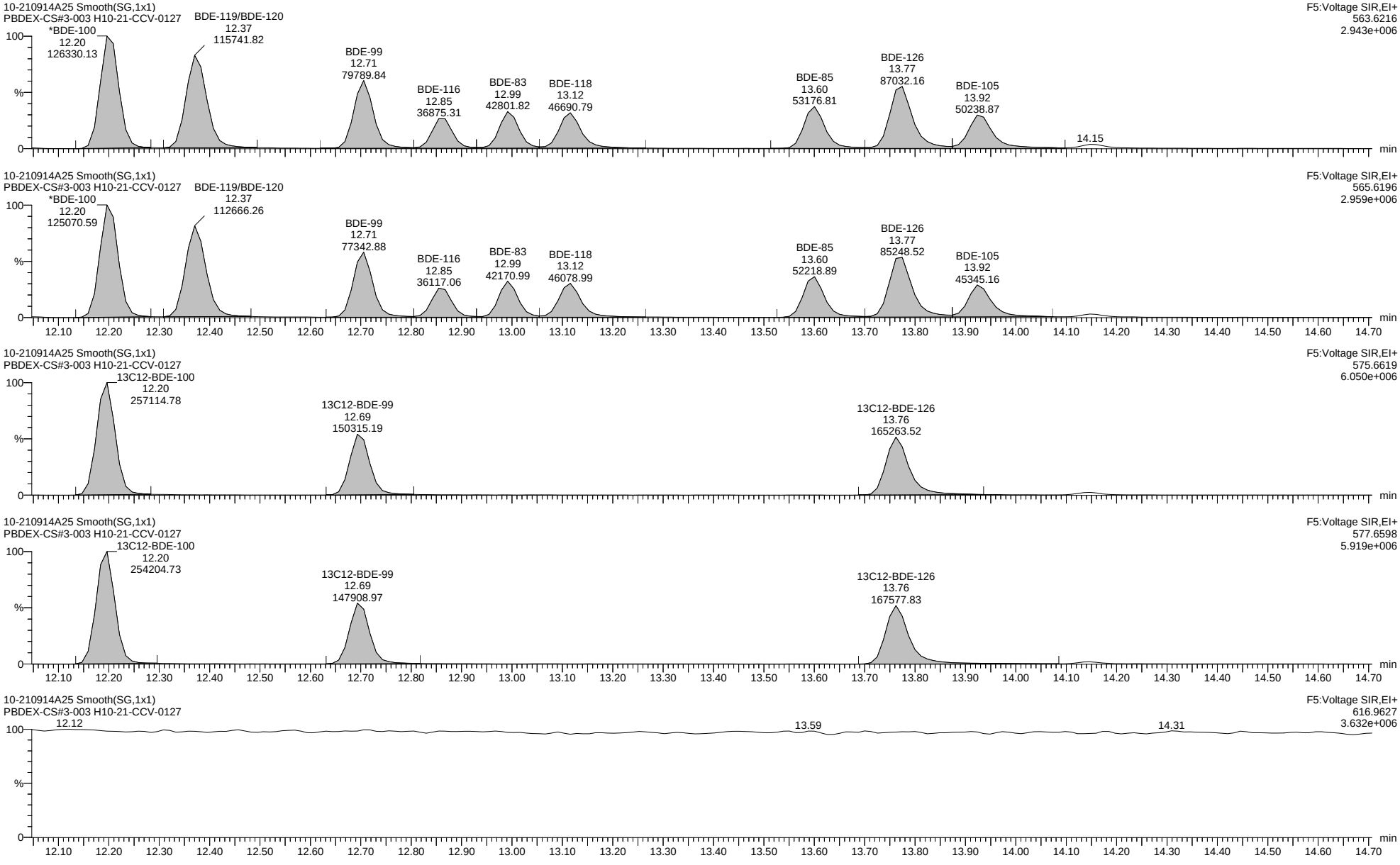

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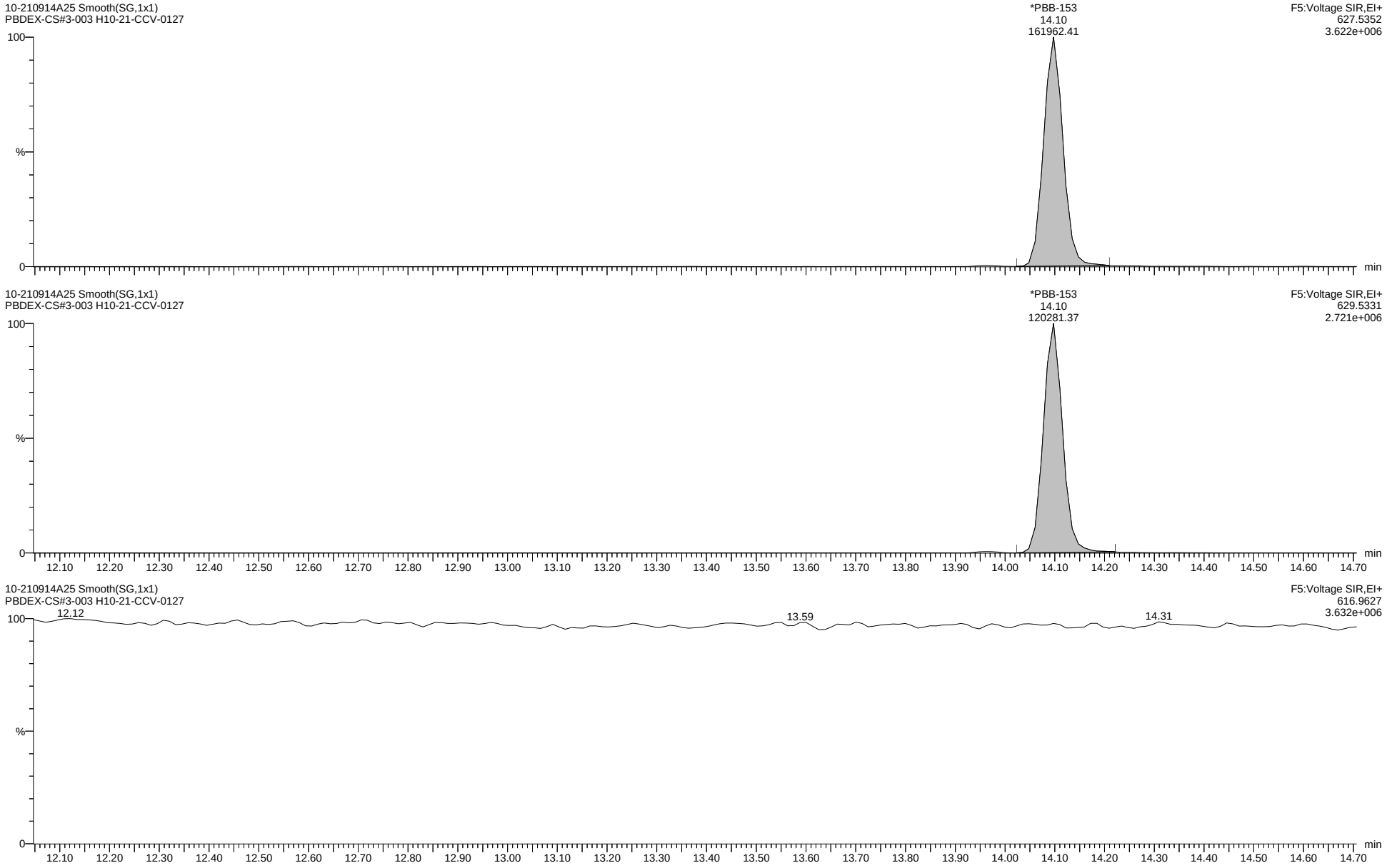

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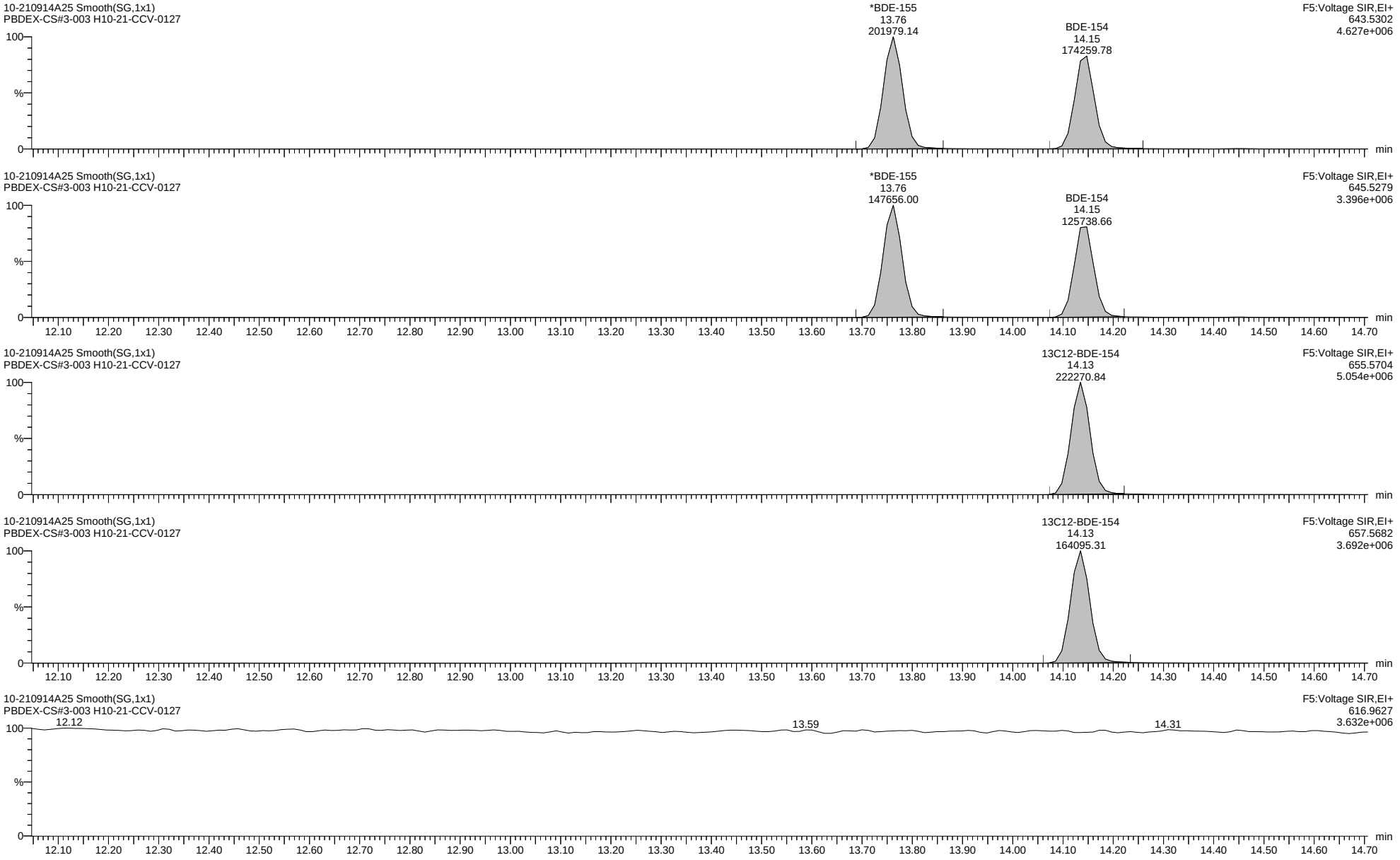

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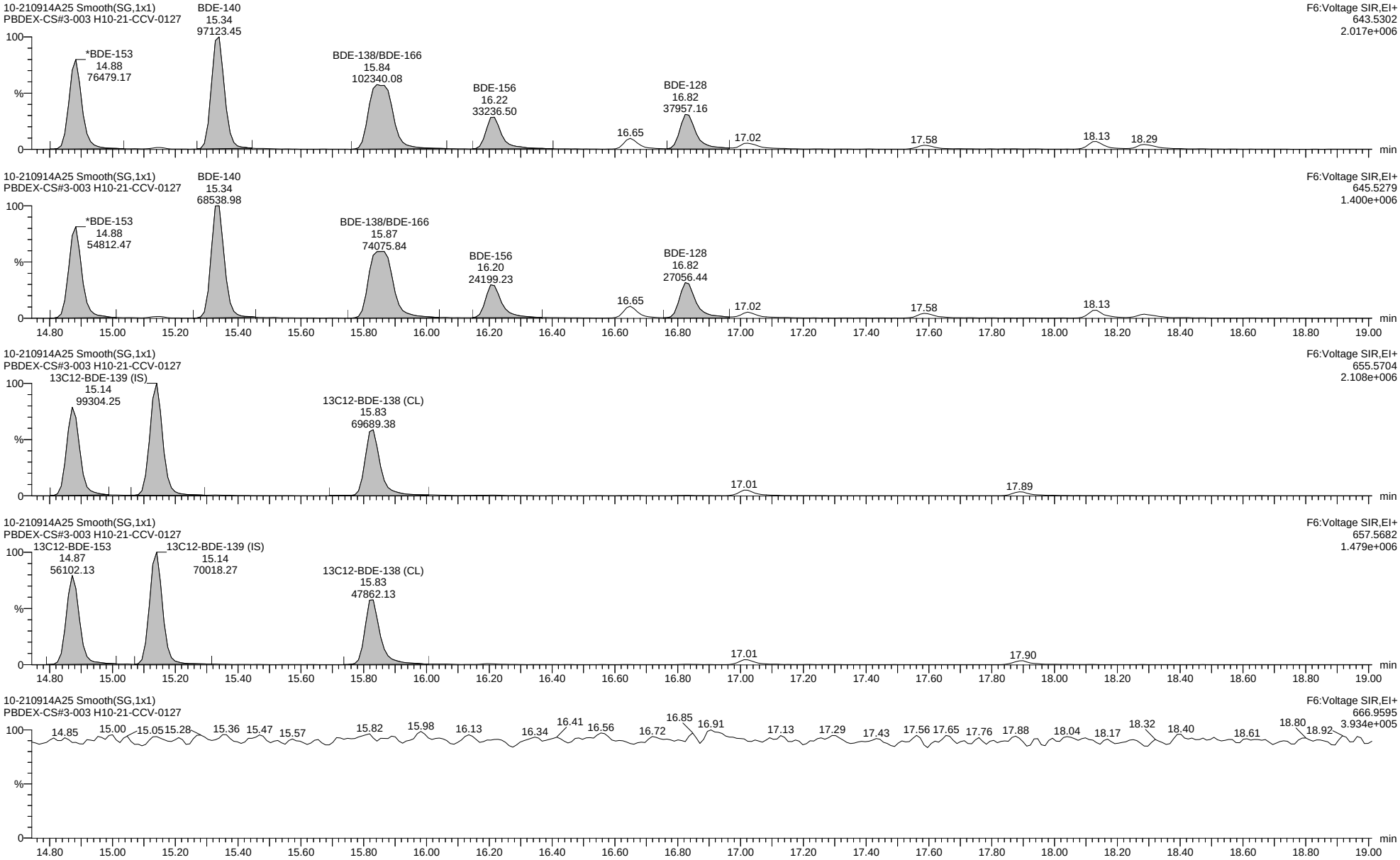

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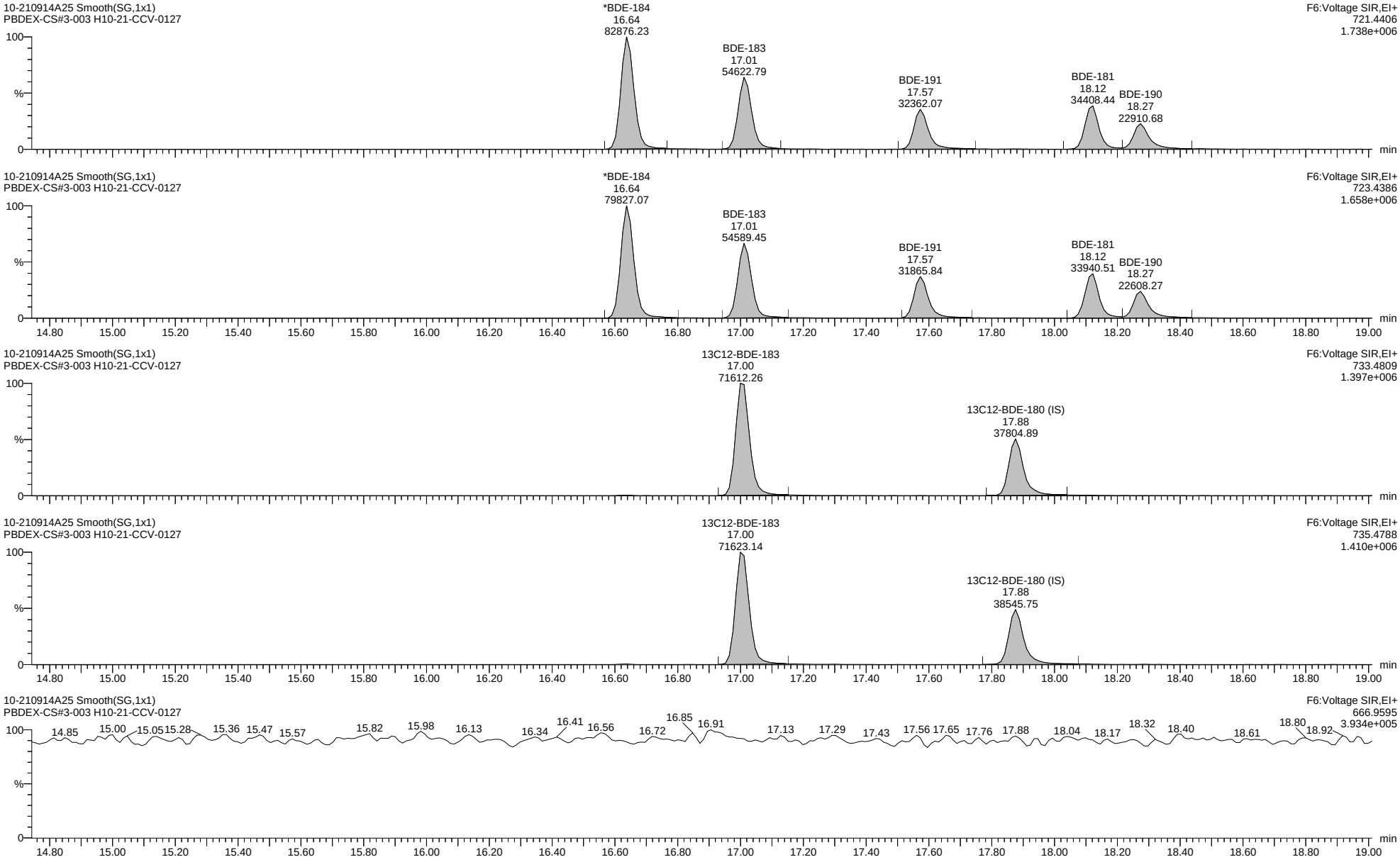

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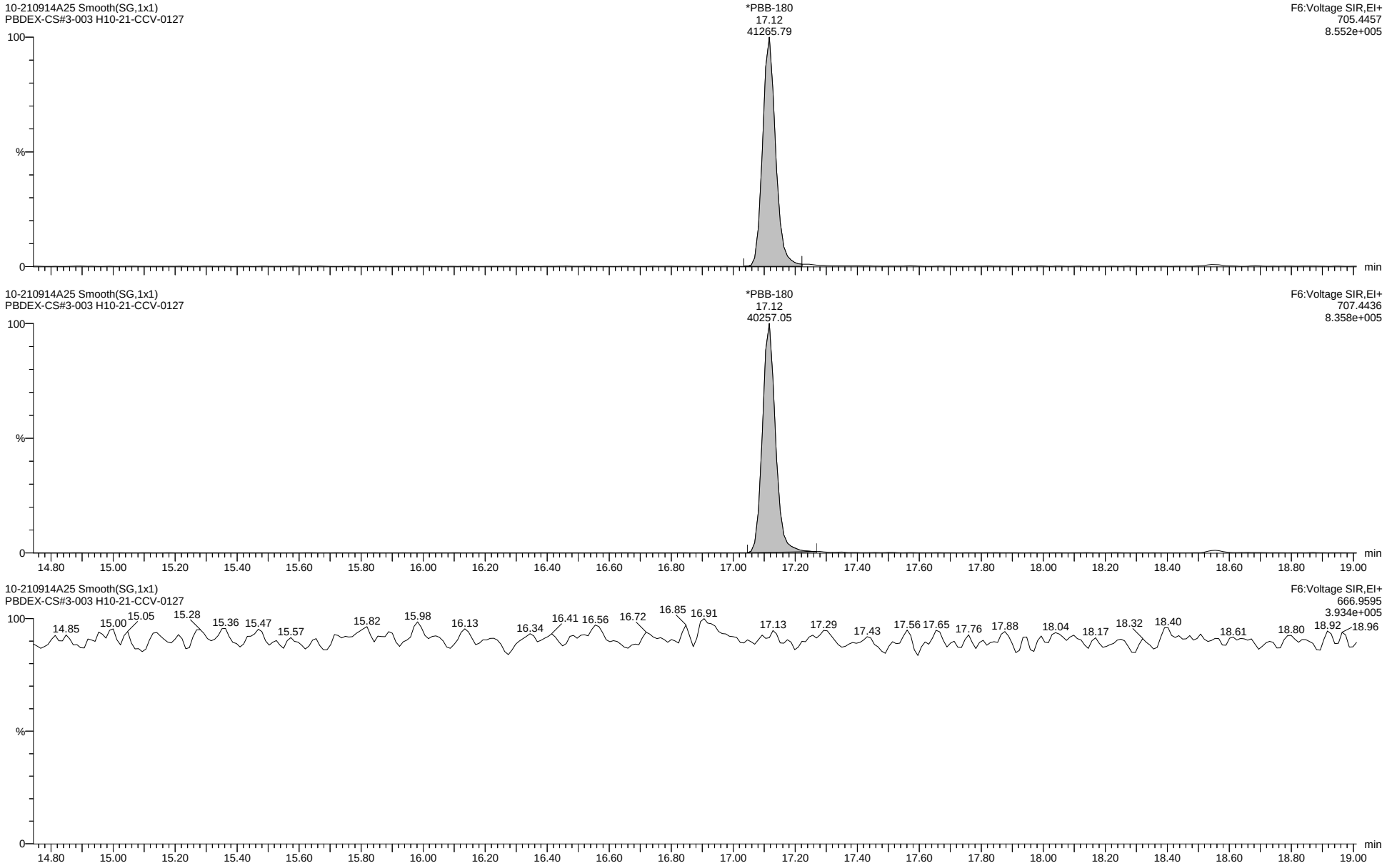

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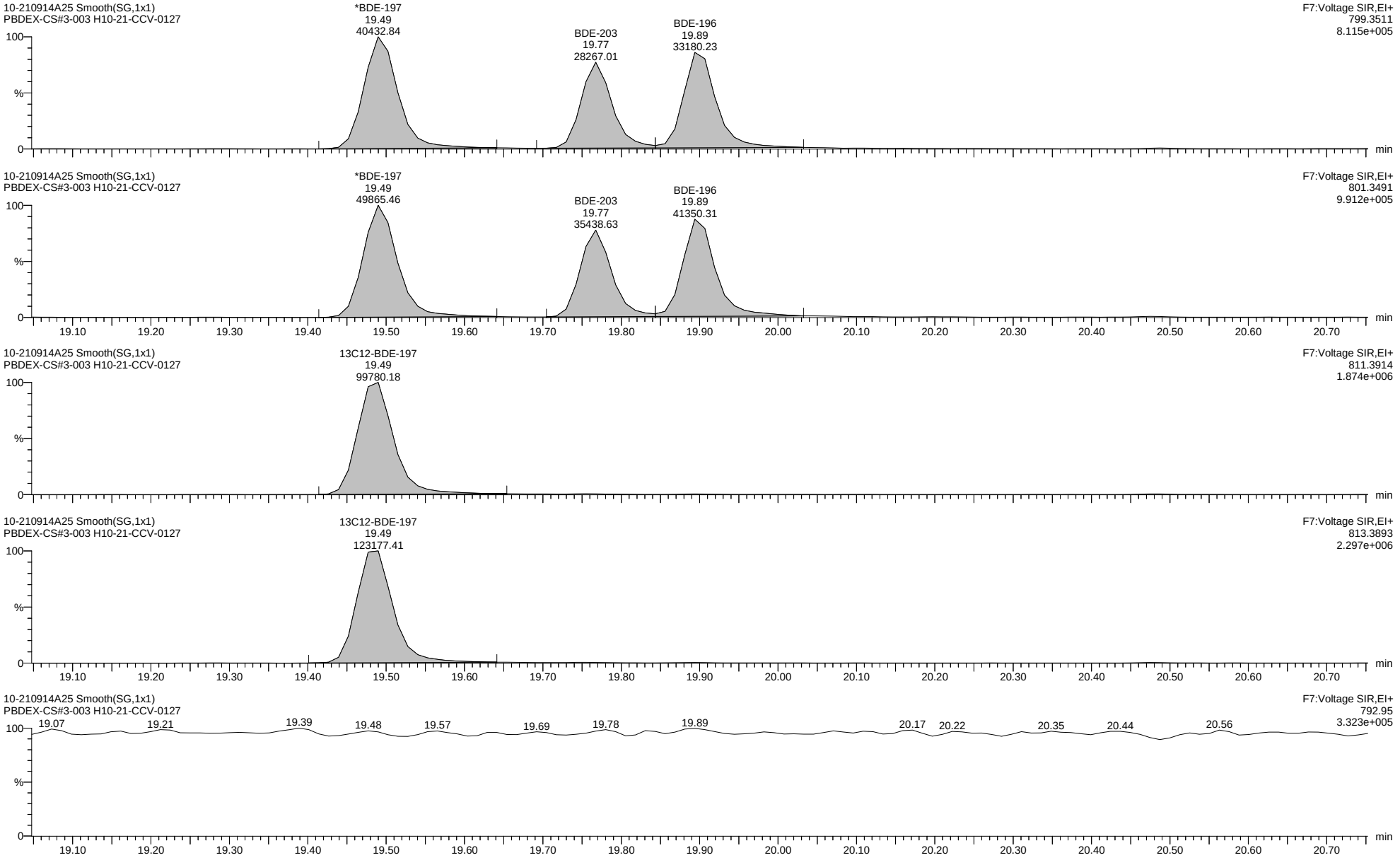

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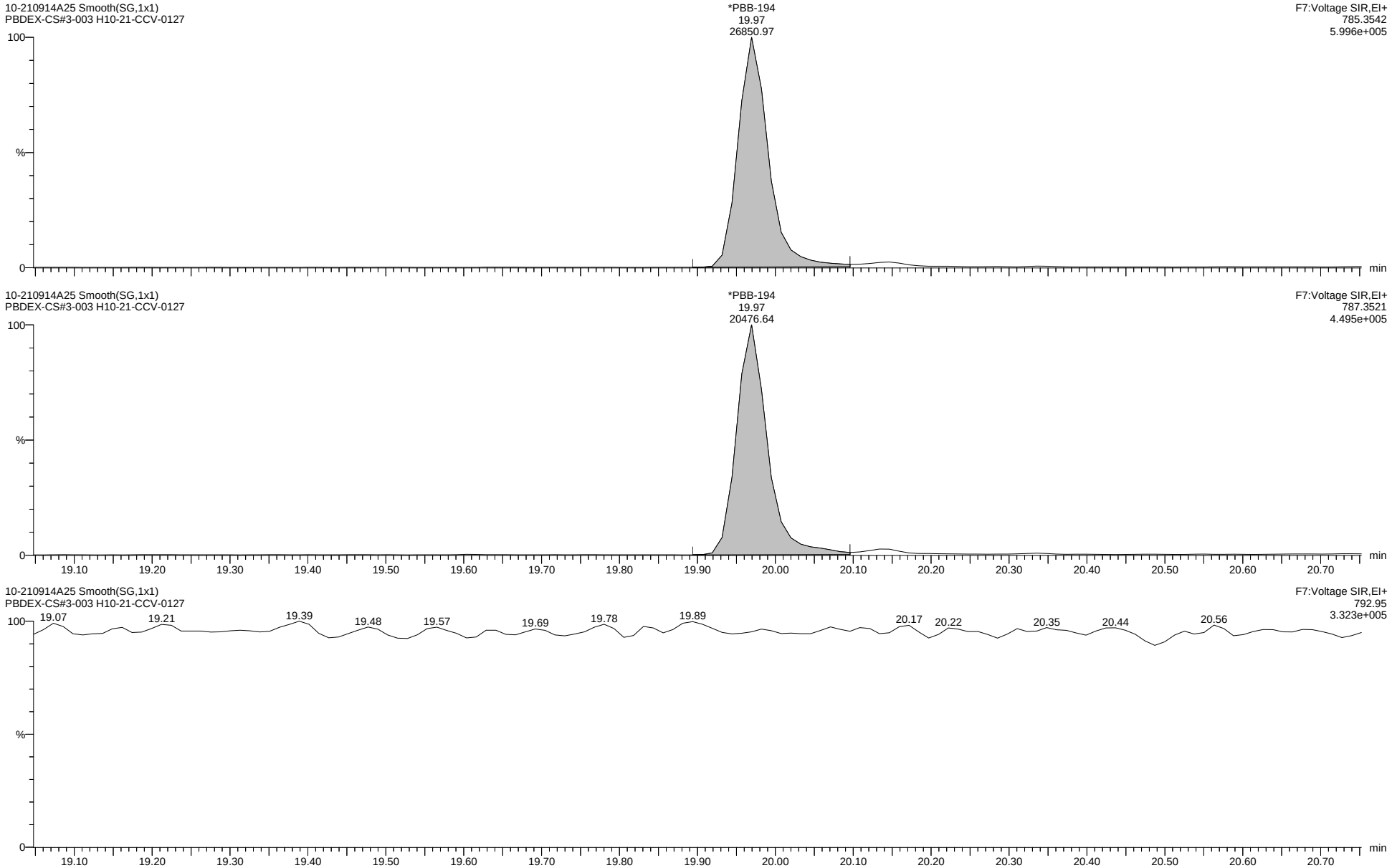

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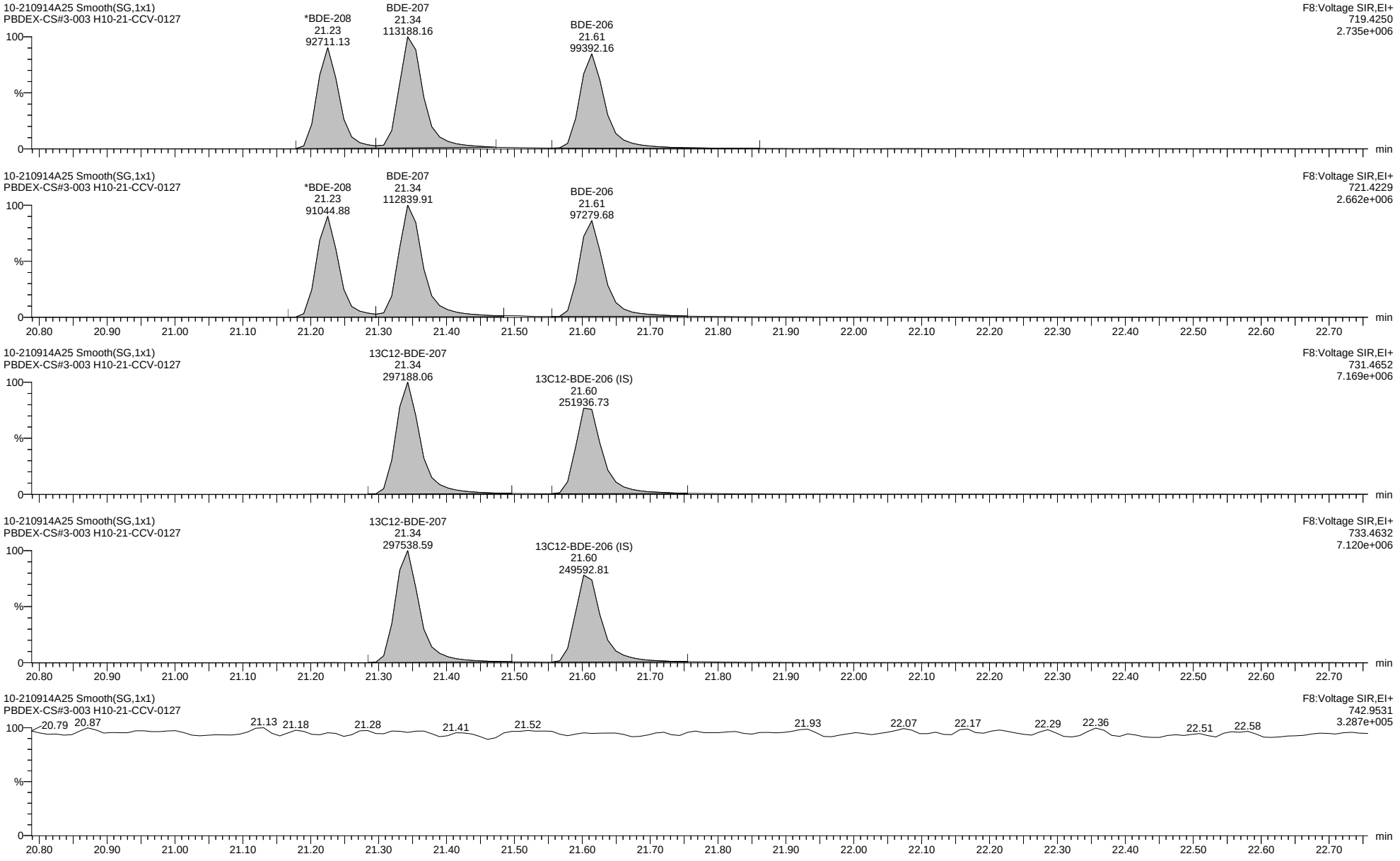

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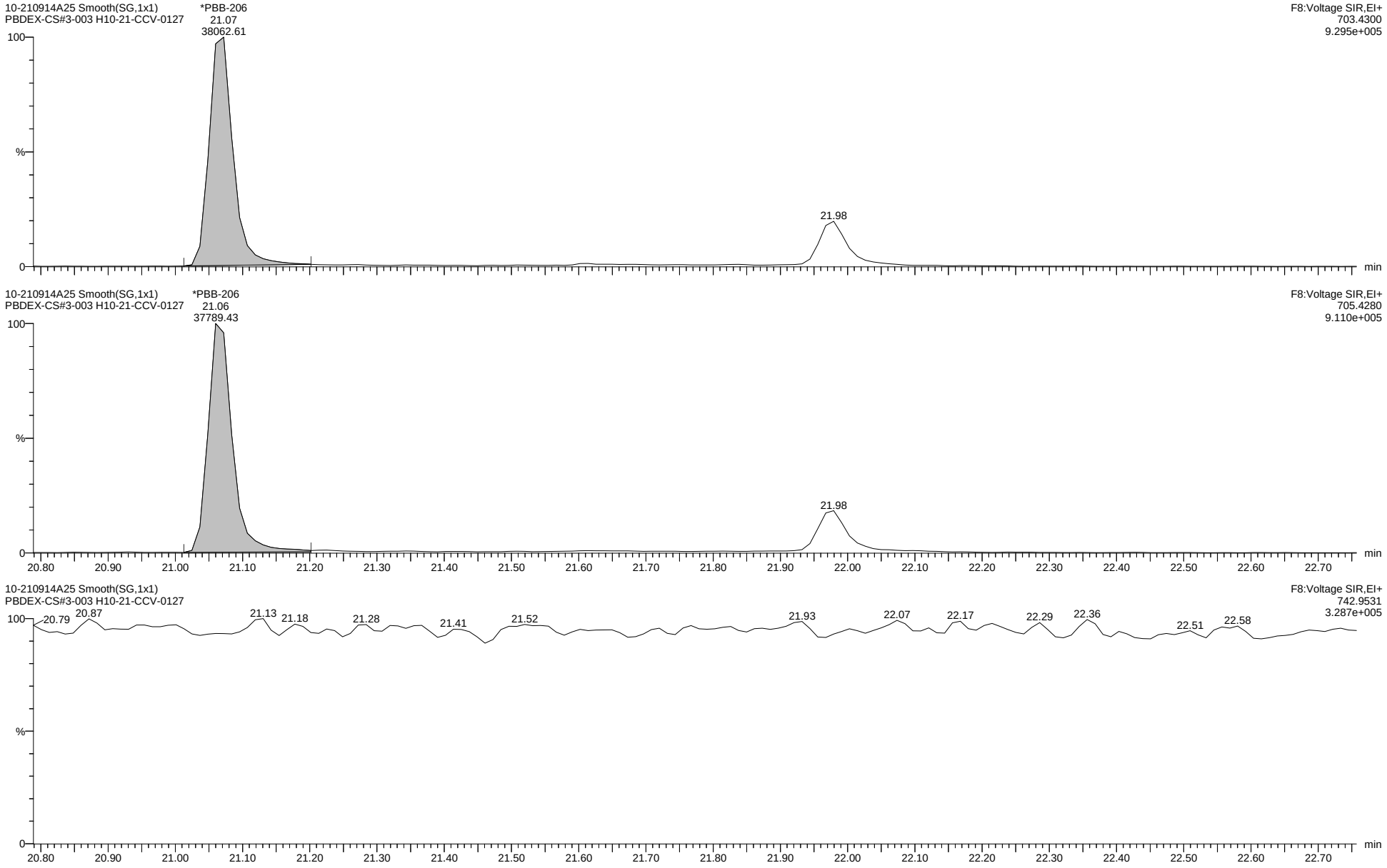

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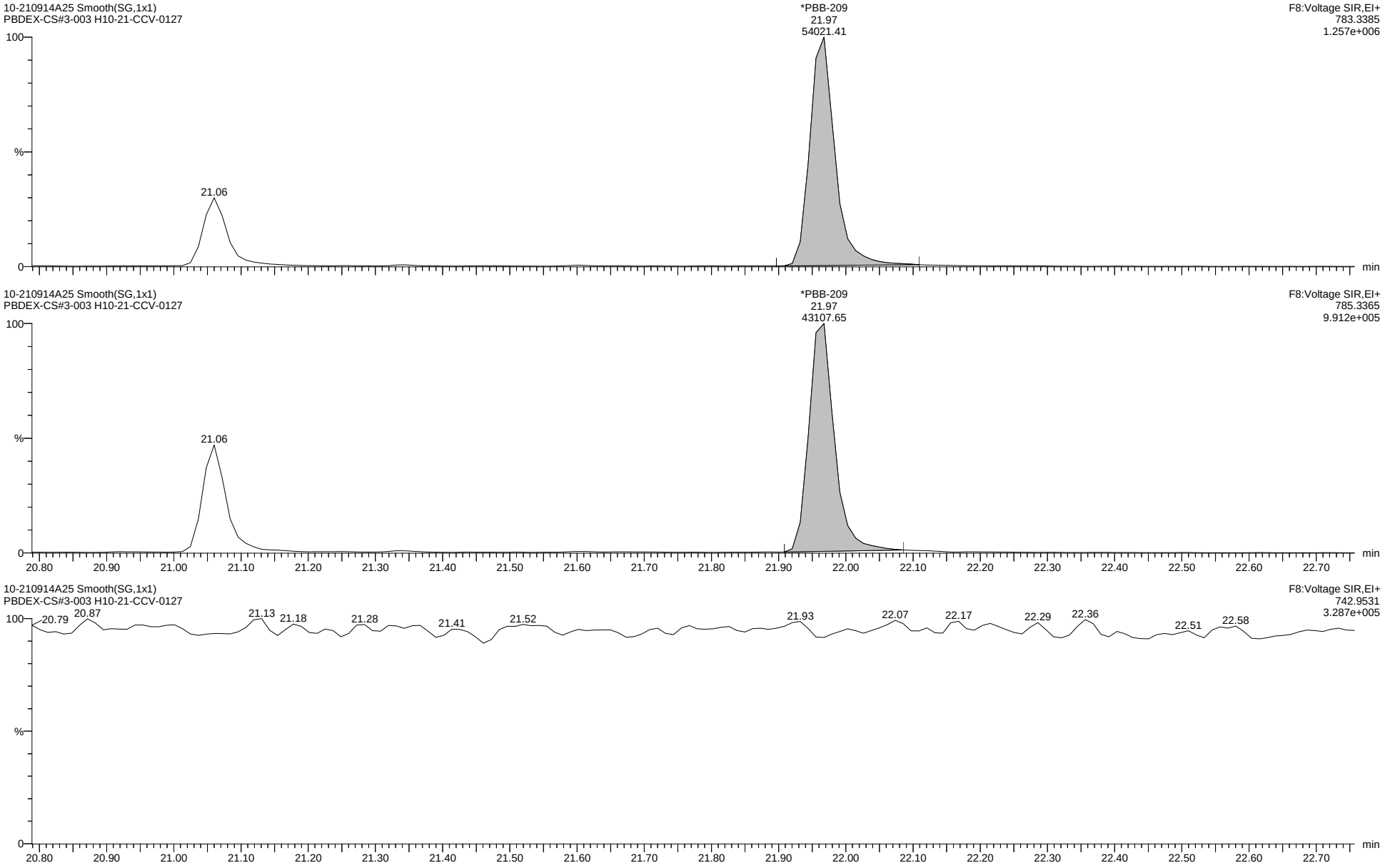

Quantify Sample Template Report **MassLynx MassLynx V4.1 SCN 901**

Dataset: I:\Organics Instrument\HIGHRES GCMS Completed Results Files\HR-10\2021\2109\10-210914A-Q3.qld

Last Altered: Thursday, September 16, 2021 15:21:47 Eastern Daylight Time
Printed: Friday, September 17, 2021 11:00:37 Eastern Daylight Time

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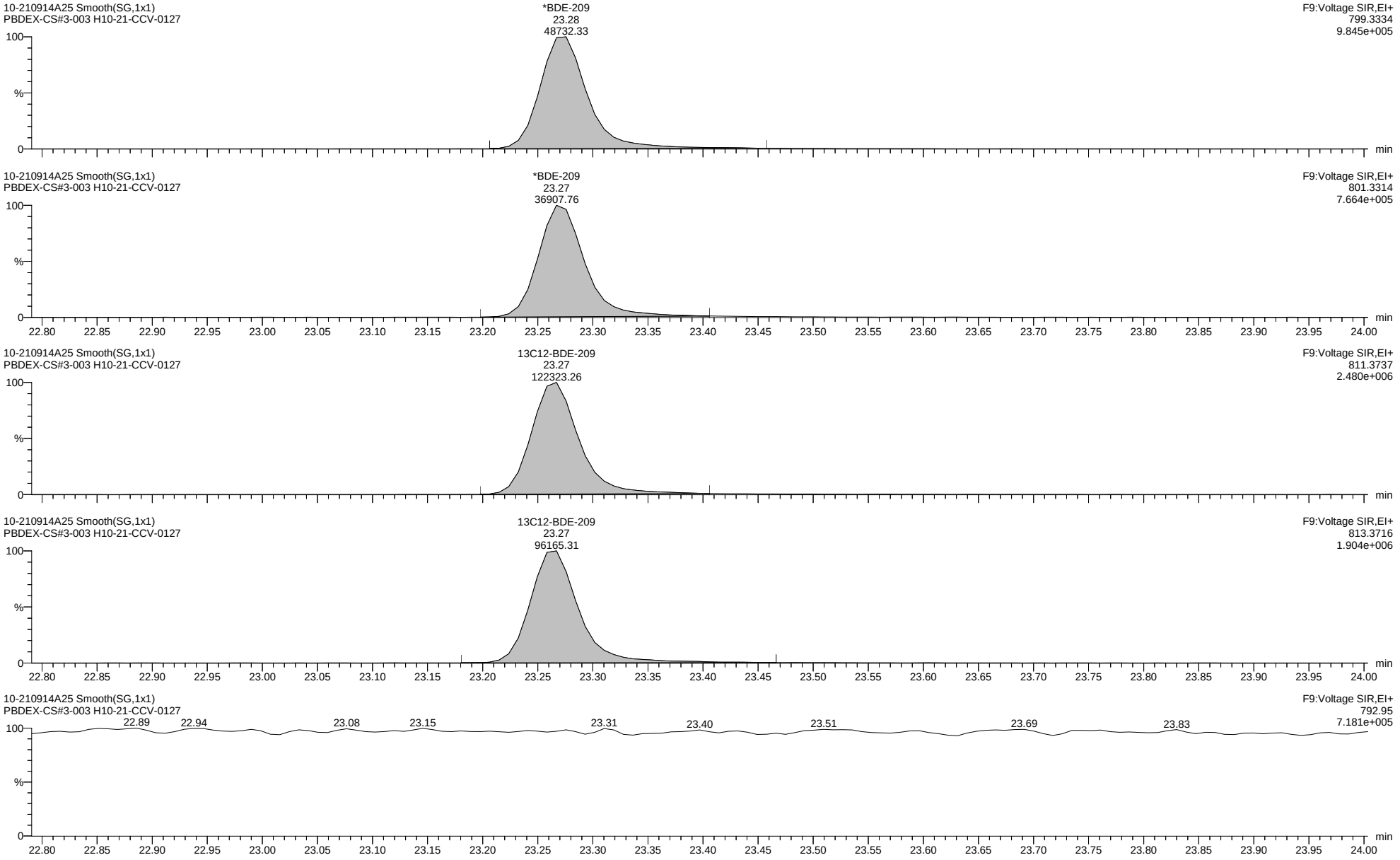

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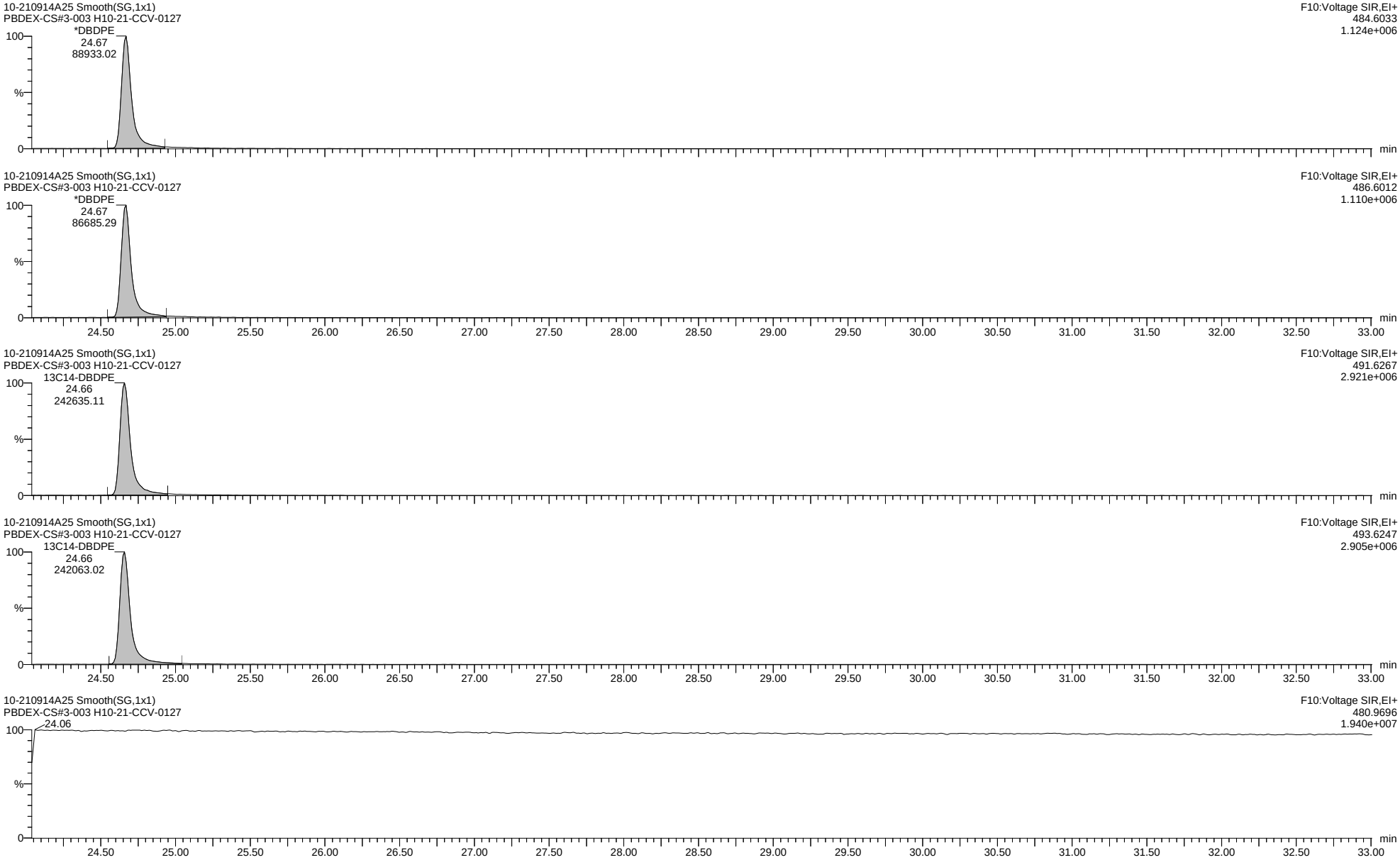

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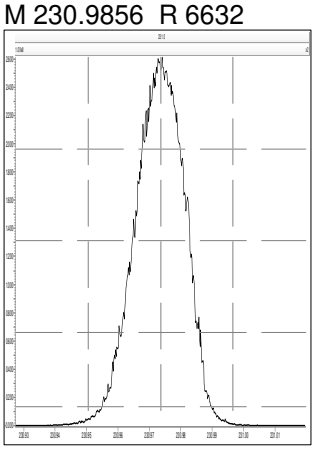

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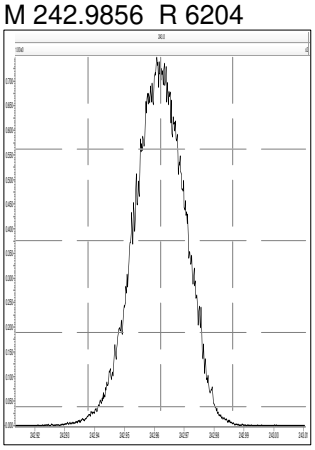
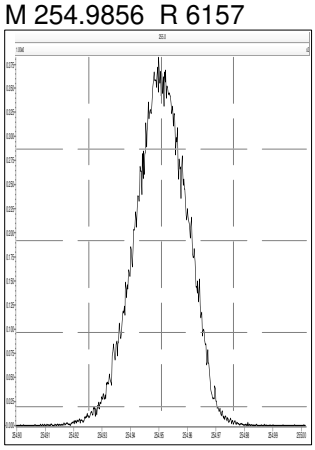


M 254.9856 R 6157



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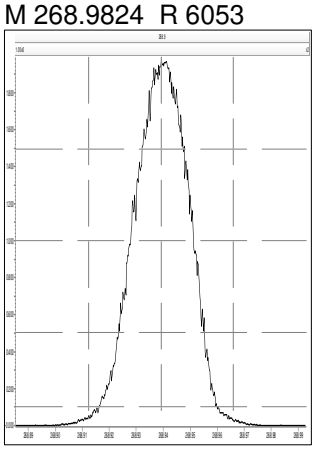

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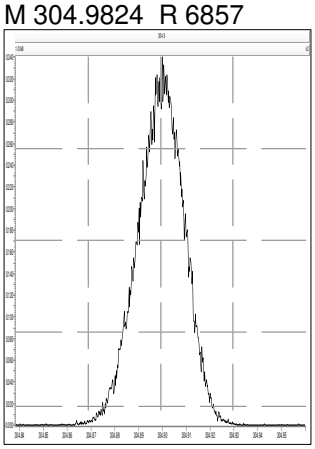

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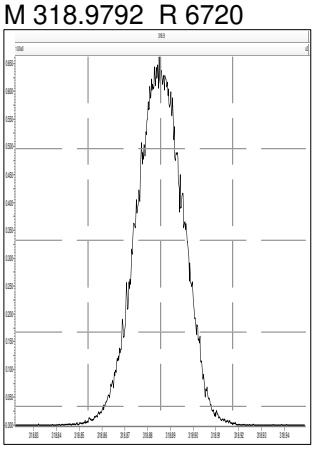

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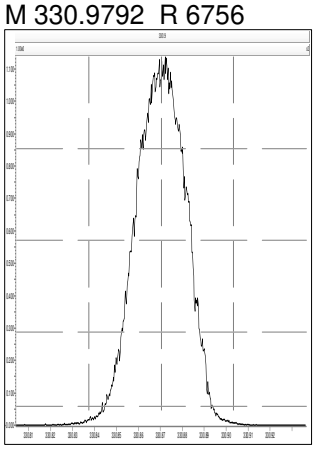

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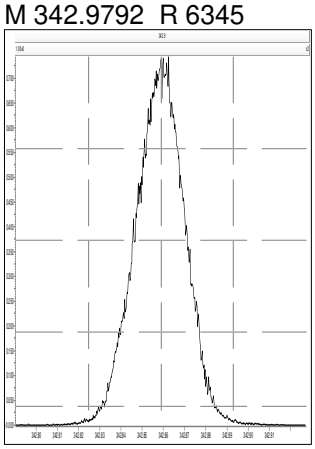

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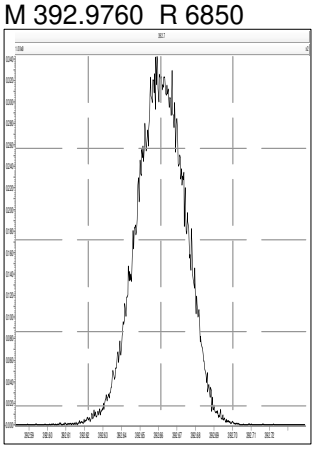

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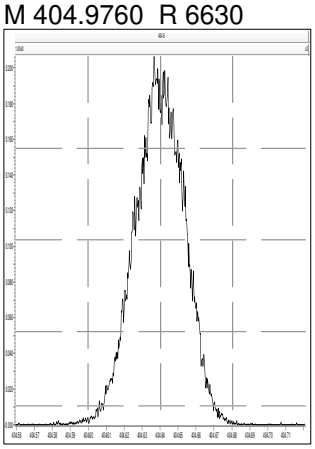

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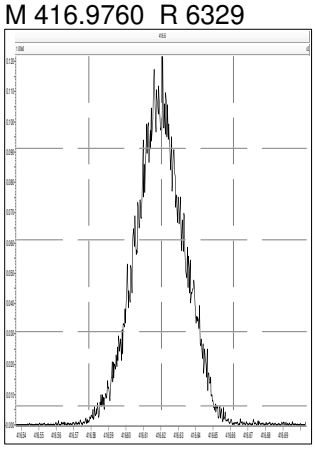

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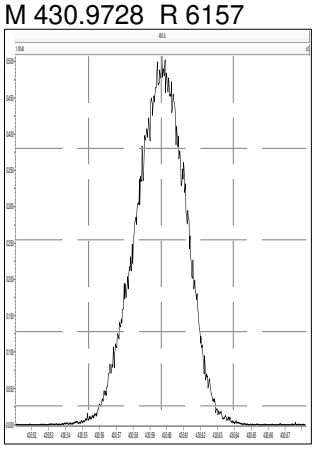

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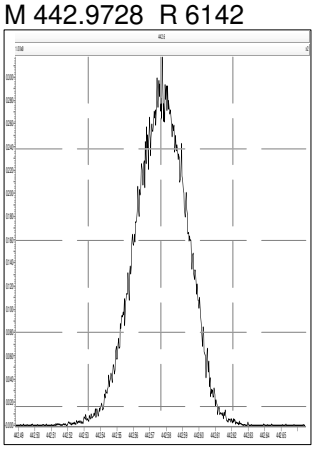

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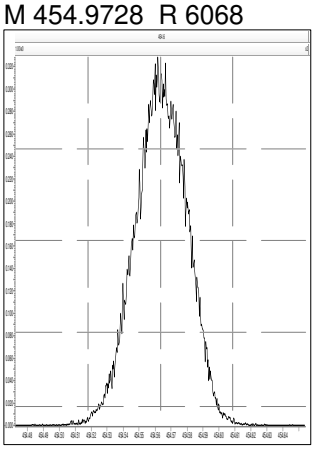

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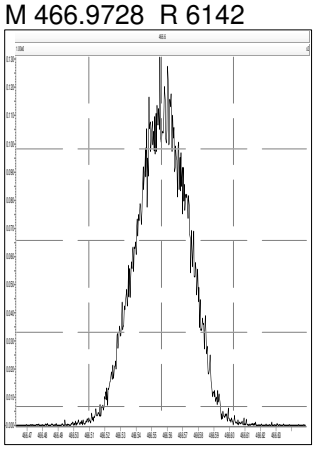

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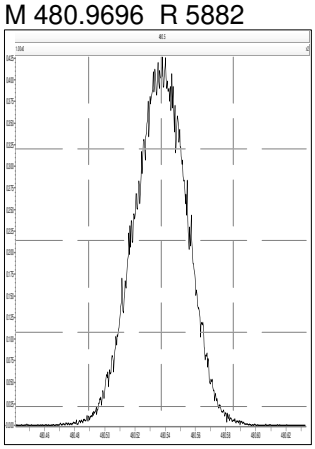

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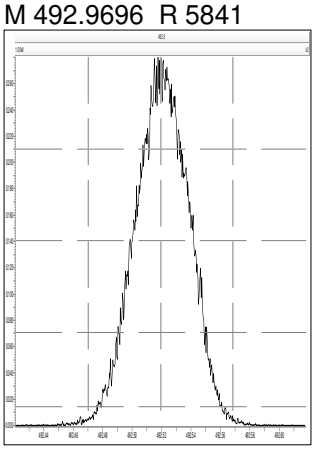

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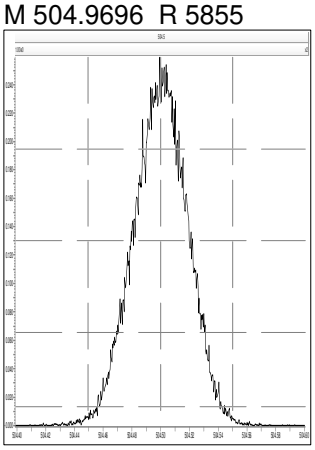

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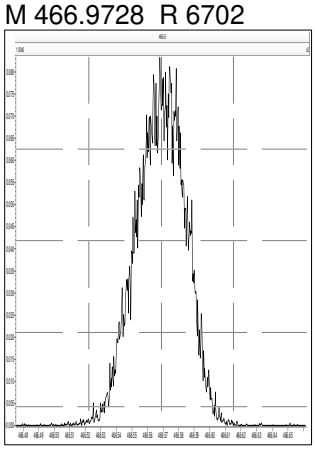

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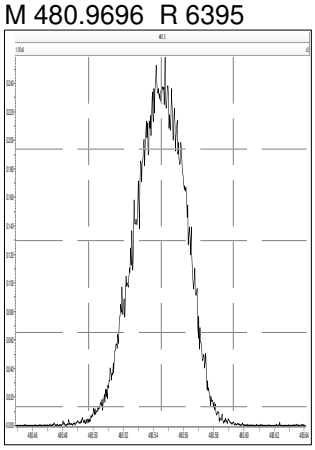

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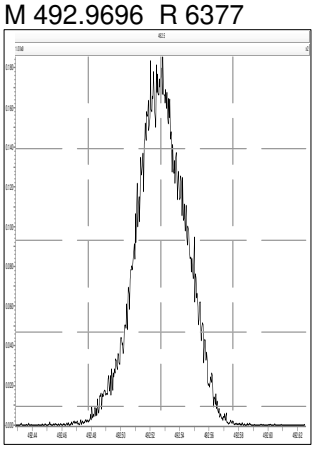

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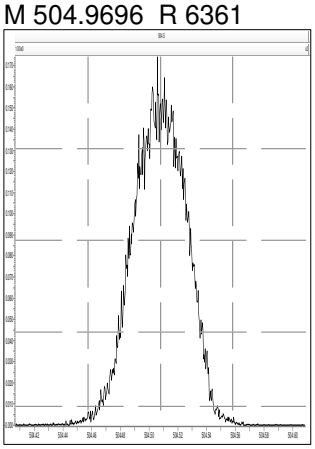

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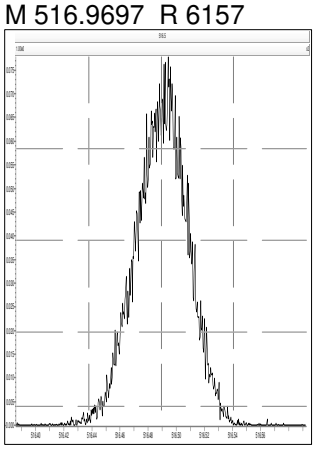

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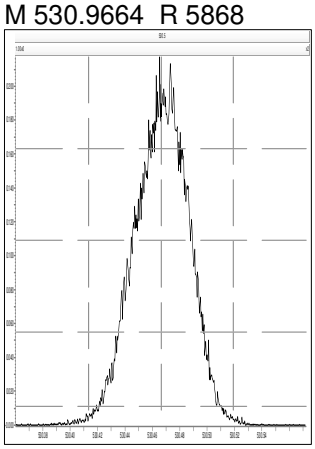

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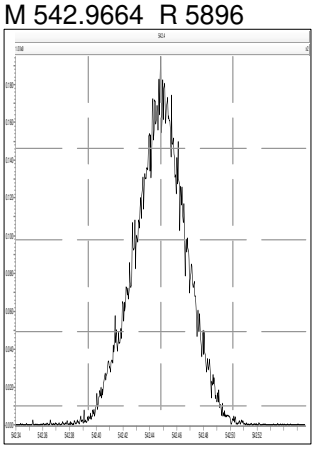

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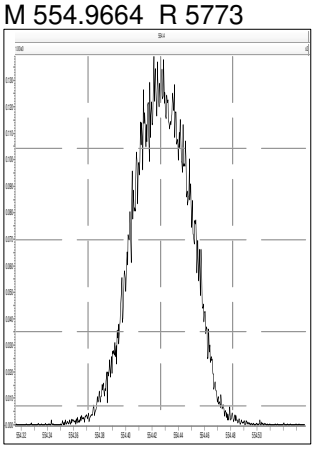

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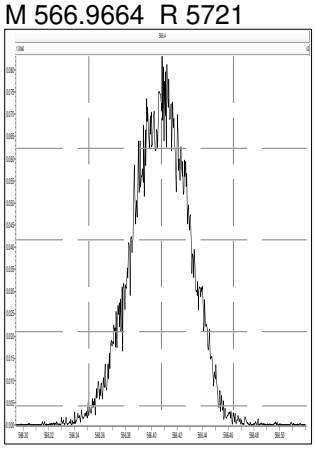

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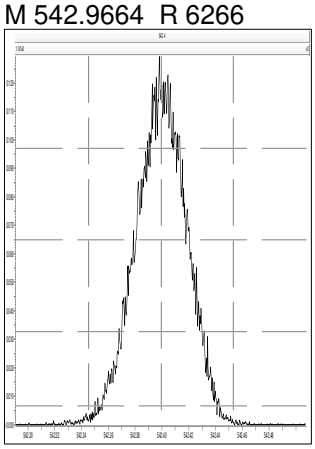

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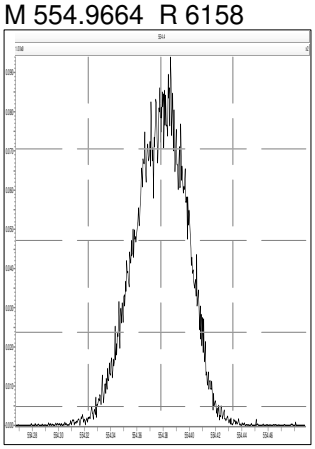

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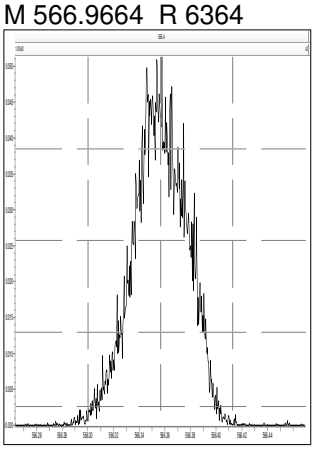

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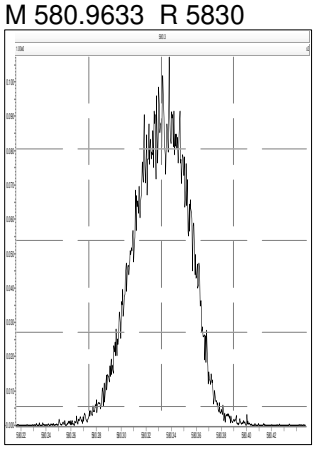

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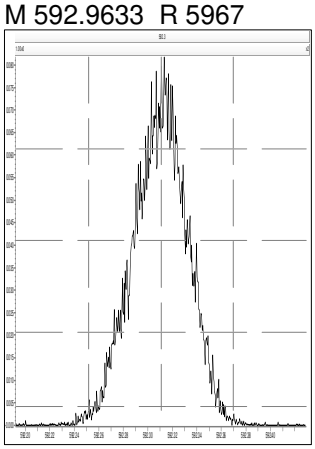

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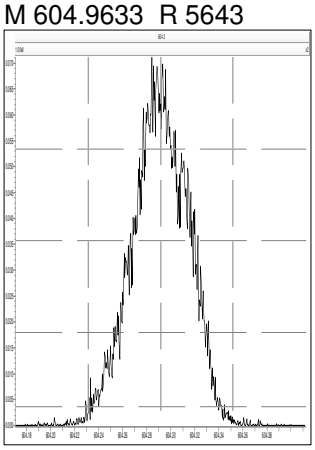

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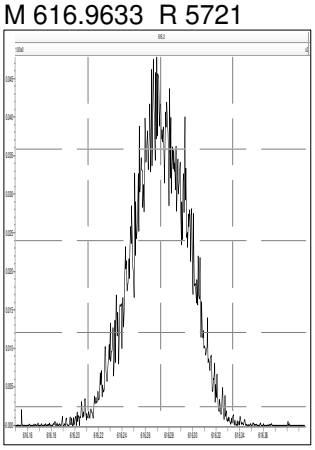

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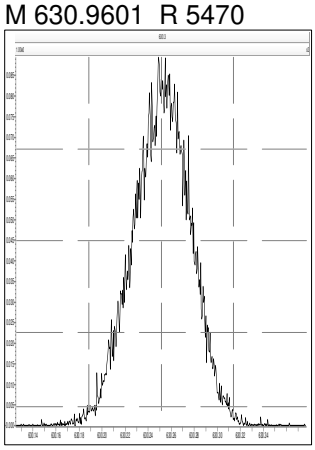

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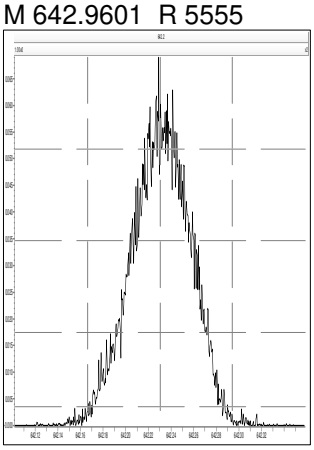

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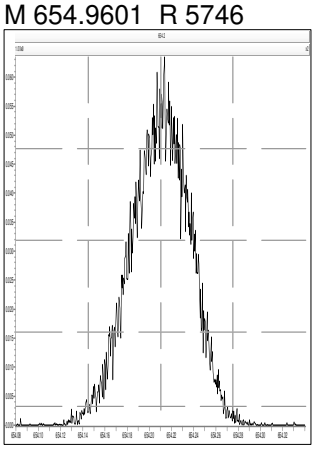

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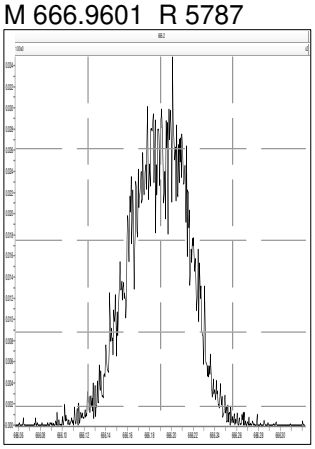

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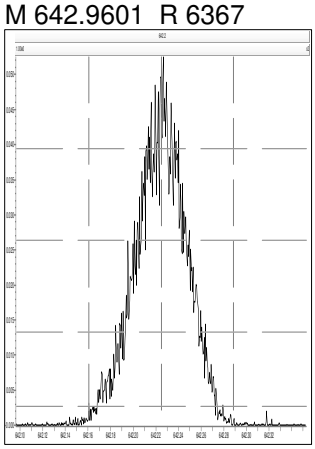

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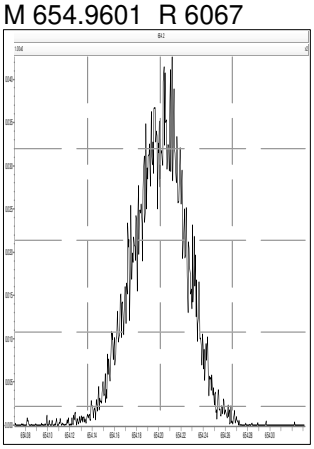

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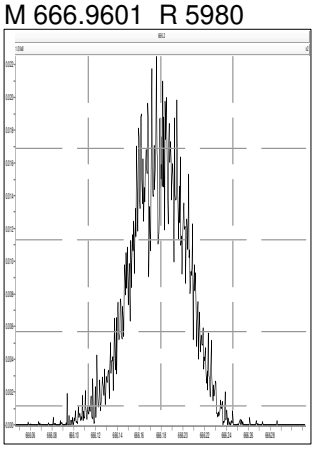

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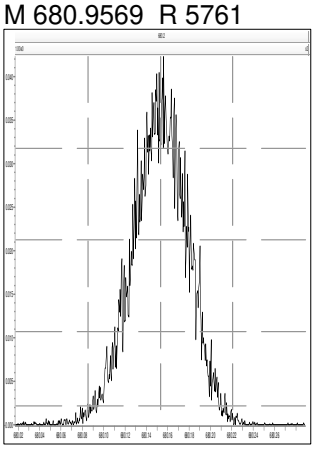

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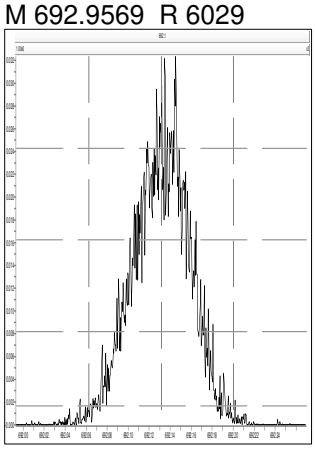

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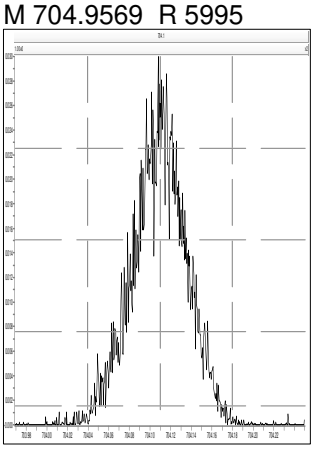

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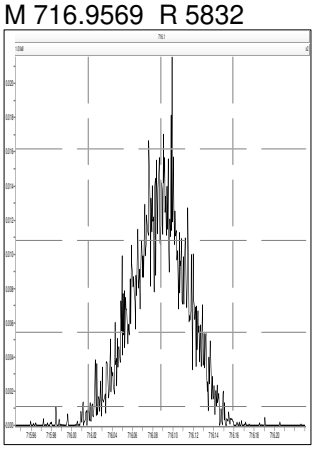

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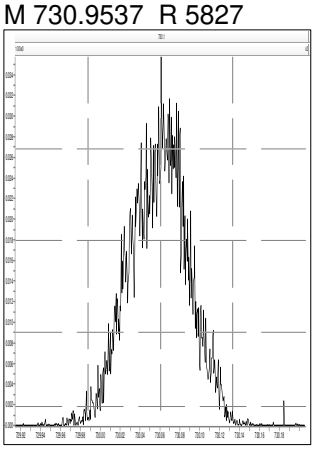

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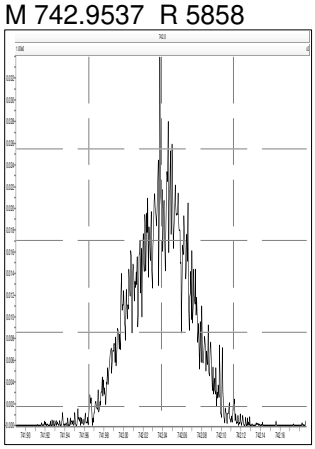
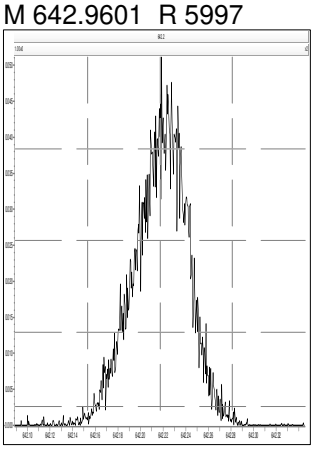
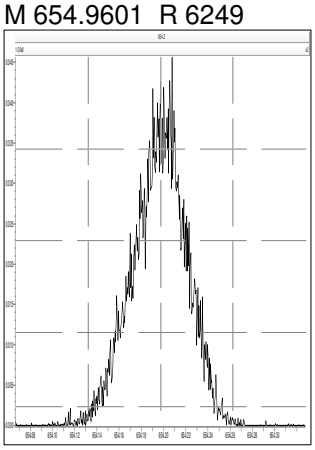


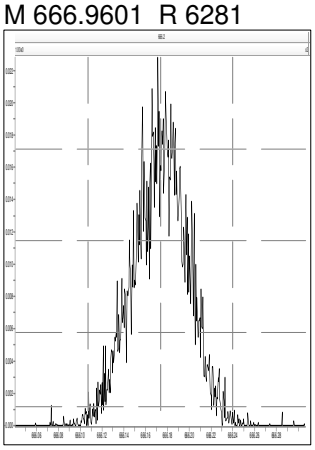
M 642.9601 R 5997



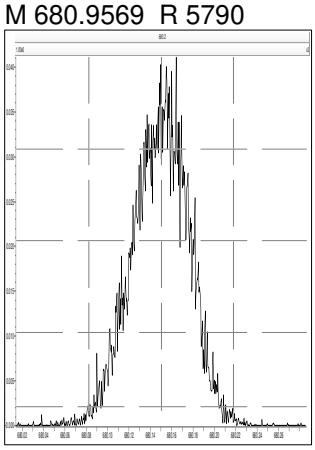
M 654.9601 R 6249



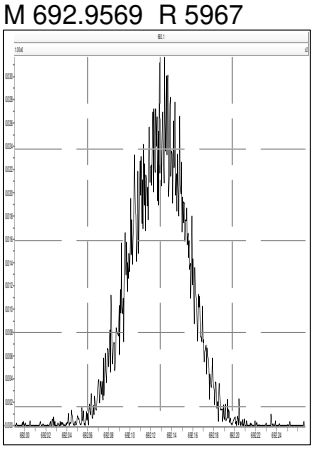
M 666.9601 R 6281



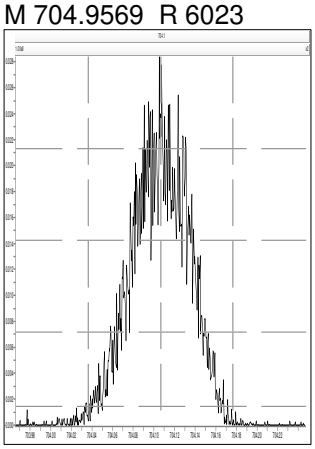
M 680.9569 R 5790



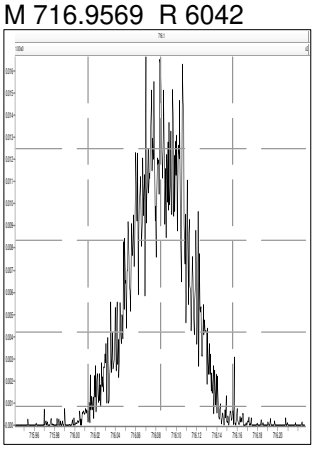
M 692.9569 R 5967



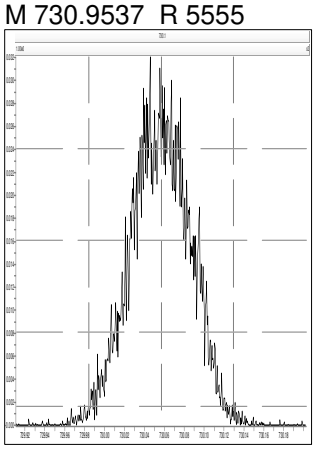
M 704.9569 R 6023



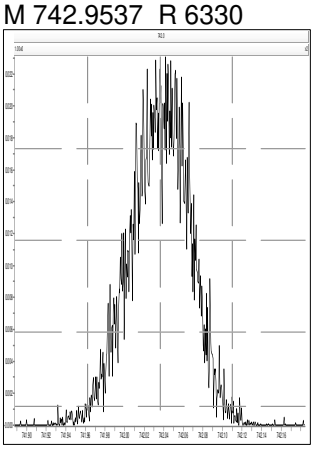
M 716.9569 R 6042



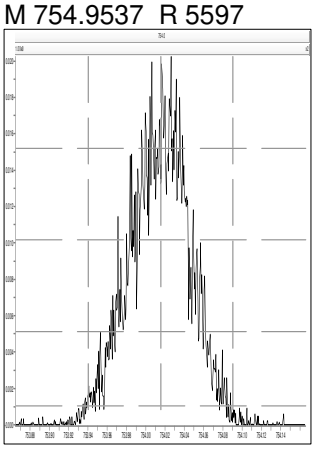
M 730.9537 R 5555



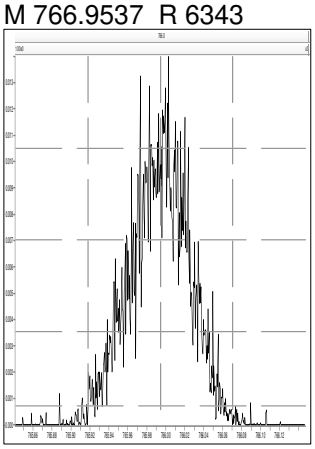
M 742.9537 R 6330



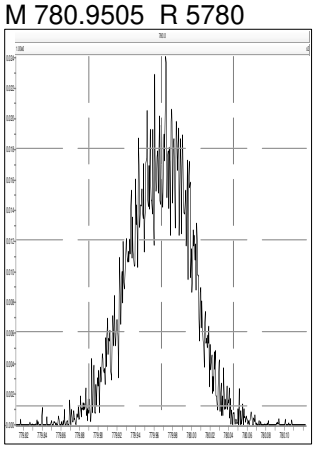
M 754.9537 R 5597



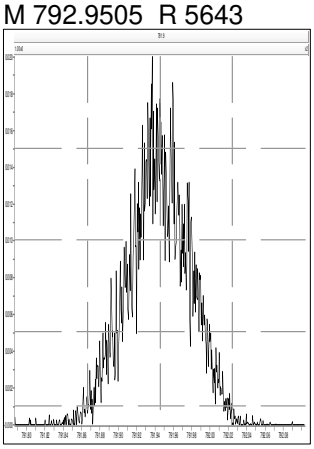
M 766.9537 R 6343



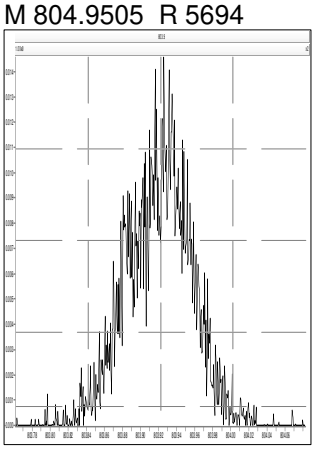
M 780.9505 R 5780



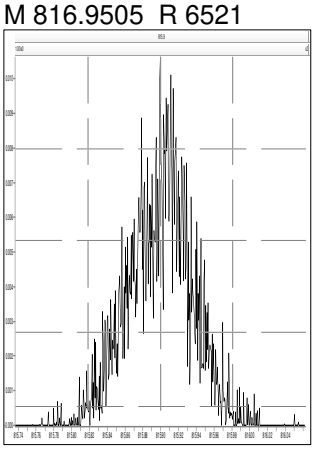
M 792.9505 R 5643



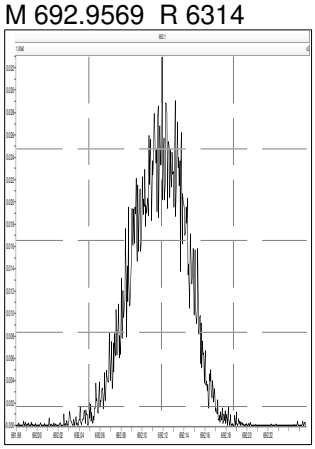
M 804.9505 R 5694



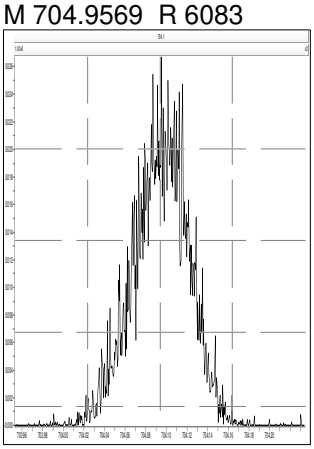
M 816.9505 R 6521



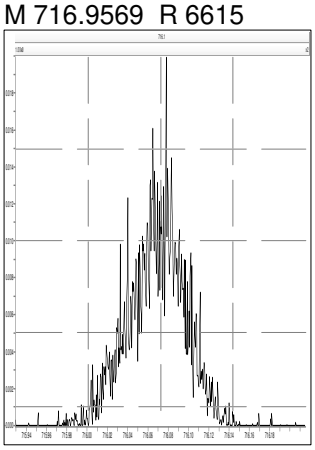
M 692.9569 R 6314



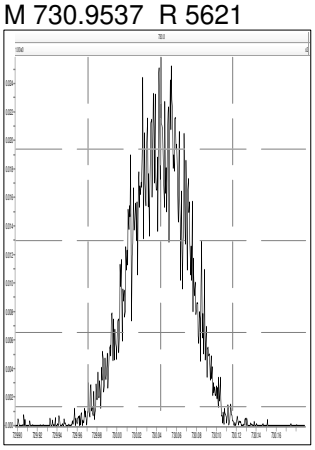
M 704.9569 R 6083



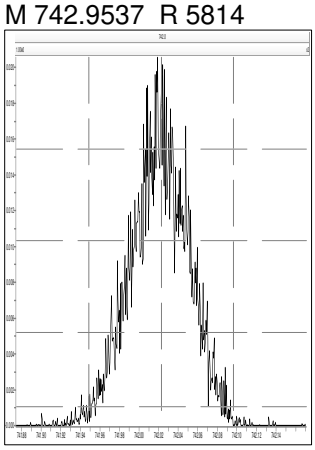
M 716.9569 R 6615



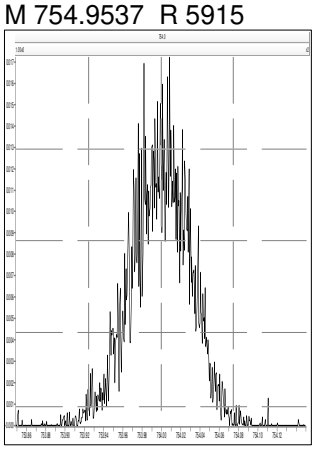
M 730.9537 R 5621



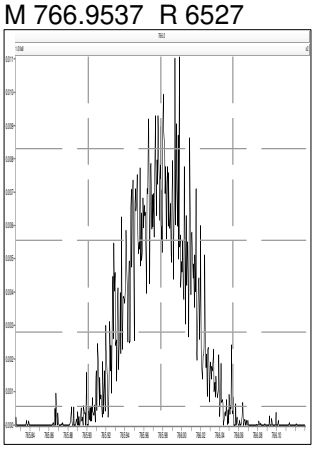
M 742.9537 R 5814



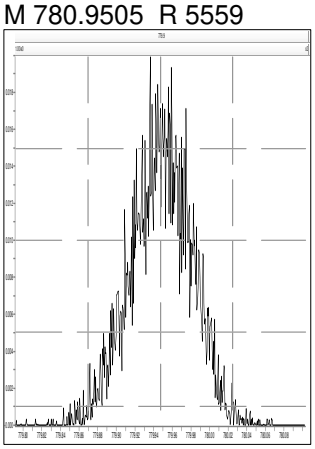
M 754.9537 R 5915



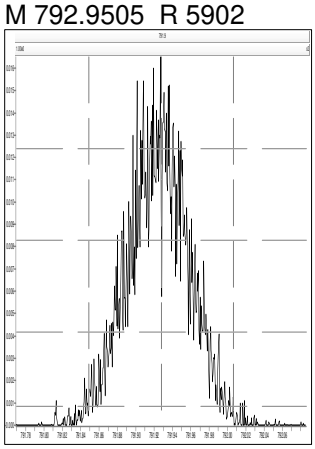
M 766.9537 R 6527



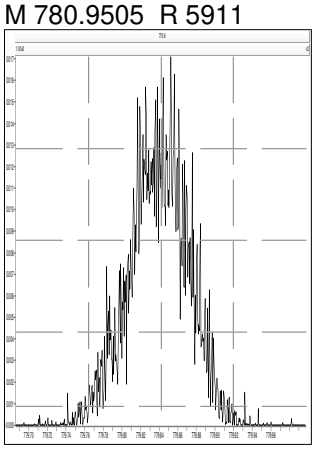
M 780.9505 R 5559



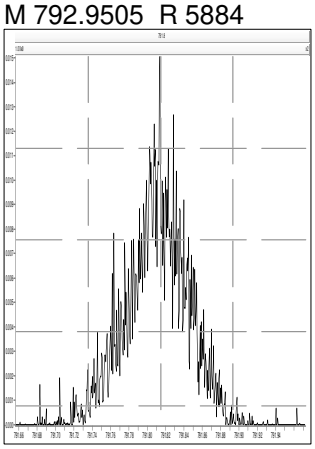
M 792.9505 R 5902



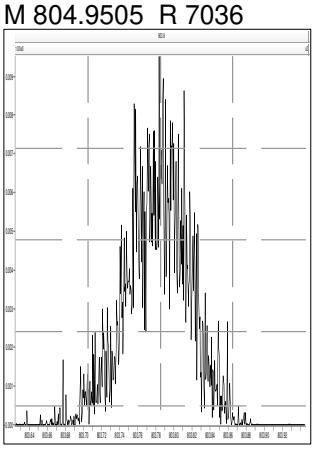
M 780.9505 R 5911



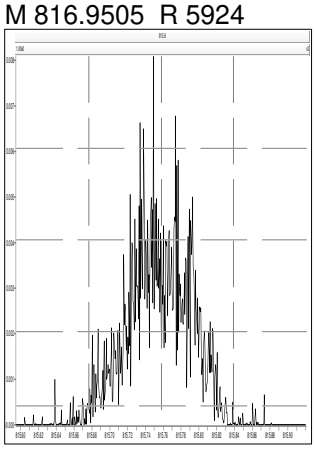
M 792.9505 R 5884



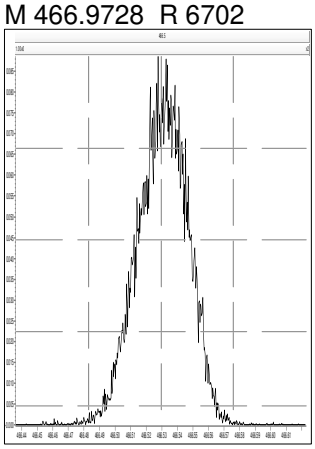
M 804.9505 R 7036



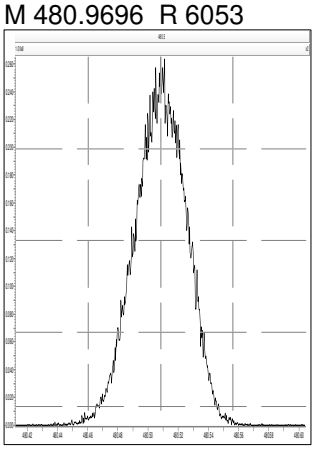
M 816.9505 R 5924



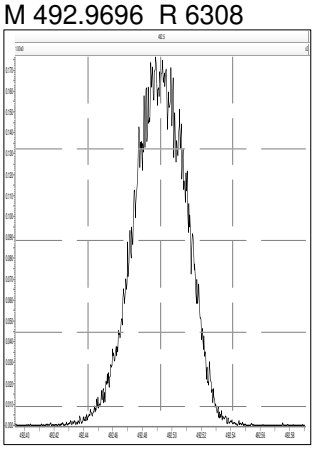
M 466.9728 R 6702



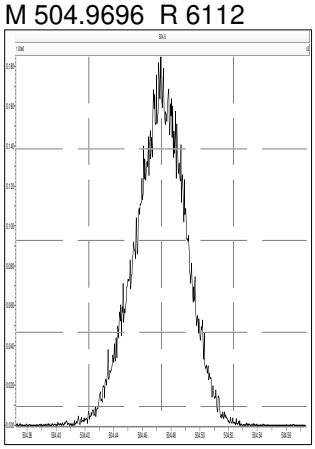
M 480.9696 R 6053



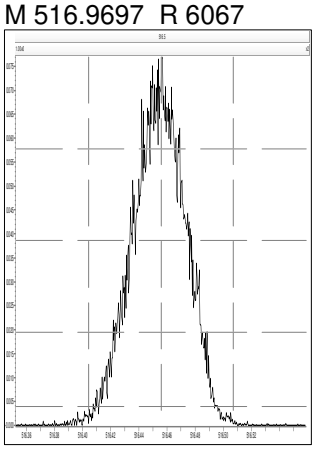
M 492.9696 R 6308



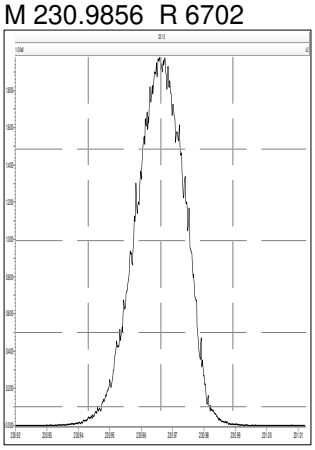
M 504.9696 R 6112



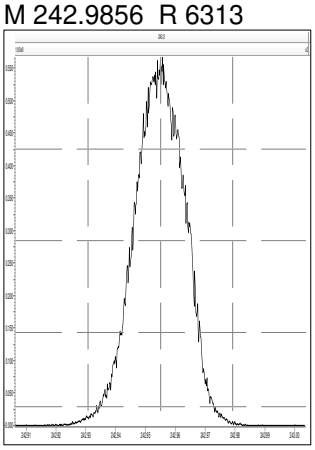
M 516.9697 R 6067



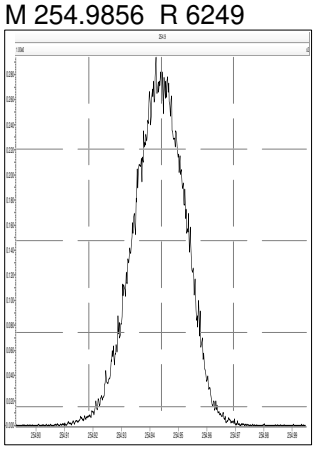
M 230.9856 R 6702



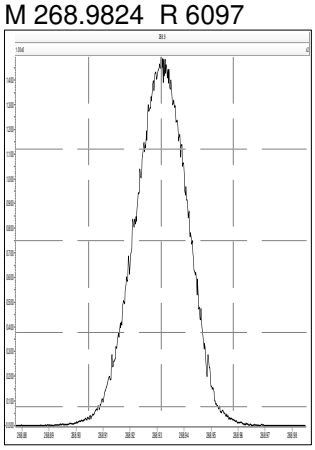
M 242.9856 R 6313



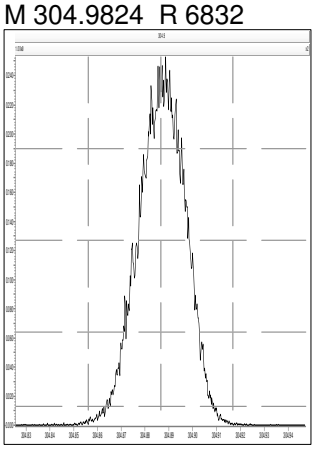
M 254.9856 R 6249



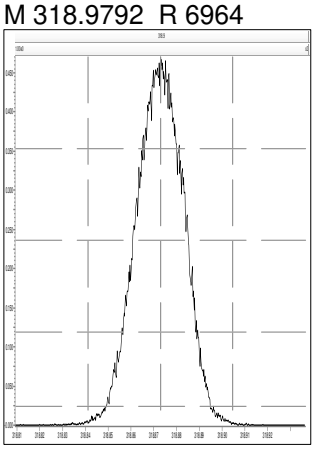
M 268.9824 R 6097



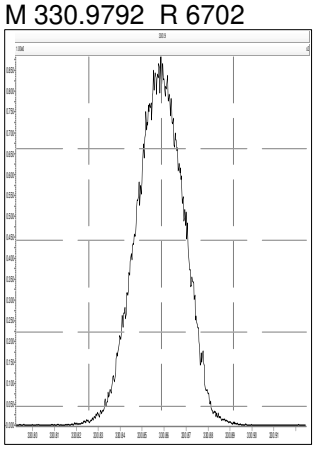
M 304.9824 R 6832



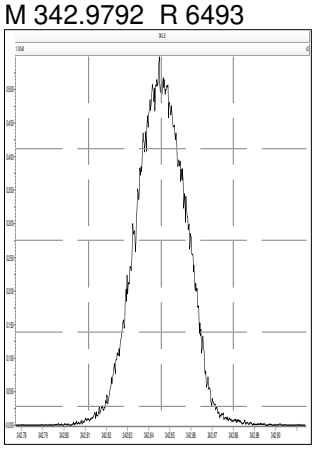
M 318.9792 R 6964



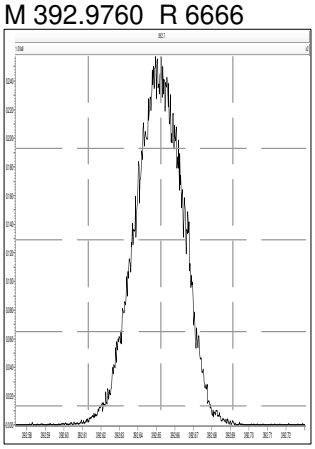
M 330.9792 R 6702



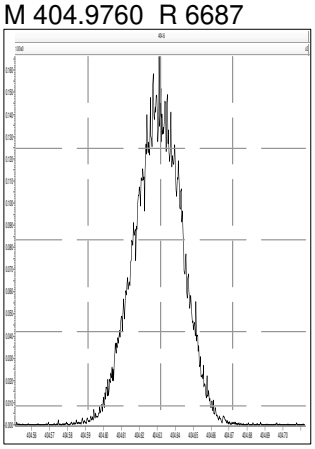
M 342.9792 R 6493



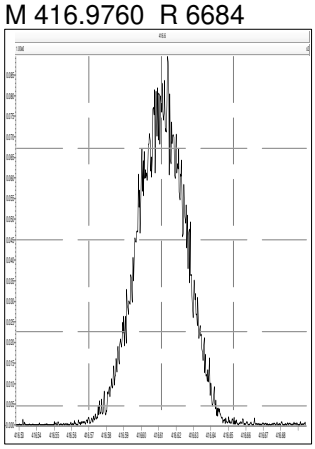
M 392.9760 R 6666



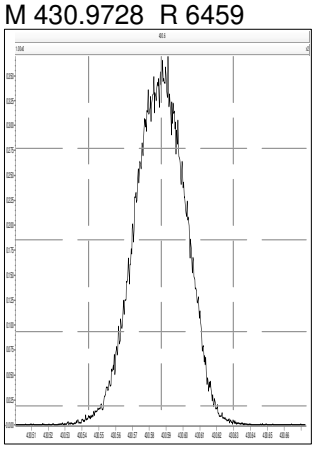
M 404.9760 R 6687



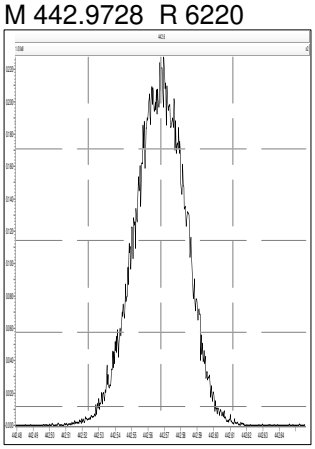
M 416.9760 R 6684



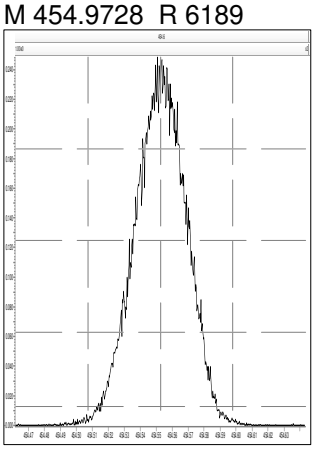
M 430.9728 R 6459



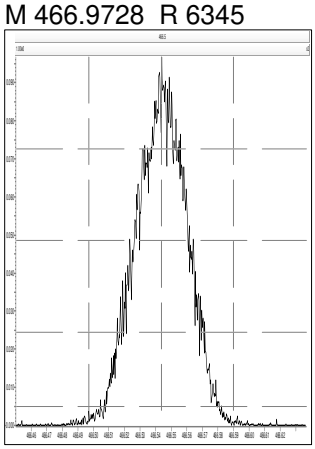
M 442.9728 R 6220



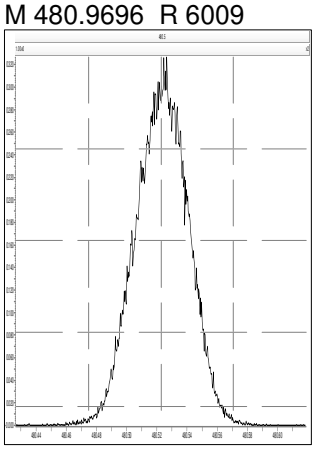
M 454.9728 R 6189



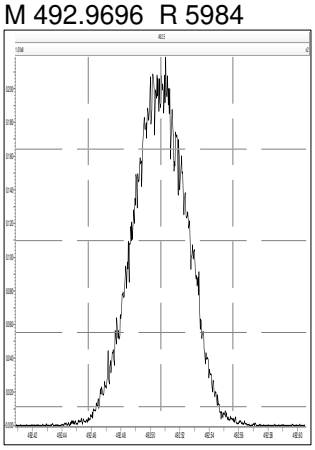
M 466.9728 R 6345



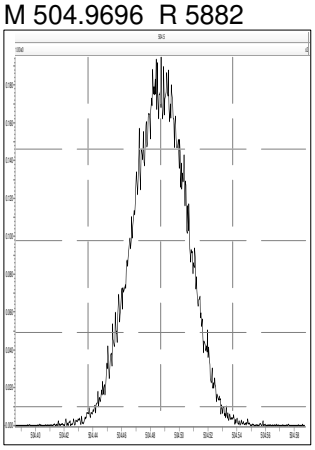
M 480.9696 R 6009



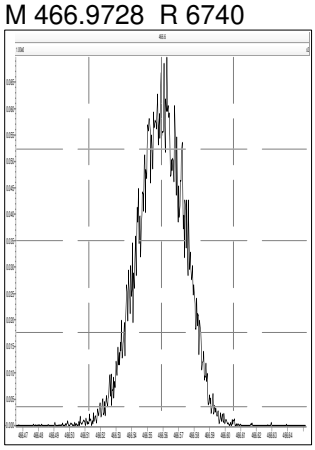
M 492.9696 R 5984



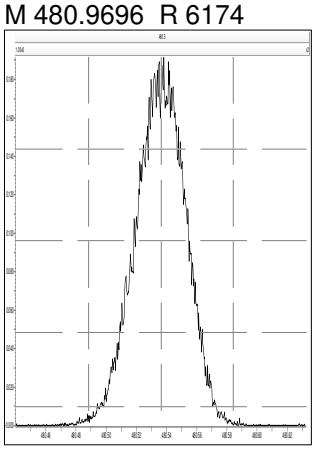
M 504.9696 R 5882



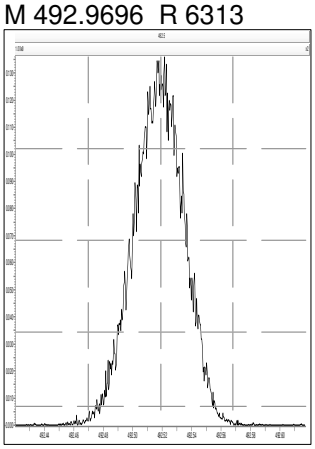
M 466.9728 R 6740



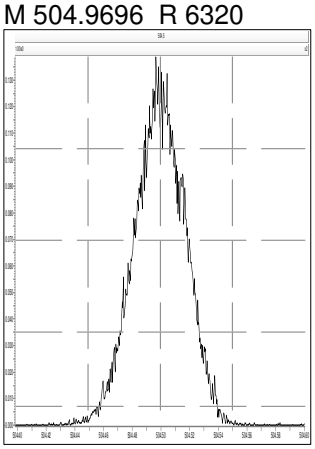
M 480.9696 R 6174



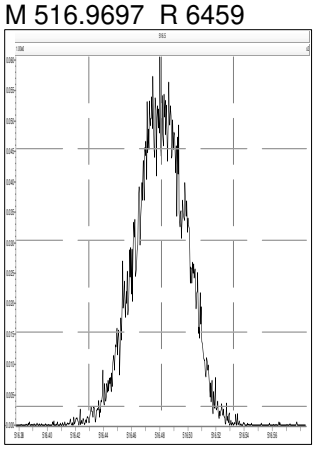
M 492.9696 R 6313



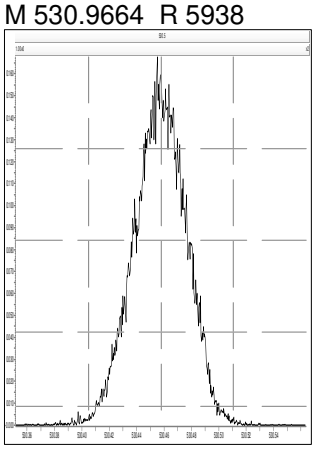
M 504.9696 R 6320



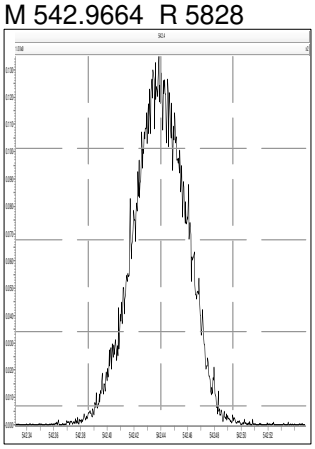
M 516.9697 R 6459



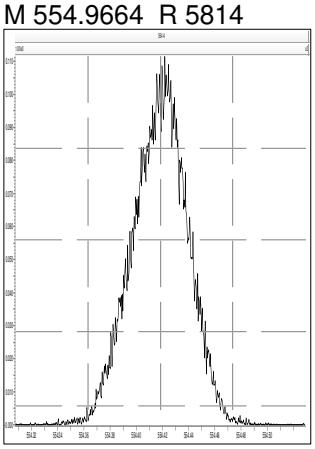
M 530.9664 R 5938



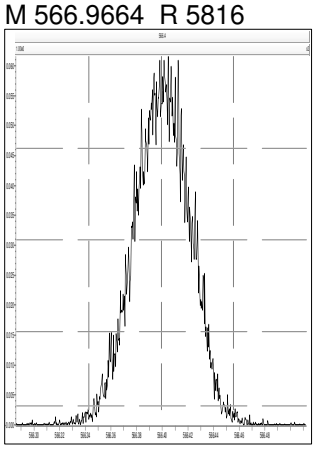
M 542.9664 R 5828



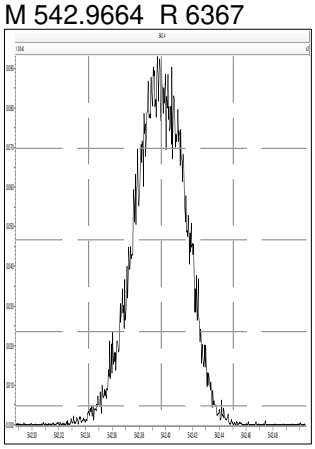
M 554.9664 R 5814



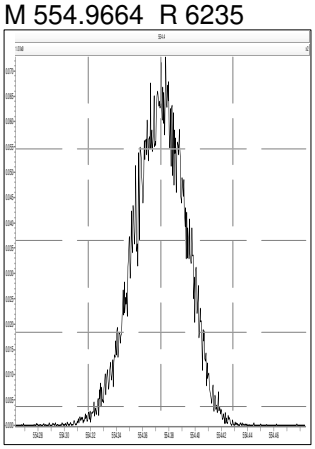
M 566.9664 R 5816



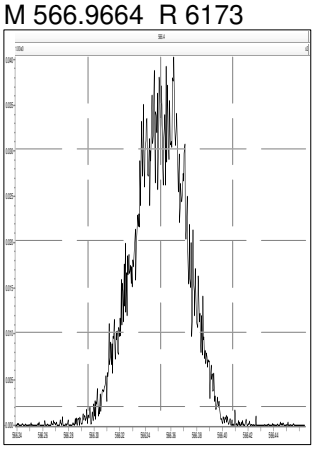
M 542.9664 R 6367



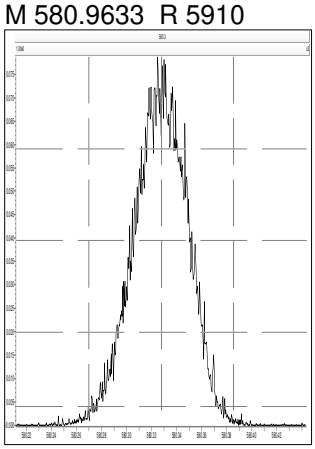
M 554.9664 R 6235



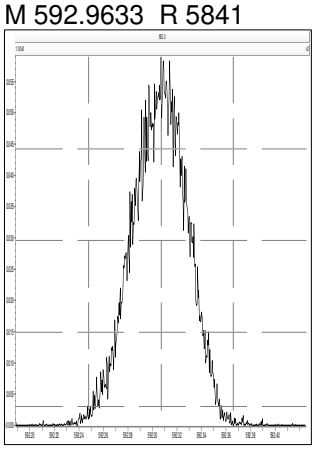
M 566.9664 R 6173



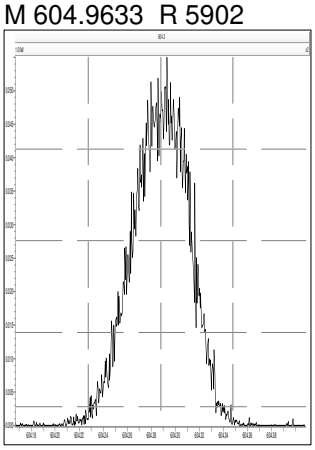
M 580.9633 R 5910



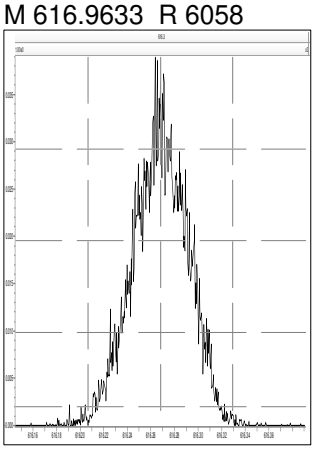
M 592.9633 R 5841



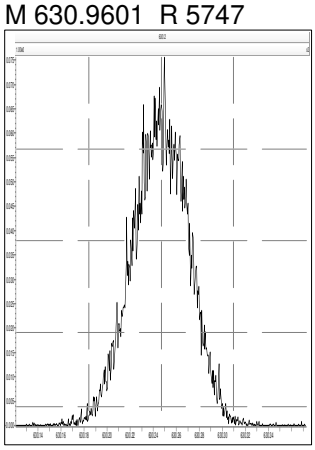
M 604.9633 R 5902



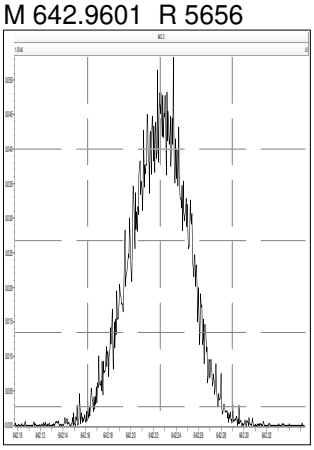
M 616.9633 R 6058



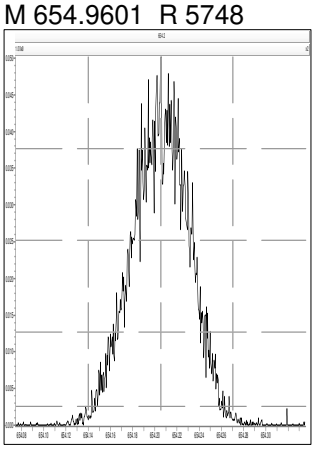
M 630.9601 R 5747



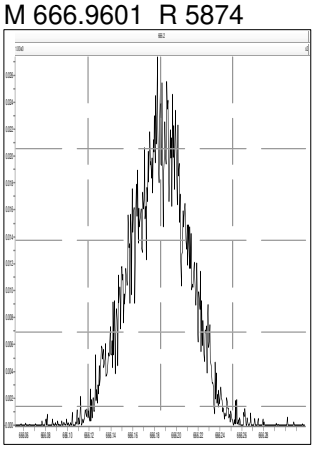
M 642.9601 R 5656



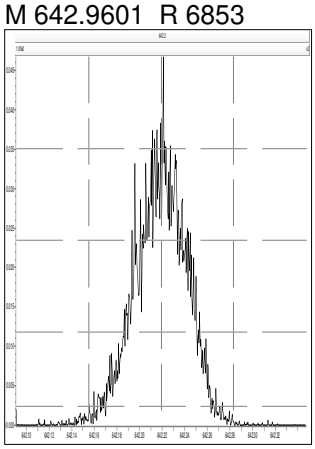
M 654.9601 R 5748



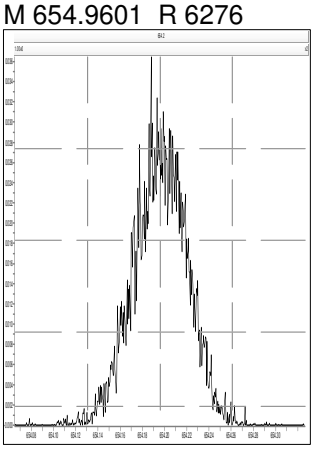
M 666.9601 R 5874



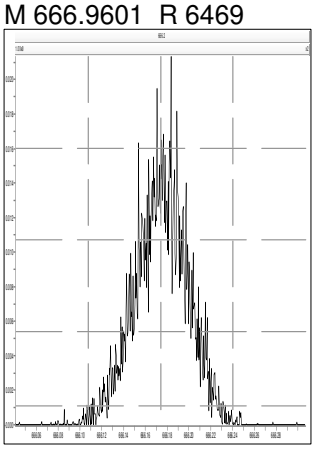
M 642.9601 R 6853



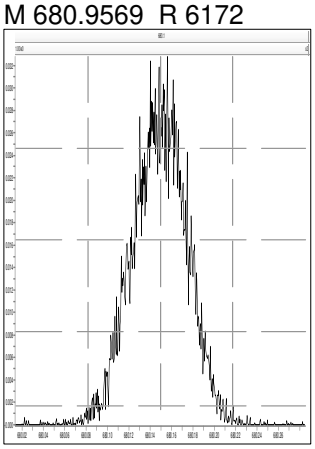
M 654.9601 R 6276



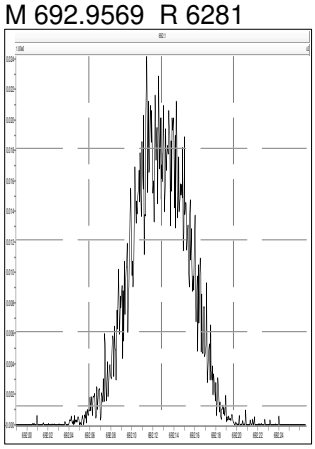
M 666.9601 R 6469



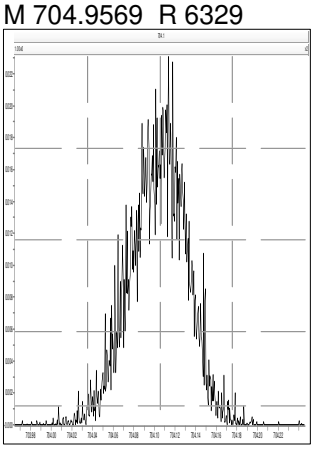
M 680.9569 R 6172



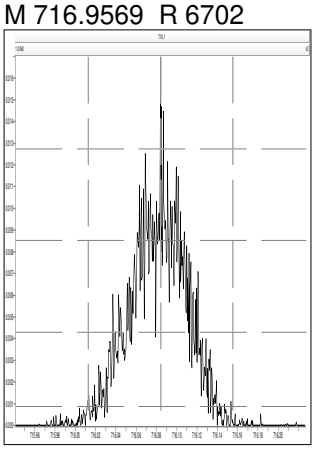
M 692.9569 R 6281



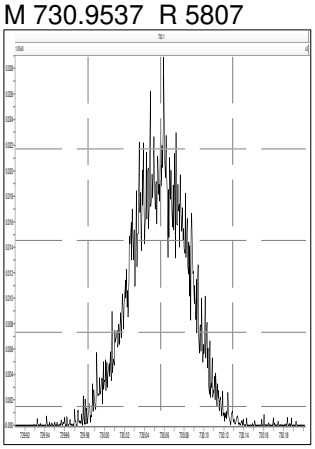
M 704.9569 R 6329



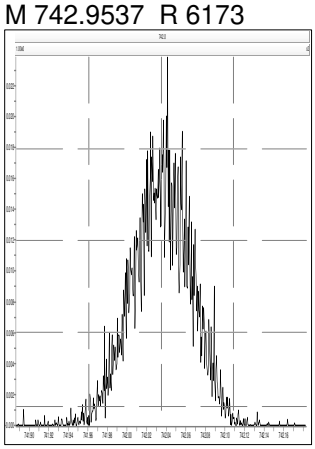
M 716.9569 R 6702



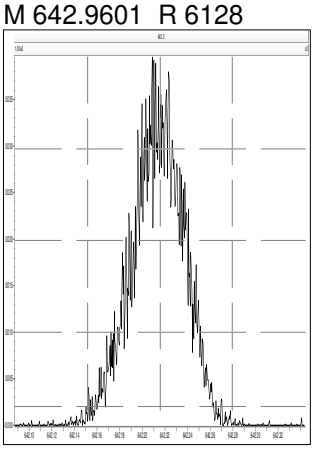
M 730.9537 R 5807



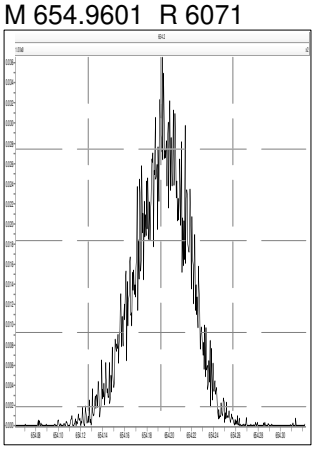
M 742.9537 R 6173



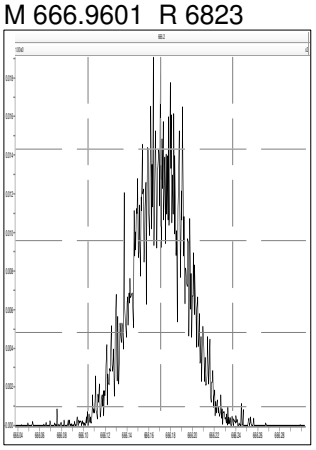
M 642.9601 R 6128



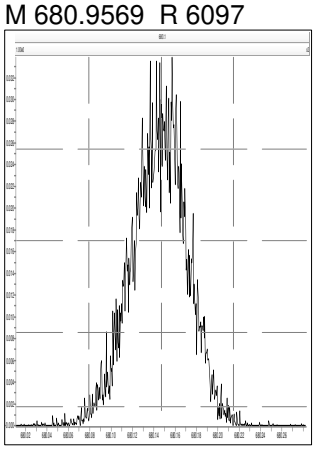
M 654.9601 R 6071



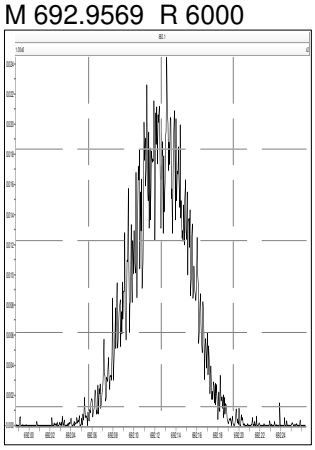
M 666.9601 R 6823



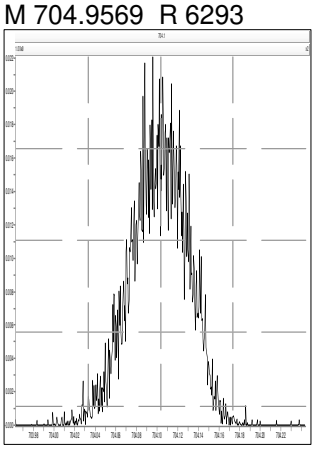
M 680.9569 R 6097



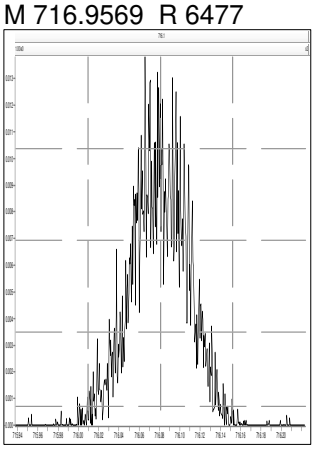
M 692.9569 R 6000



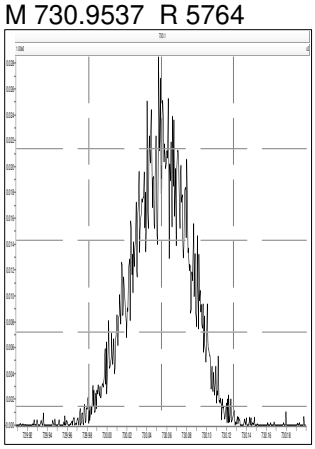
M 704.9569 R 6293



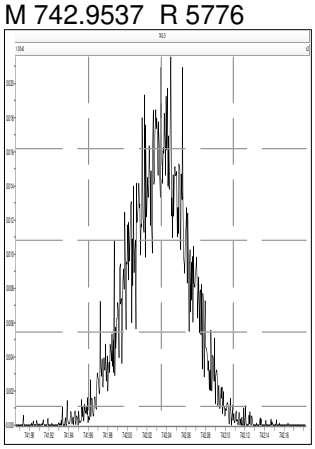
M 716.9569 R 6477



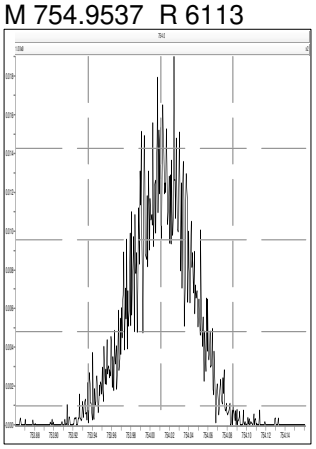
M 730.9537 R 5764



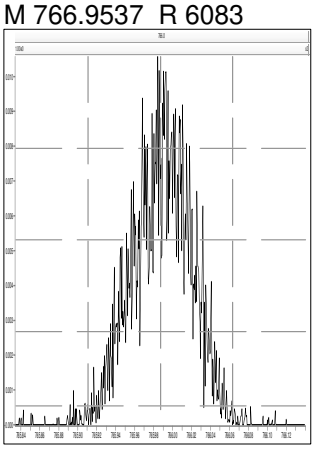
M 742.9537 R 5776



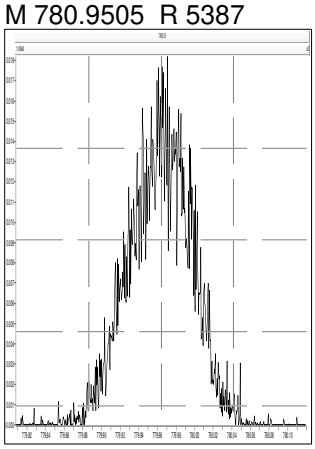
M 754.9537 R 6113



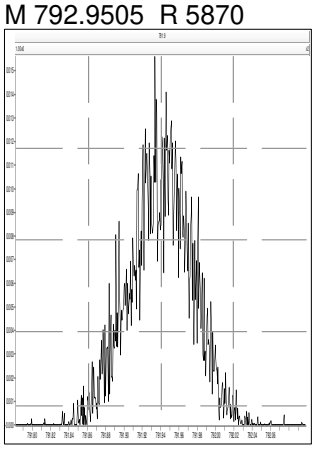
M 766.9537 R 6083



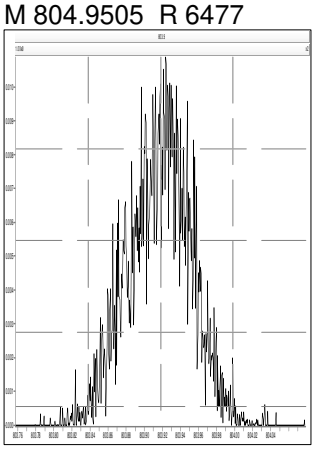
M 780.9505 R 5387



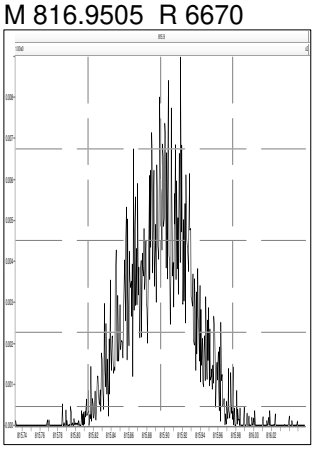
M 792.9505 R 5870



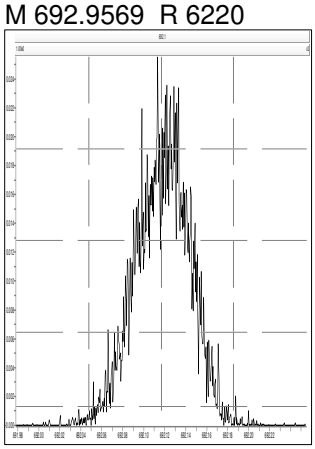
M 804.9505 R 6477



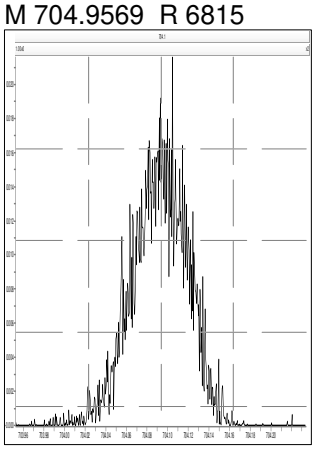
M 816.9505 R 6670



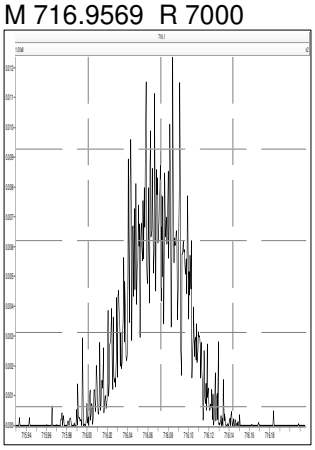
M 692.9569 R 6220



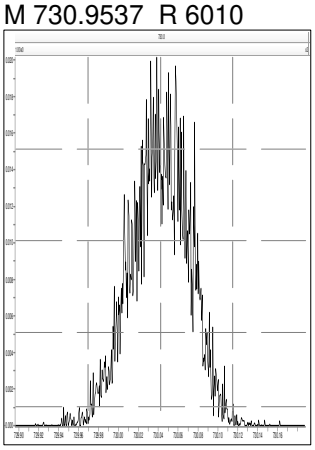
M 704.9569 R 6815



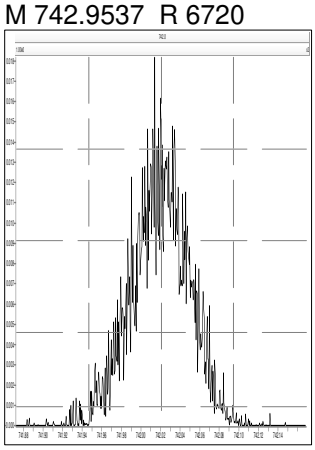
M 716.9569 R 7000



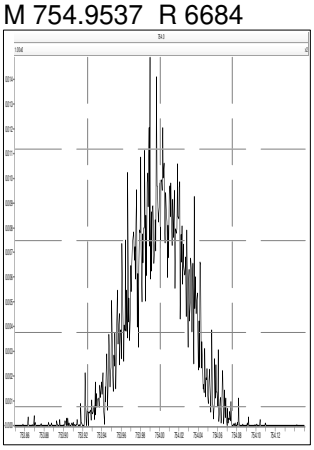
M 730.9537 R 6010



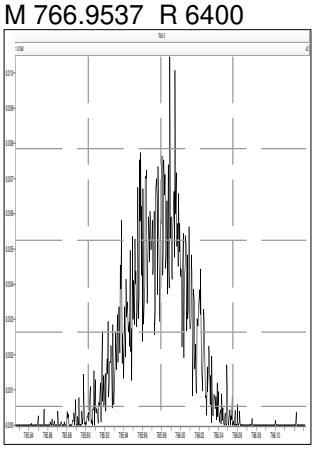
M 742.9537 R 6720



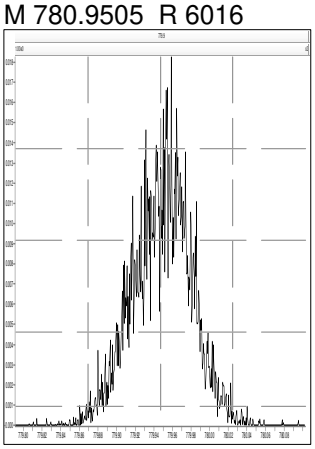
M 754.9537 R 6684



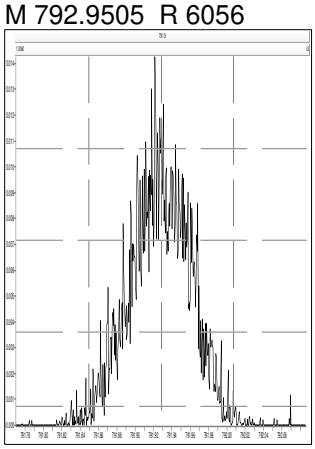
M 766.9537 R 6400



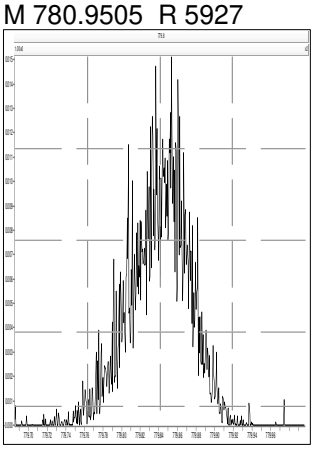
M 780.9505 R 6016



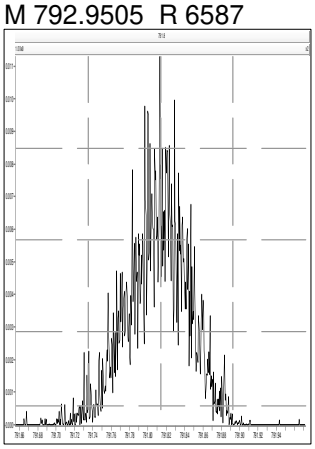
M 792.9505 R 6056



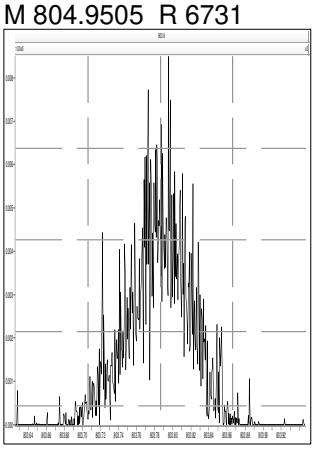
M 780.9505 R 5927



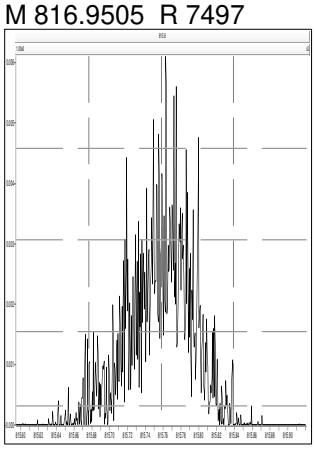
M 792.9505 R 6587



M 804.9505 R 6731



M 816.9505 R 7497



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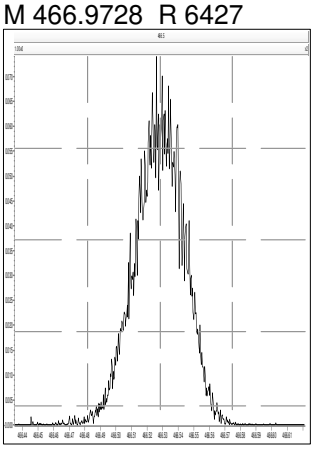

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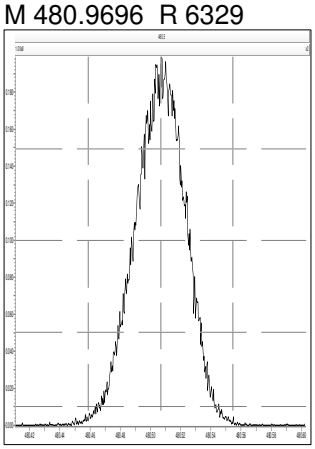
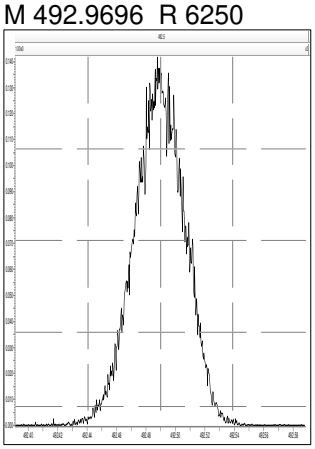
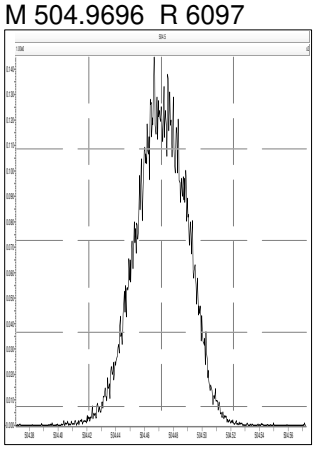


M 492.9696 R 6250



M 504.9696 R 6097



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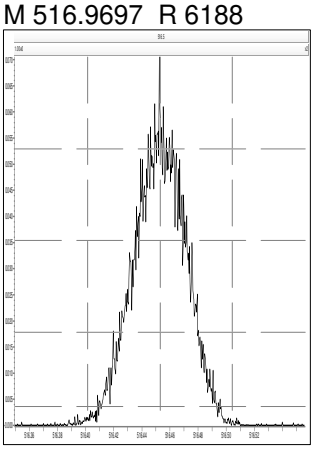

Exact Scientific Services, Inc.

1355 Pacific Place
Suite 101
Ferndale, WA 98248

Phone: (360) 733-1205
Fax: (888) 818-2978
Email: lab@exactscientific.com

Certificate of Analysis

Client: City of Bellingham Public Works/Operations/Lab
200 Mckenzie Ave
Belingham, WA 98225

Phone: 360-778-7873

Email: mevans@cob.org

Invoice Number: 21-18578
PO Number:
Received Date: 11/2/2021
Approved By:
Approved Date: 11/3/2021
Project Name:

Lab #: 75219 **Sample: Final Effluent** **Sample Date: 11/2/2021**

Analyte	Results	Units	Detection Limit	Method	Analyst	Date Analyzed
Molecular Biology						
SARS-CoV-2	**Not Detected**	P/A		ESS_6.2.51	cjs	11/3/2021
Virus Copies	**N/A**	per 1 Liter		ESS_6.2.51	cjs	11/3/2021
ct Value N1/N2	**NA/NA**	PSU		ESS_6.2.51	cjs	11/3/2021

Exact Scientific Services is an ISO 17025 ANAB Accredited Laboratory
I = ISO 17025 accredited method
ND = Not detected above the listed detection limit
MM = Modified Method
RR = Revised Result

This report and its results only relate to the specific sample(s) tested as received, and is for exclusive use of the customer named above and shall not be reproduced except in full.

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Certificate of Analysis

Client: City of Bellingham Public Works/Operations/Lab
200 Mckenzie Ave
Belingham, WA 98225

Phone: 360-778-7873

Email: mevans@cob.org

Invoice Number: 21-18604
PO Number:
Received Date: 11/2/2021
Approved By:
Approved Date: 11/3/2021
Project Name:

Lab #: 75283 **Sample: Incinerator Feed** **Sample Date: 11/2/2021**

Analyte	Results	Units	Detection Limit	Method	Analyst	Date Analyzed
Molecular Biology						
SARS-CoV-2	**Not Detected**	P/A		ESS_6.2.51.a	cjs	11/3/2021

Exact Scientific Services is an ISO 17025 ANAB Accredited Laboratory
I = ISO 17025 accredited method
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